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**A COMPILATION OF
STATIC STABILITY AND FIN LOADS DATA
FOR SLENDER BODY MISSILE MODELS
WITH AND WITHOUT TAIL FINS AND WINGS**

VOLUME III
(APPENDIX F)
(TEST NUMBER 6)

**PROPULSION WIND TUNNEL FACILITY
ARNOLD ENGINEERING DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
ARNOLD AF STATION, TENNESSEE 37389**

March 1976

Final Report for Period March 1968 – March 1973

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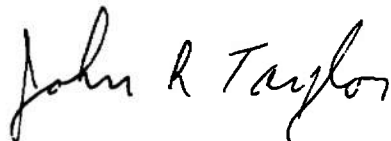
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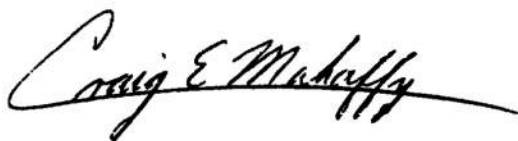
APPROVAL STATEMENT

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



JOHN R. TAYLOR
Analysis & Evaluation
Division
Directorate of Test



CRAIG E. MAHAFFY
Colonel, USAF
Director of Test

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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18 SUPPLEMENTARY NOTES Available in DDC; complete report consists of five volumes.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Martin Generalized Research Model slender bodies tables (data) static stability guided missiles fins models aerodynamic loading wing body configurations control surfaces (Continued)		
20 ABSTRACT (Continue on reverse side if necessary and identify by block number) This document contains a compilation of aerodynamic data for the Martin Generalized Research Model, which is a composite of several body, wing, and tail fin configurations typical of missile applications. The model variations included five body configurations, three wing configurations at various body locations, and 15 tail fin configurations. Static stability and tail fin loads data are presented in tabulated and plotted form for a Mach number range		

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19. KEY WORDS (Continued)

deflection
transonic flow
supersonic flow
wind tunnel tests

20. ABSTRACT (Continued)

from 0.20 to 4.63 over an angle-of-attack range from -6 to 60 deg and a sideslip angle range from -20 to 20 deg for the body-alone configurations, body-wing configurations, and the body-wing-tail fin configurations. In addition, the tail fin configurations were tested using the reflection plane technique, and the resulting fin loads data are presented for a Mach number range of 0.80 to 2.16 over an angle-of-attack range from 0 to 210 deg. Volume III contains the tabulated data obtained during Test Number 6 at the Naval Ship Research and Development Center.

PREFACE

The data presented herein were compiled by the Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), under the sponsorship of the Air Force Armament Laboratory (AFATL), Eglin Air Force Base, Florida. Seven different tests were conducted by three organizations: ARO, Inc. (a subsidiary of Sverdrup & Parcel and Associates, Inc.), contract operator of the AEDC, AFSC, Arnold Air Force Station, Tennessee; Naval Ship Research and Development Center (NSRDC), Bethesda, Maryland; and Langley Research Center (LRC), National Aeronautics and Space Administration (NASA), Langley Air Force Base, Virginia. The data were compiled under ARO Project No. P34A-37A. The author of this report was G. R. Gomillion, ARO, Inc. The manuscript (ARO Control No. ARO-PWT-TR-75-88) was submitted for publication on June 20, 1975.

This volume contains the tabulated data that were obtained during Test Number 6 that was conducted in the 7 x 10 Foot Transonic Wind Tunnel at NSRDC during October 1968. As an aid in the use of these data, the table which lists the part numbers for the tabulated data from Test Number 6 and the general list of nomenclature are repeated from Volume I at the end of this volume.

APPENDIX F
TEST 6

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.085	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP	
1	-2.76	0.0	-0.3987	1.1012	0.0679	-0.1200	-0.0050	0.1519	-2.7616	
2	-2.75	0.01	-0.4237	1.1222	0.1192	-0.1269	-0.0040	0.1570	-2.6482	
3	-1.51	0.0	-0.2305	0.6126	0.0394	-0.1121	-0.0040	0.1574	-2.6581	
4	-0.92	0.0	-0.1274	0.3373	0.0149	-0.0679	-0.0040	0.1569	-2.6480	
5	-0.40	0.0	-0.0410	0.1324	0.0192	-0.0699	-0.0060	0.1547	-3.2293	
6	0.11	-0.01	0.0216	-0.0222	0.0664	-0.2349	-0.0020	0.1626	-1.0296	
7	0.65	-0.01	0.0901	-0.2031	0.0169	-0.1636	-0.0050	0.1653	-2.2546	
8	1.14	-0.01	0.1705	-0.3856	-0.0040	-0.1494	-0.0030	0.1629	-2.2622	
9	1.64	-0.01	0.2440	-0.5925	-0.0043	-0.0540	-0.0030	0.1624	-2.4287	
10	2.12	-0.01	0.3403	-0.8503	0.1165	-0.1011	-0.0040	0.1638	-2.4990	
11	2.61	-0.04	0.4383	-1.0416	-0.0132	-0.2005	-0.0020	0.1625	-2.3763	
12	3.08	-0.03	0.5075	-1.2655	-0.0116	-0.1027	-0.0030	0.1590	-2.5328	
13	3.56	-0.03	0.5918	-1.5225	0.0044	-0.1261	-0.0040	0.1627	-2.5725	
14	4.02	-0.03	0.6881	-1.7612	0.0411	-0.1465	-0.0060	0.1592	-2.5595	
15	4.50	-0.03	0.7840	-2.0595	0.0775	-0.1525	-0.0010	0.1553	-2.6269	
16	4.92	-0.04	0.8655	-2.2615	0.0115	-0.0801	-0.0010	0.1596	-2.6130	
17	5.39	-0.03	0.9473	-2.4430	0.0442	-0.1069	-0.0010	0.1601	-2.5790	
18	5.83	-0.05	1.0236	-2.6618	-0.0054	-0.1864	-0.0030	0.1638	-2.6035	
19	6.26	-0.04	1.1034	-2.8685	0.0294	-0.1781	-0.0060	0.1666	-2.5998	
20	6.71	-0.03	1.1557	-3.0119	0.0470	-0.2628	-0.0020	0.1692	-2.6000	
21	7.15	-0.04	1.2327	-3.1866	0.0681	-0.2343	-0.0020	0.1691	-2.5866	
22	7.60	-0.04	1.2865	-3.3249	0.0641	-0.1957	-0.0040	0.1740	-2.5844	
23	8.03	-0.04	1.3411	-3.4394	0.0292	-0.1219	-0.0050	0.1764	-2.5645	
24	8.46	-0.04	1.3677	-3.4306	0.0849	-0.1948	-0.0160	0.1841	-2.5083	
25	8.87	-0.03	1.4038	-3.3592	0.0319	-0.1466	-0.0070	0.1894	-2.3929	
26	9.29	-0.04	1.4026	-3.2655	0.0157	-0.2170	-0.0030	0.1977	-2.3281	
27	9.72	-0.03	1.4400	-3.3518	0.1063	-0.2188	-0.0060	0.2018	-2.3276	
28	10.11	-0.03	1.4666	-3.3671	0.0138	-0.1093	-0.0050	0.2071	-2.2958	
29	10.52	-0.06	1.5190	-3.3724	0.0161	-0.1545	-0.0060	0.2147	-2.2202	
30	10.89	-0.05	1.5843	-3.5248	0.0882	-0.1745	-0.0100	0.2140	-2.2249	
31	11.28	-0.05	1.6411	-3.5694	0.0389	-0.1404	-0.0120	0.2091	-2.1750	
32	11.64	-0.05	1.7010	-3.7402	0.0585	-0.1759	-0.0130	0.2087	-2.1938	
33	12.00	-0.04	1.7660	-3.7922	0.2037	-0.2511	-0.0180	0.2076	-2.1474	
34	12.37	-0.06	1.8291	-3.9355	0.0450	-0.1590	-0.0130	0.2090	-2.1517	
35	12.73	-0.05	1.8934	-4.0125	0.0637	-0.1512	-0.0180	0.2080	-2.1193	
36	13.09	-0.08	1.9460	-4.1593	-0.0064	-0.2040	-0.0190	0.2068	-2.1373	
37	13.46	-0.06	2.0236	-4.2669	0.1270	-0.1416	-0.0250	0.2051	-2.1085	
38	13.82	-0.06	2.0836	-4.3779	0.0783	-0.1746	-0.0210	0.1991	-2.1011	
39	14.16	-0.09	2.1284	-4.4266	-0.0371	-0.2570	-0.0300	0.1915	-2.0798	
40	14.51	-0.08	2.1748	-4.5385	-0.0599	-0.1271	-0.0260	0.1897	-2.0869	
41	14.86	-0.08	2.2650	-4.6158	0.0333	-0.2026	-0.0300	0.1872	-2.0379	
42	15.25	-0.08	2.3843	-4.8208	-0.0183	-0.1514	-0.0340	0.1836	-2.0219	
43	15.67	-0.08	2.4443	-4.8708	-0.0121	-0.0820	-0.0220	0.1840	-1.9927	
44	16.20	-0.08	2.4913	-4.9166	0.0461	-0.1555	-0.0360	0.1819	-1.9735	
45	16.52	-0.08	2.5392	-5.0296	0.0522	-0.1811	-0.0350	0.1845	-1.9808	
46	16.87	-0.09	2.6036	-5.0648	-0.0635	-0.1721	-0.0210	0.1740	-1.9453	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.085	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP	
47	17.17	-0.07	2.6767	-5.1453	0.0900	-0.2320	-0.0530	0.1766	-1.9222	
48	17.50	-0.07	2.6756	-4.9617	0.1027	-0.3247	-0.0450	0.1813	-1.8544	
49	18.17	-0.09	2.7635	-4.9048	0.0477	-0.4517	-0.0540	0.1952	-1.7748	
50	18.52	-0.07	2.7972	-4.7450	0.1930	-0.4831	-0.0880	0.2024	-1.7142	
51	18.85	-0.09	2.7842	-4.6818	0.1147	-0.6875	-0.0870	0.2040	-1.6815	
52	19.18	-0.10	2.8263	-4.6928	0.0755	-0.6296	-0.0740	0.1982	-1.6604	
53	19.50	-0.09	2.8914	-4.7919	0.0277	-0.4207	-0.0460	0.1879	-1.6573	
54	19.83	-0.09	2.9333	-4.7186	0.0614	-0.3824	-0.0590	0.1833	-1.6086	
55	20.17	-0.08	2.9804	-4.7365	0.0470	-0.2428	-0.0470	0.1818	-1.5699	
56	20.51	-0.09	3.0102	-4.6982	0.0287	-0.2451	-0.0470	0.1787	-1.5608	
57	20.83	-0.09	3.1074	-4.9973	0.0430	-0.1092	-0.0620	0.1461	-1.6082	
58	21.16	-0.09	3.1117	-4.8313	0.0124	0.0256	-0.0440	0.1628	-1.5526	
59	21.47	-0.10	3.1671	-5.0038	-0.0560	-0.0986	-0.0470	0.1439	-1.5600	
60	21.78	-0.09	3.2587	-5.0361	0.0477	-0.1458	-0.0510	0.1453	-1.5454	
61	22.11	-0.10	3.2744	-4.9711	0.0479	-0.2100	-0.0470	0.1494	-1.5182	
62	22.38	-0.10	3.3524	-5.2382	0.0270	-0.0578	-0.0530	0.1288	-1.5625	
63	22.71	-0.11	3.3781	-5.2382	-0.0246	-0.1365	-0.0550	0.1375	-1.5507	
64	23.01	-0.11	3.4514	-5.3480	-0.0742	-0.0881	-0.0590	0.1149	-1.5495	
65	23.32	-0.10	3.4845	-5.3573	0.0087	-0.0252	-0.0560	0.1145	-1.5374	
66	23.62	-0.10	3.4644	-5.4351	0.0104	-0.1465	-0.0540	0.1147	-1.5688	
67	23.94	-0.09	3.5969	-5.5436	0.1227	-0.1318	-0.0510	0.0975	-1.5551	
68	24.25	-0.11	3.6403	-5.7054	-0.1285	0.1349	-0.0370	0.1017	-1.5673	
69	24.55	-0.10	3.6896	-5.6844	0.0855	-0.0487	-0.0470	0.0990	-1.5406	
70	24.86	-0.10	3.7633	-5.8396	-0.0060	-0.0408	-0.0540	0.0853	-1.5517	
71	25.16	-0.08	3.8772	-5.9170	0.2349	-0.2598	-0.0260	0.0787	-1.5261	
72	25.46	-0.09	3.9842	-5.9868	0.0170	-0.0178	-0.0490	0.0905	-1.5334	
73	25.73	-0.10	3.9434	-5.9807	0.1955	-0.6146	-0.0080	0.0742	-1.5166	
74	26.04	-0.10	3.9740	-5.9005	0.1402	-0.3612	-0.0180	0.0682	-1.4848	
75	26.32	-0.12	4.0356	-5.9128	0.1539	-0.7524	0.0250	0.0533	-1.4652	
76	26.64	-0.10	4.1257	-5.9039	-0.0353	0.1624	-0.0390	0.0530	-1.4510	
77	26.92	-0.11	4.1243	-5.9039	0.1259	-0.4172	0.0050	0.0390	-1.4315	
78	27.25	-0.11	4.2014	-5.7489	0.0405	-0.1462	-0.0060	0.0223	-1.3683	
79	27.53	-0.11	4.2606	-5.8305	0.0902	-0.2372	-0.0080	0.0118	-1.3686	
80	27.83	-0.10	4.2736	-5.7661	0.1457	-0.3489	0.0140	0.0003	-1.3492	
81	28.14	-0.10	4.3720	-5.8279	0.1093	-0.2180	0.0030	-0.0128	-1.3330	
82	28.44	-0.10	4.4299	-5.7789	0.2265	-0.4360	0.0510	-0.0336	-1.3045	
83	28.76	-0.11	4.4789	-5.7066	0.0533	-0.3236	0.0430	-0.0397	-1.2741	
84	29.06	-0.11	4.5456	-5.8079	0.1471	-0.3839	0.0510	-0.0499	-1.2777	
85	29.36	-0.11	4.5895	-5.7854	0.2297	-0.6365	0.0860	-0.0578	-1.2606	
86	29.66	-0.11	4.6999	-5.6430	0.1340	-0.4555	0.0680	-0.0685	-1.2007	

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.085	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CH1	CH2	XLFF1	YCPF1	CNF2	CH2	Cb2	XCPF2	YCPF2
1	-2.76	0.0	0.0037	-0.0002	0.0075	-0.0541	2.0359	-0.1712	-0.0516	-0.0783	0.3014	0.4576
2	-2.75	0.01	-0.0017	0.0	0.0002	0.0	-0.1374	0.0001	0.0	-0.0004	0.0	-3.6668
3	-1.51	0.0	0.0057	0.0006	0.0092	0.1053	1.6139	-0.0921	-0.0281	-0.0417	0.3051	0.4526
4	-0.72	0.0	0.0060	0.0012	0.0103	0.2000	1.7165	-0.0552	-0.0161	-0.0237	0.2917	0.4292
5	-0.40	0.0	0.0115	0.0021	0.0110	0.1826	0.9593	-0.0244	-0.0057	-0.0005	0.2336	0.3496
6	0.11	-0.01	0.0211	0.0046	0.0146	0.2180	0.6934	0.0152	0.0056	0.0057	0.3684	0.3727
7	0.65	-0.01	0.0079	0.0015	0.0058	0.1899	1.2446	0.0385	0.0146	0.0189	0.3792	0.4917
8	1.14	-0.01	0.0043	0.0008	0.0082	0.1860	1.9146	0.0662	0.0222	0.0288	0.3353	0.4344
9	1.64	-0.01	0.0207	0.0032	0.0101	0.1546	0.4878	0.1042	0.0326	0.0436	0.3129	0.4167
10	2.12	-0.01	0.0100	0.0020	0.0095	0.2000	0.9532	0.1354	0.0432	0.0598	0.3191	0.4418
11	2.61	-0.04	0.0120	0.0025	0.0098	0.2083	0.8165	0.1666	0.0539	0.0761	0.3235	0.4569
12	3.08	-0.03	0.0154	0.0029	0.0108	0.1883	0.7033	0.2034	0.0633	0.0902	0.3112	0.4433
13	3.56	-0.03	0.0224	0.0033	0.0100	0.1473	0.4448	0.2406	0.0747	0.1099	0.3105	0.4567
14	4.02	-0.03	0.0227	0.0041	0.0124	0.1806	0.5447	0.2758	0.0832	0.1246	0.3017	0.4518
15	4.50	-0.03	0.0223	0.0035	0.0116	0.1570	0.5216	0.3076	0.0912	0.1397	0.2965	0.4542
16	4.92	-0.04	0.0201	0.0024	0.0103	0.1194	0.5123	0.3412	0.0984	0.1545	0.2884	0.4528
17	5.39	-0.03	0.0234	0.0027	0.0113	0.1154	0.4828	0.3693	0.1052	0.1715	0.2849	0.4643
18	5.83	-0.05	0.0262	0.0025	0.0133	0.0954	0.5088	0.4049	0.1097	0.1858	0.2709	0.4589
19	6.26	-0.04	0.0287	0.0013	0.0123	0.0453	0.4273	0.4331	0.1092	0.1969	0.2521	0.4547
20	6.71	-0.03	0.0374	0.0030	0.0182	0.0802	0.4856	0.4563	0.1105	0.2073	0.2422	0.4544
21	7.15	-0.04	0.0350	0.0019	0.0172	0.0503	0.4904	0.4674	0.1121	0.2201	0.2300	0.4516
22	7.60	-0.04	0.0401	0.0021	0.0174	0.0524	0.4330	0.5011	0.1132	0.2274	0.2259	0.4537
23	8.03	-0.04	0.0336	0.0025	0.0184	0.0744	0.5475	0.5229	0.1130	0.2368	0.2161	0.4529
24	8.46	-0.04	0.0380	0.0040	0.0152	0.1053	0.5043	0.5286	0.0995	0.2427	0.1882	0.4592
25	8.87	-0.03	0.0270	0.0019	0.0158	0.0704	0.5851	0.5081	0.0606	0.2344	0.1586	0.4613
26	9.29	-0.04	0.0179	0.0	0.0124	0.0	0.6908	0.4995	0.0724	0.2231	0.1449	0.4467
27	9.72	-0.03	0.0233	0.0013	0.0158	0.0558	0.6766	0.5056	0.0685	0.2247	0.1355	0.4444
28	10.11	-0.03	0.0264	0.0013	0.0168	0.0492	0.6362	0.5099	0.0664	0.2244	0.1302	0.4401
29	10.52	-0.06	0.0211	0.0006	0.0160	0.0284	0.7598	0.5070	0.0640	0.2271	0.1262	0.4480
30	10.89	-0.05	0.0253	0.0	0.0173	0.0	0.6850	0.5313	0.0622	0.2335	0.1171	0.4396
31	11.28	-0.05	0.0344	0.0022	0.0230	0.0640	0.6675	0.5342	0.0615	0.2364	0.1151	0.4425
32	11.64	-0.05	0.0218	-0.0009	0.0144	-0.0413	0.6589	0.5563	0.0602	0.2450	0.1082	0.4404
33	12.00	-0.04	0.0388	0.0019	0.0252	0.0490	0.6502	0.5749	0.0595	0.2539	0.1035	0.4416
34	12.37	-0.06	0.0284	0.0002	0.0195	0.0070	0.6853	0.5889	0.0594	0.2603	0.1009	0.4421
35	12.73	-0.05	0.0330	-0.0002	0.0204	-0.0061	0.6181	0.6066	0.0596	0.2652	0.0983	0.4372
36	13.09	-0.08	0.0395	0.0006	0.0250	0.0152	0.6319	0.6304	0.0594	0.2737	0.0942	0.4341
37	13.46	-0.06	0.0205	-0.0025	0.0146	-0.1220	0.7137	0.6378	0.0595	0.2788	0.0933	0.4372
38	13.82	-0.06	0.0274	-0.0016	0.0172	-0.0584	0.6288	0.6506	0.0595	0.2841	0.0915	0.4367
39	14.16	-0.04	0.0116	-0.0040	0.0116	-0.3448	0.9970	0.6370	0.0601	0.2878	0.0915	0.4381
40	14.51	-0.08	0.0249	-0.0036	0.0131	-0.1446	0.5260	0.6786	0.0601	0.2954	0.0886	0.4353
41	14.86	-0.08	0.0095	-0.0047	0.0108	-0.4947	1.1332	0.6867	0.0601	0.2972	0.0875	0.4328
42	15.25	-0.08	0.0110	-0.0049	0.0109	-0.4455	0.9878	0.7116	0.0606	0.3095	0.0852	0.4350
43	15.87	-0.08	0.0314	-0.0028	0.0191	-0.0892	0.5753	0.7240	0.0633	0.3158	0.0833	0.4363
44	16.20	-0.08	-0.0052	-0.0078	0.0050	1.5000	-0.9552	0.7338	0.0605	0.3178	0.0824	0.4331
45	16.52	-0.08	0.0206	-0.0040	0.0174	-0.1942	0.6429	0.7510	0.0606	0.3258	0.0807	0.4339
46	16.87	-0.09	0.0437	0.0	0.0278	0.0	0.6353	0.7638	0.0603	0.3306	0.0789	0.4328

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CNCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		1 0.85 1.7		0.0	BZWOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNCF1	CHI	CBI	XCPI1	YCPI1	CNCF2	CH2	CB2	XCPI2	YCPI2
47	17.17	-0.07	0.0066	-0.0076	0.0041	-1.1515	0.6211	0.7701	0.0608	0.3330	0.0790	0.4324
48	17.50	-0.07	0.0274	-0.0017	0.0244	-0.0620	1.0339	0.7818	0.0610	0.3391	0.0780	0.4338
49	18.17	-0.09	0.0309	-0.0073	0.0196	-0.2362	0.6342	0.7915	0.0600	0.3434	0.0758	0.4339
50	18.52	-0.07	0.0827	-0.0025	0.0504	-0.0302	0.6150	0.8210	0.0595	0.3534	0.0725	0.4304
51	18.85	-0.09	0.0617	-0.0079	0.0304	-0.1280	0.4920	0.8005	0.0602	0.3446	0.0752	0.4305
52	19.18	-0.10	0.0684	-0.0070	0.0341	-0.1023	0.4984	0.7970	0.0604	0.3448	0.0758	0.4326
53	19.50	-0.09	0.0815	-0.0030	0.0446	-0.0368	0.5467	0.7958	0.0605	0.3422	0.0760	0.4300
54	19.83	-0.09	0.0558	-0.0057	0.0380	-0.1022	0.6009	0.7890	0.0608	0.3421	0.0771	0.4336
55	20.17	-0.08	0.0004	-0.0108	-0.0052	-27.0000	-12.9168	0.7364	0.0650	0.3136	0.0883	0.4258
56	20.51	-0.09	0.0370	-0.0071	0.0345	-0.1919	0.9332	0.7834	0.0616	0.3440	0.0786	0.4392
57	20.83	-0.09	0.0543	-0.0049	0.0405	-0.0902	0.7531	0.8151	0.0599	0.3568	0.0735	0.4377
58	21.16	-0.09	0.0052	-0.0090	0.0170	-1.7308	3.2755	0.7693	0.0631	0.3373	0.0820	0.4385
59	21.47	-0.10	0.1920	-0.0077	-0.0968	-0.0401	-0.5043	0.7498	0.0623	0.3451	0.0789	0.4369
60	21.78	-0.09	-0.0083	-0.0124	0.0017	1.4490	-0.2090	0.7855	0.0637	0.3405	0.0011	0.4335
61	22.11	-0.10	-0.0206	-0.0099	-0.0048	0.4806	0.2313	0.7691	0.0654	0.3365	0.0850	0.4375
62	22.38	-0.10	0.0031	-0.0111	0.0094	-3.5806	3.0429	0.8087	0.0633	0.3525	0.0763	0.4358
63	22.71	-0.11	-0.0373	-0.0121	-0.0187	0.3244	0.5021	0.7942	0.0649	0.3470	0.0817	0.4370
64	23.01	-0.11	-0.0161	-0.0128	-0.0063	0.7950	0.3891	0.8095	0.0643	0.3508	0.0794	0.4334
65	23.32	-0.10	-0.0144	-0.0127	-0.0053	0.8814	0.3679	0.8231	0.0638	0.3599	0.0775	0.4372
66	23.62	-0.10	-0.0286	-0.0113	-0.0169	0.3951	0.5920	0.8202	0.0644	0.3599	0.0785	0.4388
67	23.94	-0.09	-0.0181	-0.0101	-0.0136	0.5580	0.7531	0.8364	0.0644	0.3616	0.0770	0.4323
68	24.25	-0.11	-0.0178	-0.0097	0.0014	0.5449	-0.0769	0.8504	0.0639	0.3694	0.0751	0.4343
69	24.55	-0.10	-0.0170	-0.0086	0.0012	0.5059	-0.0727	0.8728	0.0635	0.3777	0.0728	0.4328
70	24.86	-0.10	-0.0005	-0.0091	-0.0147	18.2000	24.3332	0.8788	0.0643	0.3819	0.0732	0.4346
71	25.16	-0.08	-0.0076	-0.0084	-0.0056	1.1053	0.7411	0.8951	0.0630	0.3872	0.0704	0.4325
72	25.45	-0.09	-0.0103	-0.0081	-0.0090	0.7864	0.8769	0.9030	0.0628	0.3910	0.0695	0.4330
73	25.73	-0.10	0.0320	0.0008	-0.0014	0.0250	-0.0449	0.8985	0.0634	0.3874	0.0706	0.4312
74	26.04	-0.10	0.0591	0.0068	0.0126	0.1151	0.2131	0.9066	0.0628	0.3932	0.0693	0.4337
75	26.32	-0.12	0.0792	0.0139	0.0234	0.1755	0.3206	0.9065	0.0632	0.3923	0.0697	0.4327
76	26.64	-0.10	0.0102	-0.0022	0.0076	-0.2157	0.7646	0.9287	0.0621	0.4012	0.0669	0.4320
77	26.92	-0.11	0.0803	0.0155	0.0373	0.1930	0.4640	0.9220	0.0620	0.3958	0.0672	0.4294
78	27.25	-0.11	0.0634	0.0086	0.0264	0.1356	0.4168	0.9277	0.0618	0.3988	0.0666	0.4299
79	27.53	-0.11	0.0672	0.0104	0.0327	0.1548	0.4865	0.9337	0.0614	0.4018	0.0658	0.4304
80	27.83	-0.10	0.1014	0.0171	0.0482	0.1686	0.4752	0.9333	0.0613	0.4015	0.0657	0.4302
81	28.14	-0.10	0.0609	0.0077	0.0286	0.1264	0.4695	0.9405	0.0612	0.4038	0.0651	0.4293
82	28.44	-0.10	0.0868	0.0143	0.0453	0.1647	0.5222	0.9420	0.0609	0.4057	0.0646	0.4307
83	28.76	-0.11	0.0996	0.0190	0.0511	0.1908	0.5129	0.9438	0.0611	0.4042	0.0647	0.4283
84	29.06	-0.11	0.1608	0.0341	0.0748	0.2121	0.4651	0.9468	0.0609	0.4058	0.0642	0.4276
85	29.36	-0.11	0.1590	0.0368	0.0804	0.2314	0.5055	0.9496	0.0604	0.4060	0.0636	0.4297
86	29.46	-0.11	0.1655	0.0416	0.0866	0.2514	0.5235	0.9482	0.0608	0.4104	0.0641	0.4328

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 1 0.85 1.7 0.0 B2WOF16 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
47	17.17	-0.07	0.0551	0.0127	0.0309	0.2305	0.5601	0.7092	0.0596	0.3209	0.0840	0.4525
48	17.50	-0.07	0.0515	0.0124	0.0325	0.2408	0.6303	0.7070	0.0600	0.3234	0.0849	0.4574
49	18.17	-0.09	0.0532	0.0130	0.0313	0.2444	0.5389	0.6895	0.0619	0.3080	0.0898	0.4466
50	18.52	-0.07	0.0634	0.0132	0.0319	0.2082	0.5036	0.6258	0.0641	0.2863	0.1024	0.4575
51	18.85	-0.09	0.0676	0.0147	0.0365	0.2175	0.5403	0.6243	0.0647	0.2889	0.1036	0.4628
52	19.18	-0.10	0.0584	0.0125	0.0317	0.2140	0.5421	0.6246	0.0652	0.2901	0.1044	0.4645
53	19.50	-0.09	0.0589	0.0118	0.0297	0.2003	0.5047	0.6435	0.0648	0.2973	0.1007	0.4620
54	19.83	-0.09	0.0636	0.0125	0.0319	0.1965	0.5015	0.6505	0.0651	0.3004	0.1001	0.4617
55	20.17	-0.08	0.0646	0.0140	0.0345	0.2167	0.5345	0.7218	0.0625	0.3265	0.0866	0.4524
56	20.51	-0.09	0.0633	0.0130	0.0329	0.2054	0.5196	0.6663	0.0657	0.3115	0.0986	0.4675
57	20.83	-0.09	0.0587	0.0117	0.0316	0.1993	0.5376	0.6724	0.0643	0.3164	0.0996	0.4705
58	21.16	-0.09	0.0603	0.0119	0.0320	0.1973	0.5306	0.7002	0.0645	0.3261	0.0921	0.4657
59	21.47	-0.10	0.0584	0.0122	0.0336	0.2089	0.5747	0.7131	0.0637	0.3324	0.0893	0.4662
60	21.78	-0.09	0.0682	0.0135	0.0345	0.2038	0.5062	0.7287	0.0637	0.3374	0.0874	0.4630
61	22.11	-0.10	0.0713	0.0144	0.0365	0.2020	0.5169	0.7509	0.0630	0.3457	0.0839	0.4604
62	22.38	-0.10	0.0719	0.0134	0.0354	0.1864	0.4918	0.7459	0.0643	0.3442	0.0862	0.4615
63	22.71	-0.11	0.0695	0.0147	0.0375	0.2115	0.5390	0.7758	0.0621	0.3593	0.0800	0.4631
64	23.01	-0.11	0.0715	0.0142	0.0365	0.1986	0.5164	0.7718	0.0634	0.3563	0.0821	0.4616
65	23.32	-0.10	0.0734	0.0141	0.0361	0.1921	0.4913	0.7699	0.0634	0.3609	0.0823	0.4688
66	23.62	-0.10	0.0740	0.0151	0.0355	0.1936	0.5063	0.7993	0.0623	0.3710	0.0779	0.4642
67	23.94	-0.09	0.0665	0.0140	0.0376	0.2105	0.5558	0.8156	0.0618	0.3772	0.0758	0.4624
68	24.25	-0.11	0.0586	0.0121	0.0348	0.2065	0.5943	0.8160	0.0628	0.3801	0.0770	0.4658
69	24.55	-0.10	0.0618	0.0128	0.0351	0.2071	0.5678	0.8349	0.0622	0.3865	0.0745	0.4629
70	24.86	-0.10	0.0743	0.0153	0.0410	0.2059	0.5912	0.8555	0.0617	0.3934	0.0721	0.4598
71	25.16	-0.08	0.0632	0.0134	0.0365	0.2120	0.5769	0.8586	0.0615	0.4019	0.0716	0.4681
72	25.46	-0.09	0.0709	0.0143	0.0358	0.2017	0.5617	0.8734	0.0613	0.4055	0.0702	0.4643
73	25.73	-0.10	0.0724	0.0145	0.0389	0.2003	0.5376	0.8921	0.0602	0.4145	0.0675	0.4646
74	26.04	-0.10	0.0783	0.0156	0.0428	0.1992	0.5665	0.8901	0.0607	0.4134	0.0682	0.4644
75	26.32	-0.12	0.0735	0.0151	0.0404	0.2054	0.5495	0.8968	0.0598	0.4184	0.0667	0.4669
76	26.64	-0.10	0.0624	0.0130	0.0370	0.2083	0.5428	0.9000	0.0605	0.4180	0.0672	0.4644
77	26.92	-0.11	0.0781	0.0156	0.0431	0.1997	0.5422	0.9158	0.0593	0.4227	0.0648	0.4615
78	27.25	-0.11	0.0687	0.0140	0.0401	0.2038	0.5436	0.9119	0.0598	0.4214	0.0656	0.4621
79	27.53	-0.11	0.0623	0.0130	0.0379	0.2087	0.6077	0.9096	0.0594	0.4238	0.0653	0.4659
80	27.83	-0.10	0.0752	0.0149	0.0421	0.1981	0.5593	0.9142	0.0595	0.4228	0.0651	0.4625
81	28.14	-0.10	0.0738	0.0142	0.0417	0.1924	0.5649	0.9146	0.0590	0.4270	0.0645	0.4668
82	28.44	-0.10	0.0578	0.0124	0.0364	0.2145	0.6291	0.9162	0.0592	0.4295	0.0646	0.4688
83	28.76	-0.11	0.0656	0.0142	0.0401	0.2165	0.6107	0.9172	0.0585	0.4275	0.0638	0.4661
84	29.06	-0.11	0.0723	0.0145	0.0421	0.2006	0.5822	0.9396	0.0584	0.4347	0.0622	0.4626
85	29.36	-0.11	0.0724	0.0146	0.0421	0.2017	0.5818	0.9438	0.0581	0.4396	0.0616	0.4658
86	29.46	-0.11	0.0726	0.0146	0.0425	0.2011	0.5853	0.9496	0.0581	0.4396	0.0612	0.4630

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	2.092	1.7	0.0	B2WOF16	0.0	0	0	0	0	Fixed
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.77	0.0	-0.4461	1.1865	0.0812	-0.1407	0.0010	0.1763	-2.6595	
2	-2.48	0.0	-0.4195	1.1403	0.0646	-0.1404	-0.0010	0.1765	-2.7179	
3	-1.86	0.0	-0.2765	0.7280	0.0887	-0.2072	-0.0050	0.1770	-2.6333	
4	-1.31	0.02	-0.1965	0.4730	0.0980	0.0138	-0.0080	0.1755	-2.4076	
5	-0.73	0.0	-0.0979	0.2750	0.0337	-0.1452	-0.0030	0.1710	-2.8096	
6	-0.21	0.01	-0.0201	0.0971	0.0484	-0.1187	-0.0060	0.1775	-4.8328	
7	0.32	0.0	0.0333	-0.0236	0.0285	-0.1479	-0.0040	0.1780	-0.7093	
8	0.83	0.0	0.1236	-0.2170	0.0265	-0.1041	-0.0080	0.1800	-1.7500	
9	1.33	-0.03	0.1560	-0.4071	0.0813	-0.2148	-0.0060	0.1882	-2.0566	
10	1.82	-0.02	0.2638	-0.6222	0.0864	-0.1409	-0.0050	0.1892	-2.3591	
11	2.32	-0.03	0.3794	-0.9310	0.0268	-0.1825	-0.0030	0.1862	-2.4543	
12	2.79	-0.02	0.4669	-1.1746	0.0505	-0.1217	-0.0050	0.1888	-2.5156	
13	3.25	-0.04	0.5806	-1.4898	-0.0219	-0.2043	-0.0020	0.1905	-2.5658	
14	3.72	-0.03	0.6783	-1.7405	0.0090	-0.0716	-0.0030	0.1892	-2.5660	
15	4.15	-0.02	0.7478	-2.0138	0.0783	-0.0946	-0.0020	0.1936	-2.6930	
16	4.61	-0.02	0.8340	-2.2744	0.0504	-0.0756	-0.0050	0.1918	-2.7272	
17	5.06	-0.03	0.9373	-2.5440	0.0537	-0.0772	-0.0010	0.1996	-2.7143	
18	5.52	-0.04	1.0354	-2.7993	0.0093	-0.0190	0.0020	0.2006	-2.7037	
19	5.96	-0.03	1.0911	-2.9523	0.0237	-0.0682	0.0080	0.2026	-2.7059	
20	6.42	-0.05	1.1776	-3.1085	0.0125	-0.0685	0.0170	0.2127	-2.6396	
21	6.86	-0.03	1.2195	-3.2522	0.0323	0.0358	0.0360	0.2253	-2.6667	
22	7.30	-0.04	1.2922	-3.4139	0.0416	0.0538	0.0340	0.2323	-2.6419	
23	7.75	-0.05	1.3409	-3.4841	-0.0062	0.0637	0.0470	0.2357	-2.5983	
24	8.18	-0.05	1.4101	-3.5989	-0.0098	0.0697	0.0430	0.2443	-2.5522	
25	8.61	-0.06	1.4692	-3.7487	-0.0041	0.0627	0.0270	0.2427	-2.5515	
26	9.00	-0.04	1.5480	-3.8490	-0.0243	0.1010	0.0340	0.2370	-2.4664	
27	9.42	-0.06	1.6004	-3.9653	-0.0147	-0.0874	0.0050	0.2411	-2.4777	
28	9.84	-0.07	1.6489	-4.0122	-0.0180	-0.3718	-0.0260	0.2457	-2.4333	
29	10.22	-0.07	1.7029	-4.0788	0.1216	-0.2442	-0.0280	0.2458	-2.3952	
30	10.64	-0.05	1.7586	-4.2328	0.0757	-0.1680	-0.0280	0.2403	-2.4069	
31	11.02	-0.08	1.7806	-4.1426	0.0580	-0.3891	-0.0580	0.2354	-2.3265	
32	11.41	-0.05	1.7788	-4.0091	0.1350	-0.1710	-0.0190	0.2379	-2.2538	
33	11.76	-0.07	1.8330	-4.0879	0.0794	-0.2218	-0.0180	0.2374	-2.2302	
34	12.14	-0.08	1.9073	-4.2871	0.0064	-0.1569	-0.0160	0.2370	-2.2477	
35	12.51	-0.08	1.9800	-4.3988	0.0322	-0.2520	-0.0220	0.2328	-2.2216	
36	12.86	-0.08	2.0784	-4.6276	0.0321	-0.1399	-0.0210	0.2344	-2.2265	
37	13.21	-0.07	2.1204	-4.7274	0.0964	-0.1589	-0.0340	0.2288	-2.2294	
38	13.58	-0.08	2.2013	-4.8726	0.0412	-0.1577	-0.0220	0.2233	-2.2135	
39	13.91	-0.08	2.2979	-5.1208	0.0321	-0.1419	-0.0340	0.2233	-2.2285	
40	14.24	-0.09	2.3482	-5.2582	-0.0138	-0.1557	-0.0370	0.2228	-2.2393	
41	14.63	-0.09	2.4377	-5.3755	0.0814	-0.1266	-0.0440	0.2154	-2.2052	
42	14.95	-0.08	2.5270	-5.5485	0.0120	-0.1708	-0.0360	0.2167	-2.1957	
43	15.32	-0.07	2.5854	-5.5992	0.0141	0.0243	-0.0450	0.2104	-2.1657	
44	15.64	-0.08	2.6284	-5.7194	-0.0007	-0.0580	-0.0360	0.2081	-2.1760	
45	15.99	-0.09	2.7193	-5.8598	0.0398	-0.1417	-0.0400	0.2054	-2.1549	
46	16.30	-0.10	2.7831	-5.9361	-0.0224	-0.0576	-0.0480	0.1997	-2.1329	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	2.0	2.17	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.65	-0.09	2.8472	-5.9739	0.0330	-0.0102	-0.0540	0.1969	-2.0981	
48	16.96	-0.08	2.9072	-6.0628	0.0826	-0.0256	-0.0550	0.1924	-2.0854	
49	17.30	-0.10	2.9354	-6.1343	-0.0314	-0.0460	-0.0460	0.1895	-2.0898	
50	17.62	-0.08	3.0029	-6.1698	0.0644	0.0408	-0.0490	0.1801	-2.0546	
51	17.96	-0.09	3.0647	-6.2063	0.0316	-0.0392	-0.0550	0.1806	-2.0251	
52	18.29	-0.09	3.1325	-6.2622	-0.0632	-0.0225	-0.0590	0.1753	-1.9991	
53	18.62	-0.10	3.1853	-6.2862	-0.0270	-0.0592	-0.0550	0.1700	-1.9735	
54	18.97	-0.10	3.2171	-6.2297	0.0047	-0.1136	-0.0700	0.1688	-1.9364	
55	19.26	-0.09	3.2662	-6.3462	0.0135	-0.0485	-0.0660	0.1595	-1.9418	
56	19.60	-0.09	3.3134	-6.3315	-0.0043	-0.0330	-0.0670	0.1602	-1.9109	
57	19.94	-0.09	3.3488	-6.1981	0.0609	-0.0383	-0.0700	0.1559	-1.8509	
58	20.28	-0.09	3.4278	-6.2747	0.0165	0.0069	-0.0620	0.1525	-1.8305	
59	20.61	-0.10	3.4270	-6.1266	-0.0572	0.0451	-0.0580	0.1549	-1.7878	
60	20.97	-0.10	3.4215	-5.9539	0.0623	-0.2852	-0.1030	0.1729	-1.7402	
61	21.28	-0.11	3.4935	-6.0369	-0.0625	-0.1235	-0.0500	0.1737	-1.7230	
62	21.59	-0.09	3.5254	-6.0305	0.0175	0.0415	-0.0550	0.1678	-1.7106	
63	21.91	-0.09	3.5962	-6.0726	0.0362	0.0683	-0.0500	0.1627	-1.6886	
64	22.21	-0.11	3.6377	-6.1467	0.0195	-0.1283	-0.0540	0.1613	-1.6897	
65	22.53	-0.12	3.7227	-6.1657	-0.0581	-0.1246	-0.0500	0.1592	-1.6562	
66	22.83	-0.10	3.7305	-6.2296	0.0348	-0.0687	-0.0640	0.1477	-1.6699	
67	23.16	-0.11	3.8405	-6.3326	0.0241	-0.1667	-0.0850	0.1418	-1.6489	
68	23.46	-0.11	3.9081	-6.3552	-0.0063	-0.0432	-0.0200	0.1403	-1.6262	
69	23.78	-0.10	3.8597	-6.2517	0.0556	-0.0998	-0.0510	0.1276	-1.6197	
70	24.12	-0.12	3.9994	-6.2980	-0.0720	0.0118	-0.0680	0.1305	-1.5748	
71	24.41	-0.11	3.9763	-6.1837	-0.0106	-0.0642	-0.0600	0.1103	-1.5551	
72	24.74	-0.09	4.1098	-6.3326	0.1162	-0.0577	-0.0590	0.1115	-1.5409	
73	25.05	-0.10	4.2870	-6.4608	0.0294	0.1188	-0.0770	0.1076	-1.5071	
74	25.33	-0.12	4.2213	-6.2558	-0.0305	-0.0833	-0.0450	0.0984	-1.4820	
75	25.62	-0.10	4.2932	-6.2985	0.0296	-0.0094	-0.0570	0.0958	-1.4671	
76	25.93	-0.10	4.2924	-6.0834	0.1120	-0.1458	-0.0250	0.0816	-1.4172	
77	26.22	-0.12	4.3655	-6.0078	0.0824	-0.2813	-0.0180	0.0779	-1.3762	
78	26.53	-0.12	4.4396	-6.0085	0.1087	-0.2861	0.0	0.0698	-1.3534	
79	26.83	-0.12	4.4659	-5.8363	-0.0282	0.1565	-0.0470	0.0576	-1.3069	
80	27.14	-0.12	4.6354	-5.9626	0.1112	-0.1867	0.0040	0.0579	-1.2863	
81	27.46	-0.12	4.7311	-5.9686	0.1579	-0.3620	0.0210	0.0515	-1.2616	
82	27.75	-0.11	4.8110	-6.0294	0.2169	-0.2906	0.0180	0.0524	-1.2533	
83	28.09	-0.12	4.9703	-5.8715	0.1231	-0.2633	0.0280	0.0437	-1.1813	
84	28.39	-0.10	5.1086	-5.9152	0.1535	0.0501	-0.0290	0.0463	-1.1579	
85	28.72	-0.11	5.2194	-5.8864	0.1811	-0.3145	-0.0010	0.0368	-1.1278	
86	29.04	-0.10	5.3507	-5.8462	0.2352	-0.3042	-0.0050	0.0356	-1.0926	
87	29.38	-0.09	5.5125	-5.8457	0.3196	-0.2734	0.0170	0.0141	-1.0605	
88	29.61	-0.03	5.4701	-5.5794	0.2656	0.6061	-0.0380	0.0120	-1.0200	

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		2.0-92	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.77	0.0	0.0112	0.0017	0.0126	0.1518	1.1279	-0.1817	-0.0639	-0.0880	0.3517	0.4846
2	-2.48	0.0	0.0075	0.0008	0.0128	0.1067	1.7065	-0.1595	-0.0578	-0.0800	0.3624	0.5019
3	-1.68	0.0	0.0230	0.0042	0.0161	0.1626	0.6984	-0.1005	-0.0419	-0.0513	0.4169	0.5103
4	-1.31	0.02	0.0055	0.0011	0.0115	0.1158	1.2069	-0.0645	-0.0307	-0.0345	0.4760	0.5348
5	-0.73	0.0	0.0051	0.0007	0.0093	0.1373	1.8234	-0.0324	-0.0202	-0.0213	0.6235	0.6573
6	-0.21	0.01	0.0096	0.0031	0.0109	0.3229	1.1353	-0.0023	-0.0058	-0.0073	2.5217	3.1593
7	0.32	0.0	0.0204	0.0054	0.0102	0.2637	0.4999	0.0240	0.0103	0.0044	0.4292	0.1832
8	0.63	0.0	0.0110	0.0047	0.0104	0.4273	0.9423	0.0593	0.0236	0.0161	0.3980	0.3045
9	1.33	-0.03	0.0171	0.0069	0.0105	0.4035	0.6139	0.0872	0.0339	0.0317	0.3888	0.3630
10	1.82	-0.02	0.0277	0.0092	0.0111	0.3321	0.4018	0.1242	0.0446	0.0462	0.3591	0.3719
11	2.32	-0.03	0.0267	0.0055	0.0087	0.2657	0.4202	0.1576	0.0533	0.0631	0.3382	0.4005
12	2.79	-0.02	0.0168	0.0064	0.0098	0.3810	0.5832	0.1975	0.0640	0.0787	0.3241	0.3985
13	3.25	-0.04	0.0156	0.0050	0.0106	0.3205	0.6794	0.2435	0.0788	0.1000	0.3236	0.4108
14	3.72	-0.03	0.0146	0.0037	0.0103	0.2534	0.7031	0.2793	0.0881	0.1178	0.3154	0.4217
15	4.15	-0.02	0.0129	0.0036	0.0112	0.2791	0.8601	0.3134	0.0944	0.1332	0.3012	0.4251
16	4.61	-0.02	0.0159	0.0040	0.0129	0.2516	0.8112	0.3579	0.1014	0.1501	0.2833	0.4193
17	5.06	-0.03	0.0187	0.0034	0.0105	0.1818	0.5632	0.3901	0.1061	0.1664	0.2720	0.4265
18	5.52	-0.04	0.0183	0.0034	0.0131	0.1856	0.7157	0.4209	0.1140	0.1832	0.2708	0.4351
19	5.96	-0.05	0.0213	0.0036	0.0138	0.1690	0.6978	0.4427	0.1176	0.1927	0.2656	0.4353
20	6.42	-0.05	0.0271	0.0035	0.0131	0.1292	0.4845	0.4533	0.1227	0.1980	0.2707	0.4365
21	6.86	-0.03	0.0077	0.0021	0.0085	0.2727	1.1514	0.4427	0.1266	0.1969	0.2860	0.4448
22	7.30	-0.04	0.0083	0.0015	0.0112	0.1807	1.3453	0.4643	0.1285	0.2090	0.2768	0.4502
23	7.75	-0.05	0.0065	0.0022	0.0090	0.3492	1.4285	0.4718	0.1274	0.2097	0.2700	0.4445
24	8.18	-0.05	0.0024	0.0011	0.0090	0.4583	3.7499	0.4949	0.1271	0.2211	0.2568	0.4468
25	8.61	-0.06	0.0083	0.0015	0.0136	0.2289	1.6344	0.5238	0.1275	0.2352	0.2434	0.4491
26	9.00	-0.04	0.0065	0.0009	0.0106	0.1385	1.6255	0.5424	0.1286	0.2401	0.2371	0.4427
27	9.42	-0.06	0.0116	-0.0005	0.0117	-0.0455	1.0605	0.5606	0.1286	0.2566	0.2215	0.4453
28	9.84	-0.07	0.0153	-0.0026	0.0243	-0.0737	0.6873	0.6255	0.1275	0.2788	0.2038	0.4458
29	10.22	-0.07	0.0109	-0.0027	0.0240	-0.0874	0.7766	0.6412	0.1278	0.2840	0.1993	0.4429
30	10.64	-0.05	0.0218	-0.0030	0.0235	-0.1079	0.8440	0.6622	0.1273	0.2945	0.1922	0.4447
31	11.02	-0.08	0.0577	-0.0021	0.0338	-0.0364	0.5862	0.6738	0.1221	0.2968	0.1812	0.4405
32	11.41	-0.05	0.0304	-0.0003	0.0203	-0.0099	0.6687	0.6133	0.0788	0.2570	0.1285	0.4190
33	11.76	-0.07	0.0268	-0.0004	0.0206	-0.0139	0.7221	0.6200	0.0774	0.2615	0.1246	0.4218
34	12.14	-0.08	0.0282	-0.0013	0.0195	-0.0461	0.7056	0.6458	0.0733	0.2702	0.1135	0.4184
35	12.51	-0.08	0.0258	-0.0016	0.0246	-0.0620	0.9534	0.6667	0.0716	0.2800	0.1074	0.4199
36	12.86	-0.08	0.0176	-0.0037	0.0196	-0.2102	1.1116	0.6992	0.0676	0.2936	0.0967	0.4195
37	13.21	-0.07	0.0117	-0.0050	0.0130	-0.4274	1.1110	0.7167	0.0653	0.2970	0.0911	0.4155
38	13.58	-0.08	0.0265	-0.0024	0.0252	-0.0906	0.9521	0.7404	0.0635	0.3090	0.0858	0.4174
39	13.91	-0.08	-0.0004	-0.0061	0.0095	15.2500	-23.6668	0.7603	0.0607	0.3171	0.0792	0.4139
40	14.24	-0.09	0.0105	-0.0061	0.0148	-0.5810	1.4094	0.7930	0.0533	0.3304	0.0748	0.4167
41	14.63	-0.09	0.0027	-0.0072	0.0130	-2.6667	4.8147	0.8048	0.0585	0.3367	0.0727	0.4183
42	14.95	-0.08	0.0003	-0.0072	0.0092	-24.0000	30.6665	0.8261	0.0576	0.3448	0.0697	0.4173
43	15.32	-0.07	0.0007	-0.0076	0.0142	-10.8571	20.3332	0.8455	0.0569	0.3548	0.0673	0.4197
44	15.69	-0.08	-0.0011	-0.0078	0.0056	7.6909	-5.1213	0.8586	0.0567	0.3579	0.0660	0.4168
45	15.99	-0.09	0.0067	-0.0073	0.0148	-1.0896	2.2138	0.8769	0.0563	0.3659	0.0642	0.4173
46	16.30	-0.10	-0.0152	-0.0093	0.0035	0.6118	-0.2326	0.8840	0.0563	0.3704	0.0637	0.4190

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6	2.092	1.7	0.0	BZWF16	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	16.65	-0.09	-0.0168	-0.0101	-0.0008	0.6012	0.0475	0.8972	0.0559	0.3734	0.0623	0.4161
48	16.96	-0.08	-0.0179	-0.0101	-0.0032	0.5642	0.1768	0.9096	0.0559	0.3800	0.0615	0.4178
49	17.30	-0.10	-0.0026	-0.0088	0.0099	3.3846	-3.8206	0.9214	0.0552	0.3875	0.0599	0.4206
50	17.62	-0.08	-0.0164	-0.0105	0.0050	0.6402	-0.3070	0.9236	0.0549	0.3878	0.0594	0.4198
51	17.96	-0.09	0.0101	-0.0077	0.0194	-0.7624	1.9669	0.9477	0.0547	0.3974	0.0577	0.4193
52	18.29	-0.09	-0.0169	-0.0115	0.0030	0.6805	-0.1757	0.9482	0.0552	0.3947	0.0582	0.4162
53	18.62	-0.10	-0.0023	-0.0092	0.0160	4.0000	-6.9711	0.9574	0.0546	0.4024	0.0570	0.4203
54	18.97	-0.10	-0.0026	-0.0103	0.0126	3.9615	-4.8591	0.9639	0.0546	0.4033	0.0566	0.4184
55	19.26	-0.09	-0.0248	-0.0119	-0.0084	0.4798	0.3372	0.9547	0.0547	0.3961	0.0573	0.4170
56	19.60	-0.09	-0.0313	-0.0119	-0.0158	0.3802	0.5057	0.9297	0.0559	0.3804	0.0601	0.4092
57	19.94	-0.09	-0.0129	-0.0121	0.0028	0.9380	-0.2172	0.9609	0.0550	0.4020	0.0572	0.4183
58	20.28	-0.09	-0.0340	-0.0126	-0.0114	0.3706	0.3362	0.9506	0.0548	0.3970	0.0576	0.4176
59	20.61	-0.10	-0.0298	-0.0129	-0.0103	0.4329	0.3466	0.9464	0.0548	0.3945	0.0579	0.4168
60	20.97	-0.10	0.0057	-0.0155	0.0094	-2.7193	1.6490	0.9666	0.0541	0.4015	0.0560	0.4154
61	21.28	-0.11	0.0116	-0.0141	0.0268	-1.2155	2.3074	0.9718	0.0536	0.4173	0.0552	0.4294
62	21.59	-0.09	-0.0135	-0.0150	0.0015	1.1111	-0.1112	0.9459	0.0539	0.3998	0.0570	0.4227
63	21.91	-0.09	-0.0292	-0.0141	-0.0113	0.4829	0.3880	0.9307	0.0554	0.3878	0.0595	0.4167
64	22.21	-0.11	-0.0001	-0.0156	0.0119	22.2857	-16.9525	0.9690	0.0539	0.4106	0.0556	0.4237
65	22.53	-0.12	-0.0175	-0.0110	-0.0137	0.6286	0.7846	0.9359	0.0561	0.3867	0.0599	0.4131
66	22.83	-0.10	0.0043	-0.0153	0.0098	-3.5581	2.2867	0.9476	0.0532	0.4202	0.0533	0.4212
67	23.16	-0.11	-0.0041	-0.0184	0.0100	4.4678	-2.4473	1.0091	0.0525	0.4245	0.0520	0.4207
68	23.46	-0.11	-0.0178	-0.0073	-0.0281	0.2626	1.0095	0.9266	0.0571	0.3868	0.0616	0.4174
69	23.78	-0.10	-0.0269	-0.0150	-0.0124	0.5576	0.4596	0.9758	0.0546	0.4096	0.0560	0.4197
70	24.12	-0.12	-0.0054	-0.0114	-0.0056	2.1111	1.0369	0.9803	0.0550	0.4103	0.0561	0.4186
71	24.41	-0.11	-0.0036	-0.0115	-0.0084	3.1544	2.3332	0.9762	0.0554	0.4074	0.0568	0.4173
72	24.74	-0.09	-0.0059	-0.0086	-0.0076	1.4576	1.2824	0.9925	0.0549	0.4139	0.0553	0.4170
73	25.05	-0.10	-0.0224	-0.0162	-0.0075	0.7232	0.3332	1.0099	0.0541	0.4204	0.0536	0.4163
74	25.33	-0.12	0.0155	-0.0085	0.0016	-0.5484	0.0622	0.9992	0.0550	0.4193	0.0550	0.4197
75	25.62	-0.10	-0.0169	-0.0151	-0.0084	0.8535	0.4989	1.0103	0.0543	0.4224	0.0534	0.4157
76	25.93	-0.10	0.0345	-0.0024	0.0061	-0.0696	0.1767	0.9970	0.0560	0.4174	0.0562	0.4187
77	26.22	-0.12	0.0557	0.0021	0.0180	0.0377	0.3224	1.0174	0.0555	0.4248	0.0546	0.4175
78	26.53	-0.12	0.0343	-0.0040	0.0085	-0.1106	0.2487	1.0273	0.0552	0.4299	0.0537	0.4185
79	26.83	-0.12	0.0044	-0.0052	0.0028	-1.1818	0.6287	1.0266	0.0555	0.4279	0.0541	0.4168
80	27.14	-0.12	0.0618	0.0053	0.0226	0.0858	0.3056	1.0413	0.0549	0.4356	0.0527	0.4183
81	27.46	-0.12	0.0973	0.0125	0.0420	0.1285	0.4319	1.0443	0.0549	0.4360	0.0526	0.4175
82	27.75	-0.11	0.0835	0.0098	0.0379	0.1174	0.4542	1.0585	0.0537	0.4419	0.0507	0.4175
83	28.09	-0.12	0.0949	0.0102	0.0321	0.1075	0.3385	1.0619	0.0536	0.4468	0.0505	0.4208
84	28.39	-0.10	0.0434	0.0050	0.0212	0.1152	0.4876	1.0746	0.0523	0.4499	0.0487	0.4186
85	28.72	-0.11	0.0573	0.0054	0.0187	0.0942	0.3262	1.0804	0.0525	0.4520	0.0486	0.4184
86	29.04	-0.10	0.0659	0.0092	0.0302	0.1396	0.4576	1.0891	0.0519	0.4568	0.0477	0.4194
87	29.38	-0.09	0.0926	0.0156	0.0411	0.1605	0.4434	1.0925	0.0516	0.4569	0.0472	0.4182
88	29.61	-0.03	0.0427	0.0030	0.0136	0.0703	0.3192	1.0972	0.0510	0.4588	0.0465	0.4182

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	2.0-9.2	1.7	0.0	B2WCF16	0.0	0	0	0	0	FIXED		
PC1AT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.0	0.0136	0.0078	0.0091	0.5735	0.6715	-0.2429	-0.0615	-0.0742	0.2532	0.3056
2	-2.48	0.0	0.0134	0.0080	0.0102	0.5970	0.7586	-0.2298	-0.0578	-0.0694	0.2515	0.3019
3	-1.88	0.0	0.0160	0.0091	0.0112	0.5667	0.7320	-0.1738	-0.0432	-0.0458	0.2486	0.2636
4	-1.31	0.02	0.0192	0.0087	0.0111	0.4531	0.5780	-0.1280	-0.0301	-0.0241	0.2352	0.1879
5	-0.73	0.0	0.0148	0.0080	0.0111	0.5405	0.7321	-0.0908	-0.0181	-0.0081	0.1993	0.0887
6	-0.21	0.01	0.0193	0.0083	0.0121	0.4301	0.6286	-0.0612	-0.0060	-0.0043	0.0980	-0.0704
7	0.32	0.0	0.0236	0.0089	0.0136	0.3771	0.5747	-0.0333	0.0050	0.0155	-0.1502	-0.4656
8	0.83	0.0	0.0293	0.0097	0.0154	0.3311	0.5243	0.0004	0.0169	0.0307	2.6406	4.8020
9	1.33	-0.03	0.0364	0.0108	0.0174	0.2967	0.4788	0.0381	0.0260	0.0441	0.6824	1.1574
10	1.82	-0.02	0.0280	0.0087	0.0155	0.3107	0.5246	0.0698	0.0349	0.0586	0.5000	0.8389
11	2.32	-0.03	0.0290	0.0094	0.0181	0.3241	0.6229	0.1196	0.0486	0.0805	0.4064	0.6727
12	2.79	-0.02	0.0323	0.0094	0.0172	0.2910	0.5314	0.1512	0.0575	0.0966	0.3803	0.6388
13	3.25	-0.04	0.0323	0.0094	0.0172	0.2910	0.5314	0.1978	0.0739	0.1158	0.3564	0.5855
14	3.72	-0.03	0.0295	0.0084	0.0163	0.2847	0.5536	0.2374	0.0811	0.1332	0.3416	0.5611
15	4.15	-0.02	0.0367	0.0095	0.0181	0.2569	0.4940	0.2757	0.0886	0.1445	0.3214	0.5421
16	4.61	-0.02	0.0326	0.0084	0.0163	0.2577	0.4989	0.3068	0.0944	0.1643	0.3077	0.5356
17	5.06	-0.03	0.0426	0.0100	0.0188	0.2347	0.4412	0.3549	0.1007	0.1867	0.2837	0.5259
18	5.52	-0.04	0.0327	0.0079	0.0163	0.2416	0.4984	0.3790	0.1053	0.2001	0.2778	0.5279
19	5.96	-0.03	0.0366	0.0092	0.0192	0.2514	0.5245	0.4166	0.1093	0.2150	0.2624	0.5161
20	6.42	-0.05	0.0381	0.0095	0.0190	0.2493	0.4986	0.4421	0.1110	0.2271	0.2511	0.5137
21	6.86	-0.03	0.0422	0.0103	0.0213	0.2441	0.5038	0.4790	0.1166	0.2477	0.2434	0.5171
22	7.30	-0.04	0.0473	0.0124	0.0249	0.2622	0.5256	0.4942	0.1190	0.2563	0.2408	0.5186
23	7.75	-0.05	0.0437	0.0104	0.0216	0.2380	0.4934	0.5267	0.1220	0.2700	0.2316	0.5126
24	8.18	-0.05	0.0463	0.0110	0.0234	0.2376	0.5060	0.5424	0.1232	0.2789	0.2271	0.5143
25	8.61	-0.06	0.0465	0.0108	0.0226	0.2323	0.4859	0.5447	0.1273	0.2822	0.2337	0.5181
26	9.00	-0.04	0.0478	0.0110	0.0238	0.2301	0.4985	0.5676	0.1299	0.2944	0.2289	0.5187
27	9.42	-0.06	0.0475	0.0115	0.0248	0.2421	0.5227	0.5725	0.1336	0.2949	0.2334	0.5150
28	9.84	-0.07	0.0465	0.0108	0.0226	0.2323	0.4859	0.5133	0.1290	0.2713	0.2513	0.5286
29	10.22	-0.07	0.0442	0.0111	0.0256	0.2256	0.5080	0.5375	0.1282	0.2808	0.2385	0.5224
30	10.64	-0.05	0.0473	0.0118	0.0260	0.2495	0.5489	0.5541	0.1246	0.2882	0.2249	0.5202
31	11.02	-0.08	0.0410	0.0113	0.0283	0.2756	0.6893	0.5022	0.0794	0.2546	0.1581	0.5070
32	11.41	-0.05	0.0414	0.0110	0.0259	0.2657	0.6255	0.5256	0.0772	0.2634	0.1469	0.5012
33	11.76	-0.07	0.0500	0.0123	0.0283	0.2460	0.5652	0.5382	0.0750	0.2673	0.1394	0.4967
34	12.14	-0.08	0.0499	0.0124	0.0286	0.2485	0.5737	0.5626	0.0722	0.2799	0.1283	0.4975
35	12.51	-0.08	0.0569	0.0141	0.0307	0.2478	0.5388	0.5812	0.0695	0.2846	0.1196	0.4896
36	12.86	-0.08	0.0482	0.0128	0.0291	0.2656	0.6029	0.6112	0.0658	0.2989	0.1077	0.4890
37	13.21	-0.07	0.0408	0.0121	0.0283	0.2566	0.6935	0.6201	0.0691	0.3027	0.1050	0.4882
38	13.58	-0.08	0.0467	0.0125	0.0293	0.2677	0.6266	0.6440	0.0614	0.3137	0.0953	0.4871
39	13.91	-0.08	0.0476	0.0138	0.0318	0.2899	0.6672	0.6768	0.0597	0.3289	0.0882	0.4860
40	14.24	-0.09	0.0544	0.0145	0.0331	0.2641	0.6028	0.6840	0.0586	0.3335	0.0857	0.4876
41	14.63	-0.09	0.0491	0.0139	0.0327	0.2831	0.6652	0.7058	0.0578	0.3410	0.0819	0.4831
42	14.95	-0.08	0.0495	0.0135	0.0303	0.2727	0.6120	0.7253	0.0571	0.3511	0.0787	0.4840
43	15.32	-0.07	0.0494	0.0133	0.0311	0.2692	0.6288	0.7419	0.0586	0.3575	0.0763	0.4819
44	15.64	-0.08	0.0465	0.0130	0.0304	0.2796	0.6536	0.7632	0.0562	0.3653	0.0736	0.4787
45	15.99	-0.09	0.0478	0.0132	0.0318	0.2762	0.6658	0.7660	0.0558	0.3678	0.0728	0.4802
46	16.30	-0.10	0.0506	0.0142	0.0326	0.2806	0.6435	0.7647	0.0557	0.3775	0.0710	0.4810

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 2 0.92 1.7 0.0 B2W0F16 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CNF3	LH3	C03	XCFF3	YCF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.65	-0.09	0.0475	0.0139	0.0325	0.2926	0.6932	0.7922	0.0534	0.3805	0.0699	0.4803
48	16.96	-0.08	0.0451	0.0128	0.0297	0.2858	0.6592	0.8060	0.0554	0.3866	0.0687	0.4796
49	17.30	-0.10	0.0449	0.0131	0.0317	0.2918	0.7052	0.8114	0.0555	0.3883	0.0684	0.4785
50	17.62	-0.08	0.0454	0.0123	0.0297	0.2709	0.6548	0.8133	0.0553	0.3926	0.0680	0.4827
51	17.96	-0.09	0.0466	0.0127	0.0325	0.2725	0.6937	0.8100	0.0555	0.3908	0.0685	0.4825
52	18.29	-0.09	0.0434	0.0130	0.0320	0.2595	0.7364	0.8221	0.0552	0.3969	0.0671	0.4828
53	18.62	-0.10	0.0466	0.0127	0.0321	0.2725	0.6894	0.8200	0.0546	0.3978	0.0659	0.4804
54	18.97	-0.10	0.0523	0.0137	0.0341	0.2620	0.6525	0.8148	0.0552	0.3915	0.0677	0.4805
55	19.26	-0.09	0.0536	0.0141	0.0354	0.2631	0.6597	0.8411	0.0547	0.4037	0.0650	0.4799
56	19.60	-0.09	0.0567	0.0148	0.0359	0.2610	0.6330	0.8654	0.0540	0.4142	0.0624	0.4786
57	19.94	-0.09	0.0434	0.0124	0.0320	0.2825	0.7296	0.8381	0.0547	0.4006	0.0653	0.4779
58	20.28	-0.09	0.0508	0.0140	0.0355	0.2756	0.6994	0.8540	0.0544	0.4099	0.0637	0.4799
59	20.61	-0.10	0.0567	0.0149	0.0365	0.2628	0.6436	0.8305	0.0540	0.4084	0.0646	0.4883
60	20.97	-0.10	0.0553	0.0142	0.0370	0.2568	0.6696	0.7993	0.0560	0.3809	0.0708	0.4766
61	21.28	-0.11	0.0529	0.0128	0.0346	0.2420	0.6546	0.7562	0.0574	0.3763	0.0759	0.4766
62	21.59	-0.09	0.0553	0.0135	0.0354	0.2419	0.6343	0.7341	0.0557	0.3912	0.0701	0.4926
63	21.91	-0.09	0.0594	0.0135	0.0361	0.2733	0.7300	0.8442	0.0543	0.4098	0.0643	0.4854
64	22.21	-0.11	0.0496	0.0131	0.0358	0.2641	0.7223	0.7995	0.0566	0.3954	0.0708	0.4946
65	22.53	-0.12	0.0610	0.0153	0.0399	0.2508	0.6545	0.8814	0.0538	0.4201	0.0610	0.4766
66	22.83	-0.10	0.0544	0.0131	0.0356	0.2408	0.6549	0.8204	0.0565	0.4049	0.0689	0.4935
67	23.16	-0.11	0.0595	0.0148	0.0412	0.2487	0.6929	0.8100	0.0574	0.4029	0.0709	0.4974
68	23.46	-0.11	0.0604	0.0163	0.0427	0.2699	0.7074	0.9125	0.0514	0.4447	0.0569	0.4873
69	23.78	-0.10	0.0612	0.0152	0.0399	0.2484	0.6518	0.8747	0.0547	0.4257	0.0625	0.4866
70	24.12	-0.12	0.0594	0.0152	0.0413	0.2559	0.6952	0.8825	0.0547	0.4285	0.0620	0.4855
71	24.41	-0.11	0.0612	0.0145	0.0402	0.2435	0.6567	0.8852	0.0543	0.4333	0.0613	0.4895
72	24.74	-0.09	0.0600	0.0143	0.0393	0.2383	0.6549	0.9058	0.0539	0.4383	0.0595	0.4839
73	25.05	-0.10	0.0555	0.0140	0.0391	0.2523	0.7044	0.8827	0.0552	0.4332	0.0625	0.4908
74	25.33	-0.12	0.0611	0.0151	0.0420	0.2471	0.6867	0.8949	0.0549	0.4404	0.0613	0.4921
75	25.62	-0.10	0.0596	0.0146	0.0422	0.2483	0.7074	0.9047	0.0550	0.4444	0.0608	0.4912
76	25.93	-0.10	0.0569	0.0144	0.0407	0.2551	0.7146	0.9242	0.0545	0.4535	0.0587	0.4881
77	26.22	-0.12	0.0613	0.0148	0.0418	0.2414	0.6823	0.9351	0.0539	0.4566	0.0576	0.4883
78	26.53	-0.12	0.0637	0.0161	0.0452	0.2527	0.7100	0.9381	0.0540	0.4624	0.0576	0.4929
79	26.83	-0.12	0.0553	0.0139	0.0407	0.2514	0.7365	0.9501	0.0539	0.4615	0.0567	0.4857
80	27.14	-0.12	0.0562	0.0149	0.0433	0.2651	0.7709	0.9608	0.0529	0.4748	0.0546	0.4901
81	27.46	-0.12	0.0607	0.0152	0.0444	0.2504	0.7319	0.9766	0.0529	0.4766	0.0542	0.4880
82	27.75	-0.11	0.0540	0.0150	0.0438	0.2542	0.7417	0.9828	0.0519	0.4811	0.0528	0.4895
83	28.09	-0.12	0.0585	0.0157	0.0445	0.2684	0.7674	0.9904	0.0516	0.4845	0.0521	0.4892
84	28.39	-0.10	0.0614	0.0153	0.0452	0.2492	0.7355	0.9905	0.0514	0.4866	0.0519	0.4893
85	28.72	-0.11	0.0555	0.0148	0.0428	0.2661	0.7711	0.9952	0.0510	0.4868	0.0512	0.4892
86	29.04	-0.10	0.0679	0.0172	0.0495	0.2533	0.7294	0.9986	0.0508	0.4911	0.0509	0.4918
87	29.38	-0.09	0.0577	0.0154	0.0472	0.2669	0.8165	1.0070	0.0504	0.4921	0.0500	0.4887
88	29.61	-0.03	0.0619	0.0161	0.0481	0.2601	0.7775	1.0091	0.0499	0.4950	0.0495	0.4906

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	3	0.97	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.37	-0.02	-0.3807	1.0838	0.1451	-0.1881	-0.0050	0.2222	-2.8473		
2	-1.77	-0.01	-0.3026	0.8495	0.0385	-0.0079	-0.0060	0.2252	-2.8078		
3	-1.37	-0.04	-0.2137	0.5971	0.0748	-0.1677	-0.0020	0.2291	-2.7945		
4	-0.77	-0.03	-0.1007	0.3509	0.0473	-0.2122	-0.0020	0.2345	-3.4854		
5	-0.25	-0.06	-0.0198	0.1147	0.0077	-0.1118	-0.0010	0.2304	-5.7939		
6	0.29	0.0	0.0686	-0.0980	0.0579	-0.1540	-0.0030	0.2355	-1.4292		
7	0.80	-0.07	0.1428	-0.3129	0.1144	-0.2461	-0.0030	0.2365	-2.1913		
8	1.31	-0.11	0.2581	-0.5713	0.0500	-0.2350	-0.0020	0.2392	-2.2136		
9	1.80	-0.02	0.3345	-0.7712	0.1152	-0.2063	-0.0030	0.2370	-2.3058		
10	2.29	-0.03	0.4375	-1.0485	0.0662	-0.1665	-0.0050	0.2352	-2.3963		
11	2.75	-0.01	0.5215	-1.3661	0.1520	-0.2018	-0.0050	0.2451	-2.6193		
12	3.25	-0.01	0.6582	-1.6594	0.1224	-0.2303	-0.0050	0.2456	-2.5211		
13	3.69	-0.01	0.7128	-1.9308	0.0978	-0.1329	-0.0080	0.2481	-2.7087		
14	4.13	-0.06	0.7487	-2.1580	0.0336	-0.2250	-0.0060	0.2555	-2.7020		
15	4.61	-0.13	0.9461	-2.5333	0.0532	-0.2814	-0.0020	0.2526	-2.6746		
16	5.05	-0.05	0.9744	-2.6879	-0.0051	-0.0808	0.0070	0.2573	-2.7566		
17	5.50	-0.12	1.1140	-3.0123	0.2269	-0.2666	0.0	0.2539	-2.7042		
18	5.92	-0.05	1.1872	-3.3429	0.0372	-0.2580	0.0010	0.2628	-2.8157		
19	6.37	-0.05	1.2647	-3.6234	0.1676	-0.1596	-0.0070	0.2685	-2.8203		
20	6.83	-0.04	1.4052	-3.9180	0.0795	-0.0039	-0.0060	0.2736	-2.7882		
21	7.28	-0.02	1.4736	-4.1058	0.0814	-0.1899	0.0010	0.2781	-2.7662		
22	7.70	-0.09	1.5538	-4.2780	-0.0320	-0.0352	0.0040	0.2755	-2.7533		
23	8.16	-0.12	1.6541	-4.4564	-0.0167	-0.1946	0.0140	0.2683	-2.6942		
24	8.58	-0.11	1.6616	-4.5649	-0.0237	-0.0762	0.0230	0.2650	-2.7473		
25	8.98	-0.10	1.7210	-4.5701	-0.0801	0.1051	0.0330	0.2588	-2.6555		
26	9.39	-0.03	1.8225	-4.6022	0.1462	0.0203	0.0180	0.2505	-2.5253		
27	9.82	-0.07	1.7603	-4.6611	-0.0607	0.0300	0.0570	0.2561	-2.6474		
28	10.21	-0.03	1.8589	-4.7921	-0.0273	0.1802	0.0490	0.2580	-2.5780		
29	10.61	-0.12	1.9097	-4.8264	-0.0081	0.1033	0.0370	0.2575	-2.5272		
30	11.02	-0.11	1.9476	-4.6235	-0.0429	-0.1699	-0.0100	0.2553	-2.3739		
31	11.40	-0.02	2.0092	-4.7277	-0.0031	-0.2636	-0.0290	0.2629	-2.3530		
32	11.76	-0.07	2.0514	-4.8727	0.0884	-0.2037	-0.0400	0.2571	-2.3753		
33	12.11	-0.12	2.1403	-5.0332	0.0902	-0.1063	-0.0300	0.2644	-2.3516		
34	12.50	-0.09	2.1143	-4.8188	0.1074	-0.2403	-0.0260	0.2667	-2.2791		
35	12.84	-0.08	2.1460	-4.9312	0.0006	-0.1708	-0.0280	0.2627	-2.2978		
36	13.21	-0.08	2.2498	-5.0425	0.0128	-0.0719	-0.0280	0.2597	-2.2413		
37	13.57	-0.07	2.3294	-5.2519	0.0368	-0.1325	-0.0290	0.2538	-2.2546		
38	13.93	-0.12	2.4051	-5.3659	0.1141	-0.1367	-0.0320	0.2642	-2.2310		
39	14.25	-0.12	2.4423	-5.5249	-0.0713	-0.0172	-0.0320	0.2517	-2.2622		
40	14.63	-0.14	2.4852	-5.6040	-0.1399	0.0579	-0.0210	0.2459	-2.2550		
41	14.96	-0.11	2.6545	-5.9279	-0.0215	-0.0179	-0.0350	0.2491	-2.2332		
42	15.31	-0.07	2.7267	-6.0701	0.0146	-0.0344	-0.0370	0.2295	-2.2262		
43	15.66	-0.11	2.8440	-6.2303	-0.0984	0.0318	-0.0380	0.2176	-2.1907		
44	15.97	-0.05	2.8826	-6.3934	0.1555	0.0147	-0.0480	0.2188	-2.2179		
45	16.30	-0.14	3.0127	-6.5845	-0.0465	0.0107	-0.0460	0.2158	-2.1856		
46	16.63	-0.09	3.0665	-6.6878	-0.0981	0.0893	-0.0450	0.2179	-2.1809		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	3.0	97	1.7	0.0	B2WOF16	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CLY	CLN	CLL	CAF	XCP	
47	16.97	-0.12	3.1719	-6.8173	-0.0208	0.0941	-0.0540	0.2119	-2.1493	
48	17.28	-0.12	3.2047	-6.9422	0.0288	-0.0343	-0.0520	0.2028	-2.1663	
49	17.61	-0.12	3.2787	-6.9608	-0.2132	0.2794	-0.0560	0.1997	-2.1231	
50	17.94	-0.09	3.3452	-7.0839	-0.0538	0.0693	-0.0560	0.1969	-2.1177	
51	18.25	-0.12	3.4233	-7.2672	-0.1127	-0.0902	-0.0560	0.1840	-2.1229	
52	18.62	-0.10	3.5139	-7.3442	-0.0953	0.2144	-0.0510	0.1880	-2.0900	
53	18.95	-0.09	3.5746	-7.3412	0.0244	0.0728	-0.0580	0.1657	-2.0537	
54	19.27	-0.07	3.6232	-7.3712	-0.0676	0.2866	-0.0570	0.1668	-2.0344	
55	19.60	-0.11	3.7489	-7.5042	-0.0196	0.2584	-0.0640	0.1627	-2.0017	
56	19.94	-0.08	3.7985	-7.5296	0.0044	0.2678	-0.0680	0.1490	-1.9823	
57	20.26	-0.07	3.8970	-7.6565	-0.0431	0.2693	-0.0650	0.1535	-1.9647	
58	20.58	-0.14	3.9110	-7.6261	-0.1383	0.0696	-0.0640	0.1341	-1.9494	
59	20.96	-0.12	4.0758	-7.7028	-0.0816	0.1022	-0.0740	0.1349	-1.8849	
60	21.27	-0.10	4.0870	-7.7415	-0.1033	0.2106	-0.0780	0.1261	-1.8942	
61	21.61	-0.11	4.1867	-7.7091	-0.0573	0.1422	-0.0800	0.1199	-1.8413	
62	21.91	-0.10	4.1956	-7.6875	-0.0282	0.2075	-0.0850	0.1104	-1.8323	
63	22.22	-0.12	4.2880	-7.7430	0.0161	0.0155	-0.0750	0.1133	-1.8057	
64	22.53	-0.10	4.3256	-7.6507	0.1291	-0.0587	-0.0990	0.1053	-1.7687	
65	22.87	-0.10	4.4025	-7.6153	-0.0051	-0.0609	-0.1100	0.0943	-1.7298	
66	23.18	-0.08	4.4581	-7.6452	-0.0188	-0.1077	-0.0390	0.0984	-1.7149	
67	23.52	-0.18	4.5407	-7.5188	-0.0886	-0.1659	-0.0710	0.0818	-1.6559	
68	23.82	-0.11	4.5525	-7.4624	0.0607	-0.1200	-0.0980	0.0970	-1.6342	
69	24.14	-0.13	4.6874	-7.3552	0.1010	-0.1194	-0.0130	0.0939	-1.5649	
70	24.48	-0.11	4.6285	-7.2658	-0.0222	-0.1069	-0.1240	0.0837	-1.5698	
71	24.80	-0.12	4.7618	-7.2414	-0.1108	-0.0409	-0.2190	0.0852	-1.5207	
72	25.12	-0.09	4.7659	-7.0422	0.0566	-0.0652	-0.0610	0.0760	-1.4776	
73	25.39	-0.10	4.7714	-6.9799	0.0787	-0.1632	-0.0400	0.0639	-1.4629	
74	25.71	-0.13	4.9927	-7.0588	0.0262	-0.0995	-0.0540	0.0666	-1.4138	
75	26.01	-0.12	5.0045	-6.8524	-0.0153	0.0524	-0.0770	0.0640	-1.3692	
76	26.33	-0.11	5.0711	-6.6586	-0.0294	-0.1058	-0.1160	0.0653	-1.3130	
77	26.63	-0.12	5.1606	-6.5690	0.0794	-0.2011	-0.0290	0.0575	-1.2729	
78	26.93	-0.12	5.1674	-6.4655	0.0082	0.0485	-0.0500	0.0485	-1.2512	
79	27.26	-0.10	5.2666	-6.4004	0.0531	-0.0833	-0.0290	0.0414	-1.2153	
80	27.56	-0.12	5.3345	-6.4124	-0.0642	0.2019	-0.0670	0.0412	-1.2021	
81	27.87	-0.11	5.4379	-6.3922	0.0515	-0.0211	-0.0140	0.0388	-1.1755	
82	28.17	-0.11	5.4605	-6.1579	0.0685	0.0671	-0.0190	0.0337	-1.1277	
83	28.51	-0.10	5.6437	-6.1014	0.0947	-0.2066	0.0210	0.0285	-1.0811	
84	28.81	-0.13	5.6273	-5.9414	0.0170	-0.0278	-0.0350	0.0209	-1.0558	
85	29.13	-0.12	5.8105	-6.0080	0.6692	-0.1129	-0.0270	0.0108	-1.0340	
86	29.46	-0.12	5.9723	-5.9936	0.0783	-0.0586	0.0150	0.0135	-1.0036	
87	29.70	-0.10	5.9117	-6.0067	0.1126	-0.1186	-0.0090	0.0132	-1.0161	
88	29.74	-0.09	6.0605	-5.8071	0.0197	0.1484	-0.0270	0.0094	-0.9582	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	3	0.97	1.7	0.0	0.240	0.16	0.0	0	0	0	0	FIELD
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XLCPF1	YLCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.37	-0.02	0.0315	0.0014	0.0082	0.0444	0.2002	-0.1344	-0.0469	-0.0737	0.3490	0.5482
2	-1.77	-0.01	0.0275	0.0014	0.0073	0.0509	0.2641	-0.1014	-0.0368	-0.0604	0.3629	0.5955
3	-1.37	-0.04	0.0274	0.0011	0.0063	0.0401	0.2310	-0.0717	-0.0238	-0.0460	0.3598	0.6414
4	-0.77	-0.03	0.0306	0.0016	0.0062	0.0523	0.2025	-0.0302	-0.0145	-0.0260	0.4801	0.7259
5	-0.25	-0.06	0.0370	0.0036	0.0108	0.0973	0.2927	0.0024	-0.0038	-0.0085	1.5833	3.5418
6	0.29	0.0	0.0312	0.0029	0.0053	0.0529	0.2980	0.0309	0.0051	0.0046	0.1382	0.1245
7	0.60	-0.07	0.0360	0.0043	0.0120	0.1194	0.3332	0.0681	0.0144	0.0204	0.2115	0.2994
8	1.31	-0.11	0.0406	0.0052	0.0119	0.1275	0.2915	0.1110	0.0262	0.0397	0.2360	0.3575
9	1.80	-0.02	0.0266	0.0020	0.0073	0.0752	0.2731	0.1334	0.0353	0.0509	0.2646	0.3812
10	2.29	-0.03	0.0362	0.0030	0.0133	0.0829	0.3664	0.1798	0.0511	0.0732	0.2842	0.4072
11	2.75	-0.01	0.0321	0.0031	0.0130	0.0966	0.4049	0.2263	0.0603	0.0914	0.2665	0.4039
12	3.25	-0.01	0.0373	0.0043	0.0123	0.1153	0.3305	0.2634	0.0673	0.1082	0.2555	0.4107
13	3.69	-0.01	0.0269	0.0030	0.0106	0.1115	0.3927	0.3048	0.0726	0.1254	0.2382	0.4113
14	4.13	-0.06	0.0301	0.0039	0.0121	0.1296	0.4030	0.3325	0.0760	0.1384	0.2286	0.4162
15	4.61	-0.13	0.0280	0.0032	0.0127	0.1143	0.4546	0.3801	0.0833	0.1575	0.2113	0.4142
16	5.05	-0.05	0.0364	0.0033	0.0124	0.0907	0.3415	0.4062	0.0822	0.1745	0.2024	0.4295
17	5.50	-0.12	0.0371	0.0033	0.0165	0.0889	0.4545	0.4483	0.0635	0.1899	0.1863	0.4236
18	5.92	-0.05	0.0351	0.0023	0.0160	0.0655	0.4557	0.4957	0.0847	0.2140	0.1709	0.4317
19	6.37	-0.05	0.0245	0.0004	0.0126	0.0163	0.5128	0.5279	0.0667	0.2297	0.1642	0.4351
20	6.83	-0.04	0.0245	0.0004	0.0126	0.0164	0.5176	0.5628	0.0825	0.2436	0.1590	0.4329
21	7.28	-0.02	0.0313	0.0006	0.0141	0.0192	0.4514	0.5877	0.0926	0.2596	0.1576	0.4418
22	7.70	-0.09	0.0240	0.0003	0.0148	0.0125	0.6165	0.6106	0.0901	0.2715	0.1607	0.4446
23	8.16	-0.12	0.0267	0.0004	0.0154	0.0150	0.5767	0.6263	0.1007	0.2800	0.1608	0.4471
24	8.58	-0.11	0.0291	0.0003	0.0167	0.0103	0.5738	0.6388	0.1009	0.2864	0.1673	0.4483
25	8.98	-0.10	0.0238	0.0	0.0147	0.0	0.6169	0.6241	0.1141	0.2839	0.1628	0.4548
26	9.39	-0.03	0.0202	0.0008	0.0152	0.0396	0.7540	0.6088	0.1181	0.2786	0.1940	0.4576
27	9.82	-0.07	0.0077	0.0009	0.0081	0.1169	1.0475	0.6086	0.1176	0.2767	0.1932	0.4546
28	10.21	-0.03	0.0112	0.0003	0.0091	0.0268	0.8154	0.6382	0.1180	0.2908	0.1849	0.4556
29	10.61	-0.12	0.0060	0.0003	0.0074	0.0500	1.2332	0.6604	0.1182	0.3008	0.1790	0.4554
30	11.02	-0.11	0.0255	-0.0028	0.0166	-0.1098	0.6509	0.6607	0.1168	0.3138	0.1701	0.4570
31	11.40	-0.02	0.0287	-0.0032	0.0218	-0.1115	0.7583	0.7264	0.1171	0.3302	0.1612	0.4546
32	11.76	-0.07	0.0194	-0.0042	0.0137	-0.2165	0.7043	0.7450	0.1174	0.3371	0.1576	0.4525
33	12.11	-0.12	0.0137	-0.0047	0.0129	-0.3431	0.9391	0.7678	0.1170	0.3452	0.1524	0.4497
34	12.50	-0.09	0.0190	-0.0048	0.0127	-0.2526	0.6701	0.7213	0.0787	0.3121	0.1091	0.4328
35	12.84	-0.08	0.0122	-0.0051	0.0109	-0.4180	0.8906	0.7328	0.0746	0.3164	0.1018	0.4317
36	13.21	-0.08	0.0101	-0.0059	0.0115	-0.5842	1.1352	0.7456	0.0713	0.3207	0.0956	0.4302
37	13.57	-0.07	0.0011	-0.0061	0.0061	-5.5455	5.5150	0.7714	0.0701	0.3324	0.0909	0.4310
38	13.93	-0.12	0.0144	-0.0058	0.0102	-0.4028	0.7382	0.7939	0.0662	0.3437	0.0834	0.4330
39	14.25	-0.12	0.0015	-0.0061	0.0037	-4.0667	2.4665	0.8139	0.0646	0.3513	0.0794	0.4316
40	14.63	-0.14	-0.0001	-0.0056	0.0076	56.0000	-75.6667	0.8328	0.0619	0.3591	0.0743	0.4312
41	14.96	-0.11	-0.0112	-0.0074	-0.0016	0.6607	0.1457	0.8604	0.0591	0.3725	0.0682	0.4299
42	15.31	-0.07	-0.0069	-0.0067	0.0014	0.9710	-0.2030	0.8930	0.0567	0.3821	0.0635	0.4278
43	15.66	-0.11	-0.0156	-0.0081	-0.0042	0.5192	0.2691	0.9156	0.0544	0.3913	0.0594	0.4274
44	15.97	-0.05	-0.0173	-0.0085	-0.0040	0.4413	0.2292	0.9279	0.0542	0.3970	0.0584	0.4276
45	16.30	-0.14	-0.0198	-0.0089	-0.0089	0.4495	0.4494	0.9676	0.0524	0.4121	0.0542	0.4259
46	16.63	-0.09	-0.0231	-0.0092	-0.0061	0.3583	0.2640	0.9828	0.0515	0.4185	0.0524	0.4258

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	3	0.97	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	16.97	-0.12	-0.0229	-0.0094	-0.0093	0.4105	0.4075	1.0110	0.0506	0.4290	0.0500	0.4243
48	17.28	-0.12	-0.0324	-0.0118	-0.0137	0.3642	0.4227	1.0154	0.0498	0.4340	0.0490	0.4275
49	17.61	-0.12	-0.0315	-0.0117	-0.0091	0.3714	0.2888	1.0366	0.0492	0.4422	0.0475	0.4266
50	17.94	-0.09	-0.0345	-0.0112	-0.0151	0.3246	0.4376	1.0487	0.0492	0.4457	0.0469	0.4250
51	18.25	-0.12	-0.0368	-0.0131	-0.0202	0.3560	0.5479	1.0681	0.0486	0.4539	0.0455	0.4250
52	18.62	-0.10	-0.0315	-0.0109	-0.0153	0.3400	0.4856	1.0775	0.0482	0.4562	0.0447	0.4234
53	18.95	-0.09	-0.0453	-0.0138	-0.0111	0.3046	0.2449	1.0958	0.0476	0.4668	0.0434	0.4260
54	19.27	-0.07	-0.0383	-0.0123	-0.0134	0.3211	0.3469	1.1042	0.0474	0.4709	0.0429	0.4265
55	19.60	-0.11	-0.0405	-0.0147	-0.0222	0.3030	0.5480	1.1265	0.0471	0.4808	0.0418	0.4268
56	19.94	-0.08	-0.0420	-0.0147	-0.0208	0.3500	0.4951	1.1289	0.0467	0.4804	0.0414	0.4255
57	20.26	-0.07	-0.0460	-0.0148	-0.0226	0.3217	0.4919	1.1485	0.0461	0.4895	0.0401	0.4262
58	20.58	-0.14	-0.0577	-0.0181	-0.0260	0.3137	0.4511	1.1535	0.0464	0.4893	0.0402	0.4242
59	20.96	-0.12	-0.0550	-0.0166	-0.0271	0.3018	0.4932	1.1729	0.0459	0.5001	0.0391	0.4264
60	21.27	-0.10	-0.0662	-0.0198	-0.0330	0.2591	0.4979	1.1717	0.0457	0.4981	0.0390	0.4251
61	21.61	-0.11	-0.0446	-0.0161	-0.0310	0.3610	0.6442	1.1854	0.0461	0.5034	0.0389	0.4247
62	21.91	-0.10	-0.0616	-0.0197	-0.0368	0.3198	0.5478	1.1814	0.0459	0.5003	0.0389	0.4234
63	22.22	-0.12	-0.0266	-0.0129	-0.0230	0.4850	0.8633	1.1870	0.0460	0.5041	0.0388	0.4247
64	22.53	-0.10	-0.0198	-0.0140	-0.0187	0.7071	0.9443	1.2050	0.0453	0.5148	0.0376	0.4272
65	22.87	-0.10	-0.0124	-0.0121	-0.0182	0.5380	1.4107	1.1971	0.0461	0.5045	0.0385	0.4214
66	23.18	-0.08	-0.0129	-0.0101	-0.0165	0.7829	1.2790	1.2085	0.0455	0.5125	0.0376	0.4241
67	23.52	-0.18	-0.0085	-0.0113	-0.0155	1.3294	1.8273	1.1840	0.0462	0.5040	0.0390	0.4257
68	23.82	-0.11	-0.0085	-0.0118	-0.0178	1.3882	2.0979	1.2029	0.0454	0.5099	0.0377	0.4239
69	24.14	-0.13	0.0206	-0.0047	-0.0078	-0.2282	-0.3804	1.1705	0.0460	0.4951	0.0393	0.4230
70	24.46	-0.11	-0.0282	-0.0184	-0.0233	0.6525	0.8261	1.2335	0.0442	0.5284	0.0358	0.4284
71	24.80	-0.12	-0.0574	-0.0214	-0.0279	0.3728	0.4865	1.2535	0.0440	0.5283	0.0351	0.4214
72	25.12	-0.09	-0.0085	-0.0117	-0.0181	1.3765	2.1332	1.1790	0.0448	0.4994	0.0380	0.4235
73	25.39	-0.10	0.0239	0.0001	-0.0037	0.0042	-0.1563	1.1401	0.0459	0.4761	0.0403	0.4193
74	25.71	-0.13	0.0288	-0.0005	-0.0033	-0.0174	-0.1147	1.1617	0.0454	0.4847	0.0391	0.4172
75	26.01	-0.12	-0.0015	-0.0095	-0.0160	6.3333	10.6665	1.1779	0.0446	0.4978	0.0379	0.4226
76	26.33	-0.11	-0.0196	-0.0100	-0.0153	0.5051	0.7726	1.1902	0.0449	0.5006	0.0377	0.4206
77	26.63	-0.12	0.0542	0.0036	0.0120	0.0664	0.2207	1.1476	0.0435	0.4820	0.0396	0.4200
78	26.93	-0.12	0.0169	-0.0014	-0.0019	-0.0828	-0.1106	1.1494	0.0435	0.4802	0.0396	0.4178
79	27.26	-0.10	0.0329	-0.0006	-0.0053	-0.0182	0.1600	1.1394	0.0437	0.4732	0.0401	0.4153
80	27.56	-0.12	0.0102	-0.0006	-0.00051	-0.3529	-0.5001	1.1667	0.0443	0.4879	0.0379	0.4175
81	27.87	-0.11	0.0665	0.0035	0.0123	0.0526	0.1843	1.1455	0.0454	0.4815	0.0396	0.4203
82	28.17	-0.11	0.0232	-0.0025	-0.0036	-0.1078	-0.1539	1.1459	0.0458	0.4799	0.0400	0.4188
83	28.51	-0.10	0.0859	0.0053	0.0217	0.0617	0.2529	1.1467	0.0456	0.4811	0.0398	0.4195
84	28.81	-0.13	0.0686	0.0062	0.0235	0.0904	0.3420	1.1443	0.0455	0.4817	0.0398	0.4210
85	29.13	-0.12	0.0522	0.0019	0.0094	0.0364	0.1800	1.1581	0.0455	0.4851	0.0393	0.4189
86	29.46	-0.12	0.0899	0.0156	0.0517	0.1735	0.5746	1.1671	0.0457	0.4875	0.0392	0.4177
87	29.70	-0.10	0.0529	0.0021	0.0059	0.0397	0.1120	1.1764	0.0449	0.4952	0.0382	0.4209
88	29.74	-0.09	0.0704	0.0072	0.0256	0.1023	0.3630	1.1855	0.0445	0.4963	0.0375	0.4187

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	3	0.97	1.7	0.0	B2NOF16	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-2.37	-0.02	0.0150	0.0066	0.0153	0.4600	1.0199	-0.2361	-0.0450	-0.0560	0.1890	0.2354
2	-1.77	-0.01	0.0202	0.0083	0.0164	0.4109	0.8134	-0.2045	-0.0336	-0.0413	0.1643	0.2022
3	-1.37	-0.04	0.0215	0.0084	0.0178	0.3907	0.8262	-0.1690	-0.0211	-0.0239	0.1249	0.1415
4	-0.77	-0.03	0.0202	0.0079	0.0172	0.3911	0.8330	-0.1289	-0.0111	-0.0054	0.0861	0.0415
5	-0.25	-0.06	0.0176	0.0073	0.0165	0.4148	0.9355	-0.0896	-0.0026	0.0101	0.0290	-0.1132
6	0.29	0.0	0.0199	0.0082	0.0190	0.4121	0.9563	-0.0575	0.0053	0.0256	-0.0922	-0.4459
7	0.80	-0.07	0.0228	0.0082	0.0194	0.3596	0.8508	-0.0192	0.0134	0.0394	-0.6979	-2.0522
8	1.31	-0.11	0.0214	0.0079	0.0195	0.3692	0.9127	0.0202	0.0236	0.0577	1.1683	2.8580
9	1.80	-0.02	0.0211	0.0081	0.0211	0.3839	1.0015	0.0578	0.0357	0.0745	0.6176	1.2882
10	2.29	-0.03	0.0254	0.0084	0.0209	0.3307	0.8214	0.0915	0.0461	0.0876	0.5038	0.9573
11	2.75	-0.01	0.0256	0.0078	0.0206	0.3047	0.8059	0.1357	0.0571	0.1076	0.4208	0.7931
12	3.25	-0.01	0.0239	0.0084	0.0218	0.3515	0.9106	0.1695	0.0629	0.1222	0.3711	0.7208
13	3.69	-0.01	0.0216	0.0071	0.0145	0.3287	0.9027	0.2153	0.0693	0.1409	0.3219	0.6546
14	4.13	-0.06	0.0320	0.0092	0.0238	0.2875	0.7426	0.2576	0.0728	0.1580	0.2826	0.6135
15	4.61	-0.13	0.0349	0.0093	0.0234	0.2605	0.6713	0.3038	0.0760	0.1811	0.2502	0.5962
16	5.05	-0.05	0.0270	0.0075	0.0203	0.2426	0.7517	0.3454	0.0760	0.1981	0.2258	0.5735
17	5.50	-0.12	0.0348	0.0095	0.0237	0.2150	0.6809	0.3774	0.0784	0.2128	0.2077	0.5637
18	5.92	-0.05	0.0366	0.0111	0.0243	0.2876	0.6286	0.4236	0.0811	0.2333	0.1915	0.5509
19	6.37	-0.05	0.0397	0.0116	0.0253	0.2922	0.6380	0.4619	0.0851	0.2510	0.1842	0.5434
20	6.83	-0.04	0.0316	0.0109	0.0225	0.3449	0.7130	0.4865	0.0860	0.2659	0.1768	0.5466
21	7.28	-0.02	0.0392	0.0130	0.0264	0.3316	0.6725	0.5281	0.0832	0.2819	0.1670	0.5337
22	7.70	-0.09	0.0379	0.0127	0.0257	0.3351	0.6789	0.5594	0.0903	0.2966	0.1614	0.5302
23	8.16	-0.12	0.0390	0.0131	0.0263	0.3359	0.6742	0.5837	0.0932	0.3106	0.1597	0.5321
24	8.58	-0.11	0.0256	0.0111	0.0228	0.4336	0.8918	0.6084	0.0963	0.3209	0.1583	0.5275
25	8.98	-0.10	0.0323	0.0122	0.0242	0.3777	0.7481	0.6273	0.0983	0.3311	0.1567	0.5279
26	9.39	-0.03	0.0365	0.0124	0.0252	0.3397	0.6894	0.6533	0.1023	0.3416	0.1566	0.5229
27	9.82	-0.07	0.0388	0.0138	0.0274	0.3557	0.7069	0.6768	0.1046	0.3549	0.1546	0.5244
28	10.21	-0.03	0.0442	0.0148	0.0286	0.3348	0.6477	0.6860	0.1091	0.3613	0.1590	0.5267
29	10.61	-0.12	0.0386	0.0141	0.0240	0.3653	0.7503	0.6947	0.1142	0.3654	0.1644	0.5260
30	11.02	-0.11	0.0375	0.0133	0.0244	0.3547	0.7572	0.5950	0.1185	0.3259	0.1992	0.5477
31	11.40	-0.02	0.0441	0.0148	0.0312	0.3376	0.7074	0.6145	0.1176	0.3289	0.1914	0.5352
32	11.76	-0.07	0.0491	0.0160	0.0345	0.3259	0.7100	0.6340	0.1163	0.3369	0.1834	0.5313
33	12.11	-0.12	0.0412	0.0143	0.0323	0.3471	0.7847	0.6668	0.1155	0.3489	0.1732	0.5232
34	12.50	-0.09	0.0451	0.0148	0.0343	0.3282	0.7612	0.6327	0.0741	0.3226	0.1171	0.5099
35	12.84	-0.08	0.0451	0.0147	0.0342	0.3259	0.7589	0.6556	0.0724	0.3311	0.1104	0.5050
36	13.21	-0.08	0.0425	0.0142	0.0328	0.3341	0.7709	0.6579	0.0701	0.3345	0.1066	0.5085
37	13.57	-0.07	0.0505	0.0151	0.0351	0.2990	0.6956	0.6966	0.0679	0.3508	0.0975	0.5036
38	13.93	-0.12	0.0478	0.0145	0.0346	0.3033	0.7244	0.7081	0.0643	0.3513	0.0908	0.4962
39	14.25	-0.12	0.0454	0.0140	0.0316	0.3684	0.6967	0.7359	0.0634	0.3645	0.0889	0.4953
40	14.63	-0.14	0.0314	0.0106	0.0250	0.3376	0.7950	0.7574	0.0624	0.3743	0.0824	0.4942
41	14.96	-0.11	0.0465	0.0145	0.0340	0.3118	0.7311	0.7929	0.0588	0.3908	0.0742	0.4929
42	15.31	-0.07	0.0529	0.0161	0.0367	0.3043	0.6943	0.8130	0.0569	0.4013	0.0700	0.4936
43	15.66	-0.11	0.0378	0.0145	0.0340	0.3836	0.8994	0.8241	0.0556	0.4073	0.0671	0.4919
44	15.97	-0.05	0.0461	0.0149	0.0367	0.3232	0.7953	0.8473	0.0539	0.4161	0.0636	0.4911
45	16.30	-0.14	0.0445	0.0153	0.0368	0.3438	0.8276	0.8831	0.0521	0.4331	0.0590	0.4904
46	16.63	-0.09	0.0536	0.0171	0.0406	0.3190	0.7567	0.8966	0.0511	0.4380	0.0570	0.4885

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6	3	0.97	1.7	0.0	BZWOFL6	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.97	-0.12	0.0481	0.0163	0.0392	0.3389	0.8155	0.9238	0.0506	0.4511	0.0548	0.4883
48	17.28	-0.12	0.0453	0.0157	0.0390	0.3466	0.8608	0.9244	0.0493	0.4533	0.0533	0.4904
49	17.61	-0.12	0.0428	0.0151	0.0372	0.3528	0.8683	0.9398	0.0484	0.4590	0.0515	0.4884
50	17.94	-0.09	0.0519	0.0168	0.0409	0.3237	0.7879	0.9679	0.0478	0.4714	0.0494	0.4871
51	18.25	-0.12	0.0601	0.0178	0.0427	0.2962	0.7109	0.9770	0.0475	0.4763	0.0466	0.4875
52	18.62	-0.10	0.0441	0.0151	0.0380	0.3424	0.8616	0.9938	0.0468	0.4839	0.0471	0.4870
53	18.95	-0.09	0.0576	0.0168	0.0417	0.2917	0.7238	1.0082	0.0465	0.4875	0.0461	0.4836
54	19.27	-0.07	0.0420	0.0135	0.0351	0.3214	0.8356	1.0273	0.0462	0.4952	0.0450	0.4821
55	19.60	-0.11	0.0510	0.0154	0.0397	0.3020	0.7783	1.0399	0.0459	0.5020	0.0441	0.4827
56	19.94	-0.08	0.0539	0.0154	0.0386	0.2857	0.7154	1.0377	0.0452	0.5020	0.0436	0.4837
57	20.26	-0.07	0.0455	0.0147	0.0388	0.3231	0.8519	1.0646	0.0450	0.5123	0.0423	0.4813
58	20.58	-0.14	0.0591	0.0162	0.0412	0.2741	0.6970	1.0496	0.0450	0.5046	0.0429	0.4808
59	20.96	-0.12	0.0521	0.0158	0.0406	0.3033	0.7785	1.0751	0.0450	0.5168	0.0419	0.4807
60	21.27	-0.10	0.0536	0.0154	0.0395	0.2873	0.7362	1.0684	0.0446	0.5149	0.0417	0.4819
61	21.61	-0.11	0.0583	0.0173	0.0447	0.2567	0.7072	1.0856	0.0449	0.5197	0.0414	0.4788
62	21.91	-0.10	0.0638	0.0177	0.0446	0.2774	0.6984	1.0769	0.0447	0.5168	0.0415	0.4799
63	22.22	-0.12	0.0547	0.0162	0.0416	0.2962	0.7610	1.0618	0.0450	0.5106	0.0424	0.4809
64	22.53	-0.10	0.0585	0.0166	0.0447	0.2838	0.7640	1.0423	0.0453	0.4992	0.0435	0.4790
65	22.87	-0.10	0.0681	0.0176	0.0467	0.2584	0.6856	1.0480	0.0454	0.4963	0.0433	0.4755
66	23.18	-0.08	0.0680	0.0181	0.0467	0.2662	0.6862	1.0788	0.0451	0.5163	0.0418	0.4786
67	23.52	-0.18	0.0720	0.0185	0.0489	0.2565	0.6790	1.0526	0.0449	0.5051	0.0427	0.4799
68	23.82	-0.11	0.0654	0.0174	0.0465	0.2661	0.7109	1.0499	0.0451	0.5020	0.0430	0.4782
69	24.19	-0.13	0.0664	0.0180	0.0489	0.2711	0.7368	1.0862	0.0439	0.5271	0.0404	0.4853
70	24.48	-0.11	0.0734	0.0184	0.0495	0.2507	0.6793	1.0112	0.0459	0.4884	0.0454	0.4830
71	24.80	-0.12	0.0758	0.0191	0.0521	0.2520	0.6868	1.0128	0.0457	0.4829	0.0451	0.4768
72	25.12	-0.09	0.0710	0.0177	0.0487	0.2493	0.6853	1.0418	0.0452	0.5057	0.0434	0.4855
73	25.39	-0.10	0.0744	0.0190	0.0530	0.2554	0.7122	1.0967	0.0438	0.5256	0.0399	0.4793
74	25.71	-0.13	0.0693	0.0184	0.0491	0.2655	0.7084	1.1093	0.0434	0.5307	0.0391	0.4784
75	26.01	-0.12	0.0638	0.0175	0.0483	0.2743	0.7564	1.0491	0.0450	0.5101	0.0429	0.4862
76	26.33	-0.11	0.0609	0.0201	0.0552	0.2485	0.6818	1.0592	0.0448	0.5079	0.0423	0.4796
77	26.63	-0.12	0.0754	0.0196	0.0553	0.2599	0.7337	1.0962	0.0438	0.5297	0.0400	0.4832
78	26.93	-0.12	0.0628	0.0166	0.0474	0.2643	0.7552	1.0528	0.0451	0.5126	0.0428	0.4869
79	27.26	-0.10	0.0682	0.0175	0.0495	0.2566	0.7262	1.0397	0.0452	0.5096	0.0435	0.4904
80	27.56	-0.12	0.0576	0.0159	0.0451	0.2760	0.7829	1.0502	0.0451	0.5120	0.0429	0.4876
81	27.87	-0.11	0.0640	0.0171	0.0493	0.2672	0.7707	1.0584	0.0447	0.5192	0.0422	0.4905
82	28.17	-0.11	0.0588	0.0161	0.0475	0.2738	0.8077	1.0487	0.0454	0.5147	0.0433	0.4908
83	28.51	-0.10	0.0750	0.0183	0.0524	0.2440	0.6985	1.0652	0.0453	0.5224	0.0425	0.4905
84	28.81	-0.13	0.0763	0.0182	0.0538	0.2385	0.7054	1.0571	0.0454	0.5170	0.0429	0.4891
85	29.13	-0.12	0.0746	0.0187	0.0559	0.2507	0.7488	1.0728	0.0452	0.5222	0.0421	0.4867
86	29.46	-0.12	0.0630	0.0166	0.0505	0.2635	0.8015	1.0940	0.0442	0.5358	0.0404	0.4898
87	29.70	-0.10	0.0667	0.0176	0.0517	0.2639	0.7755	1.0936	0.0444	0.5343	0.0406	0.4886
88	29.74	-0.09	0.0670	0.0170	0.0501	0.2537	0.7481	1.1046	0.0440	0.5361	0.0398	0.4853

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 4 1.01 1.7 0.0 B2W0F16 0.0 0 0 0 0 FIXED

PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.75	0.0	-0.4613	1.4378	0.0720	-0.1408	0.0010	0.3048	-3.1165
2	-2.49	-0.02	-0.4422	1.2671	-0.0095	-0.2557	-0.0010	0.2981	-2.9103
3	-1.94	-0.02	-0.3337	1.0170	-0.0126	-0.2523	-0.0020	0.3062	-3.0482
4	-1.33	-0.05	-0.2305	0.7236	0.0670	-0.2218	0.0	0.3174	-3.1397
5	-0.76	-0.05	-0.1187	0.4151	-0.0138	-0.1517	-0.0030	0.3166	-3.4977
6	-0.22	-0.01	-0.0136	0.1550	0.0077	-0.1058	0.0	0.3177	-11.4000
7	0.28	-0.01	0.0821	-0.1359	0.0664	-0.2079	0.0010	0.3150	-1.6558
8	0.80	-0.01	0.1693	-0.3450	0.0645	-0.2153	0.0060	0.3112	-2.0379
9	1.29	0.0	0.2645	-0.6362	0.1180	-0.2382	-0.0010	0.3096	-2.4057
10	1.78	-0.01	0.3534	-0.8716	0.0863	-0.2648	0.0010	0.3088	-2.4668
11	2.27	-0.03	0.4752	-1.1883	-0.0793	-0.2309	0.0020	0.3147	-2.5004
12	2.73	-0.03	0.5538	-1.4533	-0.0145	-0.1397	0.0	0.3105	-2.6240
13	3.24	-0.02	0.6688	-1.7622	0.0672	-0.1561	0.0020	0.2881	-2.6349
14	3.68	-0.03	0.7543	-2.0339	0.0193	-0.0480	-0.0020	0.2690	-2.6964
15	4.15	-0.04	0.8913	-2.4156	0.0454	-0.1015	-0.0010	0.2710	-2.7103
16	4.59	-0.05	0.9646	-2.6962	-0.0149	-0.1561	-0.0010	0.2680	-2.7952
17	5.05	-0.03	1.0796	-3.0182	-0.0102	-0.0357	-0.0010	0.2980	-2.7958
18	5.49	-0.01	1.1763	-3.3237	0.0594	-0.2221	0.0010	0.3175	-2.8254
19	5.92	-0.02	1.2648	-3.5735	0.0259	-0.0683	-0.0010	0.3377	-2.8253
20	6.38	-0.01	1.3532	-3.8163	-0.0108	-0.1319	0.0070	0.3372	-2.8201
21	6.82	-0.03	1.4572	-4.0708	-0.0435	-0.0681	0.0	0.3343	-2.7936
22	7.28	-0.02	1.5540	-4.2423	-0.0222	-0.1759	0.0060	0.3249	-2.7299
23	7.69	-0.01	1.6303	-4.5531	0.0623	-0.0612	0.0030	0.3345	-2.7928
24	8.14	-0.05	1.6944	-4.8448	-0.0760	-0.0106	0.0050	0.3313	-2.7413
25	8.56	-0.04	1.7640	-4.8962	-0.0403	-0.0376	0.0010	0.3404	-2.7757
26	8.98	-0.03	1.8262	-5.0133	0.0722	-0.0441	0.0010	0.3335	-2.7453
27	9.46	-0.04	1.9341	-5.3195	-0.0274	0.0304	-0.0040	0.3274	-2.7503
28	9.80	-0.03	2.0113	-5.4025	0.0103	0.0396	-0.0020	0.3188	-2.6860
29	10.19	-0.03	2.0848	-5.5754	0.0268	0.0265	-0.0050	0.3168	-2.6743
30	10.59	-0.05	2.1639	-5.8011	-0.0717	0.0244	-0.0070	0.3211	-2.6808
31	10.93	-0.05	2.2485	-5.8765	-0.0438	0.0573	0.0010	0.3104	-2.6135
32	11.37	-0.03	2.2880	-5.9668	0.1074	-0.0074	0.0000	0.3202	-2.6070
33	11.72	-0.04	2.3271	-5.9216	0.0038	0.0617	0.0190	0.3253	-2.5446
34	12.08	-0.08	2.3683	-5.9643	-0.1438	0.2103	0.0300	0.3311	-2.5184
35	12.47	-0.01	2.4285	-5.7965	-0.0223	0.2132	0.0280	0.3266	-2.4693
36	12.81	-0.07	2.5222	-6.1607	-0.0827	0.1878	0.0230	0.3249	-2.4426
37	13.19	-0.08	2.5099	-5.9565	-0.0129	-0.0719	-0.0320	0.3337	-2.3732
38	13.56	-0.10	2.5979	-6.0847	-0.0665	0.0647	-0.0210	0.3226	-2.3422
39	13.92	-0.08	2.5909	-5.8929	0.0080	-0.0522	-0.0880	0.3251	-2.2745
40	14.27	-0.07	2.6634	-5.9714	-0.0770	0.0188	-0.0900	0.3201	-2.2421
41	14.64	-0.07	2.6926	-6.0934	-0.0770	-0.0242	-0.0980	0.3148	-2.2630
42	14.99	-0.05	2.7496	-6.0192	0.0176	-0.0496	-0.0420	0.3152	-2.1891
43	15.35	-0.05	2.8171	-6.1527	-0.0135	-0.0201	-0.0440	0.3144	-2.1840
44	15.67	-0.06	2.8764	-6.1917	-0.0446	0.0064	-0.0410	0.3117	-2.1526
45	16.01	-0.05	2.9524	-6.3621	0.0850	0.1400	-0.0350	0.2993	-2.1549
46	16.34	-0.09	3.0510	-6.4471	-0.0736	0.0090	-0.0470	0.2931	-2.1131

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	4	1.01	1.7	0.0	B2MOF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.66	-0.06	3.1146	-6.6211	-0.0377	0.1058	-0.0440	0.2940	-2.1258		
48	17.00	-0.08	3.2221	-6.7056	-0.0631	0.2103	-0.0470	0.2837	-2.0811		
49	17.31	-0.08	3.2582	-6.8081	-0.0897	0.1016	-0.0500	0.2754	-2.0896		
50	17.63	-0.07	3.3479	-6.9627	-0.0997	0.3265	-0.0450	0.2672	-2.0797		
51	17.97	-0.09	3.4406	-7.0696	-0.0380	0.1043	-0.0550	0.2595	-2.0547		
52	18.30	-0.06	3.4486	-7.1228	0.0400	0.2280	-0.0600	0.2543	-2.0654		
53	18.64	-0.08	3.6120	-7.2955	-0.0697	0.0236	-0.0580	0.2443	-2.0198		
54	18.98	-0.06	3.6599	-7.2956	-0.0696	0.2604	-0.0620	0.2409	-1.9934		
55	19.29	-0.05	3.7152	-7.3710	-0.0022	0.2470	-0.0620	0.2367	-1.9840		
56	19.64	-0.07	3.8610	-7.4551	0.0771	0.2420	-0.0630	0.2307	-1.9309		
57	19.97	-0.07	3.9298	-7.5284	-0.0066	0.3452	-0.0670	0.2354	-1.9157		
58	20.31	-0.10	4.0452	-7.5770	-0.0901	0.1171	-0.0660	0.2219	-1.8731		
59	20.64	-0.09	4.0983	-7.6443	0.0809	0.0807	-0.0730	0.2225	-1.8653		
60	21.00	-0.08	4.2116	-7.6721	-0.0287	0.2851	-0.0790	0.2230	-1.8216		
61	21.32	-0.09	4.2766	-7.7001	-0.1495	0.4032	-0.0950	0.2202	-1.8005		
62	21.63	-0.07	4.3604	-7.7434	-0.0381	0.4143	-0.0820	0.2120	-1.7758		
63	21.95	-0.10	4.4431	-7.7932	0.0456	-0.0638	-0.0760	0.2026	-1.7540		
64	22.26	-0.11	4.5420	-7.8856	-0.0817	0.1634	-0.0770	0.1987	-1.7172		
65	22.58	-0.07	4.5792	-7.9747	-0.0310	0.3654	-0.0920	0.2031	-1.7415		
66	22.93	-0.11	4.7165	-7.8969	-0.0813	0.1628	-0.0770	0.1861	-1.6743		
67	23.23	-0.10	4.7127	-8.0006	0.0544	0.0278	-0.0780	0.1875	-1.6977		
68	23.53	-0.12	4.8492	-8.0217	0.0351	-0.0221	-0.0780	0.1832	-1.6542		
69	23.89	-0.10	4.9684	-8.0125	0.0664	-0.0020	-0.0650	0.1771	-1.6127		
70	24.22	-0.12	5.0341	-8.0127	-0.0310	0.1714	-0.0990	0.1780	-1.5917		
71	24.54	-0.12	5.1626	-7.9166	-0.0498	0.2027	-0.1000	0.1730	-1.5334		
72	24.87	-0.12	5.2347	-7.9075	0.0444	-0.0921	-0.0750	0.1720	-1.5106		
73	25.20	-0.09	5.3078	-7.8069	0.0730	0.2668	-0.1160	0.1614	-1.4708		
74	25.43	-0.12	5.3065	-7.8201	-0.0411	0.1035	-0.0830	0.1550	-1.4737		
75	25.79	-0.09	5.4394	-7.7011	-0.0464	0.3659	-0.1140	0.1462	-1.4158		
76	26.11	-0.12	5.5330	-7.6757	0.0670	0.0162	-0.0810	0.1425	-1.3872		
77	26.35	-0.09	5.5872	-7.6711	0.0319	0.2213	-0.1040	0.1380	-1.3730		
78	26.67	-0.11	5.7280	-7.5692	0.1559	-0.2092	-0.0510	0.1277	-1.3214		
79	27.03	-0.11	5.8560	-7.5315	-0.0284	0.3117	-0.1170	0.1242	-1.2861		
80	27.35	-0.12	5.9536	-7.5622	0.1326	-0.2636	-0.0590	0.1255	-1.2702		
81	27.67	-0.10	6.0963	-7.4880	0.1190	-0.0476	-0.0810	0.1177	-1.2283		
82	27.95	-0.11	6.1295	-7.4584	-0.0112	0.2686	-0.0870	0.1127	-1.2168		
83	28.28	-0.13	6.2438	-7.3885	-0.1417	0.3603	-0.1430	0.1146	-1.1833		
84	28.59	-0.12	6.4196	-7.4456	0.0874	-0.1423	-0.0340	0.1100	-1.1598		
85	28.93	-0.11	6.5609	-7.3416	0.0249	0.0651	-0.0520	0.0971	-1.1190		
86	29.24	-0.14	6.5223	-7.1005	0.0621	-0.6439	0.1000	0.1031	-1.0886		
87	29.57	-0.06	6.6855	-7.1510	0.3261	-0.1405	-0.0150	0.0916	-1.0696		
88	29.84	-0.05	6.7828	-7.2212	0.4161	0.0373	-0.0190	0.0786	-1.0646		
89	29.83	-0.10	6.8446	-7.1688	-0.0614	0.1529	-0.0430	0.0855	-1.0474		

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TEST PART	MACH	KX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	4	1.01	1.7	0.0	B2WOF16	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.75	0.0	0.0379	0.0005	0.0049	0.0132	0.1300	-0.1738	-0.0527	-0.0936	0.3032	0.5386
2	-2.49	-0.02	0.0352	0.0004	0.0050	0.0114	0.1429	-0.1542	-0.0483	-0.0848	0.3132	0.5498
3	-1.94	-0.02	0.0394	0.0007	0.0046	0.0178	0.1226	-0.1103	-0.0370	-0.0661	0.3354	0.5989
4	-1.33	-0.05	0.0422	0.0013	0.0068	0.0308	0.1802	-0.0720	-0.0231	-0.0484	0.3208	0.6721
5	-0.76	-0.05	0.0366	0.0007	0.0051	0.0191	0.1392	-0.0306	-0.0126	-0.0312	0.4118	1.0195
6	-0.22	-0.01	0.0353	0.0011	0.0066	0.0312	0.1859	0.0104	-0.0041	-0.0136	-0.3942	-1.3110
7	0.28	-0.01	0.0362	0.0017	0.0079	0.0445	0.2376	0.0463	0.0031	0.0032	0.0670	0.0697
8	0.80	-0.01	0.0440	0.0027	0.0193	0.0614	0.2105	0.0766	0.0093	0.0162	0.1214	0.2118
9	1.29	0.0	0.0367	0.0017	0.0081	0.0463	0.2215	0.1173	0.0198	0.0348	0.1688	0.2966
10	1.76	-0.01	0.0507	0.0039	0.0131	0.0769	0.2583	0.1606	0.0342	0.0528	0.2130	0.3289
11	2.27	-0.03	0.0431	0.0004	0.0106	0.0093	0.2450	0.2013	0.0465	0.0723	0.2310	0.3590
12	2.73	-0.03	0.0369	0.0005	0.0085	0.0136	0.2411	0.2364	0.0537	0.0892	0.2272	0.3772
13	3.24	-0.02	0.0420	0.0019	0.0098	0.0452	0.2332	0.2746	0.0602	0.1042	0.2192	0.3795
14	3.68	-0.03	0.0326	0.0011	0.0085	0.0337	0.2596	0.3255	0.0664	0.1273	0.2040	0.3910
15	4.15	-0.04	0.0316	0.0015	0.0098	0.0475	0.3111	0.3717	0.0713	0.1464	0.1918	0.3991
16	4.59	-0.05	0.0374	0.0025	0.0114	0.0668	0.3038	0.4100	0.0745	0.1630	0.1817	0.3976
17	5.05	-0.03	0.0322	0.0006	0.0098	0.0186	0.3053	0.4472	0.0759	0.1806	0.1697	0.4039
18	5.49	-0.01	0.0383	0.0005	0.0124	0.0131	0.3228	0.4856	0.0775	0.2004	0.1596	0.4127
19	5.92	-0.02	0.0351	-0.0004	0.0109	-0.0114	0.3104	0.5293	0.0774	0.2188	0.1462	0.4133
20	6.38	-0.01	0.0351	-0.0003	0.0095	-0.0005	0.2705	0.5554	0.0776	0.2290	0.1397	0.4123
21	6.82	-0.03	0.0396	-0.0006	0.0116	-0.0152	0.2928	0.6042	0.0791	0.2513	0.1309	0.4160
22	7.28	-0.02	0.0353	-0.0005	0.0136	-0.0142	0.3842	0.6296	0.0805	0.2627	0.1279	0.4172
23	7.69	-0.01	0.0311	-0.0012	0.0115	-0.0306	0.3814	0.6676	0.0819	0.2783	0.1227	0.4168
24	8.14	-0.05	0.0428	0.0	0.0174	0.0	0.4056	0.6918	0.0836	0.2887	0.1208	0.4173
25	8.56	-0.04	0.0338	-0.0008	0.0131	-0.0237	0.3865	0.7236	0.0851	0.3049	0.1176	0.4214
26	8.98	-0.03	0.0362	-0.0006	0.0158	-0.0166	0.4354	0.7427	0.0856	0.3137	0.1153	0.4223
27	9.36	-0.04	0.0218	-0.0016	0.0115	-0.0734	0.5259	0.7787	0.0880	0.3270	0.1130	0.4199
28	9.80	-0.03	0.0337	-0.0006	0.0163	-0.0178	0.4845	0.8009	0.0896	0.3362	0.1119	0.4197
29	10.19	-0.03	0.0233	-0.0017	0.0105	-0.0730	0.4663	0.8265	0.0913	0.3505	0.1105	0.4241
30	10.59	-0.05	0.0168	-0.0021	0.0085	-0.1250	0.5058	0.8509	0.0918	0.3617	0.1079	0.4251
31	10.98	-0.05	0.0168	-0.0017	0.0162	-0.1012	0.6070	0.8596	0.0958	0.3651	0.1114	0.4248
32	11.37	-0.03	0.0206	-0.0018	0.0103	-0.0874	0.4983	0.8688	0.0996	0.3728	0.1146	0.4291
33	11.72	-0.04	0.0084	-0.0031	0.0063	-0.3690	0.7699	0.8767	0.1052	0.3701	0.1228	0.4320
34	12.08	-0.08	0.0107	-0.0020	0.0056	-0.1869	0.5201	0.8648	0.1054	0.3710	0.1219	0.4290
35	12.47	-0.01	0.0187	-0.0011	0.0095	-0.0588	0.5097	0.8722	0.1046	0.3774	0.1199	0.4327
36	12.81	-0.07	0.0136	-0.0016	0.0056	-0.1176	0.4141	0.9009	0.1033	0.3894	0.1147	0.4322
37	13.19	-0.08	-0.0004	-0.0057	-0.0012	14.2500	3.0832	0.9210	0.1018	0.3969	0.1105	0.4331
38	13.56	-0.10	0.0240	-0.0024	0.0108	-0.1000	0.4499	0.9440	0.1020	0.4070	0.1081	0.4311
39	13.92	-0.08	0.0192	-0.0054	0.0094	-0.2812	0.4895	0.9650	0.1006	0.4161	0.1042	0.4311
40	14.27	-0.07	0.0173	-0.0058	0.0110	-0.3353	0.6338	0.9832	0.0993	0.4252	0.1010	0.4325
41	14.64	-0.07	-0.0039	-0.0084	-0.0007	2.1538	0.1794	1.0017	0.0974	0.4289	0.0972	0.4282
42	14.99	-0.05	-0.0059	-0.0062	-0.0029	1.0508	0.4858	0.9336	0.0620	0.3895	0.0664	0.4172
43	15.35	-0.05	-0.0196	-0.0078	-0.0093	0.3980	0.4761	0.9581	0.0586	0.3966	0.0612	0.4160
44	15.67	-0.06	-0.0055	-0.0054	-0.0007	0.9817	0.1332	0.9756	0.0567	0.4076	0.0581	0.4178
45	16.01	-0.05	0.0061	-0.0027	0.0063	-0.4426	1.0381	0.9909	0.0559	0.4139	0.0564	0.4177
46	16.34	-0.09	-0.0170	-0.0079	-0.0090	0.4647	0.5273	1.0172	0.0521	0.4240	0.0512	0.4169

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART PACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 4 1.01 1.7 0.0 B2M0F16 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.66	-0.06	-0.0126	-0.0070	-0.0070	0.5556	0.5554	1.0338	0.0510	0.4302	0.0493	0.4161
48	17.00	-0.08	-0.0240	-0.0085	-0.0103	0.3542	0.4290	1.0573	0.0487	0.4370	0.0461	0.4133
49	17.31	-0.08	-0.0159	-0.0087	-0.0128	0.5472	0.8049	1.0747	0.0470	0.4431	0.0437	0.4123
50	17.63	-0.07	-0.0222	-0.0101	-0.0134	0.4550	0.6035	1.0926	0.0459	0.4532	0.0420	0.4148
51	17.97	-0.09	-0.0281	-0.0117	-0.0194	0.4164	0.6891	1.1111	0.0450	0.4600	0.0405	0.4140
52	18.30	-0.06	-0.0313	-0.0133	-0.0243	0.4249	0.7773	1.1209	0.0448	0.4630	0.0400	0.4131
53	18.64	-0.06	-0.0358	-0.0143	-0.0266	0.3994	0.7438	1.1478	0.0436	0.4742	0.0380	0.4131
54	18.98	-0.06	-0.0362	-0.0142	-0.0224	0.3923	0.6288	1.1570	0.0433	0.4814	0.0374	0.4161
55	19.29	-0.05	-0.0399	-0.0139	-0.0233	0.3484	0.5838	1.1645	0.0431	0.4819	0.0370	0.4139
56	19.64	-0.07	-0.0413	-0.0144	-0.0254	0.3487	0.6262	1.1838	0.0426	0.4894	0.0360	0.4134
57	19.97	-0.07	-0.0454	-0.0145	-0.0253	0.3194	0.5579	1.2040	0.0416	0.4994	0.0346	0.4148
58	20.31	-0.10	-0.0513	-0.0163	-0.0314	0.3177	0.6120	1.2153	0.0414	0.5051	0.0341	0.4156
59	20.64	-0.09	-0.0356	-0.0143	-0.0283	0.4017	0.7999	1.2312	0.0406	0.5100	0.0330	0.4142
60	21.00	-0.08	-0.0691	-0.0177	-0.0345	0.2562	0.4996	1.2475	0.0401	0.5186	0.0321	0.4157
61	21.32	-0.09	-0.0732	-0.0186	-0.0394	0.2541	0.5381	1.2605	0.0396	0.5225	0.0314	0.4145
62	21.63	-0.07	-0.0536	-0.0169	-0.0373	0.3153	0.6952	1.2665	0.0392	0.5267	0.0310	0.4159
63	21.95	-0.10	-0.0366	-0.0153	-0.0362	0.4180	0.9690	1.2796	0.0386	0.5307	0.0302	0.4147
64	22.26	-0.11	-0.0587	-0.0171	-0.0394	0.2913	0.6705	1.2923	0.0383	0.5363	0.0296	0.4150
65	22.58	-0.07	-0.0644	-0.0151	-0.0341	0.2345	0.5289	1.3114	0.0376	0.5445	0.0287	0.4152
66	22.93	-0.11	-0.0203	-0.0122	-0.0317	0.6010	1.5598	1.3130	0.0376	0.5434	0.0286	0.4139
67	23.23	-0.10	-0.0389	-0.0147	-0.0355	0.3779	0.9116	1.3215	0.0373	0.5494	0.0282	0.4158
68	23.53	-0.12	-0.0343	-0.0139	-0.0356	0.4052	1.0388	1.3383	0.0365	0.5582	0.0273	0.4171
69	23.89	-0.10	0.0064	-0.0085	-0.0213	-1.3281	-3.3230	1.3576	0.0361	0.5628	0.0266	0.4145
70	24.22	-0.12	-0.0387	-0.0123	-0.0314	0.3178	0.8113	1.3568	0.0357	0.5634	0.0263	0.4152
71	24.54	-0.12	-0.0484	-0.0135	-0.0365	0.2872	0.7630	1.3716	0.0351	0.5705	0.0258	0.4160
72	24.87	-0.12	-0.0658	-0.0160	-0.0451	0.2432	0.6358	1.3842	0.0346	0.5775	0.0250	0.4172
73	25.20	-0.09	-0.0892	-0.0193	-0.0549	0.2164	0.6157	1.3863	0.0341	0.5784	0.0246	0.4173
74	25.43	-0.12	-0.0548	-0.0154	-0.0446	0.2619	0.7584	1.3850	0.0343	0.5750	0.0248	0.4152
75	25.79	-0.09	-0.0478	-0.0134	-0.0392	0.2815	0.8227	1.3893	0.0342	0.5766	0.0246	0.4151
76	26.11	-0.12	0.0177	-0.0041	-0.0115	-0.2316	-0.6498	1.3928	0.0339	0.5741	0.0243	0.4122
77	26.35	-0.09	-0.0204	-0.0113	-0.0344	0.5539	1.6862	1.3984	0.0335	0.5793	0.0240	0.4142
78	26.67	-0.11	0.0545	0.0008	0.0052	0.0147	0.0947	1.3953	0.0348	0.5758	0.0249	0.4127
79	27.03	-0.11	-0.0640	-0.0168	-0.0561	0.2625	0.8770	1.4245	0.0328	0.5906	0.0230	0.4146
80	27.35	-0.12	0.0325	-0.0045	-0.0164	-0.1385	-0.5037	1.4179	0.0334	0.5888	0.0236	0.4152
81	27.67	-0.10	0.0156	-0.0029	-0.0065	-0.1859	-0.4424	1.4260	0.0335	0.5895	0.0235	0.4134
82	27.95	-0.11	0.0210	-0.0046	-0.0085	-0.2190	-0.4049	1.4246	0.0337	0.5912	0.0237	0.4150
83	28.28	-0.13	-0.1459	-0.0277	-0.0949	0.1899	0.6506	1.4654	0.0310	0.6092	0.0212	0.4157
84	28.59	-0.12	0.0382	-0.0023	0.0021	-0.0602	0.0557	1.4452	0.0323	0.6022	0.0223	0.4167
85	28.93	-0.11	-0.0013	-0.0082	-0.0212	0.3077	1.6332	1.4436	0.0325	0.6000	0.0225	0.4156
86	29.24	-0.14	0.1579	0.0150	0.0609	0.0950	0.3856	1.3811	0.0343	0.5689	0.0248	0.4119
87	29.57	-0.06	0.1194	0.0067	0.0477	0.0561	0.3994	1.4297	0.0327	0.5934	0.0229	0.4150
88	29.84	-0.05	0.1436	0.0132	0.0683	0.0919	0.4760	1.4242	0.0327	0.5858	0.0230	0.4113
89	29.83	-0.10	0.0999	0.0074	0.0424	0.0741	0.4243	1.4352	0.0325	0.5908	0.0226	0.4113

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF3	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	4	1.0	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	0.0	0.0217	0.0047	0.0162	0.2166	0.7480	-0.2851	-0.0496	-0.0704	0.1740	0.2469
2	-2.42	-0.02	0.0282	0.0054	0.0179	0.1915	0.6346	-0.2693	-0.0461	-0.0625	0.1712	0.2322
3	-1.94	-0.02	0.0265	0.0070	0.0171	0.2642	0.6464	-0.2296	-0.0344	-0.0445	0.1498	0.1938
4	-1.33	-0.05	0.0251	0.0067	0.0176	0.2609	0.6997	-0.1962	-0.0214	-0.0285	0.1091	0.1451
5	-0.76	-0.05	0.0184	0.0057	0.0170	0.3098	0.9256	-0.1477	-0.0095	-0.0062	0.0643	0.0421
6	-0.22	-0.01	0.0250	0.0063	0.0181	0.2520	0.7252	-0.0976	-0.0018	0.0108	0.0184	-0.1104
7	0.28	-0.01	0.0289	0.0068	0.0184	0.2353	0.6377	-0.0647	0.0050	0.0279	-0.0773	-0.4319
8	0.80	-0.01	0.0210	0.0058	0.0174	0.2762	0.8380	-0.0301	0.0117	0.0430	-0.3887	-1.4276
9	1.29	0.0	0.0236	0.0076	0.0200	0.2448	0.7003	0.0120	0.0198	0.0588	1.6500	4.8959
10	1.78	-0.01	0.0315	0.0069	0.0187	0.2190	0.5935	0.0446	0.0308	0.0733	0.6906	1.6426
11	2.27	-0.03	0.0311	0.0075	0.0202	0.2412	0.6483	0.0934	0.0458	0.0941	0.4904	1.0077
12	2.73	-0.03	0.0301	0.0067	0.0189	0.2226	0.6289	0.1295	0.0532	0.1115	0.4108	0.8606
13	3.24	-0.02	0.0304	0.0066	0.0182	0.2171	0.5997	0.1699	0.0601	0.1299	0.3537	0.7646
14	3.68	-0.03	0.0252	0.0063	0.0175	0.2500	0.6943	0.2111	0.0650	0.1479	0.3079	0.7008
15	4.15	-0.04	0.0305	0.0071	0.0192	0.2328	0.6283	0.2606	0.0697	0.1712	0.2675	0.6571
16	4.59	-0.05	0.0371	0.0080	0.0211	0.2156	0.5677	0.3059	0.0726	0.1908	0.2373	0.6238
17	5.05	-0.03	0.0382	0.0085	0.0217	0.2225	0.5688	0.3465	0.0730	0.2089	0.2107	0.6028
18	5.49	-0.01	0.0418	0.0095	0.0244	0.2273	0.5844	0.3916	0.0738	0.2282	0.1885	0.5827
19	5.92	-0.02	0.0298	0.0086	0.0206	0.2886	0.6923	0.4241	0.0744	0.2430	0.1754	0.5730
20	6.38	-0.01	0.0369	0.0105	0.0240	0.2846	0.6503	0.4661	0.0766	0.2623	0.1643	0.5628
21	6.82	-0.03	0.0310	0.0112	0.0235	0.3613	0.7590	0.4999	0.0775	0.2762	0.1550	0.5525
22	7.28	-0.02	0.0274	0.0100	0.0207	0.3650	0.7566	0.5324	0.0786	0.2893	0.1476	0.5434
23	7.69	-0.01	0.0298	0.0105	0.0223	0.3523	0.7493	0.5627	0.0802	0.3054	0.1425	0.5427
24	8.14	-0.05	0.0358	0.0120	0.0252	0.3352	0.7047	0.5959	0.0813	0.3160	0.1364	0.5302
25	8.56	-0.04	0.0308	0.0111	0.0237	0.3604	0.7683	0.6250	0.0823	0.3304	0.1317	0.5286
26	8.98	-0.03	0.0267	0.0110	0.0248	0.4120	0.9287	0.6486	0.0830	0.3403	0.1280	0.5247
27	9.36	-0.04	0.0385	0.0124	0.0269	0.3221	0.6994	0.6772	0.0851	0.3570	0.1257	0.5271
28	9.80	-0.03	0.0320	0.0117	0.0254	0.3656	0.8082	0.7032	0.0867	0.3662	0.1233	0.5208
29	10.19	-0.03	0.0267	0.0115	0.0251	0.4307	0.9400	0.7240	0.0879	0.3772	0.1214	0.5211
30	10.59	-0.05	0.0362	0.0121	0.0257	0.3343	0.7089	0.7513	0.0894	0.3916	0.1190	0.5213
31	10.98	-0.05	0.0356	0.0132	0.0274	0.3708	0.7827	0.7700	0.0910	0.4007	0.1182	0.5204
32	11.37	-0.03	0.0295	0.0112	0.0261	0.3797	0.8658	0.7936	0.0915	0.4127	0.1153	0.5201
33	11.72	-0.04	0.0446	0.0143	0.0307	0.3206	0.6875	0.8126	0.0912	0.4224	0.1122	0.5198
34	12.08	-0.08	0.0350	0.0113	0.0258	0.3229	0.7361	0.8302	0.0927	0.4317	0.1117	0.5200
35	12.47	-0.01	0.0368	0.0127	0.0301	0.3451	0.8169	0.8403	0.0928	0.4368	0.1104	0.5198
36	12.81	-0.07	0.0316	0.0119	0.0291	0.3766	0.9218	0.8661	0.0953	0.4472	0.1100	0.5163
37	13.19	-0.08	0.0394	0.0128	0.0306	0.3249	0.7774	0.7949	0.1026	0.4197	0.1291	0.5280
38	13.56	-0.10	0.0356	0.0119	0.0302	0.3343	0.8473	0.8105	0.1011	0.4258	0.1247	0.5253
39	13.92	-0.08	0.0402	0.0135	0.0337	0.3358	0.8382	0.7464	0.0955	0.3875	0.0878	0.5192
40	14.27	-0.07	0.0389	0.0137	0.0331	0.3522	0.8499	0.7542	0.0640	0.3911	0.0649	0.5186
41	14.64	-0.07	0.0416	0.0138	0.0333	0.3317	0.7996	0.7729	0.0633	0.4013	0.0819	0.5193
42	14.99	-0.05	0.0423	0.0147	0.0366	0.3475	0.8651	0.8004	0.0620	0.4159	0.0775	0.5196
43	15.35	-0.05	0.0437	0.0149	0.0365	0.3410	0.8344	0.8348	0.0597	0.4283	0.0715	0.5130
44	15.67	-0.06	0.0384	0.0145	0.0356	0.3776	0.9270	0.8463	0.0582	0.4332	0.0688	0.5119
45	16.01	-0.05	0.0350	0.0128	0.0336	0.3657	0.9589	0.8653	0.0557	0.4433	0.0644	0.5123
46	16.34	-0.09	0.0421	0.0150	0.0387	0.3563	0.8724	0.8837	0.0548	0.4498	0.0620	0.5090

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	4	1.01	1.7	0.0	82WOF16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.66	-0.06	0.0498	0.0161	0.0392	0.3233	0.7370	0.9068	0.0522	0.4602	0.0576	0.5075
48	17.00	-0.08	0.0426	0.0142	0.0350	0.3333	0.8215	0.9276	0.0504	0.4694	0.0543	0.5060
49	17.31	-0.08	0.0421	0.0148	0.0374	0.3515	0.8890	0.9401	0.0494	0.4732	0.0525	0.5033
50	17.63	-0.07	0.0438	0.0145	0.0364	0.3311	0.8309	0.9623	0.0473	0.4844	0.0492	0.5033
51	17.97	-0.09	0.0449	0.0149	0.0377	0.3318	0.8388	0.9815	0.0467	0.4920	0.0476	0.5013
52	18.30	-0.06	0.0400	0.0140	0.0347	0.3200	0.8082	0.9887	0.0464	0.4970	0.0469	0.5027
53	18.64	-0.08	0.0475	0.0156	0.0376	0.3284	0.7922	1.0165	0.0446	0.5081	0.0439	0.4999
54	18.98	-0.06	0.0501	0.0158	0.0393	0.3154	0.7843	1.0321	0.0441	0.5129	0.0427	0.4970
55	19.29	-0.05	0.0438	0.0143	0.0375	0.3265	0.8560	1.0406	0.0438	0.5186	0.0421	0.4984
56	19.64	-0.07	0.0516	0.0153	0.0399	0.2965	0.7731	1.0604	0.0427	0.5295	0.0403	0.4994
57	19.97	-0.07	0.0503	0.0152	0.0391	0.3022	0.7766	1.0724	0.0419	0.5337	0.0391	0.4977
58	20.31	-0.10	0.0565	0.0166	0.0415	0.2938	0.7350	1.0857	0.0415	0.5400	0.0382	0.4973
59	20.64	-0.09	0.0536	0.0165	0.0424	0.3078	0.7703	1.0929	0.0410	0.5443	0.0375	0.4980
60	21.00	-0.08	0.0503	0.0145	0.0390	0.2962	0.7746	1.1034	0.0402	0.5491	0.0364	0.4976
61	21.32	-0.09	0.0550	0.0162	0.0423	0.2445	0.7696	1.1058	0.0397	0.5511	0.0359	0.4983
62	21.63	-0.07	0.0464	0.0143	0.0380	0.3082	0.8181	1.1276	0.0393	0.5603	0.0349	0.4969
63	21.95	-0.10	0.0597	0.0178	0.0442	0.2482	0.7402	1.1290	0.0391	0.5621	0.0346	0.4979
64	22.26	-0.11	0.0536	0.0162	0.0414	0.3022	0.7716	1.1395	0.0385	0.5685	0.0338	0.4989
65	22.56	-0.07	0.0503	0.0146	0.0389	0.2503	0.7726	1.1488	0.0380	0.5705	0.0331	0.4966
66	22.93	-0.11	0.0558	0.0170	0.0444	0.3047	0.7956	1.1611	0.0382	0.5762	0.0329	0.4963
67	23.23	-0.10	0.0562	0.0163	0.0429	0.2900	0.7638	1.1729	0.0375	0.5820	0.0320	0.4962
68	23.53	-0.12	0.0533	0.0164	0.0438	0.3077	0.8210	1.1745	0.0374	0.5855	0.0318	0.4985
69	23.89	-0.10	0.0508	0.0159	0.0426	0.3130	0.8391	1.1958	0.0373	0.5945	0.0312	0.4971
70	24.22	-0.12	0.0598	0.0164	0.0447	0.2742	0.7579	1.1904	0.0367	0.5932	0.0308	0.4983
71	24.54	-0.12	0.0594	0.0165	0.0461	0.2845	0.7760	1.1986	0.0364	0.5939	0.0304	0.4955
72	24.87	-0.12	0.0515	0.0160	0.0438	0.3107	0.8497	1.1914	0.0362	0.5952	0.0304	0.4996
73	25.20	-0.09	0.0610	0.0168	0.0466	0.2718	0.7539	1.1989	0.0357	0.5964	0.0298	0.4974
74	25.43	-0.12	0.0515	0.0160	0.0438	0.3107	0.8497	1.2037	0.0356	0.6009	0.0296	0.4992
75	25.77	-0.09	0.0551	0.0167	0.0464	0.3031	0.8414	1.2121	0.0353	0.6025	0.0291	0.4971
76	26.11	-0.12	0.0654	0.0179	0.0478	0.2737	0.7708	1.2194	0.0355	0.6058	0.0291	0.4968
77	26.35	-0.09	0.0544	0.0171	0.0474	0.3120	0.8642	1.2122	0.0355	0.6025	0.0293	0.4970
78	26.67	-0.11	0.0666	0.0185	0.0510	0.2778	0.7656	1.2302	0.0353	0.6127	0.0287	0.4981
79	27.03	-0.11	0.0644	0.0175	0.0494	0.2717	0.7664	1.2235	0.0354	0.6086	0.0289	0.4974
80	27.35	-0.12	0.0718	0.0191	0.0528	0.2660	0.7357	1.2366	0.0350	0.6172	0.0283	0.4991
81	27.67	-0.10	0.0590	0.0173	0.0489	0.2932	0.8281	1.2393	0.0350	0.6181	0.0282	0.4987
82	27.95	-0.11	0.0605	0.0173	0.0485	0.2860	0.8010	1.2553	0.0344	0.6240	0.0274	0.4971
83	28.28	-0.13	0.0607	0.0166	0.0487	0.2735	0.8027	1.1956	0.0345	0.6004	0.0289	0.5022
84	28.59	-0.12	0.0591	0.0171	0.0496	0.2893	0.8391	1.2513	0.0341	0.6268	0.0273	0.5009
85	28.93	-0.11	0.0529	0.0162	0.0460	0.3062	0.8701	1.2388	0.0343	0.6198	0.0277	0.5003
86	29.24	-0.14	0.0515	0.0163	0.0463	0.3165	0.8983	1.2630	0.0336	0.6340	0.0266	0.5019
87	29.57	-0.06	0.0777	0.0203	0.0584	0.2613	0.7515	1.2628	0.0336	0.6299	0.0266	0.4988
88	29.84	-0.05	0.0654	0.0182	0.0515	0.2783	0.7873	1.2680	0.0332	0.6323	0.0262	0.4987
89	29.83	-0.10	0.0589	0.0177	0.0501	0.3005	0.8510	1.2711	0.0330	0.6315	0.0260	0.4969

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L'	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	5.105	1.7	0.0	B2WDF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.74	-0.03	-0.5018	1.6014	0.0739	-0.3014	0.0100	0.3816	-3.1912	
2	-2.63	0.03	-0.4776	1.4916	0.1107	-0.2140	0.0070	0.3792	-3.1228	
3	-2.02	-0.02	-0.3651	1.1370	0.0310	-0.2834	0.0090	0.3799	-3.1146	
4	-1.38	-0.01	-0.2386	0.7719	0.0487	-0.2431	0.0090	0.3674	-3.2357	
5	-0.83	-0.06	-0.1339	0.5214	-0.0341	-0.2652	0.0040	0.3756	-3.8944	
6	-0.30	-0.04	-0.0426	0.2626	-0.1438	-0.2077	0.0060	0.3815	-6.1653	
7	0.22	-0.04	0.0621	-0.0729	0.0728	-0.1539	0.0040	0.3817	-1.1746	
8	0.74	-0.07	0.1681	-0.3503	0.0339	-0.2546	0.0050	0.3741	-2.0841	
9	1.23	-0.06	0.2369	-0.4966	0.0193	-0.2430	0.0080	0.3670	-2.0965	
10	1.74	0.02	0.3215	-0.7060	0.2051	-0.1371	0.0090	0.3640	-2.4451	
11	2.20	-0.03	0.4489	-1.0475	0.1418	-0.0355	-0.0010	0.3643	-2.4445	
12	2.70	-0.01	0.5440	-1.3616	0.0364	-0.1269	0.0040	0.3661	-2.5027	
13	3.16	-0.01	0.6606	-1.7258	0.0389	-0.2024	0.0010	0.3615	-2.6123	
14	3.65	-0.01	0.7478	-2.0558	0.0229	-0.1560	-0.0010	0.3716	-2.7491	
15	4.10	-0.03	0.8436	-2.3059	-0.0292	-0.0421	-0.0030	0.3758	-2.7334	
16	4.54	-0.01	0.9085	-2.6487	0.0575	-0.1835	-0.0020	0.3564	-2.7349	
17	5.00	-0.02	1.0625	-2.9213	-0.0367	-0.1446	0.0040	0.3213	-2.7495	
18	5.43	-0.02	1.1809	-3.2241	0.0690	-0.1316	-0.0020	0.3119	-2.7301	
19	5.89	-0.02	1.2675	-3.5573	0.0269	-0.1126	0.0050	0.3373	-2.8065	
20	6.33	-0.02	1.3315	-3.7089	0.1380	-0.2092	0.0030	0.3465	-2.7854	
21	6.79	-0.04	1.4465	-3.9919	-0.0603	-0.1346	0.0030	0.3832	-2.7596	
22	7.22	-0.02	1.4996	-4.1352	0.0329	-0.1530	0.0	0.3943	-2.7575	
23	7.66	-0.02	1.5972	-4.3568	0.0728	-0.1639	-0.0030	0.4060	-2.7278	
24	8.08	-0.02	1.6284	-4.5324	-0.0122	-0.1759	0.0040	0.4012	-2.7834	
25	8.54	0.0	1.7383	-4.7533	0.0420	-0.1408	-0.0010	0.3973	-2.7345	
26	8.92	-0.01	1.7991	-4.9314	-0.0502	0.0093	-0.0070	0.3947	-2.7411	
27	9.34	-0.07	1.9276	-5.1704	0.0388	-0.0333	-0.0020	0.3715	-2.6822	
28	9.74	-0.07	1.9642	-5.3516	-0.1336	0.0950	-0.0040	0.3486	-2.7245	
29	10.15	-0.10	2.0978	-5.5256	0.1048	-0.1057	-0.0010	0.3355	-2.6340	
30	10.55	-0.04	2.1644	-5.7288	-0.0844	0.0372	-0.0040	0.3243	-2.6468	
31	10.93	-0.07	2.2156	-5.8515	-0.1408	0.0011	0.0050	0.3308	-2.6410	
32	11.31	-0.06	2.3051	-6.0228	-0.0394	-0.0208	-0.0040	0.3527	-2.6128	
33	11.67	-0.01	2.3803	-6.1410	0.0428	0.1671	-0.0100	0.3735	-2.5800	
34	12.04	-0.04	2.4454	-6.2532	-0.0310	0.0324	-0.0080	0.3832	-2.5571	
35	12.40	-0.04	2.5066	-6.3368	0.0668	-0.0415	-0.0080	0.3817	-2.5281	
36	12.76	-0.04	2.5730	-6.4488	0.0445	0.1107	-0.0180	0.3844	-2.5064	
37	13.12	-0.03	2.6235	-6.4965	-0.0623	0.1142	-0.0160	0.3773	-2.4763	
38	13.51	-0.07	2.6827	-6.4905	-0.0001	0.1031	-0.0090	0.3709	-2.4193	
39	13.87	-0.08	2.7037	-6.4349	-0.0629	0.0990	-0.0040	0.3589	-2.3800	
40	14.20	-0.06	2.7223	-6.3270	-0.0042	-0.0351	-0.0060	0.3639	-2.3241	
41	14.59	-0.07	2.7037	-6.0739	-0.0911	0.0805	-0.0920	0.3487	-2.2465	
42	14.94	-0.05	2.7842	-6.1176	0.0549	0.0141	-0.0090	0.3315	-2.1972	
43	15.30	-0.07	2.8124	-6.0261	-0.1304	0.1215	-0.0370	0.3471	-2.1427	
44	15.61	-0.07	2.8350	-6.0688	-0.0098	0.0867	-0.0410	0.3245	-2.1406	
45	15.96	-0.10	2.9381	-6.1491	-0.1189	0.1014	-0.0400	0.3423	-2.0929	
46	16.28	-0.09	3.0462	-6.4204	-0.0753	0.0494	-0.0560	0.3565	-2.1077	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	5	1.05	1.7	0.0	B2HOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BEFA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.63	-0.09	3.1240	-6.4923	0.0294	0.0838	-0.0580	0.3496	-2.0782		
48	16.95	-0.08	3.2191	-6.6424	-0.0540	0.1026	-0.0590	0.3588	-2.0635		
49	17.28	-0.06	3.2577	-6.7695	-0.0235	0.2329	-0.0570	0.3541	-2.0780		
50	17.61	-0.08	3.3501	-6.8738	-0.0986	0.2790	-0.0530	0.3456	-2.0518		
51	17.93	-0.06	3.4313	-6.9525	-0.0775	0.1055	-0.0630	0.3241	-2.0262		
52	18.28	-0.07	3.5238	-7.0821	-0.1029	0.3450	-0.0680	0.3329	-2.0098		
53	18.61	-0.04	3.6362	-7.1684	0.0237	0.1228	-0.0670	0.3342	-1.9714		
54	18.95	-0.05	3.6745	-7.2021	-0.0625	0.4224	-0.0730	0.3293	-1.9600		
55	19.24	-0.05	3.7385	-7.3236	-0.0369	0.1490	-0.0710	0.3265	-1.9590		
56	19.57	-0.05	3.8379	-7.4358	-0.0592	0.1549	-0.0650	0.3223	-1.9375		
57	19.91	-0.06	3.9093	-7.5247	-0.0111	0.1365	-0.0690	0.3148	-1.9248		
58	20.27	-0.10	3.9713	-7.5395	-0.0556	0.2588	-0.0720	0.3106	-1.8962		
59	20.60	-0.08	4.0879	-7.6138	-0.0009	0.2652	-0.0840	0.2963	-1.8625		
60	20.97	-0.10	4.1662	-7.6104	0.0073	-0.0392	-0.0800	0.2788	-1.8267		
61	21.30	-0.12	4.2129	-7.6219	-0.0501	0.2891	-0.0890	0.2683	-1.8092		
62	21.61	-0.05	4.3819	-7.8155	0.0223	0.4097	-0.0930	0.2723	-1.7836		
63	21.94	-0.10	4.4530	-7.8270	-0.0337	0.2641	-0.0840	0.2599	-1.7577		
64	22.23	-0.09	4.4582	-7.8233	-0.0317	0.3493	-0.0980	0.2592	-1.7392		
65	22.55	-0.10	4.6135	-7.8697	-0.0219	0.3676	-0.0960	0.2566	-1.7058		
66	22.80	-0.06	4.6694	-7.9970	-0.0701	0.1381	-0.0800	0.2571	-1.7126		
67	23.20	-0.09	4.8291	-8.0665	-0.0956	-0.0232	-0.0610	0.2656	-1.6704		
68	23.54	-0.09	4.9406	-7.9966	0.1912	-0.2007	-0.0650	0.2663	-1.6182		
69	23.84	-0.06	4.9458	-8.0279	0.0919	-0.0157	-0.0670	0.2611	-1.6232		
70	24.17	-0.11	5.0394	-8.0921	0.0474	-0.1523	-0.0630	0.2449	-1.6057		
71	24.49	-0.09	5.1259	-8.0902	0.0078	-0.0419	-0.0650	0.2407	-1.5733		
72	24.81	-0.10	5.1770	-8.0297	-0.0552	0.0713	-0.0890	0.2267	-1.5510		
73	25.10	-0.09	5.3094	-8.0531	-0.0323	0.3162	-0.1070	0.2345	-1.5168		
74	25.43	-0.10	5.4122	-8.0350	-0.0576	0.2836	-0.0890	0.2294	-1.4846		
75	25.73	-0.12	5.4836	-8.1250	0.2076	-0.5266	-0.0220	0.2269	-1.4817		
76	26.03	-0.12	5.5962	-8.0296	0.0795	-0.2413	-0.0560	0.2332	-1.4348		
77	26.32	-0.12	5.6465	-8.0460	0.0702	-0.1373	-0.0670	0.2352	-1.4250		
78	26.67	-0.12	5.8220	-7.9459	0.0974	-0.1683	-0.0450	0.2235	-1.3648		
79	26.96	-0.13	5.9216	-7.9543	0.0724	-0.2553	-0.0530	0.2206	-1.3433		
80	27.30	-0.09	6.0854	-7.8626	0.2046	-0.2894	-0.0490	0.2142	-1.2921		
81	27.61	-0.09	6.1390	-7.7827	0.1697	-0.2765	-0.0290	0.2049	-1.2677		
82	27.92	-0.11	6.2754	-7.8467	0.1255	-0.4266	-0.0060	0.1955	-1.2504		
83	28.24	-0.10	6.4098	-7.6768	-0.0621	0.4489	-0.1140	0.1691	-1.1977		
84	28.55	-0.13	6.5094	-7.6804	0.0633	-0.1016	-0.0490	0.1505	-1.1799		
85	28.90	-0.15	6.7067	-7.6166	-0.1291	0.2127	-0.0710	0.1429	-1.1357		
86	29.20	-0.13	6.7162	-7.4640	-0.0491	-0.0523	-0.0390	0.1233	-1.1113		
87	29.54	-0.13	6.9336	-7.5293	0.0795	-0.3902	0.0180	0.1088	-1.0859		
88	29.85	-0.11	7.0615	-7.5204	-0.0152	-0.0887	-0.0700	0.1124	-1.0650		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	5.105	1.7	0.0	B2M0F16	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.74	-0.03	0.0541	0.0026	0.0093	0.0481	0.1724	-0.1762	-0.0475	-0.1068	0.2696	0.6062
2	-2.63	0.03	0.0497	0.0010	0.0051	0.0201	0.1018	-0.1692	-0.0464	-0.1029	0.2742	0.6080
3	-2.02	-0.02	0.0553	0.0020	0.0064	0.0362	0.1253	-0.1011	-0.0365	-0.0757	0.3610	0.7486
4	-1.38	-0.01	0.0553	0.0020	0.0064	0.0362	0.1253	-0.0515	-0.0265	-0.0548	0.5146	1.0633
5	-0.83	-0.06	0.0539	0.0016	0.0058	0.0297	0.1069	-0.0185	-0.0178	-0.0421	0.9622	2.2738
6	-0.30	-0.04	0.0473	0.0013	0.0057	0.0275	0.1197	0.0185	-0.0076	-0.0250	-0.4108	-1.3533
7	0.22	-0.04	0.0445	0.0010	0.0045	0.0225	0.1018	0.0606	0.0024	-0.0327	0.0396	-0.0447
8	0.74	-0.07	0.0537	0.0026	0.0092	0.0484	0.1712	0.0996	0.0108	0.0168	0.1084	0.1686
9	1.23	-0.06	0.0592	0.0038	0.0105	0.0642	0.1778	0.1268	0.0192	0.0289	0.1514	0.2275
10	1.74	0.02	0.0593	-0.0001	0.0123	-0.0017	0.2067	0.1746	0.0320	0.0503	0.1833	0.2880
11	2.20	-0.03	0.0459	-0.0005	0.0075	-0.0109	0.1633	0.2158	0.0378	0.0697	0.1752	0.3230
12	2.70	-0.01	0.0521	0.0017	0.0101	0.0326	0.1931	0.2570	0.0426	0.0843	0.1665	0.3282
13	3.16	-0.01	0.0439	0.0018	0.0075	0.0410	0.1715	0.2950	0.0500	0.1020	0.1695	0.3458
14	3.65	-0.01	0.0568	0.0025	0.0101	0.0460	0.1783	0.3418	0.0556	0.1244	0.1627	0.3639
15	4.10	-0.03	0.0490	0.0014	0.0084	0.0268	0.1720	0.3820	0.0585	0.1427	0.1531	0.3735
16	4.54	-0.01	0.0460	0.0018	0.0073	0.0391	0.1593	0.4187	0.0596	0.1563	0.1423	0.3733
17	5.00	-0.02	0.0403	0.0005	0.0066	0.0124	0.1645	0.4536	0.0651	0.1736	0.1435	0.3828
18	5.43	-0.02	0.0437	0.0	0.0079	0.0	0.1799	0.5021	0.0692	0.1921	0.1378	0.3826
19	5.89	-0.02	0.0447	-0.0004	0.0052	-0.0089	0.2057	0.5512	0.0707	0.2149	0.1283	0.3898
20	6.33	-0.02	0.0433	-0.0006	0.0080	-0.0135	0.1854	0.5714	0.0707	0.2235	0.1237	0.3911
21	6.79	-0.04	0.0487	-0.0001	0.0087	-0.0021	0.1792	0.6157	0.0636	0.2419	0.1130	0.3928
22	7.22	-0.02	0.0651	0.0006	0.0126	0.0092	0.1934	0.6428	0.0702	0.2536	0.1092	0.3945
23	7.66	-0.02	0.0581	-0.0003	0.0111	-0.0052	0.1904	0.6761	0.0717	0.2688	0.1057	0.3963
24	8.08	-0.02	0.0507	-0.0009	0.0070	-0.0159	0.1233	0.6962	0.0722	0.2745	0.1037	0.3943
25	8.54	0.0	0.0502	-0.0010	0.0070	-0.0199	0.1400	0.7306	0.0722	0.2887	0.0988	0.3952
26	8.92	-0.01	0.0518	-0.0003	0.0084	-0.0058	0.1614	0.7699	0.0720	0.3038	0.0935	0.3947
27	9.34	-0.07	0.0376	-0.0006	0.0087	-0.0160	0.2322	0.7952	0.0723	0.3161	0.0909	0.3975
28	9.74	-0.07	0.0348	-0.0013	0.0083	-0.0374	0.2384	0.8297	0.0774	0.3322	0.0933	0.4003
29	10.15	-0.10	0.0394	-0.0010	0.0132	-0.0254	0.3358	0.8479	0.0798	0.3403	0.0941	0.4020
30	10.55	-0.04	0.0270	-0.0015	0.0090	-0.0356	0.3332	0.8748	0.0826	0.3533	0.0944	0.4039
31	10.93	-0.07	0.0280	-0.0018	0.0091	-0.0643	0.3261	0.8936	0.0840	0.3644	0.0940	0.4077
32	11.31	-0.06	0.0286	-0.0011	0.0090	-0.0385	0.3157	0.9270	0.0833	0.3749	0.0899	0.4064
33	11.67	-0.01	0.0182	-0.0018	0.0065	-0.0989	0.3552	0.9514	0.0827	0.3840	0.0869	0.4036
34	12.04	-0.04	0.0235	-0.0009	0.0087	-0.0343	0.3715	0.9715	0.0826	0.3934	0.0850	0.4050
35	12.40	-0.04	0.0266	-0.0002	0.0092	-0.0075	0.3445	0.9841	0.0834	0.3983	0.0847	0.4048
36	12.76	-0.04	0.0130	-0.0029	0.0002	-0.2231	-0.0129	1.0090	0.0840	0.4099	0.0832	0.4059
37	13.12	-0.03	0.0159	-0.0017	0.0043	-0.1069	0.2703	1.0217	0.0852	0.4136	0.0834	0.4049
38	13.51	-0.07	0.0062	-0.0038	-0.0021	-0.6129	-0.3442	1.0080	0.0942	0.4128	0.0935	0.4095
39	13.87	-0.08	0.0052	-0.0038	-0.0043	-0.7308	-0.8206	1.0012	0.0950	0.4136	0.0949	0.4131
40	14.20	-0.06	0.0052	-0.0048	-0.0002	-0.9231	-0.0322	1.0229	0.0939	0.4219	0.0918	0.4125
41	14.59	-0.07	0.0113	-0.0064	0.0024	-0.5064	0.2093	1.0387	0.0928	0.4296	0.0893	0.4136
42	14.94	-0.05	0.0034	-0.0074	-0.0016	-2.1765	-0.4609	1.0387	0.0724	0.4028	0.0718	0.3993
43	15.30	-0.07	0.0006	-0.0064	-0.0040	-10.6667	-6.6668	0.9866	0.0620	0.3996	0.0628	0.4051
44	15.61	-0.07	-0.0021	-0.0073	-0.0089	3.4762	4.2380	0.9941	0.0589	0.3984	0.0592	0.4088
45	15.96	-0.10	-0.0050	-0.0072	-0.0058	1.4400	1.1532	1.0204	0.0578	0.4089	0.0566	0.4007
46	16.28	-0.09	-0.0062	-0.0086	-0.0159	1.3871	2.5590	1.0497	0.0554	0.4248	0.0528	0.4047

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		RX10-6	PHI	CUNF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION
	6	5	1.05	1.7		0.0	BZMOF16	0.0	0	0	0	0	FIXED
	ALPHA	BETA	CNF1	CHI	Cd1	XC PF1	YC PF1	CNF2	CH2	Cd2	XC PF2	YC PF2	
47	16.63	-0.09	-0.0068	-0.0094	-0.0162	1.3824	2.3773	1.0671	0.0537	0.4327	0.0503	0.4055	
48	16.95	-0.08	-0.0095	-0.0097	-0.0176	1.0211	1.8490	1.0925	0.0512	0.4423	0.0469	0.4049	
49	17.28	-0.06	-0.0185	-0.0123	-0.0235	0.6649	1.2683	1.1116	0.0497	0.4472	0.0447	0.4023	
50	17.61	-0.08	-0.0214	-0.0127	-0.0230	0.5535	1.0762	1.1316	0.0471	0.4565	0.0416	0.4034	
51	17.93	-0.06	-0.0165	-0.0106	-0.0180	0.6424	1.0908	1.1369	0.0458	0.4571	0.0403	0.4021	
52	18.28	-0.07	-0.0316	-0.0153	-0.0300	0.4842	0.9503	1.1642	0.0447	0.4690	0.0384	0.4029	
53	18.61	-0.04	-0.0251	-0.0125	-0.0231	0.4480	0.9189	1.1867	0.0436	0.4784	0.0367	0.4032	
54	18.95	-0.05	-0.0341	-0.0147	-0.0270	0.4311	0.7907	1.1910	0.0431	0.4822	0.0362	0.4048	
55	19.24	-0.05	-0.0396	-0.0160	-0.0315	0.4040	0.8054	1.2066	0.0422	0.4878	0.0350	0.4042	
56	19.57	-0.05	-0.0292	-0.0138	-0.0295	0.4726	1.0113	1.2228	0.0412	0.4945	0.0337	0.4044	
57	19.91	-0.06	-0.0274	-0.0129	-0.0284	0.4708	1.0376	1.2351	0.0406	0.5009	0.0329	0.4055	
58	20.27	-0.10	-0.0357	-0.0141	-0.0310	0.3950	0.8682	1.2427	0.0401	0.5030	0.0323	0.4048	
59	20.60	-0.08	-0.0478	-0.0152	-0.0332	0.3180	0.6351	1.2652	0.0390	0.5126	0.0308	0.4051	
60	20.97	-0.10	-0.0461	-0.0152	-0.0366	0.3297	0.7931	1.2685	0.0390	0.5162	0.0307	0.4065	
61	21.30	-0.12	-0.0445	-0.0146	-0.0357	0.3281	0.8029	1.2794	0.0382	0.5203	0.0299	0.4067	
62	21.61	-0.05	-0.0411	-0.0138	-0.0373	0.3358	0.9074	1.3050	0.0374	0.5300	0.0287	0.4062	
63	21.94	-0.10	-0.0469	-0.0147	-0.0376	0.3134	0.8023	1.3161	0.0368	0.5357	0.0280	0.4071	
64	22.23	-0.09	-0.0700	-0.0174	-0.0454	0.2486	0.6489	1.3246	0.0366	0.5410	0.0276	0.4084	
65	22.55	-0.10	-0.0420	-0.0132	-0.0370	0.3143	0.8808	1.3398	0.0359	0.5461	0.0268	0.4076	
66	22.86	-0.06	-0.0199	-0.0103	-0.0309	0.5176	1.5543	1.3538	0.0355	0.5508	0.0262	0.4065	
67	23.20	-0.09	0.0088	-0.0063	-0.0182	-0.7159	-2.0645	1.3751	0.0349	0.5590	0.0254	0.4065	
68	23.54	-0.09	0.0149	-0.0063	-0.0155	-0.4228	-1.0426	1.3855	0.0342	0.5650	0.0247	0.4078	
69	23.84	-0.06	0.0502	-0.0019	-0.0056	-0.0378	-0.1110	1.3952	0.0336	0.5676	0.0241	0.4068	
70	24.17	-0.11	0.0315	-0.0040	-0.0116	-0.1270	-0.3684	1.4003	0.0333	0.5693	0.0238	0.4066	
71	24.49	-0.09	0.0346	-0.0034	-0.0112	-0.0983	-0.3229	1.4140	0.0327	0.5753	0.0231	0.4068	
72	24.81	-0.10	-0.0363	-0.0122	-0.0441	0.3361	1.2148	1.4213	0.0321	0.5797	0.0226	0.4079	
73	25.10	-0.09	-0.0710	-0.0140	-0.0533	0.1972	0.7501	1.4367	0.0321	0.5862	0.0223	0.4080	
74	25.43	-0.10	-0.0072	-0.0062	-0.0235	0.8611	3.3193	1.4465	0.0312	0.5885	0.0216	0.4068	
75	25.73	-0.12	0.1275	0.0091	0.0376	0.0714	0.2948	1.4540	0.0306	0.5919	0.0210	0.4071	
76	26.03	-0.12	0.0407	-0.0003	-0.0013	-0.0074	-0.0329	1.4775	0.0297	0.6032	0.0201	0.4083	
77	26.32	-0.12	0.0551	0.0016	0.0055	0.0290	0.0791	1.4884	0.0297	0.6057	0.0200	0.4069	
78	26.67	-0.12	0.0479	-0.0005	-0.0013	-0.0104	-0.0280	1.4918	0.0286	0.6084	0.0192	0.4078	
79	26.96	-0.13	0.0024	-0.0056	-0.0245	-2.3333	-10.3751	1.5074	0.0282	0.6145	0.0187	0.4076	
80	27.30	-0.09	-0.0162	-0.0097	-0.0445	0.5588	2.7715	1.5104	0.0278	0.6174	0.0184	0.4088	
81	27.61	-0.09	0.0494	0.0023	0.0027	0.0466	0.0539	1.5080	0.0276	0.6126	0.0183	0.4064	
82	27.92	-0.11	0.0926	0.0064	0.0229	0.0691	0.2468	1.5182	0.0268	0.6191	0.0177	0.4078	
83	28.24	-0.10	0.0477	0.0053	0.0148	0.1111	0.3102	1.5160	0.0267	0.6169	0.0176	0.4069	
84	28.55	-0.13	0.1067	0.0085	0.0310	0.0797	0.2901	1.5137	0.0270	0.6164	0.0178	0.4072	
85	28.90	-0.15	0.0285	-0.0008	-0.0063	-0.0261	-0.2212	1.5244	0.0268	0.6204	0.0176	0.4069	
86	29.20	-0.13	0.0695	0.0025	0.0119	0.0360	0.1706	1.5094	0.0271	0.6142	0.0180	0.4069	
87	29.54	-0.13	0.1737	0.0163	0.0781	0.0938	0.4495	1.5206	0.0272	0.6172	0.0179	0.4059	
88	29.85	-0.11	0.0935	0.0085	0.0402	0.0909	0.4295	1.5308	0.0267	0.6228	0.0174	0.4068	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		5 1.05 1.7		0.0	82WOF16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.74	-0.03	0.0187	0.0064	0.0182	0.3422	0.9749	-0.3358	-0.0446	-0.0715	0.1328	0.2129
2	-2.63	0.03	0.0726	0.0068	0.0184	0.3009	0.8155	-0.3272	-0.0438	-0.0671	0.1339	0.2052
3	-2.02	-0.02	0.0147	0.0062	0.0187	0.4218	1.2720	-0.2627	-0.0339	-0.0408	0.1290	0.1554
4	-1.38	-0.01	0.0185	0.0064	0.0199	0.3459	1.0738	-0.2186	-0.0243	-0.0207	0.1112	0.0949
5	-0.83	-0.06	0.0248	0.0075	0.0204	0.3024	0.8211	-0.1808	-0.0138	-0.0062	0.0763	0.0345
6	-0.30	-0.04	0.0258	0.0080	0.0220	0.3101	0.8526	-0.1381	-0.0044	0.0110	0.0319	-0.0795
7	0.22	-0.04	0.0196	0.0067	0.0203	0.3418	1.0373	-0.0901	0.0042	0.0324	-0.0466	-0.3593
8	0.74	-0.07	0.0233	0.0072	0.0212	0.3090	0.9083	-0.0531	0.0119	0.0492	-0.2241	-0.9267
9	1.23	-0.06	0.0281	0.0060	0.0219	0.2847	0.7781	-0.0229	0.0200	0.0619	-0.8734	-2.7017
10	1.74	0.02	0.0184	0.0054	0.0201	0.2935	1.0941	0.0111	0.0304	0.0790	2.7387	7.1170
11	2.20	-0.03	0.0182	0.0061	0.0193	0.3352	1.0585	0.0544	0.0390	0.0974	0.7169	1.7909
12	2.70	-0.01	0.0183	0.0058	0.0192	0.3169	1.0491	0.1017	0.0459	0.1161	0.4513	1.1415
13	3.16	-0.01	0.0235	0.0091	0.0245	0.3447	1.0439	0.1456	0.0515	0.1377	0.3537	0.9459
14	3.62	-0.01	0.0301	0.0082	0.0250	0.2724	0.8316	0.1869	0.0558	0.1563	0.2986	0.8362
15	4.10	-0.03	0.0228	0.0077	0.0235	0.3377	1.0306	0.2217	0.0531	0.1720	0.2666	0.7757
16	4.54	-0.01	0.0269	0.0079	0.0235	0.2937	0.8722	0.2663	0.0601	0.1916	0.2257	0.7196
17	5.00	-0.02	0.0285	0.0079	0.0232	0.2772	0.8139	0.3070	0.0649	0.2109	0.2114	0.6870
18	5.43	-0.02	0.0323	0.0087	0.0246	0.2693	0.7605	0.3464	0.0682	0.2291	0.1969	0.6614
19	5.89	-0.02	0.0360	0.0098	0.0265	0.2722	0.7360	0.4003	0.0685	0.2551	0.1711	0.6372
20	6.33	-0.02	0.0370	0.0101	0.0280	0.2730	0.7575	0.4256	0.0685	0.2647	0.1609	0.6220
21	6.79	-0.04	0.0358	0.0098	0.0272	0.2737	0.7606	0.4602	0.0677	0.2790	0.1471	0.6064
22	7.22	-0.02	0.0441	0.0117	0.0307	0.2653	0.6960	0.4898	0.0670	0.2900	0.1368	0.5921
23	7.66	-0.02	0.0399	0.0116	0.0312	0.2907	0.7018	0.5287	0.0686	0.3056	0.1298	0.5760
24	8.08	-0.02	0.0421	0.0122	0.0315	0.2898	0.7584	0.5577	0.0693	0.3176	0.1243	0.5695
25	8.54	0.0	0.0431	0.0126	0.0330	0.2923	0.7648	0.5854	0.0701	0.3313	0.1197	0.5659
26	8.92	-0.01	0.0378	0.0133	0.0312	0.3519	0.8253	0.6091	0.0697	0.3417	0.1144	0.5609
27	9.34	-0.07	0.0301	0.0130	0.0288	0.4319	0.9578	0.6434	0.0717	0.3581	0.1114	0.5566
28	9.74	-0.07	0.0302	0.0134	0.0286	0.4437	0.9458	0.6732	0.0760	0.3715	0.1129	0.5519
29	10.15	-0.10	0.0290	0.0133	0.0281	0.4586	0.9677	0.6913	0.0779	0.3806	0.1127	0.5505
30	10.55	-0.04	0.0343	0.0138	0.0289	0.4023	0.8434	0.7259	0.0812	0.3995	0.1119	0.5503
31	10.93	-0.07	0.0344	0.0138	0.0283	0.4012	0.8216	0.7488	0.0824	0.4082	0.1100	0.5452
32	11.31	-0.06	0.0350	0.0150	0.0320	0.4286	0.9132	0.7808	0.0811	0.4210	0.1039	0.5392
33	11.67	-0.01	0.0415	0.0156	0.0327	0.3759	0.7686	0.8043	0.0809	0.4328	0.1006	0.5381
34	12.04	-0.04	0.0459	0.0172	0.0354	0.3747	0.7711	0.8171	0.0796	0.4376	0.0974	0.5355
35	12.40	-0.04	0.0470	0.0176	0.0360	0.3745	0.7651	0.8436	0.0807	0.4501	0.0957	0.5335
36	12.76	-0.04	0.0419	0.0168	0.0356	0.4010	0.8487	0.8534	0.0811	0.4550	0.0950	0.5331
37	13.12	-0.03	0.0418	0.0166	0.0355	0.3971	0.8500	0.8659	0.0824	0.4626	0.0952	0.5343
38	13.51	-0.07	0.0457	0.0173	0.0350	0.3786	0.7665	0.8763	0.0840	0.4705	0.0965	0.5369
39	13.87	-0.08	0.0530	0.0185	0.0388	0.3491	0.7313	0.8853	0.0912	0.4771	0.1030	0.5389
40	14.20	-0.06	0.0456	0.0170	0.0374	0.3728	0.8201	0.8364	0.0942	0.4592	0.1126	0.5490
41	14.59	-0.07	0.0374	0.0144	0.0348	0.3850	0.9295	0.7641	0.0643	0.4150	0.0842	0.5431
42	14.94	-0.05	0.0462	0.0160	0.0376	0.3463	0.8137	0.7788	0.0622	0.4230	0.0799	0.5432
43	15.30	-0.07	0.0402	0.0146	0.0351	0.3632	0.8730	0.8073	0.0618	0.4343	0.0766	0.5380
44	15.61	-0.07	0.0497	0.0171	0.0399	0.3441	0.8020	0.8184	0.0599	0.4417	0.0732	0.5357
45	15.96	-0.10	0.0424	0.0153	0.0374	0.3608	0.8827	0.8406	0.0587	0.4490	0.0698	0.5341
46	16.28	-0.09	0.0479	0.0180	0.0421	0.3758	0.8781	0.8629	0.0581	0.4625	0.0673	0.5360

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	5	1.05	1.7	0.0	82NOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.63	-0.09	0.0506	0.0178	0.0419	0.3518	0.8273	0.8875	0.0564	0.4704	0.0635	0.5301
48	16.95	-0.08	0.0443	0.0169	0.0395	0.3815	0.8908	0.9076	0.0548	0.4787	0.0604	0.5275
49	17.28	-0.06	0.0393	0.0158	0.0383	0.4020	0.9744	0.9261	0.0518	0.4859	0.0559	0.5247
50	17.61	-0.08	0.0455	0.0168	0.0401	0.3692	0.8805	0.9479	0.0494	0.4944	0.0521	0.5215
51	17.93	-0.06	0.0490	0.0176	0.0427	0.3592	0.8720	0.9561	0.0474	0.4990	0.0496	0.5219
52	18.28	-0.07	0.0578	0.0192	0.0441	0.3322	0.7623	0.9809	0.0467	0.5111	0.0476	0.5211
53	18.61	-0.04	0.0501	0.0181	0.0433	0.3613	0.8642	0.9962	0.0455	0.5193	0.0457	0.5213
54	18.95	-0.05	0.0543	0.0179	0.0428	0.3297	0.7881	1.0076	0.0450	0.5235	0.0447	0.5196
55	19.24	-0.05	0.0489	0.0176	0.0427	0.3599	0.8731	1.0222	0.0439	0.5308	0.0429	0.5193
56	19.57	-0.05	0.0529	0.0181	0.0424	0.3422	0.8020	1.0362	0.0430	0.5404	0.0415	0.5215
57	19.91	-0.06	0.0541	0.0184	0.0427	0.3401	0.7898	1.0530	0.0420	0.5469	0.0399	0.5193
58	20.27	-0.10	0.0491	0.0170	0.0427	0.3462	0.8689	1.0555	0.0417	0.5475	0.0395	0.5187
59	20.60	-0.08	0.0578	0.0187	0.0447	0.3235	0.7727	1.0720	0.0405	0.5555	0.0378	0.5182
60	20.97	-0.10	0.0584	0.0197	0.0440	0.3373	0.8384	1.0799	0.0403	0.5598	0.0373	0.5184
61	21.30	-0.12	0.0578	0.0188	0.0448	0.3253	0.7744	1.0911	0.0399	0.5631	0.0366	0.5161
62	21.61	-0.05	0.0465	0.0170	0.0421	0.3656	0.9053	1.1029	0.0394	0.5725	0.0357	0.5191
63	21.94	-0.10	0.0531	0.0174	0.0425	0.3277	0.8003	1.1117	0.0386	0.5767	0.0347	0.5188
64	22.23	-0.09	0.0531	0.0173	0.0433	0.3258	0.8153	1.1168	0.0385	0.5781	0.0345	0.5177
65	22.55	-0.10	0.0642	0.0192	0.0473	0.2991	0.7366	1.1338	0.0381	0.5861	0.0336	0.5169
66	22.86	-0.06	0.0593	0.0185	0.0453	0.3120	0.7632	1.1417	0.0380	0.5907	0.0333	0.5174
67	23.20	-0.09	0.0617	0.0191	0.0460	0.3096	0.7449	1.1586	0.0375	0.6010	0.0324	0.5187
68	23.54	-0.09	0.0622	0.0197	0.0494	0.3167	0.7946	1.1695	0.0367	0.6038	0.0314	0.5163
69	23.84	-0.06	0.0621	0.0198	0.0486	0.3188	0.7825	1.1774	0.0363	0.6072	0.0308	0.5157
70	24.17	-0.11	0.0683	0.0207	0.0511	0.3031	0.7476	1.1772	0.0362	0.6089	0.0308	0.5172
71	24.49	-0.09	0.0654	0.0209	0.0522	0.3196	0.7980	1.1928	0.0357	0.6155	0.0299	0.5160
72	24.81	-0.10	0.0656	0.0204	0.0521	0.3110	0.7936	1.1964	0.0349	0.6159	0.0292	0.5148
73	25.10	-0.09	0.0633	0.0196	0.0506	0.3096	0.7992	1.2070	0.0344	0.6209	0.0285	0.5144
74	25.43	-0.10	0.0563	0.0179	0.0456	0.3179	0.8092	1.2194	0.0339	0.6283	0.0278	0.5153
75	25.73	-0.12	0.0732	0.0214	0.0529	0.2923	0.7226	1.2246	0.0338	0.6321	0.0276	0.5161
76	26.03	-0.12	0.0693	0.0208	0.0531	0.3001	0.7661	1.2451	0.0328	0.6420	0.0263	0.5156
77	26.32	-0.12	0.0633	0.0192	0.0503	0.3033	0.7945	1.2526	0.0325	0.6450	0.0259	0.5149
78	26.67	-0.12	0.0618	0.0188	0.0506	0.3042	0.8187	1.2547	0.0318	0.6472	0.0253	0.5158
79	26.96	-0.13	0.0653	0.0197	0.0518	0.3017	0.7926	1.2633	0.0313	0.6517	0.0248	0.5159
80	27.30	-0.09	0.0741	0.0202	0.0546	0.2726	0.7367	1.2680	0.0309	0.6532	0.0244	0.5152
81	27.61	-0.09	0.0567	0.0180	0.0488	0.3175	0.8606	1.2691	0.0307	0.6515	0.0242	0.5133
82	27.92	-0.11	0.0604	0.0188	0.0500	0.3113	0.8282	1.2768	0.0304	0.6576	0.0238	0.5151
83	28.24	-0.10	0.0716	0.0209	0.0560	0.2919	0.7815	1.2738	0.0305	0.6550	0.0239	0.5142
84	28.55	-0.13	0.0659	0.0194	0.0535	0.2944	0.8173	1.2728	0.0309	0.6551	0.0243	0.5147
85	28.90	-0.15	0.0612	0.0188	0.0514	0.3072	0.8398	1.2721	0.0310	0.6581	0.0244	0.5173
86	29.20	-0.13	0.0740	0.0202	0.0558	0.2736	0.7535	1.2558	0.0317	0.6487	0.0252	0.5165
87	29.54	-0.13	0.0701	0.0204	0.0554	0.2910	0.7897	1.2716	0.0314	0.6572	0.0247	0.5168
88	29.85	-0.11	0.0777	0.0210	0.0595	0.2703	0.7656	1.2728	0.0312	0.6571	0.0245	0.5163

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CUNF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION
0	6.10	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.74	0.01	-0.4616	1.5982	0.1592	-0.2358	0.0120	0.3796	-3.4619	
2	-2.73	0.0	-0.4492	1.6068	0.0865	-0.1946	0.0070	0.3743	-3.5767	
3	-2.75	-0.02	-0.5128	1.5865	-0.0134	-0.3212	0.0090	0.3792	-3.0943	
4	-2.31	-0.06	-0.4426	1.4126	-0.0470	-0.2142	0.0110	0.3744	-3.1913	
5	-1.68	-0.01	-0.3642	1.1867	0.0467	-0.2853	0.0160	0.3773	-3.2589	
6	-1.13	-0.01	-0.2226	0.7325	-0.0221	-0.1240	0.0090	0.3664	-3.2913	
7	-0.55	-0.02	-0.1232	0.4734	-0.0451	-0.1698	0.0100	0.3659	-3.8432	
8	-0.03	0.01	0.0369	0.0713	0.1459	-0.2002	0.0050	0.3655	-1.9333	
9	0.50	-0.01	0.1066	-0.1402	0.0489	-0.2334	0.0070	0.3671	-1.3156	
10	0.97	-0.01	0.2036	-0.3610	0.0363	-0.1608	0.0120	0.3625	-1.7733	
11	1.49	-0.02	0.2610	-0.5233	-0.0148	-0.0823	0.0090	0.3688	-2.0054	
12	1.94	-0.01	0.3967	-0.9084	0.0029	-0.1710	0.0050	0.3610	-2.2896	
13	2.40	0.0	0.4803	-1.2054	0.2448	-0.3007	0.0020	0.3740	-2.5095	
14	2.90	-0.06	0.5644	-1.5131	0.0357	-0.2040	0.0050	0.3807	-2.6808	
15	3.39	-0.08	0.6434	-1.8527	0.0233	-0.1146	0.0030	0.3778	-2.5666	
16	3.86	-0.05	0.8097	-2.0564	-0.0388	-0.0067	0.0020	0.3718	-2.5398	
17	4.31	0.0	0.9053	-2.4042	0.0316	-0.0372	-0.0010	0.3693	-2.6558	
18	4.76	-0.03	0.9863	-2.6356	-0.0059	-0.0467	0.0070	0.3748	-2.6723	
19	5.21	0.0	1.0586	-2.8158	0.0437	-0.1712	-0.0020	0.3636	-2.6600	
20	5.66	-0.04	1.1215	-3.0308	0.0002	-0.0353	-0.0010	0.3783	-2.7026	
21	6.10	-0.03	1.2040	-3.2845	0.0262	-0.1437	0.0040	0.3900	-2.7112	
22	6.53	0.0	1.2876	-3.4455	0.1886	-0.1520	0.0	0.3937	-2.6758	
23	6.99	-0.08	1.3712	-3.6645	-0.0065	-0.0799	0.0040	0.3969	-2.6724	
24	7.42	0.0	1.4757	-3.9237	0.0429	-0.1570	0.0	0.3943	-2.6589	
25	7.85	-0.08	1.5296	-4.0932	0.0382	-0.2095	-0.0060	0.3977	-2.6760	
26	8.29	0.0	1.6466	-4.2600	0.0660	-0.0804	0.0070	0.3825	-2.5871	
27	8.73	0.01	1.6867	-4.4551	0.0055	-0.0617	0.0040	0.3913	-2.6413	
28	9.12	-0.05	1.7572	-4.6228	-0.0083	-0.1044	-0.0020	0.3984	-2.6308	
29	9.54	-0.04	1.8855	-4.8833	0.1465	-0.1541	-0.0060	0.3942	-2.5900	
30	9.93	-0.04	1.9340	-4.9824	0.1001	-0.1261	-0.0070	0.3899	-2.5761	
31	10.34	-0.12	1.9413	-5.1166	0.0596	-0.0984	-0.0040	0.3851	-2.6356	
32	10.73	-0.06	2.0786	-5.3728	0.0071	-0.0429	-0.0050	0.3677	-2.5848	
33	11.13	-0.05	2.1634	-5.5195	0.0306	-0.0208	-0.0110	0.3821	-2.5513	
34	11.49	-0.05	2.2480	-5.6649	0.0556	-0.1258	-0.0130	0.3823	-2.5200	
35	11.84	-0.05	2.2941	-5.8014	0.0353	0.0126	-0.0100	0.3776	-2.5288	
36	12.22	-0.07	2.3878	-5.9016	-0.1180	-0.0078	-0.0140	0.3868	-2.4716	
37	12.57	-0.05	2.4484	-6.0504	-0.0048	0.0217	-0.0150	0.3922	-2.4712	
38	12.93	-0.04	2.5567	-6.2000	0.0646	0.0819	-0.0110	0.3758	-2.4250	
39	13.28	-0.11	2.5655	-6.2723	-0.2003	0.0664	-0.0090	0.3828	-2.4449	
40	13.65	-0.11	2.6705	-6.3863	-0.0805	0.0877	-0.0180	0.3716	-2.3915	
41	14.02	-0.09	2.7300	-6.4277	0.0174	0.0986	-0.0150	0.3725	-2.3544	
42	14.38	-0.10	2.7921	-6.5026	-0.1267	-0.0556	-0.0270	0.3551	-2.3289	
43	14.73	-0.08	2.8315	-6.5888	-0.1003	0.1834	-0.0210	0.3655	-2.3269	
44	15.07	-0.08	2.9177	-6.6675	-0.0394	0.1091	-0.0400	0.3715	-2.2852	
45	15.43	-0.06	2.9764	-6.6836	-0.0705	0.0597	-0.0280	0.3677	-2.2455	
46	15.77	-0.05	2.9576	-6.4224	-0.0966	0.2222	-0.0440	0.3660	-2.1715	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	6	1.10 1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.12	-0.09	3.1010	-6.5951	-0.0169	0.1216	-0.0550	0.3769	-2.1268	
48	16.44	-0.04	3.0608	-6.3868	0.0401	0.0469	-0.1100	0.3784	-2.0867	
49	16.79	-0.07	3.1662	-6.4814	-0.0234	0.0947	-0.1180	0.3695	-2.0471	
50	17.11	-0.01	3.1433	-6.2074	0.0915	-0.0181	-0.0740	0.3698	-1.9939	
51	17.45	-0.02	3.1806	-6.3336	0.0121	0.2640	-0.0750	0.3718	-1.9913	
52	17.78	-0.03	3.3388	-6.4300	-0.1105	0.1557	-0.0760	0.3793	-1.9259	
53	18.10	-0.11	3.3489	-6.5032	-0.2041	0.3187	-0.0590	0.3630	-1.9419	
54	18.45	-0.13	3.4697	-6.6264	-0.0870	0.1138	-0.0720	0.3609	-1.9098	
55	18.77	-0.12	3.5079	-6.6879	-0.0107	-0.0070	-0.0760	0.3482	-1.9065	
56	19.13	-0.07	3.6870	-6.7886	-0.0754	0.3085	-0.0900	0.3555	-1.8412	
57	19.44	-0.10	3.7331	-6.8581	0.0991	0.1292	-0.0950	0.3535	-1.8371	
58	19.78	-0.08	3.8492	-6.9137	-0.0222	0.0391	-0.0730	0.3394	-1.7961	
59	20.13	-0.13	3.9727	-7.0606	-0.1448	0.4597	-0.0900	0.3286	-1.7773	
60	20.46	-0.13	4.0408	-7.1459	-0.1400	0.2460	-0.0940	0.3246	-1.7684	
61	20.81	-0.08	4.1535	-7.1587	0.0330	0.2118	-0.0990	0.3200	-1.7235	
62	21.12	-0.09	4.1872	-7.2718	0.0003	0.4825	-0.1050	0.3139	-1.7367	
63	21.49	-0.07	4.3300	-7.2649	-0.0023	0.3462	-0.1050	0.3205	-1.6778	
64	21.78	-0.10	4.4019	-7.3815	-0.0477	0.1908	-0.0810	0.3040	-1.6769	
65	22.12	-0.11	4.4825	-7.3974	-0.1018	0.1895	-0.0830	0.3147	-1.6503	
66	22.41	-0.08	4.5238	-7.4402	0.0057	0.3220	-0.1000	0.2999	-1.6447	
67	22.73	-0.11	4.5747	-7.4534	0.1255	-0.0047	-0.0790	0.2903	-1.6293	
68	23.06	-0.12	4.7519	-7.4625	0.0245	-0.0129	-0.0830	0.2814	-1.5704	
69	23.37	-0.12	4.8105	-7.4816	0.0561	-0.0705	-0.0700	0.2800	-1.5553	
70	23.69	-0.11	4.8253	-7.5383	0.0082	0.1085	-0.1050	0.2802	-1.5622	
71	24.01	-0.12	4.8827	-7.5696	-0.1084	0.2617	-0.0960	0.2708	-1.5503	
72	24.39	-0.13	5.1821	-7.6019	0.0323	-0.1842	-0.0760	0.2641	-1.4670	
73	24.67	-0.14	5.1651	-7.6091	0.1382	-0.3764	-0.0750	0.2646	-1.4732	
74	25.00	-0.12	5.2917	-7.5944	0.1032	0.0395	-0.0990	0.2462	-1.4351	
75	25.28	-0.13	5.2955	-7.5627	0.1526	-0.2556	-0.0440	0.2315	-1.4281	
76	25.59	-0.12	5.3901	-7.6251	0.0657	-0.2140	-0.0570	0.2344	-1.4447	
77	25.91	-0.12	5.6093	-7.6340	0.1570	-0.4437	-0.0420	0.2337	-1.3610	
78	26.23	-0.12	5.6833	-7.6916	0.0534	-0.2797	-0.0550	0.2422	-1.3534	
79	26.52	-0.13	5.7927	-7.6269	0.0154	-0.1075	-0.0480	0.2301	-1.3166	
80	26.85	-0.12	5.8920	-7.5919	0.1051	-0.2541	-0.0490	0.2203	-1.2835	
81	27.16	-0.12	6.0671	-7.6641	0.1510	-0.3534	-0.0310	0.2278	-1.2632	
82	27.49	-0.11	6.1397	-7.5627	0.0734	-0.0038	-0.0500	0.2346	-1.2318	
83	27.80	-0.10	6.3505	-7.6338	0.1538	-0.2483	-0.0580	0.2186	-1.2021	
84	28.10	-0.10	6.4386	-7.6272	0.2245	-0.2753	-0.0460	0.2174	-1.1846	
85	28.43	-0.14	6.5851	-7.6564	0.0138	-0.3293	-0.0490	0.2139	-1.1627	
86	28.75	-0.11	6.6646	-7.6357	0.0625	-0.2575	-0.0320	0.2016	-1.1463	
87	29.08	-0.12	6.8614	-7.5722	0.1714	-0.6059	-0.0360	0.1814	-1.1036	
88	29.38	-0.08	6.9121	-7.4922	0.1601	-0.1671	-0.0680	0.1827	-1.0839	
89	29.70	-0.07	6.9551	-7.5554	0.4638	-0.7564	-0.0350	0.1648	-1.0863	
90	29.87	-0.16	7.0617	-7.5646	-0.0538	-0.7716	0.0110	0.1609	-1.0712	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6	1.10	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI1	CB1	XCPF1	YCPF1	CNF2	CHI2	CB2	XCPF2	YCPF2
1	-2.74	0.01	0.0538	0.0016	0.0022	0.0297	0.0414	-0.1756	-0.0414	-0.1020	0.2358	0.5809
2	-2.73	0.0	0.0574	0.0016	0.0020	0.0279	0.0353	-0.1804	-0.0416	-0.1031	0.2306	0.5716
3	-2.75	-0.02	0.0668	0.0032	0.0057	0.0479	0.0847	-0.1750	-0.0416	-0.1046	0.2377	0.5978
4	-2.31	-0.06	0.0616	0.0026	0.0036	0.0422	0.0589	-0.1462	-0.0385	-0.0915	0.2633	0.6260
5	-1.68	-0.01	0.0670	0.0039	0.0065	0.0582	0.1034	-0.1112	-0.0331	-0.0741	0.2977	0.6659
6	-1.13	-0.01	0.0513	0.0016	0.0021	0.0312	0.0408	-0.0501	-0.0227	-0.0516	0.4531	1.0298
7	-0.55	-0.02	0.0630	0.0035	0.0074	0.0556	0.1173	-0.0218	-0.0150	-0.0350	0.6881	1.6039
8	-0.03	0.01	0.0641	0.0033	0.0071	0.0515	0.1101	0.0308	-0.0004	-0.0071	-0.0130	-0.2317
9	0.50	-0.01	0.0561	0.0020	0.0051	0.0357	0.0708	0.0614	0.0057	0.0064	0.0928	0.1036
10	0.97	-0.01	0.0559	0.0013	0.0030	0.0233	0.0541	0.0912	0.0132	0.0186	0.1447	0.2038
11	1.49	-0.02	0.0663	0.0033	0.0100	0.0498	0.1507	0.1189	0.0234	0.0341	0.1716	0.2870
12	1.94	-0.01	0.0619	0.0037	0.0086	0.0598	0.1394	0.1684	0.0308	0.0603	0.1829	0.3582
13	2.40	0.0	0.0657	0.0037	0.0082	0.0563	0.1247	0.2058	0.0335	0.0741	0.1725	0.3599
14	2.90	-0.06	-0.0714	-0.0051	-0.1060	0.0714	-1.4847	0.2552	0.0408	0.0966	0.1599	0.3787
15	3.39	-0.08	0.0659	0.0038	0.0074	0.0577	0.1117	0.2762	0.0428	0.0990	0.1550	0.3566
16	3.86	-0.05	0.0628	0.0028	0.0068	0.0446	0.1087	0.3401	0.0488	0.1315	0.1435	0.3867
17	4.31	0.0	0.0621	0.0021	0.0071	0.0338	0.1142	0.3876	0.0522	0.1533	0.1347	0.3954
18	4.76	-0.03	0.0687	0.0027	0.0079	0.0393	0.1149	0.4237	0.0543	0.1667	0.1282	0.3981
19	5.21	0.0	0.0554	0.0003	0.0018	0.0054	0.0318	0.4451	0.0547	0.1765	0.1229	0.3966
20	5.66	-0.04	0.0640	0.0005	0.0035	0.0078	0.0551	0.4850	0.0570	0.1956	0.1175	0.4033
21	6.10	-0.03	0.0612	0.0001	0.0035	0.006	0.0571	0.5171	0.0587	0.2070	0.1135	0.4003
22	6.53	0.0	0.0646	0.0001	0.0056	0.0015	0.0871	0.5511	0.0600	0.2215	0.1089	0.4020
23	6.99	-0.08	0.0719	0.0004	0.0076	0.0056	0.1051	0.5813	0.0615	0.2362	0.1058	0.4063
24	7.42	0.0	0.0672	0.0	0.0041	0.0	0.0609	0.6069	0.0616	0.2423	0.1015	0.3993
25	7.85	-0.08	0.0667	-0.0004	0.0048	-0.0000	0.0723	0.6454	0.0631	0.2606	0.0978	0.4037
26	8.29	0.0	0.0668	-0.0006	0.0042	-0.0090	0.0623	0.6660	0.0632	0.2695	0.0949	0.4047
27	8.73	0.01	0.0584	-0.0011	-0.0000	-0.0188	-0.0007	0.6946	0.0641	0.2802	0.0923	0.4033
28	9.12	-0.05	0.0597	-0.0005	0.0028	-0.0084	0.0468	0.7300	0.0634	0.2933	0.0896	0.4046
29	9.54	-0.04	0.0571	-0.0008	0.0020	-0.0140	0.0355	0.7656	0.0662	0.3096	0.0865	0.4044
30	9.93	-0.04	0.0557	-0.0004	0.0022	-0.0072	0.0726	0.7846	0.0671	0.3173	0.0855	0.4045
31	10.34	-0.12	0.0545	-0.0004	0.0043	-0.0073	0.0782	0.7961	0.0669	0.3242	0.0840	0.4072
32	10.73	-0.06	0.0442	-0.0016	0.0015	-0.0362	0.0346	0.8364	0.0695	0.3431	0.0631	0.4102
33	11.13	-0.05	0.0466	-0.0016	0.0029	-0.0343	0.0628	0.8668	0.0703	0.3556	0.0809	0.4093
34	11.49	-0.05	0.0393	-0.0016	0.0021	-0.0407	0.0533	0.8925	0.0714	0.3651	0.0800	0.4091
35	11.84	-0.05	0.0379	-0.0026	-0.0018	-0.0686	-0.0467	0.9069	0.0717	0.3709	0.0791	0.4090
36	12.22	-0.07	0.0344	-0.0022	-0.0032	-0.0573	-0.0835	0.9340	0.0729	0.3813	0.0781	0.4083
37	12.57	-0.05	0.0329	-0.0024	-0.0003	-0.0729	-0.0103	0.9556	0.0737	0.3926	0.0771	0.4109
38	12.93	-0.04	0.0291	-0.0028	-0.0023	-0.0962	-0.0792	0.9618	0.0754	0.4009	0.0768	0.4084
39	13.28	-0.11	0.0281	-0.0027	-0.0030	-0.0961	-0.1081	0.9942	0.0757	0.4071	0.0761	0.4095
40	13.65	-0.11	0.0161	-0.0040	-0.0047	-0.2484	-0.2941	1.0092	0.0764	0.4163	0.0757	0.4125
41	14.02	-0.09	0.0169	-0.0043	-0.0033	-0.2544	-0.1934	1.0306	0.0777	0.4263	0.0754	0.4137
42	14.38	-0.10	0.0071	-0.0067	-0.0049	-0.9437	-1.3992	1.0389	0.0789	0.4300	0.0759	0.4139
43	14.73	-0.08	0.0089	-0.0060	-0.0093	-0.6742	-1.0488	1.0581	0.0795	0.4380	0.0751	0.4139
44	15.07	-0.08	-0.0043	-0.0091	-0.0137	2.1163	3.1937	1.0812	0.0800	0.4492	0.0740	0.4154
45	15.43	-0.06	-0.0050	-0.0085	-0.0148	1.7000	2.9532	1.0720	0.0842	0.4484	0.0785	0.4183
46	15.77	-0.05	0.0107	-0.0065	-0.0067	-0.6075	-0.6294	1.0740	0.0843	0.4517	0.0785	0.4206

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6	6	1.10	1.7	0.0	B2W0F16	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.12	-0.09	-0.0004	-0.0093	-0.0163	23.2500	40.8332	1.0995	0.0829	0.4620	0.0754	0.4202
48	16.44	-0.04	0.0095	-0.0094	-0.0155	-C.9895	-1.6352	1.1167	0.0818	0.4680	0.0733	0.4191
49	16.79	-0.07	0.0001	-0.0121	-0.0180	121.0000	174.6667	1.1310	0.0804	0.4773	0.0711	0.4220
50	17.11	-0.01	-0.0137	-0.0132	-0.0253	0.9635	1.8442	1.0661	0.0584	0.4421	0.0548	0.4147
51	17.45	-0.02	-0.0252	-0.0131	-0.0224	0.5198	0.9086	1.0742	0.0581	0.4487	0.0538	0.4158
52	17.78	-0.03	-0.0091	-0.0126	-0.0280	1.3846	3.0805	1.1005	0.0545	0.4544	0.0495	0.4129
53	18.10	-0.11	-0.0178	-0.0145	-0.0307	0.8146	1.7265	1.1097	0.0507	0.4603	0.0457	0.4148
54	18.45	-0.13	-0.0221	-0.0160	-0.0359	0.7240	1.6228	1.1260	0.0489	0.4680	0.0434	0.4149
55	18.77	-0.12	-0.0296	-0.0162	-0.0370	0.5473	1.2488	1.1354	0.0477	0.4706	0.0420	0.4145
56	19.13	-0.07	-0.0472	-0.0167	-0.0392	0.3538	0.8311	1.1561	0.0472	0.4786	0.0408	0.4140
57	19.44	-0.10	-0.0370	-0.0178	-0.0478	0.4811	1.2927	1.1757	0.0436	0.4863	0.0371	0.4136
58	19.78	-0.08	-0.0397	-0.0171	-0.0518	0.4307	1.3055	1.1873	0.0419	0.4911	0.0353	0.4136
59	20.13	-0.13	-0.0536	-0.0163	-0.0458	0.3041	0.8537	1.2008	0.0407	0.4960	0.0339	0.4131
60	20.46	-0.13	-0.0508	-0.0170	-0.0516	0.3346	1.0163	1.2166	0.0398	0.5023	0.0327	0.4129
61	20.81	-0.08	-0.0454	-0.0157	-0.0472	0.3458	1.0403	1.2310	0.0399	0.5092	0.0324	0.4136
62	21.12	-0.09	-0.0773	-0.0191	-0.0528	0.2471	0.6825	1.2466	0.0390	0.5171	0.0313	0.4148
63	21.49	-0.07	-0.0583	-0.0165	-0.0489	0.2830	0.8392	1.2699	0.0385	0.5253	0.0303	0.4137
64	21.78	-0.10	-0.0132	-0.0110	-0.0350	0.8333	2.6514	1.2725	0.0372	0.5261	0.0292	0.4135
65	22.12	-0.11	-0.0235	-0.0122	-0.0401	0.5191	1.7077	1.2896	0.0366	0.5322	0.0284	0.4127
66	22.41	-0.08	-0.0297	-0.0126	-0.0433	1.4242	1.4578	1.3063	0.0356	0.5413	0.0274	0.4144
67	22.73	-0.11	0.0083	-0.0083	-0.0335	-1.0723	-4.0403	1.3105	0.0348	0.5403	0.0266	0.4123
68	23.06	-0.12	-0.0493	-0.0154	-0.0533	0.3124	1.0817	1.3310	0.0348	0.5496	0.0261	0.4129
69	23.37	-0.12	0.0306	-0.0066	-0.0270	-0.2157	-0.8825	1.3395	0.0337	0.5530	0.0252	0.4129
70	23.69	-0.11	-0.0259	-0.0113	-0.0451	0.4363	1.7425	1.3502	0.0335	0.5588	0.0248	0.4139
71	24.01	-0.12	-0.0275	-0.0121	-0.0475	0.4400	1.7259	1.3636	0.0326	0.5647	0.0239	0.4141
72	24.39	-0.13	0.0352	-0.0045	-0.0204	-0.1278	-0.5787	1.3800	0.0318	0.5702	0.0230	0.4132
73	24.67	-0.14	0.0220	-0.0065	-0.0274	-0.2955	-1.2441	1.3927	0.0316	0.5726	0.0227	0.4111
74	25.00	-0.12	0.0255	-0.0065	-0.0256	-0.2549	-1.0040	1.4033	0.0310	0.5797	0.0221	0.4131
75	25.28	-0.13	0.0543	-0.0034	-0.0146	-0.0626	-0.2690	1.4018	0.0309	0.5779	0.0220	0.4123
76	25.59	-0.12	0.0294	-0.0058	-0.0210	-0.1973	-0.7144	1.4069	0.0306	0.5808	0.0217	0.4128
77	25.91	-0.12	0.0556	-0.0022	-0.0075	-0.0396	-0.1416	1.4343	0.0294	0.5945	0.0205	0.4145
78	26.23	-0.12	0.0145	-0.0071	-0.0309	-0.4897	-2.1289	1.4452	0.0293	0.5996	0.0203	0.4149
79	26.52	-0.13	0.0205	-0.0055	-0.0187	-0.2683	-0.9107	1.4578	0.0289	0.6033	0.0198	0.4138
80	26.85	-0.12	0.0876	0.0021	0.0101	0.0240	0.1152	1.4564	0.0281	0.6039	0.0193	0.4146
81	27.16	-0.12	0.1250	0.0058	0.0230	0.0464	0.1836	1.4858	0.0274	0.6171	0.0184	0.4153
82	27.49	-0.11	0.0381	-0.0023	-0.0085	-0.0604	-0.2232	1.4862	0.0273	0.6143	0.0184	0.4134
83	27.80	-0.10	0.0776	0.0026	0.0035	0.0335	0.0446	1.5068	0.0265	0.6221	0.0176	0.4129
84	28.10	-0.10	0.0798	0.0018	0.0015	0.0226	0.0187	1.5016	0.0260	0.6220	0.0173	0.4142
85	28.43	-0.14	0.1136	0.0083	0.0348	0.0731	0.3059	1.5205	0.0255	0.6271	0.0168	0.4124
86	28.75	-0.11	0.0590	-0.0011	-0.0084	-0.0186	-0.1431	1.5177	0.0255	0.6282	0.0168	0.4139
87	29.08	-0.12	0.1159	0.0075	0.0317	0.0647	0.2737	1.5267	0.0242	0.6296	0.0159	0.4124
88	29.38	-0.08	0.0369	-0.0031	-0.0137	-0.0640	-0.3714	1.5281	0.0240	0.6319	0.0157	0.4135
89	29.70	-0.07	0.0904	0.0032	0.0227	0.0354	0.2514	1.5249	0.0235	0.6315	0.0154	0.4141
90	29.87	-0.16	0.1742	0.0114	0.0582	0.0654	0.3344	1.5359	0.0234	0.6343	0.0152	0.4130

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AEDC-TR-75-125

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6	1.10	1.7	0.0	BZNOF16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.74	0.01	0.0206	0.0070	0.0160	0.3398	0.7750	-0.3292	-0.0385	-0.0718	0.1170	0.2181
2	-2.73	0.0	0.0157	0.0065	0.0147	0.4140	0.9383	-0.3359	-0.0388	-0.0745	0.1155	0.2219
3	-2.75	-0.02	0.0190	0.0075	0.0174	0.3547	0.9174	-0.3318	-0.0385	-0.0750	0.1160	0.2259
4	-2.31	-0.06	0.0145	0.0065	0.0137	0.4483	0.9470	-0.3026	-0.0354	-0.0614	0.1170	0.2030
5	-1.68	-0.01	0.0239	0.0079	0.0183	0.3305	0.7642	-0.2526	-0.0292	-0.0390	0.1156	0.1543
6	-1.13	-0.01	0.0208	0.0065	0.0154	0.3125	0.7419	-0.2012	-0.0203	-0.0180	0.1009	0.0897
7	-0.55	-0.02	0.0266	0.0074	0.0188	0.2782	0.7054	-0.1683	-0.0120	-0.0032	0.0713	0.0189
8	-0.03	0.01	0.0265	0.0080	0.0181	0.3019	0.6842	-0.1085	0.0009	0.0218	-0.0083	-0.2013
9	0.50	-0.01	0.0254	0.0077	0.0170	0.3031	0.6679	-0.0745	0.0082	0.0380	-0.1101	-0.5097
10	0.77	-0.01	0.0245	0.0069	0.0162	0.2816	0.6597	-0.0412	0.0163	0.0523	-0.3956	-1.2687
11	1.49	-0.02	0.0278	0.0081	0.0181	0.2914	0.6498	-0.0209	0.0221	0.0626	-1.0574	-2.9969
12	1.94	-0.01	0.0360	0.0097	0.0225	0.2694	0.6249	0.0332	0.0324	0.0880	0.9759	2.6495
13	2.40	0.0	0.0262	0.0083	0.0205	0.3168	0.7836	0.0672	0.0372	0.1028	0.5536	1.5296
14	2.90	-0.06	0.0342	0.0106	0.0235	0.3099	0.6987	0.1115	0.0420	0.1229	0.3767	1.1018
15	3.39	-0.08	0.0344	0.0099	0.0241	0.2878	0.6995	0.1429	0.0445	0.1341	0.3114	0.9385
16	3.86	-0.05	0.0262	0.0085	0.0205	0.3244	0.7836	0.1961	0.0472	0.1617	0.2509	0.8248
17	4.31	0.0	0.0344	0.0097	0.0248	0.2820	0.7198	0.2443	0.0517	0.1814	0.2116	0.7425
18	4.76	-0.03	0.0249	0.0084	0.0206	0.3373	0.8272	0.2790	0.0534	0.1980	0.1914	0.7096
19	5.21	0.0	0.0404	0.0105	0.0268	0.2599	0.6024	0.3067	0.0541	0.2091	0.1764	0.6818
20	5.66	-0.04	0.0395	0.0098	0.0256	0.2481	0.6471	0.3573	0.0561	0.2278	0.1592	0.6466
21	6.10	-0.03	0.0346	0.0093	0.0241	0.2688	0.6974	0.3734	0.0569	0.2385	0.1524	0.6388
22	6.53	0.0	0.0354	0.0098	0.0273	0.2768	0.7111	0.4194	0.0585	0.2562	0.1394	0.6103
23	6.99	-0.08	0.0378	0.0107	0.0266	0.2831	0.7036	0.4449	0.0594	0.2659	0.1335	0.5978
24	7.42	0.0	0.0418	0.0100	0.0277	0.2392	0.6034	0.4685	0.0601	0.2801	0.1283	0.5979
25	7.85	-0.08	0.0498	0.0123	0.0313	0.2470	0.6284	0.5027	0.0608	0.2925	0.1209	0.5819
26	8.29	0.0	0.0355	0.0097	0.0273	0.2732	0.7698	0.5305	0.0614	0.3058	0.1157	0.5764
27	8.73	0.01	0.0357	0.0094	0.0260	0.2633	0.7282	0.5609	0.0624	0.3172	0.1112	0.5655
28	9.12	-0.05	0.0377	0.0105	0.0283	0.2785	0.7497	0.5909	0.0627	0.3299	0.1061	0.5583
29	9.54	-0.04	0.0461	0.0119	0.0309	0.2531	0.6694	0.6268	0.0635	0.3470	0.1010	0.5519
30	9.93	-0.04	0.0507	0.0130	0.0333	0.2564	0.6567	0.6486	0.0641	0.3556	0.0988	0.5483
31	10.34	-0.12	0.0462	0.0122	0.0295	0.2641	0.6384	0.6660	0.0652	0.3619	0.0979	0.5434
32	10.73	-0.06	0.0520	0.0142	0.0311	0.2731	0.5986	0.7047	0.0674	0.3803	0.0956	0.5397
33	11.13	-0.05	0.0541	0.0155	0.0329	0.2805	0.6086	0.7343	0.0678	0.3942	0.0923	0.5368
34	11.49	-0.05	0.0488	0.0162	0.0323	0.3320	0.6611	0.7509	0.0683	0.4029	0.0910	0.5366
35	11.84	-0.05	0.0444	0.0147	0.0290	0.3311	0.6530	0.7670	0.0693	0.4094	0.0904	0.5337
36	12.22	-0.07	0.0511	0.0168	0.0333	0.3288	0.6522	0.7906	0.0698	0.4237	0.0876	0.5319
37	12.57	-0.05	0.0452	0.0158	0.0305	0.3496	0.6739	0.8183	0.0707	0.4327	0.0864	0.5287
38	12.93	-0.04	0.0462	0.0164	0.0316	0.3550	0.6839	0.8447	0.0724	0.4450	0.0857	0.5268
39	13.28	-0.11	0.0521	0.0175	0.0342	0.3359	0.6557	0.8608	0.0726	0.4527	0.0843	0.5259
40	13.65	-0.11	0.0521	0.0175	0.0342	0.3359	0.6557	0.8756	0.0740	0.4621	0.0845	0.5277
41	14.02	-0.09	0.0463	0.0160	0.0316	0.3456	0.6831	0.8903	0.0748	0.4693	0.0840	0.5271
42	14.38	-0.10	0.0486	0.0166	0.0330	0.3416	0.6789	0.8963	0.0762	0.4723	0.0850	0.5269
43	14.73	-0.08	0.0409	0.0135	0.0286	0.3301	0.7000	0.9114	0.0778	0.4795	0.0854	0.5261
44	15.07	-0.08	0.0519	0.0179	0.0355	0.3449	0.6839	0.9321	0.0771	0.4899	0.0827	0.5256
45	15.43	-0.06	0.0567	0.0188	0.0366	0.3316	0.6454	0.9395	0.0838	0.4968	0.0890	0.5287
46	15.77	-0.05	0.0452	0.0157	0.0321	0.3473	0.7093	0.9024	0.0856	0.4804	0.0949	0.5324

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6	1.10	1.7	0.0	B2WDF16	0.0	0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.12	-0.09	0.0591	0.0191	0.0395	0.3232	0.6682	0.9192	0.0835	0.4924	0.0908	0.5357
48	16.44	-0.04	0.0557	0.0182	0.0368	0.3268	0.6600	0.8987	0.0591	0.4507	0.0696	0.5310
49	16.79	-0.07	0.0518	0.0178	0.0381	0.3436	0.7348	0.8596	0.0574	0.4560	0.0668	0.5305
50	17.11	-0.01	0.0561	0.0193	0.0419	0.3440	0.7468	0.8889	0.0565	0.4682	0.0636	0.5267
51	17.45	-0.02	0.0669	0.0217	0.0445	0.3244	0.6651	0.8995	0.0546	0.4736	0.0607	0.5265
52	17.78	-0.03	0.0560	0.0194	0.0429	0.3464	0.7624	0.9189	0.0526	0.4858	0.0572	0.5287
53	18.10	-0.11	0.0468	0.0165	0.0385	0.3526	0.8225	0.9395	0.0502	0.4912	0.0534	0.5228
54	18.45	-0.13	0.0616	0.0213	0.0458	0.3458	0.7439	0.9474	0.0492	0.4977	0.0519	0.5250
55	18.77	-0.12	0.0558	0.0193	0.0442	0.3459	0.7920	0.9621	0.0467	0.5027	0.0485	0.5225
56	19.13	-0.07	0.0573	0.0192	0.0431	0.3351	0.7521	0.9830	0.0449	0.5126	0.0457	0.5215
57	19.44	-0.10	0.0686	0.0225	0.0504	0.3280	0.7341	0.9931	0.0447	0.5211	0.0450	0.5247
58	19.78	-0.08	0.0676	0.0221	0.0482	0.3269	0.7134	1.0163	0.0431	0.5284	0.0424	0.5200
59	20.13	-0.13	0.0593	0.0177	0.0405	0.2985	0.6823	1.0268	0.0411	0.5334	0.0400	0.5195
60	20.46	-0.13	0.0632	0.0207	0.0464	0.3035	0.6807	1.0432	0.0403	0.5404	0.0386	0.5180
61	20.81	-0.08	0.0683	0.0205	0.0466	0.3001	0.6817	1.0481	0.0400	0.5442	0.0382	0.5193
62	21.12	-0.09	0.0659	0.0198	0.0466	0.3005	0.7065	1.0653	0.0384	0.5512	0.0360	0.5174
63	21.49	-0.07	0.0756	0.0214	0.0485	0.2831	0.6467	1.0859	0.0383	0.5619	0.0353	0.5175
64	21.78	-0.10	0.0646	0.0198	0.0463	0.3065	0.7171	1.0909	0.0380	0.5636	0.0348	0.5166
65	22.12	-0.11	0.0688	0.0193	0.0445	0.2805	0.6530	1.1085	0.0373	0.5734	0.0336	0.5172
66	22.41	-0.08	0.0682	0.0204	0.0475	0.2991	0.6969	1.1159	0.0367	0.5756	0.0329	0.5158
67	22.73	-0.11	0.0716	0.0214	0.0501	0.2989	0.6991	1.1207	0.0363	0.5808	0.0324	0.5183
68	23.06	-0.12	0.0683	0.0200	0.0473	0.2928	0.6919	1.1281	0.0356	0.5831	0.0316	0.5169
69	23.37	-0.12	0.0765	0.0220	0.0508	0.2876	0.6639	1.1473	0.0354	0.5925	0.0309	0.5164
70	23.69	-0.11	0.0872	0.0240	0.0553	0.2752	0.6337	1.1495	0.0348	0.5938	0.0303	0.5166
71	24.01	-0.12	0.0675	0.0192	0.0453	0.2844	0.6710	1.1698	0.0341	0.6015	0.0292	0.5142
72	24.39	-0.13	0.0777	0.0224	0.0519	0.2883	0.6678	1.1760	0.0337	0.6058	0.0287	0.5151
73	24.67	-0.14	0.0813	0.0226	0.0540	0.2780	0.6641	1.1797	0.0335	0.6076	0.0284	0.5150
74	25.00	-0.12	0.0811	0.0230	0.0549	0.2836	0.6772	1.1914	0.0332	0.6100	0.0279	0.5120
75	25.28	-0.13	0.0686	0.0200	0.0465	0.2915	0.6772	1.1942	0.0333	0.6130	0.0279	0.5133
76	25.59	-0.12	0.0712	0.0199	0.0483	0.2795	0.6787	1.1975	0.0328	0.6167	0.0274	0.5150
77	25.91	-0.12	0.0758	0.0213	0.0513	0.2810	0.6762	1.2184	0.0320	0.6269	0.0263	0.5145
78	26.23	-0.12	0.0696	0.0205	0.0497	0.2945	0.7140	1.2195	0.0319	0.6288	0.0262	0.5156
79	26.52	-0.13	0.0770	0.0211	0.0534	0.2740	0.6930	1.2349	0.0313	0.6339	0.0253	0.5133
80	26.85	-0.12	0.0784	0.0211	0.0525	0.2691	0.6699	1.2374	0.0312	0.6351	0.0252	0.5133
81	27.16	-0.12	0.0769	0.0217	0.0534	0.2822	0.6947	1.2620	0.0301	0.6494	0.0239	0.5146
82	27.49	-0.11	0.0700	0.0193	0.0495	0.2757	0.7075	1.2611	0.0297	0.6499	0.0236	0.5154
83	27.80	-0.10	0.0880	0.0225	0.0561	0.2557	0.6378	1.2735	0.0292	0.6547	0.0229	0.5141
84	28.10	-0.10	0.0804	0.0215	0.0554	0.2674	0.6889	1.2718	0.0288	0.6570	0.0226	0.5166
85	28.43	-0.14	0.0803	0.0216	0.0561	0.2690	0.6981	1.2833	0.0285	0.6610	0.0222	0.5151
86	28.75	-0.11	0.0701	0.0191	0.0487	0.2725	0.6941	1.2832	0.0283	0.6604	0.0221	0.5146
87	29.08	-0.12	0.0948	0.0241	0.0612	0.2542	0.6455	1.2780	0.0281	0.6586	0.0220	0.5154
88	29.38	-0.08	0.0856	0.0217	0.0561	0.2535	0.6556	1.2809	0.0280	0.6592	0.0219	0.5147
89	29.70	-0.07	0.0856	0.0220	0.0570	0.2570	0.6662	1.2853	0.0270	0.6632	0.0210	0.5160
90	29.87	-0.16	0.0606	0.0216	0.0565	0.2680	0.7005	1.2951	0.0271	0.6685	0.0209	0.5162

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH4	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	7	0.85	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.77	0.03	-0.2873	0.8651	0.0704	-0.0026	0.0030	0.1606	-3.0116	
2	-2.58	0.02	-0.2650	0.8319	0.0167	-0.0254	0.0020	0.1656	-3.1396	
3	-1.99	0.01	-0.1715	0.5910	-0.0265	-0.0389	0.0	0.1664	-3.4466	
4	-1.37	0.04	-0.0832	0.3324	0.1306	0.1241	0.0050	0.1683	-3.4962	
5	-0.83	0.02	-0.0221	0.1329	0.0605	-0.0437	0.0050	0.1702	-6.0154	
6	-0.28	0.03	0.0698	-0.0277	0.0194	0.0698	0.0020	0.1735	-0.8269	
7	0.23	0.02	0.1629	-0.2620	0.0646	-0.0114	0.0	0.1707	-1.6087	
8	0.76	0.03	0.2219	-0.4156	0.0809	0.0547	0.0010	0.1707	-1.8732	
9	1.24	0.02	0.3143	-0.6559	0.0246	-0.0354	0.0020	0.1742	-2.0872	
10	1.73	0.01	0.3920	-0.8738	-0.0665	-0.0009	0.0040	0.1701	-2.2289	
11	2.22	0.01	0.4673	-1.0812	0.0858	0.0159	0.0010	0.1726	-2.3136	
12	2.68	0.0	0.5419	-1.2786	0.0649	-0.0758	-0.0010	0.1705	-2.3594	
13	3.20	0.02	0.6326	-1.5286	0.0933	0.0704	0.0040	0.1691	-2.4163	
14	3.65	0.01	0.7334	-1.8207	0.0927	0.0832	0.0050	0.1668	-2.4825	
15	4.12	0.0	0.8256	-2.0497	-0.0233	0.0566	0.0090	0.1637	-2.5433	
16	4.55	0.0	0.8903	-2.3053	0.0115	0.0469	0.0030	0.1665	-2.5844	
17	5.03	-0.01	1.0021	-2.6067	-0.0486	0.0620	0.0010	0.1639	-2.6014	
18	5.45	0.0	1.1011	-2.8943	-0.0120	0.0458	0.0030	0.1684	-2.6287	
19	5.92	-0.01	1.1813	-3.1577	-0.0247	0.0136	0.0060	0.1672	-2.6730	
20	6.35	0.0	1.2609	-3.4003	0.0307	0.0420	0.0	0.1668	-2.6796	
21	6.81	-0.01	1.3473	-3.5930	-0.0272	-0.0194	0.0020	0.1714	-2.6668	
22	7.25	0.0	1.4077	-3.7296	0.0284	0.0762	0.0040	0.1713	-2.6494	
23	7.69	0.0	1.4752	-3.9060	0.0162	0.0403	0.0020	0.1756	-2.6478	
24	8.12	0.0	1.5535	-4.0476	0.0203	0.0426	-0.0010	0.1756	-2.6055	
25	8.56	0.0	1.6204	-4.2173	0.0161	0.0535	-0.0020	0.1766	-2.6026	
26	8.96	0.0	1.6826	-4.3194	0.0183	0.0244	-0.0070	0.1805	-2.5671	
27	9.34	-0.01	1.7376	-4.4513	-0.0417	0.0264	-0.0050	0.1773	-2.5618	
28	9.78	0.01	1.8044	-4.5878	0.0823	0.1088	-0.0050	0.1732	-2.5356	
29	10.15	-0.01	1.8669	-4.6413	0.0431	0.0956	-0.0110	0.1764	-2.5130	
30	10.58	-0.01	1.9254	-4.8513	0.0720	-0.0018	-0.0130	0.1773	-2.5196	
31	10.96	-0.02	1.9829	-4.9618	0.0617	0.0366	-0.0090	0.1756	-2.5023	
32	11.36	-0.03	2.0611	-5.0563	0.0164	0.0340	-0.0150	0.1787	-2.4532	
33	11.71	-0.02	2.1074	-5.1481	0.0662	0.0183	-0.0180	0.1812	-2.4428	
34	12.09	-0.03	2.1840	-5.2863	0.0350	-0.0130	-0.0100	0.1800	-2.4205	
35	12.43	-0.02	2.2473	-5.3949	0.0703	0.1266	-0.0120	0.1827	-2.4006	
36	12.78	-0.03	2.2947	-5.4693	0.0704	-0.0016	-0.0140	0.1831	-2.3834	
37	13.15	-0.04	2.3586	-5.5887	-0.0518	0.0385	-0.0170	0.1814	-2.3695	
38	13.44	-0.03	2.3896	-5.6101	0.0312	-0.0037	-0.0210	0.1791	-2.3477	
39	13.87	-0.05	2.4022	-5.5468	0.0379	-0.0501	-0.0350	0.1862	-2.3091	
40	14.22	-0.05	2.4247	-5.3793	0.0281	-0.0713	-0.0410	0.1924	-2.2186	
41	14.60	-0.05	2.4533	-5.3263	0.0075	-0.0465	-0.0340	0.1970	-2.1711	
42	14.93	-0.05	2.5057	-5.3237	0.0203	0.0306	-0.0340	0.2012	-2.1247	
43	15.29	-0.05	2.5094	-5.3439	0.0203	-0.0054	-0.0340	0.2043	-2.1296	
44	15.62	-0.05	2.5714	-5.3407	-0.0002	-0.0897	-0.0340	0.2041	-2.0770	
45	15.97	-0.05	2.6065	-5.2578	0.0420	-0.1088	-0.0500	0.2066	-2.0172	
46	16.28	-0.04	2.6248	-5.2524	0.0545	0.0287	-0.0490	0.2056	-2.0011	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 7 0.85 1.7 0.0 B2WDF13 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	16.62	-0.05	2.6756	-5.2297	0.0175	-0.1195	-0.0550	0.2005	-1.9546
48	16.96	-0.06	2.7168	-5.1684	0.0178	-0.1409	-0.0530	0.2048	-1.9024
49	17.27	-0.06	2.7082	-5.0964	0.0681	-0.1823	-0.0630	0.2120	-1.8818
50	17.62	-0.06	2.6711	-4.6893	0.1340	-0.4435	-0.1010	0.2182	-1.7556
51	17.95	-0.07	2.7031	-4.6483	0.0968	-0.5354	-0.0890	0.2166	-1.7196
52	18.29	-0.06	2.6909	-4.4442	0.0681	-0.2753	-0.0710	0.2269	-1.6516
53	18.62	-0.06	2.7245	-4.3833	0.0621	-0.2399	-0.0610	0.2186	-1.6088
54	18.97	-0.06	2.8591	-4.6987	0.0679	-0.3580	-0.0560	0.1962	-1.6434
55	19.28	-0.07	2.8541	-4.5757	-0.0068	-0.1775	-0.0520	0.2060	-1.6046
56	19.60	-0.07	2.9757	-4.8719	0.0031	-0.2353	-0.0390	0.1905	-1.6372
57	19.92	-0.08	3.0285	-5.0038	-0.0803	-0.1226	-0.0390	0.1863	-1.6522
58	20.25	-0.07	3.0904	-5.0015	0.0098	-0.0377	-0.0450	0.1791	-1.6184
59	20.59	-0.07	3.1585	-5.1018	0.0162	-0.0635	-0.0470	0.1751	-1.6153
60	20.91	-0.08	3.2094	-5.1420	-0.0756	-0.1335	-0.0590	0.1703	-1.6022
61	21.24	-0.07	3.3014	-5.4388	-0.0278	-0.1441	-0.0570	0.1576	-1.6474
62	21.55	-0.07	3.3657	-5.4808	-0.0922	-0.0199	-0.0540	0.1491	-1.6285
63	21.87	-0.06	3.4005	-5.5605	0.1454	-0.2235	-0.0650	0.1463	-1.6352
64	22.16	-0.07	3.4700	-5.6300	0.0393	-0.1300	-0.0740	0.1394	-1.6224
65	22.48	-0.07	3.5760	-5.7863	0.0162	-0.1007	-0.0530	0.1332	-1.6181
66	22.78	-0.08	3.5874	-5.9723	-0.0630	-0.0368	-0.0730	0.1271	-1.6648
67	23.09	-0.07	3.6865	-6.0940	0.1371	-0.3169	-0.0310	0.1150	-1.6531
68	23.40	-0.08	3.6579	-6.0610	0.0827	-0.2577	-0.0680	0.1010	-1.6569
69	23.71	-0.07	3.6068	-6.2264	0.1142	-0.1889	-0.0660	0.0912	-1.6356
70	24.04	-0.08	3.7862	-6.2406	-0.0692	-0.0439	-0.0660	0.0680	-1.6482
71	24.33	-0.08	3.8099	-6.2997	0.0224	-0.2203	-0.0680	0.0631	-1.6535
72	24.65	-0.07	3.8836	-6.3649	0.0853	-0.0594	-0.0670	0.0575	-1.6389
73	24.94	-0.07	3.9231	-6.3402	0.0960	-0.2034	-0.0710	0.0447	-1.6161
74	25.23	-0.07	3.9253	-6.1983	0.0923	-0.0282	-0.0740	0.0408	-1.5791
75	25.51	-0.09	3.9795	-6.3482	0.1189	-0.3334	-0.0530	0.0447	-1.5952
76	25.82	-0.08	4.0883	-6.3455	0.1633	-0.3256	-0.0550	0.0385	-1.5521
77	26.10	-0.09	4.1428	-6.4548	0.0024	-0.1853	-0.0570	0.0370	-1.5581
78	26.41	-0.09	4.2176	-6.4296	0.0446	-0.2024	-0.0560	0.0273	-1.5245
79	26.71	-0.09	4.2504	-6.2886	0.0636	-0.2750	-0.0370	0.0187	-1.4795
80	27.00	-0.08	4.3207	-6.3520	0.1556	-0.3868	-0.0260	0.0156	-1.4701
81	27.32	-0.07	4.3636	-6.3460	0.1707	-0.1800	-0.0450	0.0122	-1.4543
82	27.60	-0.09	4.4705	-6.4767	0.0788	-0.2123	-0.0430	0.0027	-1.4488
83	27.92	-0.09	4.5296	-6.4574	-0.0062	-0.1503	-0.0620	-0.0084	-1.4256
84	28.21	-0.09	4.5903	-6.4924	0.0022	-0.1291	-0.0580	-0.0184	-1.4144
85	28.52	-0.09	4.6529	-6.4920	0.1707	-0.4809	-0.0050	-0.0218	-1.3953
86	28.82	-0.08	4.7232	-6.4695	-0.0176	0.2250	-0.0800	-0.0337	-1.3697
87	29.16	-0.08	4.7926	-6.3516	0.1430	-0.1982	-0.0150	-0.0438	-1.3253
88	29.40	-0.06	4.7581	-6.4763	0.3638	-0.3523	-0.0200	-0.0541	-1.3611

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 7 0.85 1.7 0.0 B2W0F13 0.0 U U U 0 Fixed

PGANT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	-2.77	0.03	-0.0192	-0.0020	-0.0101	0.1016	0.5259	-0.1418	-0.0312	-0.0751	0.2198	0.5294
2	-2.58	0.02	-0.0265	-0.0027	-0.0106	0.1020	0.4011	-0.1347	-0.0291	-0.0699	0.2158	0.5189
3	-1.99	0.01	-0.0262	-0.0023	-0.0093	0.0888	0.3561	-0.0967	-0.0222	-0.0537	0.2300	0.5558
4	-1.37	0.04	-0.0229	-0.0020	-0.0071	0.0865	0.3114	-0.0606	-0.0148	-0.0370	0.2440	0.6104
5	-0.83	0.02	-0.0173	-0.0013	-0.0055	0.0737	0.3390	-0.0293	-0.0086	-0.0217	0.2920	0.7394
6	-0.28	0.03	-0.0154	-0.0012	-0.0064	0.0780	0.4176	-0.0011	-0.0025	-0.0081	2.2514	7.3332
7	0.23	0.02	-0.0170	-0.0009	-0.0046	0.0530	0.2803	0.0389	0.0047	0.0065	0.1196	0.1661
8	0.76	0.03	-0.0100	-0.0005	-0.0045	0.0525	0.4532	0.0656	0.0107	0.0206	0.1624	0.3164
9	1.24	0.02	-0.0097	-0.0002	-0.0040	0.0232	0.4157	0.0498	0.0165	0.0330	0.1656	0.3312
10	1.73	0.01	-0.0176	-0.0016	-0.0056	0.0895	0.3275	0.1365	0.0226	0.0477	0.1656	0.3493
11	2.22	0.01	-0.0173	-0.0012	-0.0048	0.0694	0.2754	0.1667	0.0288	0.0622	0.1730	0.3734
12	2.68	0.0	-0.0158	-0.0014	-0.0052	0.0855	0.3269	0.1938	0.0345	0.0756	0.1778	0.3900
13	3.20	0.02	-0.0162	-0.0017	-0.0042	0.1019	0.2591	0.2225	0.0400	0.0892	0.1799	0.4007
14	3.65	0.01	-0.0014	0.0003	0.0001	-0.2144	-0.0954	0.2624	0.0470	0.1058	0.1791	0.4030
15	4.12	0.0	-0.0127	-0.0014	-0.0024	0.1064	0.1915	0.3048	0.0537	0.1254	0.1762	0.4114
16	4.55	0.0	-0.0184	-0.0022	-0.0036	0.1183	0.1973	0.3384	0.0587	0.1419	0.1735	0.4193
17	5.03	-0.01	-0.0202	-0.0023	-0.0045	0.1152	0.2243	0.3779	0.0618	0.1559	0.1635	0.4126
18	5.45	0.0	-0.0187	-0.0026	-0.0055	0.1405	0.2358	0.4074	0.0649	0.1735	0.1592	0.4258
19	5.92	-0.01	-0.0192	-0.0028	-0.0026	0.1446	0.1353	0.4405	0.0667	0.1863	0.1514	0.4229
20	6.35	0.0	-0.0245	-0.0033	-0.0048	0.1348	0.1944	0.4720	0.0685	0.1980	0.1451	0.4195
21	6.81	-0.01	-0.0178	-0.0028	-0.0008	0.1560	0.0467	0.5093	0.0706	0.2117	0.1386	0.4157
22	7.25	0.0	-0.0131	-0.0029	0.0004	0.2234	-0.0332	0.5233	0.0709	0.2181	0.1355	0.4168
23	7.69	0.0	-0.0103	-0.0035	0.0004	0.3352	-0.0357	0.5491	0.0710	0.2271	0.1292	0.4136
24	8.12	0.0	-0.0150	-0.0033	-0.0011	0.2201	0.0732	0.5683	0.0701	0.2335	0.1233	0.4109
25	8.56	0.0	-0.0193	-0.0042	-0.0004	0.2178	0.0223	0.5842	0.0695	0.2395	0.1190	0.4099
26	8.96	0.0	-0.0190	-0.0040	-0.0016	0.2093	0.0858	0.5985	0.0683	0.2453	0.1140	0.4098
27	9.34	-0.01	-0.0262	-0.0046	-0.0024	0.1747	0.0728	0.6163	0.0674	0.2484	0.1094	0.4030
28	9.78	0.01	-0.0120	-0.0048	0.0017	0.4002	-0.1418	0.6291	0.0662	0.2552	0.1053	0.4056
29	10.15	-0.01	-0.0274	-0.0059	-0.0033	0.2136	0.1215	0.6534	0.0641	0.2610	0.0981	0.3995
30	10.58	-0.01	-0.0224	-0.0058	-0.0028	0.2580	0.1234	0.6631	0.0622	0.2676	0.0938	0.4035
31	10.96	-0.02	-0.0267	-0.0065	-0.0014	0.2445	0.0523	0.6801	0.0636	0.2731	0.0894	0.4016
32	11.36	-0.03	-0.0219	-0.0065	0.0001	0.2981	-0.0047	0.6989	0.0589	0.2774	0.0843	0.3969
33	11.71	-0.02	-0.0305	-0.0071	-0.0026	0.2313	0.0840	0.7117	0.0584	0.2820	0.0821	0.3962
34	12.09	-0.03	-0.0199	-0.0075	0.0020	0.3771	-0.0789	0.7229	0.0552	0.2873	0.0763	0.3974
35	12.43	-0.02	-0.0316	-0.0091	0.0032	0.2874	-0.1003	0.7338	0.0549	0.2929	0.0748	0.3992
36	12.78	-0.03	-0.0239	-0.0094	0.0049	0.3925	-0.2065	0.7449	0.0531	0.2983	0.0713	0.4005
37	13.15	-0.04	-0.0266	-0.0093	0.0012	0.3498	-0.0465	0.7536	0.0517	0.2984	0.0686	0.3960
38	13.49	-0.03	-0.0316	-0.0109	0.0009	0.3444	-0.0275	0.7554	0.0514	0.2982	0.0681	0.3948
39	13.87	-0.05	-0.0242	-0.0099	0.0036	0.4093	-0.1589	0.7638	0.0487	0.3002	0.0637	0.3931
40	14.22	-0.05	-0.0108	-0.0094	0.0063	0.8686	-0.5835	0.7565	0.0459	0.2977	0.0606	0.3935
41	14.60	-0.05	-0.0280	-0.0108	-0.0007	0.3860	0.0261	0.7342	0.0402	0.2869	0.0548	0.3907
42	14.93	-0.05	-0.0339	-0.0128	0.0030	0.3763	-0.0886	0.7317	0.0385	0.2874	0.0526	0.3928
43	15.29	-0.05	-0.0309	-0.0134	0.0010	0.4323	-0.0325	0.7333	0.0379	0.2884	0.0517	0.3933
44	15.62	-0.05	-0.0255	-0.0130	0.0012	0.5041	-0.0472	0.7335	0.0374	0.2879	0.0510	0.3926
45	15.97	-0.05	-0.0301	-0.0119	-0.0067	0.3539	0.2236	0.7346	0.0369	0.2909	0.0502	0.3960
46	16.28	-0.04	-0.0518	-0.0137	-0.0092	0.2637	0.1768	0.7319	0.0370	0.2872	0.0506	0.3924

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	7	0.85	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED
ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	16.62	-0.05	-0.0375	-0.0140	-0.0056	0.3742	0.1492	0.7302	0.0369	0.2874	0.0506	0.3936
48	16.46	-0.06	-0.0462	-0.0132	-0.0090	0.2859	0.1947	0.7170	0.0372	0.2844	0.0518	0.3967
49	17.27	-0.06	-0.0361	-0.0143	-0.0060	0.3971	0.1670	0.7177	0.0374	0.2831	0.0521	0.3944
50	17.62	-0.06	-0.0014	-0.0164	0.0132	12.0611	-9.4525	0.7333	0.0362	0.2915	0.0494	0.3475
51	17.49	-0.07	-0.0342	-0.0127	-0.0217	0.3708	0.6344	0.6858	0.0378	0.2691	0.0552	0.3925
52	18.29	-0.06	-0.0409	-0.0142	-0.0207	0.3468	0.5068	0.6632	0.0378	0.2614	0.0571	0.3942
53	18.62	-0.06	-0.0104	-0.0164	0.0020	1.5078	-0.1805	0.6739	0.0372	0.2683	0.0553	0.3981
54	18.97	-0.06	0.0112	-0.0197	0.0202	-1.7623	1.8064	0.7022	0.0360	0.2820	0.0513	0.4016
55	19.28	-0.07	-0.0117	-0.0185	0.0048	1.5779	-0.4104	0.6803	0.0369	0.2724	0.0542	0.4004
56	19.60	-0.07	0.0078	-0.0209	0.0239	-2.6747	3.0640	0.7118	0.0356	0.2857	0.0503	0.4014
57	19.92	-0.08	0.0118	-0.0218	0.0256	-1.8444	2.1722	0.7320	0.0354	0.2907	0.0483	0.3972
58	20.25	-0.07	0.0042	-0.0263	0.0336	-6.2539	7.9999	0.7429	0.0348	0.2971	0.0468	0.3999
59	20.59	-0.07	-0.0084	-0.0222	0.0121	2.6445	-1.4406	0.7461	0.0345	0.2982	0.0463	0.3997
60	20.91	-0.08	-0.0220	-0.0234	0.0063	1.0609	-0.2850	0.7441	0.0347	0.2944	0.0466	0.4023
61	21.24	-0.07	-0.0263	-0.0217	0.0003	0.8247	-0.0128	0.7709	0.0336	0.3055	0.0435	0.3963
62	21.55	-0.07	-0.0076	-0.0264	0.0214	3.4758	-2.8115	0.8072	0.0321	0.3204	0.0397	0.3969
63	21.87	-0.06	-0.0472	-0.0158	-0.0247	0.3355	0.5239	0.7799	0.0333	0.3097	0.0427	0.3971
64	22.16	-0.07	-0.0322	-0.0215	-0.0037	0.6666	0.1158	0.8150	0.0315	0.3246	0.0387	0.3983
65	22.48	-0.07	-0.0215	-0.0245	-0.0013	0.9524	0.0568	0.8138	0.0315	0.3223	0.0387	0.3960
66	22.78	-0.08	-0.0423	-0.0207	-0.0104	0.4897	0.2457	0.8360	0.0303	0.3331	0.0363	0.3984
67	23.09	-0.07	-0.0507	-0.0131	-0.0275	0.2590	0.5423	0.8247	0.0303	0.3299	0.0365	0.3976
68	23.40	-0.08	-0.0556	-0.0134	-0.0307	0.2416	0.5526	0.8252	0.0306	0.3264	0.0371	0.3955
69	23.71	-0.07	-0.0107	-0.0090	-0.0182	0.8416	1.6477	0.8549	0.0291	0.3341	0.0341	0.3908
70	24.04	-0.08	-0.0392	-0.0286	0.0051	0.7294	-0.1311	0.8767	0.0278	0.3467	0.0317	0.3954
71	24.33	-0.08	-0.0214	-0.0107	-0.0139	0.5015	0.6510	0.8703	0.0277	0.3439	0.0318	0.3952
72	24.65	-0.07	-0.0337	-0.0136	-0.0200	0.4031	0.5943	0.8775	0.0277	0.3454	0.0316	0.3936
73	24.94	-0.07	-0.0403	-0.0151	-0.0210	0.3743	0.5218	0.8873	0.0276	0.3483	0.0311	0.3925
74	25.23	-0.07	-0.0469	-0.0194	-0.0181	0.4144	0.3865	0.8962	0.0264	0.3561	0.0295	0.3973
75	25.51	-0.09	-0.0024	-0.0033	-0.0236	1.3759	9.8332	0.8903	0.0267	0.3509	0.0299	0.3941
76	25.82	-0.08	-0.0178	-0.0083	-0.0224	0.4638	1.2602	0.8964	0.0264	0.3551	0.0295	0.3962
77	26.10	-0.09	-0.0160	-0.0077	-0.0189	0.4831	1.1832	0.9064	0.0263	0.3573	0.0290	0.3941
78	26.41	-0.09	-0.0164	-0.0110	-0.0154	0.6681	0.9369	0.9192	0.0254	0.3627	0.0276	0.3946
79	26.71	-0.09	0.0238	-0.0062	-0.0021	-0.2617	-0.0070	0.9110	0.0254	0.3603	0.0279	0.3955
80	27.00	-0.08	0.0024	-0.0093	-0.0044	-3.8774	-1.8335	0.9291	0.0247	0.3654	0.0266	0.3933
81	27.32	-0.07	-0.0349	-0.0211	-0.0199	0.6042	0.5710	0.9433	0.0237	0.3732	0.0252	0.3956
82	27.60	-0.09	0.0563	-0.0010	0.0182	-0.0173	0.3226	0.9386	0.0239	0.3704	0.0254	0.3946
83	27.92	-0.09	-0.0112	-0.0101	-0.0102	0.9046	0.9136	0.9548	0.0230	0.3766	0.0241	0.3944
84	28.21	-0.09	-0.0253	-0.0157	-0.0112	0.6200	0.4439	0.9649	0.0222	0.3805	0.0230	0.3945
85	28.52	-0.09	0.0656	-0.0004	0.0265	-0.0057	0.4033	0.9447	0.0231	0.3747	0.0243	0.3949
86	28.82	-0.08	0.0103	-0.0061	-0.0005	-0.5902	-0.0454	0.9641	0.0221	0.3794	0.0229	0.3935
87	29.16	-0.08	0.0628	-0.0009	0.0200	-0.0143	0.3189	0.9646	0.0216	0.3805	0.0223	0.3944
88	29.40	-0.06	0.0915	0.0014	0.0324	0.0156	0.3594	0.9719	0.0213	0.3842	0.0219	0.3953

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	7.085	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.03	-0.0031	0.0014	0.0070	-0.4600	-2.2474	-0.1105	-0.0317	-0.0761	0.2869	0.6892
2	-2.58	0.02	0.0015	0.0021	0.0094	1.4009	-6.2665	-0.0966	-0.0293	-0.0705	0.3033	0.7301
3	-1.99	0.01	0.0015	0.0023	0.0085	1.5009	5.6665	-0.0531	-0.0225	-0.0558	0.4086	1.0120
4	-1.37	0.04	-0.0082	0.0004	0.0075	-0.1098	-0.9107	-0.0245	-0.0160	-0.0376	0.6524	1.5332
5	-0.83	0.02	0.0016	0.0023	0.0085	1.4071	5.3332	0.0056	-0.0103	-0.0232	-1.8360	-4.1489
6	-0.28	0.03	0.0029	0.0026	0.0111	0.8799	3.8160	0.0415	-0.0038	-0.0092	-0.0922	-0.2210
7	0.23	0.02	0.0013	0.0024	0.0097	1.8473	7.4871	0.0703	0.0022	0.0036	0.0310	0.0516
8	0.76	0.03	-0.0017	0.0018	0.0085	-1.0595	-5.0197	0.1066	0.0081	0.0158	0.0761	0.1482
9	1.24	0.02	0.0060	0.0032	0.0119	0.5253	1.9632	0.1375	0.0141	0.0303	0.1027	0.2204
10	1.73	0.01	0.0066	0.0024	0.0097	0.3639	1.4696	0.1759	0.0212	0.0475	0.1208	0.2701
11	2.22	0.01	0.0067	0.0023	0.0091	0.3360	1.3631	0.2060	0.0263	0.0606	0.1276	0.2944
12	2.68	0.0	0.0125	0.0036	0.0142	0.2882	1.1332	0.2439	0.0324	0.0744	0.1330	0.3049
13	3.20	0.02	0.0043	0.0032	0.0133	0.3389	1.4300	0.2771	0.0394	0.0915	0.1423	0.3303
14	3.65	0.01	0.0145	0.0033	0.0130	0.2277	0.8987	0.3141	0.0445	0.1069	0.1418	0.3402
15	4.12	0.0	0.0130	0.0030	0.0119	0.2309	0.9178	0.3645	0.0517	0.1264	0.1417	0.3467
16	4.55	0.0	0.0130	0.0029	0.0120	0.2251	0.9255	0.3955	0.0557	0.1405	0.1409	0.3552
17	5.03	-0.01	0.0128	0.0030	0.0133	0.2345	1.0363	0.4347	0.0589	0.1579	0.1356	0.3631
18	5.45	0.0	0.0141	0.0036	0.0148	0.2555	1.0495	0.4764	0.0618	0.1745	0.1297	0.3664
19	5.92	-0.01	0.0189	0.0043	0.0164	0.2263	0.8676	0.5115	0.0643	0.1867	0.1257	0.3690
20	6.35	0.0	0.0191	0.0038	0.0164	0.2004	0.8568	0.5386	0.0657	0.2005	0.1220	0.3722
21	6.81	-0.01	0.0236	0.0049	0.0189	0.2067	0.7993	0.5685	0.0671	0.2133	0.1161	0.3753
22	7.25	0.0	0.0193	0.0036	0.0152	0.1866	0.7892	0.5841	0.0669	0.2164	0.1145	0.3706
23	7.69	0.0	0.0273	0.0046	0.0185	0.1677	0.6775	0.6050	0.0666	0.2257	0.1101	0.3731
24	8.12	0.0	0.0290	0.0049	0.0174	0.1692	0.5987	0.6282	0.0650	0.2304	0.1034	0.3667
25	8.56	0.0	0.0190	0.0042	0.0164	0.2212	0.8048	0.6442	0.0630	0.2361	0.0978	0.3665
26	8.96	0.0	0.0308	0.0047	0.0169	0.1535	0.5475	0.6550	0.0613	0.2398	0.0937	0.3661
27	9.34	-0.01	0.0240	0.0042	0.0177	0.1751	0.7374	0.6708	0.0598	0.2468	0.0891	0.3680
28	9.78	0.01	0.0304	0.0050	0.0199	0.1654	0.6556	0.6878	0.0587	0.2523	0.0854	0.3668
29	10.15	-0.01	0.0339	0.0051	0.0189	0.1505	0.5574	0.7003	0.0575	0.2586	0.0821	0.3692
30	10.58	-0.01	0.0334	0.0059	0.0208	0.1775	0.6236	0.7180	0.0546	0.2635	0.0763	0.3669
31	10.96	-0.02	0.0289	0.0047	0.0192	0.1636	0.6654	0.7278	0.0530	0.2685	0.0728	0.3690
32	11.36	-0.03	0.0283	0.0056	0.0214	0.1562	0.7572	0.7427	0.0511	0.2720	0.0687	0.3662
33	11.71	-0.02	0.0333	0.0059	0.0230	0.1758	0.6906	0.7506	0.0502	0.2778	0.0668	0.3701
34	12.09	-0.03	0.0252	0.0050	0.0206	0.1995	0.8173	0.7654	0.0490	0.2811	0.0640	0.3672
35	12.43	-0.02	0.0332	0.0058	0.0242	0.1741	0.7278	0.7776	0.0491	0.2883	0.0632	0.3708
36	12.78	-0.03	0.0282	0.0056	0.0224	0.1569	0.7942	0.7938	0.0476	0.2897	0.0624	0.3650
37	13.15	-0.04	0.0346	0.0063	0.0246	0.1822	0.7118	0.7950	0.0490	0.2922	0.0616	0.3676
38	13.49	-0.03	0.0331	0.0059	0.0242	0.1768	0.7320	0.8036	0.0487	0.2936	0.0606	0.3653
39	13.87	-0.05	0.0381	0.0061	0.0254	0.1595	0.6665	0.7623	0.0424	0.2745	0.0557	0.3601
40	14.22	-0.05	0.0347	0.0061	0.0247	0.1752	0.7107	0.7500	0.0395	0.2688	0.0527	0.3584
41	14.60	-0.05	0.0347	0.0066	0.0253	0.1664	0.6380	0.7512	0.0379	0.2689	0.0505	0.3580
42	14.93	-0.05	0.0333	0.0056	0.0243	0.1668	0.7296	0.7529	0.0369	0.2747	0.0491	0.3648
43	15.29	-0.05	0.0395	0.0065	0.0281	0.1634	0.7104	0.7523	0.0361	0.2717	0.0480	0.3611
44	15.62	-0.05	0.0398	0.0062	0.0268	0.1565	0.6724	0.7445	0.0351	0.2708	0.0472	0.3637
45	15.97	-0.05	0.0412	0.0068	0.0278	0.1639	0.6754	0.7391	0.0349	0.2693	0.0472	0.3644
46	16.28	-0.04	0.0397	0.0063	0.0268	0.1588	0.6758	0.7544	0.0342	0.2717	0.0454	0.3601

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	7	0.85	1.7	0.0	B2WUF13	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCFF3	YCFF3	CNF4	CH4	CH4	XCFF4	YCFF4
47	16.62	-0.05	0.0392	0.0068	0.0294	0.1723	0.7490	0.7385	0.0342	0.2702	0.0463	0.3659
48	16.90	-0.06	0.0393	0.0069	0.0284	0.1757	0.7225	0.7266	0.0345	0.2638	0.0475	0.3631
49	17.27	-0.06	0.0394	0.0066	0.0284	0.1676	0.7215	0.7270	0.0345	0.2629	0.0475	0.3616
50	17.62	-0.06	0.0399	0.0079	0.0346	0.1462	0.6412	0.6274	0.0369	0.2243	0.0508	0.3575
51	17.95	-0.07	0.0471	0.0080	0.0333	0.1705	0.7069	0.6544	0.0363	0.2351	0.0554	0.3592
52	18.29	-0.06	0.0538	0.0084	0.0347	0.1562	0.6455	0.6538	0.0357	0.2364	0.0547	0.3646
53	18.62	-0.06	0.0396	0.0065	0.0284	0.1649	0.7171	0.6494	0.0366	0.2327	0.0563	0.3583
54	18.97	-0.06	0.0443	0.0069	0.0318	0.1559	0.7170	0.6544	0.0364	0.2363	0.0557	0.3610
55	19.28	-0.07	0.0445	0.0071	0.0305	0.1585	0.6950	0.6665	0.0362	0.2420	0.0543	0.3631
56	19.60	-0.07	0.0490	0.0074	0.0346	0.1501	0.7067	0.6819	0.0357	0.2482	0.0524	0.3640
57	19.92	-0.08	0.0398	0.0060	0.0294	0.1508	0.7377	0.6975	0.0355	0.2547	0.0509	0.3652
58	20.25	-0.07	0.0345	0.0059	0.0300	0.1697	0.8694	0.7062	0.0352	0.2570	0.0499	0.3640
59	20.59	-0.07	0.0344	0.0065	0.0312	0.1657	0.7926	0.7282	0.0342	0.2655	0.0470	0.3645
60	20.91	-0.08	0.0459	0.0071	0.0336	0.1537	0.7319	0.7316	0.0342	0.2687	0.0468	0.3673
61	21.24	-0.07	0.0458	0.0071	0.0335	0.1540	0.7306	0.7576	0.0331	0.2761	0.0437	0.3670
62	21.55	-0.07	0.0459	0.0068	0.0335	0.1488	0.7297	0.7602	0.0328	0.2817	0.0432	0.3706
63	21.87	-0.06	0.0421	0.0074	0.0342	0.1747	0.8130	0.7869	0.0311	0.2933	0.0395	0.3728
64	22.16	-0.07	0.0441	0.0071	0.0328	0.1617	0.7436	0.7821	0.0316	0.2889	0.0404	0.3694
65	22.48	-0.07	0.0424	0.0071	0.0323	0.1664	0.7625	0.8059	0.0306	0.2980	0.0380	0.3697
66	22.78	-0.08	0.0458	0.0070	0.0338	0.1524	0.7371	0.8189	0.0294	0.3051	0.0359	0.3726
67	23.09	-0.07	0.0547	0.0092	0.0397	0.1688	0.7263	0.8392	0.0285	0.3139	0.0339	0.3741
68	23.40	-0.08	0.0452	0.0080	0.0357	0.1760	0.7490	0.8407	0.0284	0.3188	0.0338	0.3793
69	23.71	-0.07	0.0483	0.0086	0.0362	0.1787	0.7494	0.8734	0.0273	0.3239	0.0313	0.3709
70	24.04	-0.08	0.0426	0.0068	0.0320	0.1603	0.7511	0.8391	0.0285	0.3161	0.0339	0.3767
71	24.33	-0.08	0.0505	0.0081	0.0351	0.1605	0.6956	0.8759	0.0266	0.3283	0.0303	0.3748
72	24.65	-0.07	0.0539	0.0084	0.0360	0.1559	0.6672	0.8866	0.0261	0.3323	0.0294	0.3749
73	24.94	-0.07	0.0489	0.0077	0.0362	0.1565	0.7402	0.8762	0.0265	0.3324	0.0303	0.3793
74	25.23	-0.07	0.0404	0.0074	0.0342	0.1820	0.8456	0.8746	0.0266	0.3316	0.0304	0.3792
75	25.51	-0.09	0.0502	0.0083	0.0373	0.1659	0.7436	0.9033	0.0252	0.3423	0.0279	0.3790
76	25.82	-0.08	0.0535	0.0087	0.0378	0.1627	0.7070	0.9014	0.0250	0.3422	0.0277	0.3796
77	26.10	-0.09	0.0465	0.0083	0.0395	0.1775	0.6493	0.9147	0.0242	0.3478	0.0264	0.3803
78	26.41	-0.09	0.0500	0.0081	0.0404	0.1621	0.8072	0.9254	0.0242	0.3475	0.0261	0.3755
79	26.71	-0.09	0.0466	0.0083	0.0383	0.1788	0.8225	0.9303	0.0238	0.3519	0.0256	0.3783
80	27.00	-0.08	0.0500	0.0083	0.0392	0.1666	0.7832	0.9384	0.0231	0.3566	0.0246	0.3800
81	27.32	-0.07	0.0550	0.0086	0.0407	0.1569	0.7405	0.9281	0.0234	0.3540	0.0252	0.3814
82	27.60	-0.09	0.0495	0.0093	0.0404	0.1880	0.8160	0.9654	0.0216	0.3636	0.0223	0.3766
83	27.92	-0.09	0.0499	0.0088	0.0382	0.1760	0.7661	0.9550	0.0219	0.3628	0.0229	0.3798
84	28.21	-0.09	0.0546	0.0093	0.0417	0.1704	0.7636	0.9634	0.0214	0.3659	0.0222	0.3797
85	28.52	-0.09	0.0626	0.0101	0.0452	0.1606	0.7214	0.9738	0.0205	0.3709	0.0210	0.3809
86	28.82	-0.08	0.0482	0.0083	0.0396	0.1728	0.8208	0.9760	0.0203	0.3710	0.0208	0.3801
87	29.16	-0.08	0.0450	0.0077	0.0385	0.1718	0.8554	0.9780	0.0200	0.3736	0.0204	0.3820
88	29.40	-0.06	0.0645	0.0098	0.0451	0.1513	0.6991	0.9804	0.0194	0.3763	0.0198	0.3838

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	8	0.92	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.78	0.02	-0.3903	0.9524	0.0095	0.0127	-0.0090	0.1925	-2.4400	
2	-2.48	0.02	-0.3456	0.8317	0.0373	-0.0532	-0.0060	0.1895	-2.4069	
3	-1.90	0.03	-0.2536	0.6090	0.0301	0.0089	-0.0110	0.1924	-2.4016	
4	-1.30	0.02	-0.1784	0.3827	-0.0197	-0.0354	-0.0080	0.1946	-2.1455	
5	-0.76	0.02	-0.0955	0.1787	-0.0176	-0.0054	-0.0130	0.2016	-1.8712	
6	-0.21	0.01	0.0021	-0.0179	-0.0360	-0.0376	-0.0140	0.2028	-8.5429	
7	0.29	0.02	0.0609	-0.1942	0.0209	0.0187	-0.0150	0.2053	-3.1898	
8	0.83	0.01	0.1473	-0.3702	-0.0457	0.0050	-0.0090	0.2091	-2.5134	
9	1.31	0.02	0.2306	-0.5868	0.0239	0.0135	-0.0100	0.2078	-2.5448	
10	1.80	0.02	0.3201	-0.7910	0.0310	0.0126	-0.0090	0.2063	-2.4715	
11	2.29	0.01	0.3996	-1.0364	0.0083	0.0664	-0.0080	0.2010	-2.5934	
12	2.76	0.0	0.4756	-1.2528	-0.0381	0.0353	-0.0040	0.2052	-2.6340	
13	3.26	0.01	0.5861	-1.5345	0.0278	0.1171	-0.0040	0.1980	-2.6180	
14	3.71	0.01	0.6576	-1.7526	0.0440	0.0744	-0.0040	0.1995	-2.6650	
15	4.17	0.0	0.7508	-2.0320	0.0612	0.0783	-0.0040	0.1991	-2.7064	
16	4.61	-0.01	0.8509	-2.3061	-0.0434	-0.0022	-0.0010	0.1992	-2.7102	
17	5.09	0.0	0.9731	-2.5881	-0.0106	0.1058	0.0	0.2010	-2.6598	
18	5.51	0.0	1.0523	-2.8840	-0.0110	0.0824	-0.0030	0.2070	-2.7407	
19	5.95	-0.01	1.1416	-3.1230	-0.0737	0.1062	-0.0040	0.2070	-2.7357	
20	6.40	-0.03	1.2519	-3.4665	0.0032	0.0675	-0.0110	0.2100	-2.7689	
21	6.84	-0.02	1.3396	-3.6912	0.0286	0.0715	-0.0080	0.2081	-2.7554	
22	7.29	-0.02	1.4231	-3.9791	0.0028	0.1981	-0.0120	0.2170	-2.7960	
23	7.73	-0.03	1.5254	-4.2563	-0.0250	0.1410	-0.0050	0.2101	-2.7903	
24	8.17	0.0	1.6110	-4.5121	-0.0307	0.1810	-0.0040	0.2138	-2.8008	
25	8.58	-0.02	1.7122	-4.7547	0.0188	0.1787	-0.0110	0.2149	-2.7799	
26	8.98	-0.02	1.7788	-4.9699	0.0496	0.2255	0.0090	0.2150	-2.7940	
27	9.37	-0.02	1.8580	-5.1608	-0.0019	0.1266	0.0120	0.2167	-2.7777	
28	9.79	0.0	1.9012	-5.1683	-0.0124	0.1143	-0.0040	0.2119	-2.7185	
29	10.20	-0.04	1.9575	-5.2842	0.0060	0.1046	-0.0150	0.2110	-2.6994	
30	10.60	-0.01	2.0156	-5.3536	0.0172	0.0939	-0.0220	0.2057	-2.6560	
31	11.00	0.0	2.0639	-5.4952	0.0869	0.2313	-0.0250	0.2067	-2.6625	
32	11.36	-0.05	2.1353	-5.6401	0.0027	0.1132	-0.0340	0.2100	-2.6413	
33	11.73	-0.05	2.2150	-5.7827	-0.0063	0.0498	-0.0390	0.2136	-2.6107	
34	12.10	-0.06	2.2559	-5.8019	-0.0959	0.1062	-0.0320	0.2108	-2.5719	
35	12.45	-0.05	2.3337	-5.9488	-0.0373	0.0722	-0.0300	0.2151	-2.5491	
36	12.81	-0.05	2.3915	-6.0577	-0.0116	0.1082	-0.0380	0.2120	-2.5330	
37	13.16	-0.05	2.4789	-6.2141	-0.0226	0.0766	-0.0320	0.2132	-2.5068	
38	13.53	-0.06	2.5310	-6.3190	-0.0664	0.0509	-0.0360	0.2153	-2.4967	
39	13.87	-0.05	2.6086	-6.4096	-0.0223	0.1412	-0.0350	0.2128	-2.4571	
40	14.23	-0.06	2.6568	-6.4701	-0.0953	0.0314	-0.0460	0.2119	-2.4353	
41	14.59	-0.04	2.7012	-6.5204	0.0256	0.0891	-0.0470	0.2077	-2.4138	
42	14.94	-0.05	2.7673	-6.5705	-0.0237	0.1402	-0.0430	0.2105	-2.3745	
43	15.30	-0.06	2.8241	-6.6244	-0.1133	0.1946	-0.0400	0.2068	-2.3457	
44	15.63	-0.05	2.8613	-6.6895	-0.1150	0.2540	-0.0470	0.2079	-2.3379	
45	15.96	-0.05	2.8702	-6.6000	-0.0962	0.2187	-0.0670	0.2132	-2.2995	
46	16.28	-0.05	2.9555	-6.7434	0.0027	0.0442	-0.0670	0.2060	-2.2816	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	8	0.92	1.7	0.0	82WOF13	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.63	-0.05	3.0348	-6.8434	-0.0119	0.0886	-0.0640	0.1977	-2.2550		
48	16.95	-0.05	3.0185	-6.5966	-0.0109	-0.0197	-0.1070	0.2099	-2.1860		
49	17.30	-0.07	2.9195	-5.9681	0.1342	-0.7068	-0.2020	0.2426	-2.0442		
50	17.63	-0.07	2.9606	-5.9766	0.0589	-0.4724	-0.1820	0.2346	-2.0194		
51	17.97	-0.06	3.0289	-5.9612	0.2140	-0.7115	-0.2060	0.2305	-1.9681		
52	18.30	-0.08	3.0518	-5.9343	0.1662	-0.8346	-0.2060	0.2196	-1.9445		
53	18.65	-0.08	3.0977	-5.9336	0.1095	-0.7082	-0.1970	0.2114	-1.9155		
54	18.97	-0.08	3.1442	-5.9427	0.1648	-0.6676	-0.1860	0.2089	-1.8900		
55	19.30	-0.09	3.1756	-5.8986	0.0654	-0.5375	-0.1670	0.1997	-1.8575		
56	19.63	-0.07	3.2447	-5.8334	0.0842	-0.5828	-0.1480	0.2033	-1.7978		
57	19.98	-0.07	3.2554	-5.7564	0.1141	-0.3887	-0.1430	0.1978	-1.7683		
58	20.30	-0.07	3.3248	-5.8355	0.0455	-0.1127	-0.1120	0.1933	-1.7552		
59	20.64	-0.08	3.3978	-5.9857	-0.0507	-0.1180	-0.1060	0.1856	-1.7617		
60	20.96	-0.08	3.4776	-6.2225	-0.0193	-0.2649	-0.1230	0.1690	-1.7893		
61	21.30	-0.08	3.5370	-6.2177	-0.0115	-0.1753	-0.1020	0.1630	-1.7579		
62	21.60	-0.08	3.5657	-6.2469	0.0122	-0.1521	-0.0970	0.1617	-1.7519		
63	21.91	-0.07	3.6504	-6.4024	0.0902	-0.1373	-0.0890	0.1520	-1.7539		
64	22.21	-0.07	3.7344	-6.5400	0.0125	-0.0285	-0.1150	0.1403	-1.7513		
65	22.51	-0.08	3.7143	-6.3869	-0.0448	0.0087	-0.1110	0.1361	-1.7195		
66	22.84	-0.08	3.8621	-6.6308	0.0127	-0.1368	-0.1080	0.1352	-1.7169		
67	23.15	-0.07	3.9328	-6.6258	0.1187	-0.2791	-0.0920	0.1331	-1.6847		
68	23.47	-0.07	3.9921	-6.6868	0.1129	-0.2110	-0.0660	0.1359	-1.6750		
69	23.78	-0.08	4.0879	-6.7589	0.0335	-0.1299	-0.0890	0.1141	-1.6534		
70	24.12	-0.08	4.2091	-7.0067	0.0114	-0.0710	-0.1070	0.1053	-1.6646		
71	24.42	-0.08	4.1461	-6.6364	0.0135	-0.1069	-0.0840	0.1026	-1.6006		
72	24.75	-0.09	4.1850	-6.6608	-0.0344	-0.0848	-0.0900	0.0849	-1.5916		
73	25.04	-0.09	4.2476	-6.6416	0.0396	-0.2034	-0.0690	0.0808	-1.5636		
74	25.34	-0.08	4.3676	-6.7836	-0.0779	0.2890	-0.1300	0.0642	-1.5532		
75	25.61	-0.10	4.2967	-6.5224	0.0398	-0.3617	-0.0540	0.0610	-1.5180		
76	25.93	-0.08	4.4206	-6.5348	0.0406	-0.1938	-0.0530	0.0564	-1.4783		
77	26.23	-0.09	4.4406	-6.3888	0.0317	-0.2004	-0.0650	0.0402	-1.4387		
78	26.52	-0.08	4.4979	-6.4940	0.0764	-0.1109	-0.0600	0.0348	-1.4438		
79	26.84	-0.08	4.5512	-6.3177	0.0754	-0.1205	-0.0510	0.0212	-1.3881		
80	27.13	-0.09	4.5946	-6.2615	0.0253	-0.0774	-0.0480	0.0135	-1.3628		
81	27.45	-0.10	4.7023	-6.2972	-0.0344	-0.1038	-0.0330	0.0104	-1.3392		
82	27.74	-0.09	4.7757	-6.3400	-0.0023	-0.0408	-0.0410	-0.0001	-1.3276		
83	28.05	-0.08	4.8286	-6.2521	0.0452	-0.0543	-0.0510	-0.0157	-1.2948		
84	28.35	-0.09	4.9463	-6.2628	0.1407	-0.4339	-0.0060	-0.0150	-1.2662		
85	28.67	-0.07	4.9924	-6.1935	0.2333	-0.3786	0.0070	-0.0205	-1.2406		
86	28.97	-0.03	5.1510	-6.5925	0.2690	0.2694	-0.0190	-0.0276	-1.2798		
87	29.35	-0.13	5.3325	-6.0977	-0.1584	-0.2292	-0.0120	0.0023	-1.1435		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	8	0.92	1.7	0.0	82WOF13	0.0	0	0	0	U	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.78	0.02	-0.0241	-0.0041	-0.0082	0.1713	0.3415	-0.1863	-0.0382	-0.0678	0.2051	0.3638
2	-2.48	0.02	-0.0122	-0.0025	-0.007C	0.2030	0.5709	-0.1683	-0.0348	-0.0613	0.2066	0.3641
3	-1.90	0.03	-0.0101	-0.0018	-0.0058	0.1783	0.5708	-0.1279	-0.0259	-0.0429	0.2026	0.3356
4	-1.30	0.02	-0.0091	-0.0008	-0.0050	0.0825	0.5530	-0.0909	-0.0166	-0.0238	0.1825	0.2617
5	-0.76	0.02	-0.0224	-0.0038	-0.0078	0.1709	0.3466	-0.0594	-0.0092	-0.0130	0.1541	0.2187
6	-0.21	0.01	-0.0116	-0.0017	-0.0046	0.1423	0.3936	-0.0172	0.0005	0.0020	-0.0262	-0.1145
7	0.29	0.02	-0.0121	-0.0021	-0.0044	0.1737	0.3663	0.0037	0.0071	0.0139	1.9066	3.7656
8	0.83	0.01	-0.0094	-0.0008	-0.0024	0.0798	0.2587	0.0365	0.0157	0.0261	0.4297	0.7140
9	1.31	0.02	-0.0210	-0.0035	-0.0043	0.1680	0.2046	0.0702	0.0230	0.0417	0.3271	0.5939
10	1.80	0.02	-0.0003	0.0011	-0.0001	-3.5022	0.3332	0.1073	0.0306	0.0563	0.2849	0.5244
11	2.29	0.01	-0.0099	-0.0011	-0.0008	0.1661	0.0807	0.1394	0.0383	0.0722	0.2748	0.5177
12	2.76	0.0	-0.0015	-0.0002	-0.0018	0.1501	1.1999	0.1724	0.0446	0.0854	0.2587	0.4951
13	3.26	0.01	-0.0078	-0.0019	-0.0014	0.2405	0.1794	0.2045	0.0532	0.1013	0.2603	0.4952
14	3.71	0.01	-0.0040	-0.0011	-0.0004	0.2627	0.1082	0.2395	0.0546	0.1121	0.2489	0.4681
15	4.17	0.0	-0.0081	-0.0022	-0.0014	0.2687	0.1727	0.2787	0.0674	0.1320	0.2420	0.4736
16	4.61	-0.01	-0.0064	-0.0020	-0.0011	0.3166	0.1770	0.3135	0.0728	0.1457	0.2323	0.4647
17	5.09	0.0	-0.0139	-0.0036	-0.0025	0.2592	0.1821	0.3507	0.0776	0.1608	0.2214	0.4585
18	5.51	0.0	-0.0133	-0.0031	-0.0027	0.2313	0.2354	0.3905	0.0806	0.1771	0.2065	0.4534
19	5.95	-0.01	-0.0113	-0.0026	-0.0023	0.2258	0.2005	0.4224	0.0827	0.1906	0.1957	0.4512
20	6.40	-0.03	-0.0075	-0.0017	-0.0025	0.2301	0.3332	0.4739	0.0835	0.2133	0.1762	0.4502
21	6.84	-0.02	-0.0109	-0.0025	-0.0046	0.2272	0.4250	0.4972	0.0845	0.2251	0.1699	0.4528
22	7.29	-0.02	-0.0188	-0.0031	-0.0061	0.1637	0.3226	0.5398	0.0848	0.2441	0.1570	0.4522
23	7.73	-0.03	-0.0183	-0.0025	-0.0050	0.1353	0.2731	0.5756	0.0658	0.2567	0.1490	0.4493
24	8.17	0.0	-0.0083	-0.0011	-0.0017	0.1266	0.2007	0.6080	0.0854	0.2708	0.1404	0.4454
25	8.58	-0.02	-0.0232	-0.0032	-0.0073	0.1391	0.3160	0.6414	0.0860	0.2861	0.1541	0.4462
26	8.98	-0.02	-0.0119	-0.0020	-0.0045	0.1703	0.3752	0.6535	0.0835	0.2824	0.1278	0.4321
27	9.37	-0.02	-0.0169	-0.0028	-0.0066	0.1643	0.3924	0.6728	0.0830	0.2922	0.1233	0.4343
28	9.79	0.0	-0.0173	-0.0033	-0.0080	0.1909	0.4604	0.6876	0.0824	0.2944	0.1198	0.4282
29	10.20	-0.04	-0.0268	-0.0041	-0.0086	0.1512	0.3220	0.7046	0.0632	0.3013	0.1138	0.4276
30	10.60	-0.01	-0.0206	-0.0048	-0.0057	0.2332	0.2750	0.7226	0.0780	0.3033	0.1080	0.4198
31	11.00	0.0	-0.0196	-0.0053	-0.0067	0.2719	0.3434	0.7394	0.0759	0.3115	0.1027	0.4213
32	11.36	-0.05	-0.0202	-0.0058	-0.0058	0.2861	0.2887	0.7613	0.0719	0.3177	0.0945	0.4173
33	11.73	-0.05	-0.0103	-0.0065	-0.0077	0.6266	0.7507	0.7827	0.0686	0.3259	0.0677	0.4163
34	12.10	-0.06	-0.0148	-0.0062	-0.0049	0.4209	0.3332	0.7869	0.0656	0.3264	0.0832	0.4137
35	12.45	-0.05	-0.0224	-0.0063	-0.0041	0.2814	0.1814	0.7977	0.0608	0.3302	0.0762	0.4139
36	12.81	-0.05	-0.0226	-0.0070	-0.0077	0.3086	0.3421	0.8124	0.0584	0.3336	0.0719	0.4106
37	13.16	-0.05	-0.0272	-0.0068	-0.0106	0.3228	0.3884	0.8341	0.0551	0.3412	0.0661	0.4090
38	13.53	-0.06	-0.0316	-0.0088	-0.0101	0.2779	0.3206	0.8452	0.0525	0.3479	0.0621	0.4116
39	13.87	-0.05	-0.0197	-0.0095	-0.0053	0.4800	0.2672	0.8571	0.0488	0.3511	0.0569	0.4097
40	14.23	-0.06	-0.0421	-0.0105	-0.0114	0.2496	0.2715	0.8665	0.0446	0.3515	0.0517	0.4056
41	14.59	-0.04	-0.0328	-0.0107	-0.0052	0.3272	0.1594	0.8762	0.0423	0.3552	0.0481	0.4044
42	14.94	-0.05	-0.0497	-0.0112	-0.0154	0.2250	0.3091	0.8797	0.0355	0.3508	0.0404	0.3987
43	15.30	-0.06	-0.0490	-0.0115	-0.0120	0.2343	0.2455	0.8826	0.0343	0.3521	0.0389	0.3990
44	15.63	-0.05	-0.0543	-0.0138	-0.0125	0.2543	0.2301	0.8943	0.0318	0.3556	0.0356	0.3977
45	15.96	-0.05	-0.0434	-0.0129	-0.0098	0.2974	0.2249	0.9014	0.0308	0.3584	0.0342	0.3976
46	16.28	-0.05	-0.0507	-0.0131	-0.0115	0.2576	0.2267	0.9099	0.0291	0.3626	0.0320	0.3985

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	8.0	0.92	1.7	0.0	0.2	WOF13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.63	-0.05	-0.0655	-0.0110	-0.0287	0.1673	0.4386	0.9075	0.0291	0.3594	0.0321	0.3961
48	16.95	-0.05	-0.0424	-0.0140	-0.0145	0.3292	0.3521	0.9273	0.0274	0.3672	0.0296	0.3960
49	17.30	-0.07	0.0031	-0.0146	0.0041	-4.7207	1.3332	0.9595	0.0245	0.3830	0.0255	0.3991
50	17.63	-0.07	0.0237	-0.0199	0.0262	-0.8391	1.1054	0.9754	0.0246	0.3920	0.0252	0.4018
51	18.97	-0.06	0.0188	-0.0157	0.0098	-0.8343	0.5194	0.9822	0.0226	0.3920	0.0230	0.3991
52	18.30	-0.08	0.0133	-0.0170	0.0075	-1.2009	0.5663	0.9765	0.0222	0.3894	0.0227	0.3993
53	18.65	-0.08	-0.0043	-0.0176	0.0038	4.1014	-0.8761	0.9658	0.0221	0.3871	0.0229	0.4008
54	18.97	-0.08	0.0074	-0.0176	0.0040	-2.3731	0.5359	0.9594	0.0225	0.3808	0.0234	0.3969
55	19.30	-0.09	0.0060	-0.0193	0.0119	-3.2145	1.9832	0.9521	0.0219	0.3792	0.0230	0.3983
56	19.63	-0.07	-0.0006	-0.0200	0.0023	33.2707	-3.8335	0.9254	0.0233	0.3660	0.0252	0.3955
57	19.98	-0.07	-0.0240	-0.0162	-0.0164	0.6754	0.6832	0.9577	0.0266	0.3408	0.0303	0.3683
58	20.30	-0.07	-0.0269	-0.0136	-0.0186	0.5050	0.6901	0.9716	0.0264	0.3409	0.0302	0.3912
59	20.64	-0.08	-0.0255	-0.0165	-0.0075	0.6475	0.2940	0.8794	0.0255	0.3465	0.0290	0.3940
60	20.96	-0.08	-0.0302	-0.0200	-0.0107	0.6610	0.3531	0.9172	0.0237	0.3653	0.0259	0.3982
61	21.30	-0.08	-0.0368	-0.0169	-0.0154	0.4588	0.4175	0.8887	0.0246	0.3502	0.0277	0.3940
62	21.60	-0.08	-0.0379	-0.0179	-0.0152	0.4713	0.4018	0.9014	0.0243	0.3556	0.0270	0.3945
63	21.91	-0.07	-0.0377	-0.0163	-0.0157	0.4320	0.4154	0.9119	0.0241	0.3609	0.0264	0.3958
64	22.21	-0.07	-0.0391	-0.0166	-0.0188	0.4242	0.4816	0.9363	0.0229	0.3672	0.0245	0.3922
65	22.51	-0.08	-0.0539	-0.0207	-0.0185	0.3843	0.3425	0.9239	0.0234	0.3617	0.0253	0.3915
66	22.84	-0.08	-0.0386	-0.0113	-0.0272	0.2936	0.7037	0.9450	0.0219	0.3729	0.0231	0.3946
67	23.15	-0.07	-0.0146	0.0002	-0.0313	-0.0107	2.2332	0.9285	0.0227	0.3622	0.0244	0.3901
68	23.47	-0.07	-0.0084	-0.0027	-0.0280	0.3216	3.3332	0.9396	0.0217	0.3692	0.0231	0.3930
69	23.78	-0.08	-0.0228	-0.0111	-0.0195	0.4871	0.8551	0.9739	0.0206	0.3809	0.0211	0.3911
70	24.12	-0.08	-0.0234	-0.0116	-0.0188	0.4971	0.8033	0.9961	0.0194	0.3877	0.0194	0.3892
71	24.42	-0.08	0.0202	0.0008	-0.0127	0.0372	-0.6272	0.9576	0.0204	0.3717	0.0213	0.3882
72	24.75	-0.09	-0.0466	-0.0184	-0.0217	0.3946	0.4663	0.9909	0.0188	0.3909	0.0190	0.3945
73	25.04	-0.09	-0.0063	-0.0092	-0.0156	1.4533	2.4761	0.9728	0.0173	0.3812	0.0198	0.3918
74	25.34	-0.08	-0.0858	-0.0326	-0.0296	0.3756	0.3649	1.0313	0.0162	0.4073	0.0157	0.3949
75	25.61	-0.10	0.0511	-0.0026	0.0057	-0.0514	0.1121	0.9774	0.0185	0.3813	0.0190	0.3901
76	25.93	-0.08	0.0227	-0.0055	-0.0020	-0.2413	-0.0897	0.9929	0.0175	0.3867	0.0176	0.3844
77	26.23	-0.09	0.0135	-0.0119	-0.0056	-0.8783	-0.4149	0.9845	0.0179	0.3849	0.0182	0.3909
78	26.52	-0.08	0.0307	-0.0059	0.0020	-0.1907	0.0661	0.9878	0.0179	0.3839	0.0182	0.3886
79	26.84	-0.08	0.0434	-0.0074	0.0062	-0.1712	0.1420	0.9844	0.0181	0.3842	0.0184	0.3902
80	27.13	-0.09	0.0077	-0.0122	-0.0093	-1.5886	-1.2122	0.9868	0.0177	0.3852	0.0180	0.3903
81	27.45	-0.10	0.0893	0.0035	0.0362	0.0387	0.4049	0.9960	0.0174	0.3859	0.0175	0.3875
82	27.74	-0.09	0.0494	-0.0044	0.0081	-0.0896	0.1632	0.9969	0.0166	0.3900	0.0166	0.3912
83	28.05	-0.08	0.0142	-0.0080	-0.0008	-0.5602	-0.0541	1.0020	0.0170	0.3878	0.0170	0.3870
84	28.35	-0.09	0.0657	-0.0014	0.0118	-0.0206	0.1795	1.0079	0.0163	0.3928	0.0162	0.3897
85	28.67	-0.07	0.1341	0.0090	0.0498	0.0672	0.3713	1.0041	0.0164	0.3885	0.0163	0.3869
86	28.97	-0.03	0.0750	-0.0014	0.0204	-0.0180	0.2719	1.0198	0.0152	0.3972	0.0149	0.3895
87	29.35	-0.13	0.0412	-0.0026	0.0173	-0.0619	0.4206	1.0358	0.0144	0.4036	0.0139	0.3896

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.92	1.7	0.0	0.20	0.0	0	0	0	0	Fixed		
PGANT	ALPHA	BFTA	CNF3	CH3	CU3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.78	0.02	0.0043	0.0032	0.0054	0.7330	1.2034	-0.1651	-0.0396	-0.0639	0.2397	0.3872
2	-2.48	0.02	0.0078	0.0025	0.0039	0.3175	0.4999	-0.1486	-0.0360	-0.0566	0.2426	0.3810
3	-1.90	0.03	0.0085	0.0038	0.0065	0.4503	0.7685	-0.1104	-0.0284	-0.0396	0.2572	0.3586
4	-1.30	0.02	0.0086	0.0038	0.0065	0.4363	0.7518	-0.0687	-0.0231	-0.0224	0.2928	0.3259
5	-0.76	0.02	0.0163	0.0038	0.0064	0.2302	0.4252	-0.0364	-0.0116	-0.0073	0.3237	0.2013
6	-0.21	0.01	0.0203	0.0050	0.0082	0.2477	0.4022	-0.0039	-0.0031	0.0055	0.7890	-1.4104
7	0.29	0.02	0.0208	0.0039	0.0066	0.1876	0.3861	0.0226	0.0051	0.0169	0.2298	0.7441
8	0.83	0.01	0.0163	0.0036	0.0069	0.2210	0.4252	0.0554	0.0131	0.0303	0.2357	0.5462
9	1.31	0.02	0.0222	0.0041	0.0076	0.1859	0.3422	0.0938	0.0204	0.0481	0.2179	0.5136
10	1.80	0.02	0.0140	0.0047	0.0102	0.3323	0.7261	0.1241	0.0253	0.0595	0.2040	0.4792
11	2.29	0.01	0.0218	0.0047	0.0096	0.2134	0.4387	0.1697	0.0341	0.0775	0.2009	0.4564
12	2.76	0.0	0.0131	0.0036	0.0079	0.2750	0.6004	0.1954	0.0390	0.0895	0.1994	0.4582
13	3.20	0.01	0.0172	0.0042	0.0108	0.2443	0.6297	0.2346	0.0478	0.1091	0.2035	0.4650
14	3.71	0.01	0.0217	0.0047	0.0103	0.2144	0.4761	0.2698	0.0531	0.1222	0.1967	0.4530
15	4.17	0.0	0.0276	0.0052	0.0113	0.1876	0.4093	0.3137	0.0595	0.1387	0.1898	0.4423
16	4.61	-0.01	0.0232	0.0048	0.0104	0.2070	0.4496	0.3546	0.0662	0.1567	0.1868	0.4418
17	5.09	0.0	0.0219	0.0042	0.0103	0.1919	0.4702	0.3981	0.0704	0.1737	0.1769	0.4363
18	5.51	0.0	0.0289	0.0052	0.0124	0.1792	0.4301	0.4305	0.0729	0.1902	0.1670	0.4357
19	5.95	-0.01	0.0317	0.0053	0.0146	0.1657	0.4594	0.4650	0.0737	0.2051	0.1584	0.4410
20	6.40	-0.03	0.0343	0.0064	0.0155	0.1860	0.4527	0.5050	0.0755	0.2227	0.1496	0.4410
21	6.84	-0.02	0.0300	0.0057	0.0147	0.1901	0.4899	0.5382	0.0766	0.2374	0.1423	0.4410
22	7.29	-0.02	0.0314	0.0058	0.0156	0.1846	0.4956	0.5793	0.0766	0.2578	0.1322	0.4450
23	7.73	-0.03	0.0270	0.0053	0.0150	0.1946	0.5554	0.6169	0.0779	0.2743	0.1263	0.4446
24	8.17	0.0	0.0308	0.0064	0.0183	0.2071	0.5930	0.6478	0.0784	0.2914	0.1210	0.4498
25	8.58	-0.02	0.0314	0.0053	0.0164	0.1673	0.5211	0.6765	0.0779	0.3060	0.1152	0.4523
26	8.98	-0.02	0.0282	0.0052	0.0175	0.1836	0.6204	0.7219	0.0782	0.3235	0.1083	0.4481
27	9.37	-0.02	0.0350	0.0065	0.0213	0.1844	0.6075	0.7473	0.0773	0.3373	0.1035	0.4513
28	9.79	0.0	0.0355	0.0057	0.0193	0.1607	0.5445	0.7320	0.0769	0.3189	0.1050	0.4356
29	10.20	-0.04	0.0355	0.0056	0.0196	0.1564	0.5529	0.7441	0.0745	0.3209	0.1001	0.4312
30	10.63	-0.01	0.0408	0.0066	0.0233	0.1614	0.5710	0.7505	0.0705	0.3181	0.0939	0.4239
31	11.00	0.0	0.0352	0.0056	0.0220	0.1578	0.6258	0.7712	0.0674	0.3244	0.0873	0.4207
32	11.36	-0.05	0.0353	0.0055	0.0221	0.1552	0.6250	0.7701	0.0619	0.3250	0.0804	0.4220
33	11.73	-0.05	0.0397	0.0057	0.0233	0.1437	0.5876	0.7801	0.0508	0.3263	0.0729	0.4182
34	12.10	-0.06	0.0413	0.0056	0.0232	0.1345	0.5608	0.7924	0.0529	0.3312	0.0667	0.4179
35	12.45	-0.05	0.0393	0.0060	0.0253	0.1528	0.6436	0.8140	0.0510	0.3393	0.0626	0.4168
36	12.81	-0.05	0.0453	0.0064	0.0254	0.1408	0.5606	0.8260	0.0485	0.3446	0.0587	0.4172
37	13.16	-0.05	0.0454	0.0061	0.0254	0.1339	0.5601	0.8496	0.0472	0.3532	0.0555	0.4158
38	13.53	-0.06	0.0454	0.0060	0.0262	0.1322	0.5777	0.8614	0.0447	0.3586	0.0519	0.4163
39	13.87	-0.05	0.0379	0.0056	0.0254	0.1465	0.6709	0.8660	0.0431	0.3588	0.0497	0.4133
40	14.23	-0.06	0.0434	0.0066	0.0276	0.1522	0.6351	0.8657	0.0402	0.3601	0.0465	0.4160
41	14.59	-0.04	0.0437	0.0062	0.0267	0.1425	0.6101	0.8748	0.0381	0.3613	0.0435	0.4130
42	14.94	-0.05	0.0481	0.0067	0.0272	0.1389	0.5661	0.8906	0.0364	0.3651	0.0409	0.4099
43	15.30	-0.06	0.0439	0.0059	0.0263	0.1333	0.5997	0.8929	0.0355	0.3659	0.0398	0.4097
44	15.63	-0.05	0.0435	0.0065	0.0275	0.1501	0.6321	0.8990	0.0354	0.3667	0.0393	0.4079
45	15.96	-0.05	0.0440	0.0056	0.0264	0.1262	0.5991	0.8850	0.0327	0.3532	0.0370	0.3991
46	16.28	-0.05	0.0450	0.0065	0.0281	0.1434	0.6243	0.8651	0.0312	0.3520	0.0360	0.4069

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	8	0.92	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	16.63	-0.05	0.0416	0.0068	0.0293	0.1624	0.7034	0.9216	0.0308	0.3742	0.0334	0.4061
48	16.95	-0.05	0.0476	0.0070	0.0306	0.1466	0.6420	0.8532	0.0299	0.3418	0.0350	0.4006
49	17.30	-0.07	0.0575	0.0083	0.0340	0.1436	0.5906	0.6716	0.0321	0.2707	0.0479	0.4031
50	17.63	-0.07	0.0481	0.0062	0.0295	0.1279	0.6222	0.6628	0.0319	0.2725	0.0467	0.3992
51	17.97	-0.06	0.0563	0.0077	0.0334	0.1373	0.5925	0.6585	0.0321	0.2665	0.0487	0.4048
52	18.30	-0.08	0.0544	0.0080	0.0359	0.1462	0.6604	0.6598	0.0318	0.2673	0.0483	0.4051
53	18.65	-0.08	0.0516	0.0076	0.0350	0.1469	0.6782	0.6744	0.0311	0.2751	0.0458	0.4055
54	18.97	-0.08	0.0501	0.0076	0.0349	0.1513	0.6965	0.6873	0.0306	0.2777	0.0446	0.4041
55	19.30	-0.09	0.0458	0.0071	0.0338	0.1557	0.7371	0.6931	0.0303	0.2821	0.0437	0.4070
56	19.63	-0.07	0.0453	0.0079	0.0355	0.1739	0.7835	0.7057	0.0294	0.2897	0.0417	0.4105
57	19.98	-0.07	0.0559	0.0084	0.0376	0.1504	0.6731	0.7255	0.0284	0.2958	0.0391	0.4077
58	20.30	-0.07	0.0412	0.0075	0.0338	0.1822	0.8211	0.7478	0.0274	0.3074	0.0366	0.4111
59	20.64	-0.08	0.0402	0.0070	0.0314	0.1736	0.7810	0.7824	0.0266	0.3160	0.0340	0.4039
60	20.96	-0.08	0.0485	0.0080	0.0370	0.1640	0.7621	0.7727	0.0268	0.3151	0.0347	0.4078
61	21.30	-0.08	0.0473	0.0080	0.0347	0.1682	0.7328	0.7974	0.0257	0.3259	0.0322	0.4086
62	21.60	-0.08	0.0487	0.0081	0.0355	0.1664	0.7377	0.7980	0.0252	0.3301	0.0315	0.4136
63	21.91	-0.07	0.0426	0.0081	0.0353	0.1903	0.8285	0.8227	0.0242	0.3402	0.0294	0.4135
64	22.21	-0.07	0.0476	0.0077	0.0348	0.1608	0.7303	0.8389	0.0237	0.3419	0.0283	0.4075
65	22.51	-0.08	0.0487	0.0081	0.0362	0.1664	0.7439	0.8318	0.0238	0.3401	0.0286	0.4089
66	22.84	-0.08	0.0588	0.0094	0.0405	0.1595	0.6887	0.8077	0.0223	0.3549	0.0257	0.4090
67	23.15	-0.07	0.0526	0.0094	0.0385	0.1783	0.7325	0.9057	0.0206	0.3659	0.0228	0.4040
68	23.47	-0.07	0.0481	0.0091	0.0381	0.1888	0.7927	0.9127	0.0197	0.3725	0.0216	0.4081
69	23.78	-0.08	0.0469	0.0084	0.0374	0.1792	0.7980	0.9092	0.0200	0.3724	0.0220	0.4096
70	24.12	-0.08	0.0526	0.0086	0.0402	0.1641	0.7648	0.9157	0.0191	0.3722	0.0209	0.4064
71	24.42	-0.08	0.0494	0.0089	0.0396	0.1793	0.8008	0.9307	0.0185	0.3758	0.0198	0.4037
72	24.75	-0.09	0.0497	0.0086	0.0384	0.1721	0.7718	0.8975	0.0199	0.3688	0.0222	0.4109
73	25.04	-0.09	0.0484	0.0081	0.0372	0.1675	0.7692	0.9200	0.0186	0.3754	0.0205	0.4080
74	25.34	-0.08	0.0400	0.0070	0.0341	0.1745	0.8532	0.9016	0.0195	0.3693	0.0217	0.4096
75	25.61	-0.10	0.0540	0.0089	0.0407	0.1654	0.7536	0.9104	0.0187	0.3765	0.0204	0.4108
76	25.93	-0.08	0.0480	0.0087	0.0400	0.1814	0.8332	0.9367	0.0176	0.3842	0.0188	0.4101
77	26.23	-0.09	0.0484	0.0083	0.0384	0.1706	0.7940	0.9145	0.0184	0.3751	0.0201	0.4101
78	26.52	-0.08	0.0458	0.0078	0.0364	0.1704	0.7939	0.9338	0.0176	0.3836	0.0189	0.4108
79	26.84	-0.08	0.0515	0.0084	0.0408	0.1632	0.7915	0.9300	0.0179	0.3833	0.0193	0.4122
80	27.13	-0.09	0.0471	0.0085	0.0386	0.1800	0.8194	0.9400	0.0174	0.3835	0.0185	0.4079
81	27.45	-0.10	0.0515	0.0086	0.0408	0.1676	0.7915	0.9519	0.0167	0.3911	0.0175	0.4109
82	27.74	-0.09	0.0472	0.0086	0.0378	0.1813	0.8014	0.9515	0.0164	0.3916	0.0172	0.4116
83	28.05	-0.08	0.0519	0.0086	0.0385	0.1663	0.7417	0.9543	0.0163	0.3937	0.0171	0.4126
84	28.35	-0.09	0.0532	0.0090	0.0395	0.1693	0.7505	0.9622	0.0157	0.3967	0.0163	0.4122
85	28.67	-0.07	0.0565	0.0092	0.0396	0.1620	0.7014	0.9850	0.0149	0.4045	0.0151	0.4106
86	28.97	-0.03	0.0595	0.0084	0.0428	0.1413	0.7198	1.0008	0.0131	0.4133	0.0131	0.4130
87	29.35	-0.13	0.0558	0.0097	0.0438	0.1735	0.7848	1.0053	0.0128	0.4154	0.0128	0.4132

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	9	0.97	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.77	-0.02	-0.4824	1.2793	0.0006	0.0811	-0.0220	0.2345	-2.6518	
2	-2.44	-0.05	-0.4217	1.1364	-0.0553	0.0944	-0.0250	0.2334	-2.6945	
3	-1.91	0.0	-0.3396	0.8353	-0.0620	0.0838	-0.0210	0.2429	-2.4601	
4	-1.29	-0.03	-0.1964	0.5389	-0.0399	0.1188	-0.0170	0.2400	-2.7442	
5	-0.73	-0.02	-0.0907	0.2689	0.0556	0.0132	-0.0200	0.2454	-2.9656	
6	-0.22	-0.03	-0.0069	-0.0943	0.0165	0.0639	-0.0210	0.2479	0.6290	
7	0.32	-0.06	0.0904	-0.2855	-0.0640	0.0636	-0.0180	0.2515	-3.1588	
8	0.83	-0.02	0.1882	-0.5164	0.0037	-0.0542	-0.0220	0.2521	-2.7443	
9	1.32	-0.04	0.2738	-0.8072	-0.0515	-0.0249	-0.0150	0.2516	-2.9486	
10	1.82	0.02	0.3600	-1.0179	0.1541	0.0203	-0.0180	0.2506	-2.8278	
11	2.31	-0.07	0.4611	-1.3145	-0.0659	0.0123	-0.0130	0.2522	-2.8506	
12	2.77	-0.06	0.5398	-1.5977	-0.0648	0.0807	-0.0130	0.2536	-2.9595	
13	3.26	-0.02	0.6780	-1.8881	0.0218	0.1435	-0.0150	0.2581	-2.7847	
14	3.71	-0.01	0.7305	-2.1016	-0.0162	0.0667	-0.0130	0.2573	-2.8769	
15	4.18	-0.04	0.8533	-2.5044	-0.0848	0.1867	-0.0190	0.2487	-2.9350	
16	4.61	-0.06	0.9403	-2.7622	0.0239	0.1315	-0.0180	0.2452	-2.9376	
17	5.08	-0.03	1.0536	-3.0738	0.0746	0.1195	-0.0150	0.2663	-2.9175	
18	5.51	-0.07	1.1707	-3.3798	-0.1061	0.1375	-0.0140	0.2686	-2.8669	
19	5.94	-0.05	1.2170	-3.5736	-0.1965	0.2251	-0.0110	0.2524	-2.9363	
20	6.40	-0.01	1.3608	-3.9109	-0.1216	0.2852	-0.0180	0.2551	-2.8739	
21	6.85	-0.06	1.4877	-4.1685	0.1848	-0.0907	-0.0140	0.2705	-2.8020	
22	7.29	-0.09	1.4774	-4.3751	-0.0048	0.1447	-0.0160	0.2562	-2.9613	
23	7.73	-0.01	1.6725	-4.7222	0.1414	-0.0240	-0.0100	0.2744	-2.8234	
24	8.16	-0.04	1.6888	-4.9320	-0.1306	0.2678	-0.0120	0.2633	-2.9204	
25	8.59	0.04	1.8479	-5.1747	0.0580	0.1798	-0.0140	0.2761	-2.8004	
26	9.00	-0.05	1.8935	-5.3735	0.1055	0.1683	-0.0150	0.2699	-2.8379	
27	9.38	-0.05	1.9219	-5.4914	-0.1731	0.2383	-0.0060	0.2479	-2.8572	
28	9.81	-0.09	2.0527	-5.7684	-0.1593	0.2660	-0.0160	0.2637	-2.8101	
29	10.21	-0.03	2.1244	-5.8598	0.0546	0.1685	-0.0150	0.2590	-2.7583	
30	10.61	-0.02	2.2001	-6.0808	0.0104	0.2134	-0.0190	0.2562	-2.7638	
31	10.99	-0.05	2.2656	-6.2454	-0.0236	0.0430	-0.0190	0.2591	-2.7787	
32	11.38	-0.07	2.3648	-6.4393	-0.1576	0.1356	-0.0160	0.2554	-2.7230	
33	11.72	-0.08	2.4187	-6.6347	-0.1831	0.3693	-0.0190	0.2564	-2.7431	
34	12.08	-0.06	2.5003	-6.7989	-0.0741	0.0377	-0.0220	0.2532	-2.7193	
35	12.46	-0.03	2.5987	-6.9627	0.0805	0.2103	-0.0230	0.2464	-2.6793	
36	12.79	-0.05	2.6658	-7.1480	-0.0350	0.1390	-0.0200	0.2482	-2.6816	
37	13.16	-0.03	2.7565	-7.3177	-0.0450	0.1280	-0.0210	0.2438	-2.6547	
38	13.52	-0.06	2.8143	-7.4566	-0.0297	0.1826	-0.0250	0.2359	-2.6495	
39	13.89	-0.03	2.8902	-7.6318	-0.0263	0.1348	-0.0160	0.2332	-2.6406	
40	14.23	-0.03	2.9778	-7.7575	-0.0227	0.3577	-0.0160	0.2309	-2.6051	
41	14.61	-0.06	3.0348	-7.7223	-0.0588	0.1833	-0.0240	0.2247	-2.5446	
42	14.93	-0.07	3.0920	-7.8943	-0.1368	0.4025	-0.0270	0.2262	-2.5531	
43	15.30	-0.05	3.1179	-7.8736	-0.1208	0.3001	-0.0230	0.2214	-2.5253	
44	15.62	-0.06	3.2102	-7.9488	-0.0527	0.2827	-0.0250	0.2163	-2.4761	
45	15.96	-0.05	3.2206	-7.9074	-0.0372	0.1541	-0.0310	0.2155	-2.4553	
46	16.29	-0.06	3.2893	-7.8416	-0.0588	0.4273	-0.0570	0.2106	-2.3840	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	9	0.97	1.7	U.0	B2WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAP	XCP	
47	16.63	-0.04	3.3254	-7.9981	-0.1321	0.2929	-0.0590	0.2113	-2.4052	
48	16.94	-0.07	3.3824	-8.0569	-0.0313	0.1728	-0.0740	0.2015	-2.5020	
49	20.62	-0.08	4.1717	-8.6439	-0.0650	0.0790	-0.1160	0.1731	-2.0721	
50	20.96	-0.08	4.1815	-8.6367	-0.2336	0.3500	-0.1370	0.1783	-2.0655	
51	21.25	-0.07	4.1301	-8.4247	-0.0420	0.1078	-0.1570	0.1777	-2.0399	
52	21.60	-0.07	4.1362	-8.1233	-0.0286	-0.2075	-0.2430	0.1951	-1.9640	
53	21.91	-0.07	4.3163	-8.5275	-0.0654	0.1815	-0.1680	0.1691	-1.9756	
54	22.24	-0.10	4.2127	-7.8976	0.0495	-0.3013	-0.2950	0.1914	-1.8747	
55	22.56	-0.06	4.1898	-7.7254	0.0665	-0.3006	-0.2690	0.1701	-1.8439	
56	22.83	-0.10	4.3364	-8.0168	-0.0139	-0.2585	-0.1530	0.1324	-1.8487	
57	23.20	-0.09	4.4453	-7.8912	0.0718	-0.3305	-0.2400	0.1492	-1.7752	
58	23.51	-0.08	4.4336	-7.7095	0.1917	-0.7583	-0.2210	0.1349	-1.7390	
59	23.83	-0.08	4.5885	-7.9497	0.1808	-0.4681	-0.1500	0.1210	-1.7325	
60	24.18	-0.10	4.5221	-7.6388	0.1785	-0.6878	-0.2210	0.1223	-1.6892	
61	24.48	-0.11	4.7328	-7.7867	0.2450	-0.5319	-0.1580	0.1060	-1.6453	
62	24.82	-0.10	4.7267	-7.4982	0.1471	-0.6749	-0.1100	0.0959	-1.5864	
63	25.12	-0.11	4.7819	-7.5585	0.0983	-0.4076	-0.0620	0.0981	-1.5807	
64	25.43	-0.06	5.0192	-7.5049	0.1929	-0.2040	-0.2650	0.0861	-1.4952	
65	25.73	-0.11	4.9097	-7.3735	0.1869	-0.5836	-0.1950	0.0814	-1.5018	
66	26.05	-0.07	5.0151	-6.9172	0.2553	-0.5683	-0.0480	0.0846	-1.3793	
67	26.33	-0.15	5.2852	-7.3683	0.2894	-0.7551	-0.1600	0.0592	-1.3941	
68	26.67	-0.05	5.2340	-6.9667	0.2580	-0.5491	-0.1460	0.0553	-1.3310	
69	26.95	-0.11	5.2907	-7.1260	0.0966	-0.4715	-0.2030	0.0538	-1.3469	
70	27.31	-0.10	5.3464	-6.4951	0.1728	-0.4189	-0.0840	0.0528	-1.2149	
71	27.60	-0.09	5.4893	-6.0151	0.1477	-0.4557	-0.1150	0.0481	-1.2051	
72	27.95	-0.06	5.6277	-6.3729	0.2087	-0.2951	-0.0690	0.0525	-1.1324	
73	28.25	-0.10	5.6871	-6.4251	0.2081	-0.4323	-0.0540	0.0374	-1.1498	
74	28.54	-0.06	5.7026	-6.2738	0.3063	-0.4958	-0.0470	0.0317	-1.1002	
75	28.88	-0.07	5.8409	-6.0736	0.2602	-0.4892	-0.0260	0.0247	-1.0398	
76	29.20	-0.06	6.0393	-6.2473	0.2643	-0.3140	-0.0580	0.0151	-1.0344	
77	29.53	-0.08	6.2031	-6.5856	0.1522	-0.5090	-0.1540	-0.0028	-1.0617	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		9		0.97		1.7	0.0	B2W0F13	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF1	CHI	GB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	-2.77	-0.02	-0.0150	-0.0008	-0.0189	0.0550	1.2599	-0.1892	-0.0288	-0.0863	0.1524	0.4559	
2	-2.44	-0.05	-0.0031	-0.0017	-0.0105	0.5568	-3.5055	-0.1621	-0.0239	-0.0719	0.1473	0.4437	
3	-1.91	0.0	-0.0161	-0.0003	-0.0165	0.0180	1.0227	-0.1281	-0.0188	-0.0577	0.1472	0.4504	
4	-1.29	-0.03	-0.0073	-0.0007	-0.0128	-0.0525	1.7579	-0.0860	-0.0117	-0.0378	0.1361	0.4390	
5	-0.73	-0.02	-0.0044	0.0011	-0.0111	-0.2388	2.5150	-0.0447	-0.0058	-0.0203	0.1293	0.4540	
6	-0.22	-0.03	-0.0044	0.0011	-0.0112	-0.2388	2.5378	-0.0078	-0.0004	-0.0022	0.0481	0.2819	
7	0.32	-0.06	-0.0060	0.0008	-0.0116	-0.1251	1.9332	0.0354	0.0057	0.0141	0.1611	0.3982	
8	0.83	-0.02	0.0090	0.0025	-0.0078	0.2752	-0.8668	0.0703	0.0113	0.0316	0.1612	0.4499	
9	1.32	-0.04	-0.0066	0.0001	-0.0125	-0.0114	1.9544	0.1050	0.0158	0.0445	0.1502	0.4238	
10	1.82	-0.02	0.0021	0.0011	-0.0076	0.5360	-3.6192	0.1393	0.0220	0.0626	0.1560	0.4496	
11	2.31	-0.07	-0.0063	0.0007	-0.0099	-0.1072	1.5713	0.1764	0.0275	0.0765	0.1558	0.4336	
12	2.77	-0.06	0.0065	0.0015	-0.0065	0.2309	-1.0052	0.2210	0.0342	0.0965	0.1549	0.4364	
13	3.26	-0.02	0.0074	0.0011	-0.0066	0.1420	-0.8965	0.2671	0.0403	0.1151	0.1509	0.4310	
14	3.71	-0.01	0.0004	0.0008	-0.0070	2.0638	-17.4168	0.2928	0.0435	0.1262	0.1485	0.4310	
15	4.18	-0.04	0.0030	0.0010	-0.0054	0.5232	-1.8001	0.3529	0.0436	0.1514	0.1408	0.4290	
16	4.61	-0.06	-0.0028	0.0005	-0.0063	-0.1876	2.2618	0.3875	0.0526	0.1670	0.1358	0.4311	
17	5.08	-0.03	-0.0056	0.0005	-0.0067	-0.0034	1.1984	0.4295	0.0555	0.1836	0.1292	0.4276	
18	5.51	-0.07	-0.0120	0.0003	-0.0114	-0.0250	0.9499	0.4083	0.0579	0.2025	0.1242	0.4343	
19	5.94	-0.05	-0.0083	0.0002	-0.0088	-0.0271	1.0561	0.5015	0.0597	0.2153	0.1190	0.4294	
20	6.40	-0.01	-0.0097	0.0002	-0.0083	-0.0232	0.8590	0.5415	0.0604	0.2330	0.1115	0.4302	
21	6.85	-0.06	-0.0036	-0.0002	-0.0061	0.0625	1.6443	0.5750	0.0608	0.2407	0.1058	0.4291	
22	7.29	-0.09	-0.0106	-0.0005	-0.0062	0.0425	0.5879	0.6085	0.0613	0.2638	0.1008	0.4335	
23	7.73	-0.01	-0.0116	-0.0003	-0.0081	0.0259	0.6953	0.6435	0.0618	0.2759	0.0960	0.4288	
24	8.16	-0.04	-0.0153	-0.0003	-0.0118	0.0196	0.7711	0.6780	0.0619	0.2935	0.0913	0.4330	
25	8.59	0.04	-0.0113	-0.0012	-0.0080	0.1063	0.7049	0.7116	0.0625	0.3082	0.0879	0.4330	
26	9.00	-0.05	-0.0157	-0.0015	-0.0074	0.0956	0.4733	0.7404	0.0635	0.3191	0.0858	0.4309	
27	9.32	-0.05	-0.0174	-0.0019	-0.0081	0.1078	0.4654	0.7597	0.0640	0.3281	0.0842	0.4319	
28	9.81	-0.09	-0.0158	-0.0029	-0.0075	0.1805	0.4725	0.8036	0.0643	0.3481	0.0800	0.4332	
29	10.21	-0.03	-0.0199	-0.0030	-0.0086	0.1508	0.4337	0.8117	0.0636	0.3503	0.0783	0.4316	
30	10.61	-0.02	-0.0253	-0.0032	-0.0103	0.1246	0.4083	0.8480	0.0640	0.3670	0.0755	0.4328	
31	10.99	-0.05	-0.0247	-0.0038	-0.0094	0.1519	0.3818	0.8716	0.0634	0.3766	0.0728	0.4321	
32	11.38	-0.07	-0.0302	-0.0053	-0.0112	0.1739	0.3676	0.8869	0.0637	0.3845	0.0719	0.4335	
33	11.72	-0.08	-0.0274	-0.0055	-0.0136	0.1999	0.4774	0.9198	0.0622	0.3980	0.0676	0.4327	
34	12.08	-0.06	-0.0274	-0.0066	-0.0123	0.2410	0.4500	0.9446	0.0613	0.4093	0.0649	0.4333	
35	12.46	-0.03	-0.0227	-0.0071	-0.0103	0.3141	0.4522	0.9673	0.0605	0.4165	0.0626	0.4305	
36	12.79	-0.05	-0.0285	-0.0100	-0.0099	0.3502	0.3472	0.9815	0.0605	0.4237	0.0617	0.4317	
37	13.16	-0.03	-0.0343	-0.0095	-0.0140	0.2757	0.4090	1.0122	0.0598	0.4340	0.0591	0.4288	
38	13.52	-0.06	-0.0328	-0.0105	-0.0124	0.3203	0.3789	1.0218	0.0589	0.4362	0.0576	0.4265	
39	13.89	-0.03	-0.0341	-0.0092	-0.0134	0.2707	0.3919	1.0461	0.0588	0.4478	0.0542	0.4272	
40	14.23	-0.03	-0.0383	-0.0111	-0.0178	0.2900	0.4638	1.0508	0.0576	0.4462	0.0545	0.4222	
41	14.61	-0.06	-0.0443	-0.0142	-0.0173	0.3202	0.3896	1.0559	0.0561	0.4441	0.0531	0.4206	
42	14.93	-0.07	-0.0406	-0.0151	-0.0106	0.3715	0.2618	1.0766	0.0563	0.4570	0.0523	0.4245	
43	15.30	-0.05	-0.0418	-0.0145	-0.0180	0.3405	0.4313	1.0602	0.0511	0.4363	0.0482	0.4115	
44	15.62	-0.06	-0.0552	-0.0149	-0.0237	0.2692	0.4292	1.0714	0.0454	0.4319	0.0424	0.4032	
45	15.96	-0.05	-0.0487	-0.0138	-0.0229	0.2835	0.4708	1.0808	0.0424	0.4362	0.0393	0.4036	
46	16.29	-0.06	-0.0495	-0.0172	-0.0121	0.3472	0.2443	1.0899	0.0426	0.4411	0.0391	0.4047	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH			RX10-6		PHI		CONF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION	
	8	9	0.97	1.7	0.0	0.82	WOF13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	FIXED
47	16.63	-0.04	-0.0596	-0.0147	-0.0208	0.2468	0.3483	1.1045	0.0409	0.4427	0.0371	0.4008											
48	16.94	-0.07	-0.0616	-0.0149	-0.0285	0.2424	0.4631	1.2289	0.0218	0.4843	0.0177	0.3941											
49	20.62	-0.08	-0.0470	-0.0077	-0.0311	0.1645	0.6609	1.2341	0.0158	0.4819	0.0128	0.3905											
50	20.96	-0.08	-0.0685	-0.0167	-0.0323	0.2432	0.4719	1.2601	0.0165	0.4953	0.0131	0.3931											
51	21.25	-0.07	-0.0627	-0.0115	-0.0349	0.1831	0.5565	1.2421	0.0122	0.4854	0.0099	0.3908											
52	21.60	-0.07	-0.0434	-0.0127	-0.0245	0.2922	0.5636	1.2918	0.0133	0.5017	0.0103	0.3884											
53	21.91	-0.07	-0.0651	-0.0141	-0.0384	0.2167	0.5897	1.2767	0.0105	0.4984	0.0082	0.3903											
54	22.24	-0.10	-0.0583	-0.0225	-0.0201	0.3849	0.4452	1.3387	0.0127	0.5280	0.0095	0.3944											
55	22.56	-0.06	-0.0369	-0.0168	-0.0234	0.4526	0.6340	1.3082	0.0091	0.5126	0.0069	0.3918											
56	22.83	-0.10	-0.0035	-0.0033	-0.0225	0.9434	6.4189	1.2684	0.0068	0.4911	0.0054	0.3872											
57	23.20	-0.09	-0.0079	-0.0095	-0.0179	1.2064	2.2699	1.3153	0.0059	0.5089	0.0045	0.3869											
58	23.51	-0.08	0.0339	-0.0023	-0.0048	-0.0686	-0.1417	1.2912	0.0059	0.4981	0.0046	0.3858											
59	23.83	-0.08	0.0370	0.0005	-0.0062	0.0142	-0.1668	1.2733	0.0062	0.4897	0.0048	0.3846											
60	24.18	-0.10	0.0214	-0.0058	-0.0113	-0.2700	-0.5266	1.3130	0.0046	0.5082	0.0035	0.3870											
61	24.48	-0.11	0.0180	-0.0026	-0.0122	-0.1459	-0.6779	1.2528	0.0068	0.4818	0.0055	0.3846											
62	24.82	-0.10	0.0678	0.0025	0.0038	0.0365	0.0559	1.2446	0.0065	0.4784	0.0052	0.3844											
63	25.12	-0.11	0.0365	-0.0001	-0.0070	-0.0021	-0.1928	1.1958	0.0086	0.4566	0.0072	0.3818											
64	25.43	-0.06	-0.0656	-0.0155	-0.0061	0.2368	0.7021	1.3251	0.0022	0.5180	0.0016	0.3909											
65	25.73	-0.11	-0.0386	-0.0124	-0.0340	0.3206	1.0094	1.2872	0.0041	0.4939	0.0032	0.3837											
66	26.05	-0.07	0.1022	0.0062	0.0299	0.0610	0.2931	1.1212	0.0115	0.4202	0.0102	0.3748											
67	26.33	-0.15	0.0877	0.0021	0.0241	0.0240	0.2751	1.2687	0.0052	0.4786	0.0041	0.3772											
68	26.67	-0.05	0.0196	-0.0035	-0.0049	-0.1800	-0.5035	1.2360	0.0062	0.4677	0.0050	0.3784											
69	26.95	-0.11	-0.0034	-0.0058	-0.0222	1.6996	6.5391	1.2892	0.0034	0.4950	0.0026	0.3840											
70	27.31	-0.10	0.0577	-0.0008	0.0125	-0.0143	0.2171	1.1624	0.0085	0.4430	0.0073	0.3811											
71	27.60	-0.09	0.0528	-0.0010	0.0071	-0.0185	0.1344	1.1904	0.0080	0.4461	0.0067	0.3747											
72	27.95	-0.06	0.0378	-0.0027	-0.0059	-0.0715	-0.1562	1.1967	0.0065	0.4578	0.0055	0.3825											
73	28.25	-0.10	0.0977	0.0016	0.0268	0.0101	0.2748	1.1592	0.0083	0.4361	0.0071	0.3762											
74	28.54	-0.06	0.1139	-0.0038	0.0345	0.0336	0.3069	1.1359	0.0033	0.4268	0.0082	0.3758											
75	28.88	-0.07	0.1105	0.0020	0.0323	0.0177	0.2925	1.1419	0.0082	0.4333	0.0072	0.3795											
76	29.20	-0.06	0.0786	0.0002	0.0226	0.0019	0.2874	1.1798	0.0066	0.4470	0.0056	0.3788											
77	29.53	-0.08	0.0503	-0.0023	0.0028	-0.0448	0.0549	1.2342	0.0041	0.4632	0.0033	0.3753											

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	9.97	1.7	0.0	0.0240F13	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	-0.02	0.0052	0.0023	0.0090	0.4330	1.7171	-0.2260	-0.0291	-0.0697	0.1289	0.3084
2	-2.44	-0.05	0.0130	0.0032	0.0116	0.2482	0.8968	-0.2050	-0.0258	-0.0602	0.1260	0.2937
3	-1.91	0.0	0.0023	0.0022	0.0092	0.9462	3.9054	-0.1610	-0.0203	-0.0403	0.1259	0.2506
4	-1.29	-0.03	0.0063	0.0026	0.0102	0.4050	1.6189	-0.1165	-0.0138	-0.0203	0.1186	0.1743
5	-0.73	-0.02	0.0184	0.0036	0.0137	0.1958	0.7463	-0.0783	-0.0086	-0.0022	0.1093	0.0280
6	-0.22	-0.03	0.0143	0.0034	0.0130	0.2362	0.9066	-0.0392	-0.0038	0.0128	0.0976	-0.3275
7	0.32	-0.06	0.0130	0.0030	0.0128	0.2309	0.9871	0.0071	0.0025	0.0340	0.3488	4.7839
8	0.83	-0.02	0.0210	0.0042	0.0144	0.2001	0.6856	0.0404	0.0063	0.0408	0.1560	1.1575
9	1.32	-0.04	0.0145	0.0033	0.0114	0.2277	0.7884	0.0824	0.0122	0.0667	0.1485	0.8089
10	1.82	0.02	0.0159	0.0029	0.0125	0.1794	0.7860	0.1143	0.0165	0.0801	0.1446	0.7010
11	2.31	-0.07	0.0152	0.0038	0.0161	0.2518	1.0569	0.1579	0.0227	0.0996	0.1436	0.6311
12	2.77	-0.06	0.0196	0.0041	0.0145	0.2106	0.7414	0.1955	0.0282	0.1157	0.1440	0.5517
13	3.26	-0.02	0.0195	0.0041	0.0149	0.2117	0.7640	0.2433	0.0342	0.1362	0.1404	0.5598
14	3.71	-0.01	0.0246	0.0049	0.0180	0.1933	0.7316	0.2798	0.0384	0.1511	0.1372	0.5403
15	4.18	-0.04	0.0245	0.0052	0.0180	0.2114	0.7332	0.3217	0.0426	0.1704	0.1326	0.5298
16	4.61	-0.06	0.0245	0.0051	0.0180	0.2083	0.7332	0.3664	0.0465	0.1887	0.1269	0.5151
17	5.08	-0.03	0.0270	0.0056	0.0189	0.2085	0.6999	0.4093	0.0492	0.2097	0.1202	0.5124
18	5.51	-0.07	0.0186	0.0053	0.0186	0.2824	0.9999	0.4526	0.0516	0.2310	0.1140	0.5103
19	5.94	-0.05	0.0188	0.0052	0.0174	0.2754	0.9236	0.4879	0.0526	0.2442	0.1079	0.5006
20	6.40	-0.01	0.0225	0.0055	0.0201	0.2635	0.8932	0.5225	0.0532	0.2620	0.1019	0.5015
21	6.85	-0.06	0.0291	0.0065	0.0224	0.2218	0.7696	0.5553	0.0536	0.2801	0.0965	0.5044
22	7.29	-0.09	0.0274	0.0066	0.0235	0.2410	0.8588	0.5958	0.0535	0.2953	0.0899	0.4956
23	7.73	-0.01	0.0247	0.0066	0.0228	0.2674	0.9243	0.6339	0.0539	0.3156	0.0850	0.4978
24	8.16	-0.04	0.0224	0.0059	0.0201	0.2647	0.8957	0.6707	0.0535	0.3293	0.0797	0.4911
25	8.59	0.04	0.0223	0.0061	0.0201	0.2726	0.9027	0.6951	0.0538	0.3412	0.0773	0.4908
26	9.00	-0.05	0.0273	0.0071	0.0228	0.2584	0.8350	0.7336	0.0539	0.3576	0.0735	0.4875
27	9.38	-0.05	0.0236	0.0060	0.0215	0.2544	0.9095	0.7495	0.0544	0.3672	0.0726	0.4899
28	9.81	-0.09	0.0236	0.0061	0.0215	0.2576	0.9095	0.7785	0.0553	0.3801	0.0710	0.4882
29	10.21	-0.03	0.0271	0.0071	0.0245	0.2603	0.9052	0.8055	0.0552	0.3908	0.0685	0.4851
30	10.61	-0.02	0.0248	0.0063	0.0228	0.2542	0.9179	0.8370	0.0556	0.4052	0.0664	0.4841
31	10.99	-0.05	0.0311	0.0075	0.0258	0.2413	0.8284	0.8593	0.0552	0.4170	0.0642	0.4853
32	11.38	-0.07	0.0313	0.0071	0.0255	0.2254	0.8156	0.8794	0.0559	0.4252	0.0635	0.4835
33	11.72	-0.08	0.0315	0.0068	0.0248	0.2168	0.7872	0.9082	0.0546	0.4388	0.0601	0.4832
34	12.08	-0.06	0.0351	0.0080	0.0268	0.2288	0.7634	0.9273	0.0550	0.4471	0.0594	0.4821
35	12.46	-0.03	0.0311	0.0071	0.0266	0.2242	0.8541	0.9525	0.0547	0.4583	0.0575	0.4811
36	12.79	-0.05	0.0407	0.0076	0.0287	0.1862	0.7042	0.9720	0.0541	0.4647	0.0557	0.4780
37	13.16	-0.03	0.0325	0.0068	0.0278	0.2101	0.8563	1.0061	0.0505	0.4785	0.0502	0.4756
38	13.52	-0.06	0.0355	0.0066	0.0277	0.1860	0.7811	1.0199	0.0499	0.4825	0.0489	0.4731
39	13.89	-0.03	0.0365	0.0070	0.0299	0.1912	0.8181	1.0454	0.0481	0.4936	0.0460	0.4722
40	14.23	-0.03	0.0312	0.0064	0.0283	0.2045	0.9069	1.0596	0.0481	0.4992	0.0454	0.4712
41	14.61	-0.06	0.0389	0.0076	0.0321	0.1949	0.8242	1.0666	0.0493	0.4925	0.0463	0.4617
42	14.93	-0.07	0.0369	0.0065	0.0292	0.1769	0.7912	1.0833	0.0486	0.4971	0.0448	0.4589
43	15.30	-0.05	0.0405	0.0071	0.0329	0.1742	0.8122	1.0694	0.0460	0.4861	0.0430	0.4566
44	15.62	-0.06	0.0415	0.0080	0.0332	0.1935	0.8007	1.0834	0.0439	0.4907	0.0405	0.4529
45	15.96	-0.05	0.0377	0.0074	0.0312	0.1571	0.8266	1.0704	0.0394	0.4782	0.0368	0.4468
46	16.29	-0.06	0.0363	0.0074	0.0314	0.2047	0.8649	1.0535	0.0334	0.4610	0.0317	0.4376

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	9.097	1.7	0.0	B2WDF13	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.63	-0.04	0.0339	0.0065	0.0312	0.1926	0.9202	1.0593	0.0316	0.4675	0.0298	0.4414
48	16.94	-0.07	0.0373	0.0076	0.0351	0.2032	0.9418	1.1018	0.0137	0.4799	0.0124	0.4356
49	20.62	-0.08	0.0445	0.0095	0.0416	0.2125	0.9332	1.1248	0.0110	0.4898	0.0097	0.4354
50	20.96	-0.08	0.0425	0.0083	0.0386	0.1960	0.9073	1.0451	0.0133	0.4600	0.0127	0.4402
51	21.25	-0.07	0.0503	0.0093	0.0411	0.1850	0.8163	1.0877	0.0121	0.4640	0.0111	0.4266
52	21.60	-0.07	0.0522	0.0107	0.0455	0.2041	0.8715	0.9958	0.0150	0.4259	0.0151	0.4277
53	21.91	-0.07	0.0435	0.0089	0.0394	0.2053	0.9056	1.0117	0.0134	0.4521	0.0132	0.4469
54	22.24	-0.10	0.0513	0.0096	0.0443	0.1873	0.8634	0.8939	0.0185	0.3854	0.0207	0.4312
55	22.56	-0.06	0.0419	0.0092	0.0405	0.2203	0.9752	0.9082	0.0179	0.3896	0.0198	0.4290
56	22.83	-0.10	0.0495	0.0107	0.0420	0.2153	0.9090	1.0140	0.0131	0.4424	0.0130	0.4363
57	23.20	-0.09	0.0512	0.0103	0.0444	0.2008	0.8664	0.9310	0.0164	0.4014	0.0177	0.4311
58	23.51	-0.08	0.0602	0.0116	0.0491	0.1932	0.8149	0.9447	0.0155	0.4074	0.0163	0.4290
59	23.83	-0.08	0.0579	0.0107	0.0476	0.1853	0.8220	1.0207	0.0125	0.4423	0.0123	0.4333
60	24.18	-0.10	0.0502	0.0098	0.0424	0.1958	0.8432	0.9571	0.0153	0.4095	0.0160	0.4278
61	24.48	-0.11	0.0567	0.0105	0.0462	0.1853	0.8147	1.0286	0.0119	0.4412	0.0115	0.4289
62	24.82	-0.10	0.0506	0.0112	0.0470	0.2210	0.9281	1.0055	0.0126	0.4335	0.0125	0.4311
63	25.12	-0.11	0.0616	0.0113	0.0496	0.1840	0.8040	1.0182	0.0111	0.4481	0.0109	0.4401
64	25.43	-0.06	0.0521	0.0104	0.0475	0.1988	0.9109	0.9609	0.0140	0.4111	0.0145	0.4279
65	25.73	-0.11	0.0495	0.0104	0.0466	0.2042	0.9413	0.9444	0.0139	0.4119	0.0147	0.4362
66	26.05	-0.07	0.0604	0.0116	0.0492	0.1913	0.8133	0.9882	0.0118	0.4310	0.0119	0.4361
67	26.33	-0.15	0.0628	0.0123	0.0512	0.1940	0.8141	0.9869	0.0118	0.4304	0.0119	0.4361
68	26.67	-0.05	0.0561	0.0115	0.0505	0.2047	0.9001	0.9749	0.0123	0.4247	0.0126	0.4356
69	26.95	-0.11	0.0443	0.0101	0.0444	0.2270	1.0014	0.9671	0.0129	0.4217	0.0134	0.4360
70	27.31	-0.10	0.0551	0.0111	0.0472	0.2016	0.8559	0.9771	0.0119	0.4272	0.0122	0.4372
71	27.60	-0.09	0.0644	0.0119	0.0516	0.1841	0.8006	0.9836	0.0112	0.4308	0.0114	0.4380
72	27.95	-0.06	0.0593	0.0110	0.0486	0.1860	0.8189	1.0030	0.0106	0.4383	0.0106	0.4370
73	28.25	-0.10	0.0660	0.0120	0.0530	0.1876	0.8270	1.0145	0.0096	0.4446	0.0095	0.4383
74	28.54	-0.06	0.0745	0.0134	0.0575	0.1793	0.7708	1.0153	0.0095	0.4442	0.0093	0.4375
75	28.88	-0.07	0.0718	0.0128	0.0553	0.1777	0.7691	1.0321	0.0082	0.4525	0.0079	0.4384
76	29.20	-0.06	0.0611	0.0115	0.0520	0.1879	0.8504	1.0312	0.0082	0.4531	0.0079	0.4394
77	29.53	-0.08	0.0766	0.0133	0.0601	0.1734	0.7836	1.0134	0.0086	0.4480	0.0085	0.4421

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 10 1.01 1.7 0.0 82WDF13 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP
1	-2.77	0.02	-0.4735	1.3669	-0.0385	0.0239	-0.0160	0.3306	-2.8738
2	-2.57	0.0	-0.4535	1.2299	-0.1105	0.0127	-0.0190	0.3335	-2.7117
3	-2.00	0.0	-0.3186	0.8899	-0.0055	-0.0253	-0.0160	0.3317	-2.7936
4	-1.37	-0.01	-0.2253	0.6323	-0.0627	0.0338	-0.0180	0.3299	-2.8070
5	-0.83	0.02	-0.1209	0.3122	-0.0478	0.0665	-0.0200	0.3292	-2.5828
6	-0.28	0.01	-0.0189	-0.0015	-0.0718	0.0065	-0.0190	0.3279	-0.0815
7	0.24	0.03	0.1003	-0.2934	0.0335	0.0831	-0.0180	0.3279	-2.9254
8	0.76	0.0	0.1785	-0.4918	-0.0508	0.0401	-0.0150	0.3250	-2.7557
9	1.24	0.0	0.2946	-0.8363	-0.0311	-0.0025	-0.0170	0.3211	-2.8392
10	1.76	0.02	0.4118	-1.1415	-0.0543	0.0750	-0.0140	0.3262	-2.7717
11	2.22	0.01	0.4890	-1.3726	-0.0661	0.0665	-0.0120	0.3271	-2.8067
12	2.72	0.03	0.5792	-1.6108	0.0602	-0.0043	-0.0100	0.3317	-2.7810
13	3.19	0.02	0.6476	-1.8465	-0.0085	0.0429	-0.0070	0.3416	-2.8513
14	3.64	0.02	0.7657	-2.2078	-0.0497	0.1166	-0.0130	0.3349	-2.8834
15	4.11	0.01	0.8688	-2.4431	-0.0124	0.0194	-0.0150	0.3271	-2.8121
16	4.55	0.02	0.9666	-2.7210	0.0201	0.1318	-0.0190	0.3215	-2.8151
17	5.02	0.01	1.0582	-3.0772	-0.1715	0.2331	-0.0130	0.3115	-2.9081
18	5.45	0.04	1.1376	-3.2594	-0.0199	0.0289	-0.0170	0.2966	-2.8652
19	5.89	0.01	1.2680	-3.6520	-0.0479	0.1270	-0.0160	0.3048	-2.8800
20	6.80	0.0	1.5692	-4.1656	-0.1246	0.1264	-0.0140	0.3137	-2.8340
21	7.23	-0.01	1.5223	-4.3459	-0.0605	0.0697	-0.0120	0.3102	-2.8548
22	7.67	0.02	1.5901	-4.6098	-0.0688	0.2243	-0.0090	0.3145	-2.8991
23	8.11	0.02	1.7016	-4.8139	-0.0786	0.1560	-0.0130	0.3341	-2.8291
24	9.32	-0.03	1.9919	-5.5234	-0.0982	0.1765	-0.0130	0.3207	-2.7729
25	9.75	-0.01	2.0684	-5.7124	-0.0227	0.1958	-0.0110	0.3089	-2.7617
26	10.13	-0.04	2.1342	-5.8805	0.0383	0.1614	-0.0170	0.3074	-2.7554
27	10.55	-0.03	2.2344	-6.0898	-0.1361	0.1765	-0.0130	0.3015	-2.7255
28	10.93	-0.01	2.2865	-6.2647	-0.1180	0.2382	-0.0200	0.3032	-2.7399
29	11.33	0.02	2.4317	-6.4590	-0.0619	0.1816	-0.0180	0.3013	-2.6582
30	11.68	0.0	2.4660	-6.6150	-0.0224	0.1343	-0.0180	0.3009	-2.6825
31	12.07	0.01	2.5701	-6.7937	-0.0207	0.3479	-0.0150	0.3017	-2.6434
32	12.41	-0.02	2.6247	-6.9441	-0.1506	0.1948	-0.0210	0.3184	-2.6457
33	12.75	-0.01	2.6937	-7.0628	-0.1659	0.2792	-0.0220	0.3285	-2.6219
34	13.12	0.03	2.7764	-7.2016	0.0127	0.2672	-0.0290	0.3227	-2.5938
35	13.47	-0.02	2.8464	-7.3316	-0.0260	0.1862	-0.0280	0.3214	-2.5757
36	13.83	-0.01	2.9517	-7.5719	0.0046	0.2535	-0.0170	0.3127	-2.5653
37	14.17	-0.04	3.0174	-7.7099	-0.1598	0.3717	-0.0190	0.3138	-2.5551
38	14.55	-0.03	3.1399	-7.8914	-0.1010	0.3244	-0.0170	0.3114	-2.5133
39	14.88	-0.04	3.1896	-8.0020	-0.0372	0.2850	-0.0280	0.3048	-2.5088
40	15.24	-0.01	3.2619	-8.1392	0.0461	0.2614	-0.0320	0.3028	-2.4952
41	15.57	-0.05	3.3355	-8.2672	-0.0506	0.3258	-0.0410	0.2980	-2.4786
42	15.90	-0.01	3.3480	-8.3397	-0.1381	0.4813	-0.0200	0.2910	-2.4910
43	16.23	-0.04	3.4918	-8.4371	-0.1345	0.3273	-0.0310	0.2940	-2.4162
44	16.58	-0.01	3.5463	-8.5514	-0.0152	0.4062	-0.0440	0.2847	-2.4113
45	16.90	-0.02	3.5966	-8.6018	-0.0134	0.2637	-0.0530	0.2861	-2.3916
46	17.22	-0.03	3.6681	-8.5929	-0.1027	0.3097	-0.0670	0.2855	-2.3426

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
6 10 1.01 1.7 0.0 B2WOF13 0.0 0 0 0 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	17.56	-0.03	3.7447	-8.6461	-0.0616	0.2302	-0.0790	0.2871	-2.3089
48	17.89	-0.06	3.7613	-8.5594	-0.1810	0.4093	-0.0410	0.2912	-2.2756
49	18.24	-0.06	3.8562	-8.5653	-0.1397	0.3155	-0.0630	0.2804	-2.2212
50	18.57	-0.04	3.9040	-8.5662	-0.0424	0.4453	-0.0740	0.2833	-2.1947
51	18.93	-0.03	3.9718	-8.5861	-0.1324	0.3153	-0.0840	0.2727	-2.1618
52	19.23	-0.06	4.0259	-8.6718	-0.0981	0.2663	-0.0900	0.2735	-2.1540
53	19.55	-0.07	4.1225	-8.7001	-0.1694	0.5041	-0.0950	0.2645	-2.1104
54	19.90	-0.04	4.1644	-8.7597	-0.0489	0.3204	-0.0970	0.2507	-2.1035
55	20.21	0.0	4.2100	-8.8547	0.0492	0.3811	-0.1030	0.2434	-2.1032
56	20.57	-0.04	4.3264	-8.9056	-0.0881	0.2103	-0.0970	0.2337	-2.0593
57	20.91	-0.06	4.4294	-8.9278	-0.0716	0.3052	-0.0950	0.2228	-2.0156
58	21.25	-0.06	4.4899	-9.0175	-0.1896	0.2824	-0.0880	0.2329	-2.0094
59	21.57	-0.05	4.6037	-9.0748	-0.0456	0.4364	-0.1220	0.2287	-1.9712
60	21.89	-0.05	4.6671	-9.0546	0.0192	0.3041	-0.1090	0.2318	-1.9401
61	22.20	-0.06	4.7524	-9.1170	0.0045	0.1527	-0.1020	0.2336	-1.9184
62	22.52	-0.06	4.8050	-9.0477	0.0278	0.3800	-0.1190	0.2249	-1.8830

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6			PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		10	1.01	1.7	0.0	82W0F13	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	-2.77	0.02	0.0168	0.0006	-0.0246	0.0357	-1.4644	-0.1992	-0.0279	-0.0950	0.1402	0.4769	
2	-2.57	0.0	0.0208	0.0007	-0.0246	0.0325	-1.1312	-0.1733	-0.0241	-0.0842	0.1391	0.4856	
3	-2.00	0.0	0.0419	0.0025	-0.0159	0.0681	-0.3804	-0.1286	-0.0177	-0.0636	0.1378	0.4943	
4	-1.37	-0.01	0.0303	0.0016	-0.0190	0.0520	-0.6272	-0.0932	-0.0131	-0.0491	0.1403	0.5276	
5	-0.53	0.02	0.0179	0.0007	-0.0222	0.0377	-1.2422	-0.0416	-0.0056	-0.0253	0.1353	0.6073	
6	-0.28	0.01	0.0209	0.0014	-0.0192	0.0682	-0.9204	-0.0342	-0.0010	-0.0097	0.2323	2.3094	
7	0.24	0.03	0.0208	0.0014	-0.0179	0.0686	-0.8591	0.0444	0.0050	0.0099	0.1116	0.2229	
8	0.76	0.0	0.0176	0.0011	-0.0167	0.0640	-0.9509	0.0714	0.0086	0.0247	0.1209	0.3458	
9	1.24	0.0	0.0124	0.0011	-0.0175	0.0847	-1.4387	0.1137	0.0160	0.0430	0.1229	0.3781	
10	1.76	0.02	0.0163	0.0012	-0.0164	0.0737	-1.0042	0.1604	0.0208	0.0635	0.1283	0.3962	
11	2.22	0.01	0.0126	0.0014	-0.0162	0.1132	-1.2858	0.1948	0.0246	0.0756	0.1260	0.3882	
12	2.72	0.03	0.0186	0.0010	-0.0159	0.0525	-0.8550	0.2323	0.0293	0.0920	0.1260	0.3961	
13	3.19	0.02	0.0295	0.0020	-0.0114	0.0661	-0.3854	0.2682	0.0334	0.1075	0.1246	0.4007	
14	3.64	0.02	0.0122	0.0008	-0.0181	0.0677	-1.4865	0.3143	0.0374	0.1257	0.1190	0.4001	
15	4.11	0.01	0.0281	0.0017	-0.0110	0.0588	-0.3928	0.3520	0.0411	0.1441	0.1167	0.4094	
16	4.55	0.02	0.0201	0.0008	-0.0164	0.0411	-0.8409	0.3849	0.0443	0.1580	0.1151	0.4104	
17	5.02	0.01	0.0137	0.0010	-0.0173	0.0712	-1.2653	0.4325	0.0475	0.1780	0.1099	0.4116	
18	5.45	0.04	0.0164	0.0009	-0.0179	0.0549	-0.4936	0.4692	0.0494	0.1969	0.1053	0.4196	
19	5.89	0.01	0.0134	-0.0001	-0.0015	-0.0056	-0.1145	0.0015	-0.0002	-0.0004	-0.1001	-0.2668	
20	6.80	0.0	0.0153	0.0008	-0.0201	0.0540	-1.3138	0.5884	0.0526	0.2473	0.0893	0.4203	
21	7.23	-0.01	0.0253	0.0007	-0.0162	0.0257	-0.6391	0.6174	0.0528	0.2608	0.0855	0.4223	
22	7.67	0.02	0.0286	0.0006	-0.0127	0.0210	-0.4430	0.6521	0.0533	0.2778	0.0818	0.4260	
23	8.11	0.02	0.0145	0.0005	-0.0163	0.0362	-1.1220	0.6749	0.0532	0.2882	0.0788	0.4271	
24	9.32	-0.03	0.0069	-0.0001	-0.0140	-0.0109	-2.0291	0.7767	0.0517	0.3249	0.0666	0.4274	
25	9.75	-0.01	0.0096	-0.0006	-0.0081	-0.0625	-0.8439	0.8030	0.0514	0.3420	0.0640	0.4259	
26	10.13	-0.04	0.0003	-0.0008	-0.0099	-2.7517	-33.0001	0.8304	0.0508	0.3543	0.0611	0.4267	
27	10.55	-0.03	-0.0032	-0.0017	-0.0106	0.5394	3.3020	0.8481	0.0509	0.3637	0.0600	0.4289	
28	10.93	-0.01	-0.0081	-0.0016	-0.0126	0.1946	1.5801	0.8801	0.0502	0.3773	0.0571	0.4287	
29	11.33	0.02	-0.0134	-0.0030	-0.0145	0.2240	1.0795	0.9098	0.0493	0.3872	0.0541	0.4256	
30	11.68	0.0	-0.0088	-0.0033	-0.0111	0.3752	1.2650	0.9285	0.0490	0.3993	0.0527	0.4301	
31	12.05	0.01	-0.0086	-0.0043	-0.0100	0.4474	1.1588	0.9543	0.0480	0.4099	0.0503	0.4296	
32	12.41	-0.02	-0.0186	-0.0043	-0.0156	0.2300	0.8386	0.9800	0.0469	0.4200	0.0478	0.4286	
33	12.75	-0.01	-0.0212	-0.0050	-0.0156	0.2620	0.7342	1.0032	0.0459	0.4258	0.0457	0.4245	
34	13.12	0.03	-0.0381	-0.0059	-0.0194	0.1556	0.5091	1.0201	0.0455	0.4339	0.0446	0.4254	
35	13.47	-0.02	-0.0278	-0.0073	-0.0181	0.2619	0.6498	1.0375	0.0447	0.4400	0.0431	0.4241	
36	13.83	-0.01	-0.0208	-0.0076	-0.0134	0.3644	0.6457	1.0631	0.0423	0.4527	0.0398	0.4258	
37	14.17	-0.04	-0.0378	-0.0093	-0.0183	0.2462	0.4840	1.0840	0.0416	0.4576	0.0384	0.4221	
38	14.55	-0.03	-0.0284	-0.0088	-0.0156	0.3092	0.5480	1.1052	0.0398	0.4609	0.0360	0.4243	
39	14.88	-0.04	-0.0370	-0.0088	-0.0206	0.2373	0.5575	1.1243	0.0393	0.4759	0.0350	0.4233	
40	15.24	-0.01	-0.0475	-0.0104	-0.0235	0.2196	0.4953	1.1423	0.0386	0.4823	0.0338	0.4222	
41	15.57	-0.05	-0.0535	-0.0112	-0.0241	0.2090	0.4510	1.1643	0.0390	0.4883	0.0335	0.4194	
42	15.90	-0.01	-0.0526	-0.0147	-0.0182	0.2796	0.3465	1.1777	0.0389	0.4918	0.0330	0.4176	
43	16.23	-0.04	-0.0602	-0.0152	-0.0255	0.2531	0.4229	1.1923	0.0383	0.4997	0.0321	0.4191	
44	16.58	-0.01	-0.0586	-0.0142	-0.0295	0.2420	0.5039	1.2159	0.0382	0.5052	0.0314	0.4155	
45	16.90	-0.02	-0.0640	-0.0141	-0.0380	0.2204	0.5942	1.2241	0.0378	0.5078	0.0309	0.4149	
46	17.22	-0.03	-0.0665	-0.0156	-0.0313	0.2347	0.4701	1.2437	0.0372	0.5131	0.0299	0.4125	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		10		1.01 1.7		0.0	B2WOF13	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	Cu1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	17.56	-0.03	-0.0784	-0.0167	-0.0383	0.2125	0.4388	1.2551	0.0365	0.5183	0.0291	0.4129	
48	17.89	-0.06	-0.0688	-0.0161	-0.0372	0.2345	0.5411	1.2282	0.0337	0.4903	0.0275	0.3992	
49	18.24	-0.06	-0.0827	-0.0185	-0.0401	0.2241	0.4844	1.2331	0.0316	0.4917	0.0256	0.3988	
50	18.57	-0.04	-0.0900	-0.0194	-0.0416	0.2151	0.4621	1.2502	0.0305	0.4959	0.0244	0.3967	
51	18.93	-0.03	-0.0790	-0.0147	-0.0474	0.1862	0.6003	1.2619	0.0280	0.4998	0.0222	0.3961	
52	19.23	-0.06	-0.0783	-0.0129	-0.0484	0.1649	0.6180	1.2750	0.0270	0.5032	0.0212	0.3947	
53	19.55	-0.07	-0.0927	-0.0158	-0.0532	0.1710	0.5740	1.2866	0.0258	0.5076	0.0200	0.3945	
54	19.90	-0.04	-0.0941	-0.0149	-0.0552	0.1589	0.5364	1.2925	0.0235	0.5081	0.0182	0.3931	
55	20.21	0.0	-0.1045	-0.0185	-0.0576	0.1776	0.5459	1.2987	0.0228	0.5113	0.0176	0.3937	
56	20.57	-0.04	-0.0810	-0.0119	-0.0537	0.1473	0.6628	1.3205	0.0195	0.5148	0.0148	0.3898	
57	20.91	-0.06	-0.0752	-0.0110	-0.0502	0.1467	0.6670	1.3284	0.0185	0.5197	0.0139	0.3912	
58	21.25	-0.06	-0.0665	-0.0101	-0.0498	0.1524	0.7483	1.3391	0.0168	0.5235	0.0126	0.3909	
59	21.57	-0.05	-0.1022	-0.0173	-0.0564	0.1698	0.5516	1.3560	0.0174	0.5300	0.0128	0.3908	
60	21.89	-0.05	-0.0621	-0.0100	-0.0516	0.1607	0.8308	1.3628	0.0137	0.5326	0.0100	0.3908	
61	22.20	-0.06	-0.0528	-0.0074	-0.0501	0.1393	0.9487	1.3765	0.0127	0.5344	0.0092	0.3882	
62	22.52	-0.06	-0.0863	-0.0159	-0.0521	0.1844	0.6032	1.3755	0.0127	0.5379	0.0092	0.3910	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	10	1.01	1.7	0.0	B2M0F13	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.02	-0.0012	0.0022	0.0140	-1.8136	-11.6668	-0.2655	-0.0276	-0.0648	0.1041	0.2439
2	-2.57	0.0	0.0003	0.0023	0.0126	7.7548	41.9999	-0.2436	-0.0245	-0.0568	0.1005	0.2330
3	-2.00	0.0	0.0040	0.0032	0.0136	0.7880	3.4382	-0.2070	-0.0197	-0.0408	0.0950	0.1969
4	-1.37	-0.01	0.0012	0.0029	0.0144	2.4390	12.1665	-0.1605	-0.0148	-0.0239	0.0922	0.1487
5	-0.83	0.02	-0.0002	0.0030	0.0147	-15.0043	-73.6667	-0.1064	-0.0086	-0.0016	0.0812	0.0152
6	-0.28	0.01	0.0138	0.0045	0.0193	0.3263	1.3984	-0.0641	-0.0034	0.0187	0.0927	-0.2908
7	0.24	0.03	0.0050	0.0036	0.0156	0.7204	3.1132	-0.0229	0.0020	0.0374	-0.0852	-1.6319
8	0.76	0.0	-0.0038	0.0020	0.0120	-0.6715	-3.1668	0.0090	0.0056	0.0511	0.6254	5.6777
9	1.24	0.0	0.0059	0.0043	0.0168	0.7250	2.8417	0.0575	0.0114	0.0721	0.1984	1.2532
10	1.76	0.02	0.0125	0.0045	0.0179	0.3602	1.4292	0.1031	0.0172	0.0926	0.1669	0.8983
11	2.22	0.01	0.0137	0.0047	0.0185	0.3451	1.3478	0.1420	0.0215	0.1102	0.1513	0.7765
12	2.72	0.03	0.0049	0.0036	0.0154	0.7352	3.1495	0.1797	0.0259	0.1234	0.1442	0.6868
13	3.19	0.02	0.0009	0.0038	0.0145	4.1693	16.1110	0.2003	0.0285	0.1374	0.1421	0.6859
14	3.64	0.02	0.0098	0.0047	0.0174	0.4748	1.7720	0.2536	0.0338	0.1592	0.1332	0.6275
15	4.11	0.01	0.0084	0.0047	0.0176	0.5539	2.0951	0.2926	0.0365	0.1736	0.1247	0.5935
16	4.55	0.02	0.0109	0.0051	0.0187	0.4682	1.7185	0.3234	0.0398	0.1903	0.1231	0.5885
17	5.02	0.01	0.0058	0.0044	0.0179	0.7634	3.0918	0.3807	0.0426	0.2157	0.1120	0.5666
18	5.45	0.04	0.0057	0.0049	0.0190	0.5029	1.9621	0.4116	0.0439	0.2291	0.1067	0.5566
19	5.89	0.01	-0.0058	0.0002	0.0016	-0.0259	-0.2702	0.0029	0.0001	-0.0015	0.0259	-0.5289
20	6.80	0.0	0.0100	0.0046	0.0177	0.4578	1.7732	0.5245	0.0400	0.2833	0.0689	0.5402
21	7.23	-0.01	0.0135	0.0054	0.0205	0.4002	1.5184	0.5637	0.0469	0.2984	0.0831	0.5293
22	7.67	0.02	0.0054	0.0050	0.0195	0.9172	3.6110	0.6010	0.0469	0.3157	0.0780	0.5253
23	8.11	0.02	0.0167	0.0067	0.0240	0.3999	1.4350	0.6342	0.0466	0.3316	0.0735	0.5228
24	9.32	-0.03	0.0124	0.0066	0.0243	0.5326	1.9622	0.7311	0.0459	0.3735	0.0628	0.5109
25	9.75	-0.01	0.0116	0.0059	0.0221	0.5111	1.9022	0.7485	0.0454	0.3835	0.0606	0.5123
26	10.13	-0.04	0.0164	0.0068	0.0256	0.4118	1.5588	0.7754	0.0453	0.3955	0.0584	0.5100
27	10.52	-0.03	0.0192	0.0070	0.0246	0.3635	1.2811	0.8092	0.0442	0.4103	0.0547	0.5071
28	10.93	-0.01	0.0115	0.0060	0.0234	0.5221	2.0028	0.8247	0.0442	0.4170	0.0536	0.5056
29	11.33	0.02	0.0178	0.0070	0.0252	0.3921	1.4175	0.8652	0.0430	0.4319	0.0497	0.4992
30	11.68	0.0	0.0189	0.0072	0.0270	0.3812	1.4285	0.8843	0.0426	0.4421	0.0482	0.5000
31	12.05	0.01	0.0206	0.0069	0.0252	0.3352	1.2216	0.9195	0.0414	0.4571	0.0451	0.4971
32	12.41	-0.02	0.0240	0.0078	0.0288	0.3252	1.1999	0.9462	0.0403	0.4670	0.0426	0.4935
33	12.75	-0.01	0.0179	0.0067	0.0256	0.3731	1.3947	0.9627	0.0389	0.4757	0.0404	0.4941
34	13.12	0.03	0.0188	0.0069	0.0271	0.3672	1.4396	0.9827	0.0380	0.4808	0.0387	0.4893
35	13.47	-0.02	0.0284	0.0079	0.0317	0.2736	1.1006	1.0000	0.0360	0.4896	0.0360	0.4896
36	13.83	-0.01	0.0251	0.0070	0.0308	0.2781	1.2256	1.0372	0.0339	0.5048	0.0327	0.4867
37	14.17	-0.04	0.0280	0.0068	0.0297	0.2439	1.0618	1.0494	0.0323	0.5125	0.0308	0.4883
38	14.55	-0.03	0.0243	0.0063	0.0285	0.2594	1.1727	1.0799	0.0312	0.5238	0.0289	0.4851
39	14.88	-0.04	0.0265	0.0068	0.0310	0.2549	1.1709	1.0875	0.0306	0.5269	0.0281	0.4845
40	15.24	-0.01	0.0289	0.0071	0.0327	0.2467	1.1325	1.1056	0.0295	0.5371	0.0267	0.4858
41	15.57	-0.05	0.0290	0.0072	0.0320	0.2484	1.1022	1.1194	0.0297	0.5425	0.0266	0.4846
42	15.90	-0.01	0.0126	0.0051	0.0265	0.4050	2.1031	1.1450	0.0288	0.5500	0.0251	0.4804
43	16.23	-0.04	0.0290	0.0070	0.0334	0.2407	1.1505	1.1602	0.0298	0.5564	0.0257	0.4796
44	16.58	-0.01	0.0300	0.0077	0.0340	0.2577	1.1332	1.1782	0.0302	0.5616	0.0256	0.4766
45	16.90	-0.02	0.0325	0.0077	0.0361	0.2355	1.1117	1.1776	0.0289	0.5627	0.0245	0.4778
46	17.22	-0.03	0.0311	0.0082	0.0345	0.2630	1.1210	1.1719	0.0333	0.5497	0.0284	0.4690

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 10 1.01 1.7 0.0 82WOF13 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	17.50	-0.03	0.0335	0.0085	0.0363	0.2531	1.0825	1.1729	0.0326	0.5462	0.0278	0.4657
48	17.89	-0.06	0.0293	0.0083	0.0374	0.2843	1.2752	1.1878	0.0318	0.5543	0.0267	0.4666
49	18.24	-0.06	0.0421	0.0096	0.0410	0.2282	0.9722	1.1839	0.0304	0.5465	0.0257	0.4616
50	18.57	-0.04	0.0296	0.0079	0.0364	0.2662	1.2285	1.1702	0.0282	0.5421	0.0239	0.4601
51	18.93	-0.03	0.0339	0.0095	0.0406	0.2811	1.1975	1.1793	0.0298	0.5406	0.0219	0.4584
52	19.23	-0.06	0.0409	0.0095	0.0401	0.2312	0.9787	1.1861	0.0240	0.5420	0.0202	0.4570
53	19.55	-0.07	0.0292	0.0086	0.0374	0.2930	1.2784	1.1994	0.0215	0.5433	0.0179	0.4530
54	19.90	-0.04	0.0359	0.0088	0.0383	0.2446	1.0658	1.2029	0.0201	0.5445	0.0167	0.4527
55	20.21	0.0	0.0361	0.0087	0.0383	0.2411	1.0617	1.2137	0.0175	0.5457	0.0144	0.4496
56	20.57	-0.04	0.0407	0.0098	0.0427	0.2416	1.0482	1.2240	0.0167	0.5501	0.0137	0.4495
57	20.91	-0.06	0.0369	0.0095	0.0405	0.2563	1.0974	1.2356	0.0152	0.5515	0.0123	0.4463
58	21.25	-0.06	0.0363	0.0087	0.0368	0.2398	1.0137	1.2426	0.0138	0.5565	0.0111	0.4479
59	21.57	-0.05	0.0497	0.0108	0.0448	0.2174	0.9006	1.2486	0.0102	0.5546	0.0082	0.4442
60	21.89	-0.05	0.0484	0.0106	0.0452	0.2186	0.9324	1.2624	0.0104	0.5622	0.0083	0.4454
61	22.20	-0.06	0.0492	0.0114	0.0461	0.2319	0.9369	1.2715	0.0093	0.5662	0.0073	0.4453
62	22.52	-0.06	0.0568	0.0102	0.0422	0.1797	0.7434	1.2630	0.0047	0.5614	0.0037	0.4445

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	11	1.05	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.77	0.0	-0.5104	1.4895	0.0426	0.1063	-0.0140	0.3820	-2.9181		
2	-2.72	-0.01	-0.4578	1.3309	-0.0310	0.0234	-0.0130	0.3763	-2.9069		
3	-2.06	0.03	-0.3570	1.0627	-0.0918	0.0685	-0.0080	0.3808	-2.9770		
4	-1.47	0.05	-0.2687	0.7401	0.0092	0.1251	-0.0140	0.3764	-2.7547		
5	-0.91	0.01	-0.1514	0.4159	-0.0163	0.0548	-0.0130	0.3728	-2.7474		
6	-0.36	0.0	-0.0526	0.1306	0.0334	0.0392	-0.0100	0.3816	-2.4836		
7	0.16	0.01	0.0246	-0.0834	0.0046	0.0256	-0.0120	0.3870	-3.3919		
8	0.68	-0.01	0.1380	-0.4111	-0.0935	-0.0311	-0.0090	0.3878	-2.9797		
9	1.16	-0.03	0.2540	-0.7435	0.0175	0.0065	-0.0100	0.3838	-2.9276		
10	1.66	0.03	0.3541	-0.9996	0.0945	0.0321	-0.0070	0.3820	-2.8233		
11	2.14	0.03	0.4508	-1.3251	0.0305	0.0723	-0.0040	0.3642	-2.9391		
12	2.61	0.04	0.5479	-1.5800	-0.0489	0.0475	-0.0080	0.3650	-2.8836		
13	3.12	0.01	0.6881	-1.8842	-0.0125	0.0311	-0.0060	0.3773	-2.7333		
14	3.57	0.01	0.7614	-2.2028	-0.0339	0.0464	-0.0110	0.3745	-2.8431		
15	4.03	0.0	0.8529	-2.4579	0.0037	0.0858	-0.0080	0.3775	-2.8818		
16	4.47	0.05	0.9340	-2.6724	0.0352	0.0777	-0.0080	0.3760	-2.8613		
17	4.94	0.03	1.0466	-2.9770	0.0239	0.0835	-0.0090	0.3752	-2.8445		
18	5.36	0.02	1.1407	-3.2878	0.0396	0.1095	-0.0130	0.3562	-2.8822		
19	5.83	-0.01	1.2250	-3.4978	-0.0290	0.0266	-0.0060	0.3620	-2.8553		
20	6.27	-0.04	1.2911	-3.7343	-0.1632	0.0245	-0.0040	0.3520	-2.8923		
21	6.70	-0.01	1.4296	-4.0372	0.0088	0.0107	-0.0040	0.3659	-2.8240		
22	7.19	0.02	1.5013	-4.2555	0.0023	0.0808	-0.0040	0.3635	-2.8346		
23	7.58	0.02	1.5955	-4.4934	0.0005	0.0223	0.0020	0.3807	-2.8163		
24	8.02	0.05	1.6645	-4.7250	-0.0076	0.1186	-0.0030	0.3564	-2.8387		
25	8.44	0.02	1.7612	-4.9463	-0.0075	0.1065	-0.0070	0.3699	-2.8085		
26	8.87	0.0	1.8365	-5.0927	-0.1045	0.0499	-0.0040	0.3685	-2.7731		
27	9.26	-0.05	1.9166	-5.3520	-0.1415	0.2181	-0.0060	0.3582	-2.7924		
28	9.70	-0.04	2.0127	-5.5715	-0.1624	0.0793	-0.0060	0.3450	-2.7681		
29	10.09	0.02	2.1321	-5.7466	0.1096	0.1845	-0.0090	0.3316	-2.6953		
30	10.48	-0.05	2.1826	-5.9203	-0.0878	0.3449	-0.0020	0.3276	-2.7125		
31	10.88	-0.06	2.2772	-6.0677	-0.1325	0.1925	-0.0060	0.3210	-2.6645		
32	11.24	0.01	2.3459	-6.2539	0.0392	0.2671	-0.0070	0.3272	-2.6659		
33	11.62	-0.02	2.4420	-6.4474	-0.1437	0.1952	-0.0170	0.3416	-2.6402		
34	11.97	0.02	2.5020	-6.5724	-0.0087	0.1852	-0.0130	0.3561	-2.6269		
35	12.35	-0.03	2.5997	-6.7241	-0.1927	0.2737	-0.0050	0.3785	-2.5865		
36	12.69	-0.01	2.6462	-6.7952	-0.0163	0.2048	-0.0180	0.3659	-2.5680		
37	13.06	-0.05	2.6987	-6.8768	-0.0672	0.3320	-0.0170	0.3787	-2.5482		
38	13.41	-0.05	2.7699	-7.0645	-0.0350	0.2180	-0.0290	0.3714	-2.5504		
39	14.13	-0.02	2.8928	-7.2585	-0.1536	0.4200	-0.0250	0.3697	-2.5092		
40	14.51	-0.04	3.0189	-7.3480	-0.1469	0.3756	-0.0160	0.3615	-2.4536		
41	14.85	-0.03	3.0739	-7.5940	-0.0344	0.1891	-0.0310	0.3563	-2.4705		
42	15.18	-0.01	3.1113	-7.6504	-0.0676	0.3176	-0.0290	0.3525	-2.4589		
43	15.53	-0.05	3.2259	-7.7888	-0.0690	0.3845	-0.0260	0.3491	-2.4145		
44	15.85	-0.04	3.3114	-7.9455	-0.0705	0.3177	-0.0350	0.3435	-2.3995		
45	16.19	-0.05	3.3967	-8.0969	-0.1339	0.3754	-0.0420	0.3369	-2.3838		
46	16.50	-0.04	3.4851	-8.3038	-0.1450	0.4279	-0.0460	0.3284	-2.3826		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	11	1.05	1.7	0.0	BZNOF13	0.0	0	0	0	0
										FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.86	-0.04	3.5799	-8.3595	-0.1176	0.3196	-0.0490	0.3233	-2.3351	
48	17.17	0.03	3.6232	-8.3661	-0.1925	0.3035	-0.0450	0.3315	-2.3366	
49	17.51	0.04	3.7168	-8.5381	-0.0666	0.4342	-0.0450	0.3248	-2.2972	
50	17.82	-0.08	3.7667	-8.6659	-0.0441	0.3427	-0.0530	0.3292	-2.3007	
51	18.85	-0.02	4.0159	-8.8368	-0.0753	0.5783	-0.0640	0.3024	-2.2005	
52	19.18	-0.01	4.1127	-8.8413	-0.1183	0.3486	-0.0490	0.2973	-2.1498	
53	19.51	-0.07	4.1691	-8.8733	-0.1664	0.2849	-0.0540	0.2991	-2.1244	
54	19.85	0.02	4.2089	-8.9761	0.1241	0.3202	-0.0570	0.3094	-2.1326	
55	20.19	-0.03	4.2915	-8.8608	0.0546	0.2925	-0.0960	0.2995	-2.0647	
56	20.52	-0.04	4.4127	-8.9784	-0.0774	0.5103	-0.1050	0.3045	-2.0347	
57	20.87	-0.05	4.5085	-9.0606	-0.1309	0.5102	-0.1150	0.3051	-2.0097	
58	21.21	-0.04	4.5708	-9.1328	-0.0610	0.1494	-0.1020	0.3009	-1.9981	
59	21.51	-0.05	4.6341	-9.2154	-0.1773	0.4672	-0.1140	0.3023	-1.9866	
60	21.85	-0.09	4.6624	-9.1750	-0.0354	0.0965	-0.0910	0.2863	-1.9679	
61	22.15	0.0	4.7526	-9.2103	0.0967	-0.0734	-0.0890	0.2950	-1.9380	
62	22.48	-0.01	4.8670	-9.2294	0.0620	0.0452	-0.1000	0.2760	-1.8963	
63	22.82	-0.06	4.9857	-9.2198	-0.0220	0.0408	-0.0870	0.2650	-1.8492	
64	23.09	-0.09	5.0138	-9.2821	-0.0535	0.0859	-0.0960	0.2653	-1.8513	
65	23.46	-0.04	5.1354	-9.2093	-0.0026	0.2246	-0.0920	0.2484	-1.7933	
66	23.76	-0.04	5.2135	-9.2647	-0.0703	0.5034	-0.1200	0.2441	-1.7770	
67	24.12	-0.10	5.3304	-9.1963	0.0486	-0.0340	-0.0740	0.2170	-1.7253	
68	24.43	-0.07	5.3804	-9.3183	0.0491	0.1472	-0.1000	0.2228	-1.7319	
69	24.74	-0.08	5.4724	-9.2561	0.0077	0.1892	-0.0870	0.2307	-1.6914	
70	25.08	-0.05	5.6360	-9.3122	0.1002	-0.2063	-0.0590	0.2282	-1.6523	
71	25.36	-0.06	5.6976	-9.2564	0.0452	0.2237	-0.1030	0.2117	-1.6246	
72	25.68	-0.08	5.7419	-9.1676	0.0865	-0.1281	-0.0710	0.1940	-1.5966	
73	25.97	-0.05	5.8990	-9.2655	0.1235	-0.0699	-0.0750	0.1962	-1.5707	
74	26.28	-0.09	5.9746	-9.1854	0.0361	-0.0935	-0.0710	0.1843	-1.5374	
75	26.57	-0.07	6.0621	-9.1309	0.0668	-0.0335	-0.0960	0.1850	-1.5062	
76	26.88	-0.07	6.1510	-9.2133	0.0637	0.0168	-0.0660	0.1919	-1.4979	
77	27.22	-0.07	6.3340	-9.1595	0.0756	-0.1038	-0.0800	0.1895	-1.4461	
78	27.55	-0.09	6.4974	-9.2193	0.0566	-0.0982	-0.0520	0.1863	-1.4189	
79	27.86	-0.09	6.5834	-9.0708	0.1377	-0.3467	-0.0310	0.1694	-1.3778	
80	28.18	-0.07	6.6668	-8.9706	0.1043	0.0520	-0.0930	0.1550	-1.3456	
81	28.50	-0.08	6.8031	-8.9474	-0.0699	0.4158	-0.1230	0.1409	-1.3152	
82	28.82	-0.09	6.8955	-8.8848	0.1463	-0.3298	-0.0540	0.1261	-1.2885	
83	29.15	-0.07	7.0974	-8.8935	0.0836	0.1069	-0.0500	0.1100	-1.2531	
84	29.45	0.05	7.0906	-8.7899	0.4681	1.0444	-0.1760	0.0881	-1.2397	
85	29.77	-0.05	7.1524	-8.7755	0.2294	0.0308	-0.0910	0.0933	-1.2269	
86	29.93	-0.02	7.2509	-8.8864	0.1975	0.1425	-0.1150	0.1008	-1.2256	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	11	1.05	1.7	0.0	B2M0F13	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CONF1	CM1	CM1	XCPF1	YCPF1	CONF2	CM2	CM2	XCPF2	YCPF2
1	-2.77	0.0	0.0203	0.0028	-0.0264	0.1368	-1.2973	-0.2155	-0.0249	-0.0948	0.1153	0.4400
2	-2.72	-0.01	0.0283	0.0034	-0.0241	0.1193	-0.8505	-0.1892	-0.0230	-0.0878	0.1214	0.4638
3	-2.06	0.03	0.0346	0.0042	-0.0205	0.1236	-0.6021	-0.1572	-0.0168	-0.0742	0.1194	0.4720
4	-1.47	0.05	0.0278	0.0029	-0.0237	0.1053	-0.8538	-0.1111	-0.0131	-0.0525	0.1176	0.4729
5	-0.91	0.01	0.0170	0.0023	-0.0243	0.1368	-1.4315	-0.0679	-0.0079	-0.0313	0.1161	0.4613
6	-0.36	0.0	0.0381	0.0033	-0.0203	0.0867	-0.5329	-0.0307	-0.0020	-0.0075	0.0636	0.2453
7	0.16	0.01	0.0407	0.0035	-0.0187	0.0848	-0.4604	0.0072	0.0012	0.0026	0.1668	0.3610
8	0.68	-0.01	0.0286	0.0028	-0.0206	0.0971	-0.7192	0.0384	0.0072	0.0244	0.1876	0.6353
9	1.16	-0.03	0.0415	0.0035	-0.0167	0.0832	-0.4017	0.0897	0.0121	0.0440	0.1347	0.4904
10	1.66	0.03	0.0309	0.0033	-0.0159	0.1069	-0.5147	0.1231	0.0152	0.0565	0.1239	0.4592
11	2.14	0.03	0.0341	0.0024	-0.0183	0.0704	-0.5378	0.1669	0.0214	0.0790	0.1282	0.4735
12	2.61	0.04	0.0263	0.0023	-0.0191	0.0856	-0.7276	0.2070	0.0250	0.0904	0.1208	0.4366
13	3.12	0.01	0.0453	0.0023	-0.0187	0.0497	-0.4129	0.2438	0.0291	0.1115	0.1195	0.4571
14	3.57	0.01	0.0368	0.0027	-0.0175	0.0734	-0.4766	0.2980	0.0342	0.1304	0.1149	0.4376
15	4.03	0.0	0.0315	0.0021	-0.0207	0.0667	-0.6573	0.3344	0.0375	0.1473	0.1123	0.4406
16	4.47	0.05	0.0462	0.0021	-0.0149	0.0455	-0.3226	0.3647	0.0384	0.1596	0.1052	0.4377
17	4.94	0.03	0.0367	0.0024	-0.0176	0.0654	-0.4788	0.3942	0.0406	0.1807	0.1030	0.4583
18	5.36	0.02	0.0493	0.0027	-0.0179	0.0922	-0.6122	0.4333	0.0420	0.1937	0.0959	0.4419
19	5.83	-0.01	0.0391	0.0024	-0.0162	0.0614	-0.4136	0.4684	0.0429	0.2120	0.0915	0.4526
20	6.27	-0.04	0.0445	0.0022	-0.0104	0.0489	-0.2331	0.5103	0.0438	0.2277	0.0858	0.4462
21	6.73	-0.01	0.0382	0.0028	-0.0159	0.0727	-0.4155	0.5481	0.0442	0.2437	0.0807	0.4446
22	7.19	0.02	0.0390	0.0037	-0.0137	0.0443	-0.3514	0.5855	0.0442	0.2599	0.0754	0.4439
23	7.58	0.02	0.0525	0.0035	-0.0114	0.0658	-0.2173	0.6182	0.0446	0.2772	0.0721	0.4484
24	8.02	0.05	0.0580	-0.0009	-0.0141	-0.0237	-0.3720	0.6505	0.0445	0.2841	0.0685	0.4367
25	8.44	0.02	0.0096	-0.0001	-0.0161	-0.0078	-1.6772	0.6793	0.0443	0.2979	0.0652	0.4385
26	8.87	0.0	0.0230	-0.0015	-0.0121	-0.0653	-0.5277	0.7036	0.0445	0.3085	0.0633	0.4384
27	9.26	-0.05	0.0099	-0.0018	-0.0126	-0.1819	-1.2728	0.7374	0.0441	0.3264	0.0598	0.4426
28	9.70	-0.04	0.0098	-0.0029	-0.0103	-0.2910	-1.0545	0.7618	0.0455	0.3402	0.0597	0.4466
29	10.09	0.02	0.0050	-0.0040	-0.0123	-0.7955	-2.4668	0.7877	0.0455	0.3481	0.0578	0.4419
30	10.48	-0.05	0.0035	-0.0044	-0.0134	-1.2436	-3.8382	0.8090	0.0460	0.3604	0.0569	0.4455
31	10.86	-0.06	0.0	-0.0051	-0.0125	-0.0051	-0.0125	0.8380	0.0454	0.3679	0.0542	0.4390
32	11.24	0.01	-0.0038	-0.0054	-0.0161	1.4219	4.2280	0.8701	0.0447	0.3815	0.0513	0.4384
33	11.62	-0.02	-0.0085	-0.0060	-0.0145	0.7063	1.7097	0.9002	0.0430	0.3924	0.0478	0.4359
34	11.97	0.02	-0.0069	-0.0069	-0.0142	1.0006	2.0579	0.9154	0.0420	0.4011	0.0459	0.4381
35	12.35	-0.03	0.0018	-0.0079	-0.0088	-4.3777	-4.8890	0.9413	0.0402	0.4068	0.0428	0.4322
36	12.69	-0.01	-0.0089	-0.0077	-0.0151	0.8685	1.8928	0.9550	0.0392	0.4176	0.0410	0.4372
37	13.06	-0.05	-0.0085	-0.0046	-0.0133	1.1301	1.5085	0.9752	0.0392	0.4232	0.0402	0.4340
38	13.41	-0.05	0.0128	-0.0001	-0.0014	-0.0059	-0.1121	0.9014	-0.0001	-0.0004	-0.0536	-0.3096
39	14.13	-0.02	-0.0340	-0.0087	-0.0265	0.2560	0.7803	1.0398	0.0371	0.4491	0.0357	0.4319
40	14.51	-0.04	-0.0149	-0.0127	-0.0152	0.8512	1.2862	1.0531	0.0363	0.4520	0.0344	0.4292
41	14.85	-0.03	-0.0378	-0.0102	-0.0291	0.2700	0.7697	1.0782	0.0359	0.4614	0.0333	0.4280
42	15.18	-0.01	-0.0204	-0.0110	-0.0226	0.5371	1.0783	1.0952	0.0343	0.4704	0.0314	0.4303
43	15.53	-0.05	-0.0420	-0.0126	-0.0255	0.3002	0.6070	1.1158	0.0337	0.4746	0.0302	0.4253
44	15.85	-0.04	-0.0404	-0.0128	-0.0306	0.3176	0.7565	1.1226	0.0324	0.4858	0.0289	0.4328
45	16.19	-0.05	-0.0571	-0.0141	-0.0312	0.2471	0.5469	1.1423	0.0309	0.4929	0.0271	0.4315
46	16.50	-0.04	-0.0614	-0.0140	-0.0374	0.2286	0.6085	1.1720	0.0306	0.5004	0.0261	0.4269

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
b	11	1.05	1.7	0.0	82WOF13	0.0	0	0	0	0	FIXED			
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	16.86	-0.04	-0.0501	-0.0152	-0.0374	0.2702	0.6665	1.1828	0.0294	0.5051	0.0248	0.4270		
48	17.17	0.03	-0.0593	-0.0138	-0.0421	0.2329	0.7093	1.1977	0.0286	0.5138	0.0239	0.4290		
49	17.51	0.04	-0.0594	-0.0136	-0.0394	0.2287	0.6632	1.2204	0.0278	0.5186	0.0228	0.4250		
50	17.82	-0.08	-0.0752	-0.0146	-0.0432	0.1936	0.5739	1.2225	0.0273	0.5227	0.0224	0.4276		
51	18.85	-0.02	-0.0898	-0.0216	-0.0464	0.2398	0.5170	1.2724	0.0241	0.5323	0.0189	0.4184		
52	19.18	-0.01	-0.0785	-0.0158	-0.0484	0.2017	0.6160	1.2664	0.0273	0.5171	0.0216	0.4084		
53	19.51	-0.07	-0.0739	-0.0120	-0.0547	0.1625	0.7392	1.2609	0.0268	0.5212	0.0213	0.4134		
54	19.85	0.02	-0.0909	-0.0159	-0.0523	0.1750	0.5752	1.2655	0.0260	0.5272	0.0202	0.4101		
55	20.19	-0.03	-0.0893	-0.0089	-0.0622	0.1278	0.8974	1.2979	0.0237	0.5288	0.0182	0.4075		
56	20.52	-0.04	-0.1023	-0.0171	-0.0652	0.1674	0.6375	1.3177	0.0237	0.5410	0.0179	0.4106		
57	20.87	-0.05	-0.0689	-0.0120	-0.0649	0.1351	0.7292	1.3363	0.0226	0.5455	0.0169	0.4082		
58	21.21	-0.04	-0.0845	-0.0065	-0.0621	0.1012	0.9627	1.3523	0.0211	0.5439	0.0156	0.4022		
59	21.51	-0.05	-0.0975	-0.0128	-0.0664	0.1310	0.6813	1.3544	0.0216	0.5561	0.0159	0.4106		
60	21.85	-0.09	-0.0254	-0.0014	-0.0548	0.0561	2.1560	1.3566	0.0189	0.5529	0.0139	0.4076		
61	22.15	0.0	-0.0194	-0.0025	-0.0509	0.1277	2.6219	1.3747	0.0179	0.5569	0.0131	0.4051		
62	22.46	-0.01	-0.0111	-0.0005	-0.0489	0.0406	4.4053	1.3777	0.0157	0.5525	0.0114	0.4028		
63	22.82	-0.06	-0.0092	-0.0008	-0.0458	0.0816	4.9745	1.3876	0.0158	0.5601	0.0114	0.4037		
64	23.09	-0.09	-0.0226	-0.0032	-0.0513	0.1428	2.2668	1.3906	0.0152	0.5592	0.0109	0.4021		
65	23.46	-0.04	-0.0821	-0.0138	-0.0608	0.1682	0.7400	1.3936	0.0149	0.5676	0.0107	0.4073		
66	23.76	-0.04	-0.0733	-0.0123	-0.0590	0.1679	0.8039	1.4130	0.0140	0.5697	0.0099	0.4032		
67	24.12	-0.10	-0.0090	-0.0020	-0.0376	0.2168	4.1777	1.4078	0.0099	0.5716	0.0070	0.4061		
68	24.43	-0.07	-0.0208	-0.0041	-0.0432	0.1984	2.0736	1.4275	0.0103	0.5775	0.0072	0.4046		
69	24.74	-0.08	0.0096	0.0010	-0.0284	0.1016	-2.9585	1.4417	0.0075	0.5730	0.0052	0.3975		
70	25.08	-0.05	0.0460	0.0037	-0.0098	0.0799	-0.2124	1.4505	0.0070	0.5846	0.0048	0.4030		
71	25.36	-0.06	-0.0024	-0.0026	-0.0353	1.0944	14.7082	1.4582	0.0074	0.5900	0.0051	0.4046		
72	25.68	-0.08	0.0415	0.0001	-0.0142	0.0018	-0.3415	1.4658	0.0077	0.5922	0.0053	0.4040		
73	25.97	-0.05	0.0474	0.0001	-0.0202	0.0016	-0.4263	1.4897	0.0057	0.5983	0.0038	0.4017		
74	26.28	-0.09	0.0877	0.0048	-0.0004	0.0548	-0.0043	1.4842	0.0042	0.5997	0.0028	0.4041		
75	26.57	-0.07	0.0260	0.0007	-0.0190	0.0260	-0.7322	1.4863	0.0051	0.6000	0.0034	0.4037		
76	26.88	-0.07	0.0473	0.0006	-0.0061	0.0127	-0.1298	1.5028	0.0030	0.6053	0.0020	0.4028		
77	27.22	-0.07	0.0050	0.0013	-0.0302	0.2552	-6.0268	1.5128	0.0032	0.6091	0.0021	0.4026		
78	27.55	-0.09	0.0618	0.0015	-0.0114	0.0243	-0.1846	1.5321	0.0018	0.6125	0.0012	0.3998		
79	27.86	-0.09	0.1026	0.0041	0.0132	0.0395	0.1283	1.5230	0.0031	0.6132	0.0000	0.4026		
80	28.18	-0.07	0.0198	-0.0017	-0.0197	-0.0834	-0.9951	1.5204	0.0025	0.6167	0.0016	0.4056		
81	28.50	-0.08	0.0251	0.0006	-0.0117	0.0239	-0.4676	1.5261	-0.0008	0.6170	-0.0005	0.4043		
82	28.82	-0.09	0.0662	0.0011	-0.0010	0.0170	-0.0157	1.5369	-0.0011	0.6194	-0.0007	0.4030		
83	29.15	-0.07	0.0621	-0.0026	0.0025	-0.0423	0.0401	1.5383	-0.0015	0.6237	-0.0010	0.4054		
84	29.45	0.05	-0.1282	-0.0122	-0.0546	0.0949	0.7384	1.5383	-0.0021	0.6177	-0.0014	0.4015		
85	29.77	-0.05	0.0379	-0.0036	-0.0042	-0.0950	-0.1101	1.5443	-0.0036	0.6165	-0.0023	0.3992		
86	29.93	-0.02	-0.0009	-0.0038	-0.0358	4.1693	39.7776	1.5480	-0.0029	0.6246	-0.0019	0.4035		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RAIO-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	11	1.05	1.7	0.0	BZMQF13	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.0	0.0084	0.0023	0.0125	0.2770	1.4880	-0.2567	-0.0255	-0.0697	0.0991	0.2716
2	-2.72	-0.01	0.0012	0.0027	0.0150	2.2514	12.4999	-0.2569	-0.0240	-0.0619	0.0932	0.2409
3	-2.06	0.03	0.0130	0.0032	0.0155	0.2482	1.1948	-0.2076	-0.0191	-0.0475	0.0922	0.2286
4	-1.47	0.05	0.0146	0.0029	0.0149	0.2005	1.0181	-0.1535	-0.0137	-0.0253	0.0895	0.1650
5	-0.91	0.01	0.0078	0.0030	0.0152	0.3849	1.9486	-0.1100	-0.0090	-0.0050	0.0819	0.0457
6	-0.36	0.0	0.0049	0.0033	0.0154	0.6739	3.1495	-0.0715	-0.0047	0.0103	0.0661	-0.1437
7	0.16	0.01	0.0034	0.0032	0.0166	0.9491	4.9509	-0.0411	-0.0014	0.0242	0.0329	-0.5889
8	0.68	-0.01	0.0088	0.0032	0.0168	0.3667	1.9128	0.0081	0.0045	0.0464	0.5559	5.7283
9	1.16	-0.03	0.0141	0.0034	0.0162	0.2395	1.1488	0.0433	0.0084	0.0663	0.1941	1.5295
10	1.66	0.03	0.0072	0.0038	0.0169	0.5212	2.3471	0.0828	0.0128	0.0821	0.1541	0.9914
11	2.14	0.03	0.0058	0.0038	0.0166	0.6599	2.8677	0.1297	0.0182	0.1031	0.1407	0.7954
12	2.61	0.04	0.0110	0.0042	0.0165	0.3821	1.4969	0.1629	0.0217	0.1194	0.1332	0.7331
13	3.12	0.01	0.0121	0.0044	0.0175	0.3659	1.4820	0.1942	0.0261	0.1374	0.1346	0.7072
14	3.57	0.01	0.0092	0.0047	0.0185	0.5057	2.0071	0.2382	0.0297	0.1564	0.1245	0.6566
15	4.03	0.0	0.0190	0.0043	0.0165	0.2251	0.8911	0.2857	0.0331	0.1764	0.1159	0.6176
16	4.47	0.05	0.0167	0.0054	0.0210	0.3236	1.2554	0.3165	0.0348	0.1867	0.1099	0.5899
17	4.94	0.03	0.0159	0.0048	0.0192	0.3021	1.2074	0.3664	0.0357	0.2038	0.0973	0.5563
18	5.36	0.02	0.0250	0.0053	0.0197	0.2101	0.7392	0.4030	0.0371	0.2265	0.0920	0.5621
19	5.83	-0.01	0.0196	0.0053	0.0202	0.2680	1.0322	0.4310	0.0378	0.2421	0.0878	0.5616
20	6.27	-0.04	0.0273	0.0059	0.0217	0.2144	0.7948	0.4735	0.0386	0.2571	0.0815	0.5431
21	6.70	-0.01	0.0172	0.0051	0.0186	0.2467	1.0832	0.5167	0.0387	0.2716	0.0750	0.5257
22	7.14	0.02	0.0191	0.0060	0.0229	0.3143	1.1971	0.5540	0.0395	0.2929	0.0713	0.5286
23	7.58	0.02	0.0159	0.0065	0.0251	0.4059	1.5785	0.5909	0.0397	0.3104	0.0672	0.5252
24	8.02	0.05	0.0267	0.0065	0.0250	0.2417	0.9362	0.6216	0.0390	0.3191	0.0627	0.5133
25	8.44	0.02	0.0089	0.0050	0.0212	0.5650	2.3782	0.6493	0.0385	0.3347	0.0593	0.5155
26	8.87	0.0	0.0278	0.0068	0.0255	0.2457	0.9303	0.6832	0.0379	0.3452	0.0555	0.5053
27	9.26	-0.05	0.0254	0.0065	0.0243	0.2541	0.9553	0.7167	0.0378	0.3602	0.0527	0.5026
28	9.70	-0.04	0.0110	0.0061	0.0229	0.5526	2.0787	0.7336	0.0381	0.3707	0.0520	0.5053
29	10.09	0.02	0.0238	0.0070	0.0258	0.2932	1.0853	0.7741	0.0381	0.3890	0.0492	0.5025
30	10.48	-0.05	0.0202	0.0068	0.0235	0.3344	1.1649	0.7994	0.0387	0.4023	0.0485	0.5032
31	10.86	-0.06	0.0274	0.0079	0.0273	0.2876	0.9974	0.8258	0.0384	0.4127	0.0466	0.4998
32	11.24	0.01	0.0242	0.0069	0.0236	0.2853	0.9737	0.8590	0.0378	0.4229	0.0441	0.4923
33	11.62	-0.02	0.0164	0.0069	0.0268	0.3752	1.4562	0.8693	0.0362	0.4326	0.0416	0.4977
34	11.97	0.02	0.0151	0.0059	0.0232	0.3926	1.5385	0.9056	0.0348	0.4409	0.0385	0.4869
35	12.35	-0.03	0.0325	0.0082	0.0281	0.2517	0.8655	0.9222	0.0336	0.4513	0.0364	0.4893
36	12.69	-0.01	0.0325	0.0077	0.0279	0.2378	0.8594	0.9394	0.0328	0.4567	0.0349	0.4862
37	13.06	-0.05	0.0310	0.0079	0.0284	0.2542	0.9171	0.9647	0.0327	0.4644	0.0339	0.4814
38	13.41	-0.05	-0.0056	0.0062	0.0015	-0.0268	-0.2739	0.0028	0.0001	-0.0015	0.0268	-0.5239
39	14.13	-0.02	0.0172	0.0062	0.0252	0.3578	1.4669	1.0157	0.0338	0.4891	0.0303	0.4816
40	14.51	-0.04	0.0309	0.0077	0.0282	0.2502	0.9125	1.0421	0.0298	0.5004	0.0286	0.4802
41	14.85	-0.03	0.0413	0.0095	0.0360	0.2290	0.8707	1.0493	0.0288	0.5083	0.0274	0.4844
42	15.18	-0.01	0.0215	0.0072	0.0307	0.3351	1.4262	1.0696	0.0282	0.5099	0.0263	0.4767
43	15.53	-0.05	0.0288	0.0081	0.0337	0.2814	1.1700	1.0917	0.0268	0.5207	0.0246	0.4769
44	15.85	-0.04	0.0279	0.0075	0.0327	0.2690	1.1719	1.1081	0.0250	0.5275	0.0226	0.4761
45	16.19	-0.05	0.0403	0.0094	0.0353	0.2328	0.8766	1.1356	0.0237	0.5378	0.0209	0.4736
46	16.50	-0.04	0.0505	0.0098	0.0383	0.1947	0.7590	1.1557	0.0220	0.5482	0.0190	0.4743

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		PACH RA 10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		11 1.05 1.7		0.0	B2W0F13	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPE3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.86	-0.04	0.0517	0.0099	0.0384	0.1916	0.7433	1.1784	0.0208	0.5556	0.0176	0.4714
48	17.17	0.03	0.0323	0.0092	0.0354	0.2835	1.0948	1.1845	0.0200	0.5609	0.0169	0.4735
49	17.51	0.04	0.0441	0.0092	0.0373	0.2093	0.8457	1.2068	0.0200	0.5657	0.0166	0.4688
50	17.82	-0.08	0.0386	0.0090	0.0388	0.2333	1.0062	1.2109	0.0200	0.5698	0.0165	0.4705
51	18.87	-0.02	0.0473	0.0099	0.0424	0.2094	0.8956	1.2460	0.0232	0.5822	0.0186	0.4672
52	19.18	-0.01	0.0491	0.0096	0.0395	0.1956	0.8118	1.2613	0.0228	0.5836	0.0181	0.4627
53	19.51	-0.07	0.0648	0.0107	0.0411	0.1656	0.6341	1.2667	0.0227	0.5851	0.0179	0.4619
54	19.85	0.02	0.0497	0.0087	0.0376	0.1752	0.7557	1.2872	0.0209	0.5907	0.0162	0.4589
55	20.19	-0.03	0.0536	0.0107	0.0436	0.1988	0.8127	1.2350	0.0202	0.5570	0.0164	0.4510
56	20.52	-0.04	0.0595	0.0102	0.0421	0.1715	0.7080	1.2672	0.0170	0.5661	0.0134	0.4468
57	20.87	-0.05	0.0559	0.0113	0.0447	0.2014	0.7933	1.2708	0.0167	0.5683	0.0132	0.4472
58	21.21	-0.04	0.0605	0.0109	0.0412	0.1759	0.6803	1.2721	0.0158	0.5684	0.0124	0.4468
59	21.51	-0.05	0.0569	0.0101	0.0415	0.1781	0.7286	1.2910	0.0142	0.5714	0.0110	0.4426
60	21.85	-0.09	0.0522	0.0105	0.0435	0.2013	0.8332	1.2803	0.0134	0.5677	0.0104	0.4434
61	22.15	0.0	0.0468	0.0104	0.0440	0.2229	0.9401	1.2795	0.0125	0.5736	0.0097	0.4483
62	22.48	-0.01	0.0594	0.0116	0.0455	0.1958	0.7659	1.2832	0.0097	0.5725	0.0075	0.4461
63	22.82	-0.06	0.0630	0.0122	0.0474	0.1930	0.7523	1.3061	0.0086	0.5753	0.0066	0.4405
64	23.09	-0.09	0.0581	0.0115	0.0457	0.1576	0.7859	1.3029	0.0077	0.5782	0.0059	0.4438
65	23.46	-0.04	0.0455	0.0102	0.0441	0.2243	0.9684	1.3275	0.0047	0.5836	0.0035	0.4396
66	23.76	-0.04	0.0640	0.0107	0.0451	0.1665	0.7035	1.3303	0.0039	0.5845	0.0029	0.4393
67	24.12	-0.10	0.0651	0.0115	0.0444	0.1764	0.6819	1.3327	0.0037	0.5865	0.0028	0.4400
68	24.43	-0.07	0.0634	0.0115	0.0486	0.1811	0.7654	1.3348	0.0029	0.5924	0.0021	0.4438
69	24.74	-0.08	0.0712	0.0119	0.0494	0.1665	0.6928	1.3535	0.0026	0.5925	0.0019	0.4377
70	25.08	-0.05	0.0567	0.0119	0.0481	0.2091	0.8482	1.3483	0.0018	0.5987	0.0013	0.4440
71	25.35	-0.06	0.0662	0.0118	0.0473	0.1780	0.7139	1.3681	0.0008	0.6047	0.0005	0.4420
72	25.68	-0.08	0.0758	0.0134	0.0508	0.1772	0.6696	1.3649	0.0002	0.6041	0.0001	0.4426
73	25.97	-0.05	0.0686	0.0115	0.0493	0.1728	0.7181	1.3852	-0.0008	0.6091	-0.0006	0.4398
74	26.28	-0.09	0.0714	0.0119	0.0476	0.1661	0.6665	1.3739	-0.0010	0.6124	-0.0007	0.4457
75	26.57	-0.07	0.0664	0.0125	0.0517	0.1876	0.7775	1.3831	-0.0020	0.6112	-0.0015	0.4419
76	26.88	-0.07	0.0651	0.0115	0.0455	0.1764	0.6988	1.3976	-0.0024	0.6193	-0.0017	0.4431
77	27.22	-0.07	0.0734	0.0131	0.0499	0.1789	0.6793	1.3993	-0.0033	0.6256	-0.0024	0.4471
78	27.55	-0.09	0.0611	0.0113	0.0477	0.1842	0.7800	1.4210	-0.0042	0.6275	-0.0030	0.4416
79	27.86	-0.09	0.0654	0.0120	0.0514	0.1836	0.7858	1.4068	-0.0047	0.6249	-0.0034	0.4442
80	28.18	-0.07	0.0686	0.0117	0.0493	0.1707	0.7181	1.4145	-0.0063	0.6220	-0.0045	0.4397
81	28.50	-0.08	0.0614	0.0107	0.0455	0.1736	0.7404	1.4048	-0.0064	0.6266	-0.0045	0.4460
82	28.82	-0.09	0.0704	0.0130	0.0533	0.1844	0.7365	1.4000	-0.0083	0.6215	-0.0059	0.4439
83	29.15	-0.07	0.0586	0.0113	0.0484	0.1921	0.8247	1.4118	-0.0103	0.6216	-0.0073	0.4403
84	29.45	0.05	0.0717	0.0119	0.0502	0.1654	0.7000	1.4032	-0.0110	0.6226	-0.0079	0.4437
85	29.77	-0.05	0.0627	0.0112	0.0492	0.1783	0.7846	1.4047	-0.0113	0.6156	-0.0081	0.4383
86	29.93	-0.02	0.0714	0.0125	0.0507	0.1755	0.7100	1.4094	-0.0118	0.6231	-0.0084	0.4421

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	12	1.10	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.76	0.02	-0.5147	1.5405	-0.0177	0.0388	-0.0060	0.3525	-2.9928	
2	-2.52	0.03	-0.4869	1.4256	-0.0548	0.1267	-0.0010	0.3558	-2.9277	
3	-1.90	0.09	-0.3786	1.0729	-0.0562	0.1697	-0.0010	0.3488	-2.8342	
4	-1.35	0.03	-0.2499	0.7548	0.0894	0.1188	-0.0060	0.3482	-3.0206	
5	-0.78	0.03	-0.1575	0.4414	0.0213	0.0932	-0.0040	0.3481	-2.8032	
6	-0.27	0.02	-0.0319	0.0806	0.0355	0.0853	-0.0070	0.3476	-2.5285	
7	0.28	0.02	0.0747	-0.2096	0.0134	0.0442	-0.0040	0.3564	-2.8056	
8	0.79	0.03	0.1810	-0.4823	0.0621	0.0101	-0.0070	0.3490	-2.6652	
9	1.29	0.05	0.2517	-0.7623	0.0488	-0.0223	0.0	0.3470	-3.0289	
10	1.77	0.02	0.3707	-1.0178	-0.0252	0.1133	-0.0100	0.3483	-2.7461	
11	2.25	0.0	0.4587	-1.3391	-0.0027	0.0898	-0.0070	0.3452	-2.9192	
12	2.74	0.03	0.5629	-1.6250	0.1041	-0.0487	-0.0090	0.3509	-2.8938	
13	3.20	-0.01	0.6749	-1.9487	0.0428	-0.0469	-0.0040	0.3451	-2.8674	
14	3.68	-0.03	0.7895	-2.2381	-0.2255	0.2247	-0.0070	0.3542	-2.8349	
15	4.11	0.03	0.8543	-2.4728	0.0175	0.0565	-0.0070	0.3611	-2.8946	
16	4.56	0.03	0.9170	-2.6636	0.0141	0.2852	-0.0040	0.3619	-2.9047	
17	5.03	-0.01	1.0480	-2.9979	-0.1507	0.0890	-0.0020	0.3658	-2.8607	
18	5.45	0.04	1.1272	-3.2078	-0.0157	0.0560	-0.0060	0.3572	-2.8459	
19	5.89	-0.01	1.2516	-3.5421	-0.0175	0.0255	-0.0040	0.3778	-2.8299	
20	6.34	0.03	1.2835	-3.7017	-0.0176	0.2366	-0.0090	0.3655	-2.8840	
21	6.82	0.02	1.4365	-3.9469	0.0056	0.1271	-0.0030	0.3835	-2.7475	
22	7.26	0.03	1.4420	-4.1115	-0.0116	0.0232	-0.0100	0.3534	-2.8513	
23	7.66	-0.06	1.5775	-4.4432	0.0673	0.0558	-0.0030	0.3821	-2.8166	
24	8.13	-0.05	1.6771	-4.6726	-0.0842	0.2448	-0.0080	0.3882	-2.7662	
25	8.56	0.04	1.7143	-4.7227	0.0812	0.0933	-0.0100	0.3914	-2.7549	
26	8.98	-0.01	1.8504	-4.9472	-0.0286	0.2620	-0.0110	0.3852	-2.6736	
27	9.35	0.02	1.9429	-5.2618	-0.0520	0.1538	-0.0050	0.3942	-2.7082	
28	9.77	-0.02	2.0224	-5.3941	-0.0844	0.1061	-0.0020	0.4004	-2.6671	
29	10.15	-0.02	2.0717	-5.4961	-0.3002	0.3512	-0.0120	0.3884	-2.6529	
30	10.58	-0.02	2.0965	-5.6088	-0.0209	0.2062	-0.0100	0.3987	-2.6753	
31	10.96	-0.04	2.2283	-5.8703	0.0594	0.0928	-0.0110	0.3924	-2.6344	
32	11.35	-0.01	2.2881	-5.8840	-0.1358	0.2701	-0.0070	0.3954	-2.5716	
33	11.70	-0.05	2.3154	-6.0112	-0.1679	0.2890	-0.0180	0.4081	-2.5962	
34	12.09	-0.05	2.4321	-6.1845	-0.0940	0.1536	-0.0090	0.3964	-2.5429	
35	12.43	-0.04	2.4780	-6.3408	-0.0739	0.2804	-0.0110	0.3966	-2.5589	
36	12.81	0.02	2.6198	-6.4993	0.0660	0.2746	-0.0180	0.3983	-2.4809	
37	13.14	-0.04	2.6099	-6.6134	-0.0723	0.3092	-0.0130	0.3830	-2.5340	
38	13.52	0.0	2.6878	-6.6596	-0.0744	0.3191	-0.0260	0.3824	-2.4777	
39	13.84	0.01	2.7971	-6.8866	-0.1300	0.3630	-0.0220	0.3824	-2.4620	
40	14.22	-0.05	2.8966	-7.0039	-0.2020	0.3488	-0.0310	0.3771	-2.4179	
41	14.59	-0.01	2.9464	-7.0536	-0.0883	0.2116	-0.0360	0.3774	-2.3940	
42	14.92	-0.03	3.0184	-7.2644	-0.1521	0.2129	-0.0290	0.3646	-2.4067	
43	15.29	0.0	3.0554	-7.2952	-0.0130	0.2792	-0.0400	0.3686	-2.3876	
44	15.60	-0.04	3.1724	-7.3890	-0.1137	0.4931	-0.0460	0.3559	-2.3291	
45	15.96	-0.05	3.2261	-7.5161	-0.0479	0.3410	-0.0470	0.3524	-2.3298	
46	16.28	-0.06	3.2899	-7.6344	-0.1168	0.3355	-0.0500	0.3579	-2.3206	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.10	1.7	0.0	B2M0F13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.62	-0.01	3.4576	-7.7603	-0.1746	0.4064	-0.0530	0.3577	-2.2461	
48	16.96	-0.05	3.4566	-7.6959	-0.0396	0.2244	-0.0640	0.3693	-2.2276	
49	17.26	-0.01	3.5597	-7.9252	-0.1364	0.4209	-0.0570	0.3543	-2.2264	
50	17.61	-0.01	3.6680	-8.0208	-0.1271	0.4129	-0.0560	0.3476	-2.1867	
51	17.93	-0.06	3.7662	-8.1603	0.0224	0.4556	-0.0640	0.3439	-2.1667	
52	18.28	-0.07	3.8081	-8.2980	-0.1055	0.4126	-0.0680	0.3447	-2.1790	
53	18.61	-0.07	3.8855	-8.3223	-0.1191	0.3517	-0.0610	0.3371	-2.1419	
54	18.96	-0.01	3.9785	-8.3525	-0.0141	0.4307	-0.0650	0.3323	-2.0994	
55	19.28	-0.03	4.0402	-8.3829	-0.1158	0.4681	-0.0650	0.3408	-2.0749	
56	19.63	-0.04	4.1740	-8.4912	-0.0712	0.3816	-0.0910	0.3350	-2.0343	
57	19.96	-0.06	4.2784	-8.4855	-0.0472	0.6140	-0.0850	0.3417	-1.9833	
58	20.30	-0.10	4.3392	-8.5386	-0.0566	0.3332	-0.0740	0.3375	-1.9678	
59	20.63	-0.07	4.4098	-8.5454	-0.0804	0.4909	-0.0950	0.3381	-1.9378	
60	20.94	-0.06	4.4948	-8.6434	0.2066	0.2147	-0.0910	0.3283	-1.9230	
61	21.32	-0.10	4.5486	-8.5178	0.0490	0.3925	-0.1100	0.3311	-1.8726	
62	21.63	-0.04	4.6345	-8.5370	-0.0164	0.2759	-0.1230	0.3296	-1.8421	
63	21.96	-0.07	4.6784	-8.5435	0.0188	0.0207	-0.1040	0.3215	-1.8262	
64	22.26	-0.07	4.7811	-8.6173	0.0713	0.0202	-0.1080	0.3044	-1.8024	
65	22.56	-0.08	4.8057	-8.6767	0.0608	0.0079	-0.1050	0.2934	-1.8055	
66	22.89	-0.06	4.9102	-8.6810	-0.0493	0.5719	-0.1290	0.2661	-1.7680	
67	23.23	-0.08	5.0365	-8.6619	0.0415	0.3249	-0.1050	0.2582	-1.7198	
68	23.54	-0.10	5.0779	-8.6319	-0.0406	0.0918	-0.0870	0.2374	-1.6999	
69	23.90	-0.07	5.2137	-8.6850	0.0497	-0.0566	-0.0300	0.2472	-1.6658	
70	24.23	-0.06	5.3879	-8.7199	0.0844	-0.1221	-0.0760	0.2559	-1.6184	
71	24.55	-0.07	5.5046	-8.7173	0.0645	-0.1323	-0.0340	0.2624	-1.5836	
72	24.89	-0.08	5.5235	-8.6977	-0.1046	0.2414	-0.1120	0.2606	-1.5747	
73	25.18	-0.07	5.6279	-8.6189	0.1038	0.0057	-0.1050	0.2840	-1.5315	
74	25.48	-0.09	5.7304	-8.6704	0.1815	-0.2331	-0.0850	0.2741	-1.5131	
75	25.79	-0.07	5.8079	-8.5681	-0.0320	0.2078	-0.1070	0.2642	-1.4752	
76	26.10	-0.08	5.9479	-8.5641	0.0551	-0.0451	-0.1030	0.2447	-1.4398	
77	26.37	-0.08	5.9323	-8.6372	-0.0509	0.0643	-0.0700	0.2304	-1.4560	
78	26.67	-0.10	6.0287	-8.6902	0.2585	-0.7708	-0.0320	0.2062	-1.4415	
79	27.00	-0.09	6.1009	-8.5533	0.1690	-0.3726	-0.0430	0.1907	-1.4020	
80	27.33	-0.07	6.2682	-8.6255	0.1846	-0.1654	-0.0590	0.1975	-1.3761	
81	27.64	-0.05	6.4687	-8.6262	0.1993	-0.2730	-0.0580	0.1859	-1.3335	
82	27.97	-0.07	6.6840	-8.7487	0.1759	-0.6212	-0.0300	0.1990	-1.3089	
83	28.27	-0.08	6.7685	-8.6850	0.0955	-0.0807	-0.0600	0.2134	-1.2831	
84	28.61	-0.05	6.8678	-8.6780	0.3745	-0.4322	-0.0530	0.1939	-1.2636	
85	28.92	-0.03	6.9640	-8.6417	0.1568	0.0315	-0.0680	0.1905	-1.2409	
86	29.26	-0.08	7.0802	-8.7094	0.2238	-0.4473	-0.0440	0.1779	-1.2301	
87	29.58	-0.09	7.1767	-8.6545	-0.0010	-0.4825	-0.0140	0.1826	-1.2059	
88	29.82	-0.14	7.1587	-8.6743	-0.0501	-1.2367	-0.0290	0.1528	-1.2117	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	12	1.10	1.7	0.0	B2W0F13	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.76	0.02	0.0308	0.0008	-0.0221	0.0244	-0.7187	-0.2187	-0.0232	-0.0946	0.1061	0.4325
2	-2.52	0.03	0.0257	0.0008	-0.0217	0.0292	-0.8458	-0.2148	-0.0221	-0.0890	0.1028	0.4143
3	-1.90	0.09	0.0229	0.0006	-0.0198	0.0262	-0.8633	-0.1734	-0.0176	-0.0653	0.1013	0.3765
4	-1.35	0.03	0.0277	0.0002	-0.0212	0.0081	-0.7643	-0.1110	-0.0128	-0.0511	0.1157	0.4604
5	-0.78	0.03	0.0265	-0.0002	-0.0255	-0.0057	-0.9611	-0.0789	-0.0078	-0.0268	0.0989	0.3396
6	-0.27	0.02	0.0215	0.0003	-0.0206	0.0140	-0.9598	-0.0311	-0.0024	-0.0068	0.0772	0.2175
7	0.28	0.02	0.0319	0.0011	-0.0174	0.0353	-0.5445	0.0133	0.0023	0.0133	0.1749	1.0024
8	0.79	0.03	0.0382	0.0009	-0.0201	0.0236	-0.5254	0.0582	0.0078	0.0318	0.1341	0.5463
9	1.29	0.05	0.0470	0.0016	-0.0149	0.0335	-0.3178	0.0962	0.0119	0.0483	0.1242	0.5028
10	1.77	0.02	0.0404	0.0009	-0.0173	0.0223	-0.4292	0.1230	0.0159	0.0650	0.1295	0.5285
11	2.25	0.0	0.0319	0.0008	-0.0196	0.0259	-0.6135	0.1572	0.0194	0.0770	0.1237	0.4898
12	2.74	0.03	0.0345	0.0017	-0.0134	0.0317	-0.2466	0.1998	0.0244	0.1028	0.1221	0.5145
13	3.20	-0.01	0.0582	0.0016	-0.0153	0.0271	-0.2630	0.2514	0.0287	0.1252	0.1141	0.4980
14	3.68	-0.03	0.0329	0.0001	-0.0240	0.0023	-0.7276	0.2917	0.0312	0.1374	0.1068	0.4711
15	4.11	0.03	0.0402	0.0008	-0.0154	0.0205	-0.3832	0.3268	0.0333	0.1521	0.1020	0.4655
16	4.56	0.03	0.0311	0.0003	-0.0173	0.0097	-0.5975	0.3601	0.0343	0.1609	0.0953	0.4469
17	5.03	-0.01	0.0352	0.0002	-0.0206	0.0064	-0.5844	0.3986	0.0369	0.1802	0.0931	0.4543
18	5.45	0.04	0.0614	0.0004	-0.0103	0.0061	-0.1684	0.4297	0.0379	0.1976	0.0882	0.4599
19	5.89	-0.01	0.0419	-0.0002	-0.0182	-0.0054	-0.4353	0.4845	0.0388	0.2163	0.0801	0.4464
20	6.34	0.03	0.0348	-0.0008	-0.0173	-0.0237	-0.4972	0.5150	0.0391	0.2310	0.0760	0.4486
21	6.82	0.02	0.0395	-0.0010	-0.0145	-0.0247	-0.3681	0.5385	0.0394	0.2455	0.0732	0.4558
22	7.26	0.03	0.0353	-0.0011	-0.0131	-0.0319	-0.3722	0.5709	0.0408	0.2537	0.0715	0.4443
23	7.66	-0.06	0.0375	-0.0012	-0.0114	-0.0320	-0.3041	0.6189	0.0403	0.2758	0.0651	0.4456
24	8.13	-0.05	0.0316	-0.0014	-0.0157	-0.0427	-0.4959	0.6398	0.0400	0.2841	0.0625	0.4441
25	8.56	0.04	0.0208	-0.0021	-0.0154	-0.1010	-0.7389	0.6613	0.0393	0.2947	0.0595	0.4456
26	8.98	-0.01	0.0283	-0.0029	-0.0123	-0.1008	-0.4336	0.6971	0.0393	0.3086	0.0564	0.4427
27	9.35	0.02	0.0237	-0.0029	-0.0160	-0.1235	-0.6752	0.7288	0.0393	0.3262	0.0540	0.4476
28	9.77	-0.02	0.0337	-0.0038	-0.0131	-0.1113	-0.3879	0.7531	0.0392	0.3334	0.0520	0.4427
29	10.15	-0.02	0.0118	-0.0032	-0.0224	-0.2671	-1.8956	0.7676	0.0392	0.3440	0.0511	0.4482
30	10.58	-0.02	0.0231	-0.0045	-0.0143	-0.1949	-0.6192	0.7961	0.0385	0.3519	0.0484	0.4420
31	10.96	-0.04	0.0125	-0.0053	-0.0164	-0.4263	-1.3148	0.8188	0.0381	0.3636	0.0465	0.4440
32	11.35	-0.01	0.0142	-0.0039	-0.0188	-0.2748	-1.3217	0.8227	0.0379	0.3690	0.0461	0.4485
33	11.70	-0.05	0.0140	-0.0053	-0.0188	-0.3752	-1.3454	0.8547	0.0376	0.3775	0.0440	0.4417
34	12.09	-0.05	0.0134	-0.0071	-0.0198	-0.5264	-1.4802	0.8854	0.0367	0.3849	0.0415	0.4347
35	12.43	-0.04	0.0068	-0.0086	-0.0182	-1.2581	-2.6815	0.9054	0.0364	0.3949	0.0402	0.4362
36	12.81	0.02	-0.0017	-0.0086	-0.0209	5.0767	12.2744	0.9434	0.0354	0.4071	0.0375	0.4315
37	13.14	-0.04	0.0064	-0.0098	-0.0164	-1.5361	-2.5574	0.9445	0.0348	0.4122	0.0369	0.4364
38	13.52	0.0	-0.0031	-0.0075	-0.0298	2.4209	9.6235	0.9627	0.0341	0.4193	0.0354	0.4356
39	13.84	0.01	-0.0112	-0.0104	-0.0287	0.9314	2.5654	0.9855	0.0333	0.4340	0.0338	0.4403
40	14.22	-0.05	-0.0118	-0.0113	-0.0315	0.9603	2.7061	1.0020	0.0332	0.4374	0.0331	0.4365
41	14.59	-0.01	-0.0236	-0.0128	-0.0288	0.5438	1.2188	1.0178	0.0321	0.4427	0.0316	0.4350
42	14.92	-0.03	-0.0151	-0.0102	-0.0355	0.6759	2.3465	1.0337	0.0319	0.4513	0.0309	0.4366
43	15.29	0.0	-0.0314	-0.0118	-0.0365	0.3752	1.1740	1.0655	0.0309	0.4556	0.0290	0.4276
44	15.60	-0.04	-0.0434	-0.0140	-0.0377	0.3234	0.8678	1.0834	0.0302	0.4668	0.0279	0.4290
45	15.96	-0.05	-0.0270	-0.0137	-0.0382	0.5059	1.4147	1.0999	0.0289	0.4721	0.0263	0.4292
46	16.28	-0.06	-0.0366	-0.0128	-0.0438	0.3506	1.1966	1.1137	0.0287	0.4775	0.0258	0.4287

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	12	1.10	1.7	0.0	B2M0F13	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNFI	CHI	CBI	XCPF1	YCPF1	CN2	CH2	CB2	XCPF2	YCPF2
47	16.62	-0.01	-0.0510	-0.0158	-0.0418	0.3105	0.8195	1.1378	0.0255	0.4875	0.0224	0.4284
48	16.96	-0.05	-0.0565	-0.0142	-0.0445	0.2510	0.7863	1.1431	0.0263	0.4887	0.0230	0.4275
49	17.26	-0.01	-0.0697	-0.0165	-0.0466	0.2369	0.6675	1.1698	0.0232	0.4990	0.0198	0.4265
50	17.61	-0.01	-0.0677	-0.0172	-0.0493	0.2539	0.7276	1.1894	0.0225	0.5030	0.0189	0.4229
51	17.93	-0.06	-0.0812	-0.0197	-0.0503	0.2421	0.6189	1.2023	0.0215	0.5087	0.0179	0.4231
52	18.28	-0.07	-0.0773	-0.0173	-0.0537	0.2243	0.6941	1.2137	0.0211	0.5152	0.0174	0.4245
53	18.61	-0.07	-0.0766	-0.0167	-0.0527	0.2175	0.6870	1.2297	0.0204	0.5180	0.0166	0.4213
54	18.96	-0.01	-0.0870	-0.0189	-0.0576	0.2174	0.6620	1.2306	0.0206	0.5180	0.0168	0.4209
55	19.28	-0.03	-0.0616	-0.0109	-0.0556	0.1767	0.9014	1.2437	0.0203	0.5246	0.0163	0.4218
56	19.63	-0.04	-0.0755	-0.0134	-0.0639	0.1769	0.8458	1.2556	0.0197	0.5285	0.0157	0.4210
57	19.96	-0.06	-0.0881	-0.0152	-0.0680	0.1721	0.7714	1.2723	0.0192	0.5295	0.0151	0.4162
58	20.30	-0.10	-0.0759	-0.0116	-0.0676	0.1533	0.8905	1.2804	0.0188	0.5323	0.0147	0.4157
59	20.63	-0.07	-0.0932	-0.0124	-0.0796	0.1330	0.8542	1.2797	0.0180	0.5313	0.0141	0.4152
60	20.94	-0.06	-0.0389	-0.0037	-0.0670	0.0945	1.7214	1.3036	0.0164	0.5419	0.0126	0.4157
61	21.32	-0.10	-0.0508	-0.0071	-0.0686	0.1403	1.3490	1.2979	0.0160	0.5439	0.0123	0.4191
62	21.63	-0.04	-0.0594	-0.0078	-0.0655	0.1314	1.1026	1.3238	0.0151	0.5474	0.0114	0.4135
63	21.96	-0.07	-0.0040	-0.0009	-0.0556	0.2251	1.8832	1.3359	0.0139	0.5528	0.0104	0.4138
64	22.26	-0.07	0.0	-0.0001	-0.0509	-0.0001	-0.0509	1.3585	0.0128	0.5556	0.0095	0.4090
65	22.56	-0.08	-0.0189	-0.0042	-0.0534	0.2224	2.8253	1.3614	0.0131	0.5585	0.0097	0.4102
66	22.89	-0.06	-0.0459	-0.0079	-0.0572	0.1717	1.2461	1.3566	0.0147	0.5511	0.0108	0.4062
67	23.23	-0.08	-0.0507	-0.0080	-0.0606	0.1569	1.1951	1.3674	0.0146	0.5569	0.0107	0.4073
68	23.54	-0.10	0.0294	0.0026	-0.0345	0.0868	-1.1736	1.3605	0.0103	0.5509	0.0076	0.4049
69	23.90	-0.07	-0.0280	-0.0038	-0.0505	0.1367	1.8011	1.3826	0.0129	0.5576	0.0093	0.4033
70	24.23	-0.06	0.0161	-0.0005	-0.0329	-0.0280	-2.0395	1.3907	0.0102	0.5640	0.0073	0.4056
71	24.55	-0.07	0.0531	0.0028	-0.0307	0.0523	-0.5163	1.4111	0.0108	0.5740	0.0077	0.4068
72	24.89	-0.08	-0.0156	-0.0043	-0.0521	0.2742	3.3396	1.4184	0.0102	0.5835	0.0072	0.4114
73	25.18	-0.07	-0.0238	-0.0043	-0.0558	0.1797	2.3416	1.4245	0.0090	0.5821	0.0063	0.4087
74	25.48	-0.09	0.0128	-0.0010	-0.0320	-0.0762	-2.4949	1.4287	0.0086	0.5831	0.0060	0.4081
75	25.79	-0.07	-0.0089	-0.0011	-0.0385	0.1265	4.3220	1.4349	0.0073	0.5835	0.0051	0.4066
76	26.10	-0.08	0.0345	0.0030	-0.0220	0.0870	-0.6378	1.4440	0.0058	0.5917	0.0040	0.4098
77	26.37	-0.08	0.0652	0.0042	-0.0088	0.0645	-0.1346	1.4524	0.0044	0.5891	0.0030	0.4056
78	26.67	-0.10	0.1103	0.0080	0.0094	0.0729	0.0855	1.4568	0.0015	0.5879	0.0010	0.4035
79	27.00	-0.09	0.0657	0.0033	-0.0165	0.0503	-0.2513	1.4566	0.0012	0.5880	0.0008	0.4031
80	27.33	-0.07	0.1013	0.0065	0.0040	0.0638	0.0397	1.4839	0.0014	0.5962	0.0010	0.4018
81	27.64	-0.05	0.0613	0.0042	-0.0128	0.0686	-0.2084	1.4825	-0.0006	0.6003	-0.0004	0.4049
82	27.97	-0.07	0.1057	0.0066	0.0180	0.0625	0.1703	1.5002	0.0005	0.6120	0.0003	0.4079
83	28.27	-0.08	0.0472	0.0006	-0.0212	0.0127	-0.4486	1.5052	0.0006	0.6128	0.0005	0.4071
84	28.61	-0.05	0.0985	0.0026	0.0114	0.0259	0.1157	1.5123	0.0002	0.6176	0.0001	0.4084
85	28.92	-0.03	0.0307	-0.0026	-0.0276	-0.0831	-0.8981	1.5222	-0.0008	0.6150	-0.0005	0.4040
86	29.26	-0.06	0.1086	0.0035	0.0145	0.0318	0.1332	1.5243	-0.0042	0.6128	-0.0028	0.4020
87	29.58	-0.09	0.0905	0.0014	-0.0040	0.0149	-0.0447	1.5288	-0.0042	0.6179	-0.0028	0.4042
88	29.82	-0.14	0.0806	0.0011	0.0026	0.0130	0.0317	1.5282	-0.0044	0.6197	-0.0029	0.4055

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	12	1.10	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.76	0.02	0.0060	0.0020	0.0087	0.2252	1.4499	-0.2726	-0.0229	-0.0702	0.0840	0.2576
2	-2.52	0.03	0.0086	0.0020	0.0085	0.2269	0.9344	-0.2632	-0.0226	-0.0641	0.0859	0.2435
3	-1.90	0.04	-0.0003	0.0021	0.0063	-7.0044	-21.0001	-0.2008	-0.0175	-0.0456	0.0871	0.2271
4	-1.35	0.03	0.0161	0.0025	0.0099	0.1538	0.6127	-0.1641	-0.0132	-0.0251	0.0805	0.1527
5	-0.78	0.03	0.0081	0.0027	0.0099	0.3335	1.2221	-0.1107	-0.0080	-0.0054	0.0719	0.0484
6	-0.27	0.02	0.0118	0.0030	0.0114	0.2544	0.9688	-0.0644	-0.0029	0.0163	0.0454	-0.2537
7	0.26	0.02	0.0115	0.0032	0.0124	0.2806	1.0810	-0.0331	0.0008	0.0349	-0.0227	-1.0535
8	0.79	0.03	0.0249	0.0027	0.0113	0.1065	0.4537	0.0124	0.0053	0.0521	0.4297	4.1961
9	1.29	0.05	0.0080	0.0023	0.0122	0.2508	1.5207	0.0452	0.0089	0.0692	0.1976	1.5301
10	1.77	0.02	0.0129	0.0029	0.0127	0.2269	0.9644	0.0820	0.0124	0.0829	0.1510	1.0100
11	2.25	0.0	0.0170	0.0028	0.0127	0.1633	0.7450	0.1221	0.0168	0.1015	0.1378	0.8316
12	2.74	0.03	0.0163	0.0035	0.0155	0.2118	0.9528	0.1634	0.0212	0.1237	0.1296	0.7570
13	3.20	-0.01	0.0241	0.0037	0.0147	0.1526	0.6112	0.2116	0.0249	0.1412	0.1178	0.6670
14	3.68	-0.03	0.0114	0.0029	0.0154	0.2567	1.3508	0.2547	0.0276	0.1588	0.1082	0.6235
15	4.11	0.03	0.0154	0.0032	0.0135	0.2047	0.8787	0.2822	0.0295	0.1756	0.1046	0.6222
16	4.56	0.03	0.0104	0.0044	0.0187	0.4257	1.7948	0.3254	0.0306	0.1890	0.0942	0.5808
17	5.03	-0.01	0.0211	0.0041	0.0172	0.1956	0.8166	0.3568	0.0323	0.2126	0.0900	0.5926
18	5.45	0.04	0.0375	0.0066	0.0246	0.1761	0.6559	0.3972	0.0333	0.2262	0.0837	0.5695
19	5.89	-0.01	0.0189	0.0051	0.0213	0.2700	1.1269	0.4418	0.0343	0.2482	0.0777	0.5617
20	6.34	0.03	0.0218	0.0053	0.0182	0.2410	0.8332	0.4697	0.0343	0.2580	0.0731	0.5492
21	6.82	0.02	0.0185	0.0059	0.0223	0.3164	1.2035	0.5077	0.0342	0.2747	0.0674	0.5411
22	7.26	0.03	0.0325	0.0058	0.0248	0.1778	0.7640	0.5293	0.0355	0.2832	0.0671	0.5351
23	7.66	-0.06	0.0228	0.0053	0.0206	0.2337	0.9034	0.5818	0.0352	0.3064	0.0605	0.5267
24	8.13	-0.05	0.0296	0.0065	0.0252	0.2180	0.8501	0.6109	0.0349	0.3207	0.0572	0.5250
25	8.56	0.04	0.0312	0.0064	0.0229	0.2045	0.7339	0.6291	0.0345	0.3302	0.0548	0.5248
26	8.98	-0.01	0.0185	0.0058	0.0222	0.3124	1.1981	0.6610	0.0337	0.3409	0.0510	0.5158
27	9.35	0.02	0.0206	0.0066	0.0237	0.3206	1.1487	0.7078	0.0334	0.3610	0.0472	0.5101
28	9.77	-0.02	0.0233	0.0065	0.0228	0.2802	0.9770	0.7256	0.0330	0.3680	0.0455	0.5072
29	10.15	-0.02	0.0101	0.0050	0.0186	0.4904	1.8382	0.7505	0.0331	0.3756	0.0441	0.5005
30	10.58	-0.02	0.0192	0.0065	0.0242	0.3361	1.2603	0.7695	0.0321	0.3862	0.0418	0.5019
31	10.96	-0.04	0.0327	0.0075	0.0267	0.2295	0.8164	0.7939	0.0313	0.4030	0.0394	0.5076
32	11.35	-0.01	0.0287	0.0061	0.0211	0.2118	0.7339	0.8145	0.0311	0.4073	0.0382	0.5000
33	11.70	-0.05	0.0370	0.0086	0.0299	0.2333	0.8389	0.8379	0.0309	0.4154	0.0369	0.4957
34	12.09	-0.05	0.0270	0.0080	0.0290	0.2946	1.0740	0.8641	0.0300	0.4258	0.0345	0.4905
35	12.43	-0.04	0.0326	0.0076	0.0257	0.2325	0.7872	0.8859	0.0294	0.4361	0.0331	0.4922
36	12.81	0.02	0.0325	0.0049	0.0335	0.2748	1.0317	0.9190	0.0287	0.4511	0.0312	0.4909
37	13.14	-0.04	0.0309	0.0077	0.0288	0.2502	0.9319	0.9370	0.0277	0.4579	0.0296	0.4887
38	13.52	0.0	0.0307	0.0080	0.0291	0.2591	0.9488	0.9399	0.0276	0.4599	0.0293	0.4893
39	13.84	0.01	0.0380	0.0089	0.0306	0.2330	0.8043	0.9610	0.0264	0.4748	0.0269	0.4640
40	14.22	-0.05	0.0416	0.0095	0.0311	0.2291	0.7467	0.9966	0.0262	0.4805	0.0263	0.4821
41	14.59	-0.01	0.0433	0.0102	0.0366	0.2357	0.8459	1.0145	0.0260	0.4861	0.0256	0.4792
42	14.92	-0.03	0.0380	0.0086	0.0306	0.2271	0.8043	1.0236	0.0252	0.4944	0.0246	0.4831
43	15.29	0.0	0.0448	0.0101	0.0351	0.2261	0.7841	1.0371	0.0243	0.5038	0.0235	0.4857
44	15.60	-0.04	0.0382	0.0087	0.0292	0.2279	0.7652	1.0607	0.0240	0.5076	0.0227	0.4786
45	15.96	-0.05	0.0440	0.0094	0.0331	0.2132	0.7514	1.0768	0.0240	0.5128	0.0222	0.4762
46	16.28	-0.06	0.0503	0.0095	0.0346	0.1895	0.6871	1.0892	0.0229	0.5217	0.0210	0.4790

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	12	1.10	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED	
PC1AT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.62	-0.01	0.0499	0.0099	0.0359	0.1985	0.7200	1.1074	0.0218	0.5321	0.0197	0.4805
48	16.94	-0.05	0.0372	0.0098	0.0353	0.2643	0.9488	1.1195	0.0219	0.5312	0.0196	0.4745
49	17.26	-0.01	0.0455	0.0110	0.0381	0.2425	0.8165	1.1486	0.0198	0.5436	0.0173	0.4733
50	17.61	-0.01	0.0525	0.0098	0.0374	0.1873	0.7123	1.1616	0.0191	0.5507	0.0164	0.4740
51	17.93	-0.06	0.0555	0.0094	0.0354	0.1690	0.6377	1.1807	0.0176	0.5577	0.0149	0.4724
52	18.28	-0.07	0.0451	0.0095	0.0370	0.2097	0.8210	1.1884	0.0171	0.5618	0.0144	0.4727
53	18.61	-0.07	0.0502	0.0095	0.0367	0.1899	0.7316	1.2034	0.0166	0.5666	0.0138	0.4708
54	18.96	-0.01	0.0553	0.0095	0.0377	0.1710	0.6822	1.2148	0.0168	0.5706	0.0138	0.4697
55	19.28	-0.03	0.0555	0.0096	0.0365	0.1731	0.6575	1.2162	0.0173	0.5720	0.0142	0.4704
56	19.63	-0.04	0.0551	0.0101	0.0387	0.1825	0.7016	1.2333	0.0166	0.5795	0.0135	0.4699
57	19.96	-0.06	0.0549	0.0104	0.0402	0.1886	0.7321	1.2535	0.0161	0.5831	0.0129	0.4652
58	20.30	-0.10	0.0672	0.0113	0.0433	0.1686	0.6442	1.2667	0.0155	0.5864	0.0123	0.4629
59	20.63	-0.07	0.0639	0.0116	0.0438	0.1820	0.6853	1.2608	0.0149	0.5844	0.0119	0.4635
60	20.94	-0.06	0.0725	0.0125	0.0479	0.1718	0.6601	1.2710	0.0155	0.5858	0.0122	0.4609
61	21.32	-0.10	0.0714	0.0122	0.0447	0.1703	0.6259	1.2409	0.0150	0.5611	0.0121	0.4521
62	21.63	-0.04	0.0805	0.0137	0.0507	0.1706	0.6289	1.2473	0.0128	0.5625	0.0102	0.4510
63	21.96	-0.07	0.0713	0.0122	0.0464	0.1705	0.6502	1.2437	0.0131	0.5625	0.0106	0.4523
64	22.26	-0.07	0.0644	0.0125	0.0475	0.1534	0.7432	1.2441	0.0118	0.5636	0.0095	0.4530
65	22.56	-0.08	0.0671	0.0111	0.0427	0.1655	0.6357	1.2502	0.0097	0.5646	0.0077	0.4516
66	22.89	-0.06	0.0632	0.0110	0.0453	0.1746	0.7161	1.2643	0.0062	0.5656	0.0049	0.4473
67	23.23	-0.08	0.0677	0.0107	0.0434	0.1574	0.6405	1.2764	0.0056	0.5710	0.0044	0.4473
68	23.54	-0.10	0.0747	0.0121	0.0472	0.1617	0.6317	1.2718	0.0059	0.5678	0.0047	0.4464
69	23.90	-0.07	0.0750	0.0126	0.0475	0.1681	0.6332	1.2805	0.0047	0.5772	0.0037	0.4486
70	24.23	-0.06	0.0776	0.0121	0.0483	0.1557	0.6219	1.2934	0.0036	0.5803	0.0028	0.4486
71	24.55	-0.07	0.0797	0.0128	0.0491	0.1610	0.6155	1.2998	0.0034	0.5847	0.0026	0.4498
72	24.89	-0.08	0.0787	0.0136	0.0526	0.1726	0.6674	1.3170	0.0019	0.5940	0.0014	0.4510
73	25.18	-0.07	0.0573	0.0104	0.0441	0.1807	0.7695	1.3320	0.0014	0.5955	0.0011	0.4471
74	25.48	-0.09	0.0844	0.0128	0.0496	0.1512	0.5868	1.3302	0.0002	0.5936	0.0001	0.4463
75	25.79	-0.07	0.0770	0.0122	0.0472	0.1589	0.6124	1.3411	-0.0005	0.5978	-0.0003	0.4457
76	26.10	-0.08	0.0793	0.0140	0.0537	0.1770	0.6762	1.3433	-0.0011	0.6017	-0.0008	0.4479
77	26.37	-0.08	0.0664	0.0110	0.0415	0.1661	0.6254	1.3458	-0.0008	0.6031	-0.0006	0.4482
78	26.67	-0.10	0.0888	0.0143	0.0549	0.1614	0.6181	1.3399	-0.0026	0.5999	-0.0019	0.4477
79	27.00	-0.09	0.0780	0.0128	0.0518	0.1645	0.6640	1.3501	-0.0031	0.6045	-0.0023	0.4477
80	27.33	-0.07	0.0834	0.0134	0.0528	0.1602	0.6330	1.3556	-0.0036	0.6117	-0.0027	0.4512
81	27.64	-0.05	0.0752	0.0119	0.0485	0.1577	0.6444	1.3738	-0.0047	0.6148	-0.0034	0.4475
82	27.97	-0.07	0.0779	0.0123	0.0475	0.1580	0.6092	1.3906	-0.0047	0.6222	-0.0033	0.4475
83	28.27	-0.08	0.0780	0.0119	0.0474	0.1520	0.6076	1.4059	-0.0055	0.6276	-0.0039	0.4464
84	28.61	-0.05	0.0773	0.0141	0.0573	0.1825	0.7407	1.4046	-0.0073	0.6276	-0.0052	0.4468
85	28.92	-0.03	0.0781	0.0127	0.0520	0.1624	0.6648	1.4138	-0.0084	0.6306	-0.0059	0.4460
86	29.26	-0.08	0.0556	0.0111	0.0476	0.1598	0.8548	1.3914	-0.0088	0.6252	-0.0063	0.4494
87	29.58	-0.09	0.0791	0.0118	0.0471	0.1490	0.5949	1.4135	-0.0068	0.6308	-0.0062	0.4463
88	29.82	-0.14	0.1196	0.0176	0.0656	0.1470	0.5483	1.4037	-0.0106	0.6303	-0.0075	0.4490

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MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	13	0.85	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.75	0.03	-0.4181	0.9963	-0.0207	-0.1320	0.0000	0.1674	-2.3828	
2	-2.48	0.05	-0.3741	0.9186	0.0865	-0.0321	0.0050	0.1690	-2.4559	
3	-1.91	0.05	-0.2850	0.6799	0.0619	-0.0367	0.0100	0.1724	-2.3860	
4	-1.32	0.04	-0.1979	0.4510	-0.0348	-0.0863	0.0090	0.1742	-2.2792	
5	-0.78	0.05	-0.1341	0.2557	0.0559	-0.0393	0.0100	0.1736	-1.9071	
6	-0.22	0.04	-0.0310	0.0742	0.0087	-0.0212	0.0100	0.1763	-2.3494	
7	0.29	0.03	0.0428	-0.0799	-0.0325	-0.0345	0.0110	0.1760	-1.8673	
8	0.83	0.05	0.1042	-0.2848	0.0782	-0.0475	0.0120	0.1781	-2.7340	
9	1.31	0.03	0.1812	-0.4466	0.0760	-0.0454	0.0110	0.1766	-2.4651	
10	1.81	0.04	0.2479	-0.6640	0.0570	-0.0278	0.0100	0.1811	-2.6787	
11	2.28	0.02	0.3479	-0.8220	0.0137	-0.0752	0.0100	0.1767	-2.3629	
12	2.75	0.02	0.4258	-1.0371	0.0175	-0.0275	0.0110	0.1772	-2.4355	
13	3.22	0.03	0.4829	-1.2300	0.0665	0.0009	0.0120	0.1834	-2.5470	
14	3.69	0.03	0.5822	-1.4420	0.0765	-0.0681	0.0150	0.1754	-2.4768	
15	4.16	0.02	0.6709	-1.6642	-0.0124	-0.0034	0.0190	0.1777	-2.4805	
16	4.61	0.02	0.7448	-1.8456	-0.0044	-0.0118	0.0170	0.1736	-2.4834	
17	5.05	0.03	0.8182	-2.0933	0.0385	0.0101	0.0130	0.1800	-2.5585	
18	5.51	0.02	0.9011	-2.2984	0.0340	-0.0686	0.0180	0.1734	-2.5507	
19	5.95	0.02	0.9802	-2.4931	0.0277	-0.0198	0.0170	0.1753	-2.5435	
20	6.38	0.03	1.0588	-2.7271	0.0871	-0.0369	0.0150	0.1762	-2.5757	
21	6.84	0.02	1.1126	-2.8594	-0.0160	-0.0164	0.0160	0.1737	-2.5701	
22	7.29	0.01	1.2465	-3.1610	-0.0101	-0.1188	0.0160	0.1694	-2.5358	
23	7.70	0.02	1.3094	-3.3350	0.0165	-0.0581	0.0160	0.1732	-2.5469	
24	8.16	0.02	1.4012	-3.6105	0.0532	-0.0745	0.0140	0.1678	-2.5767	
25	8.56	0.02	1.4668	-3.7923	0.0284	0.0032	0.0130	0.1664	-2.5854	
26	8.99	0.02	1.5719	-4.0294	-0.0006	0.0398	0.0130	0.1643	-2.5634	
27	9.38	0.03	1.6381	-4.1861	0.0446	-0.0124	0.0150	0.1644	-2.5555	
28	9.79	0.01	1.7101	-4.3648	0.0382	0.0785	0.0160	0.1621	-2.5524	
29	10.19	0.01	1.8147	-4.5933	-0.0071	0.0409	0.0120	0.1568	-2.5312	
30	10.59	0.01	1.8685	-4.7656	0.0626	0.0544	0.0220	0.1563	-2.5505	
31	10.96	0.0	1.9311	-4.8793	0.0153	0.0606	0.0140	0.1530	-2.5266	
32	11.35	-0.01	2.0600	-5.1837	-0.0795	0.0143	0.0170	0.1544	-2.5163	
33	11.70	0.0	2.1126	-5.2804	-0.0384	0.1497	0.0170	0.1512	-2.4994	
34	12.06	0.01	2.2108	-5.5128	0.0544	0.0428	0.0050	0.1505	-2.4936	
35	12.43	0.01	2.2680	-5.6809	0.0233	0.0434	0.0120	0.1499	-2.5048	
36	12.78	0.01	2.3704	-5.8212	0.0085	0.1705	0.0150	0.1453	-2.4558	
37	13.13	0.0	2.4541	-6.0464	-0.0613	0.1308	0.0130	0.1423	-2.4638	
38	13.49	0.01	2.5249	-6.1375	0.0215	0.0769	0.0020	0.1414	-2.4308	
39	13.84	0.0	2.5695	-6.2949	-0.0284	0.1497	0.0180	0.1399	-2.4499	
40	14.20	0.01	2.6485	-6.3825	0.0131	0.1756	0.0150	0.1348	-2.4099	
41	14.57	0.01	2.7210	-6.4981	0.0217	0.0766	0.0	0.1324	-2.3881	
42	14.89	0.0	2.7832	-6.6252	0.0217	0.0406	0.0010	0.1310	-2.3804	
43	15.26	0.0	2.8754	-6.7672	-0.0073	0.0762	0.0070	0.1276	-2.3535	
44	15.58	0.0	2.9434	-6.8914	-0.0547	0.2216	0.0210	0.1279	-2.3413	
45	15.89	-0.01	3.0005	-6.9573	-0.0901	0.1151	0.0010	0.1306	-2.3187	
46	16.24	0.0	3.0591	-6.9964	-0.0274	0.0694	-0.0180	0.1313	-2.2871	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	13.0	0.85	1.7	0.0	0.2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.55	0.01	3.1158	-7.1267	0.0286	0.0989	-0.0090	0.1339	-2.2873		
48	16.89	0.0	3.1890	-7.2212	0.0165	0.0029	-0.0230	0.1342	-2.2644		
49	17.19	-0.01	3.2667	-7.3590	-0.0128	-0.0071	-0.0090	0.1367	-2.2527		
50	17.54	-0.01	3.3382	-7.4821	-0.0415	0.0261	-0.0210	0.1354	-2.2114		
51	17.87	0.0	3.4196	-7.4610	0.0166	0.1217	-0.0070	0.1409	-2.1819		
52	18.19	0.0	3.4845	-7.5780	-0.0144	0.1221	-0.0070	0.1446	-2.1747		
53	18.54	-0.01	3.5440	-7.6923	-0.0718	0.1445	-0.0100	0.1415	-2.1705		
54	18.85	-0.01	3.6131	-7.8560	-0.0163	0.0118	-0.0110	0.1353	-2.1743		
55	19.16	-0.01	3.6946	-8.0381	-0.0655	0.1327	-0.0070	0.1348	-2.1756		
56	19.49	-0.01	3.7692	-8.1875	-0.0593	0.2020	-0.0010	0.1262	-2.1607		
57	19.82	-0.02	3.8646	-8.2521	-0.0179	0.1410	-0.0200	0.1151	-2.1353		
58	20.15	-0.02	3.8919	-8.3163	-0.1616	0.3912	0.0040	0.1129	-2.1368		
59	20.50	-0.01	3.9598	-8.3943	0.0027	0.2452	-0.0160	0.0980	-2.1199		
60	20.80	-0.03	4.0224	-8.5229	-0.1370	0.0878	-0.0120	0.0947	-2.1189		
61	21.14	-0.02	4.0643	-8.5146	-0.0650	0.1776	-0.0270	0.0955	-2.0950		
62	21.45	-0.03	4.1839	-8.7440	0.0464	-0.1529	-0.0230	0.0785	-2.0899		
63	21.73	-0.03	4.2123	-8.8389	-0.0524	-0.0216	-0.0260	0.0778	-2.0983		
64	22.06	-0.02	4.2625	-8.9456	0.0797	-0.0776	-0.0270	0.0747	-2.0884		
65	22.36	-0.02	4.3102	-8.9459	0.1249	-0.2038	-0.0110	0.0760	-2.0755		
66	22.68	-0.03	4.2715	-8.7848	0.0324	-0.1323	-0.0290	0.0815	-2.0566		
67	22.97	-0.04	4.3058	-8.7228	0.0781	-0.4693	-0.0380	0.0861	-2.0258		
68	23.30	-0.02	4.3790	-8.7363	0.0415	-0.0441	-0.0590	0.0801	-1.9950		
69	23.59	-0.02	4.3821	-8.7446	0.0757	-0.1680	0.0050	0.0753	-1.9955		
70	23.91	-0.03	4.3153	-8.6111	0.0139	-0.0595	-0.0040	0.0785	-1.9955		
71	24.22	-0.03	4.3737	-8.6329	0.0772	0.0029	0.0540	0.0693	-1.9738		
72	24.53	-0.04	4.3769	-8.5154	0.1707	-0.3709	-0.1120	0.0619	-1.9455		
73	24.85	-0.03	4.4333	-8.4484	0.1715	-0.2776	-0.0270	0.0472	-1.9056		
74	25.12	-0.04	4.5133	-8.6043	0.1527	-0.3467	-0.1070	0.0446	-1.9064		
75	25.42	-0.04	4.5625	-8.6382	0.0901	-0.2391	-0.0600	0.0378	-1.8933		
76	25.71	-0.03	4.6548	-8.7004	0.1052	-0.1363	-0.0890	0.0177	-1.8691		
77	26.00	-0.03	4.7091	-8.8584	0.2436	-0.4990	0.0700	0.0198	-1.8811		
78	26.28	-0.04	4.7533	-8.6463	0.1262	-0.3326	-0.0840	0.0158	-1.8190		
79	26.58	-0.03	4.7797	-8.9633	0.2535	-0.5108	0.0110	0.0015	-1.7916		
80	26.91	-0.03	4.8768	-8.6412	0.4863	-1.1128	0.1050	-0.0151	-1.7719		
81	27.19	-0.04	4.9845	-8.8191	0.1243	-0.3510	-0.0550	-0.0293	-1.7693		
82	27.51	-0.04	5.0252	-8.6861	0.2274	-0.5323	0.0210	-0.0263	-1.7285		
83	27.80	-0.03	5.0242	-8.6507	0.2375	-0.3385	-0.0930	-0.0299	-1.7218		
84	28.09	-0.05	5.1344	-8.6770	0.2352	-0.7222	-0.0610	-0.0472	-1.6900		
85	28.40	-0.04	5.1525	-8.5864	0.1380	-0.2212	-0.0680	-0.0503	-1.6664		
86	28.72	-0.04	5.2388	-8.6082	0.2438	-0.5103	-0.0450	-0.0589	-1.6432		
87	29.03	-0.05	5.2942	-8.4578	0.1763	-0.3998	-0.0790	-0.0723	-1.5975		
88	29.34	-0.04	5.3246	-8.2983	0.2503	-0.5324	-0.0830	-0.0793	-1.5585		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	13	0.85	1.7	U.0	B2W0F12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	Cb1	XCPF1	YCPF1	LN2	CH2	Cb2	XCPF2	YCPF2
1	-2.75	0.03	0.0030	-0.0003	0.0097	-0.1000	3.2332	-0.1464	-0.0025	-0.0650	0.0174	0.4439
2	-2.48	0.05	0.0133	-0.0001	0.0084	-0.0113	0.6340	-0.1357	-0.0024	-0.0601	0.0177	0.4430
3	-1.91	0.05	0.0005	-0.0004	0.0032	-0.8998	6.3332	-0.1036	-0.0014	-0.0459	0.0140	0.4433
4	-1.32	0.04	0.0014	-0.0004	0.0085	-0.3214	6.0475	-0.0680	-0.0006	-0.0326	0.0096	0.4788
5	-0.78	0.05	0.0027	-0.0005	0.0097	-0.1852	3.5925	-0.0379	0.0001	-0.0177	-0.0026	0.4678
6	-0.22	0.04	-0.0004	-0.0005	0.0081	1.2498	-20.1668	-0.0135	0.0005	-0.0072	-0.0370	0.5332
7	0.29	0.03	-0.0019	-0.0004	0.0085	0.2368	-4.3510	0.0227	0.0011	0.0037	0.0484	0.1614
8	0.83	0.05	0.0078	-0.0004	0.0100	-0.0513	1.2819	0.0448	0.0017	0.0178	0.0391	0.3979
9	1.31	0.03	0.0001	-0.0004	0.0060	-3.9993	60.3332	0.0724	0.0027	0.0300	0.0380	0.4147
10	1.81	0.04	0.0009	-0.0006	0.0088	-0.7221	9.7777	0.1053	0.0033	0.0418	0.0318	0.3968
11	2.28	0.02	0.0025	-0.0006	0.0098	-0.2400	3.9332	0.1310	0.0000	0.0552	0.0309	0.4218
12	2.75	0.02	0.0023	-0.0007	0.0098	-0.3260	4.2463	0.1604	0.0049	0.0671	0.0305	0.4186
13	3.22	0.03	0.0022	-0.0005	0.0126	-0.2272	5.7423	0.1681	0.0062	0.0791	0.0330	0.4204
14	3.69	0.03	0.0055	-0.0012	0.0163	-0.2272	2.9996	0.2310	0.0073	0.0916	0.0316	0.3964
15	4.16	0.02	-0.0021	-0.0012	0.0121	0.5951	-5.7020	0.2502	0.0084	0.1024	0.0338	0.4092
16	4.61	0.02	0.0014	-0.0011	0.0117	-0.8213	8.3332	0.2832	0.0099	0.1127	0.0349	0.3978
17	5.05	0.03	0.0003	-0.0016	0.0142	-5.3324	47.3332	0.3117	0.0108	0.1231	0.0348	0.3948
18	5.51	0.02	0.0005	-0.0016	0.0119	-3.2994	23.7332	0.3483	0.0115	0.1344	0.0330	0.3857
19	5.95	0.02	-0.0050	-0.0019	0.0134	0.3799	-2.6868	0.3764	0.0120	0.1451	0.0319	0.3855
20	6.38	0.03	-0.0002	-0.0021	0.0120	10.4581	-60.1666	0.4031	0.0120	0.1553	0.0299	0.3853
21	6.84	0.02	0.0003	-0.0025	0.0149	-8.4985	49.6065	0.4261	0.0130	0.1661	0.0306	0.3898
22	7.29	0.01	0.0057	-0.0031	0.0172	-0.5438	3.0174	0.4594	0.0135	0.1774	0.0294	0.3861
23	7.70	0.02	-0.0035	-0.0028	0.0154	0.8141	-4.4096	0.4857	0.0140	0.1892	0.0288	0.3896
24	8.10	0.02	-0.0042	-0.0025	0.0126	0.6070	-3.0001	0.5163	0.0144	0.1970	0.0279	0.3816
25	8.56	0.02	-0.0016	-0.0030	0.0124	1.8747	-7.7293	0.5431	0.0155	0.2062	0.0286	0.3796
26	8.99	0.02	-0.0119	-0.0033	0.0115	0.2773	-1.0029	0.5682	0.0167	0.2155	0.0294	0.3793
27	9.38	0.03	-0.0081	-0.0039	0.0127	0.4876	-1.5680	0.5940	0.0176	0.2218	0.0296	0.3734
28	9.79	0.01	-0.0037	-0.0041	0.0140	1.1214	-3.7749	0.6180	0.0184	0.2282	0.0298	0.3693
29	10.19	0.01	-0.0106	-0.0045	0.0125	0.4292	-1.1762	0.6432	0.0192	0.2375	0.0299	0.3693
30	10.59	0.01	-0.0087	-0.0051	0.0155	0.5918	-1.7817	0.6656	0.0202	0.2439	0.0303	0.3664
31	10.96	0.0	-0.0127	-0.0055	0.0153	0.4369	-1.2022	0.6869	0.0204	0.2478	0.0298	0.3607
32	11.35	-0.01	-0.0150	-0.0053	0.0114	0.3533	-0.7601	0.7143	0.0216	0.2568	0.0303	0.3595
33	11.70	0.0	-0.0116	-0.0059	0.0148	0.5128	-1.2789	0.7366	0.0224	0.2637	0.0304	0.3581
34	12.06	0.01	-0.0221	-0.0041	0.0055	0.1855	-0.2505	0.7611	0.0237	0.2704	0.0311	0.3553
35	12.43	0.01	-0.0189	-0.0065	0.0141	0.3439	-0.7462	0.7780	0.0238	0.2761	0.0306	0.3549
36	12.78	0.01	-0.0234	-0.0065	0.0109	0.2799	-0.4659	0.8005	0.0259	0.2817	0.0323	0.3520
37	13.13	0.0	-0.0243	-0.0070	0.0111	0.2901	-0.4569	0.8206	0.0267	0.2857	0.0325	0.3482
38	13.49	0.01	-0.0276	-0.0056	0.0041	0.2029	-0.1487	0.8380	0.0281	0.2909	0.0335	0.3472
39	13.84	0.0	-0.0308	-0.0091	0.0110	0.2954	-0.3583	0.8507	0.0291	0.2923	0.0342	0.3436
40	14.20	0.01	-0.0245	-0.0080	0.0138	0.3265	-0.5647	0.8685	0.0314	0.2955	0.0362	0.3402
41	14.57	0.01	-0.0353	-0.0077	0.0105	0.2195	-0.2985	0.8796	0.0327	0.2990	0.0372	0.3399
42	14.89	0.0	-0.0452	-0.0053	0.0009	0.1183	-0.0208	0.9045	0.0355	0.3012	0.0392	0.3330
43	15.26	0.0	-0.0376	-0.0091	0.0113	0.2433	-0.2498	0.9157	0.0359	0.3040	0.0392	0.3320
44	15.58	0.0	-0.0315	-0.0109	0.0184	0.3460	-0.5642	0.9241	0.0362	0.3082	0.0392	0.3335
45	15.89	-0.01	-0.0367	-0.0098	0.0091	0.2670	-0.2472	0.9475	0.0381	0.3104	0.0402	0.3276
46	16.24	0.0	-0.0317	-0.0087	0.0094	0.2760	-0.2977	0.9648	0.0389	0.3150	0.0403	0.3265

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		13		0.85		1.7	0.0	0.2	WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	16.55	0.01	-0.0358	-0.0138	0.0165	0.3868	-0.4601	0.9752	0.0388	0.3180	0.0398	0.3260		
48	16.89	0.0	-0.0365	-0.0123	0.0151	0.3369	-0.4147	0.9936	0.0399	0.3200	0.0402	0.3220		
49	17.19	-0.01	-0.0331	-0.0227	0.0393	0.6857	-1.1864	1.0012	0.0377	0.3244	0.0377	0.3260		
50	17.54	-0.01	-0.0507	-0.0065	0.0012	0.1292	-0.0238	0.9989	0.0490	0.3152	0.0491	0.3135		
51	17.87	0.0	-0.0528	-0.0123	0.0133	0.2339	-0.2520	1.0110	0.0471	0.3188	0.0466	0.3153		
52	18.19	0.0	-0.0566	-0.0064	-0.0025	0.0706	0.0435	1.0129	0.0492	0.3176	0.0486	0.3136		
53	18.54	-0.01	-0.0610	-0.0070	0.0022	0.1147	-0.0356	1.0206	0.0488	0.3214	0.0478	0.3149		
54	18.85	-0.01	-0.0559	-0.0031	-0.0030	0.0563	0.0541	1.0333	0.0459	0.3248	0.0445	0.3143		
55	19.16	-0.01	-0.0587	-0.0057	0.0005	0.0979	-0.0092	1.0617	0.0452	0.3277	0.0434	0.3146		
56	19.49	-0.01	-0.0704	-0.0143	0.0127	0.2031	-0.1810	1.0578	0.0455	0.3325	0.0430	0.3143		
57	19.82	-0.02	-0.0603	-0.0038	-0.0021	0.0630	0.0347	1.0722	0.0462	0.3332	0.0431	0.3107		
58	20.15	-0.02	-0.0768	-0.0198	0.0206	0.2584	-0.2683	1.0724	0.0453	0.3361	0.0422	0.3134		
59	20.50	-0.01	-0.0593	-0.0078	0.0058	0.1315	-0.0985	1.0945	0.0471	0.3371	0.0430	0.3080		
60	20.80	-0.03	-0.0610	-0.0059	0.0023	0.0575	-0.0373	1.1039	0.0484	0.3405	0.0438	0.3085		
61	21.14	-0.02	-0.0557	-0.0139	0.0175	0.2495	-0.3149	1.1142	0.0472	0.3433	0.0423	0.3081		
62	21.45	-0.03	-0.0428	-0.0009	-0.0050	-0.0210	0.1159	1.1236	0.0491	0.3413	0.0437	0.3038		
63	21.73	-0.03	-0.0623	-0.0105	0.0077	0.1693	-0.1242	1.1299	0.0482	0.3478	0.0426	0.3078		
64	22.06	-0.02	-0.0483	0.0024	-0.0077	-0.0507	0.1593	1.1351	0.0481	0.3427	0.0424	0.3019		
65	22.36	-0.02	-0.0091	0.0105	-0.0072	-1.1536	0.1948	1.1174	0.0459	0.3331	0.0411	0.2981		
66	22.68	-0.03	-0.0306	0.0092	-0.0115	-0.3006	0.3757	1.1083	0.0439	0.3252	0.0396	0.2934		
67	22.97	-0.04	-0.0324	0.0007	0.0025	-0.0231	-0.0773	1.1221	0.0433	0.3341	0.0386	0.2978		
68	23.30	-0.02	-0.0431	0.0011	0.0006	-0.0267	-0.0195	1.0976	0.0395	0.3252	0.0360	0.2963		
69	23.59	-0.02	-0.0623	-0.0013	0.0033	0.0217	-0.0536	1.1110	0.0412	0.3340	0.0371	0.3006		
70	23.91	-0.03	-0.0582	0.0067	-0.0065	-0.1160	0.1184	1.0537	0.0367	0.3121	0.0348	0.2962		
71	24.22	-0.03	-0.0269	0.0109	-0.0053	-0.4051	0.1957	1.0447	0.0336	0.3078	0.0322	0.2946		
72	24.53	-0.04	-0.0499	0.0016	0.0078	-0.0321	-0.1558	1.1429	0.0397	0.3353	0.0348	0.2934		
73	24.85	-0.03	-0.0228	0.0124	-0.0060	-0.5438	0.2630	1.0265	0.0209	0.2923	0.0262	0.2867		
74	25.12	-0.04	-0.0207	0.0104	0.0052	-0.5047	-0.2513	1.0971	0.0310	0.3149	0.0282	0.2870		
75	25.42	-0.04	-0.0429	-0.0099	0.0054	0.1071	-0.0586	1.1592	0.0390	0.3513	0.0336	0.3030		
76	25.71	-0.03	0.0163	0.0085	0.0138	0.5214	0.8486	1.1061	0.0317	0.3209	0.0286	0.2901		
77	26.00	-0.03	0.0460	0.0113	0.0214	0.2456	0.4656	1.0524	0.0242	0.3064	0.0230	0.2911		
78	26.28	-0.04	0.0007	0.0055	0.0205	0.8557	29.3332	1.1366	0.0322	0.3349	0.0284	0.2947		
79	26.58	-0.03	0.0273	0.0056	0.0318	0.2051	1.1647	1.1039	0.0295	0.3200	0.0268	0.2895		
80	26.91	-0.03	0.1369	0.0123	0.0659	0.0898	0.4815	1.0671	0.0229	0.3144	0.0215	0.2946		
81	27.19	-0.04	0.0059	0.0019	0.0366	0.3220	6.1976	1.1241	0.0296	0.3253	0.0263	0.2894		
82	27.51	-0.04	0.0753	0.0058	0.0567	0.0770	0.7529	1.1029	0.0269	0.3199	0.0244	0.2901		
83	27.80	-0.03	0.0005	0.0005	0.0465	0.9998	93.7333	1.1513	0.0296	0.3345	0.0257	0.2906		
84	28.09	-0.05	-0.0198	-0.0026	0.0271	0.1338	-1.3088	1.1862	0.0316	0.3481	0.0266	0.2934		
85	28.40	-0.04	-0.0624	-0.0012	0.0033	0.0200	-0.0530	1.1530	0.0297	0.3373	0.0258	0.2925		
86	28.72	-0.04	-0.0204	-0.0017	0.0296	0.0858	-1.4511	1.1556	0.0289	0.3371	0.0250	0.2917		
87	29.03	-0.05	-0.0328	-0.0043	0.0306	0.1311	-0.9320	1.1603	0.0279	0.3403	0.0241	0.2933		
88	29.34	-0.04	0.0014	-0.0027	0.0409	-1.9282	29.1904	1.1687	0.0277	0.3402	0.0237	0.2911		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	13	0.85	1.7	0.0	BZHUFI2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CU3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.75	0.03	-0.0039	0.0009	-0.0028	-0.2435	0.7178	-0.1377	-0.0043	-0.0695	0.0316	0.5046
2	-2.48	0.05	-0.0031	0.0009	-0.0025	-0.1044	0.2783	-0.1220	-0.0043	-0.0668	0.0356	0.5480
3	-1.91	0.05	-0.0124	0.0007	-0.0033	-0.0564	0.2687	-0.0826	-0.0030	-0.0465	0.0363	0.5632
4	-1.32	0.04	-0.0022	0.0009	-0.0015	-0.4317	0.6969	-0.0471	-0.0022	-0.0330	0.0478	0.7005
5	-0.78	0.05	-0.0020	0.0008	-0.0034	-0.3599	1.6832	-0.0208	-0.0019	-0.0198	0.0913	0.9534
6	-0.22	0.04	0.0014	0.0009	-0.0028	0.6785	-2.0239	0.0097	-0.0039	-0.0065	-0.0928	-0.6668
7	0.29	0.03	0.0029	0.0012	-0.0018	0.4137	-0.6323	0.0468	-0.0002	0.0076	-0.0041	0.1549
8	0.83	0.05	-0.0024	0.0013	-0.0015	-0.5416	0.6249	0.0757	0.0005	0.0189	0.0073	0.2500
9	1.31	0.03	-0.0022	0.0009	-0.0015	-0.4317	0.6969	0.1046	0.0015	0.0324	0.0148	0.3103
10	1.81	0.04	0.0031	0.0009	-0.0015	0.2903	-0.6023	0.1381	0.0018	0.0433	0.0134	0.3137
11	2.28	0.02	0.0030	0.0009	-0.0010	0.3166	-0.3335	0.1703	0.0026	0.0555	0.0153	0.3262
12	2.75	0.02	0.0030	0.0008	-0.0006	0.2833	-0.2001	0.1920	0.0033	0.0678	0.0174	0.3530
13	3.22	0.03	0.0045	0.0013	-0.0009	0.2999	-0.2001	0.2243	0.0043	0.0797	0.0192	0.3555
14	3.69	0.03	0.0047	0.0008	-0.0004	0.1702	0.3779	0.2549	0.0051	0.0916	0.0202	0.3595
15	4.16	0.02	0.0028	0.0011	-0.0007	0.4106	-0.2382	0.3001	0.0069	0.1055	0.0231	0.3515
16	4.61	0.02	0.0114	0.0009	0.0011	0.0833	0.0964	0.3209	0.0084	0.1149	0.0263	0.3581
17	5.05	0.03	0.0077	0.0013	0.0012	0.1755	0.1514	0.3621	0.0391	0.1282	0.0251	0.3539
18	5.51	0.02	0.0059	0.0012	0.0018	0.2118	0.2993	0.3908	0.0099	0.1407	0.0254	0.3601
19	5.95	0.02	0.0094	0.0010	0.0028	0.1117	0.3013	0.4226	0.0106	0.1516	0.0251	0.3585
20	6.38	0.03	0.0092	0.0012	0.0032	0.1358	0.3441	0.4528	0.0109	0.1608	0.0242	0.3551
21	6.84	0.02	0.0092	0.0013	0.0032	0.1467	0.3441	0.4758	0.0113	0.1699	0.0238	0.3572
22	7.29	0.01	0.0194	0.0012	0.0059	0.0618	0.3023	0.5044	0.0121	0.1826	0.0241	0.3620
23	7.70	0.02	0.0108	0.0012	0.0045	0.1157	0.4165	0.5358	0.0122	0.1934	0.0229	0.3610
24	8.16	0.02	0.0141	0.0011	0.0065	0.0815	0.4609	0.5686	0.0136	0.2036	0.0239	0.3580
25	8.56	0.02	0.0141	0.0016	0.0044	0.1135	0.3119	0.5938	0.0143	0.2126	0.0242	0.3580
26	8.99	0.02	0.0140	0.0013	0.0065	0.0964	0.4618	0.6272	0.0162	0.2230	0.0258	0.3555
27	9.38	0.03	0.0141	0.0014	0.0053	0.0943	0.3758	0.6436	0.0168	0.2285	0.0262	0.3551
28	9.79	0.01	0.0175	0.0013	0.0063	0.0771	0.3618	0.6780	0.0180	0.2367	0.0265	0.3491
29	10.19	0.01	0.0139	0.0015	0.0064	0.1079	0.4627	0.6924	0.0185	0.2447	0.0267	0.3520
30	10.59	0.01	0.0111	0.0009	0.0041	0.0856	0.3693	0.7229	0.0193	0.2512	0.0268	0.3475
31	10.96	0.0	0.0141	0.0012	0.0065	0.0851	0.4609	0.7429	0.0201	0.2571	0.0271	0.3461
32	11.35	-0.01	0.0171	0.0014	0.0097	0.0819	0.5671	0.7756	0.0210	0.2701	0.0271	0.3483
33	11.70	0.0	0.0090	0.0013	0.0047	0.1500	0.5221	0.7883	0.0215	0.2726	0.0273	0.3458
34	12.06	0.01	0.0171	0.0012	0.0098	0.0731	0.5730	0.8141	0.0223	0.2805	0.0274	0.3445
35	12.43	0.01	0.0137	0.0013	0.0096	0.0949	0.6982	0.8382	0.0229	0.2862	0.0273	0.3414
36	12.78	0.01	0.0123	0.0012	0.0070	0.0575	0.5640	0.8644	0.0245	0.2948	0.0283	0.3411
37	13.13	0.0	0.0204	0.0018	0.0093	0.0907	0.4558	0.8938	0.0253	0.3009	0.0284	0.3367
38	13.49	0.01	0.0171	0.0011	0.0110	0.0672	0.6432	0.9003	0.0264	0.3024	0.0294	0.3359
39	13.84	0.0	0.0225	0.0010	0.0106	0.0467	0.4710	0.9281	0.0284	0.3105	0.0306	0.3345
40	14.20	0.01	0.0174	0.0012	0.0082	0.0690	0.4711	0.9359	0.0306	0.3111	0.0327	0.3324
41	14.57	0.01	0.0102	0.0011	0.0106	0.1127	1.0391	0.9547	0.0317	0.3129	0.0332	0.3278
42	14.89	0.0	0.0221	0.0015	0.0115	0.0679	0.5368	0.9675	0.0323	0.3163	0.0334	0.3269
43	15.26	0.0	0.0136	0.0012	0.0114	0.0882	0.8406	0.9859	0.0348	0.3215	0.0353	0.3261
44	15.58	0.0	0.0141	0.0009	0.0090	0.0674	0.6382	0.9969	0.0391	0.3201	0.0393	0.3211
45	15.89	-0.01	0.0208	0.0010	0.0106	0.0505	0.5111	1.0022	0.0421	0.3169	0.0420	0.3162
46	16.24	0.0	0.0240	0.0013	0.0120	0.0562	0.4999	0.9784	0.0490	0.3061	0.0501	0.3129

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		13		0.85 1.7		0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4	
47	16.55	0.01	0.0205	0.0013	0.0118	0.0658	0.5771	0.9959	0.0499	0.3078	0.0501	0.3090	
48	16.89	0.0	0.0308	0.0013	0.0138	0.0422	0.4469	0.9980	0.0503	0.3105	0.0504	0.3111	
49	17.19	-0.01	0.0276	0.0010	0.0129	0.0380	0.4673	1.0310	0.0505	0.3171	0.0490	0.3075	
50	17.54	-0.01	0.0303	0.0017	0.0156	0.0577	0.5147	1.0331	0.0503	0.3196	0.0487	0.3093	
51	17.87	0.0	0.0234	0.0014	0.0118	0.0686	0.5763	1.0573	0.0489	0.3226	0.0462	0.3051	
52	18.19	0.0	0.0235	0.0014	0.0144	0.0596	0.6141	1.0686	0.0463	0.3286	0.0433	0.3075	
53	18.54	-0.01	0.0234	0.0013	0.0144	0.0577	0.6153	1.0828	0.0450	0.3330	0.0415	0.3075	
54	18.85	-0.01	0.0287	0.0015	0.0129	0.0523	0.4482	1.0866	0.0443	0.3351	0.0408	0.3084	
55	19.16	-0.01	0.0299	0.0016	0.0166	0.0552	0.5540	1.1133	0.0445	0.3404	0.0400	0.3057	
56	19.49	-0.01	0.0239	0.0011	0.0113	0.0481	0.4713	1.1205	0.0460	0.3411	0.0411	0.3044	
57	19.82	-0.02	0.0352	0.0017	0.0147	0.0483	0.4184	1.1313	0.0456	0.3440	0.0403	0.3041	
58	20.15	-0.02	0.0252	0.0014	0.0129	0.0555	0.5118	1.1298	0.0494	0.3383	0.0438	0.2994	
59	20.50	-0.01	0.0420	0.0016	0.0170	0.0381	0.4046	1.1420	0.0479	0.3434	0.0420	0.3007	
60	20.80	-0.03	0.0271	0.0014	0.0127	0.0517	0.4697	1.1494	0.0485	0.3463	0.0422	0.3013	
61	21.14	-0.02	0.0354	0.0016	0.0151	0.0452	0.4264	1.1353	0.0478	0.3334	0.0421	0.2937	
62	21.45	-0.03	0.0352	0.0016	0.0166	0.0469	0.4724	1.1671	0.0480	0.3494	0.0411	0.2994	
63	21.73	-0.03	0.0373	0.0011	0.0164	0.0308	0.4405	1.1522	0.0479	0.3462	0.0416	0.3005	
64	22.06	-0.02	0.0365	0.0016	0.0177	0.0434	0.4796	1.1751	0.0477	0.3520	0.0406	0.2995	
65	22.36	-0.02	0.0301	0.0015	0.0166	0.0515	0.5525	1.1902	0.0467	0.3586	0.0392	0.3013	
66	22.68	-0.03	0.0419	0.0021	0.0174	0.0501	0.4144	1.1894	0.0448	0.3488	0.0377	0.2933	
67	22.97	-0.04	0.0451	0.0020	0.0200	0.0443	0.4441	1.1304	0.0405	0.3340	0.0358	0.2954	
68	23.30	-0.02	0.0400	0.0020	0.0185	0.0512	0.4532	1.1202	0.0369	0.3273	0.0330	0.2922	
69	23.59	-0.02	0.0400	0.0019	0.0185	0.0487	0.4632	1.0973	0.0355	0.3297	0.0324	0.3005	
70	23.91	-0.03	0.0438	0.0017	0.0172	0.0395	0.3926	1.1310	0.0331	0.3354	0.0337	0.2965	
71	24.22	-0.03	0.0368	0.0017	0.0178	0.0475	0.4827	1.1416	0.0384	0.3443	0.0337	0.3016	
72	24.53	-0.04	0.0419	0.0015	0.0202	0.0358	0.4812	1.0336	0.0275	0.2997	0.0266	0.2900	
73	24.85	-0.03	0.0417	0.0020	0.0142	0.0430	0.4603	1.1764	0.0365	0.3398	0.0311	0.2888	
74	25.12	-0.04	0.0418	0.0017	0.0202	0.0419	0.4839	1.1119	0.0301	0.3157	0.0271	0.2839	
75	25.42	-0.04	0.0420	0.0019	0.0175	0.0464	0.4165	0.9791	0.0214	0.2937	0.0218	0.2999	
76	25.71	-0.03	0.0466	0.0025	0.0196	0.0547	0.4212	1.0865	0.0265	0.3135	0.0244	0.2886	
77	26.00	-0.03	0.0420	0.0016	0.0193	0.0381	0.4594	1.1340	0.0311	0.3372	0.0274	0.2973	
78	26.28	-0.04	0.0516	0.0024	0.0221	0.0475	0.4282	1.0439	0.0209	0.3051	0.0201	0.2922	
79	26.58	-0.03	0.0453	0.0017	0.0201	0.0386	0.4436	1.0719	0.0197	0.3160	0.0184	0.2948	
80	26.91	-0.03	0.0520	0.0019	0.0220	0.0365	0.4236	1.0953	0.0242	0.3243	0.0221	0.2961	
81	27.19	-0.04	0.0405	0.0020	0.0216	0.0412	0.4446	1.0783	0.0156	0.3156	0.0145	0.2927	
82	27.51	-0.04	0.0400	0.0021	0.0198	0.0525	0.4957	1.1015	0.0164	0.3206	0.0149	0.2911	
83	27.80	-0.03	0.0517	0.0021	0.0239	0.0406	0.4628	1.0629	0.0133	0.3100	0.0125	0.2916	
84	28.09	-0.05	0.0504	0.0017	0.0226	0.0347	0.4483	1.0233	0.0124	0.3014	0.0121	0.2945	
85	28.40	-0.04	0.0467	0.0017	0.0235	0.0364	0.5109	1.0463	0.0120	0.3081	0.0115	0.2944	
86	28.72	-0.04	0.0517	0.0021	0.0235	0.0416	0.4628	1.0447	0.0115	0.3067	0.0111	0.2936	
87	29.03	-0.05	0.0516	0.0020	0.0254	0.0397	0.4921	1.0459	0.0110	0.3050	0.0105	0.2916	
88	29.34	-0.04	0.0460	0.0029	0.0258	0.0630	0.5615	1.0289	0.0110	0.2992	0.0107	0.2908	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	14.0	0.92	1.7	0.0	B2HOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.75	0.01	-0.4070	0.9738	-0.0426	-0.0734	0.0090	0.1803	-2.3924	
2	-2.45	0.02	-0.3674	0.9012	0.0259	-0.0772	0.0100	0.1745	-2.4533	
3	-1.88	0.04	-0.2840	0.6735	0.0298	-0.0667	0.0100	0.1816	-2.3718	
4	-1.28	-0.01	-0.1969	0.4486	-0.0105	-0.0827	0.0130	0.1853	-2.2786	
5	-0.74	0.02	-0.0963	0.2338	0.0078	-0.0189	0.0090	0.1873	-2.4230	
6	-0.19	0.03	-0.0402	0.0763	0.0451	-0.0091	0.0110	0.1887	-1.8975	
7	0.32	0.02	0.0414	-0.0879	0.0320	-0.0068	0.0100	0.1899	-2.1246	
8	0.86	0.02	0.1184	-0.2437	0.0336	-0.0680	0.0130	0.1892	-2.0588	
9	1.33	0.03	0.1806	-0.4338	0.0905	-0.0583	0.0110	0.1877	-2.4022	
10	1.82	0.03	0.2588	-0.6312	0.0664	-0.0010	0.0130	0.1885	-2.4394	
11	2.31	0.03	0.3379	-0.8270	0.0716	-0.1042	0.0140	0.1945	-2.4476	
12	2.78	0.0	0.4164	-1.0220	0.0245	-0.0449	0.0120	0.1896	-2.4540	
13	3.27	0.0	0.5126	-1.2556	0.0431	-0.0913	0.0170	0.1882	-2.4493	
14	3.71	0.0	0.5909	-1.4532	0.0075	-0.0465	0.0210	0.1866	-2.4592	
15	4.17	0.0	0.6565	-1.6720	0.0215	-0.0127	0.0200	0.1921	-2.5468	
16	4.62	-0.01	0.7446	-1.9093	-0.0637	-0.0158	0.0200	0.1896	-2.5642	
17	5.09	0.01	0.8526	-2.2035	0.0713	0.0052	0.0190	0.1914	-2.5845	
18	5.52	0.0	0.9345	-2.4201	0.0450	-0.0450	0.0220	0.1906	-2.5898	
19	5.98	-0.02	1.0201	-2.6869	0.0223	-0.1082	0.0210	0.1921	-2.6341	
20	6.41	0.0	1.1005	-2.8755	0.0352	-0.0563	0.0230	0.1898	-2.6130	
21	6.88	0.01	1.2011	-3.2034	0.0496	0.0116	0.0220	0.1943	-2.6670	
22	7.30	-0.01	1.2918	-3.4283	0.0085	-0.0689	0.0230	0.1909	-2.6539	
23	7.73	-0.01	1.3902	-3.6721	-0.0398	-0.0043	0.0160	0.1881	-2.6614	
24	8.18	-0.03	1.4828	-3.9217	-0.0475	-0.0085	0.0220	0.1880	-2.6448	
25	8.58	0.0	1.5587	-4.1119	0.0229	0.0039	0.0190	0.1857	-2.6381	
26	8.99	-0.03	1.6421	-4.2947	-0.0626	-0.0534	0.0230	0.1883	-2.6154	
27	9.38	-0.02	1.7352	-4.5050	-0.0218	-0.0075	0.0170	0.1822	-2.5963	
28	9.81	-0.05	1.7938	-4.6920	0.0170	0.1102	0.0180	0.1779	-2.6157	
29	10.19	-0.05	1.8776	-4.9413	-0.0889	0.0884	0.0230	0.1807	-2.6318	
30	10.61	0.0	1.9767	-5.0981	0.0337	0.0798	0.0130	0.1781	-2.5791	
31	10.98	-0.03	2.0577	-5.3025	0.0021	-0.0749	0.0100	0.1774	-2.5769	
32	11.35	-0.04	2.1542	-5.5169	0.0484	0.0492	0.0180	0.1706	-2.5608	
33	11.71	-0.02	2.2119	-5.6643	0.0187	0.1008	0.0130	0.1700	-2.5608	
34	12.08	-0.03	2.2837	-5.8168	0.0094	0.0978	0.0130	0.1698	-2.5471	
35	12.46	-0.04	2.3956	-6.0505	-0.0184	0.0698	0.0110	0.1665	-2.5257	
36	12.79	-0.04	2.4852	-6.2379	0.0021	0.0491	0.0060	0.1658	-2.5100	
37	13.13	-0.03	2.5437	-6.3848	0.0131	0.1406	0.0120	0.1623	-2.5101	
38	13.50	-0.04	2.6212	-6.5352	-0.0795	0.1313	0.0100	0.1608	-2.4933	
39	13.83	-0.03	2.6994	-6.6598	0.0281	0.1886	0.0090	0.1566	-2.4671	
40	14.19	-0.04	2.7630	-6.8099	-0.0292	0.1119	0.0330	0.1547	-2.4646	
41	14.56	-0.03	2.8674	-6.9660	-0.0052	0.1743	0.0160	0.1500	-2.4294	
42	14.89	-0.04	2.9289	-7.1351	-0.0143	0.1230	0.0040	0.1491	-2.4361	
43	15.24	-0.03	2.9945	-7.2299	0.0303	0.1396	0.0070	0.1458	-2.4144	
44	15.56	-0.04	3.0845	-7.3523	0.0081	0.2236	0.0070	0.1448	-2.3867	
45	15.91	-0.04	3.1527	-7.4444	0.0437	0.1478	0.0040	0.1418	-2.3613	
46	16.23	-0.05	3.2186	-7.6166	-0.0790	0.2266	0.0040	0.1418	-2.3664	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	14	0.92	1.7	0.0	BZWF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.58	-0.05	3.3044	-7.6907	-0.0527	0.0548	-0.0030	0.1415	-2.3274	
48	16.88	-0.05	3.3515	-7.7986	-0.0768	0.2195	-0.0070	0.1404	-2.3269	
49	17.19	-0.04	3.4382	-7.9630	0.0014	0.1400	-0.0120	0.1394	-2.3161	
50	17.53	-0.05	3.4959	-8.0329	-0.0151	0.0731	-0.0170	0.1368	-2.2978	
51	17.86	-0.05	3.5653	-8.0611	0.0225	-0.0025	-0.0270	0.1372	-2.2610	
52	18.20	-0.05	3.6236	-8.1047	0.0338	-0.0033	-0.0290	0.1436	-2.2366	
53	18.54	-0.05	3.6460	-8.0100	-0.0090	0.0496	-0.0200	0.1464	-2.1969	
54	18.87	-0.06	3.7528	-8.1086	-0.0386	0.1050	-0.0240	0.1385	-2.1607	
55	19.18	-0.06	3.7831	-8.1310	0.0062	-0.0377	-0.0210	0.1379	-2.1493	
56	19.51	-0.05	3.8405	-8.2473	-0.0049	0.0419	-0.0190	0.1349	-2.1475	
57	19.84	-0.06	3.9415	-8.3617	-0.1016	0.2572	-0.0230	0.1281	-2.1215	
58	20.16	-0.04	4.0022	-8.4297	0.1190	0.0324	-0.0270	0.1179	-2.1063	
59	20.50	-0.05	4.0719	-8.5832	-0.0793	0.2370	-0.0280	0.1158	-2.1079	
60	20.84	-0.04	4.1592	-8.6284	-0.0023	0.2952	-0.0360	0.1101	-2.0746	
61	21.16	-0.05	4.2087	-8.7509	0.0764	-0.1009	-0.0250	0.1040	-2.0792	
62	21.47	-0.05	4.3043	-8.8227	0.0315	0.0029	-0.0200	0.0954	-2.0497	
63	21.78	-0.05	4.3395	-8.8630	0.0055	0.0883	-0.0340	0.0899	-2.0424	
64	22.08	-0.05	4.4149	-8.9875	0.1143	-0.1370	-0.0140	0.0869	-2.0357	
65	22.40	-0.05	4.4760	-9.0661	0.0848	-0.0607	-0.0330	0.0828	-2.0255	
66	22.71	-0.05	4.5351	-9.0438	-0.0409	0.2032	-0.0530	0.0827	-1.9942	
67	23.03	-0.05	4.6093	-9.1427	0.0581	-0.1083	-0.0140	0.0731	-1.9835	
68	23.34	-0.05	4.6222	-9.1197	0.1256	-0.2808	0.0290	0.0724	-1.9730	
69	23.64	-0.06	4.6751	-9.1468	0.1454	-0.1275	-0.0090	0.0700	-1.9565	
70	23.98	-0.08	4.7256	-9.1645	0.1051	-0.4291	0.0410	0.0640	-1.9393	
71	24.29	-0.06	4.7521	-9.1166	0.1098	-0.1617	-0.0060	0.0562	-1.9184	
72	24.61	-0.07	4.7879	-9.0077	0.0187	-0.0452	-0.0810	0.0579	-1.8814	
73	24.88	-0.06	4.8505	-9.2353	0.1406	-0.1278	-0.0230	0.0446	-1.9040	
74	25.17	-0.07	4.9015	-9.1397	0.0413	0.0142	-0.0540	0.0424	-1.8647	
75	25.45	-0.07	4.9596	-9.1231	0.1300	-0.2760	-0.0200	0.0322	-1.8395	
76	25.76	-0.07	5.0320	-9.0506	0.0858	-0.1591	-0.0870	0.0302	-1.7986	
77	26.05	-0.08	5.1321	-9.1287	0.1023	-0.3342	-0.0230	0.0145	-1.7787	
78	26.35	-0.07	5.2181	-9.1341	0.1216	-0.2572	-0.0290	0.0108	-1.7505	
79	26.66	-0.08	5.2938	-9.1351	0.0562	-0.2516	-0.0930	0.0101	-1.7256	
80	26.98	-0.08	5.4023	-9.1640	0.0486	-0.1740	-0.0690	0.0019	-1.6963	
81	27.28	-0.07	5.5171	-9.2467	0.0582	-0.2235	-0.1020	-0.0034	-1.6760	
82	27.60	-0.08	5.5775	-9.1773	0.2630	-0.7781	-0.0120	-0.0147	-1.6454	
83	27.89	-0.07	5.5735	-9.0697	0.0293	-0.0420	-0.1350	-0.0112	-1.6273	
84	28.19	-0.07	5.7463	-9.0648	-0.1760	-0.3334	-0.0870	-0.0361	-1.5775	
85	28.49	-0.10	5.7565	-9.0430	0.1660	-0.8363	-0.0460	-0.0373	-1.5709	
86	28.80	-0.09	5.7854	-8.9315	0.0647	-0.5285	-0.0490	-0.0516	-1.5438	
87	29.12	-0.03	5.7217	-8.6872	0.4302	-0.3394	-0.0290	-0.0631	-1.5183	
88	29.43	-0.03	5.8672	-8.8340	0.6349	-0.5769	-0.0400	-0.0704	-1.5057	

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	14	0.92	1.7	0.0	BZUOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CONF1	CHI	GB1	XCPF1	YCPF1	CONF2	GM2	GB2	XCPF2	YCPF2
1	-2.75	0.01	-0.0569	0.0004	0.0077	-0.0070	-0.1360	-0.1560	-0.0022	-0.0655	0.0141	0.4198
2	-2.45	0.02	-0.0585	0.0003	0.0079	-0.0060	-0.1352	-0.1448	-0.0019	-0.0615	0.0135	0.4251
3	-1.08	0.04	-0.0629	0.0002	0.0051	-0.0032	-0.0817	-0.1068	-0.0016	-0.0488	0.0154	0.4568
4	-1.28	-0.01	-0.0557	0.0002	0.0063	-0.0036	-0.1138	-0.0775	-0.0037	-0.0319	0.0097	0.4119
5	-0.74	0.02	-0.0556	0.0005	0.0092	-0.0090	-0.1650	-0.0403	-0.0032	-0.0158	0.0050	0.3928
6	-0.19	0.03	-0.0598	0.0004	0.0058	-0.0067	-0.0966	-0.0169	0.0006	-0.0059	-0.0266	0.3510
7	0.32	0.02	-0.0542	0.0003	0.0074	-0.0055	-0.1373	0.0108	0.0013	0.0053	0.1203	0.4906
8	0.86	0.02	-0.0532	0.0001	0.0089	-0.0019	-0.1668	0.0386	0.0023	0.0168	0.0609	0.4343
9	1.33	0.03	-0.0542	0.0003	0.0074	-0.0055	-0.1373	0.0696	0.0027	0.0280	0.0395	0.4022
10	1.82	0.03	-0.0475	0.0001	0.0116	-0.0021	-0.2436	0.0971	0.0037	0.0413	0.0381	0.4259
11	2.31	0.03	-0.0456	0.0002	0.0091	-0.0044	-0.1997	0.1245	0.0045	0.0547	0.0361	0.4392
12	2.78	0.0	-0.0519	0.0	0.0693	0.0	-0.1793	0.1585	0.0045	0.0671	0.0284	0.4234
13	3.27	0.0	-0.0539	-0.0004	0.0075	0.0083	-0.1399	0.1831	0.0045	0.0804	0.0246	0.4392
14	3.71	0.0	-0.0470	-0.0006	0.0093	0.0138	-0.1987	0.2130	0.0052	0.0899	0.0244	0.4219
15	4.17	0.0	-0.0507	-0.0010	0.0104	0.0207	-0.2052	0.2441	0.0046	0.1020	0.0188	0.4180
16	4.62	-0.01	-0.0455	-0.0014	0.0118	0.0319	-0.2602	0.2774	0.0060	0.1161	0.0218	0.4186
17	5.09	0.01	-0.0547	-0.0016	0.0114	0.0292	-0.2079	0.3102	0.0045	0.1272	0.0209	0.4099
18	5.52	0.0	-0.0462	-0.0026	0.0137	0.0573	-0.2767	0.3471	0.0039	0.1411	0.0170	0.4064
19	5.98	-0.02	-0.0532	-0.0032	0.0156	0.0601	-0.2927	0.3856	0.0051	0.1552	0.0133	0.4024
20	6.41	0.0	-0.0507	-0.0034	0.0161	0.0670	-0.3177	0.4068	0.0045	0.1639	0.0112	0.4028
21	6.88	0.01	-0.0555	-0.0030	0.0117	0.0549	-0.2109	0.4469	0.0034	0.1781	0.0076	0.3985
22	7.30	-0.01	-0.0540	-0.0036	0.0158	0.0676	-0.2927	0.4768	0.0025	0.1897	0.0053	0.3978
23	7.73	-0.01	-0.0574	-0.0024	0.0106	0.0427	-0.1842	0.5036	0.0020	0.2012	0.0041	0.3995
24	8.18	-0.03	-0.0605	-0.0041	0.0146	0.0686	-0.2321	0.5337	0.0025	0.2111	0.0048	0.3956
25	8.58	0.0	-0.0566	-0.0046	0.0126	0.0821	-0.2233	0.5615	0.0023	0.2180	0.0042	0.3882
26	8.99	-0.03	-0.0634	-0.0057	0.0170	0.0907	-0.2677	0.5796	0.0031	0.2263	0.0054	0.3905
27	9.38	-0.02	-0.0645	-0.0041	0.0109	0.0636	-0.1691	0.6042	0.0035	0.2333	0.0059	0.3862
28	9.81	-0.05	-0.0663	-0.0051	0.0113	0.0777	-0.1706	0.6334	0.0043	0.2399	0.0069	0.3768
29	10.19	-0.05	-0.0710	-0.0053	0.0118	0.0746	-0.1668	0.6562	0.0050	0.2482	0.0077	0.3783
30	10.61	0.0	-0.0749	-0.0058	0.0118	0.0781	-0.1581	0.6777	0.0052	0.2556	0.0077	0.3772
31	10.98	-0.03	-0.0794	-0.0051	0.0095	0.0642	-0.1252	0.7053	0.0060	0.2629	0.0086	0.3728
32	11.35	-0.04	-0.0733	-0.0065	0.0141	0.0893	-0.1920	0.7287	0.0065	0.2684	0.0090	0.3683
33	11.71	-0.02	-0.0818	-0.0066	0.0094	0.0813	-0.1154	0.7429	0.0070	0.2739	0.0094	0.3667
34	12.08	-0.03	-0.0933	-0.0063	0.0094	0.0680	-0.1009	0.7632	0.0073	0.2798	0.0096	0.3666
35	12.46	-0.04	-0.0901	-0.0079	0.0117	0.0882	-0.1296	0.7881	0.0078	0.2873	0.0100	0.3646
36	12.79	-0.04	-0.0993	-0.0065	0.0071	0.0659	-0.0716	0.8115	0.0088	0.2929	0.0109	0.3605
37	13.13	-0.03	-0.0962	-0.0072	0.0101	0.0748	-0.1055	0.8304	0.0088	0.2980	0.0106	0.3589
38	13.50	-0.04	-0.0963	-0.0066	0.0060	0.0690	-0.0624	0.8441	0.0092	0.3027	0.0110	0.3586
39	13.83	-0.03	-0.1021	-0.0082	0.0103	0.0868	-0.1007	0.8567	0.0104	0.3049	0.0121	0.3559
40	14.19	-0.04	-0.1019	-0.0067	0.0025	0.0662	-0.0250	0.8812	0.0119	0.3110	0.0135	0.3530
41	14.56	-0.03	-0.1059	-0.0088	0.0059	0.0836	-0.0558	0.8951	0.0129	0.3133	0.0145	0.3500
42	14.89	-0.04	-0.1060	-0.0049	-0.0011	0.0462	0.0106	0.9133	0.0149	0.3175	0.0163	0.3477
43	15.24	-0.03	-0.1064	-0.0076	0.0021	0.0719	-0.0202	0.9190	0.0173	0.3180	0.0188	0.3461
44	15.56	-0.04	-0.1109	-0.0075	0.0034	0.0676	-0.0311	0.9339	0.0181	0.3221	0.0194	0.3449
45	15.91	-0.04	-0.1175	-0.0071	0.0005	0.0604	-0.0347	0.9495	0.0198	0.3248	0.0209	0.3421
46	16.23	-0.05	-0.1113	-0.0068	0.0016	0.0615	-0.0145	0.9691	0.0204	0.3269	0.0210	0.3373

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACR	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	14	0.92	1.7	0.0	0.2	0.0	0.0	0.0	0.0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.58	-0.05	-0.1106	-0.0050	-0.0040	0.0452	0.0357	0.9834	0.0207	0.3325	0.0211	0.3381
48	16.88	-0.05	-0.1182	-0.0049	-0.0039	0.0419	0.0329	0.9996	0.0209	0.3362	0.0210	0.3363
49	17.19	-0.04	-0.1167	-0.0110	-0.0025	0.0942	-0.0250	1.0155	0.0205	0.3389	0.0202	0.3337
50	17.53	-0.05	-0.1209	-0.0126	-0.0046	0.1046	-0.0382	1.0188	0.0202	0.3417	0.0199	0.3354
51	17.86	-0.05	-0.1097	-0.0045	-0.0068	0.0415	0.0616	1.0470	0.0229	0.3457	0.0219	0.3302
52	18.20	-0.05	-0.1169	-0.0093	-0.0023	0.0795	-0.0201	1.0473	0.0248	0.3449	0.0237	0.3293
53	18.54	-0.05	-0.1123	-0.0025	-0.0083	0.0223	0.0741	1.0303	0.0346	0.3298	0.0336	0.3201
54	18.87	-0.06	-0.1242	-0.0110	-0.0006	0.0890	-0.0049	1.0620	0.0267	0.3466	0.0251	0.3263
55	19.18	-0.06	-0.1140	-0.0041	-0.0056	0.0364	0.0490	1.0590	0.0323	0.3419	0.0305	0.3228
56	19.51	-0.05	-0.1142	-0.0009	-0.0110	0.0083	0.0959	1.0609	0.0345	0.3404	0.0325	0.3209
57	19.84	-0.06	-0.1321	-0.0106	-0.0021	0.0806	0.0160	1.0757	0.0311	0.3463	0.0289	0.3220
58	20.16	-0.04	-0.1236	-0.0045	-0.0079	0.0368	0.0638	1.0836	0.0339	0.3455	0.0313	0.3188
59	20.50	-0.05	-0.1357	-0.0073	-0.0076	0.0542	0.0561	1.0951	0.0332	0.3491	0.0303	0.3188
60	20.84	-0.04	-0.1362	-0.0084	-0.0068	0.0620	0.0498	1.1063	0.0328	0.3536	0.0296	0.3197
61	21.16	-0.05	-0.0939	0.0035	-0.0125	-0.0373	0.1330	1.1126	0.0346	0.3521	0.0311	0.3165
62	21.47	-0.05	-0.1026	0.0029	-0.0115	-0.0283	0.1120	1.1123	0.0364	0.3472	0.0327	0.3122
63	21.78	-0.05	-0.1317	-0.0074	-0.0054	0.0562	0.0409	1.1255	0.0335	0.3578	0.0298	0.3179
64	22.08	-0.05	-0.0839	0.0055	-0.0084	-0.0655	0.1056	1.1284	0.0372	0.3526	0.0330	0.3127
65	22.40	-0.05	-0.1157	-0.0027	-0.0048	0.0238	0.0411	1.1484	0.0348	0.3574	0.0303	0.3112
66	22.71	-0.05	-0.1070	-0.0070	0.0035	0.0654	-0.0331	1.1600	0.0340	0.3646	0.0293	0.3143
67	23.03	-0.05	-0.0709	0.0031	0.0012	-0.0437	-0.0166	1.1336	0.0374	0.3445	0.0330	0.3083
68	23.34	-0.05	-0.0505	0.0075	0.0034	-0.1495	-0.0668	1.1196	0.0360	0.3433	0.0321	0.3066
69	23.64	-0.06	-0.0692	-0.0012	0.0052	0.0173	-0.0757	1.1500	0.0350	0.3579	0.0305	0.3112
70	23.98	-0.08	-0.0373	0.0075	0.0061	-0.2024	-0.1628	1.1113	0.0324	0.3364	0.0292	0.3027
71	24.29	-0.06	-0.0785	0.0015	0.0041	-0.0191	-0.0528	1.1282	0.0331	0.3455	0.0294	0.3063
72	24.61	-0.07	-0.0460	0.0055	0.0136	-0.1195	-0.2950	1.1370	0.0306	0.3389	0.0269	0.2980
73	24.88	-0.06	-0.0641	-0.0004	0.0100	0.0062	-0.1566	1.1520	0.0322	0.3523	0.0260	0.3058
74	25.17	-0.07	-0.0766	-0.0010	0.0043	0.0131	-0.0558	1.1499	0.0319	0.3558	0.0277	0.3094
75	25.45	-0.07	-0.0214	0.0098	0.0144	-0.4579	-0.6715	1.1027	0.0281	0.3261	0.0255	0.2958
76	25.76	-0.07	-0.0944	-0.0017	0.0022	0.0185	-0.0238	1.1697	0.0311	0.3543	0.0266	0.3029
77	26.05	-0.08	-0.0540	0.0004	0.0116	-0.0083	-0.2149	1.1568	0.0301	0.3500	0.0260	0.3025
78	26.35	-0.07	-0.0936	-0.0051	0.0011	0.0545	-0.0119	1.1922	0.0313	0.3697	0.0262	0.3101
79	26.66	-0.08	-0.0981	-0.0048	0.0058	0.0489	-0.0592	1.2189	0.0306	0.3710	0.0251	0.3043
80	26.98	-0.08	-0.0933	-0.0077	0.0031	0.0831	-0.0333	1.2416	0.0325	0.3824	0.0262	0.3080
81	27.28	-0.07	-0.0491	-0.0064	0.0296	0.1313	-0.6036	1.2493	0.0302	0.3790	0.0242	0.3034
82	27.60	-0.08	0.0377	-0.0058	0.0698	-0.1551	1.8531	1.2262	0.0276	0.3708	0.0225	0.3024
83	27.89	-0.07	-0.0860	-0.0095	0.0114	0.1104	-0.1331	1.2621	0.0292	0.3836	0.0231	0.3040
84	28.19	-0.07	-0.0592	-0.0101	0.0288	0.1706	-0.4860	1.2563	0.0294	0.3813	0.0234	0.3035
85	28.49	-0.10	0.0115	-0.0082	0.0690	-0.7129	6.0028	1.2405	0.0261	0.3749	0.0211	0.3022
86	28.80	-0.09	-0.0201	-0.0079	0.0518	0.3930	-2.5772	1.2254	0.0255	0.3677	0.0208	0.3001
87	29.12	-0.03	0.0144	-0.0071	0.0620	-0.4930	4.3054	1.2213	0.0254	0.3697	0.0208	0.3027
88	29.43	-0.03	0.0287	-0.0069	0.0710	-0.2404	2.4726	1.2139	0.0236	0.3635	0.0194	0.2994

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	14.0	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	0.01	-0.0102	0.0011	0.0009	-0.1127	-0.0884	-0.1549	-0.0034	-0.0630	0.0223	0.4068
2	-2.45	0.02	-0.0133	0.0011	-0.0001	-0.0865	-0.0099	-0.1436	-0.0031	-0.0601	0.0216	0.4189
3	-1.88	0.04	-0.0102	0.0011	0.0009	-0.1078	-0.0884	-0.0976	-0.0023	-0.0429	0.0241	0.4398
4	-1.28	-0.01	-0.0041	0.0016	0.0001	-0.3902	-0.0326	-0.0656	-0.0015	-0.0273	0.0229	0.4155
5	-0.74	0.02	-0.0090	0.0017	0.0005	-0.1544	-0.0557	-0.0337	-0.0009	-0.0150	0.0267	0.4460
6	-0.19	0.03	-0.0057	0.0015	0.0004	-0.2631	-0.0703	-0.0067	-0.0004	-0.0014	0.0597	0.2138
7	0.32	0.02	-0.0103	0.0012	0.0007	-0.1213	-0.0648	0.0283	0.0	0.0086	0.0	0.3049
8	0.86	0.02	-0.0087	0.0012	0.0005	-0.1437	-0.0576	0.0576	0.0010	0.0229	0.0174	0.3975
9	1.33	0.03	-0.0039	0.0010	0.0012	-0.2564	-0.3078	0.0893	0.0012	0.0325	0.0134	0.3634
10	1.82	0.03	-0.0005	0.0008	0.0000	-1.5997	-0.0668	0.1181	0.0017	0.0461	0.0144	0.3908
11	2.31	0.03	0.0050	0.0013	0.0032	0.2700	0.6332	0.1502	0.0024	0.0608	0.0160	0.4051
12	2.78	0.0	0.0005	0.0012	0.0024	2.4596	4.7332	0.1800	0.0024	0.0725	0.0136	0.4027
13	3.27	0.0	-0.0038	0.0009	0.0012	-0.2500	-0.3247	0.2159	0.0023	0.0876	0.0109	0.4059
14	3.71	0.0	-0.0039	0.0008	0.0023	-0.2051	-0.5899	0.2505	0.0024	0.0988	0.0098	0.3943
15	4.17	0.0	-0.0009	0.0009	0.0025	-1.0554	-2.7779	0.2816	0.0023	0.1110	0.0083	0.3543
16	4.62	-0.01	0.0019	0.0011	0.0046	0.6052	2.4385	0.3170	0.0031	0.1237	0.0099	0.3903
17	5.09	0.01	0.0018	0.0012	0.0052	0.6943	2.8888	0.3572	0.0040	0.1380	0.0113	0.3864
18	5.52	0.0	0.0002	0.0013	0.0046	6.7488	22.8332	0.3880	0.0037	0.1501	0.0095	0.3868
19	5.98	-0.02	-0.0015	0.0014	0.0053	-0.9665	-3.5334	0.4237	0.0034	0.1622	0.0081	0.3828
20	6.41	0.0	-0.0031	0.0013	0.0066	-0.4193	-2.1184	0.4469	0.0020	0.1736	0.0045	0.3885
21	6.88	0.01	0.0015	0.0013	0.0071	0.8998	4.7332	0.4973	0.0009	0.1892	0.0018	0.3805
22	7.30	-0.01	0.0001	0.0013	0.0051	13.4976	51.3332	0.5181	0.0001	0.1997	0.0002	0.3855
23	7.73	-0.01	0.0049	0.0010	0.0067	0.2040	1.3740	0.5516	0.0006	0.2107	0.0011	0.3820
24	8.16	-0.03	0.0017	0.0012	0.0060	0.7352	3.5097	0.5845	0.0007	0.2216	0.0012	0.3791
25	8.58	0.0	0.0016	0.0013	0.0062	0.8436	3.8957	0.6040	0.0013	0.2287	0.0022	0.3786
26	8.99	-0.03	0.0075	0.0014	0.0086	0.1866	1.1465	0.6370	0.0014	0.2370	0.0022	0.3721
27	9.38	-0.02	0.0029	0.0014	0.0075	0.4999	2.5746	0.6563	0.0018	0.2439	0.0028	0.3716
28	9.81	-0.05	0.0062	0.0011	0.0074	0.1855	1.1881	0.6829	0.0032	0.2526	0.0048	0.3700
29	10.19	-0.05	0.0060	0.0012	0.0085	0.2083	1.4165	0.7166	0.0039	0.2619	0.0054	0.3654
30	10.61	0.0	0.0059	0.0013	0.0093	0.2203	1.5705	0.7343	0.0043	0.2660	0.0059	0.3622
31	10.98	-0.03	0.0027	0.0012	0.0102	0.4629	3.7117	0.7547	0.0047	0.2737	0.0062	0.3603
32	11.35	-0.04	0.0029	0.0012	0.0086	0.4310	2.9539	0.7787	0.0061	0.2804	0.0079	0.3601
33	11.71	-0.02	0.0074	0.0014	0.0097	0.1959	1.3062	0.7988	0.0060	0.2879	0.0076	0.3604
34	12.08	-0.03	0.0075	0.0014	0.0083	0.1933	1.1065	0.8238	0.0061	0.2940	0.0074	0.3569
35	12.46	-0.04	0.0055	0.0015	0.0120	0.2727	2.1878	0.8481	0.0065	0.3018	0.0077	0.3558
36	12.79	-0.04	0.0162	0.0015	0.0135	0.0526	0.8332	0.8721	0.0069	0.3062	0.0079	0.3511
37	13.13	-0.03	0.0026	0.0014	0.0102	0.5576	3.9101	0.8945	0.0074	0.3144	0.0083	0.3514
38	13.50	-0.04	0.0104	0.0013	0.0105	0.1298	1.0063	0.9126	0.0074	0.3194	0.0081	0.3500
39	13.83	-0.03	0.0165	0.0009	0.0135	0.0576	0.8161	0.9357	0.0089	0.3244	0.0095	0.3467
40	14.19	-0.04	0.0136	0.0010	0.0116	0.0735	0.8553	0.9442	0.0084	0.3277	0.0089	0.3471
41	14.56	-0.03	0.0224	0.0014	0.0145	0.0647	0.6457	0.9752	0.0103	0.3358	0.0106	0.3443
42	14.89	-0.04	0.0115	0.0014	0.0140	0.1261	1.2202	0.9818	0.0111	0.3367	0.0114	0.3429
43	15.24	-0.03	0.0163	0.0011	0.0151	0.0705	0.9283	1.0062	0.0119	0.3412	0.0118	0.3391
44	15.56	-0.04	0.0136	0.0010	0.0117	0.0735	0.8626	1.0189	0.0142	0.3439	0.0140	0.3375
45	15.91	-0.04	0.0163	0.0011	0.0151	0.0705	0.9283	1.0318	0.0163	0.3453	0.0158	0.3347
46	16.23	-0.05	0.0117	0.0013	0.0130	0.1154	1.1110	1.0433	0.0181	0.3468	0.0173	0.3324

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		14		0.92		1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	16.58	-0.05	0.0242	0.0011	0.0146	0.0475	0.6018	1.0472	0.0188	0.3485	0.0179	0.3328		
48	16.88	-0.05	0.0209	0.0012	0.0158	0.0548	0.7543	1.0630	0.0202	0.3508	0.0190	0.3300		
49	17.19	-0.04	0.0209	0.0012	0.0158	0.0598	0.7543	1.0656	0.0268	0.3447	0.0252	0.3235		
50	17.53	-0.05	0.0211	0.0008	0.0157	0.0403	0.7455	1.0695	0.0282	0.3456	0.0264	0.3231		
51	17.86	-0.05	0.0229	0.0007	0.0147	0.0327	0.6433	1.0946	0.0255	0.3498	0.0233	0.3196		
52	18.20	-0.05	0.0225	0.0015	0.0137	0.0667	0.6088	1.0752	0.0351	0.3389	0.0326	0.3152		
53	18.54	-0.05	0.0270	0.0014	0.0155	0.0537	0.5888	1.0908	0.0323	0.3437	0.0296	0.3151		
54	18.87	-0.06	0.0273	0.0012	0.0151	0.0456	0.5530	1.1001	0.0352	0.3442	0.0320	0.3129		
55	19.18	-0.06	0.0317	0.0015	0.0162	0.0489	0.5099	1.1101	0.0344	0.3466	0.0310	0.3122		
56	19.51	-0.05	0.0268	0.0014	0.0178	0.0541	0.6653	1.1219	0.0334	0.3500	0.0298	0.3120		
57	19.84	-0.06	0.0228	0.0009	0.0148	0.0417	0.6490	1.1306	0.0340	0.3480	0.0301	0.3078		
58	20.16	-0.04	0.0318	0.0011	0.0181	0.0362	0.5691	1.1372	0.0328	0.3531	0.0289	0.3105		
59	20.50	-0.05	0.0259	0.0008	0.0161	0.0328	0.6228	1.1440	0.0336	0.3529	0.0294	0.3085		
60	20.84	-0.04	0.0273	0.0010	0.0168	0.0385	0.6153	1.1532	0.0350	0.3507	0.0304	0.3041		
61	21.16	-0.05	0.0334	0.0011	0.0188	0.0344	0.5638	1.1652	0.0320	0.3605	0.0275	0.3094		
62	21.47	-0.05	0.0347	0.0013	0.0198	0.0389	0.5695	1.1761	0.0326	0.3622	0.0278	0.3080		
63	21.78	-0.05	0.0318	0.0013	0.0182	0.0409	0.5722	1.1537	0.0366	0.3491	0.0319	0.3026		
64	22.08	-0.05	0.0360	0.0017	0.0208	0.0472	0.5777	1.1899	0.0336	0.3633	0.0282	0.3053		
65	22.40	-0.05	0.0320	0.0011	0.0182	0.0359	0.5676	1.1614	0.0346	0.3512	0.0298	0.3024		
66	22.71	-0.05	0.0262	0.0009	0.0156	0.0343	0.5466	1.1518	0.0355	0.3392	0.0308	0.2945		
67	23.03	-0.05	0.0349	0.0012	0.0198	0.0358	0.5682	1.1933	0.0366	0.3599	0.0307	0.3016		
68	23.34	-0.05	0.0394	0.0016	0.0198	0.0406	0.5033	1.2024	0.0346	0.3627	0.0288	0.3016		
69	23.64	-0.06	0.0380	0.0014	0.0201	0.0368	0.5280	1.1404	0.0314	0.3416	0.0276	0.2995		
70	23.98	-0.08	0.0333	0.0016	0.0184	0.0480	0.5674	1.1874	0.0321	0.3608	0.0270	0.3038		
71	24.29	-0.06	0.0379	0.0013	0.0211	0.0356	0.5575	1.1565	0.0298	0.3434	0.0258	0.2969		
72	24.61	-0.07	0.0422	0.0018	0.0234	0.0426	0.5536	1.1850	0.0286	0.3393	0.0242	0.2863		
73	24.88	-0.06	0.0411	0.0013	0.0211	0.0328	0.5133	1.1404	0.0285	0.3392	0.0250	0.2974		
74	25.17	-0.07	0.0342	0.0011	0.0204	0.0301	0.5348	1.1490	0.0275	0.3344	0.0240	0.2910		
75	25.45	-0.07	0.0441	0.0016	0.0225	0.0363	0.5101	1.2100	0.0295	0.3522	0.0244	0.2911		
76	25.76	-0.07	0.0427	0.0015	0.0218	0.0363	0.5112	1.1322	0.0250	0.3264	0.0221	0.2883		
77	26.05	-0.08	0.0427	0.0014	0.0235	0.0328	0.5510	1.1474	0.0244	0.3346	0.0213	0.2916		
78	26.35	-0.07	0.0475	0.0011	0.0246	0.0242	0.5058	1.1252	0.0231	0.3281	0.0206	0.2916		
79	26.66	-0.08	0.0457	0.0014	0.0234	0.0306	0.5126	1.1237	0.0214	0.3254	0.0190	0.2896		
80	26.98	-0.08	0.0487	0.0015	0.0244	0.0308	0.5016	1.1207	0.0189	0.3255	0.0169	0.2905		
81	27.28	-0.07	0.0517	0.0014	0.0253	0.0280	0.4899	1.1304	0.0206	0.3258	0.0182	0.2882		
82	27.60	-0.08	0.0423	0.0013	0.0245	0.0319	0.5791	1.1333	0.0218	0.3280	0.0192	0.2895		
83	27.89	-0.07	0.0457	0.0010	0.0232	0.0230	0.5083	1.1183	0.0132	0.3214	0.0118	0.2874		
84	28.19	-0.07	0.0420	0.0017	0.0245	0.0405	0.5832	1.1193	0.0141	0.3257	0.0126	0.2910		
85	28.49	-0.10	0.0523	0.0024	0.0280	0.0468	0.5359	1.1216	0.0097	0.3243	0.0087	0.2892		
86	28.80	-0.09	0.0515	0.0014	0.0270	0.0482	0.5235	1.1180	0.0102	0.3234	0.0092	0.2893		
87	29.12	-0.03	0.0560	0.0018	0.0286	0.0330	0.5100	1.1080	0.0083	0.3231	0.0075	0.2916		
88	29.43	-0.03	0.0560	0.0017	0.0306	0.0304	0.5457	1.0932	0.0079	0.3169	0.0072	0.2899		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	15	0.97	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.74	-0.01	-0.4315	1.1281	-0.1176	-0.0194	0.0120	0.2431	-2.6141	
2	-2.56	0.02	-0.4406	1.0688	0.0308	-0.0841	0.0100	0.2384	-2.4256	
3	-1.95	-0.03	-0.3005	0.7716	0.0446	-0.1924	0.0140	0.2404	-2.5681	
4	-1.36	-0.08	-0.2123	0.5162	0.0021	-0.0499	0.0110	0.2451	-2.4316	
5	-0.78	0.04	-0.1219	0.3036	0.0005	-0.0887	0.0100	0.2483	-2.4911	
6	-0.26	0.04	-0.0513	0.1208	0.0058	-0.0321	0.0080	0.2480	-2.3552	
7	0.28	0.05	0.0568	-0.1355	0.0483	-0.0126	0.0100	0.2513	-2.3859	
8	0.77	0.02	0.1018	-0.2915	0.1281	-0.1083	0.0130	0.2585	-2.8637	
9	1.29	0.03	0.1829	-0.4250	0.0613	-0.1168	0.0200	0.2623	-2.3240	
10	1.77	-0.03	0.3017	-0.7263	-0.0176	-0.0823	0.0160	0.2629	-2.4076	
11	2.23	-0.04	0.3647	-0.9075	-0.0144	-0.0128	0.0120	0.2635	-2.4886	
12	2.72	0.01	0.4511	-1.1515	0.0073	-0.1022	0.0130	0.2657	-2.5525	
13	3.19	0.01	0.5243	-1.3770	0.0868	-0.1185	0.0150	0.2620	-2.6262	
14	3.68	0.0	0.6151	-1.5911	-0.0189	-0.0735	0.0150	0.2664	-2.5866	
15	4.13	0.0	0.7052	-1.7882	-0.0292	-0.0301	0.0190	0.2702	-2.5357	
16	4.59	0.05	0.8045	-2.0792	0.0686	-0.0270	0.0150	0.2706	-2.5844	
17	5.03	-0.06	0.9137	-2.3300	0.0887	0.0208	0.0160	0.2644	-2.5501	
18	5.48	-0.08	0.9657	-2.5228	-0.0099	-0.1061	0.0180	0.2721	-2.6125	
19	5.92	-0.01	1.0533	-2.7404	-0.0165	-0.0513	0.0160	0.2719	-2.6018	
20	6.37	0.02	1.1257	-2.9107	-0.0153	-0.0616	0.0190	0.2763	-2.5858	
21	6.82	-0.06	1.2237	-3.1460	-0.0155	-0.0503	0.0170	0.2723	-2.5708	
22	7.25	-0.02	1.3122	-3.3629	-0.0309	-0.0907	0.0200	0.2788	-2.5628	
23	7.68	-0.04	1.3946	-3.6052	-0.0041	0.0287	0.0160	0.2751	-2.5851	
24	8.11	0.0	1.4761	-3.7723	0.0128	-0.0649	0.0150	0.2731	-2.5556	
25	8.56	-0.01	1.5631	-3.9901	0.0819	-0.0177	0.0230	0.2611	-2.5527	
26	8.95	-0.03	1.6235	-4.1496	-0.0516	-0.0118	0.0190	0.2640	-2.5560	
27	9.34	-0.07	1.7225	-4.3662	0.1256	-0.0288	0.0200	0.2579	-2.5348	
28	9.77	-0.05	1.7958	-4.5428	-0.0788	-0.0257	0.0200	0.2497	-2.5297	
29	10.15	-0.02	1.8304	-4.6312	-0.0231	0.1333	0.0170	0.2406	-2.5302	
30	10.57	-0.04	1.9736	-4.9008	0.0190	-0.0406	0.0230	0.2334	-2.4831	
31	10.94	-0.03	2.0369	-5.0314	0.0293	0.0690	0.0140	0.2240	-2.4701	
32	11.30	-0.04	2.0853	-5.1952	0.0631	0.1536	0.0110	0.2284	-2.4913	
33	11.66	-0.04	2.1431	-5.3571	-0.1111	-0.0095	0.0390	0.2222	-2.4997	
34	12.02	-0.09	2.3018	-5.6242	-0.0451	0.1401	0.0070	0.2239	-2.4434	
35	12.40	-0.06	2.3187	-5.6479	0.0089	0.1465	0.0180	0.2171	-2.4358	
36	12.76	-0.04	2.4509	-5.9459	-0.0249	0.1468	0.0140	0.2166	-2.4260	
37	13.12	-0.05	2.5363	-6.1424	0.0176	0.0694	0.0060	0.2159	-2.4218	
38	13.45	-0.06	2.5694	-6.2308	-0.1044	0.1591	0.0040	0.2101	-2.4250	
39	13.82	-0.02	2.6789	-6.4152	-0.0314	0.1869	0.0040	0.2077	-2.3947	
40	14.19	-0.05	2.7758	-6.5828	0.0451	0.3168	0.0040	0.2069	-2.3715	
41	14.51	-0.05	2.8346	-6.7751	-0.0908	0.1601	0.0040	0.2060	-2.3901	
42	14.85	-0.06	2.8876	-6.8743	-0.0907	0.1740	-0.0010	0.2053	-2.3806	
43	15.19	-0.05	2.9905	-7.0683	-0.0906	0.3038	0.0030	0.2075	-2.3636	
44	15.53	-0.05	3.0691	-7.1404	0.0640	0.2274	0.0050	0.1983	-2.3265	
45	15.85	-0.03	3.1814	-7.3476	-0.0852	0.3402	0.0070	0.2061	-2.3095	
46	16.20	-0.06	3.2091	-7.4473	-0.0646	0.1824	-0.0070	0.2066	-2.3207	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	15	0.97	1.7	0.0	82WUFL2	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.53	-0.06	3.3150	-7.5566	0.0136	-0.0620	-0.0100	0.2006	-2.2795	
48	16.85	-0.04	3.3960	-7.6020	-0.0117	0.3093	-0.0060	0.1894	-2.2385	
49	17.18	-0.07	3.4618	-7.7912	-0.0049	0.0828	-0.0100	0.1941	-2.2506	
50	17.50	-0.04	3.5182	-7.8731	0.0258	0.1309	-0.0160	0.1880	-2.2378	
51	17.85	-0.05	3.5966	-8.0159	-0.0402	0.2872	-0.0120	0.1845	-2.2287	
52	18.18	-0.07	3.6790	-8.1212	-0.0705	0.2507	-0.0170	0.1749	-2.2074	
53	18.53	-0.03	3.7960	-8.2330	0.0026	0.3023	-0.0210	0.1717	-2.1689	
54	18.85	-0.06	3.8481	-8.3499	-0.1211	0.2865	-0.0170	0.1645	-2.1699	
55	19.18	-0.06	3.9691	-8.4743	0.0183	0.2463	-0.0240	0.1597	-2.1351	
56	19.49	-0.06	4.0207	-8.5566	-0.0021	0.1189	-0.0200	0.1470	-2.1281	
57	19.82	-0.05	4.1182	-8.6530	0.0083	0.1294	-0.0230	0.1476	-2.1012	
58	20.16	-0.06	4.1988	-8.7759	-0.0698	0.1117	-0.0170	0.1491	-2.0901	
59	20.47	-0.06	4.2500	-8.8327	0.0	0.1850	-0.0220	0.1346	-2.0743	
60	20.83	-0.06	4.4510	-8.9771	-0.0828	0.0749	-0.0240	0.1359	-2.0169	
61	21.14	-0.03	4.4604	-8.9522	0.1165	0.0749	-0.0410	0.1298	-2.0070	
62	21.47	-0.07	4.5534	-9.0114	-0.0552	0.2073	-0.0420	0.1235	-1.9791	
63	21.78	-0.07	4.6066	-9.1039	0.0095	-0.0173	-0.0390	0.1212	-1.9763	
64	22.09	-0.07	4.6510	-9.1050	0.0420	0.0012	-0.0370	0.1213	-1.9577	
65	22.41	-0.07	4.7074	-9.0540	0.0435	-0.1599	-0.0390	0.1254	-1.9234	
66	22.72	-0.05	4.7351	-9.0358	0.1101	-0.1461	-0.0100	0.1209	-1.9083	
67	23.05	-0.06	4.8176	-8.9923	0.1156	-0.1758	-0.0030	0.1179	-1.8666	
68	23.35	-0.05	4.8639	-9.0741	0.1759	-0.0473	-0.0270	0.1126	-1.8656	
69	23.67	-0.04	4.9091	-9.0494	0.1962	-0.2856	-0.0040	0.1027	-1.8434	
70	24.02	-0.09	5.0333	-8.9574	-0.0538	0.1083	-0.0550	0.0988	-1.7796	
71	24.30	-0.08	4.9457	-8.7917	0.0671	-0.1159	-0.0560	0.0930	-1.7777	
72	24.65	-0.05	5.1885	-8.8597	0.1445	0.0227	-0.0710	0.0958	-1.7076	
73	24.95	-0.09	5.2566	-8.7401	0.0034	-0.0118	-0.0570	0.0878	-1.6627	
74	25.28	-0.07	5.3843	-8.6389	0.0957	0.0720	-0.0900	0.0812	-1.6045	
75	25.58	-0.08	5.3776	-8.4675	0.0279	-0.1680	-0.0640	0.0756	-1.5746	
76	25.87	-0.07	5.4222	-8.4600	0.0536	-0.2010	-0.0440	0.0621	-1.5602	
77	26.17	-0.07	5.5398	-8.3566	0.1359	-0.1552	-0.0060	0.0548	-1.5085	
78	26.48	-0.08	5.5411	-8.0295	0.1442	-0.3868	-0.0620	0.0503	-1.4491	
79	26.79	-0.07	5.6002	-7.9942	0.0655	-0.1707	-0.0580	0.0435	-1.4275	
80	27.10	-0.07	5.6942	-7.9408	0.2317	-0.3813	-0.0390	0.0356	-1.3946	
81	27.43	-0.05	5.7455	-7.8458	0.1077	0.0592	-0.1170	0.0359	-1.3655	
82	27.72	-0.08	5.8360	-7.8165	0.1483	-0.3016	-0.0680	0.0283	-1.3393	
83	28.05	-0.07	5.9492	-7.7010	0.0845	-0.0983	-0.0680	0.0214	-1.2945	
84	28.35	-0.07	5.9764	-7.5901	0.2170	-0.5397	-0.0490	0.0136	-1.2700	
85	28.66	-0.07	6.0749	-7.6870	0.0812	-0.1737	-0.0500	0.0071	-1.2654	
86	28.97	-0.09	6.1646	-7.5726	0.1414	-0.3299	-0.0530	-0.0011	-1.2284	
87	29.29	-0.09	6.2848	-7.5459	0.0911	-0.2755	-0.0600	-0.0072	-1.2013	
88	29.60	-0.07	6.3965	-7.7032	0.2426	-0.3706	-0.0620	-0.0116	-1.2044	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION		
6	15	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CM2	C82	XCPF2	YCPF2
1	-2.74	-0.01	-0.0425	-0.0001	0.0084	0.0035	-0.1986	-0.1595	0.0007	-0.0741	-0.0047	0.4649
2	-2.56	0.02	-0.0552	0.0000	0.0030	-0.0009	-0.0545	-0.1523	0.0007	-0.0689	-0.0049	0.4527
3	-1.95	-0.03	-0.0402	-0.0002	0.0112	0.0062	-0.2787	-0.1075	0.0006	-0.0493	-0.0056	0.4588
4	-1.36	-0.08	-0.0447	0.0001	0.0077	-0.0034	-0.1724	-0.0724	0.0005	-0.0375	-0.0076	0.5183
5	-0.78	0.04	-0.0492	-0.0000	0.0080	0.0010	-0.1627	-0.0349	-0.0001	-0.0234	0.0043	0.6713
6	-0.26	0.04	-0.0436	0.0000	0.0093	-0.0011	-0.2127	-0.0116	0.0000	-0.0100	-0.0043	0.8591
7	0.28	0.05	-0.0442	-0.0002	0.0101	0.0057	-0.2279	0.0283	0.0005	0.0051	0.0177	0.1813
8	0.77	0.02	-0.0490	-0.0001	0.0066	0.0031	-0.1341	0.0598	0.0001	0.0147	0.0025	0.2463
9	1.29	0.03	-0.0348	0.0000	0.0153	-0.0014	-0.4398	0.0775	0.0002	0.0235	0.0032	0.3035
10	1.77	-0.03	-0.0388	-0.0002	0.0118	0.0052	-0.3034	0.1247	-0.0001	0.0445	-0.0012	0.3573
11	2.23	-0.04	-0.0466	-0.0001	0.0096	0.0032	-0.2054	0.1505	0.0	0.0540	0.0	0.3591
12	2.72	0.01	-0.0446	-0.0005	0.0110	0.0112	-0.2475	0.1863	-0.0001	0.0700	-0.0005	0.3756
13	3.19	0.01	-0.0395	-0.0006	0.0128	0.0152	-0.3250	0.2130	-0.0001	0.0813	-0.0005	0.3816
14	3.68	0.0	-0.0401	-0.0010	0.0129	0.0249	-0.3226	0.2499	-0.0002	0.0970	-0.0008	0.3800
15	4.13	0.0	-0.0463	-0.0010	0.0090	0.0216	-0.1938	0.2833	0.0001	0.1068	0.0004	0.3770
16	4.59	0.05	-0.0445	-0.0015	0.0098	0.0348	-0.2196	0.3164	0.0001	0.1213	0.0003	0.3835
17	5.03	-0.06	-0.0453	-0.0020	0.0100	0.0441	-0.2209	0.3445	0.0001	0.1335	0.0004	0.3875
18	5.48	-0.08	-0.0437	-0.0026	0.0120	0.0595	-0.2755	0.3783	0.0001	0.1439	0.0003	0.3803
19	5.92	-0.01	-0.0444	-0.0024	0.0099	0.0540	-0.2231	0.4040	0.0	0.1547	0.0	0.3830
20	6.37	0.02	-0.0444	-0.0030	0.0122	0.0687	-0.2749	0.4377	0.0003	0.1669	0.0008	0.3812
21	6.82	-0.06	-0.0469	-0.0030	0.0104	0.0650	-0.2212	0.4660	0.0002	0.1762	0.0004	0.3781
22	7.25	-0.02	-0.0536	-0.0030	0.0092	0.0569	-0.1724	0.4923	0.0001	0.1840	0.0002	0.3738
23	7.68	-0.04	-0.0542	-0.0026	0.0092	0.0480	-0.1705	0.5219	0.0001	0.1963	0.0003	0.3761
24	8.11	0.0	-0.0525	-0.0039	0.0111	0.0752	-0.2115	0.5455	0.0001	0.2039	0.0002	0.3737
25	8.56	-0.01	-0.0521	-0.0044	0.0125	0.0854	-0.2407	0.5706	0.0	0.2111	0.0	0.3700
26	8.95	-0.03	-0.0545	-0.0044	0.0114	0.0807	-0.2099	0.5911	-0.0002	0.2184	-0.0003	0.3694
27	9.34	-0.07	-0.0567	-0.0040	0.0116	0.0705	-0.2047	0.6250	0.0001	0.2268	0.0002	0.3660
28	9.77	-0.05	-0.0629	-0.0045	0.0114	0.0723	-0.1819	0.6367	0.0002	0.2328	0.0003	0.3657
29	10.15	-0.02	-0.0696	-0.0046	0.0099	0.0661	-0.1424	0.6524	0.0008	0.2378	0.0013	0.3645
30	10.57	-0.04	-0.0637	-0.0057	0.0127	0.0903	-0.1990	0.6873	0.0008	0.2493	0.0012	0.3627
31	10.94	-0.03	-0.0700	-0.0048	0.0098	0.0686	-0.1396	0.6996	0.0012	0.2520	0.0018	0.3602
32	11.30	-0.04	-0.0800	-0.0052	0.0081	0.0656	-0.1018	0.7233	0.0017	0.2592	0.0024	0.3584
33	11.66	-0.04	-0.0875	-0.0042	0.0041	0.0466	-0.0474	0.7452	0.0023	0.2645	0.0031	0.3550
34	12.02	-0.09	-0.0840	-0.0045	0.0045	0.0536	-0.0537	0.7736	0.0021	0.2748	0.0028	0.3552
35	12.40	-0.06	-0.0885	-0.0070	0.0087	0.0796	-0.0984	0.7778	0.0018	0.2750	0.0024	0.3535
36	12.76	-0.04	-0.0855	-0.0051	0.0083	0.0602	-0.0972	0.8143	0.0011	0.2865	0.0014	0.3519
37	13.12	-0.05	-0.0946	-0.0060	0.0030	0.0635	-0.0315	0.8335	0.0011	0.2920	0.0013	0.3504
38	13.45	-0.06	-0.0942	-0.0058	0.0035	0.0616	-0.0373	0.8499	0.0002	0.2952	0.0003	0.3473
39	13.82	-0.02	-0.0990	-0.0061	0.0042	0.0621	-0.0425	0.8739	0.0002	0.3021	0.0003	0.3457
40	14.19	-0.05	-0.1003	-0.0070	0.0031	0.0703	-0.0307	0.8864	0.0004	0.3070	0.0005	0.3463
41	14.51	-0.05	-0.1029	-0.0070	0.0017	0.0685	-0.0166	0.9041	0.0009	0.3100	0.0011	0.3428
42	14.85	-0.06	-0.1071	-0.0057	-0.0028	0.0537	0.0260	0.9270	0.0010	0.3174	0.0011	0.3424
43	15.19	-0.05	-0.1037	-0.0060	-0.0008	0.0578	0.0073	0.9431	0.0006	0.3220	0.0006	0.3414
44	15.53	-0.05	-0.1119	-0.0076	0.0005	0.0679	-0.0046	0.9567	0.0016	0.3238	0.0017	0.3384
45	15.85	-0.03	-0.1175	-0.0070	-0.0013	0.0600	0.0107	0.9796	0.0017	0.3290	0.0018	0.3359
46	16.20	-0.06	-0.1187	-0.0033	-0.0094	0.0278	0.0788	0.9986	0.0027	0.3320	0.0028	0.3324

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15	0.97	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.53	-0.06	-0.1158	-0.0032	-0.0082	0.0281	0.0707	1.0054	0.0031	0.3363	0.0031	0.3345
48	16.85	-0.04	-0.1337	-0.0067	-0.0075	0.0505	0.0595	1.0127	0.0038	0.3373	0.0038	0.3330
49	17.18	-0.07	-0.1236	-0.0046	-0.0064	0.0372	0.0517	1.0275	0.0039	0.3397	0.0038	0.3306
50	17.50	-0.04	-0.1081	0.0011	-0.0147	-0.0102	0.1362	1.0541	0.0058	0.3460	0.0055	0.3283
51	17.85	-0.05	-0.1227	-0.0035	-0.0121	0.0289	0.0985	1.0610	0.0049	0.3471	0.0047	0.3272
52	18.18	-0.07	-0.1129	-0.0009	-0.0145	0.0084	0.1286	1.0807	0.0055	0.3527	0.0051	0.3246
53	18.53	-0.03	-0.1304	-0.0039	-0.0120	0.0303	0.0924	1.0975	0.0049	0.3551	0.0045	0.3236
54	18.85	-0.06	-0.1184	-0.0017	-0.0130	0.0144	0.1094	1.1117	0.0053	0.3598	0.0048	0.3237
55	19.18	-0.06	-0.1301	-0.0021	-0.0131	0.0161	0.1011	1.1247	0.0049	0.3637	0.0044	0.3233
56	19.49	-0.06	-0.1236	-0.0007	-0.0160	0.0057	0.1293	1.1398	0.0056	0.3677	0.0049	0.3226
57	19.82	-0.05	-0.1240	0.0005	-0.0163	-0.0061	0.1324	1.1576	0.0057	0.3708	0.0049	0.3203
58	20.16	-0.06	-0.1200	0.0003	-0.0202	-0.0029	0.1682	1.1724	0.0051	0.3755	0.0044	0.3203
59	20.47	-0.06	-0.1154	0.0007	-0.0197	-0.0061	0.1712	1.1863	0.0055	0.3775	0.0045	0.3188
60	20.83	-0.06	-0.1284	0.0003	-0.0154	-0.0023	0.1510	1.2004	0.0050	0.3830	0.0042	0.3191
61	21.14	-0.03	-0.1067	0.0021	-0.0173	-0.0201	0.1617	1.2081	0.0064	0.3828	0.0053	0.3168
62	21.47	-0.07	-0.1019	0.0035	-0.0159	-0.0348	0.1556	1.2301	0.0066	0.3862	0.0054	0.3140
63	21.78	-0.07	-0.0766	0.0055	-0.0071	-0.0718	0.0930	1.2370	0.0099	0.3847	0.0080	0.3110
64	22.09	-0.07	-0.0694	0.0043	-0.0040	-0.0619	0.0580	1.2427	0.0107	0.3876	0.0086	0.3119
65	22.41	-0.07	-0.0570	0.0035	0.0017	-0.0693	-0.0299	1.2244	0.0186	0.3730	0.0152	0.3046
66	22.72	-0.05	-0.0589	-0.0013	0.0045	0.0229	-0.0327	1.2339	0.0181	0.3758	0.0147	0.3045
67	23.05	-0.06	-0.0562	0.0019	0.0013	-0.0338	-0.0227	1.2309	0.0197	0.3718	0.0160	0.3020
68	23.35	-0.05	-0.0648	0.0031	-0.0024	-0.0486	0.0369	1.2389	0.0200	0.3698	0.0161	0.2985
69	23.67	-0.04	-0.0437	0.0048	0.0043	-0.1098	-0.0993	1.2469	0.0211	0.3716	0.0170	0.2980
70	24.02	-0.09	-0.0717	0.0034	0.0018	-0.0401	-0.0252	1.2590	0.0194	0.3768	0.0154	0.2993
71	24.30	-0.08	-0.0498	0.0036	0.0064	-0.0723	-0.1286	1.2449	0.0212	0.3685	0.0171	0.2960
72	24.65	-0.05	-0.0723	0.0033	-0.0026	-0.0463	0.0358	1.2851	0.0183	0.3840	0.0143	0.2988
73	24.95	-0.09	-0.0353	0.0038	0.0138	-0.1076	-0.3920	1.2713	0.0191	0.3765	0.0151	0.2962
74	25.28	-0.07	-0.0971	0.0060	-0.0166	-0.0623	0.1705	1.2969	0.0174	0.3866	0.0135	0.2981
75	25.58	-0.08	-0.0780	0.0069	-0.0081	-0.0891	0.0781	1.2957	0.0185	0.3840	0.0143	0.2964
76	25.87	-0.07	-0.0481	0.0064	-0.0010	-0.1330	0.0214	1.2904	0.0194	0.3820	0.0150	0.2960
77	26.17	-0.07	-0.0326	0.0010	0.0124	-0.0307	-0.3815	1.2609	0.0174	0.3683	0.0138	0.2921
78	26.48	-0.08	-0.0169	-0.0015	0.0292	0.1154	-1.7260	1.2520	0.0158	0.3613	0.0126	0.2886
79	26.79	-0.07	-0.0751	-0.0000	-0.0007	0.0007	0.0096	1.2576	0.0164	0.3681	0.0131	0.2927
80	27.10	-0.07	-0.0097	-0.0061	0.0376	0.6288	-3.8730	1.2365	0.0141	0.3572	0.0114	0.2889
81	27.43	-0.05	-0.1000	0.0006	-0.0121	-0.0060	0.1212	1.2773	0.0155	0.3704	0.0121	0.2900
82	27.72	-0.08	-0.0504	-0.0058	0.0218	0.1151	-0.4327	1.2839	0.0146	0.3722	0.0114	0.2899
83	28.05	-0.07	-0.0405	-0.0020	-0.0054	0.0248	0.0674	1.2815	0.0138	0.3708	0.0108	0.2894
84	28.35	-0.07	0.0025	-0.0085	0.0394	-3.3994	15.7732	1.2761	0.0132	0.3696	0.0104	0.2897
85	28.66	-0.07	-0.0423	-0.0057	0.0234	0.1359	-0.5533	1.2739	0.0124	0.3668	0.0098	0.2879
86	28.97	-0.09	-0.0350	-0.0045	0.0137	0.1300	-0.3925	1.2880	0.0133	0.3740	0.0103	0.2904
87	29.29	-0.09	-0.0192	-0.0070	0.0272	0.3671	-1.4168	1.2807	0.0115	0.3674	0.0090	0.2869
88	29.60	-0.07	-0.0033	-0.0094	0.0408	2.8631	-12.3638	1.3503	0.0148	0.3912	0.0110	0.2897

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15	0.97	1.7	0.0	BZWF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CB3	XC PF3	YCPF3	CNF4	CM4	CB4	XC PF4	YCPF4
1	-2.74	-0.01	0.0024	0.0006	0.0005	0.2708	0.2082	-0.2029	0.0003	-0.0645	-0.0017	0.3179
2	-2.50	0.02	-0.0045	0.0005	-0.0022	-0.1222	0.4888	-0.1839	0.0005	-0.0601	-0.0027	0.3267
3	-1.95	-0.03	-0.0047	0.0007	-0.0010	-0.1595	0.2056	-0.1500	-0.0000	-0.0441	0.0003	0.2939
4	-1.36	-0.08	-0.0035	0.0009	0.0001	-0.2714	-0.0382	-0.1127	-0.0001	-0.0262	0.0009	0.2329
5	-0.78	0.04	0.0050	0.0010	0.0012	0.2000	0.2332	-0.0711	-0.0002	-0.0114	0.0035	0.1602
6	-0.26	0.04	0.0090	0.0008	0.0047	0.0944	0.5221	-0.0468	-0.0033	0.0007	0.0075	-0.0151
7	0.28	0.05	0.0009	0.0007	0.0009	0.7776	0.9999	-0.0062	-0.0001	0.0172	0.0161	-2.7797
8	0.77	0.02	0.0020	0.0009	0.0023	0.4749	1.1332	0.0256	0.0001	0.0310	0.0039	1.2121
9	1.29	0.03	0.0072	0.0015	0.0041	0.2152	0.5693	0.0465	-0.0006	0.0407	-0.0129	0.8751
10	1.77	-0.03	0.0007	0.0009	0.0009	1.3569	1.3332	0.0882	-0.0035	0.0580	-0.0062	0.6575
11	2.23	-0.04	0.0020	0.0010	0.0015	0.5249	0.7332	0.1142	-0.0003	0.0688	-0.0031	0.6029
12	2.72	0.01	0.0018	0.0009	0.0040	0.5277	2.2221	0.1556	-0.0005	0.0852	-0.0035	0.5479
13	3.19	0.01	0.0073	0.0012	0.0048	0.1712	0.8620	0.1883	-0.0006	0.0973	-0.0035	0.5170
14	3.68	0.0	0.0072	0.0012	0.0051	0.1736	0.7082	0.2213	-0.0033	0.1096	-0.0016	0.4954
15	4.13	0.0	0.0029	0.0011	0.0054	0.3565	1.8505	0.2638	-0.0032	0.1265	-0.0008	0.4795
16	4.59	0.05	0.0074	0.0011	0.0041	0.1488	0.5494	0.2978	-0.0032	0.1391	-0.0008	0.4672
17	5.03	-0.06	0.0042	0.0012	0.0062	0.2857	1.4761	0.3292	-0.0001	0.1525	-0.0005	0.4632
18	5.48	-0.08	0.0070	0.0012	0.0065	0.1785	0.9332	0.3570	-0.0005	0.1636	-0.0015	0.4581
19	5.92	-0.01	0.0099	0.0010	0.0070	0.1060	0.7070	0.3870	-0.0005	0.1744	-0.0014	0.4505
20	6.37	0.02	0.0031	0.0011	0.0038	0.3548	1.2364	0.4116	-0.0002	0.1839	-0.0005	0.4466
21	6.82	-0.06	0.0071	0.0011	0.0066	0.1549	0.9248	0.4450	-0.0004	0.1958	-0.0010	0.4399
22	7.25	-0.02	0.0046	0.0006	0.0056	0.1413	1.2245	0.4755	-0.0033	0.2070	-0.0007	0.4371
23	7.68	-0.04	0.0070	0.0010	0.0073	0.1500	1.0475	0.5042	-0.0009	0.2191	-0.0018	0.4345
24	8.11	0.0	0.0195	0.0010	0.0101	0.0538	0.5178	0.5325	-0.0011	0.2278	-0.0021	0.4278
25	8.56	-0.01	0.0096	0.0013	0.0080	0.1354	0.8332	0.5595	-0.0011	0.2380	-0.0020	0.4254
26	8.95	-0.03	0.0153	0.0009	0.0100	0.0621	0.6535	0.5818	-0.0011	0.2442	-0.0019	0.4197
27	9.34	-0.07	0.0135	0.0015	0.0100	0.1148	0.7406	0.6157	-0.0011	0.2565	-0.0018	0.4167
28	9.77	-0.05	0.0190	0.0014	0.0118	0.0763	0.6227	0.6314	-0.0009	0.2620	-0.0015	0.4149
29	10.15	-0.02	0.0166	0.0008	0.0111	0.0512	0.6706	0.6525	-0.0012	0.2668	-0.0018	0.4089
30	10.57	-0.04	0.0152	0.0010	0.0106	0.0691	0.6451	0.6854	-0.0004	0.2785	-0.0006	0.4063
31	10.94	-0.03	0.0110	0.0009	0.0103	0.0863	0.9332	0.6972	-0.0003	0.2812	-0.0004	0.4033
32	11.30	-0.04	0.0192	0.0011	0.0118	0.0599	0.6145	0.7227	-0.0003	0.2898	-0.0005	0.4010
33	11.66	-0.04	0.0152	0.0011	0.0095	0.0724	0.6490	0.7377	-0.0002	0.2932	-0.0003	0.3975
34	12.02	-0.09	0.0193	0.0012	0.0111	0.0648	0.5767	0.7698	-0.0003	0.3053	-0.0004	0.3966
35	12.40	-0.06	0.0149	0.0013	0.0114	0.0506	0.7627	0.7952	-0.0006	0.3112	-0.0008	0.3914
36	12.76	-0.04	0.0195	0.0008	0.0118	0.0436	0.6050	0.8214	-0.0006	0.3198	-0.0008	0.3893
37	13.12	-0.05	0.0334	0.0005	0.0164	0.0165	0.5069	0.8456	-0.0012	0.3277	-0.0014	0.3875
38	13.45	-0.06	0.0235	0.0009	0.0138	0.0404	0.5885	0.8584	-0.0013	0.3302	-0.0016	0.3847
39	13.82	-0.02	0.0237	0.0003	0.0153	0.0148	0.6455	0.8843	-0.0012	0.3370	-0.0014	0.3810
40	14.19	-0.05	0.0166	0.0009	0.0121	0.0542	0.7308	0.8963	-0.0012	0.3419	-0.0014	0.3814
41	14.51	-0.05	0.0333	0.0006	0.0177	0.0180	0.5314	0.9203	-0.0015	0.3495	-0.0016	0.3797
42	14.85	-0.06	0.0252	0.0001	0.0162	0.0140	0.6427	0.9410	-0.0012	0.3537	-0.0013	0.3758
43	15.19	-0.05	0.0224	0.0004	0.0145	0.0179	0.6457	0.9605	-0.0017	0.3589	-0.0018	0.3736
44	15.53	-0.05	0.0306	0.0005	0.0170	0.0163	0.5554	0.9782	-0.0012	0.3649	-0.0012	0.3731
45	15.85	-0.03	0.0247	0.0010	0.0152	0.0425	0.6166	1.0012	-0.0011	0.3697	-0.0011	0.3693
46	16.20	-0.06	0.0333	0.0	0.0202	0.0	0.6065	1.0023	-0.0013	0.3720	-0.0013	0.3711

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	PACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15	0.97	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.53	-0.06	0.0425	0.0008	0.0220	0.0188	0.5167	1.0237	-0.0007	0.3766	-0.0007	0.3679
48	16.85	-0.04	0.0426	0.0009	0.0208	0.0223	0.4881	1.0432	0.0008	0.3808	0.0008	0.3650
49	17.18	-0.07	0.0440	0.0007	0.0219	0.0170	0.4969	1.0494	0.0015	0.3825	0.0014	0.3645
50	17.50	-0.04	0.0370	0.0012	0.0189	0.0324	0.5116	1.0482	0.0017	0.3826	0.0016	0.3650
51	17.85	-0.05	0.0412	0.0009	0.0209	0.0231	0.5080	1.0768	0.0030	0.3888	0.0028	0.3611
52	18.18	-0.07	0.0273	0.0011	0.0164	0.0421	0.6006	1.0860	0.0036	0.3893	0.0033	0.3584
53	18.53	-0.03	0.0356	0.0008	0.0214	0.0225	0.6001	1.1063	0.0041	0.3965	0.0037	0.3584
54	18.85	-0.06	0.0389	0.0003	0.0203	0.0077	0.5209	1.1168	0.0036	0.3990	0.0032	0.3573
55	19.18	-0.06	0.0413	0.0006	0.0223	0.0145	0.5390	1.1317	0.0045	0.4029	0.0040	0.3560
56	19.49	-0.06	0.0326	0.0013	0.0203	0.0399	0.6216	1.1446	0.0043	0.4062	0.0038	0.3549
57	19.82	-0.05	0.0452	0.0010	0.0238	0.0232	0.5257	1.1545	0.0042	0.4098	0.0037	0.3550
58	20.16	-0.06	0.0383	0.0012	0.0211	0.0313	0.5499	1.1761	0.0043	0.4132	0.0037	0.3513
59	20.47	-0.06	0.0339	0.0012	0.0216	0.0369	0.6370	1.1825	0.0051	0.4155	0.0044	0.3514
60	20.83	-0.06	0.0409	0.0015	0.0220	0.0367	0.5386	1.2034	0.0059	0.4189	0.0049	0.3481
61	21.14	-0.03	0.0494	0.0008	0.0261	0.0172	0.5275	1.1812	0.0128	0.4086	0.0108	0.3459
62	21.47	-0.07	0.0378	0.0015	0.0236	0.0410	0.6242	1.1887	0.0143	0.4094	0.0120	0.3444
63	21.78	-0.07	0.0451	0.0010	0.0248	0.0233	0.5505	1.1866	0.0172	0.4048	0.0145	0.3411
64	22.09	-0.07	0.0439	0.0010	0.0244	0.0228	0.5564	1.1914	0.0183	0.4043	0.0154	0.3393
65	22.41	-0.07	0.0558	0.0015	0.0300	0.0278	0.5375	1.1842	0.0195	0.4011	0.0165	0.3387
66	22.72	-0.05	0.0423	0.0010	0.0249	0.0248	0.5885	1.1716	0.0208	0.3922	0.0177	0.3347
67	23.05	-0.06	0.0421	0.0018	0.0235	0.0427	0.5589	1.1952	0.0208	0.3963	0.0174	0.3315
68	23.35	-0.05	0.0462	0.0016	0.0263	0.0357	0.5691	1.1876	0.0213	0.3939	0.0179	0.3317
69	23.67	-0.04	0.0571	0.0017	0.0314	0.0298	0.5504	1.2015	0.0209	0.3997	0.0174	0.3326
70	24.02	-0.09	0.0507	0.0011	0.0273	0.0227	0.5383	1.1776	0.0200	0.3876	0.0170	0.3291
71	24.30	-0.08	0.0502	0.0010	0.0306	0.0209	0.6101	1.1902	0.0200	0.3862	0.0168	0.3245
72	24.65	-0.05	0.0556	0.0017	0.0300	0.0306	0.5400	1.1948	0.0177	0.3872	0.0148	0.3241
73	24.95	-0.09	0.0512	0.0015	0.0294	0.0303	0.5734	1.2077	0.0169	0.3943	0.0140	0.3265
74	25.28	-0.07	0.0552	0.0014	0.0313	0.0254	0.5669	1.1882	0.0152	0.3891	0.0128	0.3275
75	25.58	-0.08	0.0510	0.0016	0.0303	0.0314	0.5940	1.2117	0.0148	0.3927	0.0122	0.3241
76	25.87	-0.07	0.0478	0.0022	0.0286	0.0471	0.5989	1.1819	0.0145	0.3875	0.0123	0.3279
77	26.17	-0.07	0.0437	0.0020	0.0287	0.0458	0.6559	1.1641	0.0139	0.3839	0.0119	0.3298
78	26.48	-0.08	0.0559	0.0017	0.0361	0.0304	0.6463	1.1266	0.0139	0.3632	0.0124	0.3224
79	26.79	-0.07	0.0494	0.0020	0.0307	0.0405	0.6207	1.1104	0.0141	0.3603	0.0127	0.3245
80	27.10	-0.07	0.0453	0.0020	0.0294	0.0441	0.6489	1.1290	0.0137	0.3625	0.0122	0.3211
81	27.43	-0.05	0.0289	0.0013	0.0270	0.0467	0.9353	1.1243	0.0138	0.3595	0.0123	0.3198
82	27.72	-0.08	0.0360	0.0015	0.0265	0.0430	0.7360	1.1224	0.0138	0.3599	0.0123	0.3207
83	28.05	-0.07	0.0467	0.0018	0.0317	0.0385	0.6780	1.1374	0.0132	0.3637	0.0116	0.3198
84	28.35	-0.07	0.0481	0.0018	0.0313	0.0385	0.6513	1.1293	0.0123	0.3568	0.0109	0.3159
85	28.66	-0.07	0.0453	0.0018	0.0312	0.0397	0.6886	1.1535	0.0125	0.3711	0.0108	0.3217
86	28.97	-0.09	0.0491	0.0024	0.0322	0.0489	0.6550	1.1291	0.0122	0.3607	0.0108	0.3195
87	29.29	-0.09	0.0467	0.0019	0.0315	0.0407	0.6737	1.1325	0.0118	0.3617	0.0105	0.3194
88	29.60	-0.07	0.0455	0.0015	0.0312	0.0441	0.6849	1.1482	0.0112	0.3684	0.0098	0.3208

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION
6	16	1.01	1.7	0.0	B2M0F12	0.0	0	0	0	FIXED
PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.09	-0.04	-0.4549	1.1858	0.1039	-0.0015	0.0110	0.3634	-2.6066	
2	-2.38	0.03	-0.4148	1.1507	-0.0289	0.1234	0.0150	0.3555	-2.7738	
3	-1.66	0.05	-0.1388	0.8572	-0.0318	0.0105	0.0150	0.3639	-2.5305	
4	-1.25	0.05	-0.2426	0.6806	0.0243	0.0770	0.0220	0.3600	-2.8056	
5	-0.68	0.05	-0.1353	0.4264	0.0659	-0.0403	0.0150	0.3627	-3.1517	
6	-0.13	0.02	-0.0370	0.1518	0.0436	-0.1373	0.0170	0.3654	-4.1027	
7	0.37	0.03	0.0469	-0.0307	0.0381	-0.0553	0.0180	0.3614	-0.6537	
8	0.87	0.04	0.0958	-0.1411	-0.0535	0.0899	0.0170	0.3572	-1.4731	
9	1.37	0.03	0.2340	-0.4435	0.0271	0.0071	0.0220	0.3620	-1.8957	
10	1.86	0.03	0.3151	-0.6531	0.0400	0.0160	0.0200	0.3575	-2.0728	
11	2.35	0.03	0.3749	-0.8897	-0.0622	0.0471	0.0160	0.3638	-2.3736	
12	2.81	-0.02	0.4572	-1.0751	0.0378	0.0151	0.0170	0.3653	-2.3514	
13	3.28	0.02	0.5208	-1.2421	0.0728	-0.2974	0.0240	0.3649	-2.3848	
14	3.76	0.08	0.6525	-1.5064	0.0521	-0.0569	0.0170	0.3597	-2.3087	
15	4.20	0.02	0.7355	-1.7326	0.0770	-0.0348	0.0140	0.3664	-2.3557	
16	4.65	0.08	0.7786	-1.9209	0.2613	-0.0338	0.0180	0.3549	-2.4672	
17	5.11	0.05	0.8695	-2.0952	-0.0182	-0.0415	0.0230	0.3621	-2.4097	
18	5.56	0.10	0.9574	-2.3362	0.1663	0.0222	0.0200	0.3659	-2.4402	
19	6.00	0.05	1.0588	-2.4911	0.1013	0.1012	0.0160	0.3657	-2.3529	
20	6.43	0.06	1.0645	-2.5641	0.1130	0.0468	0.0140	0.3617	-2.4088	
21	6.90	-0.04	1.1517	-2.7863	-0.0351	0.0531	0.0200	0.3648	-2.4192	
22	7.33	0.02	1.2395	-3.0182	0.0505	0.0433	0.0150	0.3774	-2.4349	
23	7.78	0.01	1.3618	-3.2954	0.0237	-0.0022	0.0130	0.3779	-2.4198	
24	8.21	-0.07	1.4176	-3.4115	0.0118	0.0205	0.0170	0.3786	-2.4065	
25	8.64	-0.03	1.5128	-3.5987	0.1415	-0.1556	0.0170	0.3772	-2.3788	
26	9.09	0.06	1.5633	-3.7004	0.1048	-0.0527	0.0220	0.3575	-2.3671	
27	9.45	0.04	1.6529	-3.8868	-0.0726	0.2056	0.0170	0.3615	-2.3515	
28	9.86	-0.02	1.7361	-4.0363	0.1435	0.0681	0.0150	0.3487	-2.3250	
29	10.27	0.10	1.8583	-4.2733	0.2627	0.0242	0.0140	0.3554	-2.2996	
30	10.65	-0.02	1.8219	-4.3164	-0.0698	0.2117	0.0160	0.3528	-2.3692	
31	11.03	0.0	1.9500	-4.5258	-0.0534	0.0937	0.0130	0.3627	-2.3209	
32	11.42	0.07	2.0385	-4.6517	0.0264	0.2670	0.0140	0.3528	-2.2819	
33	11.76	0.02	2.0844	-4.7260	-0.1109	0.2602	0.0090	0.3517	-2.2673	
34	12.14	0.0	2.1890	-4.9744	-0.0623	0.1862	0.0140	0.3629	-2.2724	
35	12.51	-0.02	2.2612	-5.0774	-0.0415	0.2231	0.0110	0.3549	-2.2455	
36	12.87	-0.02	2.3408	-5.2309	0.0563	0.1022	0.0070	0.3603	-2.2346	
37	13.20	-0.09	2.4478	-5.3946	-0.0605	0.0157	0.0080	0.3542	-2.2039	
38	13.59	-0.02	2.4910	-5.4461	0.0282	0.3405	0.0130	0.3478	-2.1863	
39	13.96	-0.01	2.5792	-5.5636	-0.0972	0.2340	0.0070	0.3439	-2.1571	
40	14.31	0.0	2.5936	-5.6687	-0.0856	0.2008	0.0080	0.3371	-2.1857	
41	14.63	-0.02	2.7116	-5.7910	-0.1534	0.0518	0.0040	0.3348	-2.1356	
42	14.99	-0.02	2.7997	-5.8814	0.0007	0.1410	0.0	0.3416	-2.1007	
43	15.36	-0.05	2.8514	-5.9237	0.0142	0.4171	-0.0040	0.3301	-2.0775	
44	15.69	-0.06	2.8971	-6.1107	-0.1606	0.3448	0.0020	0.3285	-2.1092	
45	16.04	0.01	3.0126	-6.2094	-0.0464	0.2739	-0.0050	0.3280	-2.0611	
46	16.36	-0.02	3.0794	-6.2769	-0.0802	0.3192	-0.0130	0.3236	-2.0384	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	16	1.01	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.70	0.01	3.1878	-6.3936	-0.0608	0.3511	-0.0140	0.3241	-2.0057		
48	17.01	0.01	3.2521	-6.4437	0.0029	0.2819	-0.0060	0.3213	-1.9814		
49	17.35	0.0	3.3206	-6.4985	0.0196	0.3445	-0.0180	0.3216	-1.9571		
50	17.67	-0.04	3.4066	-6.5259	-0.0841	0.4697	-0.0090	0.3308	-1.9451		
51	18.02	-0.04	3.5062	-6.7025	-0.0409	0.1712	-0.0190	0.3228	-1.9116		
52	18.33	-0.02	3.5277	-6.7976	-0.1475	0.3834	-0.0190	0.3187	-1.9269		
53	18.70	-0.03	3.6315	-6.7569	0.0380	0.3118	-0.0190	0.3147	-1.8606		
54	19.00	-0.04	3.6918	-6.9073	-0.0198	0.2357	-0.0220	0.3184	-1.8710		
55	19.35	-0.02	3.8257	-6.9988	0.0858	0.2888	-0.0220	0.3128	-1.8294		
56	19.67	-0.07	3.8512	-7.0815	-0.1543	0.4970	-0.0190	0.3075	-1.8388		
57	20.03	-0.06	4.0028	-7.1667	-0.0990	0.4925	-0.0310	0.2990	-1.7904		
58	20.35	-0.03	4.0666	-7.1990	-0.0397	0.2136	-0.0310	0.2910	-1.7703		
59	20.71	-0.02	4.1500	-7.2887	0.0347	0.3954	-0.0330	0.2951	-1.7563		
60	21.05	-0.02	4.2978	-7.2748	0.0025	0.3874	-0.0380	0.2842	-1.6936		
61	21.36	-0.09	4.3660	-7.3813	0.0321	-0.0399	-0.0220	0.2706	-1.6906		
62	21.69	-0.06	4.4835	-7.3908	0.1638	0.1377	-0.0230	0.2743	-1.6484		
63	21.97	-0.07	4.5504	-7.4374	-0.0536	0.0900	-0.0200	0.2692	-1.6345		
64	22.30	-0.06	4.6803	-7.4783	-0.0784	0.2147	-0.0260	0.2594	-1.5978		
65	22.67	-0.05	4.7643	-7.4949	0.1029	0.1629	-0.0170	0.2665	-1.5731		
66	22.99	-0.10	4.8438	-7.4792	-0.0485	-0.0471	-0.0080	0.2740	-1.5441		
67	23.27	-0.05	4.9272	-7.5229	-0.0847	0.5505	-0.0470	0.2640	-1.5268		
68	23.61	-0.03	5.0060	-7.5924	0.1542	0.1331	-0.0220	0.2452	-1.5166		
69	23.94	-0.04	5.1608	-7.7031	-0.0322	0.7460	-0.0510	0.2328	-1.4926		
70	24.28	-0.08	5.2420	-7.6658	-0.0667	0.0864	-0.0140	0.2343	-1.4624		
71	24.60	-0.07	5.3658	-7.6591	0.0735	0.1381	-0.0210	0.2279	-1.4274		
72	24.91	-0.07	5.4033	-7.6746	0.0022	0.2409	-0.0170	0.2312	-1.4204		
73	25.24	-0.10	5.5700	-7.7570	0.0418	-0.3825	0.0330	0.2259	-1.3926		
74	25.50	-0.07	5.6177	-7.7637	0.0754	-0.1295	-0.0030	0.2231	-1.3020		
75	25.83	-0.06	5.7768	-7.7356	-0.0647	0.4505	-0.0360	0.2133	-1.3391		
76	26.14	-0.04	5.7502	-7.6854	0.1695	0.0571	-0.0110	0.2200	-1.3305		
77	26.41	-0.05	5.9499	-7.6960	-0.0772	0.5350	-0.0460	0.2176	-1.2935		
78	26.70	-0.06	6.0447	-7.7947	0.0352	0.1467	-0.0050	0.2124	-1.2895		
79	27.07	-0.05	6.1903	-7.7795	-0.0606	0.5208	-0.0160	0.1953	-1.2507		
80	27.38	-0.05	6.2238	-7.8664	0.0716	0.2147	-0.0150	0.1845	-1.2639		
81	27.67	-0.05	6.2820	-7.9669	0.0343	0.2260	-0.0080	0.1648	-1.2682		
82	27.99	-0.06	6.4724	-8.0024	-0.0487	0.5391	-0.0240	0.1502	-1.2364		
83	28.28	-0.08	6.5350	-7.9822	0.0287	-0.0802	0.0320	0.1473	-1.2214		
84	28.58	-0.02	6.5552	-8.0655	0.1177	0.5531	-0.0190	0.1458	-1.2304		
85	28.94	-0.14	6.9074	-7.9656	-0.3197	-0.1664	0.0250	0.1135	-1.1532		
86	29.18	-0.02	6.6843	-8.0302	0.1169	0.4443	0.0030	0.1237	-1.2014		
87	29.50	-0.04	6.7708	-8.0633	0.2480	0.0098	0.0050	0.1148	-1.1909		
88	29.84	0.02	7.0838	-8.0815	0.5460	-0.0195	0.0	0.1037	-1.1408		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	16	1.01	1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YC PF1	CNF2	CH2	CB2	XC PF2	YC PF2
1	-2.69	-0.04	-0.0172	0.0006	0.0028	-0.0349	-0.1610	-0.1512	0.0025	-0.0709	-0.0165	0.4688
2	-2.38	0.03	-0.0207	0.0004	0.0005	-0.0217	-0.0243	-0.1481	0.0030	-0.0689	-0.0206	0.4656
3	-1.86	0.05	-0.0162	0.0004	0.0018	-0.0247	-0.1112	-0.1079	0.0018	-0.0523	-0.0167	0.4852
4	-1.25	0.05	-0.0118	0.0003	0.0044	-0.0297	-0.3702	-0.0891	0.0017	-0.0443	-0.0191	0.4971
5	-0.68	0.05	-0.0136	0.0006	0.0025	-0.0441	-0.1815	-0.0405	0.0003	-0.0229	-0.0074	0.5653
6	-0.13	0.02	-0.0133	0.0001	0.0038	-0.0113	-0.2833	-0.0054	-0.0003	-0.0075	0.0648	1.3888
7	0.37	0.03	-0.0112	0.0001	0.0056	-0.0089	-0.4971	0.0196	-0.0007	0.0052	-0.0357	0.2669
8	0.87	0.04	-0.0177	0.0003	0.0030	-0.0169	-0.1696	0.0446	-0.0013	0.0132	-0.0303	0.2951
9	1.37	0.03	-0.0089	0.0002	0.0065	-0.0225	-0.7791	0.0830	-0.0020	0.0322	-0.0247	0.3674
10	1.86	0.03	-0.0186	-0.0001	0.0044	0.0081	-0.2367	0.1098	-0.0028	0.0433	-0.0255	0.3942
11	2.35	0.03	-0.0142	0.0000	0.0088	-0.0035	-0.6175	0.1477	-0.0033	0.0597	-0.0223	0.4043
12	2.81	-0.02	-0.0134	-0.0003	0.0073	0.0224	-0.5474	0.1654	-0.0036	0.0678	-0.0206	0.4100
13	3.28	0.02	0.0009	-0.0006	0.0112	-0.7221	12.4443	0.1947	-0.0038	0.0789	-0.0198	0.4051
14	3.76	0.08	-0.0166	-0.0001	0.0076	0.0000	-0.4559	0.2375	-0.0038	0.0947	-0.0162	0.3989
15	4.20	0.02	-0.0242	0.0000	0.0046	-0.0021	-0.1916	0.2636	-0.0043	0.1048	-0.0165	0.3977
16	4.65	0.08	-0.0108	-0.0013	0.0116	0.1263	-1.0742	0.2883	-0.0043	0.1143	-0.0151	0.3963
17	5.11	0.05	-0.0227	-0.0004	0.0049	0.0198	-0.2174	0.3100	-0.0040	0.1211	-0.0131	0.3906
18	5.56	0.10	-0.0185	-0.0013	0.0074	0.0703	-0.4019	0.3422	-0.0038	0.1356	-0.0112	0.3963
19	6.00	0.05	-0.0198	-0.0009	0.0047	0.0454	-0.2375	0.3637	-0.0040	0.1440	-0.0111	0.3959
20	6.43	0.06	-0.0197	-0.0004	-0.0006	0.0228	0.0286	0.3818	-0.0039	0.1505	-0.0102	0.3942
21	6.90	-0.04	-0.0222	-0.0011	0.0014	0.0495	-0.0857	0.4157	-0.0041	0.1639	-0.0099	0.3943
22	7.33	0.02	-0.0206	-0.0003	-0.0005	0.0146	0.0225	0.4435	-0.0041	0.1716	-0.0094	0.3869
23	7.78	0.01	-0.0164	-0.0023	0.0059	0.1433	-0.3619	0.4753	-0.0049	0.1842	-0.0103	0.3875
24	8.21	-0.07	-0.0201	-0.0019	0.0026	0.0970	-0.1295	0.4903	-0.0042	0.1878	-0.0087	0.3830
25	8.64	-0.03	-0.0215	-0.0028	0.0029	0.1325	-0.1366	0.5143	-0.0050	0.1968	-0.0097	0.3826
26	9.04	0.06	-0.0206	-0.0037	0.0040	0.1796	-0.1759	0.5280	-0.0043	0.2007	-0.0082	0.3802
27	9.45	0.04	-0.0305	-0.0026	0.0008	0.0869	-0.0274	0.5352	-0.0047	0.2148	-0.0084	0.3801
28	9.86	-0.02	-0.0326	-0.0031	0.0020	0.0566	-0.0625	0.5759	-0.0049	0.2163	-0.0085	0.3756
29	10.27	0.10	-0.0348	-0.0043	0.0039	0.1250	-0.1122	0.6052	-0.0050	0.2233	-0.0083	0.3689
30	10.65	-0.02	-0.0375	-0.0039	0.0019	0.1053	-0.0508	0.6108	-0.0050	0.2258	-0.0083	0.3697
31	11.03	0.0	-0.0385	-0.0040	-0.0006	0.1052	0.0163	0.6374	-0.0048	0.2336	-0.0076	0.3665
32	11.42	0.07	-0.0426	-0.0044	-0.0007	0.1044	0.0163	0.6605	-0.0050	0.2411	-0.0076	0.3650
33	11.76	0.02	-0.0508	-0.0045	-0.0034	0.0896	0.0675	0.6722	-0.0057	0.2446	-0.0085	0.3639
34	12.14	0.0	-0.0515	-0.0050	-0.0035	0.0971	0.0672	0.6992	-0.0052	0.2502	-0.0074	0.3578
35	12.51	-0.02	-0.0560	-0.0048	-0.0040	0.0866	0.0707	0.7263	-0.0050	0.2559	-0.0070	0.3524
36	12.87	-0.02	-0.0627	-0.0056	-0.0072	0.0843	0.1147	0.7397	-0.0045	0.2621	-0.0061	0.3543
37	13.20	-0.09	-0.0558	-0.0050	-0.0071	0.0896	0.1271	0.7669	-0.0050	0.2677	-0.0066	0.3491
38	13.59	-0.02	-0.0644	-0.0065	-0.0061	0.1017	0.0941	0.7731	-0.0048	0.2671	-0.0062	0.3455
39	13.96	-0.01	-0.0668	-0.0054	-0.0109	0.0616	0.1626	0.7999	-0.0053	0.2753	-0.0067	0.3442
40	14.33	0.0	-0.0698	-0.0070	-0.0080	0.1010	0.1140	0.8065	-0.0057	0.2778	-0.0071	0.3445
41	14.63	-0.02	-0.0655	-0.0050	-0.0064	0.0763	0.0981	0.8254	-0.0060	0.2815	-0.0073	0.3410
42	14.99	-0.02	-0.0826	-0.0065	-0.0136	0.0793	0.1649	0.8408	-0.0046	0.2856	-0.0055	0.3396
43	15.36	-0.03	-0.0960	-0.0084	-0.0152	0.0875	0.1582	0.8481	-0.0052	0.2856	-0.0061	0.3368
44	15.69	-0.06	-0.0912	-0.0082	-0.0135	0.0904	0.1479	0.8702	-0.0055	0.2925	-0.0063	0.3361
45	16.04	0.01	-0.0855	-0.0048	-0.0168	0.0567	0.1964	0.8857	-0.0055	0.2986	-0.0062	0.3372
46	16.34	-0.02	-0.0884	-0.0033	-0.0219	0.0373	0.2472	0.8999	-0.0059	0.3023	-0.0066	0.3359

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	16	1.01	1.7	0.0	0.82	WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.70	0.01	-0.0963	-0.0042	-0.0268	0.0441	0.2782	0.9070	-0.0057	0.3034	-0.0063	0.3345
48	17.01	0.01	-0.0868	-0.0037	-0.0205	0.0426	0.2410	0.9248	-0.0062	0.3092	-0.0067	0.3343
49	17.35	0.0	-0.0912	-0.0025	-0.0277	0.0280	0.3036	0.9404	-0.0060	0.3111	-0.0064	0.3308
50	17.67	-0.04	-0.0971	-0.0047	-0.0265	0.0484	0.2766	0.9521	-0.0061	0.3147	-0.0064	0.3305
51	18.02	-0.04	-0.0963	-0.0022	-0.0304	0.0234	0.3156	0.9701	-0.0063	0.3172	-0.0065	0.3265
52	18.34	-0.02	-0.0972	-0.0025	-0.0272	0.0262	0.2797	0.9746	-0.0070	0.3200	-0.0072	0.3283
53	18.70	-0.03	-0.1091	-0.0040	-0.0267	0.0367	0.2452	0.9829	-0.0072	0.3220	-0.0074	0.3276
54	19.00	-0.04	-0.0875	-0.0004	-0.0309	0.0051	0.3526	1.0017	-0.0071	0.3272	-0.0071	0.3266
55	19.35	-0.02	-0.1054	-0.0023	-0.0343	0.0218	0.3256	1.0183	-0.0070	0.3307	-0.0069	0.3248
56	19.67	-0.07	-0.1149	-0.0017	-0.0376	0.0152	0.3271	1.0173	-0.0077	0.3300	-0.0076	0.3244
57	20.03	-0.06	-0.1037	0.0026	-0.0384	-0.0263	0.3819	1.0385	-0.0086	0.3360	-0.0083	0.3236
58	20.35	-0.03	-0.0908	0.0056	-0.0412	-0.0622	0.4544	1.0464	-0.0092	0.3391	-0.0088	0.3240
59	20.71	-0.02	-0.0991	0.0042	-0.0413	-0.0424	0.4170	1.0587	-0.0088	0.3417	-0.0083	0.3227
60	21.05	-0.02	-0.1180	0.0064	-0.0518	-0.0547	0.4391	1.0637	-0.0095	0.3422	-0.0089	0.3217
61	21.36	-0.09	-0.0641	0.0074	-0.0336	-0.1154	0.5235	1.0709	-0.0101	0.3477	-0.0094	0.3223
62	21.69	-0.06	-0.0717	0.0069	-0.0367	-0.0962	0.5117	1.0925	-0.0102	0.3493	-0.0093	0.3198
63	21.97	-0.07	-0.0653	0.0067	-0.0321	-0.1034	0.4909	1.0959	-0.0108	0.3514	-0.0099	0.3206
64	22.30	-0.06	-0.0690	0.0059	-0.0315	-0.0862	0.4564	1.1092	-0.0108	0.3529	-0.0097	0.3182
65	22.67	-0.05	-0.0384	0.0051	-0.0197	-0.1341	0.5129	1.1160	-0.0116	0.3574	-0.0104	0.3202
66	22.99	-0.10	-0.0619	0.0047	-0.0274	-0.0767	0.4431	1.1221	-0.0104	0.3567	-0.0093	0.3179
67	23.27	-0.05	-0.1309	0.0082	-0.0596	-0.0626	0.4554	1.1158	-0.0109	0.3561	-0.0098	0.3191
68	23.61	-0.03	-0.0795	0.0051	-0.0347	-0.0641	0.4364	1.1338	-0.0111	0.3592	-0.0098	0.3168
69	23.94	-0.04	-0.0819	0.0022	-0.0237	-0.0275	0.2893	1.1540	-0.0109	0.3635	-0.0094	0.3150
70	24.28	-0.08	-0.0373	0.0022	-0.0085	-0.0603	0.2287	1.1589	-0.0120	0.3653	-0.0104	0.3152
71	24.60	-0.07	-0.0918	0.0064	-0.0438	-0.0702	0.4770	1.1627	-0.0116	0.3643	-0.0100	0.3134
72	24.91	-0.07	-0.0744	0.0042	-0.0309	-0.0564	0.4152	1.1698	-0.0111	0.3657	-0.0095	0.3126
73	25.24	-0.10	0.0235	-0.0009	0.0237	-0.0404	1.0098	1.1915	-0.0140	0.3736	-0.0117	0.3136
74	25.50	-0.07	-0.0356	0.0015	-0.0122	-0.0421	0.3416	1.1915	-0.0123	0.3718	-0.0103	0.3121
75	25.83	-0.06	-0.0727	0.0002	-0.0085	-0.0034	0.1173	1.1998	-0.0127	0.3742	-0.0106	0.3119
76	26.14	-0.04	-0.0657	0.0022	-0.0205	-0.0335	0.3119	1.2034	-0.0130	0.3755	-0.0108	0.3120
77	26.41	-0.05	-0.0847	0.0020	-0.0236	-0.0242	0.2789	1.2082	-0.0135	0.3768	-0.0112	0.3119
78	26.70	-0.06	-0.0814	-0.0001	-0.0204	0.0018	0.2509	1.2141	-0.0136	0.3783	-0.0112	0.3116
79	27.07	-0.05	-0.1201	0.0014	-0.0427	-0.0121	0.3557	1.2307	-0.0129	0.3821	-0.0105	0.3105
80	27.38	-0.05	-0.1004	0.0017	-0.0361	-0.0169	0.3601	1.2355	-0.0133	0.3830	-0.0108	0.3100
81	27.67	-0.05	-0.0237	-0.0011	0.0121	0.0464	-0.5107	1.2536	-0.0110	0.3876	-0.0088	0.3092
82	27.99	-0.06	-0.0838	-0.0018	-0.0143	0.0221	0.1709	1.2573	-0.0106	0.3882	-0.0085	0.3088
83	28.28	-0.08	-0.0581	-0.0037	-0.0051	0.0645	0.0871	1.2581	-0.0104	0.3884	-0.0083	0.3087
84	28.58	-0.02	-0.0950	-0.0016	-0.0194	0.0168	0.2037	1.2685	-0.0096	0.3915	-0.0076	0.3086
85	28.94	-0.14	-0.0544	-0.0024	-0.0006	0.0450	0.0115	1.2793	-0.0103	0.3938	-0.0081	0.3078
86	29.18	-0.02	-0.0367	-0.0036	0.0071	0.0981	-0.1927	1.2884	-0.0098	0.3940	-0.0076	0.3084
87	29.50	-0.04	-0.0354	-0.0018	0.0083	0.0523	-0.2346	1.2962	-0.0105	0.3966	-0.0081	0.3060
88	29.84	0.02	-0.0274	-0.0015	0.0141	0.0566	-0.5135	1.3168	-0.0107	0.4029	-0.0081	0.3060

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION		
6	16	1.01	1.7	0.0	BZMOF12	0.0	0	0	0	FIXED		
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.69	-0.04	-0.0098	0.0014	0.0011	-0.1479	-0.1158	-0.2141	0.0034	-0.0591	-0.0161	0.2762
2	-2.38	0.03	-0.0171	0.0015	-0.0015	-0.0877	0.0876	-0.1993	0.0033	-0.0541	-0.0168	0.2715
3	-1.86	0.05	-0.0110	0.0014	0.0010	-0.1273	-0.0941	-0.1615	0.0026	-0.0409	-0.0164	0.2533
4	-1.25	0.05	-0.0086	0.0014	0.0024	-0.1628	-0.2831	-0.1305	0.0015	-0.0269	-0.0119	0.2060
5	-0.68	0.05	-0.0148	0.0015	0.0012	-0.1047	-0.0789	-0.0942	0.0007	-0.0091	-0.0080	0.0965
6	-0.13	0.02	-0.0111	0.0015	0.0015	-0.1351	-0.1353	-0.0500	0.0003	0.0065	-0.0060	-0.1308
7	0.37	0.03	-0.0073	0.0012	0.0030	-0.1712	-0.4065	-0.0229	0.0001	0.0176	-0.0044	-0.7672
8	0.87	0.04	-0.0235	0.0017	-0.0014	-0.0745	0.0609	-0.0070	-0.0002	0.0247	0.0357	-3.5239
9	1.37	0.03	-0.0162	0.0016	0.0016	-0.1018	-0.0989	0.0419	-0.0011	0.0451	-0.0262	1.0755
10	1.86	0.03	-0.0161	0.0016	0.0007	-0.1025	-0.0457	0.0753	-0.0013	0.0574	-0.0173	0.7622
11	2.35	0.03	-0.0039	0.0016	0.0032	-0.4230	-0.8206	0.1072	-0.0017	0.0706	-0.0163	0.6588
12	2.81	-0.02	-0.0028	0.0013	0.0061	-0.4821	-2.1668	0.1380	-0.0021	0.0838	-0.0152	0.6071
13	3.28	0.02	0.0018	0.0018	0.0069	0.4998	3.8332	0.1684	-0.0027	0.0950	-0.0163	0.5642
14	3.76	0.08	0.0019	0.0017	0.0068	0.8546	3.5964	0.2057	-0.0027	0.1107	-0.0134	0.5384
15	4.20	0.02	-0.0026	0.0012	0.0048	-0.4807	-1.8591	0.2316	-0.0030	0.1226	-0.0132	0.5292
16	4.65	0.08	0.0055	0.0016	0.0085	0.2909	1.5514	0.2604	-0.0029	0.1329	-0.0111	0.5106
17	5.11	0.05	-0.0087	0.0015	0.0025	-0.1724	-0.2875	0.2776	-0.0030	0.1406	-0.0110	0.5064
18	5.56	0.10	-0.0012	0.0011	0.0026	0.9185	4.6685	0.3152	-0.0028	0.1553	-0.0089	0.4927
19	6.00	0.05	0.0116	0.0017	0.0090	0.1465	0.7729	0.3472	-0.0030	0.1664	-0.0088	0.4792
20	6.43	0.06	-0.0086	0.0013	0.0024	-0.1569	-0.2831	0.3609	-0.0031	0.1697	-0.0087	0.4701
21	6.90	-0.04	-0.0017	0.0019	0.0044	-1.1174	-2.6080	0.4010	-0.0028	0.1843	-0.0071	0.4596
22	7.33	0.02	0.0011	0.0012	0.0057	1.0907	5.1514	0.4179	-0.0033	0.1914	-0.0079	0.4581
23	7.78	0.01	0.0090	0.0018	0.0091	0.2000	1.0110	0.4540	-0.0033	0.2044	-0.0073	0.4501
24	8.21	-0.07	0.0090	0.0013	0.0112	0.1500	1.2443	0.4796	-0.0038	0.2130	-0.0079	0.4441
25	8.64	-0.03	0.0139	0.0015	0.0110	0.1115	0.7936	0.5009	-0.0036	0.2205	-0.0072	0.4402
26	9.04	0.06	0.0065	0.0019	0.0085	0.2923	1.3024	0.5179	-0.0040	0.2266	-0.0077	0.4375
27	9.45	0.04	0.0036	0.0012	0.0054	0.3472	1.4999	0.5546	-0.0040	0.2379	-0.0073	0.4289
28	9.86	-0.02	0.0211	0.0015	0.0133	0.0734	0.6318	0.5704	-0.0043	0.2446	-0.0076	0.4287
29	10.27	0.10	0.0244	0.0021	0.0144	0.0881	0.5914	0.6049	-0.0047	0.2553	-0.0078	0.4221
30	10.65	-0.02	0.0126	0.0018	0.0102	0.1428	0.8094	0.6070	-0.0050	0.2558	-0.0083	0.4215
31	11.03	0.0	0.0090	0.0014	0.0112	0.1611	1.2443	0.6342	-0.0052	0.2641	-0.0083	0.4165
32	11.42	0.07	-0.0051	0.0013	0.0046	-0.2647	-0.9021	0.6514	-0.0055	0.2697	-0.0084	0.4141
33	11.76	0.02	0.0176	0.0012	0.0125	0.0710	0.7309	0.6747	-0.0058	0.2765	-0.0086	0.4098
34	12.14	0.0	0.0091	0.0015	0.0103	0.1648	1.1354	0.6943	-0.0060	0.2842	-0.0086	0.4094
35	12.51	-0.02	0.0128	0.0013	0.0106	0.1054	0.8410	0.7252	-0.0063	0.2907	-0.0088	0.4009
36	12.87	-0.02	0.0161	0.0016	0.0134	0.1625	0.8301	0.7452	-0.0061	0.2970	-0.0083	0.3986
37	13.20	-0.09	0.0123	0.0017	0.0130	0.1423	1.0568	0.7611	-0.0063	0.3028	-0.0083	0.3978
38	13.59	-0.02	0.0066	0.0014	0.0106	0.2121	1.6059	0.7767	-0.0069	0.3072	-0.0089	0.3955
39	13.96	-0.01	0.0163	0.0015	0.0125	0.0920	0.7688	0.8003	-0.0070	0.3116	-0.0088	0.3894
40	14.31	0.0	0.0199	0.0013	0.0143	0.0678	0.7201	0.8133	-0.0072	0.3170	-0.0089	0.3898
41	14.63	-0.02	0.0166	0.0009	0.0131	0.0542	0.7910	0.8255	-0.0074	0.3204	-0.0090	0.3881
42	14.99	-0.02	0.0246	0.0014	0.0164	0.0569	0.6665	0.8516	-0.0067	0.3268	-0.0079	0.3837
43	15.36	-0.05	0.0295	0.0013	0.0175	0.0458	0.6078	0.8630	-0.0074	0.3304	-0.0086	0.3828
44	15.69	-0.06	0.0198	0.0013	0.0152	0.0682	0.7676	0.8844	-0.0073	0.3356	-0.0083	0.3795
45	16.04	0.01	0.0136	0.0013	0.0154	0.0992	1.1347	0.8899	-0.0074	0.3380	-0.0083	0.3798
46	16.34	-0.02	0.0292	0.0018	0.0182	0.0616	0.6243	0.9075	-0.0073	0.3405	-0.0081	0.3752

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 16 1.01 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.70	0.01	0.0279	0.0016	0.0199	0.0573	0.7131	0.9210	-0.0075	0.3452	-0.0082	0.3748
48	17.01	0.01	0.0185	0.0015	0.0150	0.0811	0.8089	0.9339	-0.0074	0.3466	-0.0080	0.3711
49	17.35	0.0	0.0257	0.0013	0.0185	0.0506	0.7184	0.9431	-0.0080	0.3511	-0.0085	0.3722
50	17.67	-0.04	0.0253	0.0021	0.0184	0.0830	0.7285	0.9697	-0.0077	0.3586	-0.0079	0.3698
51	18.02	-0.04	0.0228	0.0017	0.0196	0.0767	0.8595	0.9763	-0.0084	0.3599	-0.0087	0.3686
52	18.33	-0.02	0.0277	0.0018	0.0199	0.0668	0.7195	0.9828	-0.0083	0.3615	-0.0084	0.3678
53	18.70	-0.03	0.0361	0.0020	0.0225	0.0554	0.6241	1.0041	-0.0082	0.3654	-0.0082	0.3639
54	19.00	-0.04	0.0365	0.0012	0.0226	0.0342	0.6181	1.0130	-0.0080	0.3671	-0.0079	0.3624
55	19.35	-0.02	0.0195	0.0016	0.0165	0.0820	0.8460	1.0273	-0.0086	0.3718	-0.0084	0.3619
56	19.67	-0.07	0.0285	0.0025	0.0202	0.0895	0.7087	1.0355	-0.0090	0.3753	-0.0087	0.3625
57	20.03	-0.06	0.0327	0.0015	0.0221	0.0459	0.6757	1.0493	-0.0090	0.3777	-0.0086	0.3600
58	20.35	-0.03	0.0372	0.0015	0.0266	0.0403	0.7149	1.0553	-0.0088	0.3794	-0.0083	0.3596
59	20.71	-0.02	0.0301	0.0016	0.0222	0.0531	0.7385	1.0668	-0.0090	0.3835	-0.0085	0.3595
60	21.05	-0.02	0.0329	0.0009	0.0237	0.0274	0.7192	1.0810	-0.0098	0.3868	-0.0091	0.3578
61	21.36	-0.09	0.0411	0.0013	0.0264	0.0328	0.6422	1.0835	-0.0086	0.3866	-0.0079	0.3568
62	21.69	-0.06	0.0376	0.0010	0.0257	0.0266	0.6843	1.1001	-0.0086	0.3891	-0.0079	0.3537
63	21.97	-0.07	0.0365	0.0003	0.0276	0.0096	0.7551	1.1020	-0.0091	0.3918	-0.0083	0.3555
64	22.30	-0.06	0.0451	0.0005	0.0287	0.0111	0.6370	1.1150	-0.0086	0.3957	-0.0077	0.3549
65	22.67	-0.05	0.0388	0.0007	0.0273	0.0193	0.7043	1.1158	-0.0091	0.3945	-0.0082	0.3536
66	22.99	-0.10	0.0366	0.0005	0.0261	0.0150	0.7130	1.1282	-0.0092	0.3970	-0.0082	0.3519
67	23.27	-0.05	0.0364	0.0007	0.0267	0.0206	0.7343	1.1440	-0.0103	0.4029	-0.0090	0.3522
68	23.61	-0.03	0.0399	0.0008	0.0281	0.0200	0.7041	1.1488	-0.0094	0.4016	-0.0082	0.3496
69	23.94	-0.04	0.0400	0.0008	0.0271	0.0212	0.6782	1.1595	-0.0087	0.4062	-0.0075	0.3503
70	24.28	-0.08	0.0448	0.0010	0.0288	0.0223	0.6435	1.1555	-0.0090	0.4044	-0.0078	0.3500
71	24.60	-0.07	0.0439	0.0004	0.0285	0.0091	0.6590	1.1757	-0.0099	0.4090	-0.0085	0.3478
72	24.91	-0.07	0.0301	0.0012	0.0252	0.0399	0.8382	1.1752	-0.0093	0.4072	-0.0079	0.3465
73	25.24	-0.10	0.0487	0.0022	0.0318	0.0452	0.6535	1.1834	-0.0089	0.4096	-0.0076	0.3461
74	25.50	-0.07	0.0529	0.0013	0.0326	0.0255	0.6168	1.1994	-0.0091	0.4135	-0.0076	0.3448
75	25.83	-0.06	0.0396	0.0011	0.0303	0.0278	0.7650	1.2027	-0.0094	0.4180	-0.0078	0.3476
76	26.14	-0.04	0.0360	0.0014	0.0266	0.0389	0.7443	1.2117	-0.0104	0.4170	-0.0086	0.3442
77	26.41	-0.05	0.0541	0.0011	0.0346	0.0203	0.6401	1.2280	-0.0103	0.4225	-0.0084	0.3440
78	26.70	-0.06	0.0480	0.0011	0.0328	0.0229	0.6632	1.2424	-0.0109	0.4260	-0.0088	0.3429
79	27.07	-0.05	0.0318	0.0005	0.0245	0.0173	0.7703	1.2555	-0.0115	0.4289	-0.0092	0.3417
80	27.38	-0.05	0.0517	0.0011	0.0332	0.0222	0.6427	1.2666	-0.0104	0.4320	-0.0082	0.3411
81	27.67	-0.05	0.0480	0.0014	0.0313	0.0302	0.6520	1.2580	-0.0074	0.4301	-0.0059	0.3419
82	27.99	-0.06	0.0518	0.0015	0.0318	0.0290	0.6131	1.2857	-0.0073	0.4367	-0.0057	0.3397
83	28.28	-0.08	0.0492	0.0018	0.0308	0.0376	0.6259	1.2967	-0.0072	0.4381	-0.0056	0.3378
84	28.58	-0.02	0.0402	0.0009	0.0273	0.0224	0.6790	1.2948	-0.0077	0.4387	-0.0059	0.3389
85	28.94	-0.14	0.0551	0.0023	0.0338	0.0417	0.6127	1.3126	-0.0060	0.4420	-0.0046	0.3367
86	29.18	-0.02	0.0463	0.0012	0.0296	0.0270	0.6399	1.3057	-0.0069	0.4416	-0.0053	0.3382
87	29.50	-0.04	0.0530	0.0023	0.0320	0.0434	0.6030	1.3112	-0.0072	0.4397	-0.0055	0.3353
88	29.84	0.02	0.0593	0.0024	0.0336	0.0413	0.5659	1.3362	-0.0062	0.4486	-0.0047	0.3358

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	17	1.05	1.7	0.0	82WOP12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.74	-0.04	-0.4400	1.2140	-0.0490	-0.0414	0.0200	0.3323	-2.7588		
2	-2.39	-0.01	-0.3857	1.0300	-0.0250	-0.0540	0.0180	0.3287	-2.6701		
3	-1.78	0.04	-0.2739	0.7424	-0.0233	0.0066	0.0180	0.3242	-2.7107		
4	-1.20	0.01	-0.1684	0.4877	-0.0248	-0.0853	0.0200	0.3252	-2.8464		
5	-0.67	-0.01	-0.0922	0.2920	-0.0199	-0.0331	0.0220	0.3414	-3.1679		
6	-0.09	0.04	-0.0008	0.1121	-0.0261	-0.0774	0.0200	0.3572	-140.1500		
7	0.41	-0.01	0.0796	-0.1294	-0.0420	-0.0352	0.0210	0.3571	-1.6261		
8	0.91	0.02	0.1548	-0.2937	-0.0264	-0.0800	0.0200	0.3681	-1.8974		
9	1.40	0.03	0.2286	-0.5120	-0.0331	-0.0806	0.0230	0.3812	-2.2399		
10	1.88	0.0	0.3280	-0.7891	0.0409	-0.1412	0.0200	0.3806	-2.4061		
11	2.39	0.02	0.4058	-1.0021	0.0610	-0.1294	0.0180	0.3739	-2.4692		
12	2.85	0.02	0.4832	-1.1955	-0.0075	0.0322	0.0220	0.3691	-2.4739		
13	3.35	0.02	0.5906	-1.4018	0.0068	-0.0845	0.0200	0.3678	-2.3734		
14	3.80	0.03	0.6618	-1.6004	-0.0646	-0.0686	0.0210	0.3575	-2.4183		
15	4.24	0.02	0.7441	-1.8566	-0.0745	0.0493	0.0250	0.3546	-2.4683		
16	4.70	0.0	0.8464	-2.0858	-0.0401	-0.0069	0.0250	0.3484	-2.4644		
17	5.13	0.02	0.9403	-2.3403	-0.0041	0.0267	0.0230	0.3434	-2.4889		
18	5.59	0.02	0.9911	-2.5213	-0.0076	0.0346	0.0260	0.3199	-2.5441		
19	6.02	0.02	1.0773	-2.7660	0.0590	0.0684	0.0220	0.3173	-2.5676		
20	6.49	0.05	1.2144	-3.0710	0.1192	-0.1089	0.0210	0.3253	-2.5288		
21	6.92	0.04	1.2759	-3.2381	-0.0034	-0.0472	0.0230	0.3276	-2.5378		
22	7.38	0.04	1.3940	-3.5074	-0.0083	0.0126	0.0200	0.3322	-2.5071		
23	7.82	0.07	1.4799	-3.6597	0.0553	0.0116	0.0210	0.3181	-2.4729		
24	8.24	0.06	1.5384	-3.8105	0.0043	0.1390	0.0210	0.3084	-2.4770		
25	8.65	-0.03	1.6052	-3.9840	-0.1751	0.0217	0.0280	0.3026	-2.4820		
26	9.07	0.04	1.6816	-4.1270	0.0029	-0.0845	0.0220	0.3002	-2.4542		
27	9.47	-0.02	1.7580	-4.2739	0.0425	0.0215	0.0210	0.3030	-2.4312		
28	9.87	0.06	1.8390	-4.4373	-0.0310	0.0684	0.0220	0.2982	-2.4129		
29	10.27	0.05	1.9040	-4.5563	-0.0534	0.1057	0.0240	0.2942	-2.3931		
30	10.67	0.01	1.9864	-4.7539	0.0746	0.0516	0.0200	0.3025	-2.3931		
31	11.06	0.05	2.0888	-4.9861	0.0120	0.0732	0.0240	0.3111	-2.3870		
32	11.44	0.04	2.1968	-5.1293	0.0170	0.1182	0.0160	0.3354	-2.3349		
33	11.81	0.02	2.2347	-5.2563	0.0329	0.1165	0.0240	0.3500	-2.3521		
34	12.16	-0.04	2.3306	-5.4455	-0.0515	0.1161	0.0200	0.3501	-2.3365		
35	12.54	-0.03	2.4061	-5.5572	-0.0578	0.1469	0.0180	0.3442	-2.3097		
36	12.87	0.0	2.4704	-5.6842	-0.0465	0.1351	0.0130	0.3417	-2.3010		
37	13.26	-0.01	2.5355	-5.8384	0.0202	0.1827	0.0210	0.3449	-2.3027		
38	13.60	-0.02	2.6026	-5.9463	-0.0622	0.1891	0.0070	0.3407	-2.2848		
39	13.97	0.03	2.7269	-6.1324	0.0237	0.1758	0.0120	0.3369	-2.2488		
40	14.31	0.0	2.7622	-6.1408	0.0444	0.2028	0.0140	0.3225	-2.2231		
41	14.67	-0.01	2.8436	-6.2868	-0.0128	0.2649	0.0160	0.3052	-2.2108		
42	15.00	-0.01	2.9109	-6.4080	0.0272	0.0199	0.0080	0.3055	-2.2014		
43	15.36	-0.03	3.0110	-6.5131	-0.0666	0.0782	0.0120	0.3056	-2.1631		
44	15.69	0.01	3.0771	-6.5996	-0.0298	0.2517	0.0070	0.2998	-2.1448		
45	16.01	-0.02	3.1047	-6.6503	-0.0297	0.1856	0.0	0.2999	-2.1420		
46	16.35	-0.01	3.2061	-6.8062	-0.0457	0.3489	0.0130	0.2917	-2.1229		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	17	1.05	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.67	-0.01	3.2940	-7.0002	0.0294	0.1278	-0.0020	0.2995	-2.1252	
48	17.01	0.0	3.3541	-7.0044	0.0360	0.2526	-0.0030	0.2968	-2.0883	
49	17.33	-0.02	3.4209	-7.1249	0.0201	0.3438	-0.0040	0.2875	-2.0828	
50	17.68	-0.05	3.5111	-7.2143	-0.0067	0.3863	-0.0100	0.2848	-2.0547	
51	18.01	0.01	3.5916	-7.2840	-0.0034	0.1837	-0.0120	0.2736	-2.0280	
52	18.36	0.0	3.7047	-7.4203	-0.0318	0.2115	-0.0160	0.2769	-2.0029	
53	18.67	-0.07	3.7402	-7.5140	-0.0862	0.3036	0.0010	0.2865	-2.0090	
54	18.99	-0.01	3.8664	-7.6807	0.0417	0.1796	-0.0130	0.3000	-1.9865	
55	19.35	-0.01	3.9673	-7.7569	0.0355	0.0623	-0.0180	0.3237	-1.9552	
56	19.67	-0.04	4.0247	-7.7223	0.0134	0.2432	-0.0130	0.3249	-1.9187	
57	20.00	-0.03	4.0493	-7.7617	-0.0636	0.3530	-0.0130	0.3297	-1.9168	
58	20.34	-0.02	4.1975	-7.8022	-0.0394	0.2031	-0.0220	0.3198	-1.8588	
59	20.69	-0.04	4.2195	-7.8681	-0.0425	0.3125	-0.0160	0.3130	-1.8647	
60	21.02	-0.05	4.3529	-7.8489	-0.1418	0.4345	-0.0230	0.3064	-1.8031	
61	21.33	-0.02	4.4075	-7.9633	0.0284	0.4582	-0.0310	0.3029	-1.8068	
62	21.67	-0.01	4.5318	-8.0103	0.0679	0.5479	-0.0350	0.2890	-1.7676	
63	21.97	-0.06	4.5724	-8.1701	-0.1505	0.2992	-0.0200	0.2810	-1.7868	
64	22.28	-0.05	4.6707	-8.2627	0.0788	0.1557	-0.0200	0.2771	-1.7691	
65	22.59	-0.07	4.7698	-8.3885	-0.1855	0.2857	-0.0210	0.2580	-1.7587	
66	22.89	-0.05	4.7850	-8.4237	-0.1182	0.3664	-0.0330	0.2486	-1.7605	
67	23.22	-0.06	4.8696	-8.4702	-0.1351	0.6391	-0.0430	0.2474	-1.7394	
68	23.56	-0.05	5.0567	-8.4772	0.0393	0.2369	-0.0320	0.2301	-1.6764	
69	23.87	-0.03	5.0061	-8.4404	-0.0878	0.5299	-0.0340	0.2233	-1.6860	
70	24.19	-0.06	5.1513	-8.5157	0.0772	0.0619	-0.0230	0.2331	-1.6531	
71	24.51	-0.07	5.2526	-8.5315	0.1025	0.0015	-0.0160	0.2277	-1.6242	
72	24.83	-0.08	5.3599	-8.5037	0.0099	-0.0029	-0.0070	0.2199	-1.5865	
73	25.13	-0.09	5.4784	-8.5576	-0.0590	0.0536	-0.0040	0.2204	-1.5621	
74	25.46	-0.08	5.5282	-8.5183	-0.1367	0.4583	-0.0320	0.2164	-1.5409	
75	25.74	-0.07	5.6092	-8.5507	-0.0597	0.3885	-0.0280	0.1992	-1.5244	
76	26.04	-0.09	5.7418	-8.5365	-0.0425	0.1905	-0.0150	0.1977	-1.4867	
77	26.36	-0.08	5.8668	-8.4755	-0.0856	0.2598	-0.0200	0.1900	-1.4397	
78	26.65	-0.08	5.9844	-8.5202	-0.0729	0.1060	-0.0040	0.1874	-1.4237	
79	26.97	-0.07	6.1065	-8.6121	0.1417	-0.3323	0.0340	0.1747	-1.4103	
80	27.31	-0.05	6.2853	-8.4574	0.2118	-0.2255	0.0260	0.1522	-1.3456	
81	27.61	-0.07	6.2927	-8.5228	-0.0513	0.2158	-0.0190	0.1724	-1.3544	
82	27.91	-0.08	6.4197	-8.5716	0.0112	-0.0437	0.0130	0.1689	-1.3352	
83	28.22	-0.09	6.5363	-8.5840	0.0033	-0.2686	0.0370	0.1466	-1.3133	
84	28.56	-0.02	6.6755	-8.5108	0.1475	0.1335	0.0100	0.1196	-1.2749	
85	28.88	-0.07	6.8324	-8.4745	-0.1047	0.3805	-0.0080	0.0997	-1.2403	
86	29.21	-0.08	6.9939	-8.4136	-0.1814	0.2769	-0.0050	0.0576	-1.2030	
87	29.52	-0.16	7.0585	-8.4810	-0.4756	-0.0970	0.0410	0.0770	-1.2015	
88	29.73	0.03	7.0507	-8.5401	0.3095	0.4866	-0.0020	0.0765	-1.2112	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	17	1.05	1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.74	-0.04	-0.0249	0.0005	0.0004	-0.0201	-0.0162	-0.1731	0.0021	-0.0734	-0.0124	0.4239
2	-2.39	-0.01	-0.0218	0.0002	0.0024	-0.0092	-0.1117	-0.1498	0.0017	-0.0651	-0.0117	0.4347
3	-1.78	0.04	-0.0155	0.0000	0.0020	-0.0032	-0.1313	-0.1125	0.0012	-0.0500	-0.0111	0.4443
4	-1.20	0.01	-0.0193	0.0002	0.0033	-0.0104	-0.1694	-0.0688	0.0004	-0.0295	-0.0058	0.4291
5	-0.67	-0.01	-0.0151	-0.0002	0.0051	0.0166	-0.3357	-0.0649	0.0000	-0.0197	-0.0011	0.4379
6	-0.09	0.04	-0.0209	0.0001	0.0043	-0.0064	-0.2075	-0.0103	-0.0003	-0.0056	0.0291	0.5468
7	0.41	-0.01	-0.0196	0.0	0.0034	0.0	-0.1719	0.0157	-0.0008	0.0064	-0.0509	0.4096
8	0.91	0.02	-0.0213	-0.0001	0.0049	0.0070	-0.2302	0.0622	-0.0012	0.0168	-0.0284	0.3972
9	1.40	0.03	-0.0148	-0.0008	0.0058	0.0540	-0.3898	0.0815	-0.0012	0.0339	-0.0153	0.4154
10	1.88	0.0	-0.0129	-0.0004	0.0061	0.0310	-0.4730	0.1144	-0.0025	0.0499	-0.0223	0.4364
11	2.39	0.02	-0.0107	-0.0005	0.0068	0.0514	-0.6387	0.1464	-0.0027	0.0628	-0.0184	0.4288
12	2.85	0.02	-0.0223	-0.0002	0.0026	0.0112	-0.1152	0.1716	-0.0023	0.0717	-0.0137	0.4177
13	3.35	0.02	-0.0117	-0.0012	0.0061	0.1068	-0.5215	0.2035	-0.0027	0.0860	-0.0133	0.4226
14	3.80	0.03	-0.0171	-0.0007	0.0054	0.0409	-0.3159	0.2302	-0.0037	0.0970	-0.0161	0.4214
15	4.24	0.02	-0.0162	-0.0009	0.0053	0.0546	-0.3273	0.2570	-0.0040	0.1067	-0.0158	0.4153
16	4.70	0.0	-0.0171	-0.0009	0.0032	0.0526	-0.1873	0.2942	-0.0040	0.1232	-0.0136	0.4188
17	5.13	0.02	-0.0143	-0.0014	0.0051	0.0979	-0.3591	0.3278	-0.0042	0.1325	-0.0128	0.4043
18	5.59	0.02	-0.0147	-0.0011	0.0016	0.0748	-0.1090	0.3551	-0.0047	0.1423	-0.0132	0.4008
19	6.02	0.02	-0.0107	-0.0017	0.0026	0.1589	-0.2462	0.3874	-0.0048	0.1552	-0.0125	0.4006
20	6.49	0.05	-0.0113	-0.0014	0.0015	0.1239	-0.1358	0.4217	-0.0047	0.1674	-0.0113	0.3970
21	6.92	0.04	-0.0170	-0.0016	0.0022	0.0970	-0.1315	0.4498	-0.0047	0.1775	-0.0104	0.3946
22	7.38	0.04	-0.0164	-0.0021	0.0022	0.1280	-0.1363	0.4846	-0.0050	0.1884	-0.0104	0.3887
23	7.82	0.07	-0.0205	-0.0023	0.0019	0.1122	-0.0912	0.5056	-0.0047	0.1965	-0.0093	0.3886
24	8.24	0.06	-0.0240	-0.0028	0.0021	0.1187	-0.0876	0.5286	-0.0047	0.2032	-0.0089	0.3845
25	8.65	-0.03	-0.0253	-0.0028	0.0025	0.1107	-0.0976	0.5586	-0.0044	0.2132	-0.0079	0.3817
26	9.07	0.08	-0.0293	-0.0030	0.0014	0.1024	-0.0490	0.5780	-0.0039	0.2185	-0.0067	0.3780
27	9.47	-0.02	-0.0306	-0.0037	0.0023	0.1225	-0.0753	0.5970	-0.0040	0.2257	-0.0068	0.3781
28	9.87	0.06	-0.0326	-0.0034	0.0020	0.1643	-0.0625	0.6184	-0.0036	0.2329	-0.0058	0.3765
29	10.27	0.05	-0.0351	-0.0042	0.0016	0.1196	-0.0457	0.6337	-0.0033	0.2386	-0.0053	0.3766
30	10.67	0.01	-0.0339	-0.0048	0.0045	0.1416	-0.1329	0.6569	-0.0036	0.2457	-0.0055	0.3730
31	11.06	0.05	-0.0402	-0.0041	0.0005	0.1032	-0.0225	0.6880	-0.0040	0.2541	-0.0059	0.3694
32	11.44	0.04	-0.0461	-0.0032	-0.0019	0.0705	0.0404	0.7110	-0.0045	0.2596	-0.0063	0.3651
33	11.81	0.02	-0.0449	-0.0048	-0.0003	0.1080	0.0058	0.7315	-0.0045	0.2647	-0.0061	0.3619
34	12.16	-0.04	-0.0537	-0.0049	-0.0005	0.0412	0.0092	0.7460	-0.0049	0.2698	-0.0066	0.3616
35	12.54	-0.03	-0.0487	-0.0041	-0.0012	0.0852	0.0252	0.7735	-0.0044	0.2756	-0.0057	0.3564
36	12.87	0.0	-0.0610	-0.0048	-0.0042	0.0793	0.0693	0.7844	-0.0035	0.2784	-0.0045	0.3549
37	13.26	-0.01	-0.0567	-0.0067	-0.0007	0.1190	0.0122	0.7998	-0.0045	0.2847	-0.0057	0.3560
38	13.60	-0.02	-0.0564	-0.0047	-0.0077	0.0833	0.1364	0.8210	-0.0042	0.2891	-0.0052	0.3522
39	13.97	0.03	-0.0594	-0.0043	-0.0096	0.0724	0.1615	0.8370	-0.0041	0.2943	-0.0049	0.3516
40	14.31	0.0	-0.0686	-0.0059	-0.0074	0.0867	0.1073	0.8499	-0.0034	0.2953	-0.0041	0.3474
41	14.67	-0.01	-0.0703	-0.0056	-0.0103	0.0796	0.1469	0.8637	-0.0033	0.3005	-0.0038	0.3479
42	15.00	-0.01	-0.0723	-0.0066	-0.0078	0.0920	0.1078	0.8760	-0.0034	0.3030	-0.0039	0.3459
43	15.36	-0.03	-0.0779	-0.0049	-0.0132	0.0635	0.1689	0.8974	-0.0038	0.3088	-0.0042	0.3441
44	15.69	0.01	-0.0849	-0.0083	-0.0096	0.0977	0.1130	0.9090	-0.0042	0.3109	-0.0046	0.3420
45	16.01	-0.02	-0.0849	-0.0047	-0.0187	0.0559	0.1966	0.9201	-0.0038	0.3146	-0.0041	0.3419
46	16.35	-0.01	-0.0935	-0.0097	-0.0106	0.1043	0.1129	0.9280	-0.0039	0.3152	-0.0042	0.3397

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	17	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.67	-0.01	-0.0824	-0.0035	-0.0204	0.0425	0.2470	0.9612	-0.0041	0.3232	-0.0043	0.3362
48	17.01	0.0	-0.0939	-0.0051	-0.0209	0.0543	0.2225	0.9639	-0.0044	0.3235	-0.0046	0.3356
49	17.33	-0.02	-0.0951	-0.0058	-0.0207	0.0615	0.2175	0.9762	-0.0048	0.3266	-0.0049	0.3338
50	17.66	-0.05	-0.1052	-0.0073	-0.0209	0.0694	0.1982	0.9947	-0.0046	0.3306	-0.0047	0.3323
51	18.01	0.01	-0.1015	-0.0058	-0.0209	0.0571	0.2061	1.0099	-0.0048	0.3344	-0.0048	0.3311
52	18.36	0.0	-0.0898	-0.0027	-0.0240	0.0301	0.2675	1.0340	-0.0055	0.3410	-0.0054	0.3298
53	18.67	-0.07	-0.0999	-0.0077	-0.0168	0.0771	0.1681	1.0391	-0.0062	0.3426	-0.0060	0.3298
54	18.99	-0.01	-0.0986	-0.0049	-0.0218	0.0502	0.2206	1.0614	-0.0064	0.3476	-0.0061	0.3275
55	19.35	-0.01	-0.0840	-0.0017	-0.0241	0.0208	0.2868	1.0814	-0.0077	0.3504	-0.0072	0.3241
56	19.67	-0.04	-0.0627	-0.0003	-0.0233	0.0036	0.2812	1.0796	-0.0080	0.3531	-0.0074	0.3271
57	20.00	-0.03	-0.1268	-0.0081	-0.0284	0.0639	0.2244	1.0669	-0.0069	0.3485	-0.0065	0.3267
58	20.34	-0.02	-0.0925	-0.0003	-0.0301	0.0032	0.3256	1.0951	-0.0077	0.3544	-0.0070	0.3236
59	20.69	-0.04	-0.1126	-0.0021	-0.0310	0.0186	0.2755	1.0946	-0.0072	0.3539	-0.0066	0.3233
60	21.02	-0.05	-0.1072	0.0038	-0.0383	-0.0354	0.3575	1.1060	-0.0073	0.3567	-0.0066	0.3225
61	21.33	-0.02	-0.1192	-0.0021	-0.0367	0.0176	0.3080	1.1095	-0.0077	0.3574	-0.0069	0.3221
62	21.67	-0.01	-0.1183	0.0014	-0.0345	-0.0118	0.3441	1.1228	-0.0079	0.3627	-0.0071	0.3231
63	21.97	-0.06	-0.1081	-0.0002	-0.0324	0.0023	0.2999	1.1428	-0.0080	0.3672	-0.0070	0.3213
64	22.28	-0.05	-0.0906	0.0008	-0.0289	-0.0094	0.3189	1.1606	-0.0089	0.3684	-0.0077	0.3174
65	22.59	-0.07	-0.1164	-0.0005	-0.0331	0.0047	0.2842	1.1769	-0.0077	0.3757	-0.0066	0.3192
66	22.89	-0.05	-0.1629	-0.0026	-0.0501	0.0160	0.3074	1.1899	-0.0064	0.3761	-0.0054	0.3161
67	23.22	-0.06	-0.1445	-0.0003	-0.0480	0.0024	0.3325	1.1943	-0.0076	0.3770	-0.0064	0.3156
68	23.56	-0.05	-0.0929	0.0042	-0.0320	-0.0452	0.3451	1.2095	-0.0087	0.3800	-0.0072	0.3142
69	23.87	-0.03	-0.0947	0.0032	-0.0298	-0.0343	0.3142	1.2316	-0.0072	0.3863	-0.0058	0.3137
70	24.19	-0.06	-0.1012	0.0024	-0.0363	-0.0242	0.3787	1.2267	-0.0086	0.3831	-0.0070	0.3123
71	24.51	-0.07	-0.0612	0.0041	-0.0242	-0.0678	0.3953	1.2340	-0.0097	0.3874	-0.0079	0.3139
72	24.83	-0.08	-0.0453	0.0038	-0.0136	-0.0850	0.3001	1.2466	-0.0102	0.3881	-0.0082	0.3113
73	25.13	-0.09	-0.0854	0.0014	-0.0261	-0.0170	0.3051	1.2376	-0.0096	0.3869	-0.0078	0.3126
74	25.46	-0.08	-0.1575	0.0	-0.0610	0.0	0.3872	1.2360	-0.0090	0.3858	-0.0073	0.3122
75	25.74	-0.07	-0.1154	0.0010	-0.0429	-0.0091	0.3722	1.2449	-0.0088	0.3869	-0.0071	0.3108
76	26.04	-0.09	-0.0464	0.0000	-0.0042	0.0011	0.0897	1.2644	-0.0108	0.3945	-0.0085	0.3119
77	26.36	-0.08	-0.0824	0.0014	-0.0208	-0.0170	0.2519	1.2699	-0.0105	0.3949	-0.0083	0.3110
78	26.65	-0.08	-0.0662	0.0013	-0.0195	-0.0196	0.2939	1.2789	-0.0108	0.3963	-0.0084	0.3099
79	26.97	-0.07	-0.0110	-0.0000	0.0141	0.0045	-1.2850	1.2950	-0.0105	0.4013	-0.0081	0.3099
80	27.31	-0.05	0.0114	-0.0008	0.0162	-0.0702	1.4209	1.2949	-0.0094	0.4009	-0.0073	0.3096
81	27.61	-0.07	-0.0819	0.0022	-0.0234	-0.0275	0.2856	1.3029	-0.0109	0.4012	-0.0084	0.3080
82	27.91	-0.08	-0.0788	0.0009	-0.0245	-0.0114	0.3104	1.3040	-0.0108	0.4025	-0.0083	0.3087
83	28.22	-0.09	-0.0046	-0.0000	0.0137	0.0052	-1.4272	1.3113	-0.0105	0.4047	-0.0079	0.3067
84	28.56	-0.02	-0.0521	-0.0010	-0.0004	0.0192	0.0069	1.3092	-0.0088	0.4029	-0.0068	0.3078
85	28.88	-0.07	-0.0772	-0.0022	-0.0078	0.0285	0.1013	1.3118	-0.0086	0.4029	-0.0066	0.3071
86	29.21	-0.08	-0.0491	-0.0017	0.0059	0.0346	-0.1210	1.3192	-0.0073	0.4043	-0.0056	0.3065
87	29.52	-0.16	-0.0248	-0.0048	0.0230	0.1935	-0.9289	1.3203	-0.0092	0.4073	-0.0070	0.3085
88	29.73	0.03	-0.0705	-0.0022	-0.0033	0.0319	0.0467	1.3266	-0.0080	0.4079	-0.0060	0.3075

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	17	1.05	1.7	0.0	0.2	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.74	-0.04	-0.0111	0.0007	-0.0022	-0.0676	0.1981	-0.2315	0.0023	-0.0599	-0.0101	0.2589
2	-2.39	-0.01	-0.0030	0.0004	0.0001	-0.1500	-0.0335	-0.2142	0.0021	-0.0519	-0.0100	0.2422
3	-1.78	0.04	0.0010	0.0005	-0.0001	0.4999	-0.0668	-0.1677	0.0016	-0.0350	-0.0098	0.2086
4	-1.20	0.01	-0.0073	0.0007	0.0004	-0.1027	-0.0503	-0.1286	0.0008	-0.0178	-0.0062	0.1388
5	-0.67	-0.01	-0.0003	0.0004	-0.0016	-0.0542	0.1886	-0.1036	0.0004	-0.0067	-0.0039	0.0649
6	-0.09	0.04	0.0020	0.0008	0.0014	0.3999	0.6832	-0.0554	0.0002	0.0097	-0.0045	-0.1758
7	0.41	-0.01	0.0019	0.0007	0.0027	0.3947	1.4385	-0.0281	-0.0004	0.0244	0.0160	-0.8696
8	0.91	0.02	0.0060	0.0005	0.0032	0.0833	0.5332	-0.0014	-0.0006	0.0358	0.4285	-25.5954
9	1.40	0.03	0.0019	0.0008	0.0021	0.4210	1.1227	0.0353	-0.0001	0.0502	-0.0042	1.4210
10	1.88	0.0	0.0031	0.0007	0.0040	0.2419	1.3010	0.0686	-0.0014	0.0650	-0.0204	0.9484
11	2.39	0.02	0.0004	0.0006	0.0045	0.0774	0.5356	0.1030	-0.0015	0.0769	-0.0146	0.7468
12	2.85	0.02	0.0019	0.0004	0.0037	0.2368	1.9648	0.1369	-0.0020	0.0916	-0.0150	0.6692
13	3.35	0.02	0.0003	0.0008	0.0046	0.0964	0.5501	0.1631	-0.0011	0.1014	-0.0067	0.6220
14	3.80	0.03	0.0001	0.0004	0.0080	0.0555	0.9875	0.2041	-0.0029	0.1160	-0.0142	0.5684
15	4.24	0.02	-0.0009	0.0009	0.0022	-1.0554	-2.4446	0.2171	-0.0032	0.1265	-0.0147	0.5829
16	4.70	0.0	0.0005	0.0009	0.0051	0.0947	0.5332	0.2738	-0.0028	0.1453	-0.0104	0.5308
17	5.13	0.02	0.0002	0.0007	0.0055	0.0914	0.6747	0.2962	-0.0032	0.1548	-0.0108	0.5225
18	5.59	0.02	0.0006	0.0008	0.0018	1.3331	2.9999	0.3219	-0.0045	0.1658	-0.0140	0.5149
19	6.02	0.02	0.0004	0.0007	0.0043	0.0893	0.5118	0.3552	-0.0041	0.1775	-0.0115	0.4996
20	6.49	0.05	0.0174	0.0008	0.0075	0.0460	0.4309	0.3904	-0.0038	0.1914	-0.0099	0.4902
21	6.92	0.04	0.0108	0.0010	0.0050	0.0972	0.4628	0.4184	-0.0038	0.2011	-0.0092	0.4806
22	7.38	0.04	0.0198	0.0011	0.0079	0.0555	0.3989	0.4546	-0.0039	0.2146	-0.0080	0.4720
23	7.82	0.07	0.0108	0.0008	0.0064	0.0741	0.5425	0.4779	-0.0037	0.2213	-0.0078	0.4631
24	8.24	0.06	0.0156	0.0013	0.0082	0.0865	0.5255	0.5032	-0.0032	0.2317	-0.0064	0.4604
25	8.65	-0.03	0.0104	0.0014	0.0065	0.1346	0.6217	0.5318	-0.0030	0.2414	-0.0057	0.4539
26	9.07	0.08	0.0078	0.0010	0.0082	0.1282	1.0512	0.5503	-0.0028	0.2465	-0.0051	0.4479
27	9.47	-0.02	0.0237	0.0010	0.0105	0.0422	0.4429	0.5774	-0.0030	0.2551	-0.0053	0.4418
28	9.87	0.06	0.0105	0.0009	0.0088	0.0905	0.8380	0.5991	-0.0032	0.2628	-0.0054	0.4387
29	10.27	0.05	0.0160	0.0007	0.0091	0.0469	0.5707	0.6222	-0.0036	0.2696	-0.0058	0.4333
30	10.67	0.01	0.0107	0.0006	0.0088	0.0607	0.8192	0.6441	-0.0032	0.2769	-0.0050	0.4299
31	11.06	0.05	0.0183	0.0013	0.0048	0.0710	0.5354	0.6723	-0.0035	0.2868	-0.0053	0.4266
32	11.44	0.04	0.0182	0.0010	0.0112	0.0549	0.6134	0.6981	-0.0049	0.2934	-0.0070	0.4203
33	11.81	0.02	0.0226	0.0007	0.0099	0.0332	0.4394	0.7230	-0.0057	0.3009	-0.0079	0.4162
34	12.16	-0.04	0.0207	0.0012	0.0113	0.0580	0.5458	0.7376	-0.0058	0.3053	-0.0079	0.4139
35	12.54	-0.03	0.0207	0.0011	0.0113	0.0555	0.5458	0.7579	-0.0051	0.3119	-0.0068	0.4116
36	12.87	0.0	0.0275	0.0007	0.0131	0.0273	0.4750	0.7680	-0.0054	0.3158	-0.0071	0.4112
37	13.26	-0.01	0.0183	0.0007	0.0111	0.0410	0.6064	0.7949	-0.0059	0.3236	-0.0075	0.4072
38	13.60	-0.02	0.0221	0.0009	0.0121	0.0407	0.5459	0.8132	-0.0061	0.3268	-0.0076	0.4019
39	13.97	0.03	0.0313	0.0008	0.0135	0.0272	0.4323	0.8290	-0.0062	0.3327	-0.0075	0.4014
40	14.31	0.0	0.0271	0.0013	0.0128	0.0498	0.4734	0.8464	-0.0062	0.3380	-0.0073	0.3994
41	14.67	-0.01	0.0261	0.0010	0.0118	0.0402	0.4520	0.8585	-0.0051	0.3422	-0.0060	0.3985
42	15.00	-0.01	0.0360	0.0014	0.0167	0.0389	0.4638	0.8823	-0.0049	0.3467	-0.0056	0.3929
43	15.36	-0.03	0.0279	0.0019	0.0151	0.0681	0.5411	0.8991	-0.0055	0.3508	-0.0062	0.3901
44	15.69	0.01	0.0230	0.0015	0.0129	0.0652	0.5593	0.9134	-0.0047	0.3539	-0.0051	0.3874
45	16.01	-0.02	0.0311	0.0009	0.0150	0.0305	0.4811	0.9207	-0.0054	0.3552	-0.0059	0.3858
46	16.35	-0.01	0.0349	0.0007	0.0184	0.0201	0.5281	0.9519	-0.0051	0.3646	-0.0054	0.3830

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	17	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	16.67	-0.01	0.0287	0.0004	0.0160	0.0157	0.5562	0.9513	-0.0059	0.3641	-0.0063	0.3827
48	17.01	0.0	0.0244	0.0008	0.0155	0.0348	0.6365	0.9644	-0.0061	0.3692	-0.0063	0.3828
49	17.33	-0.02	0.0411	0.0010	0.0215	0.0255	0.5230	0.9898	-0.0052	0.3736	-0.0053	0.3775
50	17.68	-0.05	0.0367	-0.0000	0.0190	-0.0014	0.5185	1.0038	-0.0059	0.3771	-0.0059	0.3756
51	18.01	0.01	0.0325	0.0002	0.0192	0.0062	0.5917	1.0053	-0.0057	0.3781	-0.0057	0.3761
52	18.36	0.0	0.0360	0.0010	0.0197	0.0292	0.5471	1.0255	-0.0057	0.3828	-0.0056	0.3733
53	18.67	-0.07	0.0308	0.0009	0.0190	0.0292	0.6157	1.0521	-0.0059	0.3898	-0.0057	0.3705
54	18.99	-0.01	0.0358	0.0010	0.0207	0.0279	0.5790	1.0662	-0.0072	0.3930	-0.0068	0.3686
55	19.35	-0.01	0.0410	0.0005	0.0237	0.0122	0.5771	1.0673	-0.0080	0.3950	-0.0075	0.3701
56	19.67	-0.04	0.0446	0.0008	0.0234	0.0191	0.5238	1.0718	-0.0079	0.3951	-0.0074	0.3687
57	20.00	-0.03	0.0409	0.0003	0.0220	0.0086	0.5386	1.0910	-0.0085	0.4002	-0.0078	0.3668
58	20.34	-0.02	0.0394	0.0001	0.0228	0.0038	0.5794	1.0913	-0.0076	0.3986	-0.0070	0.3653
59	20.69	-0.04	0.0356	-0.0002	0.0226	-0.0070	0.6338	1.1021	-0.0082	0.4026	-0.0074	0.3653
60	21.02	-0.05	0.0389	0.0007	0.0235	0.0180	0.6031	1.1042	-0.0077	0.4033	-0.0070	0.3653
61	21.33	-0.02	0.0456	0.0001	0.0250	0.0033	0.5481	1.1267	-0.0085	0.4087	-0.0075	0.3628
62	21.67	-0.01	0.0403	0.0001	0.0256	0.0025	0.6359	1.1319	-0.0085	0.4109	-0.0075	0.3630
63	21.97	-0.06	0.0338	0.0007	0.0220	0.0207	0.6498	1.1425	-0.0084	0.4119	-0.0073	0.3605
64	22.28	-0.05	0.0396	0.0010	0.0271	0.0265	0.6842	1.1553	-0.0082	0.4157	-0.0071	0.3598
65	22.59	-0.07	0.0443	0.0000	0.0267	0.0011	0.6018	1.1796	-0.0084	0.4211	-0.0071	0.3569
66	22.89	-0.05	0.0401	0.0009	0.0245	0.0224	0.6200	1.2092	-0.0080	0.4273	-0.0066	0.3534
67	23.22	-0.06	0.0450	0.0012	0.0266	0.0278	0.5910	1.2040	-0.0082	0.4290	-0.0068	0.3563
68	23.56	-0.05	0.0548	0.0015	0.0319	0.0274	0.5814	1.2024	-0.0071	0.4282	-0.0059	0.3562
69	23.87	-0.03	0.0423	0.0014	0.0264	0.0343	0.6240	1.2123	-0.0065	0.4287	-0.0054	0.3537
70	24.19	-0.06	0.0549	0.0014	0.0319	0.0255	0.5809	1.2279	-0.0075	0.4325	-0.0061	0.3523
71	24.51	-0.07	0.0516	0.0009	0.0291	0.0184	0.5638	1.2196	-0.0078	0.4315	-0.0064	0.3538
72	24.83	-0.08	0.0462	0.0012	0.0283	0.0271	0.6124	1.2205	-0.0078	0.4312	-0.0064	0.3533
73	25.13	-0.09	0.0474	0.0014	0.0282	0.0295	0.5948	1.2374	-0.0081	0.4340	-0.0065	0.3507
74	25.46	-0.08	0.0412	0.0010	0.0265	0.0255	0.6439	1.2607	-0.0094	0.4415	-0.0075	0.3502
75	25.74	-0.07	0.0474	0.0012	0.0288	0.0264	0.6075	1.2625	-0.0078	0.4386	-0.0062	0.3474
76	26.04	-0.09	0.0498	0.0015	0.0301	0.0301	0.6043	1.2572	-0.0078	0.4392	-0.0062	0.3494
77	26.36	-0.08	0.0471	0.0016	0.0295	0.0350	0.6262	1.2699	-0.0082	0.4422	-0.0065	0.3483
78	26.65	-0.08	0.0550	0.0012	0.0311	0.0218	0.5659	1.2808	-0.0081	0.4440	-0.0063	0.3466
79	26.97	-0.07	0.0497	0.0018	0.0286	0.0372	0.5747	1.2790	-0.0072	0.4430	-0.0057	0.3463
80	27.31	-0.05	0.0595	0.0018	0.0349	0.0302	0.5870	1.2918	-0.0063	0.4461	-0.0049	0.3454
81	27.61	-0.07	0.0522	0.0017	0.0303	0.0335	0.5803	1.3013	-0.0085	0.4506	-0.0066	0.3463
82	27.91	-0.08	0.0548	0.0016	0.0310	0.0301	0.5650	1.3158	-0.0086	0.4520	-0.0066	0.3435
83	28.22	-0.09	0.0588	0.0015	0.0314	0.0264	0.5339	1.3097	-0.0069	0.4507	-0.0053	0.3441
84	28.56	-0.02	0.0591	0.0010	0.0323	0.0178	0.5464	1.3188	-0.0059	0.4550	-0.0045	0.3450
85	28.88	-0.07	0.0598	0.0018	0.0337	0.0309	0.5640	1.3319	-0.0047	0.4591	-0.0036	0.3447
86	29.21	-0.08	0.0588	0.0021	0.0307	0.0357	0.5220	1.3255	-0.0044	0.4559	-0.0034	0.3439
87	29.52	-0.16	0.0651	0.0022	0.0337	0.0338	0.5175	1.3482	-0.0043	0.4613	-0.0032	0.3422
88	29.73	0.03	0.0398	0.0015	0.0260	0.0389	0.6523	1.3399	-0.0046	0.4593	-0.0034	0.3428

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	18	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.73	0.07	-0.4326	1.2226	0.0808	0.0352	0.0240	0.2866	-2.8259	
2	-2.58	0.07	-0.4018	1.1005	0.0808	-0.0471	0.0210	0.2803	-2.7386	
3	-2.00	0.04	-0.3185	0.8708	-0.0161	-0.0555	0.0220	0.2936	-2.7344	
4	-1.37	0.05	-0.2134	0.5827	0.0861	-0.0745	0.0220	0.3030	-2.7308	
5	-0.81	0.04	-0.1265	0.3701	0.0302	-0.0393	0.0200	0.3060	-2.9257	
6	-0.27	0.04	-0.0213	0.1208	0.0237	-0.0132	0.0200	0.3184	-5.6723	
7	0.24	0.04	0.0528	-0.0749	0.0220	-0.0808	0.0230	0.3105	-1.4189	
8	0.77	0.01	0.1340	-0.2416	0.1015	-0.1636	0.0240	0.3197	-1.8030	
9	1.25	0.05	0.2112	-0.4746	0.0344	-0.0652	0.0220	0.3205	-2.2475	
10	1.77	0.04	0.3178	-0.6948	-0.0100	-0.0120	0.0220	0.3207	-2.1867	
11	2.23	0.05	0.4044	-0.9102	0.0812	-0.0057	0.0210	0.3167	-2.2504	
12	2.71	0.03	0.4814	-1.1479	0.0627	-0.0478	0.0260	0.3121	-2.3844	
13	3.19	0.02	0.5509	-1.3136	0.1116	-0.1292	0.0270	0.3048	-2.3507	
14	3.66	0.01	0.6490	-1.5665	-0.0507	-0.0380	0.0250	0.3078	-2.4137	
15	4.13	0.05	0.7364	-1.7829	0.0406	0.0182	0.0280	0.2959	-2.4210	
16	4.57	0.03	0.7760	-1.9493	-0.0547	-0.0064	0.0300	0.2952	-2.5120	
17	5.03	0.03	0.8837	-2.1690	0.0404	0.0454	0.0250	0.2944	-2.4545	
18	5.46	-0.03	0.9883	-2.4714	-0.1030	0.0702	0.0300	0.2942	-2.5038	
19	5.92	0.01	1.0603	-2.6222	-0.0502	0.1093	0.0270	0.2854	-2.4732	
20	6.35	0.03	1.1572	-2.8940	0.0924	-0.0384	0.0240	0.2884	-2.5007	
21	6.81	0.05	1.2170	-3.0647	0.0279	0.0349	0.0230	0.2896	-2.5181	
22	7.26	-0.01	1.3278	-3.2898	-0.0943	0.0670	0.0290	0.2853	-2.4776	
23	7.67	0.01	1.4330	-3.5020	0.0775	-0.1165	0.0260	0.2800	-2.4438	
24	8.12	0.0	1.4688	-3.6051	-0.0253	-0.1596	0.0290	0.2651	-2.4545	
25	8.55	0.04	1.5563	-3.8866	-0.0107	0.0250	0.0270	0.2785	-2.4973	
26	8.96	0.06	1.6288	-4.0941	0.0057	0.0810	0.0260	0.2810	-2.5136	
27	9.36	0.0	1.7183	-4.2783	-0.1135	0.0369	0.0270	0.2872	-2.4899	
28	9.79	-0.05	1.7760	-4.3891	-0.0158	0.0721	0.0220	0.2871	-2.4714	
29	10.17	0.02	1.8928	-4.5856	-0.1101	0.1571	0.0250	0.2920	-2.4248	
30	10.59	-0.05	2.0076	-4.8044	-0.0605	0.1287	0.0290	0.2923	-2.3931	
31	10.95	0.0	2.0222	-4.8439	-0.1032	0.0285	0.0210	0.3068	-2.3953	
32	11.34	-0.05	2.1115	-5.0609	0.0355	0.0723	0.0220	0.2913	-2.3968	
33	11.68	0.0	2.1875	-5.2102	-0.0042	0.0939	0.0190	0.2848	-2.3818	
34	12.06	0.01	2.2725	-5.4082	0.0140	0.0644	0.0220	0.2850	-2.3798	
35	12.42	0.0	2.3655	-5.5754	0.0091	0.0273	0.0200	0.2884	-2.3570	
36	12.78	-0.02	2.4461	-5.7082	-0.0140	0.0846	0.0200	0.2825	-2.3336	
37	13.13	-0.01	2.5040	-5.8433	-0.0356	0.2228	0.0290	0.2725	-2.3336	
38	13.49	-0.02	2.6097	-6.0442	-0.1444	0.3101	0.0200	0.2744	-2.3161	
39	13.86	-0.01	2.6783	-6.1574	-0.0684	0.1787	0.0190	0.2726	-2.2989	
40	14.21	0.02	2.7745	-6.3190	0.0111	0.2344	0.0170	0.2772	-2.2775	
41	14.58	0.01	2.8507	-6.5047	-0.0269	0.2710	0.0180	0.2756	-2.2818	
42	14.90	-0.03	2.9179	-6.6058	-0.0433	0.2066	0.0180	0.2825	-2.2639	
43	15.27	-0.02	2.9962	-6.7254	-0.0463	0.1108	0.0050	0.2842	-2.2446	
44	15.60	-0.03	3.0791	-6.8214	-0.1347	0.2080	0.0120	0.2871	-2.2154	
45	15.91	0.0	3.1447	-6.9062	0.0527	0.2452	0.0060	0.2974	-2.1962	
46	16.26	-0.01	3.2398	-6.9714	-0.0538	0.3443	0.0150	0.2896	-2.1518	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	18	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.59	-0.02	3.2939	-7.0611	-0.0468	0.2125	-0.0080	0.2882	-2.1437	
48	16.42	0.01	3.4074	-7.2010	-0.0173	0.2912	0.0030	0.2820	-2.1134	
49	17.24	-0.02	3.4492	-7.2936	-0.0827	0.2937	0.0060	0.2797	-2.1146	
50	17.57	-0.07	3.5269	-7.4414	0.0024	0.0876	0.0030	0.2737	-2.1099	
51	17.89	-0.03	3.6051	-7.5149	-0.0640	0.1836	-0.0010	0.2741	-2.0845	
52	18.23	-0.03	3.6883	-7.6483	-0.0136	0.3850	-0.0010	0.2595	-2.0737	
53	18.56	0.0	3.7754	-7.7988	-0.0266	0.2422	-0.0010	0.2535	-2.0635	
54	18.88	-0.04	3.8731	-7.9500	-0.1495	0.3623	0.0120	0.2410	-2.0526	
55	19.22	-0.02	3.9591	-7.9864	-0.0165	0.3461	0.0010	0.2475	-2.0172	
56	19.53	-0.05	4.0519	-8.1213	-0.0852	0.0763	-0.0070	0.2327	-2.0043	
57	19.87	-0.01	4.1205	-8.2873	-0.0130	0.3202	-0.0030	0.2248	-2.0113	
58	20.20	-0.03	4.1777	-8.3114	-0.1604	0.3905	-0.0050	0.2220	-1.9895	
59	20.55	-0.04	4.3148	-8.4694	-0.0685	0.3419	0.0020	0.2183	-1.9629	
60	20.86	-0.03	4.3509	-8.5270	-0.2262	0.4896	0.0	0.1972	-1.9598	
61	21.21	-0.05	4.4527	-8.5145	-0.2327	0.6197	-0.0050	0.1950	-1.9122	
62	21.54	-0.02	4.5959	-8.6750	-0.0646	0.2827	-0.0020	0.1947	-1.8875	
63	21.84	-0.03	4.6465	-8.6968	-0.1549	0.6248	-0.0130	0.1915	-1.8717	
64	22.16	-0.01	4.7346	-8.7771	-0.1315	0.9450	-0.0200	0.1938	-1.8538	
65	22.45	-0.03	4.7222	-8.8088	-0.1216	0.2392	-0.0260	0.1925	-1.8054	
66	22.80	-0.03	4.8523	-8.7609	-0.1190	0.6115	-0.0290	0.1903	-1.8055	
67	23.11	-0.06	4.9227	-8.7355	0.0708	-0.2621	-0.0250	0.1837	-1.7745	
68	23.45	-0.06	5.0679	-8.5849	-0.1093	0.5439	-0.0390	0.1761	-1.6950	
69	23.77	-0.02	5.0509	-8.5801	-0.1123	0.6741	-0.0400	0.1677	-1.6987	
70	24.10	-0.04	5.1576	-8.6885	-0.0571	0.3339	-0.0300	0.1604	-1.6846	
71	24.41	-0.06	5.2791	-8.7096	0.0486	-0.0130	-0.0140	0.1558	-1.6498	
72	24.74	-0.06	5.4178	-8.7398	-0.1167	0.2443	-0.0200	0.1456	-1.6132	
73	25.04	-0.03	5.5254	-8.7374	-0.0416	0.3812	-0.0280	0.1332	-1.5813	
74	25.36	-0.04	5.6460	-8.6602	-0.1548	0.4417	-0.0280	0.1276	-1.5339	
75	25.64	-0.06	5.7099	-8.7367	0.0141	0.1642	-0.0180	0.1266	-1.5301	
76	25.98	-0.06	5.8704	-8.6475	-0.1055	0.5236	-0.0270	0.1221	-1.4731	
77	26.26	-0.05	5.9604	-8.6485	0.0621	0.1730	-0.0070	0.1190	-1.4510	
78	26.55	-0.06	6.0832	-8.6605	-0.0076	0.2676	-0.0040	0.1114	-1.4247	
79	26.88	-0.06	6.1730	-8.6472	-0.0330	0.3252	-0.0240	0.1013	-1.4008	
80	27.19	-0.06	6.2998	-8.6907	-0.0927	0.4867	-0.0230	0.0967	-1.3795	
81	27.53	-0.05	6.4424	-8.6433	-0.0370	0.3778	-0.0190	0.0891	-1.3416	
82	27.83	-0.06	6.5476	-8.5938	-0.1079	0.4790	-0.0250	0.0852	-1.3125	
83	28.13	-0.06	6.6324	-8.6885	0.0525	0.0085	0.0160	0.0603	-1.3100	
84	28.46	-0.06	6.7801	-8.6483	-0.0976	0.3636	-0.0100	0.0649	-1.2755	
85	28.77	-0.04	6.8365	-8.5832	0.0066	0.2877	-0.0040	0.0610	-1.2555	
86	29.09	-0.03	7.0318	-8.6846	0.2031	0.0547	0.0120	0.0487	-1.2351	
87	29.39	-0.03	7.1279	-8.6682	0.3070	-0.4317	0.0100	0.0358	-1.2161	
88	29.69	0.03	7.1747	-8.6087	0.4182	0.1944	-0.0100	0.0171	-1.1999	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	-2.73	0.07	-0.0350	-0.0002	0.0022	-0.0071	-0.0639	-0.1738	0.0020	-0.0768	-0.0115	0.4420
2	-2.58	0.07	-0.0301	0.0004	0.0025	-0.0133	-0.0821	-0.1623	0.0018	-0.0695	-0.0114	0.4281
3	-2.00	0.04	-0.0344	0.0002	0.0028	-0.0073	-0.0825	-0.1277	0.0015	-0.0551	-0.0117	0.4319
4	-1.37	0.05	-0.0247	-0.0001	0.0054	0.0061	-0.2174	-0.0841	0.0009	-0.0383	-0.0113	0.4557
5	-0.81	0.04	-0.0347	0.0001	0.0034	-0.0029	-0.1135	-0.0536	0.0004	-0.0240	-0.0084	0.4470
6	-0.27	0.04	-0.0266	0.0001	0.0030	-0.0038	-0.1142	-0.0179	0.0002	-0.0097	-0.0140	0.5399
7	0.24	0.04	-0.0256	-0.0000	0.0041	0.0026	-0.1540	0.0062	-0.0001	0.0024	-0.0161	0.3816
8	0.77	0.01	-0.0107	-0.0001	0.0091	0.0140	-0.8537	0.0343	-0.0002	0.0168	-0.0051	0.4274
9	1.25	0.05	-0.0248	-0.0003	0.0053	0.0121	-0.2152	0.0790	-0.0006	0.0317	-0.0076	0.4016
10	1.77	0.04	-0.0346	0.0	0.0031	0.0	-0.0888	0.1057	-0.0011	0.0451	-0.0104	0.4269
11	2.23	0.05	-0.0275	-0.0004	0.0043	0.0145	-0.1577	0.1377	-0.0008	0.0583	-0.0062	0.4233
12	2.71	0.03	-0.0254	-0.0007	0.0055	0.0276	-0.2180	0.1699	-0.0010	0.0715	-0.0059	0.4209
13	3.19	0.02	-0.0248	-0.0010	0.0068	0.0403	-0.2757	0.1943	-0.0014	0.0838	-0.0072	0.4315
14	3.66	0.01	-0.0252	-0.0005	0.0055	0.0218	-0.2184	0.2283	-0.0012	0.0960	-0.0055	0.4204
15	4.13	0.05	-0.0226	-0.0013	0.0060	0.0597	-0.2641	0.2609	-0.0012	0.1075	-0.0046	0.4122
16	4.57	0.03	-0.0191	-0.0017	0.0049	0.0899	-0.2584	0.2878	-0.0012	0.1159	-0.0042	0.4027
17	5.03	0.03	-0.0137	-0.0027	0.0166	0.2007	-0.7325	0.3213	-0.0013	0.1245	-0.0042	0.4029
18	5.46	-0.03	-0.0168	-0.0025	0.0071	0.1518	-0.4227	0.3560	-0.0014	0.1426	-0.0039	0.4006
19	5.92	0.01	-0.0184	-0.0021	0.0034	0.1168	-0.1831	0.3770	-0.0011	0.1524	-0.0030	0.4043
20	6.35	0.03	-0.0178	-0.0023	0.0042	0.1432	-0.2511	0.4130	-0.0012	0.1638	-0.0030	0.3966
21	6.81	0.05	-0.0232	-0.0019	0.0014	0.0840	-0.0806	0.4395	-0.0019	0.1739	-0.0043	0.3958
22	7.26	-0.01	-0.0253	-0.0024	0.0015	0.0948	-0.0581	0.4654	-0.0015	0.1834	-0.0033	0.3940
23	7.67	0.01	-0.0214	-0.0031	0.0033	0.1472	-0.1528	0.4896	-0.0015	0.1911	-0.0032	0.3904
24	8.12	0.0	-0.0245	-0.0041	0.0057	0.1644	-0.2341	0.5106	-0.0015	0.1994	-0.0029	0.3906
25	8.55	0.04	-0.0232	-0.0026	0.0031	0.1142	-0.1323	0.5456	-0.0018	0.2093	-0.0034	0.3836
26	8.96	0.06	-0.0323	-0.0023	0.0018	0.0789	-0.0569	0.5714	-0.0019	0.2174	-0.0034	0.3805
27	9.36	0.0	-0.0400	-0.0025	-0.0004	0.0637	0.0107	0.5956	-0.0015	0.2264	-0.0026	0.3801
28	9.79	-0.05	-0.0361	-0.0040	0.0030	0.1122	-0.0823	0.6109	-0.0020	0.2323	-0.0033	0.3802
29	10.17	0.02	-0.0387	-0.0025	0.0000	0.0654	-0.0001	0.6345	-0.0018	0.2404	-0.0029	0.3759
30	10.59	-0.05	-0.0407	-0.0037	0.0011	0.0909	-0.0280	0.6627	-0.0020	0.2478	-0.0030	0.3740
31	10.95	0.0	-0.0500	-0.0046	0.0001	0.0930	-0.0028	0.6740	-0.0018	0.2509	-0.0027	0.3722
32	11.34	-0.05	-0.0421	-0.0039	-0.0000	0.0526	0.0007	0.6993	-0.0018	0.2599	-0.0026	0.3717
33	11.68	0.0	-0.0520	-0.0029	-0.0036	0.0538	0.0698	0.7170	-0.0015	0.2644	-0.0022	0.3688
34	12.06	0.01	-0.0550	-0.0038	-0.0022	0.0700	0.0405	0.7408	-0.0016	0.2716	-0.0022	0.3667
35	12.42	0.0	-0.0505	-0.0042	-0.0012	0.0841	0.0243	0.7669	-0.0020	0.2786	-0.0027	0.3633
36	12.78	-0.02	-0.0564	-0.0031	-0.0040	0.0558	0.0708	0.7824	-0.0021	0.2834	-0.0027	0.3622
37	13.13	-0.01	-0.0609	-0.0050	-0.0013	0.0621	0.0212	0.7981	-0.0020	0.2871	-0.0025	0.3598
38	13.49	-0.02	-0.0645	-0.0040	-0.0034	0.0628	0.0526	0.8230	-0.0023	0.2950	-0.0028	0.3585
39	13.86	-0.01	-0.0679	-0.0045	-0.0047	0.0670	0.0696	0.8462	-0.0028	0.3007	-0.0033	0.3553
40	14.21	0.02	-0.0721	-0.0055	-0.0040	0.0763	0.0556	0.8631	-0.0032	0.3059	-0.0038	0.3544
41	14.58	0.01	-0.0748	-0.0065	-0.0052	0.0869	0.0698	0.8777	-0.0034	0.3099	-0.0039	0.3530
42	14.90	-0.03	-0.0698	-0.0058	-0.0050	0.0838	0.0710	0.9016	-0.0034	0.3145	-0.0038	0.3489
43	15.27	-0.02	-0.0779	-0.0055	-0.0103	0.0712	0.1317	0.9199	-0.0040	0.3195	-0.0043	0.3473
44	15.62	-0.03	-0.0746	-0.0038	-0.0131	0.0516	0.1750	0.9385	-0.0041	0.3233	-0.0044	0.3445
45	15.91	0.0	-0.0763	-0.0056	-0.0105	0.0740	0.1379	0.9476	-0.0045	0.3255	-0.0048	0.3434
46	16.26	-0.01	-0.0881	-0.0090	-0.0106	0.1027	0.1198	0.9536	-0.0047	0.3263	-0.0050	0.3421

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10 ⁻⁶	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	18	1.10	1.7	0.0	82	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.59	-0.02	-0.0909	-0.0047	-0.0180	0.0522	0.1979	0.9747	-0.0045	0.3313	-0.0046	0.3399
48	16.92	0.01	-0.0875	-0.0065	-0.0147	0.0748	0.1675	0.9903	-0.0046	0.3349	-0.0047	0.3382
49	17.24	-0.02	-0.0883	-0.0068	-0.0122	0.0770	0.1384	1.0007	-0.0048	0.3378	-0.0048	0.3375
50	17.57	-0.07	-0.0852	-0.0036	-0.0179	0.0428	0.2100	1.0268	-0.0046	0.3435	-0.0045	0.3346
51	17.89	-0.03	-0.0897	-0.0033	-0.0195	0.0368	0.2173	1.0410	-0.0047	0.3456	-0.0045	0.3320
52	18.23	-0.03	-0.1066	-0.0081	-0.0190	0.0764	0.1784	1.0437	-0.0044	0.3474	-0.0042	0.3328
53	18.56	0.0	-0.0889	-0.0027	-0.0183	0.0304	0.2061	1.0750	-0.0044	0.3548	-0.0041	0.3301
54	18.88	-0.04	-0.1063	-0.0121	-0.0093	0.1138	0.0877	1.0751	-0.0049	0.3538	-0.0046	0.3291
55	19.22	-0.02	-0.1102	-0.0078	-0.0196	0.0712	0.1780	1.0867	-0.0047	0.3568	-0.0043	0.3283
56	19.53	-0.05	-0.0837	-0.0026	-0.0212	0.0299	0.2385	1.1213	-0.0043	0.3649	-0.0038	0.3255
57	19.87	-0.01	-0.0995	-0.0052	-0.0195	0.0523	0.1955	1.1268	-0.0042	0.3679	-0.0037	0.3265
58	20.20	-0.03	-0.0980	-0.0035	-0.0211	0.0357	0.2148	1.1395	-0.0044	0.3702	-0.0039	0.3249
59	20.55	-0.04	-0.1226	-0.0095	-0.0170	0.0779	0.1391	1.1472	-0.0047	0.3722	-0.0041	0.3244
60	20.86	-0.03	-0.1150	-0.0054	-0.0217	0.0467	0.1879	1.1624	-0.0038	0.3755	-0.0033	0.3231
61	21.21	-0.05	-0.1187	-0.0048	-0.0225	0.0409	0.1934	1.1736	-0.0040	0.3766	-0.0034	0.3209
62	21.54	-0.02	-0.1176	-0.0074	-0.0222	0.0633	0.1887	1.1814	-0.0041	0.3791	-0.0035	0.3209
63	21.84	-0.03	-0.1515	-0.0086	-0.0299	0.0568	0.1972	1.1888	-0.0036	0.3828	-0.0030	0.3220
64	22.16	-0.01	-0.2170	-0.0178	-0.0436	0.0822	0.2010	1.1775	-0.0040	0.3779	-0.0034	0.3209
65	22.45	-0.03	-0.1266	-0.0015	-0.0327	0.0122	0.2582	1.2329	-0.0030	0.3931	-0.0025	0.3189
66	22.80	-0.03	-0.1512	-0.0027	-0.0365	0.0182	0.2413	1.2271	-0.0035	0.3913	-0.0029	0.3189
67	23.11	-0.06	-0.0563	0.0096	-0.0265	-0.1714	0.4700	1.2633	-0.0038	0.4006	-0.0030	0.3171
68	23.45	-0.06	-0.1589	-0.0002	-0.0391	0.0013	0.2464	1.2429	-0.0032	0.3954	-0.0026	0.3182
69	23.77	-0.02	-0.1511	-0.0020	-0.0394	0.0132	0.2611	1.2607	-0.0031	0.3974	-0.0025	0.3152
70	24.10	-0.04	-0.1158	0.0007	-0.0372	-0.0060	0.3211	1.2580	-0.0037	0.3982	-0.0030	0.3165
71	24.41	-0.06	-0.0405	0.0069	-0.0676	-0.1703	0.1875	1.2896	-0.0040	0.4056	-0.0031	0.3145
72	24.74	-0.06	-0.0815	0.0040	-0.0185	-0.0497	0.2265	1.2831	-0.0052	0.4031	-0.0041	0.3142
73	25.04	-0.03	-0.0695	0.0049	-0.0207	-0.0705	0.2972	1.2869	-0.0043	0.4057	-0.0034	0.3153
74	25.36	-0.04	-0.1770	-0.0025	-0.0468	0.0141	0.2643	1.2704	-0.0044	0.4002	-0.0035	0.3150
75	25.64	-0.06	-0.0826	0.0043	-0.0184	-0.0520	0.2230	1.2995	-0.0057	0.4063	-0.0044	0.3142
76	25.98	-0.06	-0.0828	0.0033	-0.0191	-0.0398	0.2306	1.3033	-0.0065	0.4085	-0.0050	0.3134
77	26.26	-0.05	-0.0176	0.0034	-0.0662	-0.1960	0.3543	1.3176	-0.0074	0.4128	-0.0056	0.3133
78	26.55	-0.06	-0.0765	0.0021	-0.0217	-0.0274	0.2835	1.3246	-0.0061	0.4119	-0.0046	0.3109
79	26.88	-0.06	-0.1145	0.0013	-0.0406	-0.0118	0.3550	1.3196	-0.0057	0.4092	-0.0044	0.3101
80	27.19	-0.06	-0.1162	0.0032	-0.0334	-0.0275	0.2919	1.3262	-0.0064	0.4122	-0.0048	0.3103
81	27.53	-0.05	-0.1489	0.0014	-0.0447	-0.0094	0.3003	1.3334	-0.0064	0.4136	-0.0048	0.3102
82	27.83	-0.06	-0.1404	0.0012	-0.0421	-0.0084	0.2997	1.3415	-0.0063	0.4139	-0.0047	0.3085
83	28.13	-0.06	-0.0051	-0.0002	0.0143	0.0490	-2.8040	1.3612	-0.0070	0.4205	-0.0052	0.3089
84	28.46	-0.06	-0.0684	0.0038	-0.0224	-0.0555	0.3274	1.3698	-0.0054	0.4216	-0.0040	0.3078
85	28.77	-0.04	-0.0805	0.0020	-0.0226	-0.0248	0.2810	1.3760	-0.0045	0.4232	-0.0033	0.3071
86	29.09	-0.03	-0.0198	0.0005	0.0065	-0.0252	-0.3284	1.3972	-0.0017	0.4266	-0.0012	0.3053
87	29.39	-0.03	-0.0398	0.0006	-0.0010	-0.0151	0.0242	1.3968	-0.0005	0.4257	-0.0004	0.3047
88	29.69	0.03	-0.0088	0.0012	0.0111	-0.1420	-1.2577	1.4101	0.0017	0.4256	0.0012	0.3018

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	18.1	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.73	0.07	-0.0044	0.0007	-0.0033	-0.1704	0.7423	-0.2435	0.0018	-0.0548	-0.0076	0.2252
2	-2.58	0.07	0.0024	0.0007	-0.0005	0.3124	-0.2085	-0.2346	0.0016	-0.0507	-0.0068	0.2160
3	-2.00	0.04	0.0022	0.0008	0.0004	0.1863	0.1969	-0.1959	0.0016	-0.0359	-0.0082	0.1831
4	-1.37	0.05	0.0063	0.0008	0.0009	0.1349	0.1427	-0.1520	0.0012	-0.0175	-0.0079	0.1155
5	-0.81	0.04	0.0036	0.0008	0.0003	0.2361	0.0832	-0.1136	0.0006	-0.0043	-0.0057	0.0374
6	-0.27	0.04	0.0063	0.0008	0.0009	0.1349	0.1427	-0.0820	0.0004	0.0113	-0.0055	-0.1375
7	0.24	0.04	0.0105	0.0007	0.0005	0.0714	0.0475	-0.0532	0.0002	0.0226	-0.0038	-0.4243
8	0.77	0.01	0.0114	0.0011	0.0027	0.0965	0.2367	-0.0249	0.0001	0.0360	-0.0033	-1.2052
9	1.25	0.05	0.0078	0.0008	-0.0002	0.1025	-0.0258	0.0155	-0.0000	0.0520	-0.0032	3.3526
10	1.77	0.04	0.0065	0.0005	0.0002	0.0846	0.0255	0.0493	-0.0007	0.0664	-0.0142	1.3474
11	2.23	0.05	0.0078	0.0007	-0.0002	0.0961	-0.0258	0.0438	-0.0007	0.0799	-0.0084	0.9537
12	2.71	0.03	0.0048	0.0005	0.0011	0.1875	0.2290	0.1166	-0.0009	0.0954	-0.0077	0.8186
13	3.19	0.02	0.0103	0.0007	0.0021	0.0728	0.2070	0.1462	-0.0011	0.1059	-0.0078	0.7145
14	3.66	0.01	0.0089	0.0008	0.0021	0.0899	0.2321	0.1747	-0.0009	0.1186	-0.0052	0.6790
15	4.13	0.05	0.0101	0.0009	0.0025	0.0540	0.2837	0.2092	-0.0009	0.1322	-0.0043	0.6320
16	4.57	0.03	0.0089	0.0008	0.0021	0.0455	0.2321	0.2328	-0.0011	0.1415	-0.0047	0.6081
17	5.03	0.03	0.0166	0.0011	0.0060	0.0663	0.3633	0.2644	-0.0008	0.1544	-0.0030	0.5840
18	5.46	-0.03	0.0032	0.0011	0.0027	0.3437	0.8332	0.3053	-0.0009	0.1688	-0.0031	0.5529
19	5.92	0.01	0.0032	0.0011	0.0028	0.3437	0.8645	0.3299	-0.0010	0.1793	-0.0030	0.5435
20	6.35	0.03	0.0154	0.0012	0.0047	0.0779	0.3072	0.3705	-0.0009	0.1923	-0.0024	0.5189
21	6.81	0.05	0.0153	0.0009	0.0064	0.0588	0.4182	0.3909	-0.0011	0.2021	-0.0028	0.5168
22	7.26	-0.01	0.0060	0.0008	0.0034	0.1416	0.5665	0.4190	-0.0013	0.2133	-0.0032	0.5091
23	7.67	0.01	0.0248	0.0009	0.0090	0.0363	0.3614	0.4507	-0.0012	0.2241	-0.0028	0.4971
24	8.12	0.0	0.0155	0.0008	0.0055	0.0548	0.3526	0.4722	-0.0017	0.2283	-0.0036	0.4835
25	8.55	0.04	0.0165	0.0012	0.0071	0.0757	0.4302	0.5022	-0.0019	0.2419	-0.0039	0.4817
26	8.96	0.06	0.0154	0.0011	0.0052	0.0747	0.3397	0.5298	-0.0023	0.2498	-0.0044	0.4715
27	9.36	0.0	0.0156	0.0009	0.0047	0.0577	0.3012	0.5608	-0.0020	0.2605	-0.0036	0.4644
28	9.79	-0.05	0.0183	0.0008	0.0061	0.0464	0.3332	0.5743	-0.0024	0.2646	-0.0043	0.4607
29	10.17	0.02	0.0196	0.0009	0.0059	0.0485	0.3026	0.6038	-0.0022	0.2754	-0.0036	0.4561
30	10.59	-0.05	0.0168	0.0010	0.0060	0.0595	0.3570	0.6302	-0.0023	0.2845	-0.0036	0.4514
31	10.95	0.0	0.0220	0.0010	0.0083	0.0477	0.3787	0.6480	-0.0024	0.2888	-0.0038	0.4457
32	11.34	-0.05	0.0248	0.0010	0.0085	0.0403	0.3413	0.6689	-0.0021	0.2956	-0.0032	0.4419
33	11.68	0.0	0.0221	0.0008	0.0093	0.0362	0.4192	0.6887	-0.0027	0.3022	-0.0039	0.4388
34	12.06	0.01	0.0166	0.0009	0.0075	0.0572	0.4537	0.7128	-0.0027	0.3103	-0.0038	0.4353
35	12.42	0.0	0.0234	0.0008	0.0096	0.0363	0.4101	0.7366	-0.0025	0.3163	-0.0035	0.4295
36	12.78	-0.02	0.0194	0.0008	0.0082	0.0412	0.4208	0.7513	-0.0030	0.3224	-0.0041	0.4242
37	13.13	-0.01	0.0193	0.0011	0.0076	0.0596	0.3954	0.7791	-0.0030	0.3303	-0.0039	0.4239
38	13.49	-0.02	0.0235	0.0008	0.0086	0.0362	0.3673	0.8025	-0.0035	0.3363	-0.0044	0.4191
39	13.86	-0.01	0.0276	0.0007	0.0095	0.0272	0.3586	0.8224	-0.0040	0.3433	-0.0049	0.4175
40	14.21	0.02	0.0248	0.0005	0.0110	0.0222	0.4421	0.8399	-0.0043	0.3496	-0.0052	0.4162
41	14.56	0.01	0.0324	0.0007	0.0124	0.0228	0.3758	0.8689	-0.0049	0.3574	-0.0056	0.4113
42	14.90	-0.03	0.0277	0.0005	0.0098	0.0199	0.3549	0.8830	-0.0049	0.3606	-0.0056	0.4086
43	15.27	-0.02	0.0315	0.0005	0.0128	0.0159	0.4062	0.8908	-0.0054	0.3632	-0.0061	0.4077
44	15.60	-0.03	0.0353	0.0005	0.0145	0.0142	0.4210	0.9063	-0.0056	0.3666	-0.0062	0.4045
45	15.91	0.0	0.0337	0.0007	0.0150	0.0223	0.4460	0.9283	-0.0058	0.3711	-0.0063	0.3998
46	16.26	-0.01	0.0338	0.0004	0.0150	0.0133	0.4427	0.9482	-0.0060	0.3773	-0.0064	0.3978

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	18	1.10	1.7	0.0	B2HOF12	0.0	0	0	0	0	FIXED	
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.59	-0.02	0.0419	0.0000	0.0184	0.0012	0.4382	0.9549	-0.0065	0.3782	-0.0069	0.3960
48	16.92	0.01	0.0458	0.0001	0.0203	0.0022	0.4424	0.9776	-0.0059	0.3843	-0.0060	0.3931
49	17.24	-0.02	0.0363	0.0006	0.0156	0.0179	0.4379	0.9927	-0.0060	0.3866	-0.0060	0.3894
50	17.57	-0.07	0.0417	0.0007	0.0162	0.0180	0.3884	1.0053	-0.0058	0.3906	-0.0058	0.3885
51	17.89	-0.03	0.0416	0.0005	0.0184	0.0132	0.4414	1.0115	-0.0061	0.3933	-0.0060	0.3889
52	18.23	-0.03	0.0377	0.0005	0.0164	0.0146	0.4340	1.0438	-0.0058	0.4009	-0.0056	0.3841
53	18.56	0.0	0.0319	0.0010	0.0161	0.0313	0.5056	1.0428	-0.0055	0.4011	-0.0053	0.3846
54	18.88	-0.04	0.0334	0.0011	0.0150	0.0329	0.4500	1.0890	-0.0046	0.4114	-0.0042	0.3777
55	19.22	-0.02	0.0387	0.0012	0.0170	0.0310	0.4392	1.0805	-0.0058	0.4118	-0.0054	0.3811
56	19.53	-0.05	0.0413	0.0010	0.0192	0.0242	0.4640	1.0979	-0.0045	0.4134	-0.0041	0.3766
57	19.87	-0.01	0.0348	0.0008	0.0163	0.0244	0.4683	1.1111	-0.0042	0.4189	-0.0038	0.3770
58	20.20	-0.03	0.0403	0.0004	0.0190	0.0099	0.4722	1.1184	-0.0046	0.4205	-0.0041	0.3759
59	20.55	-0.04	0.0345	0.0010	0.0183	0.0304	0.5303	1.1547	-0.0040	0.4287	-0.0035	0.3712
60	20.86	-0.03	0.0347	0.0012	0.0162	0.0346	0.4658	1.1606	-0.0032	0.4278	-0.0028	0.3686
61	21.21	-0.05	0.0350	0.0009	0.0161	0.0257	0.4589	1.1613	-0.0040	0.4308	-0.0035	0.3710
62	21.54	-0.02	0.0414	0.0003	0.0200	0.0229	0.4830	1.1857	-0.0033	0.4359	-0.0028	0.3676
63	21.84	-0.03	0.0414	0.0011	0.0196	0.0278	0.4588	1.2027	-0.0042	0.4411	-0.0035	0.3668
64	22.16	-0.01	0.0349	0.0007	0.0173	0.0215	0.4965	1.2345	-0.0042	0.4476	-0.0034	0.3626
65	22.45	-0.03	0.0423	0.0012	0.0222	0.0284	0.5247	1.2145	-0.0044	0.4427	-0.0037	0.3645
66	22.80	-0.03	0.0400	0.0008	0.0192	0.0212	0.4807	1.2101	-0.0055	0.4432	-0.0046	0.3663
67	23.11	-0.06	0.0536	0.0018	0.0257	0.0345	0.4787	1.2044	-0.0046	0.4390	-0.0039	0.3645
68	23.45	-0.06	0.0415	0.0018	0.0220	0.0434	0.5308	1.2253	-0.0050	0.4457	-0.0041	0.3637
69	23.77	-0.02	0.0456	0.0015	0.0229	0.0340	0.5021	1.2402	-0.0045	0.4491	-0.0037	0.3622
70	24.10	-0.04	0.0496	0.0014	0.0243	0.0292	0.4905	1.2389	-0.0045	0.4472	-0.0037	0.3610
71	24.41	-0.06	0.0411	0.0021	0.0281	0.0352	0.4592	1.2389	-0.0034	0.4458	-0.0028	0.3598
72	24.74	-0.06	0.0441	0.0014	0.0250	0.0329	0.5068	1.2396	-0.0051	0.4486	-0.0042	0.3619
73	25.04	-0.03	0.0471	0.0013	0.0237	0.0276	0.5031	1.2458	-0.0046	0.4504	-0.0037	0.3615
74	25.36	-0.04	0.0470	0.0013	0.0238	0.0277	0.5056	1.2715	-0.0039	0.4545	-0.0031	0.3574
75	25.64	-0.06	0.0443	0.0012	0.0251	0.0271	0.5657	1.2658	-0.0055	0.4547	-0.0043	0.3592
76	25.98	-0.06	0.0495	0.0013	0.0268	0.0243	0.5413	1.2720	-0.0056	0.4564	-0.0046	0.3588
77	26.28	-0.05	0.0530	0.0018	0.0288	0.0349	0.5426	1.2728	-0.0051	0.4553	-0.0040	0.3577
78	26.55	-0.06	0.0456	0.0014	0.0242	0.0318	0.5306	1.2980	-0.0049	0.4609	-0.0038	0.3551
79	26.86	-0.06	0.0547	0.0014	0.0290	0.0256	0.5307	1.3088	-0.0038	0.4619	-0.0029	0.3529
80	27.19	-0.06	0.0496	0.0012	0.0257	0.0252	0.5187	1.3118	-0.0058	0.4640	-0.0044	0.3537
81	27.53	-0.05	0.0478	0.0019	0.0255	0.0397	0.5341	1.3142	-0.0023	0.4623	-0.0017	0.3518
82	27.83	-0.06	0.0491	0.0018	0.0268	0.0367	0.5450	1.3220	-0.0027	0.4637	-0.0021	0.3508
83	28.13	-0.06	0.0490	0.0019	0.0282	0.0388	0.5761	1.3244	-0.0058	0.4678	-0.0044	0.3532
84	28.46	-0.06	0.0479	0.0016	0.0264	0.0334	0.5608	1.3384	-0.0039	0.4687	-0.0030	0.3502
85	28.77	-0.04	0.0442	0.0015	0.0250	0.0339	0.5662	1.3236	0.0042	0.4596	0.0032	0.3473
86	29.09	-0.03	0.0454	0.0016	0.0264	0.0363	0.5821	1.3303	0.0067	0.4575	0.0050	0.3439
87	29.39	-0.03	0.0535	0.0016	0.0282	0.0308	0.5276	1.3291	0.0084	0.4565	0.0064	0.3434
88	29.69	0.03	0.0535	0.0018	0.0282	0.0346	0.5276	1.3271	0.0094	0.4563	0.0071	0.3438

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MALM	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	19	0.85	1.7	0.0	0.2	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	2.99	5.00	0.4342	-0.8889	-0.7973	1.9381	0.0350	0.1880	-2.0470	
2	2.99	4.65	0.4123	-0.8826	-0.7270	1.7607	0.0310	0.1854	-2.1098	
3	2.99	3.89	0.4545	-0.9443	-0.6484	1.5587	0.0330	0.1811	-2.0549	
4	2.99	3.17	0.4569	-0.9507	-0.4746	1.2074	0.0300	0.1795	-2.0805	
5	2.99	2.39	0.4366	-0.9133	-0.4693	1.0210	0.0320	0.1832	-2.0915	
6	2.99	1.85	0.4592	-0.9899	-0.3017	0.6583	0.0330	0.1882	-2.1555	
7	2.98	0.88	0.4571	-1.0199	-0.1545	0.3812	0.0280	0.1898	-2.2311	
8	2.98	0.12	0.4750	-1.0500	-0.0675	0.1325	0.0300	0.1894	-2.2104	
9	2.98	-0.66	0.4558	-0.9981	0.0571	-0.1009	0.0310	0.1891	-2.1896	
10	2.98	-1.44	0.4307	-0.9766	0.1590	-0.3576	0.0310	0.1860	-2.2658	
11	2.99	-2.24	0.4455	-0.9647	0.3088	-0.6242	0.0300	0.1774	-2.1653	
12	2.99	-3.05	0.4506	-0.9259	0.3942	-0.9129	0.0350	0.1800	-2.0545	
13	2.99	-3.83	0.4312	-0.9027	0.5262	-1.2517	0.0300	0.1866	-2.0933	
14	2.99	-4.65	0.4452	-0.9053	0.6449	-1.5418	0.0320	0.1963	-2.0333	
15	2.99	-5.39	0.4345	-0.9053	0.8552	-2.0152	0.0300	0.1913	-2.0834	
16	2.99	-6.20	0.4643	-0.9690	0.9154	-2.2774	0.0280	0.1926	-2.0869	
17	2.99	-6.96	0.4335	-0.8819	1.2234	-2.8064	0.0230	0.1777	-2.0342	
18	2.99	-7.78	0.4240	-0.8546	1.3074	-3.2312	0.0180	0.1878	-2.0154	
19	3.00	-8.55	0.4474	-0.8224	1.5574	-3.6202	0.0170	0.1738	-1.8380	
20	3.00	-9.32	0.4138	-0.7634	1.6070	-3.9206	0.0160	0.1808	-1.8446	
21	3.00	-10.14	0.4286	-0.7671	1.7462	-4.2574	0.0170	0.1797	-1.7895	
22	3.00	-10.86	0.4144	-0.7432	1.9528	-4.6807	0.0170	0.1751	-1.7932	
23	3.00	-11.64	0.3809	-0.5992	2.1074	-5.1168	0.0150	0.1788	-1.5733	
24	3.00	-12.38	0.3826	-0.5186	2.2917	-5.4441	0.0120	0.1626	-1.4303	
25	3.01	-13.16	0.3252	-0.3652	2.4496	-5.8034	0.0120	0.1582	-1.1232	
26	3.01	-14.03	0.3338	-0.3463	2.5943	-6.1436	0.0290	0.1686	-1.0375	
27	3.01	-14.82	0.3726	-0.4376	2.7374	-6.1611	0.0720	0.1625	-1.1748	
28	3.01	-15.63	0.3543	-0.3870	2.8426	-6.4534	0.0870	0.1631	-1.0215	
29	3.01	-16.43	0.3446	-0.3034	3.0758	-6.8108	0.0950	0.1532	-0.8806	
30	3.01	-17.22	0.3970	-0.3268	3.2243	-7.0897	0.1190	0.1611	-0.9418	
31	3.02	-18.13	0.3532	-0.2854	3.3704	-7.2882	0.1460	0.1511	-0.8083	
32	3.02	-18.93	0.3672	-0.2960	3.5961	-7.6662	0.1640	0.1564	-0.8063	
33	3.02	-19.75	0.3631	-0.3113	3.7347	-7.7463	0.1720	0.1477	-0.8574	
34	3.02	-20.24	0.4303	-0.4815	3.6645	-7.5960	0.1940	0.1444	-1.1189	
35	3.01	-20.26	0.4098	-0.4368	3.6938	-7.3061	0.2340	0.1561	-1.0658	
36	3.02	-20.27	0.4654	-0.5536	3.6890	-7.5043	0.2350	0.1389	-1.1895	
37	3.02	-20.27	0.4167	-0.4185	3.7620	-7.4175	0.2010	0.1388	-1.0041	
38	3.01	-20.27	0.4347	-0.5247	3.6700	-7.4557	0.1980	0.1274	-1.2068	
39	3.02	-20.27	0.4109	-0.3564	3.8116	-7.8349	0.1790	0.1023	-0.8672	
40	3.02	-19.45	0.3678	-0.3169	3.7108	-7.5638	0.1710	0.1129	-0.8617	
41	3.02	-18.64	0.3806	-0.2988	3.6925	-7.6982	0.1510	0.0855	-0.7852	
42	3.01	-17.77	0.3592	-0.3618	3.5983	-7.6183	0.1540	0.0814	-1.0075	
43	3.01	-16.92	0.3711	-0.3485	3.3552	-7.2499	0.1360	0.0971	-0.9392	
44	3.01	-16.14	0.3629	-0.3440	3.1691	-6.9324	0.1140	0.0871	-0.9481	
45	3.01	-15.31	0.3498	-0.3517	2.9714	-6.5727	0.0840	0.0881	-1.0351	
46	3.01	-14.51	0.3354	-0.3775	2.8154	-6.3273	0.0740	0.0996	-1.1257	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		19.0-85		1.7		0.0	BZWF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	3.01	-13.65	0.3766	-0.4942	2.6888	-6.0331	0.0800	0.0978	-1.3124				
48	3.01	-12.85	0.3567	-0.4063	2.5144	-5.5978	0.0270	0.1107	-1.1393				
49	3.01	-12.13	0.3573	-0.4452	2.4596	-5.7541	0.0196	0.1072	-1.2461				
50	3.01	-11.58	0.3729	-0.4610	2.3145	-5.4950	0.0190	0.1078	-1.2364				
51	3.00	-10.78	0.3835	-0.5950	2.0974	-5.0681	0.0200	0.1194	-1.5512				
52	3.00	-10.04	0.4085	-0.6860	1.9280	-4.6260	0.0180	0.1133	-1.6741				

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	19	0.85	1.7	0.0	BZMDF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CM1	CB1	XC PF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	2.99	5.00	-0.3218	-0.0055	-0.0982	0.0171	0.3053	0.1844	0.0053	0.0199	0.0287	0.4335
2	2.99	4.65	-0.3064	-0.0047	-0.0925	0.0153	0.3019	0.1794	0.0054	0.0793	0.0301	0.4419
3	2.99	3.69	-0.2699	-0.0035	-0.0799	0.0132	0.2962	0.1790	0.0060	0.0806	0.0335	0.4505
4	2.99	3.17	-0.2231	-0.0022	-0.0668	0.0099	0.2996	0.1828	0.0055	0.0793	0.0304	0.4339
5	2.99	2.39	-0.1831	-0.0007	-0.0518	0.0038	0.2830	0.1771	0.0056	0.0753	0.0327	0.4253
6	2.99	1.65	-0.1348	-0.0001	-0.0316	0.0007	0.2345	0.1709	0.0051	0.0728	0.0301	0.4263
7	2.98	0.88	-0.1012	0.0001	-0.0165	-0.0015	0.1633	0.1681	0.0050	0.0701	0.0300	0.4171
8	2.98	0.12	-0.0618	-0.0001	-0.0010	0.0016	0.0161	0.1677	0.0052	0.0720	0.0310	0.4292
9	2.98	-0.66	-0.0210	-0.0001	0.0168	0.0071	-0.8001	0.1551	0.0045	0.0685	0.0293	0.4415
10	2.98	-1.44	0.0236	0.0001	0.0321	0.0042	1.3586	0.1421	0.0039	0.0656	0.0274	0.4620
11	2.99	-2.24	0.0523	0.0006	0.0456	0.0115	0.8724	0.1413	0.0037	0.0617	0.0262	0.4365
12	2.99	-3.05	0.1080	0.0022	0.0675	0.0204	0.6249	0.1299	0.0029	0.0602	0.0223	0.4633
13	2.99	-3.83	0.1436	0.0037	0.0803	0.0258	0.5595	0.1145	0.0011	0.0544	0.0100	0.4756
14	2.99	-4.65	0.1982	0.0051	0.0977	0.0257	0.4932	0.1145	-0.0003	0.0554	-0.0031	0.4843
15	2.99	-5.39	0.2458	0.0063	0.1152	0.0256	0.4687	0.1085	-0.0031	0.0540	-0.0290	0.4982
16	2.99	-6.20	0.2972	0.0072	0.1359	0.0242	0.4573	0.1071	-0.0062	0.0540	-0.0578	0.5097
17	2.99	-6.96	0.3571	0.0080	0.1565	0.0225	0.4393	0.0961	-0.0094	0.0525	-0.0978	0.5465
18	2.99	-7.78	0.4048	0.0093	0.1706	0.0230	0.4214	0.0885	-0.0123	0.0498	-0.1395	0.5626
19	3.00	-8.55	0.4549	0.0109	0.1864	0.0241	0.4097	0.0808	-0.0170	0.0495	-0.2106	0.6129
20	3.00	-9.32	0.4945	0.0129	0.1989	0.0262	0.4022	0.0630	-0.0215	0.0480	-0.3412	0.7618
21	3.00	-10.14	0.5263	0.0133	0.2125	0.0253	0.4037	0.0622	-0.0252	0.0465	-0.4059	0.7480
22	3.00	-10.86	0.5702	0.0149	0.2225	0.0262	0.3902	0.0475	-0.0289	0.0454	-0.6094	0.9564
23	3.00	-11.64	0.6205	0.0174	0.2370	0.0281	0.3820	0.0206	-0.0338	0.0389	-1.6429	1.8866
24	3.00	-12.38	0.6534	0.0205	0.2436	0.0314	0.3719	-0.0002	-0.0369	0.0343	184.4670	-171.6668
25	3.01	-13.16	0.7041	0.0226	0.2510	0.0321	0.3565	-0.0093	-0.0400	0.0308	4.3057	-3.3119
26	3.01	-14.03	0.7462	0.0261	0.2628	0.0350	0.3522	-0.0475	-0.0411	0.0177	0.8662	-0.3720
27	3.01	-14.82	0.7820	0.0276	0.2686	0.0353	0.3434	-0.0328	-0.0451	0.0236	1.3748	-0.7186
28	3.01	-15.63	0.8278	0.0299	0.2756	0.0362	0.3329	-0.0573	-0.0449	0.0110	0.7635	-0.1921
29	3.01	-16.43	0.8659	0.0313	0.2847	0.0361	0.3286	-0.0705	-0.0453	0.0082	0.6424	-0.1164
30	3.01	-17.22	0.9187	0.0316	0.2980	0.0344	0.3244	-0.0865	-0.0457	0.0029	0.5282	-0.0333
31	3.02	-18.13	0.9541	0.0328	0.3123	0.0344	0.3273	-0.1026	-0.0468	-0.0010	0.4561	0.0096
32	3.02	-18.93	1.0023	0.0356	0.3220	0.0356	0.3212	-0.1257	-0.0414	-0.0160	0.3297	0.1272
33	3.02	-19.75	1.0121	0.0420	0.3145	0.0415	0.3107	-0.1241	-0.0320	-0.0283	0.2578	0.2285
34	3.02	-20.24	1.0136	0.0416	0.3196	0.0411	0.3153	-0.0955	-0.0318	-0.0116	0.3334	0.1217
35	3.01	-20.26	1.0076	0.0412	0.3191	0.0409	0.3166	-0.0884	-0.0362	-0.0034	0.4094	0.0380
36	3.02	-20.27	1.0253	0.0405	0.3209	0.0395	0.3129	-0.0803	-0.0338	-0.0029	0.4215	0.0356
37	3.02	-20.27	1.0141	0.0413	0.3215	0.0407	0.3170	-0.0441	-0.0322	-0.0123	0.3421	0.1302
38	3.01	-20.27	1.0144	0.0419	0.3187	0.0413	0.3142	-0.0790	-0.0302	-0.0114	0.3822	0.1446
39	3.02	-20.27	1.0346	0.0414	0.3250	0.0400	0.3141	-0.1095	-0.0293	-0.0224	0.2680	0.2044
40	3.02	-19.45	1.0008	0.0417	0.3175	0.0417	0.3172	-0.1050	-0.0354	-0.0156	0.3376	0.1485
41	3.02	-18.64	0.9689	0.0426	0.3089	0.0431	0.3124	-0.1355	-0.0315	-0.0344	0.2324	0.2579
42	3.01	-17.77	0.9909	0.0355	0.3206	0.0359	0.3235	-0.1145	-0.0374	-0.0173	0.3440	0.1516
43	3.01	-16.92	0.9523	0.0321	0.3116	0.0337	0.3272	-0.0880	-0.0448	-0.0017	0.5090	0.0196
44	3.01	-16.14	0.9065	0.0324	0.2954	0.0357	0.3258	-0.0879	-0.0424	-0.0035	0.4823	0.0397
45	3.01	-15.31	0.8451	0.0305	0.2808	0.0361	0.3323	-0.0580	-0.0460	0.0111	0.7930	-0.1909
46	3.01	-14.51	0.8130	0.0296	0.2727	0.0364	0.3354	-0.0409	-0.0466	0.0202	1.1392	-0.4932

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		19	0.85 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.01	-13.65	0.7789	0.0277	0.2069	0.0356	0.3427	-0.0357	-0.0431	0.0183	1.2085	-0.5127
48	3.01	-12.85	0.7363	0.0243	0.2577	0.0331	0.3501	-0.0197	-0.0408	0.0230	2.0707	-1.1693
49	3.01	-12.13	0.7018	0.0221	0.2537	0.0316	0.3616	-0.0133	-0.0389	0.0245	2.9281	-1.8197
50	3.01	-11.58	0.6619	0.0204	0.2437	0.0308	0.3683	0.0055	-0.0365	0.0320	-6.6352	5.8241
51	3.00	-10.76	0.6175	0.0180	0.2346	0.0291	0.3798	0.0166	-0.0342	0.0340	-1.8384	1.8278
52	3.00	-10.04	0.5703	0.0157	0.2203	0.0276	0.3863	0.0375	-0.0304	0.0399	-0.8119	1.0839

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.9	0.85	1.7	J-0	B2WUF12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	LNFX	CH3	CH3	XCPF3	YCPF3	GNF4	CH4	CB4	XCPF4	YCPF4
1	2.99	5.00	-0.3336	-0.0102	-0.1313	0.0306	0.3334	0.0352	0.0031	0.0841	-0.0028	2.3900
2	2.99	4.65	-0.3037	-0.0087	-0.1210	0.0286	0.3984	0.0367	0.0011	0.0835	0.0313	2.2760
3	2.99	3.89	-0.2706	-0.0071	-0.1081	0.0262	0.3997	0.0436	0.0025	0.0867	0.0573	1.9892
4	2.99	3.17	-0.2100	-0.0049	-0.0901	0.0233	0.4289	0.0506	0.0040	0.0881	0.0790	1.7423
5	2.99	2.39	-0.1583	-0.0030	-0.0715	0.0193	0.4507	0.0584	0.0046	0.0910	0.0788	1.5592
6	2.99	1.65	-0.1028	-0.0012	-0.0507	0.0122	0.4737	0.0605	0.0048	0.0913	0.0802	1.5101
7	2.98	0.88	-0.0471	-0.0002	-0.0272	0.0042	0.5774	0.0732	0.0052	0.0956	0.0710	1.3059
8	2.98	0.12	-0.0101	0.0007	-0.0123	-0.0742	1.2144	0.0827	0.0057	0.0960	0.0695	1.1615
9	2.98	-0.60	0.0437	0.0015	0.0071	0.0343	0.1616	0.0840	0.0053	0.0972	0.0631	1.1570
10	2.98	-1.44	0.0809	0.0029	0.0261	0.0365	0.3221	0.0731	0.0050	0.0954	0.0691	1.3059
11	2.99	-2.24	0.1268	0.0042	0.0456	0.0335	0.3600	0.0900	0.0059	0.0984	0.0661	1.0932
12	2.99	-3.05	0.1761	0.0058	0.0654	0.0332	0.3713	0.0790	0.0055	0.0975	0.0702	1.2345
13	2.99	-3.83	0.2422	0.0084	0.0912	0.0347	0.3766	0.0844	0.0055	0.0992	0.0657	1.1756
14	2.99	-4.65	0.2866	0.0100	0.1084	0.0350	0.3782	0.0865	0.0058	0.1008	0.0676	1.1656
15	2.99	-5.39	0.3478	0.0124	0.1286	0.0358	0.3697	0.0847	0.0058	0.1019	0.0691	1.2033
16	2.99	-6.20	0.4020	0.0149	0.1496	0.0372	0.3720	0.0856	0.0065	0.1021	0.0765	1.1930
17	2.99	-6.96	0.4760	0.0157	0.1751	0.0331	0.3679	0.0793	0.0058	0.1004	0.0731	1.2664
18	2.99	-7.78	0.5344	0.0171	0.1972	0.0320	0.3683	0.0808	0.0056	0.0995	0.0693	1.2317
19	3.00	-8.55	0.5861	0.0200	0.2155	0.0342	0.3677	0.0798	0.0062	0.0997	0.0777	1.2493
20	3.00	-9.32	0.6404	0.0236	0.2302	0.0348	0.3594	0.0691	0.0061	0.0967	0.0883	1.3990
21	3.00	-10.14	0.7023	0.0258	0.2471	0.0367	0.3519	0.0868	0.0062	0.1036	0.0720	1.1938
22	3.00	-10.86	0.7479	0.0286	0.2614	0.0382	0.3495	0.0870	0.0064	0.1047	0.0736	1.2033
23	3.00	-11.64	0.8158	0.0304	0.2796	0.0373	0.3428	0.0814	0.0061	0.1021	0.0749	1.2546
24	3.00	-12.38	0.8741	0.0320	0.2941	0.0367	0.3364	0.0752	0.0068	0.1003	0.0904	1.3345
25	3.01	-13.16	0.9140	0.0341	0.3055	0.0373	0.3342	0.0638	0.0061	0.0943	0.0964	1.4790
26	3.01	-14.03	0.9682	0.0374	0.3173	0.0386	0.3277	0.0680	0.0065	0.0984	0.0956	1.4479
27	3.01	-14.82	0.9220	0.0503	0.2915	0.0546	0.3162	0.0753	0.0066	0.0964	0.0883	1.2801
28	3.01	-15.63	0.9628	0.0484	0.2982	0.0503	0.3097	0.0663	0.0066	0.0969	0.1003	1.4614
29	3.01	-16.43	0.9977	0.0500	0.3035	0.0501	0.3042	0.0734	0.0065	0.0978	0.0892	1.3332
30	3.01	-17.22	1.0214	0.0532	0.3056	0.0521	0.2992	0.0719	0.0067	0.0966	0.0932	1.3443
31	3.02	-18.13	1.0275	0.0573	0.2993	0.0557	0.2913	0.0645	0.0064	0.0946	0.1000	1.4665
32	3.02	-18.93	1.0596	0.0553	0.3094	0.0522	0.2920	0.0683	0.0065	0.0955	0.0952	1.3991
33	3.02	-19.75	1.1048	0.0540	0.3150	0.0489	0.2852	0.0597	0.0067	0.0936	0.1130	1.5677
34	3.02	-20.24	0.9791	0.0664	0.2804	0.0474	0.2863	0.0769	0.0076	0.0969	0.0988	1.2604
35	3.01	-20.26	0.9552	0.0268	0.2710	0.0281	0.2837	0.0775	0.0066	0.0999	0.0851	1.2893
36	3.02	-20.27	0.9589	0.0230	0.2811	0.0240	0.2932	0.0750	0.0074	0.0956	0.0993	1.2745
37	3.02	-20.27	0.9633	0.0224	0.2863	0.0232	0.2972	0.0660	0.0072	0.0956	0.1098	1.4484
38	3.01	-20.27	0.9793	0.0216	0.2972	0.0221	0.3035	0.0710	0.0069	0.0989	0.0979	1.3938
39	3.02	-20.27	0.9991	0.0214	0.3152	0.0214	0.3155	0.0513	0.0069	0.0904	0.1345	1.7621
40	3.02	-19.45	0.9650	0.0233	0.3058	0.0242	0.3168	0.0588	0.0071	0.0917	0.1207	1.5594
41	3.02	-18.64	1.0320	0.0566	0.3285	0.0548	0.3183	0.0692	0.0070	0.0973	0.1011	1.4069
42	3.01	-17.77	0.9945	0.0569	0.3195	0.0572	0.3217	0.0626	0.0073	0.0954	0.1174	1.5249
43	3.01	-16.92	0.9655	0.0572	0.3130	0.0592	0.3242	0.0684	0.0063	0.0962	0.0921	1.4063
44	3.01	-16.14	0.9466	0.0533	0.3130	0.0563	0.3307	0.0636	0.0068	0.0959	0.1069	1.5077
45	3.01	-15.31	0.9242	0.0522	0.3114	0.0565	0.3369	0.0757	0.0064	0.0995	0.0845	1.3147
46	3.01	-14.51	0.8912	0.0519	0.3046	0.0583	0.3417	0.0597	0.0065	0.0972	0.1097	1.6280

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	19	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.01	-13.65	0.8433	0.0531	0.2966	0.0630	0.3517	0.0707	0.0067	0.0980	0.0947	1.3870
48	3.01	-12.85	0.8879	0.0386	0.3244	0.0435	0.3653	0.0781	0.0070	0.1020	0.0496	1.3063
49	3.01	-12.13	0.8448	0.0348	0.3152	0.0412	0.3731	0.0613	0.0065	0.0995	0.1060	1.6236
50	3.01	-11.58	0.8056	0.0342	0.3028	0.0425	0.3759	0.0773	0.0064	0.0994	0.0828	1.2866
51	3.00	-10.78	0.7544	0.0332	0.2875	0.0440	0.3811	0.0761	0.0069	0.1032	0.0913	1.3569
52	3.00	-10.04	0.6843	0.0310	0.2686	0.0454	0.3925	0.0744	0.0069	0.1027	0.0935	1.3830

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	20	0.85	1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	5.99	4.97	0.9478	-2.2118	-0.6449	1.6098	0.0270	0.1877	-2.3336		
2	5.98	4.58	0.9565	-2.2639	-0.7348	1.6546	0.0250	0.1834	-2.3670		
3	5.98	3.89	0.9432	-2.2103	-0.5902	1.4452	0.0240	0.1873	-2.3435		
4	5.98	3.13	0.9663	-2.3027	-0.4644	1.1062	0.0250	0.1873	-2.3830		
5	5.99	2.38	0.9706	-2.2507	-0.4228	0.8919	0.0230	0.1810	-2.3189		
6	5.98	1.59	0.9432	-2.2643	-0.2759	0.6332	0.0220	0.1848	-2.4007		
7	5.98	0.86	0.9914	-2.3718	-0.2121	0.3589	0.0260	0.1884	-2.3924		
8	5.98	0.09	0.9741	-2.3290	-0.0443	0.1040	0.0300	0.1929	-2.3916		
9	5.99	-0.66	0.9651	-2.2540	0.1005	-0.1652	0.0350	0.1873	-2.3356		
10	5.98	-1.48	0.9744	-2.3260	0.1691	-0.3547	0.0390	0.1875	-2.3872		
11	5.99	-2.27	0.9626	-2.2495	0.2646	-0.5624	0.0410	0.1809	-2.3369		
12	5.99	-3.10	0.9651	-2.2540	0.4253	-0.8920	0.0350	0.1852	-2.3356		
13	5.99	-3.89	0.9582	-2.1833	0.5509	-1.1712	0.0380	0.1779	-2.2786		
14	5.99	-4.70	0.9491	-2.1766	0.6826	-1.4746	0.0370	0.1865	-2.2934		
15	5.99	-5.40	0.9419	-2.1415	0.8076	-1.8295	0.0350	0.1875	-2.2737		
16	5.99	-6.24	0.9515	-2.1180	0.9361	-2.2604	0.0310	0.1846	-2.2260		
17	5.99	-7.01	0.9245	-2.0372	1.0861	-2.5873	0.0290	0.1902	-2.2036		
18	6.00	-7.77	0.9029	-1.8990	1.2789	-3.0043	0.0220	0.1773	-2.1032		
19	6.00	-8.59	0.9046	-1.9103	1.4100	-3.3558	0.0190	0.1755	-2.1118		
20	6.00	-9.34	0.8894	-1.8131	1.6289	-3.7532	0.0140	0.1713	-2.0386		
21	6.00	-10.17	0.8861	-1.7854	1.7267	-4.0801	0.0110	0.1676	-2.0150		
22	6.01	-10.87	0.8609	-1.6672	1.9256	-4.5117	0.0160	0.1672	-1.9366		
23	6.01	-11.65	0.8136	-1.4510	2.1262	-4.8915	0.0090	0.1598	-1.7834		
24	6.01	-12.43	0.8267	-1.4483	2.2703	-5.2641	0.0170	0.1590	-1.7520		
25	6.02	-14.04	0.8498	-1.3747	2.5413	-5.6485	0.0790	0.1651	-1.6177		
26	6.03	-14.85	0.7868	-1.1555	2.7364	-5.9487	0.0770	0.1602	-1.4686		
27	6.02	-15.67	0.7781	-1.1563	2.9039	-6.2812	0.1040	0.1600	-1.4861		
28	6.03	-16.47	0.7740	-0.9856	3.0082	-6.6072	0.1470	0.1560	-1.2734		
29	6.03	-17.31	0.7548	-1.0187	3.1851	-6.8008	0.1800	0.1551	-1.3497		
30	6.02	-18.17	0.8201	-1.2681	3.2157	-6.7737	0.2490	0.1753	-1.5463		
31	6.02	-19.04	0.8839	-1.5264	3.2669	-6.6194	0.3180	0.1977	-1.7269		
32	6.00	-19.77	0.9593	-1.9069	3.2877	-6.3515	0.3710	0.2267	-1.9879		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MALX	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	20	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YLPF1	CNF2	CH2	CB2	XCPF2	YLPF2
1	5.99	4.97	-0.2063	0.0036	-0.0828	-0.0157	0.3111	0.4058	0.0135	0.1553	0.0333	0.3027
2	5.98	4.98	-0.2613	0.0038	-0.0806	-0.0147	0.3083	0.4090	0.0134	0.1562	0.0329	0.3819
3	5.98	3.89	-0.2277	0.0051	-0.0703	-0.0224	0.3086	0.4107	0.0130	0.1579	0.0318	0.3843
4	5.98	3.13	-0.1882	0.0061	-0.0561	-0.0324	0.2981	0.4041	0.0132	0.1569	0.0327	0.3881
5	5.99	2.38	-0.1630	0.0061	-0.0449	-0.0377	0.2755	0.3933	0.0131	0.1518	0.0334	0.3858
6	5.98	1.59	-0.1312	0.0053	-0.0287	-0.0408	0.2189	0.3822	0.0121	0.1470	0.0316	0.3845
7	5.98	0.86	-0.1054	0.0027	-0.0169	-0.0256	0.1605	0.3726	0.0122	0.1451	0.0327	0.3893
8	5.98	0.09	-0.0571	-0.0008	0.0056	0.0149	-0.0976	0.3670	0.0116	0.1396	0.0316	0.3803
9	5.99	-0.66	-0.0263	-0.0040	0.0252	0.1521	-0.8835	0.3464	0.0108	0.1326	0.0313	0.3624
10	5.98	-1.48	-0.0022	-0.0063	0.0372	2.8631	-16.8340	0.3364	0.0101	0.1319	0.0300	0.3921
11	5.99	-2.27	0.0229	-0.0067	0.0529	-0.2947	2.3114	0.3176	0.0095	0.1244	0.0299	0.3918
12	5.99	-3.10	0.0581	-0.0064	0.0646	-0.1110	1.1129	0.3051	0.0085	0.1197	0.0280	0.3922
13	5.99	-3.89	0.0934	-0.0050	0.0764	-0.0535	0.8182	0.2876	0.0075	0.1144	0.0261	0.3979
14	5.99	-4.70	0.1370	-0.0037	0.0908	-0.0274	0.6631	0.2780	0.0055	0.1110	0.0200	0.3994
15	5.99	-5.40	0.1917	-0.0022	0.1082	-0.0117	0.5643	0.2693	0.0049	0.1066	0.0071	0.3967
16	5.99	-6.24	0.2282	-0.0017	0.1248	-0.0074	0.5471	0.2549	-0.0014	0.1038	-0.0057	0.4074
17	5.99	-7.01	0.2793	-0.0002	0.1426	-0.0009	0.5104	0.2376	-0.0058	0.0999	-0.0244	0.4203
18	6.00	-7.77	0.3304	0.0015	0.1551	0.0047	0.4694	0.2224	-0.0095	0.0950	-0.0429	0.4272
19	6.00	-8.59	0.3637	0.0034	0.1648	0.0095	0.4531	0.2084	-0.0133	0.0910	-0.0638	0.4369
20	6.00	-9.34	0.4006	0.0056	0.1752	0.0141	0.4373	0.1894	-0.0174	0.0870	-0.0921	0.4594
21	6.00	-10.17	0.4556	0.0080	0.1882	0.0177	0.4131	0.1770	-0.0217	0.0840	-0.1229	0.4745
22	6.01	-10.87	0.5021	0.0102	0.1994	0.0204	0.3971	0.1571	-0.0266	0.0783	-0.1696	0.4987
23	6.01	-11.65	0.5404	0.0134	0.2109	0.0249	0.3902	0.1404	-0.0305	0.0728	-0.2176	0.5184
24	6.01	-12.43	0.5699	0.0146	0.2190	0.0256	0.3843	0.1093	-0.0341	0.0678	-0.3124	0.6205
25	6.02	-14.04	0.6535	0.0180	0.2342	0.0275	0.3661	0.0695	-0.0419	0.0573	-0.6035	0.8253
26	6.03	-14.85	0.6913	0.0200	0.2459	0.0289	0.3558	0.0442	-0.0451	0.0485	-1.0202	1.0979
27	6.02	-15.67	0.7354	0.0211	0.2553	0.0288	0.3472	0.0222	-0.0490	0.0412	-2.2068	1.8557
28	6.03	-16.47	0.7742	0.0219	0.2697	0.0283	0.3483	-0.0323	-0.0527	0.0253	-1.6313	-0.7844
29	6.03	-17.31	0.8289	0.0244	0.2817	0.0294	0.3396	-0.0575	-0.0567	0.0167	0.9859	-0.2911
30	6.02	-18.17	0.8843	0.0249	0.2984	0.0281	0.3374	-0.0186	-0.0574	0.0279	3.0682	-1.5001
31	6.02	-19.04	0.9223	0.0234	0.3125	0.0254	0.3389	-0.0044	-0.0634	0.0370	14.4179	-8.4168
32	6.00	-19.77	0.9376	0.0174	0.3232	0.0186	0.3447	0.0595	-0.0628	0.0608	-1.0553	1.0223

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	20	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	5.99	4.97	-0.3692	-0.0078	-0.1165	0.0211	0.3156	0.1985	0.0065	0.1511	0.0327	0.7614
2	5.98	4.58	-0.3574	-0.0071	-0.1143	0.0200	0.3198	0.2012	0.0073	0.1512	0.0363	0.7517
3	5.98	3.89	-0.3364	-0.0057	-0.1037	0.0169	0.3083	0.2011	0.0086	0.1512	0.0428	0.7519
4	5.98	3.13	-0.2747	-0.0037	-0.0798	0.0135	0.2903	0.2238	0.0099	0.1588	0.0445	0.7099
5	5.99	2.38	-0.2191	-0.0021	-0.0617	0.0096	0.2816	0.2320	0.0109	0.1610	0.0472	0.6940
6	5.98	1.59	-0.1639	0.0	-0.0387	0.0	0.2362	0.2411	0.0113	0.1648	0.0471	0.6637
7	5.98	0.86	-0.1136	0.0010	-0.0175	-0.0092	0.1545	0.2610	0.0119	0.1737	0.0456	0.6658
8	5.98	0.09	-0.0618	0.0028	0.0022	-0.0401	-0.0357	0.2599	0.0124	0.1719	0.0477	0.6614
9	5.99	-0.66	-0.0085	0.0040	0.0212	-0.4764	-2.4903	0.2621	0.0128	0.1737	0.0488	0.6629
10	5.98	-1.48	0.0374	0.0050	0.0418	0.1337	1.1166	0.2764	0.0131	0.1786	0.0476	0.6461
11	5.99	-2.27	0.0847	0.0065	0.0625	0.0767	0.7429	0.2816	0.0130	0.1800	0.0463	0.6392
12	5.99	-3.10	0.1400	0.0085	0.0872	0.0611	0.6232	0.2876	0.0137	0.1832	0.0478	0.6370
13	5.99	-3.89	0.1891	0.0106	0.1057	0.0563	0.5590	0.2931	0.0140	0.1851	0.0477	0.6313
14	5.99	-4.70	0.2461	0.0124	0.1281	0.0504	0.5205	0.2959	0.0138	0.1881	0.0466	0.6356
15	5.99	-5.40	0.3032	0.0158	0.1486	0.0521	0.4902	0.2943	0.0139	0.1868	0.0474	0.6345
16	5.99	-6.24	0.3713	0.0172	0.1735	0.0464	0.4684	0.3001	0.0145	0.1841	0.0483	0.6267
17	5.99	-7.01	0.4383	0.0185	0.1963	0.0423	0.4480	0.2893	0.0143	0.1873	0.0496	0.6473
18	6.00	-7.77	0.4953	0.0199	0.2185	0.0402	0.4420	0.2866	0.0147	0.1822	0.0514	0.6356
19	6.00	-8.59	0.5601	0.0228	0.2376	0.0408	0.4243	0.2886	0.0150	0.1879	0.0519	0.6508
20	6.00	-9.34	0.6163	0.0260	0.2548	0.0422	0.4135	0.2945	0.0154	0.1860	0.0524	0.6316
21	6.00	-10.17	0.6625	0.0301	0.2713	0.0441	0.3975	0.2856	0.0154	0.1856	0.0541	0.6496
22	6.01	-10.87	0.7357	0.0333	0.2872	0.0452	0.3904	0.2885	0.0157	0.1844	0.0546	0.6392
23	6.01	-11.65	0.8019	0.0356	0.3054	0.0444	0.3808	0.2794	0.0148	0.1827	0.0531	0.6538
24	6.01	-12.43	0.8568	0.0373	0.3195	0.0435	0.3734	0.2883	0.0162	0.1871	0.0563	0.6487
25	6.02	-13.04	0.8766	0.0501	0.3033	0.0571	0.3460	0.2862	0.0162	0.1871	0.0567	0.6535
26	6.03	-14.85	0.9154	0.0495	0.3103	0.0541	0.3390	0.2855	0.0160	0.1850	0.0560	0.6480
27	6.02	-15.67	0.9601	0.0507	0.3188	0.0528	0.3321	0.2912	0.0162	0.1874	0.0556	0.6435
28	6.03	-16.47	0.9787	0.0541	0.3205	0.0553	0.3275	0.2860	0.0164	0.1837	0.0575	0.6422
29	6.03	-17.31	0.9706	0.0603	0.3080	0.0622	0.3174	0.2776	0.0165	0.1817	0.0596	0.6544
30	6.02	-18.17	0.8805	0.0223	0.2784	0.0253	0.3162	0.2840	0.0170	0.1841	0.0598	0.6482
31	6.02	-19.04	0.7129	0.0133	0.2447	0.0187	0.3433	0.2866	0.0162	0.1843	0.0561	0.6384
32	6.00	-19.77	0.2003	0.0260	0.2766	0.1298	1.3811	0.3076	0.0166	0.1926	0.0541	0.6260

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6	21	0.85	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.00	4.96	1.5094	-3.5450	-0.7087	1.5811	0.0240	0.1663	-2.3486	
2	8.99	4.51	1.4995	-3.5961	-0.6496	1.3764	0.0250	0.1677	-2.3982	
3	9.00	3.77	1.5166	-3.5930	-0.5786	1.2550	0.0200	0.1670	-2.3691	
4	8.99	3.05	1.5215	-3.6604	-0.4247	0.9626	0.0210	0.1707	-2.4061	
5	8.99	2.26	1.5187	-3.6550	-0.3249	0.6838	0.0210	0.1686	-2.4066	
6	8.99	1.66	1.5241	-3.7025	-0.2741	0.5767	0.0230	0.1654	-2.4293	
7	8.99	0.86	1.4972	-3.7129	-0.1511	0.3965	0.0260	0.1649	-2.4799	
8	8.99	0.11	1.5293	-3.6908	-0.0673	0.1772	0.0370	0.1681	-2.4134	
9	8.99	-0.65	1.5131	-3.6661	0.0208	-0.0391	0.0320	0.1610	-2.4229	
10	8.99	-1.46	1.5329	-3.7039	0.1977	-0.3137	0.0400	0.1616	-2.4162	
11	8.99	-2.26	1.5254	-3.7014	0.1432	-0.4574	0.0440	0.1658	-2.4265	
12	8.99	-3.08	1.5050	-3.6128	0.3217	-0.6653	0.0460	0.1620	-2.4005	
13	8.99	-3.85	1.5016	-3.6100	0.4942	-0.9749	0.0470	0.1639	-2.4041	
14	9.00	-4.67	1.4817	-3.5342	0.5847	-1.2676	0.0490	0.1608	-2.3852	
15	9.00	-5.36	1.4876	-3.4325	0.8061	-1.5905	0.0440	0.1542	-2.3074	
16	9.00	-6.20	1.4715	-3.4199	0.9520	-1.9937	0.0410	0.1614	-2.3241	
17	9.00	-6.96	1.4536	-3.3689	1.0773	-2.4040	0.0370	0.1636	-2.3176	
18	9.01	-7.75	1.4600	-3.3128	1.2895	-2.8302	0.0320	0.1557	-2.2691	
19	9.01	-8.57	1.4454	-3.2124	1.4431	-3.2112	0.0300	0.1600	-2.2225	
20	9.01	-9.32	1.4383	-3.1395	1.5636	-3.5219	0.0290	0.1527	-2.1828	
21	9.02	-10.14	1.4267	-3.0593	1.7206	-3.8916	0.0360	0.1525	-2.1443	
22	9.02	-10.86	1.3873	-2.9081	1.9394	-4.2760	0.0350	0.1532	-2.0962	
23	9.02	-11.65	1.3556	-2.7668	2.0298	-4.6025	0.0300	0.1414	-2.0409	
24	9.03	-12.39	1.3315	-2.5970	2.2317	-5.0061	0.0390	0.1342	-1.9504	
25	9.03	-13.15	1.3710	-2.7153	2.3997	-5.0883	0.0620	0.1343	-1.9805	
26	9.03	-14.01	1.3615	-2.6390	2.5715	-5.3908	0.0930	0.1353	-1.9383	
27	9.04	-14.83	1.3219	-2.4726	2.6114	-5.6626	0.1070	0.1517	-1.8705	
28	9.04	-15.63	1.3417	-2.3583	2.8284	-5.9355	0.1080	0.1311	-1.7577	
29	9.05	-16.42	1.3428	-2.3499	3.0213	-6.1976	0.1470	0.1320	-1.7500	
30	9.05	-17.27	1.3454	-2.3055	3.1286	-6.1450	0.2150	0.1603	-1.7136	
31	9.05	-18.10	1.3960	-2.4814	3.1179	-5.8619	0.3210	0.1890	-1.7775	
32	9.05	-18.99	1.4179	-2.5090	3.3080	-6.1440	0.3630	0.2020	-1.7695	
33	9.04	-19.73	1.4543	-2.7049	3.4248	-6.2505	0.4119	0.2134	-1.8600	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION		
6	21	0.85	1.7	0.0	0.2WUF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	9.00	4.96	-0.1969	0.0182	-0.0727	-0.0924	0.3693	0.6189	0.0206	0.2368	0.0333	0.3826
2	8.99	4.51	-0.1903	0.0182	-0.0695	-0.0956	0.3653	0.6163	0.0208	0.2359	0.0338	0.3827
3	9.00	3.77	-0.1674	0.0186	-0.0607	-0.1111	0.3625	0.6048	0.0213	0.2326	0.0353	0.3846
4	8.99	3.05	-0.1299	0.0190	-0.0476	-0.1466	0.3679	0.5936	0.0196	0.2297	0.0334	0.3869
5	8.99	2.26	-0.1219	0.0162	-0.0401	-0.1333	0.3591	0.5743	0.0194	0.2233	0.0339	0.3888
6	8.99	1.66	-0.0969	0.0115	-0.0256	-0.1198	0.2658	0.5658	0.0188	0.2192	0.0333	0.3875
7	8.99	0.86	-0.0874	0.0046	-0.0121	-0.0526	0.1987	0.5438	0.0189	0.2137	0.0347	0.3930
8	8.99	0.11	-0.0646	-0.0010	0.0047	0.0155	-0.0724	0.5316	0.0178	0.2060	0.0335	0.3913
9	8.99	-0.65	-0.0589	-0.0068	0.0198	0.1154	-0.3357	0.5089	0.0168	0.2012	0.0331	0.3953
10	8.99	-1.46	-0.0357	-0.0138	0.0381	0.3865	-1.0673	0.4993	0.0158	0.1970	0.0316	0.3945
11	8.99	-2.26	-0.0137	-0.0179	0.0496	1.3063	-3.6230	0.4798	0.0145	0.1902	0.0302	0.3964
12	8.99	-3.08	-0.0002	-0.0190	0.0610	94.9831	-305.1667	0.4586	0.0135	0.1841	0.0294	0.4015
13	8.99	-3.85	0.0477	-0.0173	0.0733	-0.3626	1.5366	0.4363	0.0116	0.1759	0.0266	0.4031
14	9.00	-4.67	0.0735	-0.0171	0.0820	-0.2333	1.1155	0.4186	0.0105	0.1700	0.0252	0.4061
15	9.00	-5.36	0.1083	-0.0162	0.0953	-0.1496	0.8798	0.3995	0.0084	0.1635	0.0210	0.4093
16	9.00	-6.20	0.1525	-0.0147	0.1087	-0.0464	0.7129	0.3891	0.0045	0.1599	0.0116	0.4108
17	9.00	-6.96	0.1951	-0.0127	0.1237	-0.0653	0.6341	0.3720	0.0	0.1520	0.0	0.4085
18	9.01	-7.75	0.2417	-0.0119	0.1356	-0.0492	0.5612	0.3565	-0.0045	0.1467	-0.0126	0.4115
19	9.01	-8.57	0.2860	-0.0100	0.1505	-0.0349	0.5262	0.3271	-0.0089	0.1416	-0.0272	0.4328
20	9.01	-9.32	0.3155	-0.0090	0.1592	-0.0283	0.4981	0.3146	-0.0123	0.1363	-0.0391	0.4333
21	9.02	-10.14	0.3647	-0.0069	0.1741	-0.0189	0.4774	0.2926	-0.0167	0.1303	-0.0570	0.4453
22	9.02	-10.86	0.4142	-0.0044	0.1832	-0.0107	0.4423	0.2632	-0.0201	0.1251	-0.0764	0.4753
23	9.02	-11.65	0.4413	-0.0025	0.1913	-0.0057	0.4336	0.2438	-0.0215	0.1196	-0.0882	0.4907
24	9.03	-12.39	0.4966	0.0008	0.2043	0.0016	0.4113	0.2085	-0.0267	0.1102	-0.1283	0.5284
25	9.03	-13.15	0.5261	0.0012	0.2135	0.0023	0.4066	0.2207	-0.0313	0.1129	-0.1418	0.5117
26	9.03	-14.01	0.5797	0.0037	0.2264	0.0064	0.3905	0.1911	-0.0355	0.1074	-0.1857	0.5619
27	9.04	-14.83	0.6206	0.0066	0.2343	0.0106	0.3775	0.1596	-0.0381	0.0956	-0.2387	0.5989
28	9.04	-15.63	0.6499	0.0087	0.2405	0.0134	0.3701	0.1386	-0.0409	0.0901	-0.2954	0.6500
29	9.05	-16.42	0.6849	0.0114	0.2480	0.0166	0.3621	0.1000	-0.0434	0.0780	-0.4339	0.7802
30	9.05	-17.27	0.7319	0.0123	0.2608	0.0168	0.3563	0.0790	-0.0472	0.0736	-0.5980	0.9319
31	9.05	-18.10	0.7708	0.0097	0.2728	0.0126	0.3540	0.0908	-0.0475	0.0760	-0.5236	0.8376
32	9.05	-18.99	0.8177	0.0113	0.2862	0.0139	0.3500	0.0430	-0.0476	0.0567	-1.1079	1.3193
33	9.04	-19.73	0.8507	0.0097	0.3034	0.0115	0.3566	0.0501	-0.0461	0.0553	-0.9210	1.1037

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	21	0.85	1.7	0.0	BZWF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	Cd3	XC PF3	YC PF3	CNF4	CM4	CB4	XC PF4	YC PF4
1	9.00	4.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.3636	0.0121	0.2022	0.0333	0.5559
2	8.99	4.51	9.9999	9.9999	9.9999	9.9999	9.9999	0.3645	0.0131	0.2042	0.0354	0.5526
3	9.00	3.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.3738	0.0138	0.2080	0.0369	0.5563
4	8.99	3.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.3929	0.0151	0.2137	0.0384	0.5439
5	8.99	2.26	9.9999	9.9999	9.9999	9.9999	9.9999	0.4181	0.0154	0.2197	0.0369	0.5255
6	8.99	1.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.4249	0.0168	0.2238	0.0396	0.5266
7	8.99	0.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.4377	0.0181	0.2301	0.0413	0.5278
8	8.99	0.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.4617	0.0187	0.2360	0.0405	0.5112
9	8.99	-0.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.4677	0.0193	0.2390	0.0412	0.5111
10	8.99	-1.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.4911	0.0200	0.2456	0.0408	0.5002
11	8.99	-2.26	9.9999	9.9999	9.9999	9.9999	9.9999	0.5001	0.0204	0.2510	0.0409	0.5019
12	8.99	-3.08	9.9999	9.9999	9.9999	9.9999	9.9999	0.5145	0.0205	0.2551	0.0399	0.4959
13	8.99	-3.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.5200	0.0208	0.2588	0.0400	0.4976
14	9.00	-4.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.5270	0.0207	0.2624	0.0393	0.4979
15	9.00	-5.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.5306	0.0208	0.2626	0.0392	0.4949
16	9.00	-6.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.5348	0.0210	0.2655	0.0393	0.4964
17	9.00	-6.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.5446	0.0206	0.2664	0.0376	0.4891
18	9.01	-7.75	9.9999	9.9999	9.9999	9.9999	9.9999	0.5496	0.0211	0.2670	0.0391	0.4948
19	9.01	-8.57	9.9999	9.9999	9.9999	9.9999	9.9999	0.5415	0.0212	0.2685	0.0391	0.4959
20	9.01	-9.32	9.9999	9.9999	9.9999	9.9999	9.9999	0.5388	0.0223	0.2668	0.0414	0.4952
21	9.02	-10.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.5454	0.0229	0.2670	0.0420	0.4896
22	9.02	-10.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.5423	0.0219	0.2685	0.0404	0.4951
23	9.02	-11.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.5362	0.0226	0.2651	0.0422	0.4943
24	9.03	-12.39	9.9999	9.9999	9.9999	9.9999	9.9999	0.5478	0.0233	0.2650	0.0426	0.4838
25	9.03	-13.15	9.9999	9.9999	9.9999	9.9999	9.9999	0.5489	0.0229	0.2688	0.0417	0.4697
26	9.03	-14.01	9.9999	9.9999	9.9999	9.9999	9.9999	0.5537	0.0228	0.2688	0.0413	0.4854
27	9.04	-14.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.5479	0.0235	0.2663	0.0429	0.4860
28	9.04	-15.63	9.9999	9.9999	9.9999	9.9999	9.9999	0.5456	0.0231	0.2671	0.0423	0.4895
29	9.05	-16.42	9.9999	9.9999	9.9999	9.9999	9.9999	0.5611	0.0242	0.2706	0.0431	0.4822
30	9.05	-17.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.5478	0.0232	0.2697	0.0424	0.4924
31	9.05	-18.10	9.9999	9.9999	9.9999	9.9999	9.9999	0.5559	0.0235	0.2707	0.0423	0.4870
32	9.05	-18.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.5568	0.0245	0.2674	0.0441	0.4803
33	9.06	-19.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.5654	0.0239	0.2725	0.0423	0.4819

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	22	0.85	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	12.00	4.96	2.1629	-5.0908	-0.6772	1.1391	0.0400	0.1451	-2.3537	
2	12.00	4.60	2.1348	-5.0195	-0.5996	1.1004	0.0420	0.1392	-2.3512	
3	11.99	3.65	2.1159	-5.0700	-0.5752	1.0853	0.0400	0.1472	-2.3961	
4	11.99	3.14	2.1347	-5.1373	-0.4625	0.7501	0.0360	0.1467	-2.4009	
5	11.99	2.35	2.1467	-5.1251	-0.3752	0.6222	0.0290	0.1439	-2.3874	
6	11.99	1.60	2.1719	-5.1774	-0.2323	0.4342	0.0320	0.1489	-2.3838	
7	11.99	0.83	2.1728	-5.2187	-0.1424	0.3103	0.0370	0.1539	-2.4018	
8	11.99	0.10	2.1268	-5.1633	-0.0155	0.1297	0.0290	0.1459	-2.4277	
9	12.00	-0.71	2.1501	-5.1219	0.0625	0.0239	0.0380	0.1471	-2.3821	
10	11.99	-1.48	2.1222	-5.1108	0.1691	-0.1427	0.0430	0.1467	-2.4082	
11	11.99	-2.30	2.1437	-5.1229	0.1918	-0.2205	0.0410	0.1408	-2.3897	
12	12.00	-3.07	2.1205	-5.0125	0.3150	-0.4225	0.0470	0.1364	-2.3638	
13	12.00	-3.88	2.1000	-4.9828	0.3927	-0.6928	0.0530	0.1409	-2.3727	
14	12.00	-4.68	2.1073	-4.9570	0.5882	-0.9815	0.0480	0.1374	-2.3523	
15	12.00	-5.40	2.0772	-4.9029	0.7400	-1.2730	0.0300	0.1376	-2.3603	
16	12.01	-6.22	2.0790	-4.7744	0.8634	-1.6607	0.0270	0.1339	-2.2965	
17	12.01	-6.96	2.0735	-4.6587	1.0422	-2.0674	0.0160	0.1272	-2.2468	
18	12.02	-7.81	2.0419	-4.5085	1.2085	-2.4509	0.0080	0.1259	-2.2080	
19	12.01	-8.59	2.0355	-4.5355	1.3543	-2.8259	0.0120	0.1333	-2.2301	
20	12.02	-9.38	2.0224	-4.4012	1.5644	-3.2750	0.0170	0.1198	-2.1762	
21	12.02	-10.17	2.0219	-4.3715	1.7252	-3.6491	0.0170	0.1339	-2.1620	
22	12.03	-10.87	2.0209	-4.2381	1.8634	-3.9295	0.0140	0.1280	-2.0971	
23	12.03	-11.68	1.9537	-4.0101	2.0597	-4.4174	0.0110	0.1229	-2.0525	
24	12.04	-12.42	1.9576	-3.9775	2.2339	-4.6563	0.0280	0.1203	-2.0318	
25	12.04	-13.22	1.9527	-3.8987	2.3294	-4.7040	0.0700	0.1279	-1.9965	
26	12.04	-14.06	1.9937	-3.9001	2.5192	-4.9806	0.0980	0.1156	-1.9562	
27	12.04	-14.87	1.9021	-3.5917	2.7593	-5.3879	0.1000	0.1061	-1.8884	
28	12.05	-15.68	1.8972	-3.5109	2.8342	-5.6827	0.1210	0.1046	-1.8506	
29	12.04	-16.52	1.9265	-3.6330	2.9177	-5.8006	0.1620	0.1110	-1.8858	
30	12.04	-17.33	2.0045	-3.9322	2.9553	-5.4683	0.2880	0.1553	-1.9617	
31	12.04	-18.23	1.9660	-3.8393	3.1500	-5.9168	0.3160	0.1475	-1.9528	
32	12.04	-19.06	1.9684	-3.7557	3.3169	-6.0014	0.3570	0.1781	-1.9079	
33	12.05	-19.86	2.0528	-3.8938	3.3364	-6.0007	0.4259	0.1464	-1.8968	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		22		0.85		1.7	U-0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	12.00	4.96	-0.0932	0.0344	-0.0461	-0.3690	0.4952	0.8317	0.0286	0.2982	0.0344	0.3586		
2	12.00	4.00	-0.0868	0.0344	-0.0451	-0.3962	0.5199	0.8190	0.0264	0.2948	0.0347	0.3600		
3	11.99	3.85	-0.0654	0.0351	-0.0364	-0.5374	0.5565	0.8141	0.0281	0.2941	0.0345	0.3613		
4	11.99	3.14	-0.0648	0.0325	-0.0333	-0.5022	0.5138	0.8034	0.0277	0.2887	0.0345	0.3594		
5	11.99	2.35	-0.0581	0.0270	-0.0249	-0.4655	0.4279	0.7812	0.0267	0.2842	0.0342	0.3638		
6	11.99	1.60	-0.0526	0.0186	-0.0150	-0.2979	0.2390	0.7677	0.0261	0.2786	0.0340	0.3629		
7	11.99	0.83	-0.0684	0.0065	-0.0021	-0.0957	0.0306	0.7417	0.0249	0.2713	0.0336	0.3658		
8	11.99	0.10	-0.0774	-0.0024	0.0090	0.0316	-0.1164	0.7164	0.0248	0.2628	0.0347	0.3669		
9	12.00	-0.71	-0.0827	-0.0121	0.0203	0.1469	-0.2460	0.6856	0.0235	0.2530	0.0343	0.3691		
10	11.99	-1.48	-0.0914	-0.0216	0.0339	0.2368	-0.3714	0.6628	0.0225	0.2448	0.0340	0.3694		
11	11.99	-2.30	-0.1019	-0.0297	0.0416	0.2919	-0.4087	0.6392	0.0226	0.2358	0.0354	0.3689		
12	12.00	-3.07	-0.0870	-0.0336	0.0553	0.3861	-0.6358	0.5993	0.0209	0.2248	0.0349	0.3751		
13	12.00	-3.88	-0.0533	-0.0339	0.0679	0.6359	-1.2747	0.5795	0.0191	0.2156	0.0329	0.3720		
14	12.00	-4.68	-0.0235	-0.0319	0.0759	1.3572	-3.2285	0.5626	0.0175	0.2097	0.0312	0.3727		
15	12.00	-5.40	-0.0032	-0.0302	0.0777	9.4514	-24.2917	0.5531	0.0163	0.2058	0.0296	0.3721		
16	12.01	-6.22	0.0419	-0.0272	0.0930	-0.6490	2.2210	0.5343	0.0133	0.2005	0.0249	0.3753		
17	12.01	-6.98	0.0851	-0.0257	0.1048	-0.3019	1.2322	0.5208	0.0094	0.1948	0.0180	0.3741		
18	12.02	-7.81	0.1275	-0.0237	0.1161	-0.1854	0.9105	0.5003	0.0048	0.1912	0.0096	0.3822		
19	12.01	-8.59	0.1633	-0.0225	0.1261	-0.1381	0.7645	0.4796	-0.0003	0.1855	-0.0007	0.3868		
20	12.02	-9.38	0.2145	-0.0220	0.1432	-0.1028	0.6679	0.4601	-0.0056	0.1808	-0.0123	0.3930		
21	12.02	-10.17	0.2613	-0.0215	0.1536	-0.0825	0.5881	0.4385	-0.0106	0.1749	-0.0238	0.3989		
22	12.03	-10.87	0.2942	-0.0204	0.1638	-0.0695	0.5568	0.4163	-0.0140	0.1705	-0.0337	0.4096		
23	12.03	-11.68	0.3415	-0.0193	0.1764	-0.0566	0.5165	0.3813	-0.0190	0.1635	-0.0499	0.4287		
24	12.04	-12.42	0.3832	-0.0178	0.1881	-0.0464	0.4908	0.3577	-0.0234	0.1582	-0.0655	0.4422		
25	12.04	-13.22	0.4320	-0.0156	0.1980	-0.0362	0.4584	0.3341	-0.0271	0.1504	-0.0812	0.4502		
26	12.04	-14.06	0.4647	-0.0140	0.2072	-0.0301	0.4460	0.3021	-0.0303	0.1425	-0.1004	0.4715		
27	12.04	-14.87	0.5152	-0.0121	0.2178	-0.0236	0.4227	0.2784	-0.0351	0.1369	-0.1260	0.4916		
28	12.05	-15.68	0.5539	-0.0108	0.2298	-0.0196	0.4148	0.2578	-0.0404	0.1355	-0.1569	0.5256		
29	12.04	-16.52	0.6135	-0.0060	0.2451	-0.0099	0.3995	0.2478	-0.0434	0.1288	-0.1751	0.5201		
30	12.04	-17.33	0.6486	-0.0096	0.2588	-0.0149	0.3990	0.2635	-0.0470	0.1367	-0.1783	0.5188		
31	12.04	-18.23	0.7162	-0.0043	0.2720	-0.0061	0.3798	0.2407	-0.0477	0.1257	-0.1983	0.5222		
32	12.04	-19.06	0.7325	-0.0068	0.2802	-0.0093	0.3825	0.2010	-0.0489	0.1137	-0.2432	0.5656		
33	12.05	-19.86	0.7601	-0.0050	0.3035	-0.0066	0.3992	0.1787	-0.0466	0.1054	-0.2610	0.5901		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	LUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	22	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF 3	CH3	CB3	XCFF3	YCFF3	CNF4	CM4	CB4	XCFF4	YCFF4
1	12.00	4.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.5383	0.0198	0.2479	0.0369	0.4604
2	12.00	4.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.5339	0.0204	0.2475	0.0383	0.4636
3	11.99	3.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.5469	0.0213	0.2502	0.0389	0.4575
4	11.99	3.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.5661	0.0229	0.2577	0.0405	0.4553
5	11.99	2.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.5826	0.0235	0.2640	0.0404	0.4532
6	11.99	1.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.6182	0.0242	0.2766	0.0391	0.4474
7	11.99	0.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.6386	0.0243	0.2852	0.0380	0.4466
8	11.99	0.10	9.9999	9.9999	9.9999	9.9999	9.9999	0.6559	0.0238	0.2909	0.0393	0.4436
9	12.00	-0.71	9.9999	9.9999	9.9999	9.9999	9.9999	0.6780	0.0263	0.2977	0.0389	0.4391
10	11.99	-1.48	9.9999	9.9999	9.9999	9.9999	9.9999	0.6975	0.0277	0.3048	0.0397	0.4370
11	11.99	-2.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.7207	0.0283	0.3127	0.0393	0.4339
12	12.00	-3.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.7282	0.0287	0.3131	0.0395	0.4300
13	12.00	-3.88	9.9999	9.9999	9.9999	9.9999	9.9999	0.7469	0.0299	0.3187	0.0400	0.4267
14	12.00	-4.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.7551	0.0307	0.3240	0.0407	0.4291
15	12.00	-5.40	9.9999	9.9999	9.9999	9.9999	9.9999	0.7594	0.0303	0.3255	0.0400	0.4287
16	12.01	-6.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.7575	0.0302	0.3246	0.0399	0.4285
17	12.01	-6.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.7509	0.0305	0.3236	0.0406	0.4310
18	12.02	-7.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.7579	0.0305	0.3245	0.0403	0.4282
19	12.01	-8.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.7752	0.0313	0.3292	0.0404	0.4247
20	12.02	-9.38	9.9999	9.9999	9.9999	9.9999	9.9999	0.7649	0.0321	0.3277	0.0420	0.4285
21	12.02	-10.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.7788	0.0322	0.3312	0.0414	0.4253
22	12.03	-10.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.7835	0.0322	0.3315	0.0412	0.4248
23	12.03	-11.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.7780	0.0329	0.3295	0.0423	0.4236
24	12.04	-12.42	9.9999	9.9999	9.9999	9.9999	9.9999	0.7773	0.0324	0.3325	0.0417	0.4278
25	12.04	-13.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.7707	0.0319	0.3312	0.0414	0.4297
26	12.04	-14.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.7934	0.0340	0.3366	0.0429	0.4243
27	12.04	-14.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.7812	0.0342	0.3321	0.0438	0.4251
28	12.05	-15.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.7810	0.0332	0.3307	0.0425	0.4235
29	12.04	-16.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.7831	0.0350	0.3307	0.0447	0.4223
30	12.04	-17.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.7934	0.0335	0.3366	0.0422	0.4243
31	12.04	-18.23	9.9999	9.9999	9.9999	9.9999	9.9999	0.8000	0.0343	0.3380	0.0429	0.4226
32	12.04	-19.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.7955	0.0334	0.3375	0.0420	0.4243
33	12.05	-19.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.7965	0.0342	0.3367	0.0430	0.4227

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE FAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	23	0.85	1.7	0.0	B2NOF12	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	15.01	4.97	2.6838	-6.1591	-0.6153	1.1744	0.1540	0.1282	-2.2949		
2	15.01	4.95	2.6227	-6.0324	-0.7353	1.1774	0.1590	0.1115	-2.3001		
3	15.01	4.30	2.7339	-6.2352	-0.6837	0.9032	0.1460	0.1171	-2.2607		
4	15.01	3.58	2.6936	-6.1128	-0.5661	0.8136	0.1320	0.1156	-2.2693		
5	15.00	2.86	2.7376	-6.4274	-0.4367	0.5834	0.1020	0.1177	-2.3478		
6	15.00	2.05	2.8018	-6.5112	-0.2962	0.4406	0.0670	0.1219	-2.3239		
7	15.00	1.30	2.7904	-6.3053	-0.2010	0.2714	0.0300	0.1255	-2.3313		
8	15.01	0.54	2.7787	-6.4489	-0.1145	0.2463	0.0310	0.1239	-2.3208		
9	15.01	-0.21	2.7916	-6.4200	-0.0694	0.2201	0.0490	0.1253	-2.2997		
10	15.01	-1.02	2.7835	-6.4576	0.0688	0.0977	0.0330	0.1267	-2.3199		
11	15.02	-1.80	2.7234	-6.0405	0.1049	-0.0549	0.0020	0.1221	-2.2363		
12	15.02	-2.58	2.7179	-6.1168	0.2679	-0.2850	-0.0050	0.1230	-2.2505		
13	15.02	-3.44	2.6890	-6.0064	0.3444	-0.4841	-0.0300	0.1251	-2.2336		
14	15.02	-4.23	2.6801	-5.9429	0.4949	-0.7379	-0.0360	0.1182	-2.2174		
15	15.02	-4.98	2.6530	-5.8439	0.6661	-1.1535	-0.0450	0.1056	-2.2028		
16	15.02	-5.75	2.6361	-5.7922	0.8712	-1.4236	-0.0770	0.1078	-2.1973		
17	15.03	-6.57	2.6180	-5.7099	0.9452	-1.6262	-0.0930	0.1135	-2.1810		
18	15.03	-7.36	2.5925	-5.6412	1.2015	-2.1601	-0.1380	0.1146	-2.1760		
19	15.04	-8.13	2.6011	-5.4392	1.3556	-2.5584	-0.0790	0.1043	-2.0912		
20	15.04	-8.96	2.6281	-5.3451	1.5001	-2.9080	-0.0750	0.1127	-2.0529		
21	15.04	-9.71	2.5621	-5.3077	1.6457	-3.2058	-0.0700	0.1101	-2.0716		
22	15.05	-10.52	2.5672	-5.1918	1.7569	-3.6125	-0.0540	0.0961	-2.0224		
23	15.06	-11.27	2.5478	-5.0657	1.9513	-3.9467	-0.0650	0.0999	-1.9883		
24	15.05	-12.06	2.5220	-5.0286	2.2054	-4.3464	-0.0740	0.0967	-1.9939		
25	15.05	-12.82	2.4597	-4.9084	2.3545	-4.5541	-0.0620	0.0961	-1.9955		
26	15.06	-13.59	2.4036	-4.8658	2.4775	-4.7893	-0.0540	0.0934	-1.9412		
27	15.07	-14.46	2.4747	-4.8664	2.6071	-4.9497	0.0090	0.0876	-1.8837		
28	15.08	-15.28	2.4600	-4.4898	2.8261	-5.3344	0.0240	0.0869	-1.8251		
29	15.08	-16.12	2.4889	-4.5963	2.9021	-5.3178	0.1040	0.1061	-1.8467		
30	15.08	-16.89	2.5989	-4.8342	2.8778	-4.9678	0.2100	0.1127	-1.8601		
31	15.07	-17.82	2.5781	-4.8611	3.0344	-5.6817	0.2670	0.1043	-1.8856		
32	15.07	-18.67	2.5685	-4.8147	3.1647	-5.9324	0.2960	0.1027	-1.8745		
33	15.07	-19.49	2.5830	-4.8380	3.4076	-6.0454	0.3610	0.1004	-1.8730		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RAIU-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	23	0.85	1.7	0.0	0.82	WOF	12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF 1	CHI	CB1	XCPF1	YCPF1	CNF2	CHI2	CB2	XCPF2	YCPF2
1	15.01	4.97	0.0075	0.0419	0.0001	5.5857	0.0132	0.9128	0.0501	0.3053	0.0549	0.3344
2	15.01	4.95	0.0127	0.0356	0.0095	3.1215	0.7505	0.9057	0.0504	0.3031	0.0556	0.3346
3	15.01	4.30	0.0208	0.0389	0.0135	1.0699	0.6505	0.9313	0.0462	0.3144	0.0496	0.3376
4	15.01	3.58	0.0009	0.0380	0.0074	4.2745	0.8276	0.9111	0.0492	0.3026	0.0540	0.3321
5	15.00	2.86	0.0085	0.0309	0.0132	3.6346	1.5567	0.9481	0.0377	0.3245	0.0398	0.3423
6	15.00	2.05	-0.0333	0.0225	0.0075	-0.6771	-0.2253	0.9451	0.0374	0.3227	0.0396	0.3415
7	15.00	1.30	-0.0756	0.0163	0.0021	-0.2156	-0.0279	0.9240	0.0374	0.3170	0.0405	0.3431
8	15.01	0.54	-0.0991	0.0039	0.0068	-0.0393	-0.0664	0.8970	0.0361	0.3072	0.0405	0.3444
9	15.01	-0.21	-0.1209	-0.0126	0.0256	0.1046	-0.2119	0.8586	0.0342	0.2960	0.0399	0.3447
10	15.01	-1.02	-0.1636	-0.0228	0.0266	0.1393	-0.1625	0.8300	0.0341	0.2860	0.0411	0.3445
11	15.02	-1.80	-0.1782	-0.0355	0.0380	0.1992	-0.2134	0.7941	0.0321	0.2712	0.0405	0.3415
12	15.02	-2.58	-0.2005	-0.0437	0.0471	0.2182	-0.2349	0.7717	0.0301	0.2655	0.0390	0.3441
13	15.02	-3.44	-0.2025	-0.0471	0.0479	0.2328	-0.2367	0.7475	0.0234	0.2573	0.0380	0.3442
14	15.02	-4.23	-0.1786	-0.0470	0.0562	0.2631	-0.3144	0.7221	0.0258	0.2498	0.0358	0.3460
15	15.02	-4.98	-0.1333	-0.0471	0.0701	0.3537	-0.5257	0.7094	0.0238	0.2470	0.0336	0.3482
16	15.02	-5.75	-0.1264	-0.0418	0.0682	0.3306	-0.5394	0.7155	0.0226	0.2453	0.0316	0.3429
17	15.03	-6.57	-0.1097	-0.0358	0.0627	0.3263	-0.5720	0.6902	0.0216	0.2361	0.0316	0.3421
18	15.03	-7.36	-0.0720	-0.0337	0.0749	0.4660	-1.0404	0.6769	0.0188	0.2346	0.0278	0.3467
19	15.04	-8.13	0.0168	-0.0351	0.1065	-2.0889	6.3392	0.6362	0.0137	0.2257	0.0168	0.3547
20	15.05	-8.96	0.0567	-0.0356	0.1209	-0.6286	2.1322	0.6236	0.0044	0.2252	0.0071	0.3611
21	15.04	-9.71	0.0858	-0.0346	0.1353	-0.4038	1.5768	0.5982	-0.0007	0.2179	-0.0013	0.3643
22	15.05	-10.52	0.1543	-0.0326	0.1505	-0.2112	0.9755	0.5512	-0.0079	0.2039	-0.0143	0.3699
23	15.06	-11.27	0.1799	-0.0324	0.1575	-0.1803	0.8757	0.5352	-0.0118	0.2020	-0.0221	0.3775
24	15.05	-12.06	0.1958	-0.0321	0.1658	-0.1639	0.8470	0.5336	-0.0148	0.2038	-0.0277	0.3819
25	15.05	-12.82	0.2100	-0.0329	0.1627	-0.1566	0.7751	0.5453	-0.0163	0.2075	-0.0300	0.3805
26	15.06	-13.59	0.2417	-0.0318	0.1718	-0.1315	0.7110	0.5118	-0.0196	0.1987	-0.0364	0.3883
27	15.07	-14.46	0.3210	-0.0299	0.1504	-0.0933	0.5929	0.4544	-0.0278	0.1857	-0.0612	0.4087
28	15.08	-15.28	0.3776	-0.0291	0.2069	-0.0770	0.5479	0.4098	-0.0351	0.1756	-0.0857	0.4284
29	15.08	-16.12	0.4434	-0.0280	0.2271	-0.0631	0.5122	0.3725	-0.0426	0.1689	-0.1143	0.4535
30	15.08	-16.89	0.4880	-0.0247	0.2416	-0.0506	0.4951	0.3697	-0.0417	0.1668	-0.1129	0.4511
31	15.07	-17.82	0.6199	-0.0198	0.2705	-0.0320	0.4364	0.3363	-0.0483	0.1593	-0.1436	0.4735
32	15.07	-18.67	0.6443	-0.0195	0.2732	-0.0303	0.4240	0.3314	-0.0495	0.1681	-0.1408	0.4783
33	15.07	-19.49	0.6685	-0.0186	0.2820	-0.0278	0.4219	0.2994	-0.0468	0.1487	-0.1564	0.4965

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 23 0.85 1.7 PH1 CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 82NOV12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.01	4.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.7090	0.0290	0.2942	0.0409	0.4150
2	15.01	4.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.7064	0.0310	0.2898	0.0439	0.4102
3	15.01	4.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.7123	0.0316	0.2932	0.0444	0.4117
4	15.01	3.58	9.9999	9.9999	9.9999	9.9999	9.9999	0.7148	0.0323	0.2949	0.0452	0.4125
5	15.00	2.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.7395	0.0352	0.3013	0.0476	0.4074
6	15.00	2.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.7627	0.0344	0.3133	0.0452	0.4108
7	15.00	1.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.7805	0.0348	0.3172	0.0446	0.4065
8	15.01	0.54	9.9999	9.9999	9.9999	9.9999	9.9999	0.8011	0.0362	0.3277	0.0452	0.4091
9	15.01	-0.21	9.9999	9.9999	9.9999	9.9999	9.9999	0.8366	0.0369	0.3393	0.0441	0.4055
10	15.01	-1.02	9.9999	9.9999	9.9999	9.9999	9.9999	0.8549	0.0378	0.3461	0.0442	0.4048
11	15.02	-1.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.8180	0.0518	0.3206	0.0634	0.3920
12	15.02	-2.58	9.9999	9.9999	9.9999	9.9999	9.9999	0.8388	0.0505	0.3307	0.0602	0.3942
13	15.02	-3.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.8290	0.0483	0.3228	0.0582	0.3894
14	15.02	-4.23	9.9999	9.9999	9.9999	9.9999	9.9999	0.8312	0.0487	0.3244	0.0586	0.3902
15	15.02	-4.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.8384	0.0504	0.3259	0.0601	0.3887
16	15.02	-5.75	9.9999	9.9999	9.9999	9.9999	9.9999	0.8449	0.0496	0.3267	0.0587	0.3891
17	15.03	-6.57	9.9999	9.9999	9.9999	9.9999	9.9999	0.8595	0.0487	0.3314	0.0567	0.3856
18	15.03	-7.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.8629	0.0489	0.3347	0.0567	0.3879
19	15.04	-8.13	9.9999	9.9999	9.9999	9.9999	9.9999	0.8618	0.0489	0.3341	0.0567	0.3876
20	15.05	-8.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.8809	0.0489	0.3405	0.0555	0.3866
21	15.04	-9.71	9.9999	9.9999	9.9999	9.9999	9.9999	0.8836	0.0485	0.3392	0.0549	0.3839
22	15.05	-10.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.8801	0.0501	0.3399	0.0569	0.3862
23	15.06	-11.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.8943	0.0502	0.3429	0.0562	0.3834
24	15.05	-12.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.9012	0.0487	0.3453	0.0541	0.3831
25	15.05	-12.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.8923	0.0512	0.3456	0.0574	0.3873
26	15.06	-13.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.8946	0.0502	0.3461	0.0561	0.3869
27	15.07	-14.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.9145	0.0443	0.3499	0.0539	0.3826
28	15.08	-15.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.9265	0.0506	0.3534	0.0546	0.3815
29	15.08	-16.12	9.9999	9.9999	9.9999	9.9999	9.9999	0.9361	0.0523	0.3549	0.0558	0.3791
30	15.08	-16.89	9.9999	9.9999	9.9999	9.9999	9.9999	0.9433	0.0506	0.3566	0.0536	0.3780
31	15.07	-17.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.9547	0.0529	0.3629	0.0554	0.3801
32	15.07	-18.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.9707	0.0537	0.3688	0.0554	0.3800
33	15.07	-19.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.9733	0.0551	0.3692	0.0566	0.3793

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	24	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP		
1	18.03	4.94	3.2857	-7.1296	-0.7940	1.1436	0.2340	0.0917	-2.1699		
2	18.03	4.53	3.3519	-7.2203	-0.7231	0.9634	0.2060	0.0998	-2.1541		
3	18.02	3.77	3.3265	-7.2647	-0.7092	0.9479	0.2320	0.0909	-2.1839		
4	18.02	3.05	3.2909	-7.2199	-0.5037	0.6862	0.1840	0.0792	-2.1939		
5	18.02	2.26	3.3062	-7.3143	-0.3185	0.5584	0.1300	0.0769	-2.2123		
6	18.02	1.49	3.3128	-7.2775	-0.2019	0.2576	0.0640	0.0698	-2.1908		
7	18.03	0.72	3.3911	-7.2791	-0.0956	0.1368	0.0330	0.1046	-2.1466		
8	18.03	0.0	3.3644	-7.1838	-0.0164	0.1409	0.0010	0.1017	-2.1353		
9	18.02	-0.80	3.3545	-7.3709	-0.0644	0.1711	0.0070	0.0873	-2.1973		
10	18.02	-1.62	3.3497	-7.4142	0.1080	-0.1112	-0.0050	0.0950	-2.2134		
11	18.02	-2.41	3.3764	-7.4855	0.2641	-0.2387	-0.0850	0.0970	-2.2170		
12	18.02	-3.28	3.3206	-7.3024	0.3496	-0.3474	-0.1160	0.0922	-2.1992		
13	18.03	-4.07	3.3654	-7.2012	0.4784	-0.5198	-0.1250	0.1034	-2.1398		
14	18.04	-4.86	3.2455	-6.8710	0.5700	-0.7040	-0.1400	0.1163	-2.1145		
15	18.04	-5.60	3.1912	-6.7254	0.7826	-1.2886	-0.1590	0.1062	-2.1075		
16	18.03	-6.39	3.1463	-6.7215	0.9601	-1.6331	-0.2080	0.0996	-2.1363		
17	18.03	-7.23	3.1694	-6.7438	1.1949	-2.0629	-0.2750	0.0876	-2.1278		
18	18.04	-8.00	3.1397	-6.5773	1.4035	-2.3609	-0.2190	0.0750	-2.0949		
19	18.05	-8.81	3.1391	-6.3255	1.5861	-2.7265	-0.2120	0.0644	-2.0151		
20	18.07	-9.61	3.1362	-6.0254	1.6814	-3.2228	-0.1990	0.0984	-1.9213		
21	18.05	-10.40	3.0630	-6.1879	1.9732	-3.7584	-0.2510	0.0666	-2.0202		
22	18.09	-11.16	3.0714	-5.6198	1.9636	-3.8680	-0.2200	0.1062	-1.8297		
23	18.07	-11.97	2.9401	-5.5880	2.1934	-4.4386	-0.2850	0.0863	-1.9006		
24	18.08	-12.72	3.0093	-5.6328	2.4849	-4.6187	-0.2100	0.0878	-1.8718		
25	18.08	-13.56	2.9912	-5.4535	2.4466	-4.8920	-0.1610	0.0804	-1.8232		
26	18.10	-14.41	2.9150	-5.2379	2.7653	-5.2923	-0.1640	0.0731	-1.7969		
27	18.10	-15.27	2.9238	-5.2092	2.8356	-5.2027	-0.1220	0.0765	-1.7816		
28	18.11	-16.06	3.0321	-5.2388	2.9429	-5.0350	-0.0370	0.0911	-1.7278		
29	18.12	-16.83	3.0286	-5.1219	2.5635	-4.7358	0.0650	0.1038	-1.6912		
30	18.14	-17.75	3.1292	-5.0928	3.1512	-5.1556	0.1210	0.0917	-1.6275		
31	18.13	-18.63	3.1643	-5.3479	3.1057	-5.3348	0.2030	0.0837	-1.6901		
32	18.13	-19.47	3.1481	-5.2762	3.2559	-5.5101	0.2600	0.0781	-1.6760		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	24.0	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	GNF1	GM1	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	18.03	4.94	0.0542	0.0430	0.0076	0.7932	-0.1395	0.9960	0.0564	0.3055	0.0566	0.3067
2	18.03	4.53	0.0476	0.0483	-0.0049	1.0145	-0.1038	0.9963	0.0551	0.3052	0.0553	0.3063
3	18.02	3.77	0.0851	0.0335	0.0357	0.3536	0.4190	0.9934	0.0539	0.3114	0.0542	0.3135
4	18.02	3.05	0.0437	0.0172	0.0444	0.3935	1.0151	0.9999	0.0535	0.3136	0.0535	0.3136
5	18.02	2.26	-0.0084	0.0232	0.0131	-2.7674	-1.5596	0.9938	0.0543	0.3096	0.0546	0.3115
6	18.02	1.49	-0.0639	0.0247	-0.0173	-0.3873	0.2706	0.9859	0.0552	0.3052	0.0560	0.3096
7	18.03	0.72	-0.0815	0.0113	-0.0041	-0.1392	0.0498	0.9836	0.0509	0.3108	0.0517	0.3159
8	18.03	0.0	-0.1264	-0.0011	-0.0015	0.0687	0.0152	0.9816	0.0501	0.3068	0.0521	0.3191
9	18.02	-0.80	-0.1487	-0.0277	0.0208	0.1866	-0.1940	0.9586	0.0451	0.3101	0.0470	0.3235
10	18.02	-1.62	-0.1892	-0.0284	0.0111	0.1501	-0.0584	0.9557	0.0468	0.3065	0.0490	0.3207
11	18.02	-2.41	-0.2259	-0.0378	0.0127	0.1675	-0.0563	0.9533	0.0368	0.3140	0.0386	0.3293
12	18.02	-3.28	-0.2384	-0.0476	0.0170	0.1998	-0.0711	0.9373	0.0363	0.3085	0.0388	0.3292
13	18.03	-4.07	-0.2654	-0.0454	0.0107	0.1863	-0.0402	0.8986	0.0336	0.2982	0.0374	0.3319
14	18.04	-4.86	-0.2130	-0.0535	0.0333	0.2514	-0.1565	0.8438	0.0284	0.2843	0.0336	0.3369
15	18.04	-5.60	-0.1727	-0.0539	0.0519	0.3123	-0.3008	0.8561	0.0272	0.2868	0.0318	0.3350
16	18.03	-6.39	-0.1488	-0.0526	0.0595	0.3534	-0.4027	0.8507	0.0272	0.2848	0.0320	0.3347
17	18.03	-7.23	-0.2048	-0.0455	0.0285	0.2221	-0.1390	0.8654	0.0315	0.2857	0.0364	0.3301
18	18.04	-8.00	-0.1209	-0.0379	0.0474	0.3138	-0.3922	0.8094	0.0229	0.2724	0.0283	0.3365
19	18.05	-8.81	-0.0687	-0.0375	0.0675	0.5456	-0.9385	0.7695	0.0150	0.2635	0.0196	0.3424
20	18.07	-9.61	0.0425	-0.0436	0.1125	-1.0257	2.6485	0.7522	0.0061	0.2627	0.0082	0.3493
21	18.05	-10.40	-0.0008	-0.0385	0.0898	48.1789	-112.2917	0.7684	0.0102	0.2640	0.0133	0.3436
22	18.09	-11.16	0.1231	-0.0426	0.1364	-0.3464	1.1082	0.6727	-0.0088	0.2447	-0.0132	0.3638
23	18.07	-11.97	0.1149	-0.0437	0.1358	-0.3807	1.1818	0.7387	-0.0018	0.2595	-0.0024	0.3514
24	18.08	-12.72	0.1434	-0.0405	0.1452	-0.2824	1.0124	0.6817	-0.0144	0.2469	-0.0211	0.3623
25	18.08	-13.56	0.2347	-0.0452	0.1821	-0.1928	0.7759	0.6236	-0.0249	0.2297	-0.0399	0.3683
26	18.10	-14.41	0.2211	-0.0434	0.1691	-0.1963	0.7651	0.6262	-0.0229	0.2295	-0.0366	0.3664
27	18.10	-15.27	0.2675	-0.0411	0.1657	-0.1431	0.6597	0.5729	-0.0325	0.2209	-0.0568	0.3856
28	18.11	-16.06	0.2855	-0.0454	0.1918	-0.1591	0.6718	0.5876	-0.0374	0.2277	-0.0637	0.3875
29	18.12	-16.83	0.3654	-0.0460	0.2187	-0.1258	0.5983	0.5253	-0.0456	0.2143	-0.0868	0.4080
30	18.14	-17.75	0.4503	-0.0407	0.2367	-0.0903	0.5257	0.4310	-0.0474	0.1842	-0.1099	0.4274
31	18.13	-18.63	0.5786	-0.0337	0.2654	-0.0582	0.4595	0.3699	-0.0465	0.1673	-0.1258	0.4521
32	18.13	-19.47	0.6268	-0.0338	0.2787	-0.0539	0.4447	0.3582	-0.0491	0.1653	-0.1370	0.4613

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
9	24	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	18.03	4.94	9.9999	9.9999	9.9999	9.9999	9.9999	0.8628	0.0378	0.3422	0.0438	0.3966
2	18.03	4.53	9.9999	9.9999	9.9999	9.9999	9.9999	0.8526	0.0350	0.3398	0.0411	0.3985
3	18.02	3.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.8438	0.0408	0.3466	0.0461	0.3922
4	18.02	3.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.8747	0.0521	0.3349	0.0596	0.3828
5	18.02	2.26	9.9999	9.9999	9.9999	9.9999	9.9999	0.8828	0.0488	0.3414	0.0553	0.3867
6	18.02	1.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.8983	0.0457	0.3519	0.0509	0.3918
7	18.03	0.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.8908	0.0511	0.3421	0.0573	0.3841
8	18.03	0.0	9.9999	9.9999	9.9999	9.9999	9.9999	0.9054	0.0519	0.3432	0.0574	0.3790
9	18.02	-0.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.9331	0.0542	0.3504	0.0581	0.3755
10	18.02	-1.62	9.9999	9.9999	9.9999	9.9999	9.9999	0.9440	0.0545	0.3502	0.0578	0.3709
11	18.02	-2.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.9576	0.0547	0.3512	0.0572	0.3667
12	18.02	-3.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.9439	0.0578	0.3424	0.0612	0.3628
13	18.03	-4.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.9529	0.0565	0.3460	0.0593	0.3631
14	18.04	-4.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.8940	0.0537	0.3220	0.0600	0.3602
15	18.04	-5.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.8720	0.0284	0.3216	0.0326	0.3688
16	18.03	-6.39	9.9999	9.9999	9.9999	9.9999	9.9999	0.8670	0.0276	0.3167	0.0319	0.3653
17	18.03	-7.23	9.9999	9.9999	9.9999	9.9999	9.9999	0.9321	0.0610	0.3338	0.0654	0.3581
18	18.04	-8.00	9.9999	9.9999	9.9999	9.9999	9.9999	0.9556	0.0587	0.3423	0.0615	0.3582
19	18.05	-8.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.9596	0.0591	0.3414	0.0616	0.3557
20	18.07	-9.61	9.9999	9.9999	9.9999	9.9999	9.9999	0.8673	0.0248	0.3128	0.0286	0.3606
21	18.05	-10.40	9.9999	9.9999	9.9999	9.9999	9.9999	0.9412	0.0537	0.3361	0.0571	0.3571
22	18.09	-11.16	9.9999	9.9999	9.9999	9.9999	9.9999	0.7775	0.0166	0.2922	0.0216	0.3758
23	18.07	-11.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.5967	0.0250	0.2466	0.0420	0.4133
24	18.08	-12.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.6603	0.0329	0.2588	0.0499	0.3920
25	18.08	-13.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.4548	0.0234	0.2153	0.0515	0.4735
26	18.10	-14.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.4281	0.1415	0.1643	0.3305	0.3837
27	18.10	-15.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.3056	0.0798	0.1417	0.2603	0.4637
28	18.11	-16.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.5714	0.2289	0.1271	0.4006	0.2225
29	18.12	-16.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.4528	0.1479	0.1083	0.3266	0.2392
30	18.14	-17.75	9.9999	9.9999	9.9999	9.9999	9.9999	0.1816	0.0833	-0.0190	0.4589	-0.1046
31	18.13	-18.63	9.9999	9.9999	9.9999	9.9999	9.9999	0.0861	0.0837	-0.1367	0.9720	-1.5878
32	18.13	-19.47	9.9999	9.9999	9.9999	9.9999	9.9999	1.0349	0.0902	-0.3710	0.0871	-0.3585

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	25.085	1.7	0.0	B2WZFO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.80	0.01	-0.4231	-0.2245	0.0654	-0.0126	0.0030	0.1411	0.5305	
2	-2.68	0.02	-0.4245	-0.2155	0.1200	0.0900	0.0040	0.1443	0.5077	
3	-2.03	0.0	-0.2952	-0.1487	0.0181	0.0567	0.0040	0.1405	0.5038	
4	-1.41	0.01	-0.2121	-0.1060	0.0625	0.0055	0.0020	0.1435	0.5000	
5	-0.81	0.02	-0.1286	-0.0650	0.0916	0.1017	0.0330	0.1501	0.5051	
6	-0.27	0.0	-0.0162	0.0137	-0.0235	0.0279	0.0050	0.1498	-0.8444	
7	0.27	0.01	0.0609	0.0667	0.0927	0.0412	0.0010	0.1543	1.0959	
8	0.79	0.01	0.1481	0.1076	0.0535	0.0811	0.0010	0.1515	0.7269	
9	1.29	0.0	0.2322	0.1709	0.0011	0.0205	0.0050	0.1578	0.7361	
10	1.82	0.02	0.3003	0.2036	0.1587	0.0878	0.0060	0.1565	0.6779	
11	2.29	0.02	0.4012	0.2441	0.1348	0.1273	0.0070	0.1534	0.6085	
12	2.79	0.01	0.4560	0.2994	0.0803	0.0776	0.0100	0.1587	0.6566	
13	3.29	-0.01	0.5830	0.3586	-0.0287	-0.0358	0.0060	0.1539	0.6151	
14	3.79	0.02	0.6480	0.3866	0.0940	0.0924	0.0080	0.1537	0.5966	
15	4.27	0.01	0.7542	0.4319	0.0482	0.0585	0.0050	0.1542	0.5727	
16	4.74	0.01	0.8286	0.4688	0.0506	0.0092	0.0090	0.1573	0.5657	
17	5.19	0.02	0.9169	0.4871	0.1225	0.1519	0.0090	0.1556	0.5313	
18	5.66	0.01	1.0173	0.5126	0.0705	0.0203	0.0090	0.1593	0.5039	
19	6.11	0.0	1.0805	0.5451	0.0597	0.1064	0.0110	0.1601	0.5045	
20	6.56	-0.01	1.1890	0.5740	0.1626	0.1133	0.0080	0.1644	0.4828	
21	7.04	0.0	1.3039	0.6022	0.0210	0.0486	0.0110	0.1637	0.4618	
22	7.49	0.0	1.3765	0.6175	0.0975	0.0825	0.0110	0.1637	0.4486	
23	7.94	0.0	1.4645	0.6373	0.1086	0.0600	0.0110	0.1640	0.4352	
24	8.38	-0.01	1.5809	0.6614	0.0674	0.0956	0.0100	0.1610	0.4184	
25	8.85	-0.02	1.6509	0.6784	0.0239	0.0825	0.0120	0.1564	0.4109	
26	9.25	-0.02	1.7028	0.7187	0.0655	0.0473	0.0120	0.1557	0.4221	
27	9.68	-0.02	1.8186	0.7326	0.0352	0.0637	0.0130	0.1496	0.4028	
28	10.11	-0.03	1.9163	0.7397	0.0507	0.1040	0.0100	0.1508	0.3860	
29	10.52	-0.04	2.0069	0.7518	-0.0102	0.0733	0.0140	0.1453	0.3746	
30	10.92	-0.02	2.1060	0.7511	0.1340	0.0814	0.0120	0.1425	0.3566	
31	11.29	-0.02	2.1999	0.7536	0.1473	0.1298	0.0110	0.1378	0.3426	
32	11.70	-0.03	2.2971	0.7505	0.0689	0.1215	0.0150	0.1352	0.3267	
33	12.06	0.0	2.3945	0.7702	0.1061	0.0605	0.0170	0.1298	0.3216	
34	12.44	-0.01	2.4761	0.7789	0.0474	0.0226	0.0170	0.1267	0.3146	
35	12.81	-0.01	2.5737	0.7903	0.0476	0.0304	0.0170	0.1206	0.3071	
36	13.19	-0.02	2.6686	0.8094	0.0173	0.0618	0.0160	0.1200	0.3033	
37	13.53	-0.02	2.7312	0.7967	0.0109	0.0727	0.0160	0.1173	0.2917	
38	13.93	0.0	2.8514	0.7954	0.1075	0.0835	0.0150	0.1072	0.2789	
39	14.29	-0.02	2.9266	0.8321	-0.0194	0.0891	0.0170	0.1057	0.2843	
40	14.66	0.0	3.0093	0.8463	0.1060	0.1186	-0.0100	0.1045	0.2812	
41	15.01	-0.01	3.0683	0.8407	0.0492	0.1581	-0.0190	0.1083	0.2740	
42	15.35	-0.02	3.1110	0.8469	-0.0036	0.0990	0.0150	0.1079	0.2722	
43	15.71	-0.01	3.2115	0.8422	0.0119	0.1473	0.0140	0.1086	0.2623	
44	16.05	-0.01	3.2930	0.8111	0.0272	0.1949	0.0160	0.1047	0.2463	
45	16.40	-0.01	3.4487	0.7980	0.0363	0.1082	0.0080	0.1013	0.2314	
46	16.73	-0.03	3.5143	0.7832	-0.0653	0.0534	0.0100	0.1018	0.2229	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	25	0.85	1.7	0.0	B2W2F0	16.750	UFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.07	-0.04	3.6004	0.7996	0.0018	0.1055	0.0130	0.0941	0.2221		
48	17.40	-0.03	3.6940	0.7796	0.0796	0.1015	0.0120	0.0881	0.2110		
49	17.75	-0.04	3.7741	0.7565	-0.0235	0.0879	0.0120	0.0846	0.2004		
50	18.07	-0.03	3.8690	0.7846	0.0089	0.1565	0.0100	0.0771	0.2028		
51	18.42	-0.03	3.9532	0.7977	0.0133	0.1824	0.0130	0.0662	0.2018		
52	18.75	-0.04	4.0316	0.8000	-0.0081	0.1313	0.0160	0.0609	0.1984		
53	19.08	-0.03	4.1114	0.7982	0.0157	0.1930	0.0150	0.0566	0.1942		
54	19.42	-0.03	4.1649	0.7963	-0.0013	0.1928	0.0140	0.0477	0.1912		
55	19.73	-0.04	4.2377	0.8103	-0.0482	0.1965	-0.0130	0.0459	0.1912		
56	20.07	-0.04	4.2501	0.8169	-0.1213	0.2518	-0.0320	0.0481	0.1922		
57	20.39	-0.05	4.3063	0.8502	-0.1515	0.2446	-0.0600	0.0429	0.1974		
58	20.72	-0.03	4.3937	0.8149	-0.0150	0.3330	-0.0580	0.0401	0.1855		
59	21.07	-0.04	4.4616	0.8398	-0.1011	0.2405	-0.0550	0.0381	0.1882		
60	21.41	-0.04	4.5677	0.8653	-0.0103	0.2144	-0.0610	0.0325	0.1894		
61	21.74	-0.04	4.6002	0.8848	-0.0295	0.2853	-0.0650	0.0269	0.1923		
62	22.06	-0.04	4.6863	0.8882	-0.0663	0.2388	-0.0510	0.0188	0.1895		
63	22.39	-0.04	4.7529	0.9040	-0.0035	0.1959	-0.0590	0.0147	0.1902		
64	22.69	-0.05	4.8212	0.9214	-0.0683	0.1136	-0.0590	0.0119	0.1911		
65	22.97	-0.05	4.8459	0.9178	0.0075	0.1945	-0.0570	0.0111	0.1894		
66	23.31	-0.04	4.9231	0.9537	0.0207	0.1980	-0.0540	0.0030	0.1937		
67	23.62	-0.05	5.0136	0.9229	-0.0597	0.1826	-0.0380	-0.0023	0.1841		
68	23.96	-0.06	5.0918	0.9824	-0.0728	0.1759	-0.0250	-0.0064	0.1929		
69	24.27	-0.05	5.1459	1.0106	0.0163	0.1232	-0.0180	-0.0003	0.1964		
70	24.59	-0.05	5.1959	1.0256	-0.0140	0.1096	-0.0180	-0.0088	0.1974		
71	24.90	-0.04	5.2830	1.0477	0.0253	0.2196	-0.0200	-0.0128	0.1983		
72	25.21	-0.06	5.3923	1.1097	-0.0223	0.0502	-0.0190	-0.0196	0.2058		
73	25.52	-0.06	5.4591	1.1261	-0.0527	0.0658	-0.0180	-0.0213	0.2063		
74	25.83	-0.06	5.5485	1.1610	-0.0569	-0.0193	-0.0210	-0.0233	0.2092		
75	26.13	-0.06	5.6304	1.2333	0.0066	0.0308	-0.0320	-0.0316	0.2190		
76	26.40	-0.07	5.6797	1.2703	-0.0475	0.1100	-0.0190	-0.0333	0.2237		
77	26.71	-0.07	5.7594	1.2944	-0.0042	0.0489	-0.0260	-0.0419	0.2248		
78	27.01	-0.07	5.8371	1.3388	-0.0148	0.0237	-0.0310	-0.0452	0.2294		
79	27.32	-0.07	5.9433	1.4011	-0.0516	0.0732	-0.0290	-0.0507	0.2357		
80	27.62	-0.07	6.0032	1.4362	-0.0646	0.1114	-0.0290	-0.0605	0.2392		
81	27.94	-0.07	6.1320	1.5379	-0.0339	0.0725	-0.0330	-0.0694	0.2508		
82	28.24	-0.06	6.2248	1.5620	0.0405	0.0953	-0.0360	-0.0717	0.2509		
83	28.55	-0.07	6.3070	1.6049	-0.0337	0.1992	-0.0250	-0.0793	0.2545		
84	28.86	-0.08	6.3581	1.6683	-0.0833	0.0886	-0.0370	-0.0831	0.2624		
85	29.18	-0.07	6.4968	1.8211	-0.0202	0.0113	-0.0320	-0.0917	0.2803		
86	29.51	-0.06	6.6294	1.9493	0.2073	-0.3092	-0.0450	-0.1050	0.2940		
87	29.81	-0.07	6.6425	1.9710	0.1047	-0.2006	-0.0420	-0.1143	0.2967		
88	30.13	-0.07	6.8197	2.0999	0.0068	0.0695	-0.0460	-0.1219	0.3079		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST.	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	26	0.92	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.83	0.02	-0.4307	-0.2099	0.1037	0.1018	0.0050	0.1571	0.4872		
2	-2.71	0.01	-0.3948	-0.2091	0.0730	0.0668	0.0020	0.1568	0.5296		
3	-2.09	0.03	-0.3243	-0.1670	0.1565	0.0989	0.0020	0.1585	0.5149		
4	-1.44	0.01	-0.2074	-0.0996	0.0551	0.1028	0.0020	0.1593	0.4804		
5	-0.85	0.01	-0.1055	-0.0403	0.0481	0.0337	0.0010	0.1629	0.3820		
6	-0.31	0.01	-0.0333	-0.0164	0.0447	0.0204	0.0060	0.1610	0.4919		
7	0.23	0.01	0.0550	0.0570	0.0817	0.0026	0.0020	0.1642	1.0364		
8	0.77	0.02	0.1561	0.1044	0.1282	0.0765	0.0030	0.1693	0.6692		
9	1.28	0.02	0.2320	0.1483	0.0821	0.0691	0.0040	0.1720	0.6378		
10	1.81	0.01	0.3338	0.1927	0.0939	0.0235	0.0040	0.1715	0.5772		
11	2.29	0.02	0.4008	0.2067	0.1344	0.1168	0.0080	0.1693	0.5157		
12	2.77	0.01	0.4865	0.2627	0.0345	0.0137	0.0050	0.1690	0.5400		
13	3.29	0.01	0.5775	0.3143	0.0866	0.0508	0.0090	0.1690	0.5443		
14	3.77	0.0	0.6846	0.3284	0.0600	0.0240	0.0030	0.1663	0.4797		
15	4.28	-0.01	0.8021	0.4069	-0.0149	0.0079	0.0050	0.1670	0.5073		
16	4.73	0.01	0.8534	0.4260	0.0776	0.0494	0.0030	0.1685	0.4992		
17	5.21	0.01	0.9463	0.4570	0.1605	0.1213	0.0050	0.1664	0.4829		
18	5.66	0.01	1.0314	0.4688	0.1011	0.0814	0.0030	0.1717	0.4546		
19	6.13	-0.01	1.1579	0.4896	0.0585	0.0245	0.0110	0.1752	0.4228		
20	6.59	0.0	1.2531	0.5023	0.0668	0.1225	0.0120	0.1797	0.4008		
21	7.07	0.01	1.3698	0.5359	0.1613	0.0692	0.0100	0.1800	0.3912		
22	7.52	-0.01	1.4526	0.5560	0.0461	0.0944	0.0090	0.1800	0.3828		
23	7.97	-0.01	1.5579	0.5856	0.1364	0.1360	0.0060	0.1832	0.3759		
24	8.41	-0.03	1.6527	0.5989	0.0674	0.0606	0.0090	0.1751	0.3624		
25	8.88	-0.03	1.7257	0.6157	0.1251	0.1238	0.0120	0.1756	0.3568		
26	9.29	-0.03	1.8266	0.6374	0.0656	0.0939	0.0090	0.1728	0.3490		
27	9.70	-0.03	1.9205	0.6528	0.0910	0.0536	0.0100	0.1726	0.3399		
28	10.15	-0.03	2.0020	0.6527	0.0700	0.0740	0.0140	0.1633	0.3260		
29	10.53	-0.03	2.1076	0.6729	0.0281	0.0247	0.0120	0.1674	0.3192		
30	10.96	-0.02	2.2158	0.6936	0.1013	0.0642	0.0080	0.1642	0.3129		
31	11.34	-0.04	2.2999	0.6960	-0.0213	0.0658	0.0120	0.1596	0.3029		
32	11.75	0.0	2.4035	0.7086	0.1208	0.0679	0.0100	0.1538	0.2948		
33	12.12	-0.01	2.4922	0.7104	0.0596	0.1205	0.0120	0.1519	0.2851		
34	12.52	-0.01	2.5983	0.7119	0.0310	0.1586	0.0110	0.1480	0.2740		
35	12.87	-0.01	2.6773	0.7271	0.0599	0.0751	0.0140	0.1454	0.2716		
36	13.26	-0.01	2.7910	0.7249	0.0526	0.0513	0.0080	0.1413	0.2597		
37	13.62	-0.01	2.8873	0.7411	0.0220	0.0772	0.0110	0.1385	0.2567		
38	14.00	-0.01	2.9488	0.7320	0.0566	0.0847	0.0130	0.1299	0.2482		
39	14.36	0.01	3.0291	0.7236	0.1739	0.1515	0.0050	0.1282	0.2389		
40	14.71	-0.01	3.1183	0.7487	0.0304	0.1294	-0.0050	0.1202	0.2401		
41	15.08	0.0	3.1823	0.7701	0.1380	0.1048	-0.0140	0.1178	0.2420		
42	15.42	0.0	3.2106	0.7985	0.0880	0.1068	0.0170	0.1174	0.2487		
43	15.78	-0.01	3.3165	0.8102	0.0133	0.1394	0.0150	0.1150	0.2443		
44	16.12	0.0	3.3920	0.7915	0.0884	0.1922	0.0120	0.1149	0.2334		
45	16.47	-0.02	3.4912	0.7965	-0.0668	0.1105	0.0100	0.1103	0.2281		
46	16.80	-0.01	3.5578	0.7963	0.0196	0.1625	0.0110	0.1074	0.2238		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 26.092 1.7 0.0 82W2F0 16.750 OFF OFF OFF OFF FIXED

PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	17.16	-0.01	3.6802	0.7769	0.0372	0.1059	0.0060	0.1057	0.2111
48	17.49	-0.01	3.7906	0.7854	0.0507	0.0886	0.0050	0.1027	0.2072
49	17.83	-0.02	3.8615	0.8261	-0.0200	0.1750	0.0	0.0981	0.2139
50	18.16	-0.04	3.9607	0.8042	-0.0508	0.1541	0.0	0.0939	0.2031
51	18.51	-0.03	4.0635	0.8043	-0.0310	0.2414	-0.0090	0.0891	0.1979
52	18.84	-0.04	4.1540	0.8216	-0.0961	0.1805	-0.0080	0.0838	0.1978
53	19.19	-0.04	4.2509	0.8328	-0.0495	0.2088	-0.0050	0.0788	0.1959
54	19.53	-0.05	4.3177	0.8503	-0.0652	0.0873	0.0	0.0737	0.1969
55	19.83	-0.03	4.3656	0.8762	-0.0325	0.2115	-0.0010	0.0695	0.2007
56	20.18	-0.04	4.4724	0.8847	-0.0222	0.1575	-0.0090	0.0645	0.1978
57	20.50	-0.04	4.4746	0.8886	-0.0435	0.1319	-0.0150	0.0629	0.1986
58	20.86	-0.05	4.5614	0.9201	-0.0740	0.1676	-0.0780	0.0568	0.2017
59	21.18	-0.04	4.6553	0.8966	-0.0045	0.1773	-0.0190	0.0520	0.1926
60	21.52	-0.03	4.6472	0.9530	0.0036	0.2309	-0.0010	0.0499	0.2051
61	21.84	-0.05	4.7338	0.9497	-0.0870	0.2560	-0.0400	0.0478	0.2006
62	22.19	-0.05	4.8502	1.0088	-0.0424	0.2123	-0.0560	0.0400	0.2080
63	22.49	-0.04	4.8558	1.0199	0.0135	0.2231	-0.0550	0.0387	0.2100
64	22.83	-0.05	4.9501	1.0729	-0.0134	0.2087	-0.0520	0.0306	0.2167
65	23.11	-0.04	5.0197	1.0763	0.0194	0.1098	-0.0400	0.0327	0.2144
66	23.47	-0.04	5.1637	1.1937	-0.0120	0.2202	-0.0440	0.0232	0.2312
67	23.78	-0.06	5.2325	1.1754	-0.0783	0.1146	-0.0510	0.0244	0.2246
68	24.11	-0.05	5.2995	1.3046	-0.0381	0.1293	-0.0150	0.0207	0.2462
69	24.44	-0.04	5.3884	1.3431	0.0471	0.1080	-0.0390	0.0166	0.2493
70	24.77	-0.06	5.5028	1.4219	-0.0029	-0.0189	-0.0360	0.0134	0.2584
71	25.10	-0.05	5.5753	1.5204	-0.0565	0.1741	-0.0390	0.0086	0.2727
72	25.41	-0.07	5.6586	1.5598	-0.0159	0.1202	-0.0440	0.0039	0.2756
73	25.72	-0.07	5.7501	1.6565	-0.0062	0.1157	-0.0390	-0.0012	0.2881
74	26.03	-0.07	5.8425	1.7292	-0.0751	0.1771	-0.0420	-0.0038	0.2960
75	26.34	-0.07	5.9295	1.8003	-0.0865	0.2441	-0.0430	-0.0109	0.3036
76	26.64	-0.07	5.9991	1.8509	-0.0958	0.3261	-0.0500	-0.0184	0.3085
77	26.95	-0.07	6.1300	1.9466	-0.0977	0.3287	-0.0430	-0.0298	0.3176
78	27.23	-0.07	6.1655	1.9719	-0.0842	0.2199	-0.0430	-0.0334	0.3198
79	27.55	-0.06	6.2662	2.0519	-0.0052	0.1933	-0.0430	-0.0437	0.3275
80	27.85	-0.07	6.3333	2.0760	-0.0842	0.1729	-0.0420	-0.0492	0.3278
81	28.18	-0.08	6.4016	2.1684	-0.1323	0.2412	-0.0430	-0.0601	0.3356
82	28.48	-0.09	6.5427	2.2627	-0.1497	0.1126	-0.0420	-0.0649	0.3458
83	28.78	-0.08	6.6312	2.3008	-0.0162	0.2356	-0.0420	-0.0728	0.3470
84	29.12	-0.08	6.7657	2.4054	-0.0759	0.0423	-0.0520	-0.0827	0.3555
85	29.43	-0.07	6.8872	2.5333	0.1164	-0.2959	-0.0530	-0.0776	0.3678
86	29.76	-0.06	7.0592	2.5565	0.1112	-0.1137	-0.0690	-0.0911	0.3622
87	30.07	0.01	7.1226	2.6308	0.4940	0.2562	-0.0840	-0.1007	0.3694

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	27	0.97	1.7	0.0	82WFO	16.750	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.84	-0.01	-0.4237	-0.2277	0.0267	0.1146	0.0040	0.2185	0.5372	
2	-2.55	0.0	-0.3868	-0.2059	0.1067	0.0436	0.0	0.2168	0.5407	
3	-1.99	-0.01	-0.3102	-0.1467	0.0419	0.0193	0.0050	0.2209	0.4730	
4	-1.35	-0.02	-0.1817	-0.0886	0.0882	0.0625	0.0010	0.2222	0.4877	
5	-0.77	-0.02	-0.1103	-0.0386	0.1231	0.0167	0.0050	0.2216	0.3498	
6	-0.24	-0.02	-0.0227	0.0118	0.1075	0.1195	0.0010	0.2261	-0.5189	
7	0.33	0.01	0.0652	0.0691	0.2235	-0.0089	0.0060	0.2261	0.7749	
8	0.84	-0.01	0.1466	0.1067	0.0916	0.1027	0.0030	0.2294	0.7282	
9	1.37	-0.01	0.2860	0.1796	0.1988	-0.0073	0.0030	0.2364	0.6280	
10	1.88	-0.01	0.3448	0.2143	0.1752	0.0157	0.0060	0.2319	0.6215	
11	2.38	-0.01	0.4272	0.2627	0.1701	0.0569	0.0080	0.2330	0.6150	
12	2.87	-0.04	0.5097	0.2952	0.0091	0.0213	0.0070	0.2329	0.5792	
13	3.38	-0.03	0.5977	0.3230	0.0050	0.0871	0.0060	0.2292	0.5404	
14	3.86	-0.02	0.7202	0.3735	0.0673	0.1158	0.0050	0.2297	0.5186	
15	4.32	-0.03	0.7734	0.3940	0.0508	0.0649	0.0080	0.2273	0.5095	
16	4.81	-0.03	0.8924	0.4264	0.0532	0.0585	0.0070	0.2320	0.4779	
17	5.27	-0.03	0.9670	0.4760	0.0732	0.0145	0.0100	0.2344	0.4923	
18	5.75	-0.04	1.0995	0.5015	0.0302	0.0167	0.0080	0.2408	0.4561	
19	6.20	-0.04	1.1593	0.5366	0.0754	-0.0136	0.0120	0.2499	0.4611	
20	6.68	-0.03	1.2574	0.5363	0.1350	0.0920	0.0080	0.2466	0.4205	
21	7.14	-0.03	1.3736	0.5756	0.1154	0.0654	0.0080	0.2475	0.4190	
22	7.60	-0.05	1.4778	0.5897	0.0255	0.0083	0.0110	0.2490	0.3991	
23	8.04	-0.03	1.5281	0.6063	0.1841	0.0163	0.0090	0.2422	0.3968	
24	8.48	-0.02	1.6010	0.6022	0.1374	0.1536	0.0140	0.2447	0.3762	
25	8.96	-0.03	1.7434	0.6519	0.0603	0.1736	0.0100	0.2353	0.3739	
26	9.36	-0.05	1.8361	0.6651	0.0749	0.2221	0.0110	0.2378	0.3622	
27	9.79	-0.05	1.9354	0.6809	0.0625	-0.0055	0.0130	0.2320	0.3518	
28	10.21	-0.04	2.0036	0.6875	0.0625	0.0995	0.0140	0.2268	0.3431	
29	10.63	-0.07	2.1374	0.7171	0.1151	0.0788	0.0100	0.2262	0.3355	
30	11.03	-0.07	2.2085	0.7076	0.0144	0.0798	0.0120	0.2213	0.3204	
31	11.43	0.0	2.3471	0.7275	0.0759	0.0777	0.0100	0.2147	0.3100	
32	11.84	-0.03	2.4411	0.7259	0.0581	0.1156	0.0080	0.2123	0.2974	
33	12.20	-0.02	2.5022	0.7234	0.1015	0.1869	0.0110	0.2105	0.2891	
34	12.59	-0.02	2.5976	0.7138	0.0890	0.0954	0.0120	0.2029	0.2748	
35	12.96	-0.03	2.7506	0.7515	-0.0403	0.0744	0.0100	0.2021	0.2732	
36	13.33	0.0	2.8381	0.7370	0.1201	0.1128	0.0120	0.1968	0.2597	
37	13.70	0.0	2.9636	0.7183	0.0663	0.1492	0.0110	0.1911	0.2424	
38	14.11	-0.02	3.0661	0.7498	0.0251	0.1208	0.0100	0.1881	0.2445	
39	14.47	-0.04	3.1458	0.7582	0.0415	0.1509	0.0100	0.1878	0.2410	
40	14.82	-0.02	3.2671	0.7564	0.0291	0.2252	0.0090	0.1803	0.2315	
41	15.18	-0.03	3.3174	0.7180	0.0652	0.0567	0.0130	0.1754	0.2164	
42	15.56	-0.01	3.4683	0.7390	0.1252	0.1717	0.0100	0.1718	0.2132	
43	15.91	-0.02	3.5426	0.7450	-0.0011	0.1775	0.0120	0.1687	0.2105	
44	16.23	-0.02	3.6101	0.7301	0.0839	0.0745	0.0110	0.1634	0.2022	
45	16.59	-0.03	3.7324	0.7538	-0.0115	0.1351	0.0110	0.1612	0.2020	
46	16.91	-0.05	3.7872	0.7361	-0.0150	0.2150	0.0120	0.1576	0.1944	

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6	27	0.97	1.7	0.0	B2WZFO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.27	-0.06	3.8680	0.7660	-0.0617	0.0404	0.0120	0.1538	0.1940		
48	17.60	-0.04	3.9516	0.7700	-0.0053	0.1840	0.0110	0.1453	0.1948		
49	17.95	-0.04	4.0456	0.7978	0.0036	0.0879	0.0090	0.1411	0.1958		
50	18.28	-0.04	4.1576	0.8216	0.0255	0.1023	0.0070	0.1366	0.1976		
51	18.63	-0.05	4.2433	0.8204	-0.0303	0.1044	0.0100	0.1301	0.1933		
52	18.96	-0.05	4.2927	0.9293	-0.0388	0.2143	-0.0190	0.1188	0.2165		
53	19.32	-0.03	4.3455	0.9683	0.0333	0.2413	-0.0120	0.1187	0.2228		
54	19.65	-0.04	4.4093	0.9700	0.0154	0.1614	-0.0130	0.1095	0.2200		
55	19.97	-0.05	4.5160	1.0086	-0.0725	0.1555	-0.0160	0.1084	0.2233		
56	20.32	-0.03	4.5861	1.0385	0.0012	0.2043	-0.0060	0.1062	0.2264		
57	20.65	-0.05	4.6628	1.0811	-0.0561	0.1335	-0.0110	0.1025	0.2319		
58	21.00	-0.05	4.7191	1.1413	-0.0347	0.0726	0.0100	0.0930	0.2418		
59	21.34	-0.05	4.8712	1.2313	-0.0543	0.1670	0.0070	0.0807	0.2528		
60	21.69	-0.04	4.9178	1.2621	0.0629	0.1889	0.0180	0.0797	0.2566		
61	22.02	-0.04	5.0059	1.3106	0.0253	0.1326	0.0040	0.0700	0.2618		
62	22.36	-0.05	5.0954	1.3713	-0.0401	0.1681	0.0100	0.0684	0.2691		
63	22.69	-0.06	5.2161	1.4833	0.0764	0.0240	0.0060	0.0583	0.2844		
64	23.02	-0.07	5.3304	1.5863	0.0188	0.0517	-0.0020	0.0548	0.2976		
65	23.33	-0.06	5.3639	1.6114	0.0621	-0.0129	0.0010	0.0547	0.3004		
66	23.65	-0.07	5.4581	1.7245	-0.0222	0.1421	-0.0100	0.0530	0.3159		
67	23.99	-0.05	5.5762	1.8061	-0.0489	0.1824	-0.0090	0.0500	0.3239		
68	24.33	-0.04	5.6944	1.9156	0.0967	-0.0124	-0.0080	0.0441	0.3364		
69	24.66	-0.07	5.7791	1.9909	-0.0215	0.1091	-0.0120	0.0395	0.3445		
70	24.99	-0.06	5.8533	2.0820	0.0899	-0.0439	-0.0230	0.0294	0.3557		
71	25.28	-0.07	5.8889	2.1021	0.0219	-0.0127	-0.0260	0.0300	0.3570		
72	25.64	-0.08	6.0284	2.1608	-0.0585	0.0669	-0.0240	0.0210	0.3584		
73	25.93	-0.08	6.1361	2.1970	-0.0584	0.0877	-0.0230	0.0174	0.3581		
74	26.22	-0.08	6.1886	2.2875	-0.1031	0.1943	-0.0280	0.0056	0.3696		
75	26.57	-0.09	6.3207	2.4046	-0.0707	0.0260	-0.0310	0.0064	0.3804		
76	26.86	-0.06	6.3869	2.5089	-0.0293	0.2760	-0.0320	0.0007	0.3928		
77	27.16	-0.06	6.5531	2.7610	0.0270	0.1302	-0.0430	-0.0101	0.4213		
78	27.52	-0.05	6.7618	2.8728	0.0399	0.2151	-0.0400	-0.0151	0.4249		
79	27.80	-0.04	6.7470	2.9096	0.0292	0.1531	-0.0440	-0.0164	0.4312		
80	28.09	-0.06	6.8479	3.0083	-0.0336	0.0810	-0.0430	-0.0128	0.4393		
81	28.47	-0.04	7.0958	3.2752	0.0354	0.1244	-0.0670	-0.0295	0.4616		
82	28.77	-0.06	7.1407	3.3233	0.1736	-0.2440	-0.0740	-0.0323	0.4654		
83	29.09	-0.08	7.1914	3.3633	-0.0914	0.1649	-0.0650	-0.0400	0.4677		
84	29.38	-0.06	7.2095	3.3170	-0.0111	0.1615	-0.0580	-0.0531	0.4601		
85	29.71	-0.05	7.3441	3.4944	0.1487	-0.0902	-0.0620	-0.0522	0.4758		
86	30.03	-0.06	7.4122	3.5711	0.1725	-0.2755	-0.0710	-0.0611	0.4818		
87	30.34	-0.07	7.5287	3.6399	0.1241	-0.2597	-0.0610	-0.0730	0.4835		
88	30.68	-0.07	7.7109	3.8688	0.1390	-0.4255	-0.0680	-0.0792	0.5017		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	28	1.01	1.7	0.0	82M2F0	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP		
1	-2.86	0.0	-0.4689	-0.2364	0.0689	0.0975	0.0040	0.2727	0.5041		
2	-2.53	0.01	-0.4040	-0.2142	0.1235	0.0495	0.0040	0.2669	0.5302		
3	-1.96	-0.03	-0.2904	-0.1464	-0.0309	0.0763	0.0050	0.2173	0.5043		
4	-1.35	0.04	-0.2425	-0.1075	0.1913	0.1792	0.0070	0.2858	0.4433		
5	-0.76	0.01	-0.1306	-0.0602	0.0993	0.0500	0.0070	0.2848	0.4606		
6	-0.18	0.03	-0.0198	0.0087	0.1211	0.1344	0.0070	0.2727	-0.4404		
7	0.35	0.02	0.1004	0.0864	0.1046	0.0985	0.0040	0.2800	0.6610		
8	0.90	0.03	0.1599	0.1471	0.1603	0.0666	0.0060	0.2851	0.9202		
9	1.39	0.03	0.2435	0.1901	0.1195	0.1387	0.0030	0.2843	0.7807		
10	1.91	0.01	0.3580	0.2488	0.0590	0.0014	0.0080	0.2878	0.6950		
11	2.42	0.02	0.4710	0.3094	0.0707	-0.0100	0.0070	0.2858	0.6569		
12	2.91	0.02	0.5386	0.3538	0.0873	0.1138	0.0060	0.2873	0.6568		
13	3.43	0.01	0.6303	0.3964	0.0664	0.0730	0.0110	0.2955	0.6289		
14	3.89	0.02	0.7075	0.3983	0.0877	0.1302	0.0080	0.2995	0.5630		
15	4.39	0.0	0.8275	0.4413	0.1057	0.0230	0.0080	0.2952	0.5333		
16	4.85	0.03	0.9318	0.4713	0.1283	0.0734	0.0090	0.2956	0.5058		
17	5.32	-0.01	1.0040	0.5112	0.0278	0.0981	0.0100	0.2991	0.5092		
18	5.80	0.01	1.1385	0.5489	0.0429	0.0899	0.0100	0.2993	0.4821		
19	6.24	0.01	1.1796	0.5552	0.1557	0.0560	0.0140	0.3040	0.4707		
20	6.71	-0.05	1.3008	0.6235	-0.0825	0.0145	0.0150	0.3087	0.4793		
21	7.19	-0.02	1.3960	0.6272	0.1248	0.1313	0.0110	0.3132	0.4493		
22	7.64	-0.01	1.4577	0.6689	0.0287	0.0598	0.0140	0.3093	0.4588		
23	8.12	-0.09	1.6290	0.6930	0.0192	0.0771	0.0110	0.3110	0.4254		
24	8.55	-0.04	1.6731	0.7113	0.0089	0.0605	0.0100	0.3033	0.4251		
25	9.02	0.02	1.7458	0.7555	-0.0070	0.0538	0.0130	0.3020	0.4231		
26	9.42	-0.06	1.8414	0.7477	0.0427	0.1162	0.0150	0.2920	0.4060		
27	9.85	-0.02	1.9426	0.7638	-0.1274	0.0704	0.0160	0.2835	0.3932		
28	10.28	-0.03	2.0623	0.7913	0.1310	0.1416	0.0160	0.2653	0.3837		
29	10.70	-0.09	2.1615	0.7904	-0.1008	0.0211	0.0130	0.2603	0.3657		
30	11.10	0.01	2.2346	0.8040	0.0170	0.1352	0.0160	0.2656	0.3598		
31	11.53	-0.03	2.3400	0.8435	0.0704	0.0904	0.0170	0.2671	0.3605		
32	11.90	0.06	2.4129	0.8724	0.0091	0.2352	0.0130	0.2646	0.3616		
33	12.29	0.02	2.5265	0.9094	0.0707	0.1360	0.0160	0.2607	0.3599		
34	12.68	0.0	2.6494	0.9193	0.0980	0.1799	0.0140	0.2519	0.3470		
35	13.04	-0.02	2.7018	0.9398	0.0096	0.1095	0.0170	0.2591	0.3478		
36	13.43	0.02	2.8560	0.9489	0.0673	0.1908	0.0140	0.2689	0.3323		
37	13.78	-0.02	2.8885	0.9254	0.0869	0.1813	0.0160	0.2606	0.3218		
38	14.18	0.0	2.9878	0.9324	0.0657	0.2190	0.0160	0.2453	0.3121		
39	14.53	0.02	3.0536	0.9463	0.0528	0.2191	0.0130	0.2359	0.3099		
40	14.92	-0.02	3.2170	0.9965	-0.0515	0.0551	0.0130	0.2309	0.3098		
41	15.29	0.0	3.2895	1.0140	-0.0662	0.2356	0.0140	0.2315	0.3083		
42	15.64	0.02	3.3389	1.0438	0.0288	0.2007	0.0160	0.2238	0.3126		
43	16.01	0.0	3.4384	1.0425	0.0126	0.2503	0.0140	0.2179	0.3032		
44	16.33	0.02	3.5491	1.0254	0.0391	0.2172	0.0140	0.2169	0.2889		
45	16.69	-0.01	3.6849	1.0103	0.0460	0.1366	0.0130	0.2039	0.2742		
46	17.02	-0.02	3.7880	1.1080	0.0709	0.1747	0.0140	0.2110	0.2925		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	28	1.01	1.7	0.0	B2N2F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP		
47	17.38	0.0	3.8417	1.0948	0.1189	0.2985	0.0160	0.2083	0.2850		
48	17.71	0.0	3.9381	1.1418	-0.0572	0.2500	0.0180	0.2203	0.2899		
49	18.06	0.03	4.0498	1.1524	0.1320	0.2352	0.0160	0.2223	0.2846		
50	18.41	-0.04	4.1541	1.1754	-0.0187	0.1912	0.0110	0.2323	0.2839		
51	18.75	0.0	4.2623	1.2218	0.0012	0.2843	0.0110	0.2437	0.2866		
52	19.08	-0.01	4.3112	1.2393	0.0290	0.1344	0.0120	0.2354	0.2875		
53	19.43	-0.05	4.3776	1.2494	-0.1126	0.2636	0.0100	0.2110	0.2854		
54	19.79	-0.04	4.5000	1.2820	-0.1156	0.0948	0.0130	0.2222	0.2849		
55	20.11	-0.01	4.5462	1.3313	0.0049	0.1901	0.0160	0.2134	0.2928		
56	20.45	0.01	4.6179	1.3969	0.1113	0.2801	0.0090	0.2147	0.3012		
57	20.79	0.0	4.6920	1.4392	0.0690	0.1764	0.0070	0.1837	0.3067		
58	21.12	-0.01	4.7790	1.4374	0.1703	0.2106	0.0090	0.1731	0.3008		
59	21.48	-0.04	4.8952	1.5297	0.0237	-0.0232	0.0060	0.1659	0.3125		
60	21.83	-0.06	5.0476	1.5812	-0.0967	0.2443	0.0050	0.1769	0.3093		
61	22.17	-0.04	5.0713	1.6450	-0.0365	0.2161	0.0130	0.1634	0.3244		
62	22.51	-0.04	5.2277	1.7150	0.0031	0.1466	0.0010	0.1465	0.3281		
63	22.83	-0.01	5.2646	1.7264	0.1076	0.1643	0.0150	0.1482	0.3279		
64	23.15	-0.01	5.4014	1.7528	0.1064	0.1000	0.0070	0.1294	0.3245		
65	23.48	-0.04	5.5123	1.7736	0.0052	0.2347	0.0050	0.1516	0.3217		
66	23.82	-0.04	5.6432	1.8023	0.0479	0.0639	0.0080	0.1487	0.3194		
67	24.11	-0.02	5.6983	1.8502	0.1330	0.1638	0.0070	0.1392	0.3247		
68	24.47	-0.05	5.8557	1.9966	0.0011	0.1274	-0.0020	0.1260	0.3410		
69	24.82	-0.04	5.9900	2.0196	0.0306	0.1741	0.0090	0.1378	0.3372		
70	25.13	-0.04	6.0571	2.0107	0.0553	0.1066	0.0020	0.1400	0.3320		
71	25.47	-0.04	6.2072	2.1155	0.1024	-0.0421	-0.0040	0.1446	0.3408		
72	25.81	-0.06	6.3117	2.1552	-0.0503	0.1224	0.0080	0.1219	0.3415		
73	26.12	-0.06	6.4423	2.1624	0.0591	0.0223	0.0070	0.1244	0.3357		
74	26.41	-0.08	6.4702	2.4273	-0.0449	0.0119	-0.0050	0.1164	0.3752		
75	26.77	-0.05	6.6102	2.5381	0.1577	-0.1048	-0.0190	0.1124	0.3840		
76	27.07	-0.06	6.7351	2.7112	-0.0021	0.1019	-0.0100	0.1148	0.4026		
77	27.36	-0.06	6.8335	2.7925	0.0666	0.0528	-0.0110	0.1067	0.4086		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	29	1.05	1.7	0.0	B2WFO	16.750	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.85	0.0	-0.4390	-0.2772	-0.0197	0.0626	0.0090	0.3036	0.6314	
2	-2.51	0.0	-0.4057	-0.2888	0.1019	0.1113	0.0070	0.2923	0.7119	
3	-1.93	0.01	-0.2982	-0.2275	0.1556	0.0901	0.0050	0.2962	0.7630	
4	-1.32	0.0	-0.2120	-0.1552	0.0939	0.1005	0.0070	0.3105	0.7321	
5	-0.73	0.03	-0.1172	-0.1039	0.0944	0.1548	0.0080	0.3188	0.8867	
6	-0.15	0.02	-0.0163	-0.0122	0.0905	0.1193	0.0100	0.3207	0.7472	
7	0.37	0.02	0.0689	0.0425	0.0843	0.0300	0.0080	0.3485	0.6174	
8	0.94	-0.01	0.1955	0.1213	-0.0480	0.0692	0.0090	0.3593	0.6205	
9	1.42	0.02	0.2667	0.1566	0.1351	0.0719	0.0100	0.3630	0.5873	
10	1.96	0.01	0.3550	0.2110	0.1905	0.0423	0.0090	0.3544	0.5944	
11	2.46	0.0	0.4503	0.2484	0.0508	0.1209	0.0060	0.3557	0.5516	
12	2.97	0.01	0.5367	0.3034	0.0783	0.0134	0.0070	0.3448	0.5653	
13	3.46	-0.01	0.6588	0.3415	0.0008	0.1079	0.0120	0.3418	0.5183	
14	3.94	-0.01	0.7594	0.3747	0.0771	-0.0144	0.0110	0.3351	0.4934	
15	4.42	0.03	0.8147	0.3992	0.1900	0.1160	0.0120	0.3406	0.4900	
16	4.88	0.03	0.9203	0.4284	0.1681	0.0087	0.0110	0.3452	0.4655	
17	5.37	0.02	1.0088	0.4665	0.0584	0.1692	0.0170	0.3448	0.4624	
18	5.84	0.02	1.1635	0.4888	0.0893	0.0810	0.0100	0.3463	0.4201	
19	6.31	0.03	1.2381	0.5193	0.0434	0.1102	0.0080	0.3562	0.4194	
20	6.76	0.05	1.3116	0.5594	0.1436	0.0620	0.0140	0.3585	0.4265	
21	7.25	-0.01	1.4098	0.5919	-0.0863	0.1158	0.0130	0.3616	0.4199	
22	7.70	-0.06	1.5101	0.5915	-0.0703	0.1154	0.0130	0.3450	0.3917	
23	8.17	-0.09	1.5711	0.5741	0.0106	0.0612	0.0130	0.3276	0.3654	
24	8.62	-0.06	1.7025	0.6111	-0.0114	0.0400	0.0170	0.3232	0.3590	
25	9.06	0.01	1.7501	0.6555	0.0908	0.0549	0.0120	0.3187	0.3746	
26	9.48	0.05	1.8879	0.6796	0.0975	0.1915	0.0140	0.3092	0.3600	
27	9.92	-0.02	1.9861	0.6950	0.0018	0.0595	0.0140	0.2955	0.3499	
28	10.33	0.09	2.0511	0.7544	0.0436	0.2219	0.0170	0.2968	0.3681	
29	10.74	0.06	2.1272	0.7544	0.1575	0.1705	0.0150	0.2990	0.3546	
30	11.16	-0.04	2.2379	0.7864	0.0520	0.1562	0.0160	0.3123	0.3514	
31	11.57	-0.03	2.3557	0.7715	0.0539	0.1365	0.0140	0.3124	0.3275	
32	11.47	0.02	2.4621	0.7915	0.1309	0.2177	0.0130	0.3202	0.3215	
33	12.32	-0.02	2.5077	0.7867	-0.0258	0.0741	0.0170	0.3184	0.3137	
34	12.71	0.0	2.6123	0.7833	0.0956	0.1201	0.0210	0.3245	0.2998	
35	13.10	-0.01	2.7275	0.7888	0.0474	0.0649	0.0230	0.3288	0.2842	
36	13.47	0.0	2.8529	0.7953	0.0482	0.1825	0.0170	0.3176	0.2788	
37	13.84	0.01	2.9337	0.7982	0.0196	0.1405	0.0190	0.3160	0.2721	
38	14.23	0.0	3.0409	0.7921	-0.0579	0.2110	0.0150	0.3165	0.2605	
39	14.58	-0.04	3.0679	0.8113	-0.0008	0.0861	0.0190	0.3079	0.2644	
40	14.97	0.0	3.1719	0.8727	-0.0544	0.1241	0.0140	0.2944	0.2751	
41	15.34	-0.02	3.2706	0.8595	-0.0115	0.1411	0.0150	0.2934	0.2628	
42	15.69	0.02	3.3264	0.9484	0.0698	0.2442	0.0160	0.2846	0.2851	
43	16.07	-0.01	3.4636	0.9571	-0.0080	0.1392	0.0160	0.2573	0.2763	
44	16.39	-0.02	3.5138	1.0209	-0.0621	0.2269	0.0220	0.2402	0.2905	
45	16.76	0.02	3.6585	1.0703	0.2321	0.2740	0.0150	0.2415	0.2925	
46	17.08	-0.01	3.7241	1.0524	-0.0476	0.1166	0.0210	0.2530	0.2826	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	29	1.05	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	LY	CLN	CLL	CAF	XCP	
47	17.43	-0.03	3.8293	1.0751	0.0438	0.1947	0.0180	0.2531	0.2808	
48	17.78	0.0	3.9860	1.0408	-0.0644	0.1441	0.0170	0.2769	0.2611	
49	18.10	0.02	4.0311	1.0526	0.0404	0.2537	0.0170	0.2877	0.2611	
50	18.45	-0.02	4.1428	1.0332	-0.0717	0.2623	0.0140	0.2872	0.2494	
51	18.79	-0.02	4.2318	1.0975	0.0506	0.1261	0.0190	0.2789	0.2593	
52	19.16	0.0	4.3216	1.0758	0.0729	0.2679	0.0170	0.2886	0.2489	
53	19.49	-0.02	4.3737	1.0668	0.0556	0.1221	0.0160	0.2924	0.2485	
54	19.83	-0.04	4.4761	1.1545	-0.0358	0.1491	0.0140	0.2870	0.2579	
55	20.16	-0.01	4.5099	1.1601	-0.0089	0.1374	0.0150	0.2844	0.2572	
56	20.48	-0.02	4.5751	1.1269	0.0574	0.1826	0.0140	0.2716	0.2463	
57	20.84	-0.01	4.6768	1.2025	0.0355	0.0763	0.0130	0.2527	0.2571	
58	21.16	-0.01	4.7263	1.2312	0.0072	0.2019	0.0130	0.2446	0.2605	
59	21.56	-0.03	4.9152	1.3337	-0.0617	0.1794	0.0090	0.2388	0.2713	
60	21.89	-0.01	4.9961	1.3443	0.0315	0.0779	0.0060	0.2366	0.2691	
61	22.22	-0.03	5.0925	1.4403	0.0301	0.0968	0.0090	0.2250	0.2828	
62	22.55	-0.04	5.1393	1.4658	0.0065	0.1219	0.0100	0.2183	0.2852	
63	22.86	-0.04	5.2212	1.4921	0.0620	0.0242	0.0080	0.2116	0.2858	
64	23.19	-0.05	5.4078	1.5349	-0.0419	0.1256	0.0070	0.2038	0.2838	
65	23.53	-0.03	5.4753	1.5824	0.0846	0.1195	0.0070	0.2018	0.2890	
66	23.88	-0.04	5.6315	1.5947	-0.0194	0.1451	0.0080	0.1986	0.2832	
67	24.18	-0.03	5.6949	1.6469	0.0002	0.1457	0.0060	0.1857	0.2892	
68	24.52	-0.06	5.7831	1.6673	0.0281	0.0287	0.0130	0.1921	0.2883	
69	24.88	-0.06	5.9794	1.7925	0.0901	0.0009	0.0050	0.1944	0.2998	
70	25.24	-0.06	6.1285	1.9057	0.1220	-0.0748	-0.0010	0.1993	0.3110	
71	25.53	-0.06	6.1770	1.9048	0.0981	-0.0603	0.0040	0.2002	0.3084	
72	25.87	-0.03	6.3027	1.9208	0.1721	-0.1029	0.0120	0.1915	0.3048	
73	26.18	-0.05	6.4000	2.1016	0.1473	-0.0492	-0.0010	0.1804	0.3284	
74	26.49	-0.06	6.5206	2.2066	0.0878	0.0011	-0.0040	0.1822	0.3384	
75	26.82	-0.07	6.6283	2.2958	-0.0533	0.2836	-0.0060	0.1810	0.3464	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	30	1.10								
	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.85	-0.02	-0.4368	-0.1993	0.0877	0.0472	0.0040	0.3175	0.4563	
2	-2.47	0.0	-0.3566	-0.1897	0.1035	0.0991	0.0080	0.3168	0.5321	
3	-1.88	0.02	-0.2949	-0.1211	0.0377	0.1282	0.0120	0.3202	0.4108	
4	-1.27	0.06	-0.1961	-0.0585	0.1634	0.0852	0.0100	0.3269	0.2981	
5	-0.68	0.02	-0.0623	0.0022	0.0655	0.0903	0.0080	0.3178	-0.0356	
6	-0.14	0.01	0.0138	0.0437	0.0627	0.0712	0.0090	0.3260	3.1652	
7	0.41	0.03	0.0584	0.0882	-0.0235	0.1969	0.0120	0.3294	1.5110	
8	0.94	0.03	0.1778	0.1331	0.1387	0.0878	0.0110	0.3159	0.7485	
9	1.46	0.02	0.2814	0.1790	0.1236	0.0180	0.0100	0.3210	0.6362	
10	1.97	0.02	0.3425	0.2345	0.0758	0.0499	0.0130	0.3261	0.6847	
11	2.50	0.03	0.4429	0.2698	0.1440	0.0814	0.0090	0.3162	0.6542	
12	2.98	0.0	0.5277	0.3200	0.0299	0.1591	0.0090	0.3066	0.6064	
13	3.46	0.02	0.6479	0.3338	0.0721	0.1130	0.0090	0.3109	0.5151	
14	3.97	0.02	0.7688	0.3885	0.0956	0.0881	0.0090	0.3233	0.5053	
15	4.43	0.01	0.8171	0.4299	0.1360	0.1366	0.0130	0.3346	0.5261	
16	4.90	0.05	0.9197	0.4642	0.0944	0.1818	0.0110	0.3510	0.5048	
17	5.39	0.02	1.0111	0.5083	0.2076	0.0993	0.0120	0.3546	0.5027	
18	5.87	-0.02	1.0999	0.5349	0.1612	0.0643	0.0110	0.3633	0.4864	
19	6.33	0.0	1.2110	0.6092	0.0593	0.1570	0.0130	0.3840	0.5031	
20	6.78	-0.03	1.3027	0.5799	0.0007	0.0670	0.0120	0.3721	0.4451	
21	7.26	0.06	1.3679	0.6306	0.2341	0.1142	0.0100	0.3753	0.4610	
22	7.72	0.03	1.5027	0.6369	0.1370	0.0392	0.0160	0.3700	0.4238	
23	8.19	-0.04	1.5364	0.6597	0.0692	0.0951	0.0110	0.3736	0.4294	
24	8.64	0.04	1.6670	0.7038	-0.0680	0.1392	0.0140	0.3734	0.4222	
25	9.06	-0.09	1.7642	0.7107	0.0525	0.1445	0.0180	0.3679	0.4029	
26	9.51	0.01	1.8594	0.7535	0.1424	0.2350	0.0110	0.3740	0.4052	
27	9.91	-0.07	1.9610	0.7421	-0.1106	0.1408	0.0160	0.3653	0.3784	
28	10.35	0.02	2.0508	0.7734	0.1315	0.0287	0.0170	0.3605	0.3771	
29	10.76	0.04	2.1329	0.8044	0.1795	0.2117	0.0190	0.3667	0.3771	
30	11.18	-0.03	2.2148	0.8078	-0.1425	0.1585	0.0200	0.3619	0.3647	
31	11.58	0.01	2.2834	0.8207	0.1324	0.1826	0.0160	0.3554	0.3594	
32	11.98	-0.01	2.3865	0.8334	-0.1174	0.2183	0.0130	0.3597	0.3492	
33	12.34	0.04	2.4538	0.8072	0.1172	0.2259	0.0150	0.3428	0.3289	
34	12.70	0.02	2.5008	0.8274	0.0308	0.1649	0.0160	0.3404	0.3308	
35	13.11	-0.01	2.6421	0.8245	0.0620	0.2632	0.0160	0.3255	0.3121	
36	13.46	-0.02	2.7436	0.8163	-0.0260	0.1644	0.0190	0.3194	0.2975	
37	13.87	-0.01	2.8987	0.8581	0.0566	0.1455	0.0160	0.3096	0.2960	
38	14.22	0.03	2.9443	0.8503	0.1388	0.1967	0.0170	0.3236	0.2888	
39	14.60	-0.01	3.0363	0.8745	0.0102	0.2167	0.0180	0.3305	0.2880	
40	14.97	0.04	3.1449	0.8805	-0.0578	0.2089	0.0220	0.3177	0.2800	
41	15.33	0.01	3.2004	0.9178	0.0832	0.3265	0.0250	0.3335	0.2868	
42	15.71	0.01	3.3831	0.9470	0.1593	0.0920	0.0210	0.3346	0.2799	
43	16.05	0.01	3.3778	0.9864	-0.0046	0.2224	0.0220	0.3432	0.2920	
44	16.41	0.0	3.4806	0.9823	-0.0443	0.2220	0.0190	0.3355	0.2822	
45	16.74	0.02	3.5590	1.0236	0.0172	0.2139	0.0230	0.3243	0.2876	
46	17.09	-0.04	3.6756	1.0203	-0.0455	0.0817	0.0190	0.3165	0.2776	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	30	1.10	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.44	0.02	3.7691	1.0164	0.0516	0.1437	0.0170	0.3065	0.2697		
48	17.76	0.01	3.8292	1.0403	0.0641	0.2102	0.0160	0.2954	0.2717		
49	18.12	-0.01	3.9515	1.0861	0.1060	0.1986	0.0170	0.2909	0.2748		
50	18.45	0.0	4.0621	1.0822	0.0602	0.1827	0.0110	0.2896	0.2664		
51	18.79	-0.03	4.0828	1.0812	0.0850	0.2350	0.0130	0.2674	0.2648		
52	19.14	0.03	4.2024	1.2088	0.1163	0.1702	0.0100	0.2935	0.2876		
53	19.50	0.02	4.2823	1.1688	0.0157	0.1980	0.0140	0.2825	0.2729		
54	19.82	-0.01	4.3102	1.2567	-0.1326	0.1276	0.0130	0.3026	0.2916		
55	20.16	-0.01	4.4336	1.3080	0.0779	0.2099	0.0110	0.2952	0.2950		
56	20.51	-0.07	4.5105	1.3453	-0.1284	0.1897	0.0080	0.2984	0.2983		
57	20.85	-0.09	4.6231	1.3376	-0.1450	0.2290	0.0150	0.2940	0.2893		
58	21.20	-0.03	4.6818	1.4155	-0.1218	0.2065	0.0040	0.2800	0.3023		
59	21.57	-0.05	4.8688	1.4836	0.0754	0.1814	0.0090	0.2705	0.3047		
60	21.91	-0.02	4.9134	1.5322	0.1617	0.1356	0.0050	0.2609	0.3118		
61	22.23	-0.03	4.9825	1.5543	0.0232	0.2205	0.0070	0.2516	0.3120		
62	22.54	-0.01	4.9342	1.5749	0.0644	0.1291	0.0070	0.2466	0.3160		
63	22.88	-0.06	5.0666	1.6586	0.0574	0.1266	0.0030	0.2385	0.3274		
64	23.22	-0.03	5.2791	1.7381	0.0824	0.0976	-0.0010	0.2463	0.3292		
65	23.56	-0.03	5.3718	1.7153	0.1273	0.0298	0.0	0.2379	0.3193		
66	23.88	-0.06	5.5209	1.7685	0.0643	0.0320	0.0030	0.2340	0.3203		
67	24.23	-0.07	5.6249	1.8549	0.0231	-0.0173	-0.0090	0.2271	0.3295		
68	24.54	-0.06	5.6498	1.9021	0.0570	0.0602	-0.0090	0.2292	0.3367		
69	24.91	-0.05	5.8731	1.9973	0.0574	0.0806	-0.0090	0.2117	0.3401		
70	25.22	-0.05	5.8840	1.9480	0.1205	0.0483	-0.0100	0.1999	0.3311		
71	25.56	-0.07	5.9974	2.0812	0.0638	-0.0583	-0.0060	0.2000	0.3470		
72	25.87	-0.05	6.0474	2.1582	0.1950	-0.0650	-0.0140	0.1837	0.3569		
73	26.21	-0.07	6.2348	2.2009	-0.0373	0.1422	-0.0150	0.1971	0.3530		
74	26.50	-0.06	6.3158	2.3285	0.0261	0.1124	-0.0260	0.1837	0.3687		
75	26.85	-0.06	6.5236	2.4444	-0.0351	0.2721	-0.0340	0.1741	0.3747		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6	31	0.85	1.7	0.0	82W1F0	15.400	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	LN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.83	0.03	-0.5811	-0.2753	0.0890	0.0054	0.0040	0.1581	0.4737	
2	-2.65	0.03	-0.5364	-0.2889	0.1111	0.0045	0.0040	0.1576	0.5385	
3	-2.04	0.03	-0.4346	-0.2024	0.1337	0.0778	0.0010	0.1611	0.4657	
4	-1.41	0.02	-0.3025	-0.1125	0.1105	0.0263	0.0050	0.1619	0.3719	
5	-0.85	0.03	-0.1454	-0.0704	0.0873	0.0268	0.0010	0.1634	0.4845	
6	-0.30	0.04	-0.0621	-0.0041	0.1538	0.0237	-0.0020	0.1676	0.0654	
7	0.23	0.03	0.0436	0.0400	0.1037	-0.0152	-0.0030	0.1671	0.4165	
8	0.79	0.02	0.1585	0.1061	0.0711	0.0205	0.0060	0.1705	0.6694	
9	1.30	0.02	0.2974	0.1856	0.0781	-0.0423	-0.0010	0.1689	0.6242	
10	1.84	0.04	0.4069	0.2182	0.1596	0.0216	-0.0030	0.1672	0.5361	
11	2.33	0.04	0.5044	0.2787	0.1688	0.0257	0.0020	0.1687	0.5524	
12	2.85	0.02	0.6406	0.3210	0.0724	-0.0294	0.0010	0.1636	0.5010	
13	3.33	0.03	0.7493	0.3918	0.1144	-0.0122	0.0	0.1631	0.5229	
14	3.79	0.02	0.8779	0.4317	0.0663	0.0062	0.0040	0.1606	0.4918	
15	4.28	0.03	1.0021	0.4659	0.1258	0.0829	0.0080	0.1611	0.4649	
16	4.73	0.03	1.0800	0.5048	0.1304	0.0604	0.0060	0.1662	0.4674	
17	5.22	0.04	1.2339	0.5662	0.2237	0.0268	0.0040	0.1656	0.4588	
18	5.67	0.02	1.3368	0.5941	0.0804	-0.0236	0.0240	0.1602	0.4444	
19	6.17	0.02	1.4914	0.6317	0.2060	0.0658	0.0070	0.1592	0.4235	
20	6.63	0.01	1.5734	0.6569	0.1472	0.0189	0.0130	0.1581	0.4175	
21	7.10	0.01	1.7032	0.7071	0.1122	0.0629	0.0120	0.1586	0.4152	
22	7.55	0.01	1.8189	0.7302	0.0727	0.0462	0.0150	0.1605	0.4014	
23	7.96	0.01	1.9823	0.7533	0.1353	0.0586	0.0150	0.1592	0.3800	
24	8.42	0.0	2.0858	0.8144	0.0758	-0.0221	0.0100	0.1568	0.3904	
25	8.87	0.0	2.2062	0.8158	0.0582	0.0205	0.0150	0.1527	0.3698	
26	9.33	0.0	2.2775	0.8810	0.0629	0.0739	0.0120	0.1538	0.3868	
27	9.74	0.01	2.4285	0.9066	0.1232	0.0105	0.0220	0.1468	0.3733	
28	10.17	0.01	2.5706	0.9376	0.1436	0.0710	0.0140	0.1410	0.3648	
29	10.59	0.0	2.6662	0.9398	0.0860	-0.0024	0.0190	0.1376	0.3525	
30	10.98	0.0	2.7608	0.9692	0.0796	0.0506	0.0180	0.1380	0.3511	
31	11.39	0.0	2.9011	0.9958	0.1643	-0.0030	0.0190	0.1304	0.3432	
32	11.76	0.01	3.0017	1.0049	0.1267	0.0446	0.0240	0.1247	0.3348	
33	12.14	0.01	3.1026	1.0417	0.1469	0.0593	0.0230	0.1246	0.3357	
34	12.53	0.0	3.2395	1.0470	0.0737	0.0738	0.0270	0.1198	0.3232	
35	12.92	0.0	3.3485	1.0734	0.0695	0.0477	0.0260	0.1167	0.3206	
36	13.30	0.01	3.4310	1.1059	0.1280	0.0488	0.0280	0.1079	0.3223	
37	13.65	0.0	3.5479	1.1201	0.0725	0.0515	0.0250	0.1065	0.3157	
38	14.04	0.01	3.6628	1.1202	0.1578	0.0711	0.0260	0.0996	0.3058	
39	14.38	0.0	3.7867	1.1188	0.0305	0.0653	0.0290	0.0963	0.2954	
40	14.76	0.0	3.8859	1.1059	0.0957	0.0660	0.0180	0.0932	0.2846	
41	15.09	0.01	3.8831	1.1288	0.0943	0.1480	-0.0380	0.0915	0.2907	
42	15.49	0.0	4.0454	1.1026	0.0656	0.1111	-0.0420	0.0854	0.2726	
43	15.83	-0.01	4.1298	1.1034	-0.0570	0.0938	-0.0410	0.0827	0.2672	
44	16.19	0.0	4.1896	1.1457	0.0473	0.0908	0.0110	0.0839	0.2735	
45	16.52	0.0	4.3252	1.1347	0.0141	0.1312	0.0050	0.0776	0.2624	
46	16.82	0.0	4.4562	1.1003	0.0367	0.0906	0.0110	0.0763	0.2469	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6		31		0.85 1.7		0.0	B2W1F0	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP				
47	17.20	0.0	4.5769	1.1274	0.0950	0.0310	0.0110	0.0700	0.2463				
48	17.55	0.0	4.7205	1.1183	0.1045	0.0497	0.0030	0.0640	0.2369				
49	17.89	0.01	4.8248	1.1253	0.1135	0.0341	0.0070	0.0628	0.2332				
50	18.21	-0.01	4.9520	1.1712	0.0220	0.0072	0.0090	0.0539	0.2365				
51	18.54	0.0	5.0407	1.1509	0.0377	0.0902	0.0110	0.0525	0.2281				
52	18.88	0.01	5.1208	1.1538	0.1092	0.1361	0.0190	0.0457	0.2253				
53	19.25	-0.01	5.2138	1.1666	-0.0110	0.0774	0.0120	0.0427	0.2237				
54	19.58	-0.02	5.3239	1.1844	-0.0285	0.0549	0.0100	0.0369	0.2225				
55	19.90	-0.01	5.4330	1.2117	0.0029	0.0419	0.0030	0.0338	0.2230				
56	20.22	-0.01	5.5179	1.2118	0.0209	0.1357	0.0060	0.0287	0.2196				
57	20.54	-0.01	5.5987	1.1887	0.0034	0.1142	-0.0060	0.0244	0.2123				
58	20.92	0.0	5.6909	1.2006	0.0171	0.1820	-0.0140	0.0189	0.2110				
59	21.26	0.0	5.7243	1.1788	0.0600	0.1120	-0.0450	0.0132	0.2059				
60	21.58	-0.01	5.7441	1.1690	-0.0238	0.1443	-0.1090	0.0164	0.2035				
61	21.88	-0.02	5.7955	1.1710	-0.0370	0.0918	-0.1100	0.0178	0.2021				
62	22.21	-0.02	5.8749	1.2029	0.0437	0.1648	-0.1300	0.0133	0.2047				
63	22.52	-0.01	5.9771	1.2218	0.1043	0.1510	-0.1270	0.0110	0.2044				
64	22.82	-0.01	5.9799	1.2469	0.0861	0.1124	-0.1200	0.0103	0.2085				
65	23.15	-0.03	6.1129	1.2337	0.0374	-0.0004	-0.1280	0.0024	0.2018				
66	23.45	-0.02	6.1931	1.2634	0.0662	0.0893	-0.1020	-0.0009	0.2040				
67	23.79	-0.02	6.3126	1.3261	0.1093	0.0340	-0.1040	-0.0019	0.2101				
68	24.11	-0.02	6.3859	1.3094	0.1047	0.0794	-0.0890	-0.0101	0.2051				
69	24.43	-0.03	6.4960	1.3383	0.0107	0.0520	-0.0760	-0.0156	0.2060				
70	24.76	-0.04	6.4966	1.3275	-0.0233	0.0376	-0.0500	-0.0176	0.2043				
71	25.07	-0.03	6.5834	1.3918	0.0512	0.0493	-0.0660	-0.0224	0.2114				
72	25.41	-0.03	6.7416	1.4273	0.0221	0.0471	-0.0580	-0.0341	0.2117				
73	25.68	-0.04	6.7983	1.4459	0.0268	-0.0385	-0.0600	-0.0304	0.2127				
74	26.00	-0.04	6.8819	1.5809	0.0721	-0.0249	-0.0690	-0.0381	0.2297				
75	26.28	-0.04	7.0194	1.6164	0.0745	-0.0643	-0.0670	-0.0410	0.2303				
76	26.57	-0.04	7.0544	1.7194	0.0950	-0.1190	-0.0700	-0.0488	0.2437				
77	26.87	-0.04	7.1309	1.7362	0.0954	-0.1195	-0.0840	-0.0534	0.2435				
78	27.18	-0.05	7.2221	1.7636	0.0750	-0.1420	-0.0590	-0.0592	0.2442				
79	27.48	-0.04	7.3172	1.9253	0.0982	-0.0815	-0.0870	-0.0635	0.2631				
80	27.81	-0.05	7.4343	1.9413	0.0622	-0.1571	-0.0880	-0.0687	0.2679				
81	28.13	-0.04	7.5337	2.0702	0.1414	-0.2159	-0.0830	-0.0769	0.2748				
82	28.43	-0.05	7.6415	2.1002	0.0920	-0.1488	-0.0820	-0.0878	0.2748				
83	28.75	-0.05	7.6916	2.1141	0.0946	-0.2454	-0.0870	-0.0892	0.2749				
84	29.04	-0.05	7.8186	2.2163	0.0836	-0.1500	-0.0750	-0.0963	0.2835				
85	29.34	-0.04	7.9211	2.3048	0.1338	-0.2263	-0.0840	-0.1074	0.2910				
86	29.64	-0.05	8.0564	2.3292	0.1001	-0.2021	-0.0900	-0.1120	0.2891				
87	29.99	-0.05	8.1328	2.4812	0.1160	-0.2544	-0.0820	-0.1144	0.3051				
88	30.31	-0.05	8.2544	2.60E0	0.1005	-0.3317	-0.0900	-0.1268	0.3159				
89	30.41	-0.06	8.3970	2.6803	0.0325	-0.2515	-0.0910	-0.1297	0.3192				
90	30.12	-0.05	8.3106	2.6073	-0.0039	-0.0555	-0.0890	-0.1178	0.3137				
91	29.82	-0.03	8.2248	2.4734	0.2184	-0.1587	-0.0830	-0.1040	0.3007				
92	29.54	-0.05	8.1257	2.4492	0.1314	-0.1309	-0.0700	-0.0967	0.3014				

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	31	0.85	1.7	0.0	82WIFO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
93	29.24	-0.04	8.0134	2.3145	0.1283	-0.2016	-0.0840	-0.0920	0.2888		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CENF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	32	0.92	1.7	0.0	B2W1FO	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.85	0.02	-0.6385	-0.2599	0.0566	-0.0452	-0.0030	0.1700	0.4071		
2	-2.85	0.03	-0.6298	-0.2721	0.1183	0.0444	0.0020	0.1673	0.4320		
3	-2.45	0.03	-0.5203	-0.2144	0.1248	-0.0287	-0.0010	0.1701	0.4121		
4	-1.81	0.04	-0.3865	-0.1497	0.1682	0.0645	-0.0010	0.1705	0.3874		
5	-1.22	0.03	-0.2590	-0.1184	0.1496	0.0456	0.0	0.1732	0.4571		
6	-0.63	0.0	-0.1106	-0.0362	0.1024	-0.0014	-0.0070	0.1775	0.3269		
7	-0.07	0.03	0.0072	0.0259	0.1397	0.0324	-0.0060	0.1814	3.6000		
8	0.49	0.03	0.1104	0.0604	0.1593	0.0120	-0.0030	0.1799	0.5475		
9	1.01	0.03	0.2372	0.1349	0.1478	0.0011	-0.0060	0.1808	0.5688		
10	1.55	0.03	0.3633	0.1934	0.1421	-0.0149	0.0020	0.1825	0.5323		
11	2.05	0.02	0.4908	0.2297	0.1193	-0.0400	0.0	0.1832	0.4680		
12	2.55	0.03	0.5983	0.2972	0.1407	-0.0100	0.0020	0.1820	0.4907		
13	3.06	0.03	0.7507	0.3378	0.1102	0.0057	-0.0020	0.1807	0.4500		
14	3.53	0.02	0.8413	0.3660	0.1567	0.0426	0.0	0.1798	0.4350		
15	4.04	0.01	0.9430	0.4206	0.1086	-0.0240	0.0070	0.1778	0.4460		
16	4.51	0.01	1.0560	0.4444	0.0974	0.0366	0.0010	0.1762	0.4209		
17	4.98	0.01	1.1626	0.4870	0.1187	0.0438	0.0070	0.1740	0.4189		
18	5.44	0.0	1.3360	0.5213	0.0671	-0.0069	0.0040	0.1766	0.3902		
19	5.94	0.0	1.4841	0.5689	0.0616	0.0957	0.0020	0.1783	0.3833		
20	6.40	0.01	1.5811	0.5991	0.1890	-0.0286	0.0030	0.1793	0.3789		
21	6.89	0.0	1.7863	0.6148	0.0603	0.0076	0.0030	0.1798	0.3442		
22	7.33	0.01	1.8656	0.6238	0.1525	0.0689	0.0150	0.1781	0.3344		
23	7.82	-0.01	1.9967	0.6791	0.0451	-0.0051	0.0130	0.1764	0.3401		
24	8.27	0.0	2.1129	0.6904	0.0743	0.0300	0.0090	0.1736	0.3268		
25	8.70	0.01	2.2076	0.7298	0.1458	0.0269	0.0100	0.1738	0.3306		
26	9.14	0.01	2.3664	0.7625	0.1442	0.0731	0.0170	0.1695	0.3222		
27	9.55	-0.02	2.4731	0.7961	0.0654	0.0304	0.0160	0.1716	0.3219		
28	9.99	-0.01	2.5937	0.8033	0.0849	0.0821	0.0200	0.1691	0.3097		
29	10.42	-0.02	2.7476	0.8417	0.0620	0.0082	0.0240	0.1625	0.3063		
30	10.86	0.0	2.8462	0.8646	0.0444	0.0121	0.0180	0.1645	0.3038		
31	11.28	0.0	2.9586	0.8983	0.0374	0.0886	0.0190	0.1603	0.3029		
32	11.70	0.0	3.0823	0.9031	0.0316	0.0555	0.0170	0.1583	0.2930		
33	12.08	0.0	3.1816	0.9521	0.0300	0.0290	0.0210	0.1543	0.2992		
34	12.45	0.01	3.3003	0.9689	0.1149	0.0621	0.0170	0.1505	0.2936		
35	12.78	-0.01	3.4039	1.0005	0.0191	0.0333	0.0110	0.1457	0.2940		
36	13.17	0.0	3.5074	0.9998	0.0535	0.0265	0.0080	0.1426	0.2851		
37	13.54	-0.01	3.6035	0.9923	0.0004	0.0344	0.0040	0.1412	0.2754		
38	13.95	0.0	3.7187	1.0050	0.0313	0.1122	0.0090	0.1335	0.2703		
39	14.29	0.0	3.8517	1.0058	0.0104	0.0964	0.0080	0.1297	0.2611		
40	14.64	0.0	3.9880	0.9880	0.0473	0.0978	0.0	0.1275	0.2477		
41	15.03	0.01	4.1132	0.9897	0.0660	0.1386	0.0050	0.1168	0.2406		
42	15.41	0.0	4.2022	0.9741	-0.0005	0.1297	0.0090	0.1103	0.2318		
43	15.78	0.01	4.2894	1.0299	0.0652	0.1857	0.0040	0.1034	0.2401		
44	16.10	0.0	4.2945	1.0487	0.0806	-0.0198	0.0100	0.1003	0.2462		
45	16.45	0.01	4.4303	1.0566	0.1156	0.0901	0.0140	0.1044	0.2385		
46	16.81	0.01	4.5606	1.0702	0.0658	0.1429	0.0060	0.1010	0.2347		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
0	32	0.92	1.7	0.0	0.2WIFU	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.17	0.0	4.6489	1.0486	0.0679	0.0429	0.0070	0.1005	0.2256		
48	17.52	0.0	4.7899	1.0622	0.0450	0.1560	0.0070	0.1015	0.2218		
49	17.86	0.01	4.9020	1.0792	0.1261	0.0924	-0.0040	0.1002	0.2202		
50	18.19	0.01	5.0294	1.0857	0.0607	0.1280	0.0040	0.0976	0.2159		
51	18.51	0.0	5.1424	1.1175	0.0515	0.0929	-0.0080	0.0969	0.2173		
52	18.84	-0.01	5.2167	1.1115	-0.0230	0.0992	-0.0120	0.0953	0.2131		
53	19.18	0.0	5.3524	1.1535	0.0462	0.1583	-0.0220	0.0886	0.2155		
54	19.56	0.01	5.4549	1.1830	0.0732	0.1725	-0.0250	0.0861	0.2169		
55	19.89	0.0	5.5361	1.1823	0.0237	0.1848	-0.0300	0.0826	0.2136		
56	20.26	0.0	5.6330	1.2127	0.0028	0.1881	-0.0240	0.0743	0.2153		
57	20.59	-0.01	5.7010	1.2065	0.0162	0.0763	-0.0160	0.0689	0.2116		
58	20.90	-0.01	5.7781	1.2244	-0.0141	0.2077	-0.0170	0.0643	0.2119		
59	21.24	0.0	5.8731	1.2444	0.0298	0.1203	-0.0130	0.0533	0.2119		
60	21.59	-0.01	5.9915	1.2486	0.0128	0.1151	-0.0390	0.0454	0.2084		
61	21.91	-0.02	6.0160	1.2453	-0.0002	0.1713	-0.0260	0.0451	0.2070		
62	22.24	-0.02	6.1205	1.3010	-0.0018	0.1285	-0.0330	0.0406	0.2126		
63	22.58	-0.03	6.2302	1.2654	-0.0665	0.1901	-0.0350	0.0378	0.2031		
64	22.90	-0.02	6.3678	1.3608	0.0695	0.1017	-0.0420	0.0300	0.2137		
65	23.22	-0.03	6.4350	1.3791	0.0240	0.0554	-0.0590	0.0286	0.2142		
66	23.51	-0.05	6.4744	1.3975	-0.0737	0.0092	-0.0420	0.0276	0.2159		
67	23.85	-0.02	6.5751	1.4824	0.1142	0.0701	-0.0560	0.0199	0.2255		
68	24.19	-0.04	6.6356	1.5237	-0.0331	0.0203	-0.0560	0.0162	0.2296		
69	24.54	-0.03	6.7318	1.6530	-0.0058	0.0721	-0.0790	0.0057	0.2436		
70	24.83	-0.04	6.7765	1.6814	-0.0001	-0.0209	-0.0690	0.0058	0.2481		
71	25.13	-0.03	6.8839	1.7840	0.0788	0.0237	-0.0700	-0.0004	0.2592		
72	25.45	-0.04	6.9445	1.7372	0.0560	0.0116	-0.0730	-0.0061	0.2502		
73	25.78	-0.03	7.0575	1.9130	0.1218	-0.0275	-0.0850	-0.0125	0.2711		
74	26.11	-0.05	7.1981	1.9561	0.0236	0.0020	-0.0850	-0.0177	0.2718		
75	26.45	-0.05	7.3013	2.0435	0.0451	-0.0591	-0.0710	-0.0209	0.2799		
76	26.73	-0.05	7.3591	2.1186	0.0222	0.0469	-0.0760	-0.0241	0.2879		
77	27.01	-0.04	7.4815	2.1072	0.0764	-0.0939	-0.0800	-0.0319	0.2817		
78	27.31	-0.06	7.5552	2.1900	-0.0101	-0.0579	-0.0780	-0.0331	0.2899		
79	27.62	-0.06	7.6918	2.2608	-0.0214	-0.1040	-0.0800	-0.0365	0.2939		
80	27.94	-0.05	7.7637	2.3831	0.0251	-0.0941	-0.0950	-0.0417	0.3070		
81	28.27	-0.07	7.9724	2.4679	-0.0362	-0.0923	-0.0920	-0.0499	0.3096		
82	28.57	-0.05	8.0361	2.5386	0.0121	-0.0589	-0.0970	-0.0551	0.3159		
83	28.87	-0.05	8.1589	2.5487	0.0026	-0.0626	-0.0890	-0.0602	0.3124		
84	29.17	-0.05	8.2345	2.6668	0.0337	-0.0912	-0.1020	-0.0666	0.3239		
85	29.52	-0.06	8.3477	2.7883	-0.0294	-0.0178	-0.1040	-0.0692	0.3340		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	33	0.97	1.7	0.0	B2M1+0	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.87	0.06	-0.6515	-0.2927	0.1204	0.1564	-0.0050	0.2585	0.4493		
2	-2.52	0.06	-0.5883	-0.2162	0.2100	-0.0220	-0.0010	0.2591	0.3675		
3	-1.91	0.02	-0.4551	-0.2097	0.1212	0.0853	0.0010	0.2522	0.4607		
4	-1.29	0.04	-0.2315	-0.0999	0.2564	-0.0210	-0.0000	0.2604	0.4315		
5	-0.75	0.0	-0.1985	-0.0721	0.0116	0.1157	0.0020	0.2653	0.3632		
6	-0.16	-0.04	-0.0214	-0.0110	0.2661	-0.0485	0.0030	0.2704	0.5159		
7	0.38	-0.05	0.0664	0.0450	0.0816	0.0288	-0.0040	0.2713	0.6783		
8	0.94	0.04	0.1797	0.1164	0.0132	0.0495	0.0010	0.2794	0.6479		
9	1.44	0.04	0.2633	0.1444	0.2016	0.0118	0.0040	0.2809	0.5483		
10	2.01	0.01	0.4609	0.2176	0.1350	-0.0480	0.0	0.2751	0.4720		
11	2.50	0.02	0.5440	0.2812	0.0584	0.0592	-0.0010	0.2713	0.5169		
12	3.01	0.02	0.7458	0.3277	0.2108	0.0549	0.0050	0.2740	0.4394		
13	3.50	0.01	0.6139	0.3814	0.2294	0.0048	0.0030	0.2737	0.4686		
14	3.96	-0.02	0.9457	0.4198	0.0591	0.0812	0.0020	0.2699	0.4439		
15	4.45	0.02	1.0606	0.4280	0.1462	0.0713	0.0070	0.2728	0.4035		
16	4.91	0.01	1.1508	0.4985	0.2725	0.0365	0.0020	0.2677	0.4332		
17	5.40	0.03	1.2943	0.5226	0.2116	0.0408	-0.0080	0.2659	0.4038		
18	5.88	0.07	1.4116	0.5694	-0.1560	0.2324	0.0030	0.2730	0.4034		
19	6.34	0.02	1.5848	0.5979	0.1662	-0.0137	0.0130	0.2770	0.3773		
20	6.81	-0.03	1.6343	0.6056	0.1878	0.0411	0.0130	0.2805	0.3706		
21	7.28	0.0	1.7798	0.6659	0.0724	0.1286	0.0130	0.2827	0.3742		
22	7.76	-0.02	1.8461	0.6851	0.0777	0.1112	0.0110	0.2808	0.3613		
23	8.23	0.0	2.0312	0.7168	0.1595	0.0747	0.0150	0.2817	0.3529		
24	8.67	0.05	2.1406	0.7526	0.1001	0.0639	0.0170	0.2807	0.3516		
25	9.11	0.04	2.3019	0.7858	0.1310	0.0886	0.0130	0.2747	0.3414		
26	9.52	0.02	2.3875	0.8080	0.1616	0.0758	0.0190	0.2761	0.3384		
27	9.95	-0.03	2.5458	0.8484	0.1127	0.0462	0.0120	0.2657	0.3332		
28	10.41	-0.02	2.6740	0.8397	0.2078	0.0101	0.0190	0.2523	0.3140		
29	10.83	0.02	2.8532	0.8539	0.0285	0.1261	0.0120	0.2364	0.2993		
30	11.25	-0.04	2.9423	0.8911	0.0203	0.1386	0.0070	0.2302	0.3029		
31	11.69	0.0	3.1044	0.9152	0.0185	0.1245	0.0100	0.2294	0.2948		
32	12.07	0.02	3.1846	0.9289	0.0065	0.1453	0.0200	0.2255	0.2917		
33	12.46	0.02	3.2447	0.9207	-0.0133	0.0856	0.0140	0.2141	0.2838		
34	12.81	0.01	3.4100	0.9133	0.0882	0.1135	0.0050	0.2116	0.2678		
35	13.17	0.0	3.5584	0.9304	0.0524	0.0676	0.0110	0.2054	0.2615		
36	13.54	0.01	3.6540	0.9046	0.0817	0.0456	0.0150	0.2012	0.2476		
37	13.97	0.02	3.7236	0.9131	0.1266	0.1607	0.0080	0.1974	0.2452		
38	14.32	0.0	3.9293	0.9352	-0.0172	0.1151	0.0080	0.1954	0.2380		
39	14.69	0.02	4.0513	0.9524	0.0602	0.1347	0.0100	0.1952	0.2351		
40	15.03	-0.01	4.1764	0.9512	-0.0372	0.1101	0.0050	0.1891	0.2278		
41	15.46	0.0	4.2678	0.9721	0.0606	0.1431	0.0150	0.1952	0.2278		
42	15.84	0.02	4.4061	0.9585	-0.0145	0.2053	0.0060	0.1780	0.2175		
43	16.19	0.0	4.5123	0.9828	0.0199	0.2031	0.0120	0.1855	0.2178		
44	16.56	-0.01	4.6552	0.9898	0.1302	0.1097	0.0050	0.1773	0.2126		
45	16.89	0.03	4.7745	0.9947	0.0892	0.0351	0.0070	0.1675	0.2000		
46	17.24	0.0	4.9100	0.9800	0.0585	0.0781	0.0060	0.1631	0.1996		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	33	0.97	1.7	0.0	82WFO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.57	0.0	4.9197	0.9985	0.0225	0.1235	0.0070	0.1657	0.2030		
48	17.93	0.01	5.0624	1.0271	0.0760	0.1066	0.0140	0.1575	0.2027		
49	18.27	0.01	5.2339	1.0494	0.0455	0.1433	0.0040	0.1527	0.2005		
50	18.61	0.01	5.3168	1.0944	0.0749	0.2001	0.0080	0.1479	0.2058		
51	18.96	0.01	5.4916	1.1436	0.0856	0.1371	0.0040	0.1491	0.2083		
52	19.29	0.0	5.5792	1.1690	0.1221	0.0411	-0.0060	0.1433	0.2095		
53	19.63	-0.03	5.6298	1.1741	-0.1550	0.1510	0.0010	0.1353	0.2086		
54	19.95	0.01	5.6738	1.1845	0.0568	0.1995	0.0010	0.1334	0.2088		
55	20.31	-0.01	5.7878	1.3538	0.0331	0.2716	-0.0180	0.1229	0.2339		
56	20.64	-0.01	5.9139	1.2993	-0.0220	0.0848	-0.0010	0.1265	0.2197		
57	20.97	-0.02	5.9372	1.3996	0.0077	0.2312	-0.0280	0.1088	0.2357		
58	21.31	-0.03	6.0556	1.4279	-0.0609	0.1672	-0.0360	0.1033	0.2358		
59	21.68	-0.01	6.1439	1.4482	0.0877	0.1692	-0.0350	0.0955	0.2357		
60	22.02	-0.04	6.2639	1.5402	-0.1421	0.2279	-0.0120	0.0828	0.2459		
61	22.36	-0.01	6.3077	1.5785	-0.0213	0.1808	-0.0090	0.0811	0.2503		
62	22.70	-0.02	6.4714	1.6927	0.0685	0.1195	-0.0050	0.0704	0.2616		
63	23.01	-0.01	6.5722	1.7594	0.0882	0.1335	-0.0170	0.0691	0.2677		
64	23.34	-0.01	6.6522	1.8014	0.0755	0.1477	-0.0030	0.0632	0.2708		
65	23.69	0.0	6.8543	1.8955	0.1751	0.0529	-0.0020	0.0583	0.2771		
66	24.03	-0.01	6.8736	1.9164	0.1245	0.0341	-0.0020	0.0543	0.2788		
67	24.36	-0.04	6.9802	2.0022	-0.0443	0.0910	-0.0020	0.0528	0.2868		
68	24.68	-0.01	7.1424	2.1641	0.1237	0.0228	-0.0060	0.0416	0.3030		
69	24.98	0.0	7.1477	2.1827	0.1827	0.0672	-0.0080	0.0397	0.3054		
70	25.33	-0.06	7.2007	2.1995	-0.0527	0.0568	0.0010	0.0354	0.3055		
71	25.68	-0.06	7.4047	2.3577	-0.0383	-0.0014	-0.0140	0.0302	0.3184		
72	25.99	-0.01	7.4612	2.3846	0.1663	-0.0378	-0.0250	0.0179	0.3196		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	34	1.01	1.7	0.0	B2W1FO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.87	0.03	-0.6330	-0.2726	0.1946	0.0935	-0.0050	0.2840	0.4307		
2	-2.64	0.05	-0.6175	-0.2553	0.2326	0.1003	-0.0010	0.2864	0.4135		
3	-2.03	0.01	-0.4473	-0.1946	0.0738	0.0427	-0.0010	0.2888	0.4350		
4	-1.40	0.01	-0.3333	-0.1334	0.1289	0.0205	0.0010	0.2972	0.4002		
5	-0.84	0.03	-0.1854	-0.0674	0.1250	0.0400	-0.0040	0.3020	0.3638		
6	-0.28	0.03	-0.0728	-0.0141	0.0812	0.0923	0.0010	0.3132	0.1934		
7	0.26	0.04	0.0648	0.0443	0.1556	-0.0088	-0.0010	0.3205	0.6833		
8	0.84	0.04	0.1964	0.1150	0.1918	-0.0075	0.0010	0.3178	0.5857		
9	1.34	0.06	0.2928	0.1621	0.1328	0.1061	0.0060	0.3204	0.5536		
10	1.88	0.02	0.4409	0.2506	0.0396	0.0296	0.0020	0.3184	0.5683		
11	2.40	0.04	0.5393	0.2898	0.1577	0.0332	0.0090	0.3215	0.5373		
12	2.89	0.03	0.6990	0.3412	0.1385	-0.0129	0.0	0.3148	0.4881		
13	3.40	0.03	0.8090	0.3722	0.1386	-0.0430	0.0050	0.3069	0.4601		
14	3.89	0.04	0.9486	0.4348	0.0324	0.0326	0.0060	0.3092	0.4583		
15	4.38	0.02	1.0705	0.4561	0.1557	0.0160	0.0060	0.2938	0.4261		
16	4.84	0.01	1.1989	0.5012	0.0806	0.0742	0.0050	0.2938	0.4180		
17	5.34	0.08	1.3555	0.5579	0.2080	0.0128	-0.0010	0.2843	0.4116		
18	5.81	0.0	1.4742	0.5868	0.0501	-0.0221	0.0020	0.2864	0.3980		
19	6.29	0.02	1.5962	0.6260	0.1691	-0.0017	0.0020	0.2897	0.3922		
20	6.75	0.05	1.7073	0.6684	0.0737	0.0788	0.0070	0.2977	0.3915		
21	7.22	0.0	1.8188	0.6863	0.0823	-0.0492	0.0110	0.3080	0.3774		
22	7.70	0.06	1.9297	0.7489	0.2444	0.1218	0.0050	0.3155	0.3801		
23	8.13	0.03	2.0663	0.7657	0.1818	0.0715	0.0110	0.3228	0.3705		
24	8.62	-0.04	2.1959	0.8082	-0.0227	0.0468	0.0150	0.3199	0.3631		
25	9.07	0.02	2.2996	0.8590	0.1156	0.1051	0.0080	0.3177	0.3736		
26	9.51	-0.04	2.4321	0.9115	0.1252	0.0767	0.0220	0.3078	0.3748		
27	9.93	0.10	2.5468	0.9159	0.0026	0.1503	0.0120	0.3039	0.3596		
28	10.38	0.11	2.6249	0.9256	0.2027	0.1912	0.0130	0.2943	0.3526		
29	10.76	0.04	2.7065	0.9482	0.0406	-0.0058	0.0150	0.2910	0.3503		
30	11.21	0.04	2.8787	0.9941	0.1099	0.1901	0.0120	0.2711	0.3453		
31	11.61	-0.01	2.9893	0.9803	-0.0541	0.1087	0.0170	0.2468	0.3279		
32	12.01	0.04	3.1153	0.9969	0.0862	0.0633	0.0170	0.2280	0.3200		
33	12.42	0.0	3.3121	1.0264	0.0371	0.1370	0.0160	0.2218	0.3099		
34	12.78	0.0	3.3781	1.0260	0.0057	0.1600	0.0220	0.2365	0.3037		
35	13.14	0.01	3.5274	1.0358	0.0293	0.1200	0.0100	0.2422	0.2936		
36	13.53	0.0	3.6542	1.0843	0.0030	0.0808	0.0130	0.2458	0.2967		
37	13.93	0.03	3.7626	1.1345	0.1303	0.1566	0.0050	0.2614	0.3015		
38	14.31	0.03	3.8853	1.1567	0.0445	0.1587	0.0120	0.2574	0.2977		
39	14.72	-0.01	4.0469	1.1105	-0.0857	0.2529	0.0170	0.2641	0.2744		
40	15.01	-0.01	4.1279	1.1051	0.0187	0.0078	0.0110	0.2643	0.2677		
41	15.42	0.01	4.2609	1.1188	0.0223	0.2467	0.0060	0.2622	0.2626		
42	15.83	0.03	4.3914	1.1271	0.1863	0.1942	0.0130	0.2521	0.2566		
43	16.17	0.0	4.4747	1.1654	0.0308	0.0709	0.0030	0.2487	0.2604		
44	16.52	0.0	4.6223	1.1928	0.0195	0.0437	0.0140	0.2290	0.2581		
45	16.83	0.02	4.6466	1.1528	0.1203	0.0576	0.0130	0.2276	0.2481		
46	17.18	-0.01	4.7675	1.1395	-0.0597	0.0536	0.0150	0.2095	0.2390		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	34	1.01	1.7	0.0	B2W1FU	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.54	0.0	4.9308	1.1649	-0.0011	0.1555	0.0160	0.1867	0.2362		
48	17.89	0.02	5.0435	1.2100	0.0956	0.1601	0.0090	0.1675	0.2399		
49	18.23	0.01	5.1524	1.2445	0.1155	0.0413	0.0150	0.1649	0.2425		
50	18.58	-0.02	5.2416	1.2776	-0.0655	0.0103	0.0110	0.1705	0.2437		
51	18.95	0.0	5.4453	1.3534	0.0278	0.1341	0.0070	0.1799	0.2485		
52	19.30	0.03	5.5332	1.3294	0.1755	0.1663	0.0030	0.1863	0.2403		
53	19.65	0.03	5.6426	1.3832	0.1691	0.1542	0.0070	0.2062	0.2451		
54	20.01	0.0	5.7352	1.4564	0.1201	0.1438	0.0010	0.2156	0.2539		
55	20.34	-0.02	5.8543	1.5027	-0.0074	0.2273	0.0100	0.2213	0.2567		
56	20.66	-0.02	5.8713	1.4879	0.0073	0.2158	0.0100	0.1897	0.2534		
57	21.03	0.01	6.0117	1.4353	0.0525	0.1195	0.0010	0.1648	0.2388		
58	21.39	0.0	6.1527	1.5349	-0.0426	0.2556	0.0050	0.1537	0.2495		
59	21.73	-0.02	6.1676	1.5450	-0.0475	0.0965	0.0070	0.1308	0.2505		
60	22.07	-0.01	6.2903	1.6053	-0.0083	0.1316	0.0070	0.1146	0.2552		
61	22.42	-0.01	6.3768	1.7421	-0.0163	0.1428	0.0060	0.0874	0.2732		
62	22.78	-0.03	6.5812	1.8588	-0.0423	0.1702	0.0110	0.0901	0.2824		
63	23.11	0.0	6.6769	1.8478	0.1174	0.1356	-0.0020	0.0929	0.2767		
64	23.42	-0.01	6.7852	1.9002	0.0912	0.0933	-0.0010	0.1161	0.2801		
65	23.72	-0.02	6.9780	1.9763	0.0145	0.1457	-0.0080	0.1364	0.2832		
66	24.05	-0.04	7.0360	1.9321	-0.0542	0.0439	-0.0040	0.1446	0.2746		
67	24.43	-0.01	7.2205	1.9728	0.1394	0.0168	-0.0110	0.1493	0.2732		
68	24.74	-0.01	7.2858	1.9722	0.1228	0.0721	-0.0050	0.1709	0.2707		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	35	1.05	1.7	0.0	82W1F0	15.400	UFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.79	0.04	-0.6089	-0.2674	0.2472	0.0409	-0.0010	0.3433	0.4391	
2	-2.49	0.01	-0.5926	-0.2812	0.2376	0.0024	0.0040	0.3444	0.4745	
3	-1.86	0.02	-0.4216	-0.2046	0.1394	0.0568	-0.0020	0.3385	0.4852	
4	-1.29	0.02	-0.2933	-0.1294	0.1515	0.0289	-0.0030	0.3588	0.4411	
5	-0.70	0.03	-0.1594	-0.0558	0.1332	0.0345	-0.0020	0.3633	0.3503	
6	-0.15	0.01	-0.0225	0.0025	0.0572	0.0299	-0.0020	0.3659	-0.1111	
7	0.39	0.03	0.0873	0.0698	0.1710	0.0276	0.0	0.3748	0.7993	
8	0.96	0.02	0.2263	0.1472	0.1724	-0.0094	-0.0040	0.3774	0.6504	
9	1.48	0.04	0.3274	0.1586	0.2203	0.0676	0.0020	0.3755	0.4845	
10	2.03	0.01	0.4882	0.1884	0.0657	-0.0140	0.0080	0.3596	0.3858	
11	2.54	0.02	0.6390	0.2782	0.1706	0.0022	0.0030	0.3503	0.4354	
12	3.04	0.03	0.7694	0.2837	0.1592	0.1301	0.0070	0.3547	0.3687	
13	3.51	0.01	0.8365	0.3437	0.0930	0.0118	0.0020	0.3604	0.4109	
14	4.01	0.03	0.9748	0.4071	0.1487	-0.0142	-0.0010	0.3557	0.4176	
15	4.50	0.01	1.1116	0.4456	0.1458	-0.0141	0.0040	0.3629	0.4008	
16	4.98	0.03	1.2053	0.4862	0.1909	0.0737	0.0020	0.3678	0.4034	
17	5.45	0.02	1.3456	0.5098	0.1166	0.0857	0.0140	0.3658	0.3789	
18	5.94	0.01	1.4513	0.5228	0.0486	0.0949	0.0110	0.3612	0.3602	
19	6.43	-0.01	1.6126	0.5740	0.1400	-0.0160	0.0090	0.3682	0.3560	
20	6.87	0.0	1.6944	0.5917	-0.0065	0.1121	0.0050	0.3672	0.3488	
21	7.35	0.0	1.8095	0.5793	0.1198	0.1363	0.0130	0.3538	0.3202	
22	7.83	0.03	1.9881	0.6362	0.2131	0.1216	0.0020	0.3489	0.3200	
23	8.28	0.0	2.1069	0.6578	0.1527	0.0972	0.0080	0.3512	0.3122	
24	8.71	0.0	2.2374	0.7051	0.0249	0.0051	0.0050	0.3473	0.3152	
25	9.15	0.07	2.3546	0.7210	0.1326	0.0903	0.0060	0.3555	0.3062	
26	9.57	-0.02	2.4651	0.7493	0.1872	-0.0031	0.0120	0.3513	0.3040	
27	9.98	0.06	2.5562	0.7898	0.0462	0.0423	0.0180	0.3510	0.3090	
28	10.42	0.06	2.6522	0.8124	0.1105	0.0093	0.0180	0.3499	0.3063	
29	10.83	0.06	2.7803	0.8539	-0.0605	0.1867	0.0180	0.3475	0.3071	
30	11.28	0.07	2.8974	0.8490	0.1614	0.0413	0.0210	0.3535	0.2930	
31	11.71	0.04	3.0763	0.9215	0.0519	0.1663	0.0140	0.3569	0.2995	
32	12.10	-0.02	3.1131	0.9180	0.0439	0.1525	0.0200	0.3536	0.2949	
33	12.52	0.0	3.2377	0.9315	0.0745	0.1117	0.0160	0.3478	0.2877	
34	12.92	0.0	3.3786	0.9453	0.0267	0.0426	0.0210	0.3368	0.2798	
35	13.24	-0.01	3.5075	0.9827	-0.0303	0.1054	0.0160	0.3272	0.2802	
36	13.59	0.02	3.6127	0.9444	0.0542	0.1621	0.0150	0.3238	0.2614	
37	14.04	0.02	3.7112	1.0425	-0.0234	0.1707	0.0090	0.3022	0.2809	
38	14.38	-0.01	3.7979	1.0591	0.0066	0.0143	0.0150	0.2872	0.2789	
39	14.75	0.03	3.9256	1.0803	0.1685	0.1431	0.0180	0.2743	0.2752	
40	15.09	0.01	4.0632	1.1047	0.0538	0.1517	0.0150	0.2645	0.2719	
41	15.50	0.01	4.1729	1.0851	0.0220	0.1942	0.0160	0.2562	0.2600	
42	15.89	0.0	4.2594	1.0979	0.0237	0.0958	0.0170	0.2463	0.2577	
43	16.25	0.0	4.4422	1.1359	-0.0224	0.0614	0.0150	0.2471	0.2557	
44	16.62	0.02	4.5881	1.1387	0.0839	0.2485	0.0150	0.2684	0.2442	
45	16.93	0.0	4.6325	1.1595	0.0052	0.1937	0.0170	0.2889	0.2503	
46	17.29	0.01	4.7957	1.1750	0.1162	0.1443	0.0100	0.2974	0.2450	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	35.1	0.05	1.7	0.0	B2W1FO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.64	0.04	4.9424	1.1457	0.2251	0.0998	0.0090	0.3000	0.2318		
48	17.99	0.01	5.0243	1.1958	0.1260	0.0246	0.0010	0.2964	0.2380		
49	18.32	0.02	5.1565	1.2038	0.1212	0.1063	0.0060	0.2814	0.2334		
50	18.65	-0.01	5.2430	1.2667	0.0002	0.1117	0.0050	0.2693	0.2416		
51	19.01	0.01	5.3290	1.3352	0.0274	0.1186	0.0080	0.2614	0.2506		
52	19.34	-0.01	5.3628	1.3499	-0.0331	0.1563	0.0070	0.2470	0.2517		
53	19.69	0.01	5.5046	1.4114	0.0533	0.1354	0.0070	0.2312	0.2564		
54	20.07	0.0	5.6735	1.4579	0.0313	0.1632	0.0060	0.2290	0.2570		
55	20.40	0.0	5.7292	1.4490	0.0745	0.1037	0.0080	0.2224	0.2529		
56	20.74	0.01	5.8306	1.4649	0.0763	0.0482	0.0070	0.2172	0.2512		
57	21.11	-0.01	5.9338	1.5554	0.0175	0.1875	0.0	0.2198	0.2621		
58	21.46	-0.01	6.0466	1.5504	-0.0142	0.1799	-0.0010	0.2299	0.2564		
59	21.84	0.0	6.1872	1.5526	0.0098	0.1183	0.0080	0.2207	0.2509		
60	22.18	0.01	6.2911	1.6091	0.0707	0.1580	0.0100	0.2096	0.2558		
61	22.49	-0.01	6.3328	1.6277	-0.0281	0.1463	0.0060	0.2039	0.2570		
62	22.83	-0.03	6.4845	1.7154	-0.0391	0.1237	0.0060	0.1999	0.2645		
63	23.13	-0.02	6.6014	1.8165	0.0170	0.1862	0.0040	0.1767	0.2752		
64	23.47	0.01	6.7005	1.8298	0.0603	0.1916	0.0020	0.1587	0.2731		
65	23.83	-0.02	6.8416	1.8863	0.0015	0.1695	0.0020	0.1539	0.2757		
66	24.16	-0.01	6.9839	1.9330	0.1251	0.1048	-0.0010	0.1806	0.2768		
67	24.49	-0.01	7.1883	2.0139	0.0854	0.0254	0.0	0.1645	0.2802		
68	24.84	0.0	7.3332	1.9489	0.1031	-0.0393	-0.0090	0.2027	0.2658		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	36	1.10	1.7	0.0	0.2W1FO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
1	-2.87	-0.02	-0.0179	-0.2478	0.0602	0.0967	0.0040	0.3654	0.4010		
2	-2.68	0.0	-0.5982	-0.2234	0.0006	0.1701	0.0040	0.3640	0.3734		
3	-2.04	0.03	-0.4399	-0.1690	0.1671	0.1100	0.0	0.3642	0.3841		
4	-1.44	0.04	-0.3220	-0.1132	0.2550	0.0190	0.0020	0.3637	0.3516		
5	-0.83	0.02	-0.1790	-0.0634	0.0966	0.0547	0.0040	0.3636	0.3542		
6	-0.29	0.05	-0.0633	-0.0124	0.2015	0.0639	0.0110	0.3533	0.1956		
7	0.28	0.02	0.0581	0.0557	0.1439	0.0645	0.0030	0.3558	0.9580		
8	0.82	0.01	0.1881	0.0806	0.0904	0.0574	0.0060	0.3405	0.4288		
9	1.37	0.02	0.3053	0.1716	0.0985	0.0971	0.0030	0.3534	0.5620		
10	1.90	0.02	0.4428	0.2269	0.1509	0.0197	0.0080	0.3471	0.5124		
11	2.39	0.02	0.5793	0.2388	0.0990	0.1804	0.0110	0.3440	0.4122		
12	2.91	0.02	0.6757	0.3048	0.1976	-0.0176	0.0070	0.3463	0.4511		
13	3.40	0.03	0.8598	0.3341	0.3334	-0.0468	0.0060	0.3485	0.3886		
14	3.91	-0.01	0.9605	0.3791	0.0952	0.0677	0.0080	0.3529	0.3947		
15	4.38	0.01	1.0736	0.4288	0.0877	0.0862	0.0090	0.3512	0.3994		
16	4.87	0.03	1.1766	0.4704	0.3479	0.0819	0.0090	0.3605	0.3998		
17	5.34	0.02	1.3243	0.4836	0.1465	0.0579	0.0130	0.3606	0.3652		
18	5.84	0.03	1.4519	0.5550	0.1838	0.0727	0.0050	0.3770	0.3822		
19	6.28	0.05	1.5152	0.5514	0.0562	0.1563	0.0090	0.3839	0.3639		
20	6.78	0.04	1.7127	0.6269	0.1118	0.0545	0.0110	0.3944	0.3660		
21	7.26	-0.01	1.8278	0.6557	0.0814	0.1040	0.0060	0.3943	0.3588		
22	7.72	0.02	1.9453	0.6921	0.0923	0.0588	0.0090	0.3901	0.3558		
23	8.18	0.05	2.0488	0.7222	0.1262	0.1413	0.0130	0.3917	0.3525		
24	8.63	-0.04	2.2140	0.7489	0.0238	0.1357	0.0130	0.3911	0.3382		
25	9.11	0.06	2.2769	0.7558	0.3476	0.0674	0.0120	0.3954	0.3320		
26	9.52	-0.05	2.3940	0.7789	0.1024	0.1136	0.0100	0.3783	0.3253		
27	9.97	-0.02	2.5151	0.8003	0.2268	0.0375	0.0160	0.3629	0.3182		
28	10.40	0.03	2.6257	0.8495	0.0552	0.0647	0.0120	0.3801	0.3235		
29	10.82	-0.04	2.7369	0.8677	0.1705	0.1023	0.0200	0.3701	0.3170		
30	11.23	0.02	2.8504	0.9128	0.0342	0.2521	0.0170	0.3753	0.3202		
31	11.60	0.02	2.9876	0.9167	0.0864	0.1440	0.0190	0.3457	0.3068		
32	12.03	-0.01	2.9791	0.9346	-0.0555	0.1892	0.0180	0.3490	0.3137		
33	12.43	0.02	3.1898	0.9696	0.1299	0.1311	0.0180	0.3590	0.3040		
34	12.84	0.05	3.2873	0.9781	0.1393	0.2459	0.0160	0.3625	0.2975		
35	13.17	0.03	3.4353	0.9899	0.0337	0.2108	0.0210	0.3670	0.2882		
36	13.54	0.0	3.5257	1.0202	-0.0435	0.1504	0.0080	0.3541	0.2894		
37	13.97	0.02	3.7197	1.0206	0.1246	0.1375	0.0130	0.3623	0.2744		
38	14.36	0.0	3.7660	1.0318	0.0435	0.0521	0.0170	0.3665	0.2740		
39	14.70	0.01	3.8351	1.0770	0.0283	0.2194	0.0160	0.3641	0.2808		
40	15.04	0.01	3.9639	1.0377	0.0331	0.1486	0.0180	0.3506	0.2618		
41	15.45	0.02	4.1052	1.0909	0.0698	0.2143	0.0180	0.3474	0.2657		
42	15.85	0.0	4.2246	1.0576	0.0213	0.1592	0.0190	0.3430	0.2503		
43	16.21	0.01	4.2625	1.0695	0.1142	0.0241	0.0220	0.3388	0.2509		
44	16.56	0.02	4.4232	1.0385	0.1160	0.1596	0.0200	0.3275	0.2348		
45	16.90	0.02	4.4853	1.0686	0.0051	0.1488	0.0190	0.3228	0.2382		
46	17.28	0.0	4.6707	1.1410	0.1363	0.1372	0.0170	0.3186	0.2443		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	36	1.10	1.7	0.0	B2WFO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.62	-0.01	4.7780	1.1478	0.1077	0.1672	0.0110	0.3091	0.2402		
48	17.97	0.01	4.8633	1.2094	0.2053	0.1326	0.0110	0.3185	0.2487		
49	18.31	-0.01	5.0170	1.1961	-0.0119	0.0387	0.0080	0.3038	0.2384		
50	18.62	0.03	5.0495	1.1376	0.1719	0.1393	0.0100	0.2869	0.2253		
51	19.01	0.0	5.2193	1.2168	0.0507	-0.0270	0.0100	0.2893	0.2331		
52	19.33	0.0	5.3027	1.2461	0.0058	0.2648	0.0110	0.2813	0.2350		
53	19.71	0.0	5.4554	1.2413	0.0177	0.2292	0.0070	0.2685	0.2275		
54	20.03	0.0	5.4811	1.2993	-0.0399	0.1208	0.0090	0.2788	0.2371		
55	20.37	0.0	5.5643	1.2988	0.0452	0.0907	0.0100	0.2852	0.2334		
56	20.70	0.04	5.6961	1.3993	0.1391	0.2302	0.0120	0.2832	0.2457		
57	21.08	0.0	5.7937	1.5035	0.0697	0.3174	0.0040	0.2937	0.2595		
58	21.40	0.0	5.8376	1.5210	-0.0148	0.2047	0.0080	0.2806	0.2606		
59	21.78	-0.02	6.0053	1.6342	-0.0236	0.1780	0.0100	0.2570	0.2721		
60	22.10	-0.02	6.0603	1.6482	0.0626	0.1453	0.0010	0.2643	0.2720		
61	22.44	-0.03	6.1191	1.6779	0.0175	0.0725	-0.0040	0.2474	0.2742		
62	22.82	-0.03	6.3489	1.8302	0.0616	0.1297	0.0010	0.2333	0.2883		
63	23.16	-0.02	6.4202	1.8584	0.0829	0.0819	-0.0060	0.2390	0.2895		
64	23.50	-0.03	6.5186	1.8844	0.0680	0.0568	-0.0040	0.2250	0.2891		
65	23.79	-0.02	6.5956	1.8970	0.0938	0.0367	-0.0030	0.2213	0.2874		
66	24.12	-0.03	6.7109	1.9182	0.0685	0.0811	-0.0090	0.2068	0.2858		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	37	0.85	1.7	0.0	82W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.79	0.02	-0.2518	-0.3224	-0.0213	0.0478	0.0010	0.1314	1.2807		
2	-2.80	0.03	-0.2688	-0.3456	0.0084	0.1042	0.0010	0.1299	1.2860		
3	-2.56	0.03	-0.2247	-0.2994	0.0841	0.0093	0.0010	0.1270	1.3325		
4	-1.96	0.01	-0.1701	-0.2364	0.1145	0.0077	0.0010	0.1256	1.3428		
5	-1.38	0.0	-0.1124	-0.1466	0.0186	0.0340	0.0	0.1291	1.3046		
6	-0.79	0.01	-0.0770	-0.0932	0.0470	0.0622	0.0	0.1309	1.2104		
7	-0.25	0.01	-0.0271	-0.0171	0.0454	0.0834	0.0	0.1334	0.6295		
8	0.30	0.01	0.0309	0.0397	0.0436	0.0839	0.0010	0.1337	1.2861		
9	0.82	0.01	0.0885	0.1341	0.0266	0.0628	0.0010	0.1361	1.5153		
10	1.34	0.02	0.1287	0.1918	0.0395	0.0337	0.0020	0.1404	1.4904		
11	1.85	0.03	0.2007	0.2700	0.1191	0.1362	0.0010	0.1389	1.3454		
12	2.33	0.01	0.2341	0.3262	0.0783	0.0614	0.0030	0.1392	1.3937		
13	2.83	0.01	0.2982	0.3995	0.0696	0.0811	0.0020	0.1383	1.3398		
14	3.31	0.01	0.3412	0.4653	0.0475	0.0289	0.0040	0.1357	1.3638		
15	3.80	0.02	0.3915	0.5137	0.1264	0.1160	0.0020	0.1338	1.3120		
16	4.23	0.01	0.4670	0.5830	0.0341	0.0613	0.0030	0.1357	1.2483		
17	4.70	0.01	0.4810	0.6194	0.0545	0.0587	0.0030	0.1373	1.2876		
18	5.16	-0.01	0.5516	0.6795	0.0408	0.0359	0.0040	0.1414	1.2319		
19	5.64	-0.01	0.6128	0.7058	0.0453	0.0876	0.0040	0.1413	1.1518		
20	6.10	-0.01	0.6841	0.7410	0.0694	0.0308	0.0040	0.1428	1.0832		
21	6.56	-0.01	0.7460	0.7934	0.0177	0.0262	0.0050	0.1467	1.0635		
22	7.02	-0.01	0.7977	0.8410	0.0394	-0.0342	0.0060	0.1462	1.0542		
23	7.49	0.01	0.8533	0.8621	0.1457	0.1350	0.0060	0.1533	1.0104		
24	7.92	-0.01	0.9177	0.9260	0.0483	0.0474	0.0070	0.1583	1.0090		
25	8.36	-0.02	1.0004	0.9552	-0.0141	-0.0203	0.0080	0.1553	0.9548		
26	8.82	-0.02	1.0452	0.9775	0.0011	0.0015	0.0090	0.1513	0.9352		
27	9.22	-0.03	1.1281	1.0094	-0.0376	-0.0883	0.0100	0.1478	0.8948		
28	9.65	-0.02	1.1938	1.0373	-0.0158	0.0651	0.0100	0.1505	0.8688		
29	10.06	-0.04	1.2323	1.0644	-0.0887	0.0022	0.0110	0.1515	0.8637		
30	10.48	-0.01	1.3222	1.1095	0.0769	0.1453	0.0070	0.1460	0.8391		
31	10.89	0.0	1.3847	1.1270	0.1215	0.1433	0.0090	0.1428	0.8139		
32	11.29	-0.01	1.4352	1.1263	0.0384	0.0512	0.0090	0.1386	0.7848		
33	11.67	0.0	1.5145	1.2043	0.0920	0.0822	0.0080	0.1365	0.7952		
34	12.02	-0.02	1.5785	1.2027	0.0280	0.0118	0.0080	0.1307	0.7619		
35	12.40	-0.02	1.6102	1.2053	0.0088	0.0607	0.0050	0.1266	0.7485		
36	12.76	-0.01	1.6821	1.2536	0.0476	0.0524	-0.0100	0.1265	0.7453		
37	13.10	-0.01	1.7256	1.2497	0.0135	0.0501	-0.0090	0.1189	0.7242		
38	13.45	-0.02	1.7436	1.2745	-0.0251	0.0181	0.0090	0.1180	0.7310		
39	13.85	-0.01	1.8259	1.2893	0.0843	0.0690	0.0090	0.1095	0.7061		
40	14.20	0.0	1.8666	1.2883	0.0889	0.1045	0.0080	0.1008	0.6902		
41	14.51	-0.01	1.9512	1.3197	0.0268	0.0675	0.0100	0.0923	0.6764		
42	14.90	-0.01	2.0166	1.3392	0.0313	0.0492	0.0110	0.0865	0.6641		
43	15.27	-0.02	2.0714	1.3454	-0.0205	0.1147	0.0090	0.0792	0.6495		
44	15.66	-0.01	2.1315	1.3813	0.0492	0.1041	0.0100	0.0773	0.6480		
45	15.99	-0.01	2.2163	1.3976	0.0212	0.1653	0.0060	0.0763	0.6306		
46	16.33	-0.03	2.2868	1.4269	-0.0790	0.0956	0.0100	0.0718	0.6240		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	37	0.85	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.65	0.0	2.3377	1.4386	0.0497	0.2014	0.0120	0.0741	0.6154		
48	17.00	-0.02	2.4170	1.4796	0.0085	0.0651	0.0090	0.0754	0.6122		
49	17.32	-0.02	2.4457	1.4844	-0.0545	0.1613	0.0090	0.0813	0.6070		
50	17.65	-0.02	2.4920	1.5506	-0.1191	0.2247	-0.0200	0.0815	0.6222		
51	17.97	-0.03	2.5145	1.5501	-0.1423	0.2092	-0.0230	0.0811	0.6165		
52	18.32	-0.02	2.5696	1.5969	-0.1118	0.2305	-0.0260	0.0802	0.6215		
53	18.66	-0.02	2.6091	1.6136	-0.0987	0.1922	-0.0100	0.0737	0.6185		
54	18.99	-0.03	2.6453	1.6240	-0.0987	0.1322	0.0	0.0704	0.6139		
55	19.33	-0.02	2.7026	1.6386	-0.0123	0.0882	0.0020	0.0583	0.6063		
56	19.63	-0.03	2.7230	1.6470	-0.0898	0.1167	0.0040	0.0528	0.6048		
57	19.96	-0.02	2.7832	1.6617	-0.0338	0.1263	0.0020	0.0420	0.5971		
58	20.28	-0.03	2.8299	1.7104	-0.0597	0.0686	-0.0050	0.0305	0.6044		
59	20.63	-0.02	2.8913	1.6964	-0.0120	0.1518	-0.0050	0.0242	0.5867		
60	20.94	-0.02	2.9531	1.7649	0.0537	0.0638	-0.0090	0.0161	0.5976		
61	21.25	-0.03	2.9878	1.8043	-0.0621	0.0949	-0.0130	0.0097	0.6039		
62	21.60	-0.03	3.0717	1.7918	0.0080	-0.0162	-0.0100	0.0090	0.5833		
63	21.92	-0.03	3.1181	1.8409	-0.0424	0.1063	-0.0130	0.0039	0.5904		
64	22.25	-0.03	3.2260	1.8928	0.0680	0.0258	-0.0150	0.0031	0.5867		
65	22.59	-0.04	3.2842	1.8823	-0.0245	0.0413	-0.0100	0.0130	0.5731		
66	22.90	-0.04	3.3480	1.9580	-0.0066	-0.0008	-0.0230	0.0136	0.5848		
67	23.20	-0.04	3.4687	2.0039	0.0024	0.0666	-0.0170	0.0124	0.5777		
68	23.51	-0.04	3.5185	2.0261	0.0221	0.0171	-0.0210	0.0154	0.5758		
69	23.87	-0.03	3.5734	2.0223	0.1087	0.0128	-0.0270	0.0156	0.5659		
70	24.15	-0.04	3.6164	2.0811	-0.0123	0.1652	-0.0180	0.0108	0.5754		
71	24.49	-0.04	3.6958	2.1059	0.1038	-0.1123	-0.0230	0.0043	0.5698		
72	24.81	-0.03	3.7328	2.1231	0.0610	0.1246	-0.0260	-0.0061	0.5688		
73	25.13	-0.04	3.8351	2.1699	0.0183	0.0904	-0.0250	-0.0176	0.5658		
74	25.39	-0.05	3.8649	2.1692	-0.1185	0.2639	-0.0250	-0.0283	0.5612		
75	25.70	-0.06	3.9277	2.2432	-0.0694	-0.0568	-0.0270	-0.0417	0.5711		
76	26.03	-0.04	3.9883	2.2794	-0.0330	0.1292	-0.0230	-0.0576	0.5715		
77	26.31	-0.05	4.0188	2.3167	-0.0376	0.0306	-0.0220	-0.0728	0.5765		
78	26.57	-0.04	4.1115	2.3409	-0.0727	0.2228	-0.0210	-0.0796	0.5694		
79	26.87	-0.05	4.1561	2.3645	-0.0732	0.1295	-0.0180	-0.0872	0.5689		
80	27.21	-0.05	4.2531	2.4745	-0.0093	-0.0770	-0.0210	-0.0948	0.5818		
81	27.50	-0.04	4.3592	2.5779	0.0684	-0.1557	-0.0240	-0.0964	0.5914		
82	27.81	-0.05	4.4530	2.6066	-0.0841	0.2067	-0.0250	-0.0963	0.5854		
83	28.10	-0.03	4.5377	2.7470	0.0200	0.2060	-0.0270	-0.0942	0.6054		
84	28.39	-0.05	4.6679	2.8037	-0.0637	0.0162	-0.0250	-0.0985	0.6135		
85	28.72	-0.07	4.7766	2.9685	-0.2282	0.2005	-0.0270	-0.0920	0.6215		
86	29.04	-0.03	4.8862	3.1861	0.3268	-0.3115	-0.0300	-0.1017	0.6521		
87	29.38	-0.03	4.9825	3.2391	0.1060	-0.0224	-0.0270	-0.1078	0.6501		
88	29.67	-0.04	5.0107	3.2856	0.2126	-0.4416	-0.0220	-0.1158	0.6557		
89	29.98	-0.05	5.0717	3.3392	0.2453	-0.3424	-0.0250	-0.1244	0.6584		
90	30.28	-0.05	5.1545	3.4753	0.1495	-0.1373	-0.0170	-0.1350	0.6742		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	38	0.92	1.7	0.0	82W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.81	0.03	-0.2961	-0.3554	0.0495	0.0587	0.0	0.1352	1.2005		
2	-2.50	0.04	-0.2559	-0.3137	0.1091	0.0693	-0.0010	0.1332	1.2260		
3	-1.89	0.01	-0.1767	-0.2236	0.0284	0.0722	-0.0010	0.1391	1.2655		
4	-1.32	0.01	-0.1309	-0.1567	0.0640	0.0354	0.0	0.1389	1.1974		
5	-0.76	0.03	-0.0641	-0.0683	0.0598	0.1003	0.0	0.1390	1.0649		
6	-0.20	0.02	-0.0052	-0.0147	0.0541	0.0763	0.0	0.1391	2.8308		
7	0.32	0.02	0.0158	0.0569	0.0804	-0.0136	0.0020	0.1440	3.6000		
8	0.88	0.01	0.0969	0.1443	0.0082	0.0195	0.0010	0.1433	1.4896		
9	1.38	0.02	0.1222	0.2079	0.0768	0.0795	0.0010	0.1459	1.7015		
10	1.91	0.0	0.1993	0.2569	0.0030	0.0618	0.0	0.1454	1.2894		
11	2.40	0.01	0.2673	0.3407	0.0645	0.0077	0.0030	0.1465	1.2749		
12	2.88	0.0	0.3185	0.3691	0.0032	0.0435	0.0030	0.1427	1.1589		
13	3.37	0.0	0.3808	0.4658	0.0015	0.0759	0.0040	0.1421	1.2234		
14	3.82	0.01	0.4135	0.5025	0.0313	0.0502	0.0030	0.1450	1.2161		
15	4.28	0.01	0.4717	0.5654	0.1445	0.1457	0.0020	0.1486	1.1986		
16	4.75	0.0	0.5453	0.6214	0.0872	0.0889	0.0040	0.1496	1.1394		
17	5.24	-0.01	0.5989	0.6593	0.0317	0.0416	0.0040	0.1529	1.1008		
18	5.70	-0.01	0.6639	0.7063	0.0226	0.1203	0.0030	0.1511	1.0639		
19	6.16	-0.01	0.7145	0.7405	0.0320	0.0282	0.0050	0.1577	1.0363		
20	6.61	-0.02	0.7729	0.7837	-0.0105	-0.0013	0.0050	0.1635	1.0140		
21	7.11	-0.01	0.8573	0.8175	0.0528	0.0561	0.0060	0.1644	0.9536		
22	7.54	-0.01	0.9158	0.8506	0.0622	0.0529	0.0060	0.1651	0.9289		
23	7.97	-0.01	0.9796	0.8873	0.0734	0.0612	0.0050	0.1631	0.9058		
24	8.43	-0.02	1.0230	0.9305	-0.0210	0.1424	0.0070	0.1624	0.9096		
25	8.86	-0.01	1.1079	0.9567	0.1110	0.0606	0.0040	0.1600	0.8635		
26	9.27	-0.01	1.1492	0.9857	0.0703	0.0556	0.0050	0.1533	0.8577		
27	9.68	0.04	1.2170	1.0128	0.0502	0.0767	0.0040	0.1512	0.8322		
28	10.11	0.0	1.2955	1.0569	0.1081	0.0866	0.0050	0.1479	0.8158		
29	10.52	-0.01	1.3684	1.0808	0.0393	0.0930	0.0090	0.1465	0.7898		
30	10.96	-0.01	1.4121	1.1136	0.0375	0.0965	0.0090	0.1416	0.7886		
31	11.37	-0.01	1.4911	1.1280	0.0303	0.0326	0.0060	0.1367	0.7565		
32	11.76	0.01	1.5679	1.1675	0.1617	0.1036	0.0050	0.1324	0.7446		
33	12.12	-0.01	1.6210	1.1752	0.0264	0.0593	0.0050	0.1308	0.7250		
34	12.48	0.0	1.6856	1.2027	0.0814	0.1270	0.0050	0.1275	0.7135		
35	12.81	-0.01	1.7273	1.2143	0.0028	0.0861	0.0020	0.1261	0.7030		
36	13.19	0.0	1.7891	1.2528	0.0687	0.0768	0.0	0.1205	0.7003		
37	13.60	-0.01	1.8462	1.2699	0.0351	0.0908	-0.0010	0.1189	0.6878		
38	13.92	0.0	1.8868	1.3070	0.0633	0.0644	0.0050	0.1216	0.6927		
39	14.28	0.0	1.9700	1.3154	0.0635	0.1571	0.0090	0.1183	0.6677		
40	14.62	0.01	2.0355	1.3277	0.0900	0.1560	0.0080	0.1147	0.6523		
41	15.02	0.0	2.0903	1.3480	0.0167	0.1566	0.0080	0.1133	0.6449		
42	15.37	-0.01	2.1648	1.3617	-0.0339	0.1654	0.0090	0.1126	0.6382		
43	15.73	-0.02	2.2186	1.4124	-0.1012	0.1327	0.0080	0.1121	0.6366		
44	16.07	-0.02	2.2966	1.4112	-0.1047	0.1166	0.0080	0.1093	0.6145		
45	16.42	-0.02	2.3700	1.4454	-0.1008	0.1931	0.0060	0.1051	0.6116		
46	16.78	-0.02	2.4385	1.4885	-0.0930	0.1932	0.0040	0.1042	0.6104		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION	
6	38	0.92	1.7	0.0	82W3F0	16.750	OFF	UFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.11	-0.01	2.5034	1.5356	-0.0610	0.2104	0.0030	0.1031	0.6134		
48	17.43	-0.02	2.5636	1.5553	-0.1263	0.1688	0.0030	0.1019	0.6067		
49	17.74	-0.01	2.6133	1.5788	-0.0812	0.2916	0.0020	0.1008	0.6041		
50	18.11	-0.01	2.7013	1.6344	-0.0082	0.1575	0.0010	0.0935	0.6050		
51	18.44	-0.02	2.7209	1.6640	-0.1297	0.2266	-0.0030	0.0920	0.6115		
52	18.78	-0.02	2.7448	1.6985	-0.1108	0.2551	-0.0150	0.0854	0.6188		
53	19.09	-0.02	2.8068	1.7067	-0.0789	0.1674	-0.0170	0.0789	0.6081		
54	19.42	-0.02	2.8499	1.7484	-0.0975	0.2645	-0.0230	0.0696	0.6135		
55	19.76	-0.03	2.9085	1.7883	-0.1204	0.2145	-0.0170	0.0606	0.6149		
56	20.08	-0.04	2.9367	1.7948	-0.1412	0.1187	-0.0140	0.0538	0.6112		
57	20.45	-0.03	3.0313	1.8434	-0.0997	0.1466	-0.0080	0.0467	0.6081		
58	20.76	-0.03	3.0586	1.8812	-0.0905	0.1917	-0.0090	0.0421	0.6150		
59	21.11	-0.02	3.0975	1.8707	-0.0339	0.2314	-0.0070	0.0356	0.6039		
60	21.45	-0.03	3.1741	1.9464	-0.0488	0.1283	-0.0110	0.0302	0.6132		
61	21.80	-0.02	3.2375	1.9797	-0.0014	0.1645	-0.0120	0.0217	0.6115		
62	22.11	-0.04	3.3056	1.9933	-0.0469	0.0996	-0.0120	0.0182	0.6030		
63	22.43	-0.04	3.3537	2.0590	0.0046	0.0686	-0.0180	0.0124	0.6140		
64	22.71	-0.03	3.3842	2.0563	0.0694	0.0258	-0.0170	0.0112	0.6076		
65	23.05	-0.03	3.5053	2.1746	0.0202	0.1127	-0.0240	0.0075	0.6204		
66	23.37	-0.03	3.5697	2.1844	0.0050	0.1010	-0.0220	0.0024	0.6119		
67	23.69	-0.05	3.6257	2.2130	-0.0062	0.0127	-0.0220	0.0023	0.6104		
68	24.02	-0.04	3.7110	2.3146	0.0263	-0.0148	-0.0250	-0.0022	0.6237		
69	24.31	-0.04	3.7803	2.3546	-0.0477	0.2787	-0.0260	-0.0029	0.6242		
70	24.68	-0.04	3.9343	2.5030	0.0249	0.0341	-0.0290	-0.0077	0.6362		
71	24.99	-0.05	3.9954	2.5594	-0.0453	0.0374	-0.0250	-0.0094	0.6406		
72	25.31	-0.05	4.0330	2.6418	-0.1021	0.2479	-0.0290	-0.0153	0.6550		
73	25.61	-0.04	4.1190	2.6604	-0.1020	0.3318	-0.0220	-0.0180	0.6459		
74	25.93	-0.06	4.2408	2.8717	-0.1568	0.1935	-0.0180	-0.0268	0.6771		
75	26.22	-0.05	4.2835	2.9049	-0.0617	0.0494	-0.0230	-0.0331	0.6781		
76	26.51	-0.06	4.3645	2.9665	-0.0047	-0.1638	-0.0180	-0.0358	0.6797		
77	26.83	-0.05	4.4484	3.0840	-0.0535	0.0455	-0.0220	-0.0473	0.6933		
78	27.12	-0.04	4.5255	3.1411	0.0145	-0.0193	-0.0260	-0.0556	0.6941		
79	27.44	-0.04	4.5903	3.2073	0.0696	-0.1294	-0.0220	-0.0664	0.6987		
80	27.76	-0.07	4.7160	3.3003	-0.0289	-0.0315	-0.0210	-0.0717	0.6998		
81	28.08	-0.05	4.8183	3.4121	0.3531	-0.6703	-0.0240	-0.0806	0.7082		
82	28.37	-0.05	4.8673	3.5175	0.1690	-0.3406	-0.0270	-0.0854	0.7227		
83	28.69	-0.05	4.9449	3.5578	0.1786	-0.3320	-0.0260	-0.0879	0.7195		
84	29.00	-0.05	5.0124	3.6702	0.2852	-0.5192	-0.0280	-0.0990	0.7322		
85	29.35	-0.09	5.1788	3.8982	0.0629	-0.7410	-0.0240	-0.1039	0.7527		
86	29.67	-0.08	5.2865	4.0974	-0.0697	-0.1704	-0.0270	-0.1178	0.7751		
87	29.96	-0.06	5.3613	4.0617	-0.0676	-0.1703	-0.0300	-0.1115	0.7576		
88	30.26	0.08	5.5594	4.1563	0.7309	0.6905	-0.0550	-0.1485	0.7476		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	OEL3	OEL4	TRANSITION	
6	39	0.97	1.7	U-0	B2M3FU	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.81	0.01	-0.2653	-0.3485	0.0616	0.0728	0.0010	0.1746	1.3139		
2	-2.50	-0.01	-0.2534	-0.3252	-0.0002	0.0343	0.0020	0.1701	1.2835		
3	-1.89	0.0	-0.2044	-0.2298	0.1432	0.0685	0.0	0.1760	1.1245		
4	-1.31	0.0	-0.1247	-0.1444	0.1352	0.0157	0.0010	0.1749	1.1581		
5	-0.73	-0.01	-0.0681	-0.0826	0.1118	-0.0125	0.0010	0.1779	1.2138		
6	-0.20	-0.01	-0.0114	-0.0120	0.0435	0.0231	0.0020	0.1775	1.0561		
7	0.36	-0.01	0.0503	0.0776	0.0541	0.0932	0.0020	0.1807	1.5423		
8	0.88	0.0	0.0791	0.1362	0.0886	0.1509	0.0010	0.1830	1.7226		
9	1.42	0.0	0.1531	0.2056	0.0940	0.0214	0.0010	0.1843	1.3433		
10	1.93	0.01	0.2333	0.2843	0.1457	0.0490	0.0	0.1905	1.2189		
11	2.41	0.01	0.2523	0.3397	0.1647	0.0164	0.0020	0.1855	1.3467		
12	2.92	-0.02	0.3069	0.4123	-0.0432	0.1595	0.0030	0.1897	1.3436		
13	3.39	-0.01	0.3987	0.4736	-0.0087	0.1462	0.0030	0.1878	1.1878		
14	3.87	0.0	0.4374	0.5364	0.1014	0.0410	0.0050	0.1895	1.2263		
15	4.31	-0.02	0.4740	0.5822	-0.0033	0.0996	0.0050	0.1933	1.2281		
16	4.79	0.01	0.5401	0.6176	0.1429	0.2189	0.0040	0.1976	1.1435		
17	5.25	-0.02	0.5968	0.6543	0.0365	0.0239	0.0050	0.1962	1.0962		
18	5.75	-0.02	0.6794	0.7416	0.0109	0.0287	0.0040	0.2040	1.0915		
19	6.19	0.0	0.7597	0.7822	0.1244	0.0238	0.0050	0.2043	1.0296		
20	6.66	0.02	0.7695	0.7885	0.0437	0.0858	0.0060	0.2098	1.0246		
21	7.12	0.0	0.8543	0.8197	0.0783	0.1054	0.0070	0.2126	0.9596		
22	7.59	-0.04	0.9333	0.8791	0.0286	0.0670	0.0080	0.2110	0.9420		
23	8.04	0.0	1.0129	0.9307	0.1124	0.0749	0.0060	0.2123	0.9189		
24	8.47	-0.03	1.0667	0.9744	0.0324	0.1076	0.0070	0.2130	0.9135		
25	8.90	-0.03	1.0936	0.9677	0.0462	0.1133	0.0080	0.2087	0.8849		
26	9.32	-0.04	1.2087	1.0374	0.0704	-0.0166	0.0080	0.2044	0.8583		
27	9.74	-0.04	1.2699	1.0797	0.0122	0.0299	0.0070	0.2063	0.8502		
28	10.16	-0.01	1.3351	1.1024	0.0553	0.0696	0.0070	0.2025	0.8257		
29	10.58	-0.02	1.3862	1.1349	-0.0304	0.1025	0.0090	0.2008	0.8187		
30	11.00	-0.01	1.4388	1.1463	0.0486	0.0520	0.0090	0.1925	0.7967		
31	11.42	0.0	1.5452	1.1973	0.0333	0.2443	0.0090	0.1899	0.7748		
32	11.79	-0.01	1.5753	1.2031	0.0365	0.0853	0.0080	0.1860	0.7638		
33	12.14	0.0	1.6576	1.2299	0.0682	0.1393	0.0100	0.1846	0.7420		
34	12.53	-0.01	1.7316	1.2683	0.0680	0.1078	0.0100	0.1791	0.7325		
35	12.90	-0.03	1.7685	1.2597	-0.0108	0.1581	0.0090	0.1776	0.7123		
36	13.27	-0.02	1.8718	1.3130	-0.0192	0.1614	0.0110	0.1753	0.7015		
37	13.60	-0.01	1.9429	1.3393	0.0067	0.1396	0.0120	0.1705	0.6893		
38	13.99	0.0	2.0017	1.3580	0.0875	0.1155	0.0110	0.1655	0.6784		
39	14.39	0.0	2.0392	1.3875	0.0773	0.1428	0.0120	0.1622	0.6804		
40	14.75	-0.01	2.1545	1.4041	0.0225	0.0895	0.0140	0.1615	0.6517		
41	15.07	-0.03	2.1998	1.4297	0.0243	0.1860	0.0120	0.1563	0.6499		
42	15.43	0.0	2.2886	1.4394	0.1224	0.1726	0.0120	0.1474	0.6289		
43	15.83	-0.03	2.3215	1.4443	0.0212	0.1953	0.0130	0.1470	0.6221		
44	16.16	-0.04	2.3754	1.4918	-0.0112	0.1617	0.0060	0.1412	0.6280		
45	16.52	-0.04	2.4509	1.5311	-0.0282	0.1805	0.0040	0.1356	0.6247		
46	16.84	-0.02	2.5367	1.5750	-0.1211	0.1645	0.0040	0.1357	0.6209		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART MACH RX10-6		PHI	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION
		6	39 0.97 1.7	0.0	B2N3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.20	-0.04	2.6020	1.5936	-0.0797	0.2246	0.0030	0.1250	0.6125		
48	17.51	-0.01	2.6672	1.6393	-0.0107	0.2389	0.0020	0.1246	0.6146		
49	17.83	-0.04	2.7380	1.6940	-0.0931	0.3193	0.0	0.1256	0.6187		
50	18.18	-0.04	2.8006	1.7484	-0.0862	0.2666	0.0010	0.1194	0.6243		
51	18.49	-0.05	2.8115	1.7921	-0.0537	0.1492	0.0120	0.1124	0.6374		
52	18.84	-0.05	2.8603	1.8138	-0.0500	0.1130	0.0120	0.1126	0.6341		
53	19.18	-0.06	2.9601	1.8951	-0.1291	0.1557	0.0140	0.1046	0.6402		
54	19.53	-0.03	3.0098	1.9115	-0.0256	0.2988	0.0110	0.1020	0.6351		
55	19.85	-0.04	3.1100	2.0302	-0.0979	0.1920	0.0130	0.0997	0.6528		
56	20.19	-0.03	3.1303	2.0588	0.0661	0.0874	0.0090	0.1009	0.6577		
57	20.52	-0.04	3.2147	2.1026	-0.0201	0.1501	0.0110	0.0942	0.6541		
58	20.88	-0.03	3.3032	2.1477	0.0540	0.0674	0.0080	0.0887	0.6502		
59	21.23	-0.03	3.3649	2.1623	0.0166	0.2467	0.0010	0.0731	0.6426		
60	21.56	-0.05	3.4354	2.2196	-0.0920	0.1448	0.0020	0.0724	0.6461		
61	21.90	-0.06	3.5198	2.3133	-0.1195	0.0953	0.0010	0.0628	0.6572		
62	22.23	-0.03	3.5712	2.3133	0.0465	0.1449	-0.0010	0.0555	0.6478		
63	22.58	-0.06	3.6719	2.3473	-0.0243	0.1000	-0.0020	0.0501	0.6529		
64	22.88	-0.05	3.6649	2.4161	0.0242	0.1191	-0.0040	0.0417	0.6593		
65	23.23	-0.07	3.7878	2.5351	-0.0344	0.0421	-0.0050	0.0391	0.6693		
66	23.51	-0.07	3.9294	2.6408	-0.0861	0.1915	-0.0010	0.0271	0.6721		
67	23.86	-0.06	3.9604	2.7234	0.0578	0.0571	-0.0060	0.0268	0.6877		
68	24.20	-0.06	4.0617	2.8306	0.0336	0.0999	-0.0060	0.0184	0.6969		
69	24.51	-0.07	4.1413	2.9821	0.0009	0.0117	-0.0090	0.0130	0.7201		
70	24.84	-0.06	4.2003	2.9494	0.0339	0.1165	-0.0070	0.0067	0.7022		
71	25.19	-0.08	4.3084	3.0710	-0.0300	-0.0030	-0.0060	0.0042	0.7126		
72	25.46	-0.07	4.3021	3.0948	-0.0611	0.1295	-0.0130	-0.0016	0.7194		
73	25.80	-0.07	4.4707	3.2958	-0.0487	0.1602	-0.0090	-0.0059	0.7372		
74	26.13	-0.09	4.5772	3.4006	-0.1193	0.0740	-0.0100	-0.0148	0.7430		
75	26.43	-0.07	4.7552	3.5364	0.0297	-0.0076	-0.0120	-0.0171	0.7437		
76	26.75	-0.07	4.7356	3.6258	-0.2072	0.1900	-0.0090	-0.0235	0.7657		
77	27.05	-0.05	4.8211	3.6751	0.0333	0.1064	-0.0060	-0.0277	0.7623		
78	27.36	-0.07	5.0256	3.8577	-0.1603	0.3244	-0.0090	-0.0390	0.7676		
79	27.68	-0.08	5.0753	3.9951	-0.0476	-0.0074	-0.0150	-0.0517	0.7872		
80	27.96	-0.07	5.0725	3.9760	-0.1380	0.2672	-0.0090	-0.0532	0.7838		
81	28.29	-0.07	5.2100	4.1595	-0.0128	0.0939	-0.0150	-0.0578	0.7984		
82	28.58	-0.05	5.2308	4.1394	0.0412	0.0583	-0.0140	-0.0655	0.7913		
83	28.91	-0.05	5.3573	4.3282	0.0031	0.1096	-0.0130	-0.0676	0.8079		
84	29.25	-0.06	5.5578	4.5365	0.1131	-0.2223	-0.0240	-0.0701	0.8162		
85	29.58	-0.06	5.6664	4.7184	0.0818	-0.1515	-0.0210	-0.0702	0.8327		
86	29.93	-0.03	5.8159	4.9690	0.3661	-0.5075	-0.0310	-0.0690	0.8544		
87	30.27	-0.04	5.9552	5.1849	0.2267	-0.2224	-0.0300	-0.0606	0.8707		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	UEL1	DEL2	DEL3	DEL4	TRANSITION
6	40	1.01	1.7	0.0	B2N3F0	16.750	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.81	0.02	-0.2690	-0.3644	0.1050	0.1150	0.0040	0.2297	1.3546	
2	-2.82	0.03	-0.2780	-0.3877	0.1483	0.1414	0.0010	0.2349	1.3950	
3	-2.44	0.01	-0.2100	-0.3190	-0.0015	0.1311	0.0030	0.2313	1.5190	
4	-1.79	-0.01	-0.1808	-0.2269	0.0657	0.0590	0.0030	0.2318	1.2549	
5	-1.23	-0.01	-0.1228	-0.1821	0.0628	0.0471	0.0030	0.2316	1.4827	
6	-0.65	-0.02	-0.0658	-0.0659	0.0202	0.0437	0.0030	0.2353	1.0620	
7	-0.10	0.0	0.0034	-0.0028	0.0258	0.1349	0.0040	0.2314	-0.8118	
8	0.46	0.0	0.0529	0.0849	0.0760	0.1046	0.0020	0.2354	1.6057	
9	0.98	0.0	0.1135	0.1531	0.0194	0.1188	0.0040	0.2418	1.3489	
10	1.48	0.01	0.1674	0.2206	0.1379	0.0739	0.0040	0.2395	1.3180	
11	2.01	-0.01	0.2186	0.3059	0.0280	0.0908	0.0050	0.2421	1.3996	
12	2.52	0.02	0.2930	0.3788	0.1081	0.1336	0.0020	0.2385	1.2928	
13	3.01	-0.01	0.3424	0.4346	-0.0383	0.1806	0.0040	0.2367	1.2694	
14	3.48	-0.01	0.3930	0.5176	0.0234	0.0872	0.0060	0.2432	1.3169	
15	3.96	0.0	0.4506	0.5729	0.1018	0.0615	0.0040	0.2341	1.2714	
16	4.43	-0.01	0.5254	0.6012	0.0469	0.1183	0.0040	0.2401	1.1442	
17	4.90	-0.03	0.5872	0.6847	0.0304	0.0624	0.0060	0.2507	1.1660	
18	5.35	-0.01	0.6458	0.7266	0.0705	0.1063	0.0050	0.2548	1.1252	
19	5.84	0.0	0.6928	0.7808	0.1154	0.0984	0.0060	0.2600	1.1271	
20	6.31	0.01	0.7689	0.8573	0.1787	0.0988	0.0050	0.2611	1.1150	
21	6.78	-0.01	0.8141	0.9110	0.0559	0.1077	0.0060	0.2532	1.1190	
22	7.23	-0.02	0.8688	0.9424	0.1141	0.0623	0.0070	0.2650	1.0848	
23	7.67	-0.04	0.9497	0.9962	-0.0285	0.1339	0.0080	0.2647	1.0489	
24	8.13	-0.02	1.0369	1.0371	0.1046	0.0746	0.0070	0.2638	1.0002	
25	8.55	0.0	1.0429	1.0647	0.0531	0.1506	0.0090	0.2645	1.0209	
26	9.01	0.0	1.1521	1.1116	0.1198	0.1473	0.0080	0.2726	0.9648	
27	9.41	-0.03	1.2155	1.1579	0.0351	0.1118	0.0110	0.2712	0.9526	
28	9.85	-0.04	1.2693	1.1965	-0.0377	0.1438	0.0110	0.2657	0.9427	
29	10.26	-0.02	1.3282	1.2261	0.1185	0.1371	0.0090	0.2612	0.9231	
30	10.67	-0.05	1.4008	1.2724	-0.0126	0.0406	0.0100	0.2576	0.9084	
31	11.07	0.0	1.4799	1.3227	0.0939	0.1585	0.0110	0.2497	0.8938	
32	11.48	-0.02	1.5058	1.3304	0.0491	0.1512	0.0110	0.2451	0.8835	
33	11.88	-0.01	1.5964	1.3516	0.1140	0.1934	0.0110	0.2412	0.8467	
34	12.24	0.01	1.6573	1.3723	0.1241	0.1912	0.0120	0.2381	0.8281	
35	12.58	0.0	1.7502	1.3673	0.0611	0.1514	0.0140	0.2340	0.7812	
36	13.01	-0.02	1.7715	1.4274	0.1328	0.0601	0.0120	0.2284	0.8058	
37	13.37	0.0	1.8464	1.4416	0.0781	0.1396	0.0130	0.2219	0.7602	
38	13.72	-0.01	1.9845	1.4621	0.0566	0.1777	0.0140	0.2147	0.7367	
39	14.07	-0.01	1.9872	1.4913	0.0483	0.1634	0.0140	0.2138	0.7504	
40	14.44	0.0	2.0644	1.5222	0.0751	0.1768	0.0150	0.2083	0.7374	
41	14.84	-0.04	2.1624	1.5450	0.0004	0.1234	0.0150	0.2041	0.7145	
42	15.21	-0.01	2.1930	1.5612	-0.0028	0.1969	0.0150	0.1991	0.7119	
43	15.52	-0.02	2.2902	1.6331	-0.0175	0.1095	0.0160	0.1910	0.7131	
44	15.89	0.0	2.3395	1.6811	0.0485	0.1775	0.0160	0.1924	0.7186	
45	16.24	-0.02	2.4110	1.6870	-0.0040	0.1826	0.0160	0.1839	0.6997	
46	16.60	-0.06	2.4802	1.7251	-0.1232	0.1315	0.0190	0.1792	0.6955	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	40	1.01	1.7	0.0	B2W3F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.94	-0.03	2.5631	1.7780	-0.0104	0.2395	0.0160	0.1764	0.6937		
48	17.27	-0.03	2.5829	1.7653	-0.1144	0.2151	0.0200	0.1749	0.6835		
49	17.65	-0.02	2.7107	1.8772	-0.0697	0.1556	0.0180	0.1675	0.6925		
50	17.96	-0.04	2.7631	1.9059	-0.0761	0.1685	0.0170	0.1692	0.6897		
51	18.29	-0.03	2.7649	1.9013	-0.0314	0.2939	0.0180	0.1645	0.6877		
52	18.62	-0.05	2.8258	1.9281	-0.1320	0.3008	0.0140	0.1534	0.6823		
53	18.98	-0.04	2.9381	1.9978	-0.0195	0.1633	0.0130	0.1459	0.6800		
54	19.31	-0.03	2.9889	2.0487	-0.0325	0.2685	0.0120	0.1413	0.6854		
55	19.66	-0.05	3.0589	2.0717	-0.1015	0.2791	0.0110	0.1394	0.6773		
56	20.01	-0.05	3.1542	2.1923	-0.0831	0.1283	0.0110	0.1340	0.6950		
57	20.35	-0.05	3.2067	2.2508	-0.1437	0.3161	0.0120	0.1280	0.7019		
58	20.65	-0.03	3.2290	2.2715	0.0357	0.1760	0.0030	0.1293	0.7035		
59	21.03	-0.04	3.3380	2.3489	-0.0889	0.3224	0.0020	0.1208	0.7037		
60	21.37	-0.06	3.4391	2.3813	-0.1086	0.1170	0.0080	0.1165	0.6924		
61	21.73	-0.05	3.5296	2.4075	-0.0559	0.1432	0.0060	0.1083	0.6821		
62	22.04	-0.05	3.5945	2.4667	-0.0248	0.1793	0.0040	0.1044	0.6862		
63	22.37	-0.07	3.7079	2.5279	-0.1296	0.1544	0.0070	0.0967	0.6818		
64	22.69	-0.04	3.7222	2.5229	-0.0145	0.1913	0.0090	0.0956	0.6778		
65	23.01	-0.03	3.8580	2.6118	0.0186	0.2469	0.0080	0.0874	0.6770		
66	23.34	-0.03	4.0016	2.7237	0.0883	0.0594	0.0050	0.0783	0.6807		
67	23.69	-0.02	4.0445	2.7626	0.1263	0.1422	0.0090	0.0743	0.6831		
68	24.01	-0.07	4.1929	2.8849	0.0011	0.0085	0.0080	0.0659	0.6880		
69	24.30	-0.05	4.2294	2.9046	0.1238	0.0087	0.0060	0.0657	0.6868		
70	24.68	-0.07	4.3512	3.0251	0.0013	0.0612	0.0130	0.0664	0.6952		
71	24.99	-0.06	4.5275	3.1573	0.0811	0.0395	0.0090	0.0719	0.6973		
72	25.36	-0.04	4.6214	3.1958	0.1220	0.1572	0.0040	0.1041	0.6915		
73	25.67	-0.05	4.6978	3.2488	0.0858	0.1019	0.0010	0.1232	0.6916		
74	25.95	-0.06	4.8516	3.3305	-0.0725	0.3555	0.0020	0.1391	0.6865		
75	26.33	-0.03	4.9195	3.3984	-0.0200	0.2800	-0.0020	0.1328	0.6908		
76	26.60	-0.07	4.9842	3.4867	-0.1484	0.3677	-0.0030	0.1216	0.6995		
77	26.91	-0.07	5.1055	3.6578	-0.1220	0.3658	-0.0100	0.1140	0.7164		
78	27.23	-0.06	5.1651	3.6214	-0.1252	0.5352	-0.0070	0.1014	0.7011		
79	27.57	-0.06	5.2897	3.8439	-0.0631	0.3973	-0.0120	0.0730	0.7267		
80	27.84	-0.07	5.3783	4.0115	-0.1070	0.3458	-0.0180	0.0620	0.7459		
81	28.17	-0.05	5.4570	4.1247	-0.0418	0.3735	-0.0180	0.0439	0.7559		
82	28.48	-0.07	5.5409	4.1612	-0.1938	0.3693	-0.0170	0.0217	0.7510		
83	28.80	-0.05	5.6409	4.2962	-0.0499	0.2758	-0.0220	0.0160	0.7616		
84	29.14	-0.04	5.7631	4.3950	0.0967	0.0266	-0.0270	0.0041	0.7633		
85	29.46	-0.04	5.8610	4.4409	0.0424	0.1776	-0.0230	-0.0089	0.7577		
86	29.78	-0.05	5.9534	4.6015	0.0659	-0.0533	-0.0340	-0.0168	0.7729		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	4.1	1.05	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.82	0.04	-0.2745	-0.3836	0.0312	0.1823	0.0040	0.3005	1.3978		
2	-2.54	0.01	-0.2676	-0.3563	0.0345	0.0737	0.0040	0.2961	1.3317		
3	-1.95	0.02	-0.2068	-0.2764	0.0633	0.0984	0.0040	0.2941	1.3369		
4	-1.37	-0.01	-0.1416	-0.1947	0.0259	0.0577	0.0040	0.2900	1.3754		
5	-0.75	0.03	-0.0643	-0.1090	0.0365	0.0659	0.0050	0.2913	1.6949		
6	-0.22	0.04	0.0001	-0.0231	0.0636	0.0809	0.0040	0.2925	231.4000		
7	0.30	0.01	0.0361	0.0485	0.0556	0.0931	0.0050	0.3013	1.3424		
8	0.86	0.02	0.0825	0.1445	0.0903	0.0836	0.0040	0.3042	1.7515		
9	1.36	0.01	0.1531	0.2146	0.0311	0.0554	0.0050	0.2977	1.4021		
10	1.91	0.01	0.2278	0.2820	0.0362	0.1123	0.0040	0.3000	1.2383		
11	2.39	0.02	0.2821	0.3280	0.1386	0.0350	0.0050	0.2920	1.1629		
12	2.90	0.01	0.3579	0.4009	0.0381	0.0437	0.0040	0.2895	1.1203		
13	3.37	0.01	0.3976	0.4682	0.0514	0.0770	0.0040	0.2929	1.1773		
14	3.86	0.0	0.4571	0.5279	-0.0127	0.0608	0.0060	0.2961	1.1547		
15	4.30	0.02	0.5131	0.5694	0.1011	0.0864	0.0060	0.2892	1.1097		
16	4.78	0.0	0.5835	0.6429	0.0535	0.0891	0.0070	0.3083	1.1017		
17	5.25	-0.01	0.6425	0.6723	0.0322	0.0789	0.0050	0.3129	1.0463		
18	5.73	0.0	0.6983	0.7291	0.0703	0.0666	0.0060	0.3197	1.0442		
19	6.18	-0.01	0.7724	0.7784	0.0177	0.1052	0.0060	0.3134	1.0078		
20	6.64	0.0	0.8475	0.8203	-0.0102	0.1323	0.0070	0.3177	0.9679		
21	7.12	-0.01	0.9206	0.8509	0.0048	0.1173	0.0080	0.3146	0.9243		
22	7.57	0.02	0.9687	0.9006	0.0627	0.0192	0.0080	0.3155	0.9247		
23	8.03	0.01	1.0271	0.9548	0.0248	0.0723	0.0080	0.3155	0.9296		
24	8.46	0.0	1.0741	0.9650	0.0810	0.1286	0.0090	0.3229	0.8985		
25	8.90	-0.01	1.1594	1.0184	0.0597	0.1274	0.0080	0.3160	0.8784		
26	9.31	-0.01	1.1986	1.0365	0.0549	0.0311	0.0110	0.3236	0.8648		
27	9.73	0.04	1.2857	1.0846	-0.0175	0.1615	0.0090	0.3251	0.8436		
28	10.17	-0.02	1.3435	1.1207	-0.0273	0.0832	0.0130	0.3264	0.8341		
29	10.57	-0.07	1.3745	1.1473	0.0057	0.0330	0.0130	0.3205	0.8347		
30	11.01	0.0	1.4823	1.1913	0.0406	0.0801	0.0120	0.3207	0.8037		
31	11.40	-0.02	1.5472	1.2565	-0.0267	0.0744	0.0130	0.3217	0.8121		
32	11.80	-0.01	1.5991	1.2878	-0.0004	0.0476	0.0150	0.3195	0.8053		
33	12.16	0.01	1.6788	1.3132	0.0080	0.0898	0.0140	0.3157	0.7823		
34	12.56	0.0	1.7358	1.3224	-0.0426	0.0386	0.0160	0.3073	0.7619		
35	12.91	0.01	1.7867	1.3612	0.0359	0.0797	0.0170	0.3050	0.7618		
36	13.27	0.0	1.8762	1.3769	0.0443	0.0070	0.0160	0.3019	0.7339		
37	13.63	-0.02	1.9350	1.3764	-0.0503	0.0274	0.0170	0.2954	0.7113		
38	14.02	-0.01	2.0248	1.4077	-0.0012	0.0647	0.0170	0.2909	0.6952		
39	14.39	-0.02	2.0486	1.4044	-0.0223	0.0462	0.0180	0.2878	0.6855		
40	14.72	-0.02	2.1670	1.3996	-0.0286	0.1110	0.0150	0.2766	0.6459		
41	15.08	0.0	2.2273	1.4472	0.0500	0.1750	0.0170	0.2631	0.6497		
42	15.46	-0.01	2.2999	1.4595	0.0026	0.1103	0.0170	0.2493	0.6346		
43	15.85	0.0	2.3645	1.5211	0.0290	0.1824	0.0180	0.2450	0.6454		
44	16.17	-0.03	2.4297	1.5568	-0.1090	0.1716	0.0180	0.2434	0.6407		
45	16.49	-0.01	2.4848	1.5857	-0.0020	0.2208	0.0160	0.2485	0.6381		
46	16.84	-0.01	2.5590	1.6028	-0.0035	0.1949	0.0190	0.2582	0.6263		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	41	1.05	1.7	0.0	0.2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
47	17.17	-0.02	2.6296	1.6459	-0.0510	0.1804	0.0170	0.2671	0.6259		
48	17.52	-0.01	2.6914	1.6793	0.0017	0.2146	0.0170	0.2605	0.6239		
49	17.85	-0.03	2.7559	1.7070	-0.0500	0.1530	0.0180	0.2587	0.6194		
50	18.20	-0.03	2.8180	1.7610	-0.1095	0.1423	0.0160	0.2608	0.6249		
51	18.54	-0.03	2.9019	1.8155	-0.0815	0.2201	0.0170	0.2516	0.6256		
52	18.89	-0.01	2.9690	1.8906	-0.0337	0.2601	0.0130	0.2389	0.6368		
53	19.22	-0.01	3.0249	1.9093	-0.0025	0.2505	0.0150	0.2268	0.6312		
54	19.58	-0.02	3.0690	2.0156	0.0009	0.1157	0.0100	0.2133	0.6568		
55	19.89	-0.02	3.1599	2.0723	-0.0302	0.1313	0.0110	0.2026	0.6558		
56	20.22	-0.01	3.2317	2.1448	0.0045	0.1757	0.0120	0.1836	0.6637		
57	20.59	-0.01	3.2942	2.2043	0.0195	0.1577	0.0090	0.1645	0.6691		
58	20.92	-0.03	3.3669	2.2385	-0.0316	0.0782	0.0080	0.1627	0.6649		
59	21.27	-0.03	3.4500	2.2870	0.0032	0.0935	0.0100	0.1650	0.6629		
60	21.61	-0.03	3.5393	2.3590	-0.0065	0.0741	0.0090	0.1505	0.6665		
61	21.95	-0.03	3.5941	2.4162	0.0931	0.0017	0.0070	0.1427	0.6723		
62	22.29	-0.03	3.7019	2.4613	0.0265	0.0463	0.0090	0.1404	0.6649		
63	22.63	-0.03	3.7841	2.5212	-0.0011	0.1385	0.0100	0.1344	0.6663		
64	22.96	-0.03	3.8641	2.5582	0.0172	0.0609	0.0120	0.1475	0.6621		
65	23.27	-0.03	4.0039	2.6025	0.0324	0.1476	0.0110	0.1576	0.6500		
66	23.58	-0.03	4.1166	2.6737	0.0825	0.0705	0.0070	0.1757	0.6495		
67	23.93	-0.03	4.2084	2.6251	0.0660	0.1326	0.0070	0.1875	0.6247		
68	24.27	-0.02	4.3489	2.7083	0.0825	0.1305	0.0120	0.1980	0.6228		
69	24.57	-0.03	4.4351	2.8307	0.0347	0.1314	0.0080	0.2018	0.6382		
70	24.96	-0.03	4.5084	2.8990	0.0675	0.0725	0.0070	0.2000	0.6430		
71	25.23	-0.03	4.5588	3.0094	0.0005	0.1703	0.0090	0.1915	0.6601		
72	25.58	-0.03	4.6859	3.1055	0.0009	0.2417	-0.0040	0.1806	0.6627		
73	25.90	-0.04	4.7500	3.0968	-0.0216	0.3252	-0.0040	0.1755	0.6520		
74	26.16	-0.05	4.8535	3.2028	-0.0238	0.3093	-0.0110	0.1747	0.6599		
75	26.52	-0.05	4.9326	3.1911	-0.0780	0.3931	-0.0050	0.1669	0.6469		
76	26.83	-0.05	5.0523	3.3204	-0.1088	0.4613	-0.0070	0.1482	0.6572		
77	27.12	-0.06	5.1726	3.4749	-0.1193	0.2670	-0.0020	0.1294	0.6718		
78	27.43	-0.05	5.2640	3.7339	0.0134	0.2022	-0.0070	0.0859	0.7093		
79	27.80	-0.05	5.4023	3.8083	0.0236	0.1169	-0.0070	0.0595	0.7049		
80	28.09	-0.06	5.4567	3.8891	-0.0723	0.2722	-0.0040	0.0403	0.7127		
81	28.42	-0.05	5.6303	3.9791	-0.0007	0.1540	-0.0160	0.0512	0.7067		
82	28.72	-0.05	5.8143	4.0373	-0.0086	0.2300	-0.0190	0.0696	0.6944		
83	29.00	-0.05	5.9136	4.0123	0.0896	-0.0004	-0.0200	0.0942	0.6785		
84	29.32	-0.04	6.0099	3.9475	0.0762	0.1463	-0.0230	0.1118	0.6568		
85	29.65	-0.06	6.1390	4.0247	-0.0684	0.1897	-0.0310	0.1137	0.6556		
86	29.97	-0.02	6.1909	3.9211	0.1616	0.2917	-0.0320	0.1109	0.6334		
87	30.29	-0.03	6.2871	3.9564	0.2166	-0.0462	-0.0250	0.0980	0.6293		

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	OEL4	TRANSITION
6	42	1.10	1.7	0.0	B2M3FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
2	-2.51	0.15	-0.2311	-0.3094	0.0912	0.1453	0.0060	0.2908	1.3391		
3	-1.93	0.03	-0.1753	-0.2405	-0.0545	0.1243	0.0070	0.2851	1.3724		
4	-1.35	0.02	-0.1073	-0.1538	0.0015	0.2229	0.0040	0.2836	1.4332		
5	-0.74	0.02	-0.0547	-0.0444	-0.0483	0.1556	0.0050	0.2762	0.8121		
6	-0.21	0.04	-0.0091	0.0107	-0.0684	0.2254	0.0040	0.2927	-1.1802		
7	0.34	-0.01	0.0459	0.1087	-0.1516	0.2322	0.0050	0.2970	2.3691		
8	0.87	0.0	0.0925	0.1815	0.0875	0.1715	0.0050	0.3035	1.9622		
9	1.40	0.0	0.1682	0.2305	0.1007	0.1190	0.0040	0.2941	1.3705		
10	1.92	0.02	0.2502	0.3317	0.1073	0.1358	0.0060	0.3078	1.3258		
11	2.43	0.03	0.2596	0.3995	0.0407	0.0750	0.0060	0.3122	1.5391		
12	2.91	0.0	0.3484	0.4632	0.0441	0.0563	0.0070	0.3125	1.3296		
13	3.40	0.04	0.3734	0.4822	0.0474	0.1316	0.0060	0.3070	1.2915		
14	3.86	0.05	0.4146	0.5773	-0.0500	0.1560	0.0080	0.3258	1.3924		
15	4.32	0.07	0.5070	0.6310	0.2041	0.1082	0.0080	0.3161	1.2444		
16	4.79	0.06	0.5771	0.6718	0.0545	0.1377	0.0060	0.3200	1.1641		
17	5.25	-0.06	0.6018	0.7412	-0.0723	0.1662	0.0070	0.3320	1.2317		
18	5.75	-0.08	0.7130	0.7736	-0.0527	0.1068	0.0080	0.3378	1.0849		
19	6.19	-0.08	0.7787	0.8166	-0.1421	0.1639	0.0090	0.3371	1.0486		
20	6.66	0.07	0.8074	0.8784	0.0698	0.1153	0.0110	0.3345	1.0879		
21	7.11	-0.03	0.8519	0.9061	-0.0931	0.1513	0.0080	0.3463	1.0636		
22	7.58	0.02	0.9284	0.9820	0.1729	0.1109	0.0090	0.3458	1.0577		
23	8.04	0.0	0.9663	0.9829	0.0833	0.0484	0.0090	0.3456	1.0172		
24	8.48	0.02	1.0800	1.0527	0.0869	0.0403	0.0110	0.3527	0.9748		
25	8.92	0.01	1.1442	1.0717	-0.0681	0.2623	0.0110	0.3486	0.9366		
26	9.33	0.08	1.1887	1.1084	0.2618	0.0575	0.0100	0.3419	0.9324		
27	9.75	-0.05	1.2644	1.1214	0.1411	0.0745	0.0090	0.3293	0.8869		
28	10.17	-0.08	1.2733	1.1769	-0.1640	0.1936	0.0130	0.3422	0.9243		
29	10.60	-0.05	1.4014	1.2446	-0.0920	0.1238	0.0120	0.3345	0.8881		
30	11.02	0.03	1.4707	1.2396	-0.0854	0.2445	0.0110	0.3317	0.8428		
31	11.43	0.07	1.5096	1.2691	0.0629	0.3205	0.0100	0.3276	0.8407		
32	11.81	0.08	1.6039	1.2921	0.1701	0.0149	0.0100	0.3197	0.8056		
33	12.19	0.02	1.6836	1.3335	0.0441	0.1752	0.0120	0.3201	0.7921		
34	12.56	0.01	1.7392	1.3707	-0.0360	0.2234	0.0130	0.3208	0.7881		
35	12.94	0.08	1.7656	1.3657	0.0114	0.0640	0.0160	0.3188	0.7735		
36	13.28	-0.02	1.8383	1.3979	-0.1209	0.1872	0.0130	0.3171	0.7605		
37	13.63	-0.02	1.9183	1.4188	0.0380	-0.0292	0.0150	0.3192	0.7396		
38	14.03	0.01	2.0064	1.4384	-0.0028	0.2019	0.0160	0.3126	0.7169		
39	14.40	0.04	2.0597	1.4688	0.3119	0.0863	0.0140	0.3064	0.7131		
40	14.75	0.0	2.1261	1.5268	0.0220	0.1762	0.0150	0.3134	0.7181		
41	15.11	-0.03	2.1999	1.5515	-0.0891	0.1417	0.0170	0.3081	0.7053		
42	15.46	0.09	2.2263	1.5406	0.1303	0.3525	0.0160	0.3009	0.6920		
43	15.85	0.02	2.3108	1.5613	-0.1133	-0.0674	0.0160	0.2955	0.6756		
44	16.22	0.03	2.4245	1.6461	0.0979	0.2415	0.0160	0.2936	0.6789		
45	16.55	-0.08	2.4694	1.6952	-0.0248	0.0747	0.0180	0.2853	0.6865		
46	16.90	0.0	2.5569	1.6617	0.1097	0.2894	0.0150	0.2798	0.6499		
47	17.22	-0.05	2.6468	1.7278	-0.0196	0.1494	0.0150	0.2793	0.6528		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6	42	1.10	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
48	17.52	0.02	2.6589	1.7819	-0.1112	0.2826	0.0180	0.2899	0.6702		
49	17.86	0.01	2.7377	1.8874	-0.0734	0.1497	0.0140	0.2844	0.6894		
50	18.20	-0.01	2.8598	1.9205	-0.1071	0.2930	0.0130	0.2712	0.6763		
51	18.55	0.05	2.8585	1.9683	-0.0568	0.2045	0.0130	0.2759	0.6886		
52	18.90	-0.01	2.9530	2.0100	0.0827	0.0612	0.0120	0.2679	0.6807		
53	19.24	-0.04	2.9469	2.0135	-0.0811	0.2645	0.0100	0.2626	0.6833		
54	19.60	-0.02	2.9962	2.0755	-0.0975	0.2795	0.0100	0.2567	0.6927		
55	19.92	-0.05	3.1032	2.1197	-0.1171	0.2549	0.0090	0.2463	0.6831		
56	20.26	-0.01	3.1930	2.1150	-0.0169	0.1946	0.0100	0.2460	0.6624		
57	20.59	-0.02	3.2604	2.1796	-0.0760	0.2224	0.0120	0.2339	0.6685		
58	20.93	-0.01	3.3217	2.2448	0.0245	0.2607	0.0130	0.2325	0.6758		
59	21.24	-0.05	3.4022	2.2861	-0.0956	0.1818	0.0070	0.2247	0.6714		
60	21.62	0.0	3.5068	2.3385	0.0398	0.1893	0.0090	0.2254	0.6668		
61	21.95	-0.02	3.5813	2.4052	-0.0755	0.3077	0.0080	0.2187	0.6716		
62	22.32	-0.04	3.6596	2.4835	-0.0440	0.1756	0.0030	0.2134	0.6786		
63	22.65	-0.01	3.7581	2.5336	0.1972	0.0149	0.0030	0.2028	0.6742		
64	22.96	-0.04	3.8815	2.7198	-0.0106	0.0808	0.0020	0.2080	0.7007		
65	23.26	-0.03	3.9336	2.7349	0.0820	0.0472	0.0	0.2047	0.6953		
66	23.64	-0.04	4.0494	2.7308	-0.0993	0.3660	0.0060	0.1983	0.6744		
67	23.91	-0.02	4.1760	2.8145	0.0180	0.3518	0.0020	0.1941	0.6740		
68	24.28	-0.01	4.2212	2.8851	0.0874	0.2916	-0.0020	0.1851	0.6835		
69	24.56	-0.01	4.2435	2.9219	0.1485	0.0431	-0.0020	0.1892	0.6885		
70	24.92	-0.02	4.3966	2.9785	0.0612	0.2073	0.0050	0.1736	0.6775		
71	25.26	-0.03	4.5160	3.0844	-0.0901	0.5021	-0.0050	0.1664	0.6830		
72	25.55	-0.06	4.5496	3.2373	-0.1328	0.4129	-0.0050	0.1632	0.7116		
73	25.91	-0.06	4.7291	3.2810	-0.2282	0.7044	-0.0070	0.1583	0.6938		
74	26.17	-0.04	4.7883	3.3381	0.0011	0.2844	-0.0130	0.1589	0.6971		
75	26.51	-0.04	4.9138	3.5074	-0.1091	0.4267	-0.0160	0.1535	0.7138		
76	26.83	-0.02	4.9424	3.4423	0.0411	0.2334	-0.0190	0.1423	0.6965		
77	27.13	-0.05	5.1128	3.6236	0.0149	0.2641	-0.0140	0.1440	0.7087		
78	27.40	-0.04	5.2196	3.5991	-0.1086	0.4550	-0.0090	0.1376	0.6895		
79	27.79	-0.06	5.3464	3.7526	-0.1117	0.2423	-0.0150	0.1305	0.7019		
80	28.09	-0.06	5.3602	3.7653	-0.0803	0.1584	-0.0100	0.1331	0.7024		
81	28.39	-0.04	5.4943	3.8805	0.0074	0.0886	-0.0190	0.1200	0.7063		
82	28.70	-0.03	5.5933	3.9689	0.0418	0.0465	-0.0200	0.1162	0.7096		
83	29.00	-0.07	5.7061	3.9780	-0.0119	0.0027	-0.0230	0.0964	0.6971		
84	29.35	-0.05	5.9327	4.1406	0.1470	0.0132	-0.0240	0.0835	0.6979		
85	29.62	-0.02	5.8949	4.0615	0.1238	0.0227	-0.0230	0.0910	0.6884		
86	29.96	-0.02	6.0315	4.1172	0.1571	0.0201	-0.0260	0.0832	0.6826		
87	30.28	-0.03	6.1204	4.1228	0.0565	0.1149	-0.0240	0.0915	0.6736		
88	30.60	-0.03	6.3321	4.1144	0.0701	0.1428	-0.0250	0.1118	0.6498		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION	
6	43	0.85	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.75	-0.01	-0.5050	0.5631	0.1370	-0.0198	0.0040	0.1481	-1.1149		
2	-2.49	-0.02	-0.4707	0.5261	0.1288	0.0907	0.0	0.1446	-1.1175		
3	-1.93	-0.04	-0.3616	0.4072	-0.0082	0.0465	0.0030	0.1501	-1.1262		
4	-1.33	-0.02	-0.2553	0.2744	0.0169	0.0473	0.0	0.1556	-1.0749		
5	-0.79	-0.03	-0.1950	0.2040	-0.0286	0.0340	0.0010	0.1558	-1.0462		
6	-0.24	-0.02	-0.1153	0.1364	0.0109	0.0637	0.0010	0.1539	-1.1032		
7	0.28	-0.03	-0.0252	0.0813	-0.0512	-0.0013	0.0010	0.1541	-3.2254		
8	0.82	-0.02	0.0442	0.0201	0.0300	0.0230	-0.0010	0.1604	0.4552		
9	1.31	-0.02	0.1343	-0.0690	0.0239	0.0085	0.0330	0.1634	-0.5139		
10	1.84	-0.02	0.2300	-0.1830	0.0116	0.0078	0.0030	0.1580	-0.7957		
11	2.32	-0.03	0.3396	-0.2914	-0.0318	-0.0085	0.0030	0.1603	-0.8582		
12	2.81	-0.03	0.4280	-0.4403	-0.0625	-0.0039	0.0010	0.1582	-1.0286		
13	3.28	-0.03	0.5194	-0.5722	0.0055	-0.0147	0.0050	0.1595	-1.1016		
14	3.74	-0.04	0.6146	-0.7405	0.0096	0.0196	0.0010	0.1622	-1.2048		
15	4.18	-0.04	0.7155	-0.8527	0.0638	0.0167	0.0030	0.1588	-1.1918		
16	4.65	-0.04	0.8265	-1.0221	0.0409	0.0457	0.0020	0.1557	-1.2367		
17	5.10	-0.06	0.9174	-1.1264	-0.0879	0.0221	0.0050	0.1543	-1.2278		
18	5.55	-0.04	1.0557	-1.3229	0.0138	0.0137	0.0070	0.1526	-1.2532		
19	6.01	-0.04	1.1511	-1.4586	0.0097	-0.0116	0.0040	0.1546	-1.2671		
20	6.45	-0.05	1.2787	-1.6762	-0.0363	-0.0324	0.0080	0.1506	-1.3109		
21	6.92	-0.06	1.3492	-1.8049	-0.0196	-0.0156	0.0080	0.1505	-1.3377		
22	7.36	-0.06	1.4889	-2.0065	-0.0070	-0.0132	0.0080	0.1477	-1.3476		
23	7.80	-0.06	1.5877	-2.1858	0.0449	0.1151	0.0100	0.1456	-1.3707		
24	8.22	-0.07	1.6682	-2.3415	0.0199	-0.0379	0.0080	0.1417	-1.4036		
25	8.67	-0.08	1.7919	-2.5516	-0.0572	-0.0669	0.0100	0.1358	-1.4240		
26	9.06	-0.07	1.8981	-2.7393	-0.0116	-0.0158	0.0090	0.1309	-1.4432		
27	9.46	-0.08	2.0348	-2.9358	-0.0614	0.0710	0.0090	0.1312	-1.4427		
28	9.88	-0.07	2.1429	-3.1661	-0.0076	-0.0034	0.0080	0.1240	-1.4775		
29	10.28	-0.07	2.2672	-3.3231	-0.0241	0.0677	0.0080	0.1219	-1.4657		
30	10.68	-0.08	2.3621	-3.4969	-0.0784	0.0128	0.0100	0.1174	-1.4804		
31	11.09	-0.08	2.4773	-3.6852	-0.1033	0.0666	0.0050	0.1142	-1.4876		
32	11.46	-0.07	2.5711	-3.8515	0.0006	0.1011	0.0090	0.1009	-1.4980		
33	11.83	-0.06	2.7067	-4.0824	-0.0223	0.0292	0.0060	0.1040	-1.5082		
34	12.20	-0.07	2.7963	-4.2058	-0.0635	0.0665	0.0080	0.0970	-1.5041		
35	12.54	-0.06	2.9042	-4.5108	-0.0455	0.1577	0.0010	0.0952	-1.5532		
36	12.87	-0.07	2.9971	-4.6179	-0.1037	0.0892	-0.0020	0.0976	-1.5408		
37	13.22	-0.05	3.1511	-4.9005	-0.0305	0.2172	-0.0030	0.0918	-1.5552		
38	13.60	-0.06	3.2212	-5.0896	-0.0709	0.1142	0.0050	0.0928	-1.5800		
39	13.97	-0.06	3.3240	-5.2445	-0.0314	0.1159	0.0150	0.0873	-1.5778		
40	14.30	-0.06	3.4412	-5.4367	-0.0376	0.1186	0.0110	0.0878	-1.5799		
41	14.65	-0.06	3.5560	-5.6194	-0.0877	0.2058	0.0150	0.0833	-1.5802		
42	15.01	-0.07	3.6771	-5.7479	-0.0853	0.0984	0.0160	0.0794	-1.5631		
43	15.36	-0.07	3.7932	-5.9934	-0.1582	0.2294	0.0140	0.0741	-1.5800		
44	15.70	-0.07	3.8770	-6.1227	-0.1352	0.2063	0.0140	0.0740	-1.5792		
45	16.03	-0.06	4.0119	-6.3345	-0.0935	0.1639	0.0180	0.0726	-1.5789		
46	16.37	-0.06	4.1158	-6.4960	-0.1079	0.2600	0.0160	0.0690	-1.5783		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	43	0.85	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
47	16.70	-0.07	4.2233	-6.6186	-0.0953	0.2204	0.0150	0.0661	-1.5671		
48	17.02	-0.08	4.3221	-6.8109	-0.1265	0.2921	0.0130	0.0617	-1.5758		
49	17.33	-0.08	4.3265	-6.8970	-0.1424	0.3773	-0.0170	0.0641	-1.5941		
50	17.67	-0.09	4.4562	-7.1146	-0.2499	0.4428	-0.0280	0.0606	-1.5966		
51	17.99	-0.08	4.5348	-7.2556	-0.1878	0.3599	-0.0280	0.0574	-1.6030		
52	18.30	-0.08	4.5927	-7.3237	-0.1650	0.3600	-0.0220	0.0552	-1.5946		
53	18.63	-0.07	4.6795	-7.5551	-0.1155	0.3986	-0.0140	0.0530	-1.6145		
54	18.96	-0.08	4.7649	-7.6667	-0.1217	0.2463	-0.0110	0.0505	-1.6090		
55	19.29	-0.09	4.8158	-7.6330	-0.1665	0.2241	-0.0440	0.0541	-1.5850		
56	19.61	-0.08	4.9266	-7.7241	-0.0586	0.0910	-0.0480	0.0481	-1.5678		
57	19.95	-0.09	5.0377	-7.9017	-0.1433	0.1266	-0.0520	0.0467	-1.5685		
58	20.27	-0.08	5.1346	-8.0864	-0.1081	0.1063	-0.0530	0.0427	-1.5749		
59	20.61	-0.08	5.2110	-8.1993	-0.1079	0.1740	-0.0600	0.0358	-1.5735		
60	20.93	-0.10	5.3146	-8.3853	-0.1223	0.1632	-0.0630	0.0351	-1.5778		
61	21.27	-0.09	5.3838	-8.4632	-0.0993	0.2790	-0.0690	0.0288	-1.5720		
62	21.58	-0.10	5.4706	-8.5337	-0.1343	0.2200	-0.0730	0.0191	-1.5599		
63	21.88	-0.09	5.5589	-8.6633	-0.0430	0.1802	-0.0800	0.0178	-1.5585		
64	22.19	-0.10	5.6629	-8.7749	-0.0800	0.0720	-0.0870	0.0109	-1.5496		
65	22.49	-0.09	5.7463	-8.8808	-0.0096	0.1224	-0.0910	0.0088	-1.5455		
66	22.81	-0.10	5.8400	-8.9859	-0.0113	0.0018	-0.1000	0.0006	-1.5387		
67	23.12	-0.10	5.9648	-9.1226	-0.0464	0.0270	-0.0930	-0.0038	-1.5294		
68	23.43	-0.10	6.0344	-9.1971	-0.0732	0.1775	-0.0970	-0.0091	-1.5241		
69	23.73	-0.10	6.0778	-9.0659	-0.1123	0.2462	-0.0790	-0.0076	-1.4916		
70	24.08	-0.09	6.1821	-9.2169	-0.0875	0.3015	-0.0800	-0.0124	-1.4909		
71	24.37	-0.09	6.2498	-9.2396	-0.0653	0.3474	-0.0740	-0.0192	-1.4784		
72	24.68	-0.10	6.3349	-9.3957	-0.1350	0.4279	-0.0780	-0.0214	-1.4832		
73	24.97	-0.11	6.4228	-9.4488	-0.1555	0.3247	-0.0760	-0.0273	-1.4711		
74	25.27	-0.11	6.5508	-9.5921	-0.1782	0.3574	-0.0810	-0.0303	-1.4643		
75	25.56	-0.10	6.6966	-9.6292	-0.0591	0.3017	-0.0850	-0.0381	-1.4379		
76	25.87	-0.10	6.7981	-9.7223	-0.1028	0.3379	-0.0990	-0.0370	-1.4302		
77	26.16	-0.10	6.8625	-9.7375	-0.1256	0.2808	-0.0900	-0.0422	-1.4189		
78	26.46	-0.11	6.9417	-9.6764	-0.2039	0.4314	-0.1060	-0.0372	-1.3939		
79	26.76	-0.12	7.0211	-9.8215	-0.1539	0.1474	-0.1120	-0.0504	-1.3989		
80	27.06	-0.12	7.1229	-9.6930	-0.2051	0.3781	-0.1180	-0.0507	-1.3608		
81	27.38	-0.12	7.1753	-9.7174	-0.2839	0.5234	-0.1240	-0.0537	-1.3543		
82	27.67	-0.11	7.3143	-9.6842	-0.0193	0.1660	-0.1210	-0.0584	-1.3240		
83	27.96	-0.11	7.4083	-9.7337	-0.0522	0.2390	-0.1290	-0.0605	-1.3139		
84	28.26	-0.12	7.4875	-9.6036	-0.0808	0.1341	-0.1260	-0.0634	-1.2826		
85	28.58	-0.10	7.5841	-9.5419	0.0281	0.2076	-0.1280	-0.0609	-1.2581		
86	28.89	-0.12	7.6316	-9.5604	-0.0634	0.1577	-0.1290	-0.0667	-1.2527		
87	29.19	-0.11	7.7146	-9.3486	0.0500	0.0790	-0.1220	-0.0723	-1.2118		
88	29.52	-0.10	7.7867	-9.2886	0.1320	-0.1868	-0.1150	-0.0727	-1.1929		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
0	43	0.85	1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.75	-0.01	-0.0375	0.0017	-0.0139	-0.0467	0.3705	-0.1052	0.0045	-0.0475	-0.0428	0.4520
2	-2.49	-0.02	-0.0375	0.0018	-0.0135	-0.0480	0.3705	-0.0954	0.0042	-0.0457	-0.0445	0.4789
3	-1.93	-0.04	-0.0375	0.0018	-0.0139	-0.0480	0.3705	-0.0743	0.0034	-0.0331	-0.0464	0.4449
4	-1.33	-0.02	-0.0301	0.0016	-0.0147	-0.0548	0.4894	-0.0528	0.0024	-0.0225	-0.0454	0.4260
5	-0.79	-0.03	-0.0448	0.0019	-0.0131	-0.0424	0.2930	-0.0347	0.0015	-0.0123	-0.0447	0.3534
6	-0.24	-0.02	-0.0374	0.0017	-0.0140	-0.0454	0.3733	-0.0158	0.0004	-0.0055	-0.0285	0.3459
7	0.28	-0.03	-0.0375	0.0017	-0.0139	-0.0467	0.3705	-0.0002	-0.0007	0.0014	3.7493	-7.1668
8	0.82	-0.02	-0.0375	0.0017	-0.0139	-0.0467	0.3705	0.0171	-0.0014	0.0085	-0.0848	0.4970
9	1.31	-0.02	-0.0320	0.0017	-0.0146	-0.0531	0.4551	0.0325	-0.0021	0.0166	-0.0661	0.5117
10	1.84	-0.02	-0.0301	0.0016	-0.0147	-0.0531	0.4894	0.0496	-0.0029	0.0246	-0.0585	0.4965
11	2.32	-0.03	-0.0301	0.0016	-0.0147	-0.0548	0.4894	0.0748	-0.0036	0.0351	-0.0488	0.4696
12	2.81	-0.03	-0.0246	0.0015	-0.0154	-0.0630	0.6259	0.0949	-0.0040	0.0445	-0.0427	0.4691
13	3.28	-0.03	-0.0247	0.0015	-0.0153	-0.0627	0.6207	0.1167	-0.0041	0.0547	-0.0351	0.4686
14	3.74	-0.04	-0.0192	0.0015	-0.0160	-0.0781	0.8332	0.1403	-0.0041	0.0641	-0.0292	0.4572
15	4.18	-0.04	-0.0192	0.0014	-0.0160	-0.0755	0.8332	0.1590	-0.0037	0.0721	-0.0233	0.4533
16	4.65	-0.04	-0.0137	0.0014	-0.0167	-0.1022	1.2164	0.1846	-0.0031	0.0807	-0.0168	0.4372
17	5.10	-0.06	-0.0228	0.0015	-0.0156	-0.0658	0.6841	0.2065	-0.0021	0.0893	-0.0104	0.4325
18	5.55	-0.04	-0.0247	0.0015	-0.0153	-0.0627	0.6207	0.2266	-0.0012	0.0985	-0.0053	0.4347
19	6.01	-0.04	-0.0321	0.0017	-0.0145	-0.0530	0.4516	0.2522	-0.0009	0.1068	-0.0036	0.4236
20	6.45	-0.05	-0.0229	0.0015	-0.0155	-0.0677	0.6782	0.2708	-0.0002	0.1155	-0.0009	0.4266
21	6.92	-0.06	-0.0247	0.0015	-0.0153	-0.0627	0.6207	0.2963	0.0005	0.1231	0.0017	0.4155
22	7.36	-0.06	-0.0320	0.0017	-0.0146	-0.0531	0.4551	0.3265	0.0008	0.1340	0.0026	0.4104
23	7.80	-0.06	-0.0228	0.0015	-0.0156	-0.0658	0.6841	0.3450	0.0009	0.1436	0.0028	0.4161
24	8.22	-0.07	-0.0375	0.0017	-0.0139	-0.0454	0.3705	0.3676	0.0013	0.1501	0.0035	0.4083
25	8.67	-0.08	-0.0302	0.0016	-0.0148	-0.0546	0.4888	0.3913	0.0016	0.1594	0.0042	0.4073
26	9.06	-0.07	-0.0301	0.0015	-0.0147	-0.0515	0.4894	0.4100	0.0019	0.1682	0.0048	0.4103
27	9.46	-0.08	-0.0319	0.0015	-0.0145	-0.0486	0.4555	0.4444	0.0025	0.1757	0.0056	0.3953
28	9.88	-0.07	-0.0190	0.0013	-0.0160	-0.0710	0.8437	0.4704	0.0035	0.1854	0.0074	0.3942
29	10.28	-0.07	-0.0190	0.0013	-0.0160	-0.0710	0.8437	0.4810	0.0038	0.1912	0.0080	0.3974
30	10.68	-0.08	-0.0117	0.0012	-0.0165	-0.1008	1.4443	0.5068	0.0048	0.1988	0.0096	0.3922
31	11.09	-0.08	-0.0227	0.0014	-0.0157	-0.0617	0.6900	0.5348	0.0054	0.2045	0.0102	0.3824
32	11.46	-0.07	-0.0301	0.0015	-0.0148	-0.0515	0.4927	0.5536	0.0064	0.2126	0.0116	0.3840
33	11.83	-0.06	-0.0026	0.0011	-0.0179	-0.4422	6.8717	0.5742	0.0076	0.2199	0.0132	0.3830
34	12.20	-0.07	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.5958	0.0086	0.2231	0.0144	0.3745
35	12.54	-0.06	0.0104	0.0008	-0.0193	0.0817	-1.8591	0.6167	0.0100	0.2309	0.0163	0.3744
36	12.87	-0.07	0.0048	0.0010	-0.0187	0.2187	-3.8960	0.6364	0.0107	0.2371	0.0169	0.3726
37	13.22	-0.05	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.6617	0.0117	0.2437	0.0178	0.3683
38	13.60	-0.06	0.0177	0.0008	-0.0202	0.0452	-1.1414	0.6858	0.0132	0.2510	0.0192	0.3660
39	13.97	-0.06	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.7055	0.0139	0.2556	0.0197	0.3623
40	14.30	-0.06	0.0306	0.0006	-0.0216	0.0196	-0.7060	0.7264	0.0147	0.2624	0.0203	0.3613
41	14.65	-0.06	0.0435	0.0003	-0.0231	0.0080	-0.5312	0.7477	0.0158	0.2675	0.0211	0.3578
42	15.01	-0.07	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.7634	0.0166	0.2700	0.0217	0.3536
43	15.38	-0.07	0.0435	0.0003	-0.0231	0.0080	-0.5312	0.7818	0.0179	0.2766	0.0230	0.3538
44	15.70	-0.07	0.0305	0.0006	-0.0215	0.0197	-0.7061	0.8028	0.0187	0.2803	0.0233	0.3492
45	16.03	-0.06	-0.0835	0.0006	-0.0094	-0.0078	-0.1123	0.8183	0.0192	0.2849	0.0235	0.3481
46	16.37	-0.06	0.0433	0.0003	-0.0230	0.0081	-0.5105	0.8359	0.0199	0.2878	0.0239	0.3443

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		43	0.85	1.7	0.0	82M3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	LB2	XCPF2	YCPF2
47	16.70	-0.07	0.0433	0.0003	-0.0230	0.0081	-0.5305	0.8585	0.0221	0.2936	0.0257	0.3419
48	17.02	-0.08	0.0434	0.0003	-0.0230	0.0081	-0.5308	0.8799	0.0235	0.2977	0.0267	0.3383
49	17.33	-0.08	-0.0466	-0.0000	0.0054	0.0011	-0.1153	0.8874	0.0233	0.2988	0.0263	0.3367
50	17.67	-0.09	-0.0283	-0.0004	0.0033	0.0141	-0.1155	0.9045	0.0254	0.3060	0.0281	0.3383
51	17.99	-0.08	0.0799	-0.0003	-0.0271	-0.0038	-0.3389	0.9247	0.0267	0.3072	0.0289	0.3322
52	18.30	-0.08	-0.0229	-0.0004	0.0027	0.0175	-0.1166	0.9342	0.0283	0.3103	0.0303	0.3321
53	18.63	-0.07	-0.0119	-0.0006	0.0014	0.0504	-0.1206	0.9566	0.0306	0.3140	0.0320	0.3282
54	18.96	-0.08	-0.0101	-0.0006	0.0012	0.0643	-0.1222	0.9789	0.0311	0.3169	0.0318	0.3237
55	19.29	-0.09	-0.0173	-0.0005	0.0020	0.0318	-0.1177	1.0018	0.0316	0.3222	0.0315	0.3216
56	19.61	-0.08	-0.0464	-0.0002	0.0053	0.0043	-0.1151	1.0198	0.0314	0.3271	0.0308	0.3208
57	19.95	-0.09	-0.0465	-0.0001	0.0053	0.0032	-0.1141	1.0443	0.0314	0.3337	0.0301	0.3195
58	20.27	-0.08	-0.0465	-0.0001	0.0053	0.0032	-0.1141	1.0606	0.0318	0.3379	0.0300	0.3186
59	20.61	-0.08	-0.0355	-0.0003	0.0041	0.0084	-0.1147	1.0888	0.0325	0.3427	0.0304	0.3207
60	20.93	-0.10	-0.0101	-0.0006	0.0012	0.0643	-0.1222	1.0888	0.0336	0.3454	0.0308	0.3172
61	21.27	-0.09	-0.0046	-0.0007	0.0007	0.1630	-0.1450	1.0995	0.0339	0.3483	0.0308	0.3168
62	21.58	-0.10	0.1163	-0.0009	-0.0310	-0.0082	-0.2670	1.1120	0.0351	0.3485	0.0316	0.3134
63	21.88	-0.09	0.0002	-0.0010	-0.0008	-0.1219	-0.0936	1.1257	0.0358	0.3534	0.0318	0.3139
64	22.19	-0.10	0.0154	-0.0010	-0.0017	-0.0649	-0.1083	1.1395	0.0370	0.3562	0.0325	0.3126
65	22.49	-0.09	0.0246	-0.0012	-0.0027	-0.0508	-0.1099	1.1560	0.0374	0.3593	0.0324	0.3108
66	22.81	-0.10	0.0154	-0.0010	-0.0017	-0.0649	-0.1083	1.1689	0.0383	0.3633	0.0328	0.3108
67	23.12	-0.10	0.0135	-0.0009	-0.0014	-0.0667	-0.1038	1.1882	0.0383	0.3653	0.0322	0.3075
68	23.43	-0.10	0.0354	-0.0012	-0.0039	-0.0353	-0.1103	1.1862	0.0380	0.3668	0.0320	0.3092
69	23.73	-0.10	0.0736	-0.0019	-0.0082	-0.0258	-0.1111	1.1492	0.0428	0.3506	0.0372	0.3051
70	24.08	-0.09	0.0718	-0.0018	-0.0080	-0.0251	-0.1111	1.1679	0.0427	0.3542	0.0365	0.3033
71	24.37	-0.09	0.0901	-0.0021	-0.0101	-0.0233	-0.1118	1.1644	0.0430	0.3544	0.0370	0.3044
72	24.68	-0.10	0.0992	-0.0022	-0.0110	-0.0227	-0.1113	1.1792	0.0427	0.3580	0.0362	0.3036
73	24.97	-0.11	0.1230	-0.0027	-0.0137	-0.0219	-0.1115	1.1844	0.0423	0.3583	0.0357	0.3025
74	25.27	-0.11	0.1158	-0.0026	-0.0129	-0.0224	-0.1115	1.1980	0.0429	0.3626	0.0358	0.3027
75	25.56	-0.10	0.1178	-0.0026	-0.0131	-0.0225	-0.1116	1.2137	0.0434	0.3648	0.0358	0.3006
76	25.87	-0.10	0.1290	-0.0029	-0.0144	-0.0229	-0.1117	1.2217	0.0442	0.3674	0.0362	0.3007
77	26.16	-0.10	0.1253	-0.0028	-0.0140	-0.0227	-0.1121	1.2319	0.0455	0.3676	0.0370	0.2964
78	26.46	-0.11	0.1162	-0.0028	-0.0129	-0.0241	-0.1108	1.2421	0.0440	0.3695	0.0355	0.2975
79	26.76	-0.12	0.1547	-0.0035	-0.0172	-0.0226	-0.1115	1.2504	0.0458	0.3699	0.0367	0.2958
80	27.06	-0.12	0.0817	-0.0025	-0.0090	-0.0306	-0.1099	1.2482	0.0439	0.3736	0.0352	0.2993
81	27.38	-0.12	0.0892	-0.0027	-0.0099	-0.0303	-0.1107	1.2634	0.0465	0.3736	0.0368	0.2957
82	27.67	-0.11	0.0746	-0.0025	-0.0082	-0.0335	-0.1105	1.2671	0.0470	0.3720	0.0371	0.2936
83	27.96	-0.11	0.0618	-0.0022	-0.0068	-0.0364	-0.1102	1.2787	0.0480	0.3736	0.0376	0.2922
84	28.26	-0.12	0.0144	-0.0017	-0.0014	-0.1215	-0.0973	1.2784	0.0478	0.3754	0.0374	0.2936
85	28.58	-0.10	0.0730	-0.0026	-0.0081	-0.0356	-0.1106	1.2754	0.0473	0.3687	0.0371	0.2891
86	28.89	-0.12	0.0511	-0.0023	-0.0056	-0.0460	-0.1091	1.2751	0.0452	0.3626	0.0355	0.2844
87	29.19	-0.11	0.0015	-0.0014	-0.0000	-0.0665	-0.0001	1.2706	0.0460	0.3624	0.0362	0.2852
88	29.52	-0.10	-0.0057	-0.0014	0.0008	0.2543	-0.1405	1.2709	0.0443	0.3620	0.0349	0.2848

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	43	0.85	1-7	0.0	B2WJF12	16.750	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	-0.01	0.1268	-0.0002	-0.0234	-0.0020	-0.1849	-0.1330	0.0039	-0.0323	-0.0297	0.2430
2	-2.49	-0.02	0.1404	-0.0002	-0.0250	-0.0018	-0.1782	-0.1266	0.0037	-0.0300	-0.0296	0.2368
3	-1.93	-0.04	0.1449	-0.0002	-0.0255	-0.0017	-0.1761	-0.0893	0.0029	-0.0203	-0.0325	0.2268
4	-1.33	-0.02	0.1404	-0.0002	-0.0250	-0.0018	-0.1782	-0.0701	0.0020	-0.0096	-0.0292	0.1364
5	-0.79	-0.03	0.1449	-0.0002	-0.0255	-0.0017	-0.1761	-0.0402	0.0010	-0.0035	-0.0261	0.0869
6	-0.24	-0.02	0.1404	-0.0006	-0.0242	-0.0040	-0.1634	-0.0237	-0.0001	0.0064	0.0042	-0.2702
7	0.28	-0.03	0.1479	-0.0007	-0.0233	-0.0051	-0.1577	-0.0066	-0.0010	0.0128	0.1591	-1.9395
8	0.82	-0.02	0.1421	-0.0007	-0.0202	-0.0053	-0.1425	0.0236	-0.0021	0.0202	-0.0890	0.8544
9	1.31	-0.02	0.1555	-0.0009	-0.0218	-0.0061	-0.1401	0.0456	-0.0032	0.0296	-0.0713	0.6490
10	1.84	-0.02	0.1550	-0.0011	-0.0208	-0.0071	-0.1345	0.0714	-0.0038	0.0390	-0.0539	0.5461
11	2.32	-0.03	0.1488	-0.0011	-0.0165	-0.0074	-0.1137	0.0974	-0.0045	0.0487	-0.0462	0.5006
12	2.81	-0.03	0.1532	-0.0011	-0.0173	-0.0072	-0.1133	0.1213	-0.0048	0.0572	-0.0400	0.4717
13	3.28	-0.03	0.1403	-0.0007	-0.0167	-0.0053	-0.1194	0.1460	-0.0049	0.0691	-0.0339	0.4736
14	3.74	-0.04	0.1625	-0.0007	-0.0104	-0.0043	-0.1136	0.1806	-0.0048	0.0789	-0.0269	0.4368
15	4.18	-0.04	0.1625	-0.0007	-0.0184	-0.0043	-0.1136	0.1976	-0.0041	0.0883	-0.0207	0.4471
16	4.65	-0.04	0.1627	-0.0006	-0.0185	-0.0037	-0.1136	0.2263	-0.0033	0.0981	-0.0146	0.4335
17	5.10	-0.06	0.1577	-0.0006	-0.0170	-0.0038	-0.1081	0.2416	-0.0025	0.1079	-0.0106	0.4466
18	5.55	-0.04	0.1713	-0.0007	-0.0186	-0.0041	-0.1087	0.2725	-0.0021	0.1154	-0.0077	0.4235
19	6.01	-0.04	0.1741	-0.0001	-0.0156	-0.0009	-0.0895	0.2942	-0.0013	0.1250	-0.0046	0.4250
20	6.45	-0.05	0.1746	-0.0002	-0.0165	-0.0011	-0.0946	0.3196	-0.0006	0.1336	-0.0020	0.4180
21	6.92	-0.06	0.1699	-0.0007	-0.0160	-0.0041	-0.0941	0.3396	-0.0008	0.1435	-0.0024	0.4224
22	7.36	-0.06	0.1701	-0.0002	-0.0160	-0.0012	-0.0942	0.3706	-0.0004	0.1527	-0.0011	0.4054
23	7.80	-0.06	0.1697	-0.0000	-0.0152	-0.0003	-0.0893	0.3970	0.0	0.1644	0.0	0.4141
24	8.22	-0.07	0.1696	-0.0002	-0.0151	-0.0012	-0.0890	0.4173	0.0	0.1698	0.0	0.4068
25	8.67	-0.08	0.1741	-0.0001	-0.0156	-0.0009	-0.0895	0.4411	0.0005	0.1785	0.0011	0.4046
26	9.06	-0.07	0.1765	-0.0002	-0.0117	0.0014	-0.0662	0.4741	0.0012	0.1885	0.0026	0.3975
27	9.46	-0.08	0.1821	0.0006	-0.0140	0.0033	-0.0770	0.4909	0.0020	0.1978	0.0041	0.4029
28	9.88	-0.07	0.1746	-0.0002	-0.0157	0.0011	-0.0900	0.5250	0.0029	0.2049	0.0055	0.3903
29	10.28	-0.07	0.1769	0.0006	-0.0118	0.0034	-0.0664	0.5449	0.0036	0.2141	0.0066	0.3928
30	10.68	-0.08	0.1687	0.0006	-0.0125	0.0036	-0.0740	0.5619	0.0043	0.2221	0.0077	0.3953
31	11.09	-0.08	0.1806	0.0007	-0.0105	0.0042	-0.0583	0.5820	0.0053	0.2286	0.0091	0.3932
32	11.46	-0.07	0.1824	0.0007	-0.0141	0.0038	-0.0774	0.6043	0.0060	0.2347	0.0099	0.3883
33	11.83	-0.06	0.1826	0.0012	-0.0142	0.0066	-0.0775	0.6323	0.0068	0.2433	0.0108	0.3848
34	12.20	-0.07	0.1771	0.0011	-0.0118	0.0062	-0.0666	0.6523	0.0076	0.2516	0.0117	0.3858
35	12.54	-0.06	0.1858	0.0011	-0.0120	0.0059	-0.0645	0.6868	0.0093	0.2653	0.0135	0.3864
36	12.87	-0.07	0.1772	0.0007	-0.0115	0.0042	-0.0669	0.7007	0.0096	0.2688	0.0138	0.3836
37	13.22	-0.05	0.1826	0.0012	-0.0133	0.0068	-0.0726	0.7293	0.0107	0.2775	0.0147	0.3805
38	13.60	-0.06	0.1914	0.0017	-0.0134	0.0091	-0.0701	0.7434	0.0114	0.2832	0.0154	0.3810
39	13.97	-0.06	0.1982	0.0018	-0.0101	0.0091	-0.0507	0.7662	0.0123	0.2914	0.0160	0.3793
40	14.30	-0.06	0.1757	0.0012	-0.0083	0.0071	-0.0470	0.7890	0.0127	0.2977	0.0162	0.3773
41	14.65	-0.06	0.1757	0.0012	-0.0083	0.0071	-0.0470	0.8066	0.0142	0.3041	0.0177	0.3771
42	15.01	-0.07	0.1830	0.0018	-0.0058	0.0098	-0.0318	0.8224	0.0151	0.3111	0.0184	0.3783
43	15.36	-0.07	0.1977	0.0015	-0.0100	0.0076	-0.0507	0.8471	0.0165	0.3173	0.0195	0.3745
44	15.70	-0.07	0.1827	0.0017	-0.0058	0.0096	-0.0319	0.8629	0.0179	0.3222	0.0208	0.3734
45	16.03	-0.06	0.1753	0.0018	-0.0083	0.0106	-0.0473	0.8789	0.0190	0.3268	0.0216	0.3718
46	16.37	-0.06	0.1960	0.0019	-0.0073	0.0097	-0.0372	0.8984	0.0197	0.3336	0.0220	0.3713

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	43	0.85	1.7	0.0	BZNF12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
47	16.70	-0.07	0.1973	0.0017	-0.0100	0.0089	-0.0505	0.9148	0.0214	0.3361	0.0234	0.3674
48	17.02	-0.08	0.1980	0.0022	-0.0105	0.0114	-0.0552	0.9254	0.0232	0.3418	0.0251	0.3693
49	17.33	-0.08	0.2001	0.0023	-0.0078	0.0115	-0.0391	0.9381	0.0251	0.3459	0.0267	0.3687
50	17.67	-0.09	0.1837	0.0017	-0.0093	0.0095	-0.0506	0.9567	0.0271	0.3498	0.0284	0.3656
51	17.99	-0.08	0.1970	0.0022	-0.0101	0.0114	-0.0510	0.9672	0.0281	0.3539	0.0291	0.3659
52	18.30	-0.08	0.1968	0.0019	-0.0099	0.0097	-0.0504	0.9801	0.0290	0.3553	0.0296	0.3625
53	18.63	-0.07	0.2126	0.0023	-0.0077	0.0108	-0.0360	0.9977	0.0291	0.3593	0.0292	0.3602
54	18.96	-0.08	0.2081	0.0030	-0.0064	0.0147	-0.0306	1.0118	0.0303	0.3638	0.0299	0.3596
55	19.29	-0.09	0.2049	0.0030	-0.0084	0.0149	-0.0411	0.9597	0.0395	0.3534	0.0412	0.3682
56	19.61	-0.08	0.1995	0.0030	-0.0061	0.0153	-0.0307	0.9606	0.0402	0.3512	0.0419	0.3656
57	19.95	-0.09	0.2126	0.0030	-0.0065	0.0143	-0.0323	0.9965	0.0373	0.3551	0.0374	0.3564
58	20.27	-0.08	0.2175	0.0028	-0.0082	0.0129	-0.0378	1.0084	0.0361	0.3605	0.0358	0.3575
59	20.61	-0.08	0.2246	0.0031	-0.0058	0.0138	-0.0256	0.9997	0.0371	0.3666	0.0371	0.3667
60	20.93	-0.10	0.2198	0.0036	-0.0044	0.0164	-0.0198	1.0192	0.0376	0.3704	0.0369	0.3634
61	21.27	-0.09	0.2197	0.0036	-0.0044	0.0164	-0.0200	1.0305	0.0377	0.3734	0.0366	0.3623
62	21.58	-0.10	0.2246	0.0032	-0.0057	0.0142	-0.0252	1.0379	0.0382	0.3757	0.0368	0.3670
63	21.88	-0.09	0.2197	0.0036	-0.0044	0.0164	-0.0200	1.0418	0.0393	0.3771	0.0377	0.3620
64	22.19	-0.10	0.2230	0.0038	-0.0022	0.0173	-0.0098	1.0535	0.0403	0.3782	0.0383	0.3590
65	22.49	-0.09	0.2250	0.0043	-0.0057	0.0191	-0.0255	1.0614	0.0400	0.3810	0.0377	0.3589
66	22.81	-0.10	0.2366	0.0040	-0.0038	0.0169	-0.0159	1.0676	0.0400	0.3820	0.0375	0.3578
67	23.12	-0.10	0.2249	0.0036	-0.0058	0.0160	-0.0256	1.0847	0.0403	0.3863	0.0371	0.3562
68	23.43	-0.10	0.2367	0.0038	-0.0037	0.0163	-0.0158	1.1010	0.0408	0.3886	0.0371	0.3529
69	23.73	-0.10	0.2381	0.0039	-0.0065	0.0166	-0.0271	1.1064	0.0403	0.3897	0.0364	0.3522
70	24.08	-0.09	0.2326	0.0038	-0.0033	0.0165	-0.0142	1.1245	0.0405	0.3968	0.0360	0.3529
71	24.37	-0.09	0.2418	0.0043	-0.0043	0.0180	-0.0179	1.1321	0.0407	0.3973	0.0360	0.3510
72	24.68	-0.10	0.2437	0.0043	-0.0079	0.0178	-0.0324	1.1429	0.0404	0.4018	0.0353	0.3516
73	24.97	-0.11	0.2523	0.0043	-0.0080	0.0172	-0.0318	1.1573	0.0407	0.4001	0.0352	0.3457
74	25.27	-0.11	0.2542	0.0045	-0.0032	0.0179	-0.0126	1.1607	0.0404	0.4047	0.0348	0.3486
75	25.56	-0.10	0.2479	0.0045	-0.0066	0.0181	-0.0266	1.1706	0.0403	0.4079	0.0345	0.3484
76	25.87	-0.10	0.2531	0.0049	-0.0081	0.0194	-0.0319	1.1885	0.0401	0.4081	0.0338	0.3434
77	26.16	-0.10	0.2549	0.0050	-0.0033	0.0198	-0.0128	1.1897	0.0400	0.4108	0.0337	0.3453
78	26.46	-0.11	0.2515	0.0045	-0.0054	0.0179	-0.0215	1.1749	0.0370	0.3961	0.0315	0.3371
79	26.76	-0.12	0.2598	0.0049	-0.0046	0.0189	-0.0178	1.1926	0.0392	0.4101	0.0329	0.3439
80	27.06	-0.12	0.2515	0.0044	-0.0054	0.0175	-0.0215	1.1595	0.0347	0.3867	0.0299	0.3335
81	27.38	-0.12	0.2517	0.0049	-0.0054	0.0195	-0.0216	1.1838	0.0356	0.3946	0.0301	0.3333
82	27.67	-0.11	0.2598	0.0049	-0.0046	0.0189	-0.0178	1.1770	0.0352	0.3916	0.0299	0.3327
83	27.96	-0.11	0.2674	0.0050	-0.0021	0.0189	-0.0078	1.1794	0.0337	0.3906	0.0286	0.3312
84	28.26	-0.12	0.2733	0.0049	-0.0053	0.0181	-0.0195	1.1647	0.0311	0.3796	0.0267	0.3259
85	28.58	-0.10	0.2735	0.0050	-0.0054	0.0185	-0.0196	1.1713	0.0327	0.3868	0.0279	0.3302
86	28.89	-0.12	0.2703	0.0049	-0.0075	0.0181	-0.0279	1.1697	0.0317	0.3858	0.0271	0.3298
87	29.19	-0.11	0.2685	0.0062	-0.0022	0.0231	-0.0083	1.1560	0.0308	0.3769	0.0266	0.3260
88	29.52	-0.10	0.2907	0.0062	-0.0040	0.0215	-0.0138	1.1531	0.0300	0.3734	0.0260	0.3239

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	44	0.92	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.75	-0.03	-0.4978	0.5890	0.0147	0.0434	0.0100	0.1752	-1.1631		
2	-2.75	-0.04	-0.5001	0.5372	0.0684	-0.0837	0.0120	0.1754	-1.0741		
3	-2.39	-0.04	-0.4448	0.4938	-0.0056	-0.0392	0.0090	0.1764	-1.1100		
4	-1.76	-0.04	-0.3225	0.3485	0.0168	0.0925	0.0080	0.1812	-1.0806		
5	-1.19	-0.03	-0.2210	0.2374	0.0558	0.0065	0.0120	0.1801	-1.0742		
6	-0.61	-0.02	-0.1179	0.1440	0.0468	-0.0255	0.0080	0.1850	-1.2219		
7	-0.08	-0.03	-0.0476	0.0856	-0.0143	0.0220	0.0090	0.1903	-1.7992		
8	0.47	-0.02	0.0329	0.0419	0.0174	-0.0084	0.0060	0.1899	-1.2748		
9	0.96	-0.04	0.1021	-0.0409	-0.0665	-0.0119	0.0060	0.1952	-0.4010		
10	1.48	-0.04	0.1801	-0.1031	0.0177	-0.0538	0.0110	0.1916	-0.5727		
11	1.97	-0.02	0.2978	-0.2294	0.0235	-0.0199	0.0100	0.1917	-0.7721		
12	2.48	-0.01	0.3978	-0.3650	0.0422	0.0299	0.0070	0.1920	-0.9175		
13	2.94	-0.04	0.4822	-0.4742	0.0736	-0.0460	0.0130	0.1939	-0.9832		
14	3.40	-0.04	0.5810	-0.6385	0.0403	0.0336	0.0070	0.1911	-1.0988		
15	3.89	-0.05	0.6960	-0.7684	-0.0318	0.0145	0.0110	0.1920	-1.1041		
16	4.35	-0.04	0.8068	-0.9285	0.0051	0.0219	0.0110	0.1866	-1.1509		
17	4.79	-0.04	0.8992	-1.1149	0.0175	-0.0021	0.0120	0.1876	-1.2399		
18	5.23	-0.07	1.0316	-1.2732	-0.0614	-0.0080	0.0140	0.1900	-1.2343		
19	5.71	-0.05	1.1412	-1.4608	0.0363	0.0462	0.0110	0.1927	-1.2800		
20	6.16	-0.06	1.2520	-1.6439	0.0491	0.0233	0.0150	0.1903	-1.3130		
21	6.62	-0.06	1.3371	-1.7590	0.0197	-0.0336	0.0210	0.1970	-1.3155		
22	7.05	-0.07	1.5066	-1.9863	0.0253	-0.0754	0.0180	0.1913	-1.3184		
23	7.52	-0.08	1.6123	-2.1772	-0.0245	-0.0637	0.0160	0.1845	-1.3504		
24	7.95	-0.09	1.6918	-2.3435	-0.0650	-0.0910	0.0170	0.1820	-1.3852		
25	8.37	-0.07	1.7933	-2.5756	0.0338	0.0267	0.0180	0.1804	-1.4362		
26	8.79	-0.07	1.9363	-2.7829	-0.0065	0.0401	0.0170	0.1754	-1.4372		
27	9.18	-0.09	2.0241	-3.0188	0.0078	-0.0399	0.0180	0.1734	-1.4914		
28	9.60	-0.09	2.1727	-3.2548	0.0114	-0.0849	0.0160	0.1668	-1.4980		
29	10.00	-0.09	2.2957	-3.4719	-0.0272	-0.0179	0.0130	0.1637	-1.5124		
30	10.40	-0.10	2.4030	-3.6311	-0.0528	0.0265	0.0160	0.1611	-1.5111		
31	10.80	-0.08	2.5125	-3.8284	0.0628	0.0841	0.0130	0.1602	-1.5238		
32	11.18	-0.06	2.6217	-4.0223	0.0574	0.0296	0.0110	0.1588	-1.5342		
33	11.56	-0.06	2.7398	-4.2047	0.0279	0.0529	0.0120	0.1530	-1.5347		
34	11.93	-0.07	2.8766	-4.4512	-0.0365	0.0551	0.0090	0.1508	-1.5474		
35	12.29	-0.08	3.0072	-4.6980	-0.1047	0.0136	0.0110	0.1473	-1.5623		
36	12.66	-0.07	3.1101	-4.8371	-0.0476	0.0850	0.0090	0.1434	-1.5553		
37	13.00	-0.05	3.2267	-5.0363	0.0610	0.0646	0.0050	0.1400	-1.5608		
38	13.37	-0.06	3.3204	-5.2434	-0.0366	0.1292	-0.0020	0.1359	-1.5792		
39	13.73	-0.05	3.4132	-5.4133	0.0462	0.1123	-0.0040	0.1320	-1.5860		
40	14.09	-0.07	3.5052	-5.5852	-0.0460	0.1124	0.0080	0.1276	-1.5934		
41	14.45	-0.07	3.6045	-5.7442	-0.0275	0.0605	0.0100	0.1252	-1.5936		
42	14.79	-0.07	3.6802	-5.8922	-0.0258	0.0061	0.0130	0.1225	-1.6010		
43	15.13	-0.08	3.8325	-6.0784	-0.1251	0.1581	0.0190	0.1180	-1.5860		
44	15.49	-0.07	3.9242	-6.2428	-0.0406	0.1638	0.0210	0.1116	-1.5908		
45	15.81	-0.06	4.0347	-6.4464	-0.0627	0.1888	0.0180	0.1105	-1.5978		
46	16.14	-0.05	4.1427	-6.5346	-0.0109	0.2562	0.0200	0.1121	-1.5774		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	44	0.92	1.7	0.0	82W3F12	14.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.46	-0.07	4.2828	-6.7039	-0.0697	0.1546	0.0160	0.1067	-1.5653		
48	16.82	-0.09	4.3530	-6.8501	-0.1713	0.2528	0.0200	0.1008	-1.5736		
49	17.13	-0.09	4.4425	-7.0174	-0.1859	0.1802	0.0100	0.0959	-1.5796		
50	17.46	-0.08	4.5321	-7.1388	-0.1581	0.2743	0.0060	0.0885	-1.5752		
51	17.77	-0.09	4.6494	-7.3170	-0.1767	0.3063	0.0070	0.0889	-1.5748		
52	18.11	-0.09	4.7332	-7.4893	-0.1601	0.2301	-0.0080	0.0802	-1.5823		
53	18.44	-0.07	4.8266	-7.5891	-0.1359	0.4922	-0.0180	0.0793	-1.5724		
54	18.77	-0.09	4.9135	-7.7767	-0.2136	0.3900	-0.0210	0.0751	-1.5827		
55	19.07	-0.10	5.0002	-7.9072	-0.2899	0.3938	-0.0200	0.0748	-1.5814		
56	19.41	-0.08	5.1365	-8.0450	-0.1634	0.3497	-0.0300	0.0751	-1.5662		
57	19.75	-0.09	5.1960	-8.1403	-0.1429	0.4000	-0.0380	0.0701	-1.5666		
58	20.06	-0.11	5.2466	-8.1112	-0.1832	0.2085	-0.0540	0.0726	-1.5460		
59	20.40	-0.11	5.3596	-8.2603	-0.1442	0.1259	-0.0450	0.0629	-1.5412		
60	20.74	-0.09	5.4386	-8.3779	-0.0624	0.2693	-0.0580	0.0634	-1.5405		
61	21.08	-0.10	5.5441	-8.4456	-0.0901	0.1421	-0.0530	0.0603	-1.5234		
62	21.39	-0.09	5.5964	-8.5238	-0.0826	0.1586	-0.0600	0.0568	-1.5231		
63	21.73	-0.09	5.7004	-8.6554	-0.0379	0.0760	-0.0610	0.0512	-1.5184		
64	22.03	-0.10	5.8018	-8.7875	-0.1066	0.1422	-0.0550	0.0550	-1.5146		
65	22.31	-0.10	5.8745	-8.7853	-0.1172	0.1621	-0.0710	0.0469	-1.4955		
66	22.63	-0.09	5.9571	-8.8839	-0.0614	0.2194	-0.0760	0.0396	-1.4913		
67	22.94	-0.10	6.0687	-8.9421	-0.0462	0.0317	-0.0810	0.0390	-1.4817		
68	23.27	-0.11	6.1454	-9.0495	-0.1204	0.0666	-0.0860	0.0387	-1.4726		
69	23.58	-0.09	6.2412	-9.0926	0.0138	0.1247	-0.0860	0.0324	-1.4569		
70	23.90	-0.10	6.3337	-9.1121	-0.0712	0.1087	-0.1010	0.0268	-1.4387		
71	24.21	-0.11	6.4251	-9.1891	-0.1324	0.1433	-0.0990	0.0230	-1.4302		
72	24.53	-0.10	6.5423	-9.2883	-0.0430	0.1262	-0.1020	0.0222	-1.4197		
73	24.82	-0.12	6.6367	-9.3174	-0.1245	0.1103	-0.1020	0.0195	-1.4039		
74	25.12	-0.11	6.7030	-9.3372	-0.1896	0.3214	-0.1100	0.0205	-1.3930		
75	25.44	-0.10	6.8182	-9.3805	-0.1203	0.2354	-0.1090	0.0175	-1.3758		
76	25.73	-0.10	6.9299	-9.2569	-0.1512	0.2686	-0.1140	0.0201	-1.3358		
77	26.04	-0.10	7.0026	-9.2777	-0.1081	0.2373	-0.1130	0.0213	-1.3249		
78	26.32	-0.11	7.0880	-9.2302	-0.1171	0.1099	-0.1060	0.0191	-1.3022		
79	26.64	-0.11	7.1689	-9.1505	-0.1239	0.3864	-0.1270	0.0192	-1.2764		
80	26.93	-0.11	7.2321	-9.1280	-0.1106	0.2538	-0.1200	0.0128	-1.2622		
81	27.26	-0.12	7.3539	-9.0587	-0.1489	0.2074	-0.1280	0.0122	-1.2318		
82	27.57	-0.13	7.4608	-9.0513	-0.1710	0.1864	-0.1200	0.0034	-1.2132		
83	27.88	-0.12	7.5550	-8.9532	-0.0527	0.0728	-0.1290	0.0053	-1.1851		
84	28.17	-0.12	7.6155	-8.9499	-0.1773	0.2412	-0.1420	0.0035	-1.1752		
85	28.51	-0.09	7.7400	-8.7892	0.1475	-0.0785	-0.0820	-0.0036	-1.1356		
86	28.82	-0.11	7.8556	-8.7571	-0.0099	0.0739	-0.1150	-0.0034	-1.1148		
87	29.12	-0.14	8.0209	-8.8295	-0.1354	-0.1084	-0.1140	-0.0271	-1.1008		
88	29.47	-0.11	8.1813	-8.3983	0.0340	-0.0226	-0.1350	-0.0284	-1.0265		
89	29.78	-0.07	8.3862	-8.6001	0.0886	0.1848	-0.1360	-0.0412	-1.0255		
90	30.11	-0.19	8.4747	-8.5320	-0.3867	-0.3284	-0.1090	-0.0839	-1.0068		

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	4.92	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.75	-0.03	-0.0264	0.0010	-0.0132	-0.0398	0.4999	-0.1408	0.0066	-0.0453	-0.0469	0.3219
2	-2.75	-0.04	-0.0379	0.0012	-0.0118	-0.0330	0.3121	-0.1308	0.0063	-0.0422	-0.0482	0.3225
3	-2.39	-0.04	-0.0492	0.0014	-0.0106	-0.0285	0.2153	-0.1167	0.0055	-0.0369	-0.0475	0.3101
4	-1.76	-0.04	-0.0265	0.0011	-0.0131	-0.0415	0.4955	-0.0934	0.0038	-0.0251	-0.0412	0.2690
5	-1.19	-0.03	-0.0428	0.0013	-0.0113	-0.0315	0.2631	-0.0788	0.0028	-0.0153	-0.0355	0.1936
6	-0.61	-0.02	-0.0346	0.0012	-0.0122	-0.0361	0.3534	-0.0539	0.0013	-0.0040	-0.0250	0.0735
7	-0.08	-0.03	-0.0216	0.0010	-0.0137	-0.0486	0.6341	-0.0446	0.0003	0.0021	-0.0067	-0.0480
8	0.47	-0.02	-0.0216	0.0010	-0.0137	-0.0486	0.6341	-0.0446	0.0003	0.0021	-0.0067	-0.0480
9	0.96	-0.04	-0.0167	0.0009	-0.0143	-0.0569	0.8542	-0.0189	-0.0021	0.0178	0.1137	-0.9419
10	1.48	-0.04	-0.0263	0.0010	-0.0132	-0.0399	0.5005	0.0011	-0.0029	0.0241	-2.6359	21.8787
11	1.97	-0.02	-0.0198	0.0009	-0.0135	-0.0480	0.7019	0.0264	-0.0039	0.0346	-0.1496	1.3105
12	2.48	-0.01	-0.0101	0.0008	-0.0156	-0.0841	1.4817	0.0383	-0.0047	0.0432	-0.1227	1.1269
13	2.94	-0.04	-0.0003	0.0007	-0.0161	-2.3329	53.6665	0.0580	-0.0054	0.0508	-0.0939	0.8763
14	3.40	-0.04	-0.0036	0.0007	-0.0157	-0.02083	4.3610	0.0848	-0.0063	0.0611	-0.0749	0.7212
15	3.89	-0.05	-0.0020	0.0007	-0.0159	-0.3749	7.9332	0.1098	-0.0066	0.0724	-0.0606	0.6593
16	4.35	-0.04	-0.0118	0.0009	-0.0148	-0.0805	1.2509	0.1322	-0.0071	0.0816	-0.0537	0.6176
17	4.79	-0.04	-0.0118	0.0009	-0.0148	-0.0805	1.2569	0.1539	-0.0073	0.0939	-0.0474	0.6100
18	5.23	-0.07	-0.0053	0.0008	-0.0155	-0.1603	2.9181	0.1745	-0.0071	0.1027	-0.0407	0.5888
19	5.71	-0.05	0.0269	0.0008	-0.0245	0.0316	-0.9121	0.2000	-0.0061	0.1110	-0.0307	0.5552
20	6.16	-0.06	-0.0037	0.0008	-0.0156	-0.2297	4.2251	0.2180	-0.0049	0.1178	-0.0227	0.5406
21	6.62	-0.06	-0.0020	0.0007	-0.0158	-0.3749	7.8832	0.2398	-0.0048	0.1260	-0.0202	0.5255
22	7.05	-0.07	-0.0020	0.0007	-0.0158	-0.3749	7.8832	0.2690	-0.0051	0.1381	-0.0191	0.5135
23	7.52	-0.08	0.0045	0.0007	-0.0165	-0.1555	-3.6668	0.2927	-0.0056	0.1466	-0.0193	0.4941
24	7.95	-0.09	-0.0053	0.0008	-0.0154	-0.1603	2.8993	0.3190	-0.0061	0.1563	-0.0193	0.4899
25	8.37	-0.07	0.0061	0.0006	-0.0167	0.1065	-2.7324	0.3400	-0.0065	0.1649	-0.0191	0.4849
26	8.79	-0.07	0.0045	0.0006	-0.0165	0.1444	-3.6668	0.3688	-0.0068	0.1723	-0.0186	0.4671
27	9.18	-0.09	0.0110	0.0005	-0.0172	0.0500	-1.5608	0.3940	-0.0072	0.1828	-0.0183	0.4639
28	9.60	-0.09	0.0062	0.0005	-0.0166	0.0887	-2.6829	0.4191	-0.0075	0.1932	-0.0180	0.4611
29	10.00	-0.09	0.0445	0.0005	-0.0263	0.0124	-0.5904	0.4464	-0.0079	0.2008	-0.0177	0.4499
30	10.40	-0.10	0.0223	0.0003	-0.0185	0.0157	-0.8282	0.4680	-0.0079	0.2064	-0.0169	0.4411
31	10.80	-0.08	0.0271	0.0003	-0.0190	0.0129	-0.7000	0.4873	-0.0079	0.2158	-0.0162	0.4428
32	11.18	-0.06	0.0207	0.0004	-0.0183	0.0193	-0.8842	0.5070	-0.0082	0.2221	-0.0162	0.4381
33	11.56	-0.06	0.0305	0.0002	-0.0194	0.0082	-0.6173	0.5270	-0.0077	0.2283	-0.0147	0.4332
34	11.93	-0.07	0.0289	0.0002	-0.0193	0.0086	-0.6668	0.5526	-0.0078	0.2369	-0.0141	0.4287
35	12.29	-0.08	0.0289	0.0002	-0.0193	0.0086	-0.6668	0.5828	-0.0071	0.2451	-0.0123	0.4205
36	12.66	-0.07	0.0322	0.0001	-0.0197	0.0047	-0.6109	0.5998	-0.0063	0.2508	-0.0105	0.4182
37	13.00	-0.05	0.0387	0.0000	-0.0204	0.0013	-0.5273	0.6199	-0.0053	0.2557	-0.0086	0.4126
38	13.37	-0.06	0.0646	-0.0003	-0.0233	-0.0054	-0.3603	0.6400	-0.0049	0.2615	-0.0077	0.4087
39	13.73	-0.05	0.0711	-0.0004	-0.0240	-0.0063	-0.3377	0.6602	-0.0041	0.2664	-0.0062	0.4035
40	14.09	-0.07	0.0532	-0.0001	-0.0220	-0.0019	-0.4130	0.6785	-0.0033	0.2733	-0.0049	0.4028
41	14.45	-0.07	0.0483	-0.0001	-0.0214	-0.0021	-0.4432	0.7018	-0.0028	0.2771	-0.0041	0.3949
42	14.79	-0.07	0.0804	-0.0000	-0.0304	-0.0006	-0.3782	0.7148	-0.0023	0.2814	-0.0033	0.3936
43	15.13	-0.08	0.0549	-0.0002	-0.0222	-0.0036	-0.4045	0.7278	-0.0013	0.2870	-0.0016	0.3943
44	15.49	-0.07	0.0772	0.0	-0.0301	0.0	-0.3896	0.7477	-0.0005	0.2898	-0.0007	0.3876
45	15.81	-0.06	0.0967	-0.0003	-0.0323	-0.0031	-0.3338	0.7631	0.0003	0.2961	0.0004	0.3880
46	16.14	-0.05	0.0388	0.0	-0.0204	0.0	-0.5250	0.7777	0.0008	0.2980	0.0011	0.3832

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6	44	0.92	1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.46	-0.07	0.0871	-0.0001	-0.0312	-0.0011	-0.3579	0.8012	0.0016	0.3036	0.0020	0.3790
48	16.82	-0.09	0.0534	-0.0001	-0.0221	-0.0019	-0.4140	0.8169	0.0031	0.3084	0.0038	0.3775
49	17.13	-0.09	0.1132	-0.0006	-0.0342	-0.0053	-0.3019	0.8326	0.0047	0.3124	0.0056	0.3752
50	17.46	-0.08	0.0859	-0.0006	-0.0257	-0.0076	-0.2989	0.8470	0.0070	0.3152	0.0083	0.3722
51	17.77	-0.09	0.0763	-0.0005	-0.0247	-0.0066	-0.3234	0.8687	0.0081	0.3204	0.0094	0.3688
52	18.11	-0.09	0.0911	-0.0008	-0.0263	-0.0088	-0.2892	0.8844	0.0091	0.3236	0.0103	0.3659
53	18.44	-0.07	0.1463	-0.0012	-0.0375	-0.0082	-0.2594	0.8951	0.0095	0.3274	0.0106	0.3657
54	18.77	-0.09	0.1303	-0.0014	-0.0308	-0.0111	-0.2362	0.9143	0.0112	0.3301	0.0123	0.3610
55	19.07	-0.10	0.1469	-0.0018	-0.0326	-0.0123	-0.2223	0.9271	0.0121	0.3344	0.0130	0.3607
56	19.41	-0.08	0.1632	-0.0020	-0.0344	-0.0126	-0.2109	0.9493	0.0127	0.3385	0.0134	0.3566
57	19.75	-0.09	0.1633	-0.0021	-0.0345	-0.0129	-0.2112	0.9658	0.0133	0.3403	0.0138	0.3524
58	20.06	-0.11	0.1519	-0.0020	-0.0331	-0.0132	-0.2178	0.9801	0.0125	0.3466	0.0128	0.3536
59	20.40	-0.11	0.1842	-0.0020	-0.0422	-0.0169	-0.2292	1.0008	0.0128	0.3508	0.0128	0.3505
60	20.74	-0.09	0.1635	-0.0023	-0.0344	-0.0144	-0.2105	1.0153	0.0129	0.3554	0.0128	0.3501
61	21.08	-0.10	0.1747	-0.0019	-0.0411	-0.0112	-0.2352	1.0343	0.0132	0.3582	0.0128	0.3464
62	21.39	-0.09	0.1955	-0.0019	-0.0435	-0.0097	-0.2228	1.0429	0.0136	0.3612	0.0130	0.3463
63	21.73	-0.09	0.1743	-0.0013	-0.0412	-0.0077	-0.2365	1.0505	0.0144	0.3654	0.0136	0.3452
64	22.03	-0.10	0.1743	-0.0014	-0.0411	-0.0080	-0.2359	1.0719	0.0144	0.3680	0.0135	0.3433
65	22.31	-0.10	0.1796	-0.0021	-0.0363	-0.0117	-0.2024	1.0779	0.0148	0.3690	0.0137	0.3423
66	22.63	-0.09	0.2024	-0.0021	-0.0443	-0.0104	-0.2192	1.0955	0.0161	0.3728	0.0147	0.3403
67	22.94	-0.10	0.2073	-0.0020	-0.0449	-0.0099	-0.2167	1.1099	0.0166	0.3755	0.0150	0.3383
68	23.27	-0.11	0.2105	-0.0020	-0.0452	-0.0097	-0.2150	1.1215	0.0165	0.3797	0.0148	0.3386
69	23.58	-0.09	0.1700	-0.0019	-0.0352	-0.0115	-0.2074	1.1291	0.0174	0.3797	0.0154	0.3363
70	23.90	-0.10	0.2415	-0.0024	-0.0487	-0.0101	-0.2018	1.1424	0.0182	0.3827	0.0160	0.3350
71	24.21	-0.11	0.1962	-0.0023	-0.0382	-0.0120	-0.1948	1.1498	0.0185	0.3845	0.0161	0.3344
72	24.53	-0.10	0.2267	-0.0024	-0.0473	-0.0107	-0.2068	1.1667	0.0192	0.3877	0.0165	0.3323
73	24.82	-0.12	0.2125	-0.0025	-0.0401	-0.0118	-0.1887	1.1726	0.0196	0.3889	0.0167	0.3317
74	25.12	-0.11	0.2031	-0.0024	-0.0390	-0.0121	-0.1921	1.1742	0.0184	0.3910	0.0157	0.3310
75	25.44	-0.10	0.2080	-0.0025	-0.0396	-0.0120	-0.1903	1.1839	0.0218	0.3868	0.0184	0.3267
76	25.73	-0.10	0.2196	-0.0028	-0.0409	-0.0127	-0.1864	1.1924	0.0212	0.3912	0.0178	0.3281
77	26.04	-0.10	0.2522	-0.0031	-0.0446	-0.0125	-0.1767	1.1781	0.0276	0.3804	0.0235	0.3229
78	26.32	-0.11	0.2128	-0.0024	-0.0402	-0.0115	-0.1889	1.1870	0.0283	0.3816	0.0238	0.3215
79	26.64	-0.11	0.1624	-0.0019	-0.0345	-0.0120	-0.2124	1.2022	0.0238	0.3935	0.0198	0.3273
80	26.93	-0.11	0.2443	-0.0031	-0.0437	-0.0127	-0.1789	1.1882	0.0295	0.3811	0.0248	0.3208
81	27.26	-0.12	0.2264	-0.0029	-0.0417	-0.0130	-0.1840	1.2005	0.0301	0.3814	0.0251	0.3177
82	27.57	-0.13	0.2017	-0.0023	-0.0389	-0.0116	-0.1926	1.2039	0.0300	0.3835	0.0249	0.3185
83	27.88	-0.12	0.2442	-0.0029	-0.0437	-0.0119	-0.1791	1.2051	0.0316	0.3760	0.0262	0.3120
84	28.17	-0.12	0.1473	-0.0010	-0.0382	-0.0068	-0.2595	1.2341	0.0292	0.3916	0.0237	0.3173
85	28.51	-0.09	0.3428	-0.0037	-0.0602	-0.0109	-0.1757	1.1553	0.0277	0.3545	0.0240	0.3068
86	28.82	-0.11	0.2746	-0.0032	-0.0472	-0.0116	-0.1717	1.1963	0.0302	0.3716	0.0253	0.3106
87	29.12	-0.14	0.2602	-0.0027	-0.0455	-0.0106	-0.1749	1.1856	0.0295	0.3650	0.0249	0.3078
88	29.47	-0.11	0.3147	-0.0027	-0.0517	-0.0087	-0.1642	1.2231	0.0292	0.3744	0.0239	0.3061
89	29.78	-0.07	0.1783	-0.0015	-0.0362	-0.0084	-0.2030	1.2189	0.0280	0.3732	0.0230	0.3061
90	30.11	-0.19	0.2101	-0.0014	-0.0452	-0.0069	-0.2151	1.2069	0.0273	0.3725	0.0226	0.3086

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	44	0.92	1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	-2.75	-0.03	0.0759	-0.0017	-0.0085	-0.0224	-0.1121	-0.1591	0.0057	-0.0347	-0.0361	0.2182		
2	-2.75	-0.04	0.0684	-0.0014	-0.0085	-0.0205	-0.1244	-0.1606	0.0058	-0.0351	-0.0364	0.2186		
3	-2.39	-0.04	0.0684	-0.0014	-0.0085	-0.0205	-0.1244	-0.1443	0.0050	-0.0295	-0.0350	0.2043		
4	-1.76	-0.04	0.0638	-0.0018	-0.0072	-0.0282	-0.1135	-0.1137	0.0038	-0.0175	-0.0334	0.1538		
5	-1.19	-0.03	0.0683	-0.0017	-0.0084	-0.0249	-0.1236	-0.0899	0.0027	-0.0103	-0.0300	0.1141		
6	-0.61	-0.02	0.0874	-0.0022	-0.0091	-0.0257	-0.1039	-0.0011	0.0009	0.0028	-0.0147	-0.0138		
7	-0.08	-0.03	0.0874	-0.0023	-0.0091	-0.0269	-0.1039	-0.0366	-0.0006	0.0076	0.0178	-0.2078		
8	0.47	-0.02	0.0860	-0.0028	-0.0067	-0.0326	-0.0784	-0.0190	-0.0021	0.0135	0.1105	-0.7089		
9	0.96	-0.04	0.0964	-0.0028	-0.0049	-0.0296	-0.0506	0.0082	-0.0035	0.0247	-0.4328	3.0161		
10	1.48	-0.04	0.0841	-0.0032	-0.0036	-0.0380	-0.0425	0.0230	-0.0042	0.0305	-0.1826	1.3245		
11	1.97	-0.02	0.0842	-0.0028	-0.0035	-0.0338	-0.0421	0.0525	-0.0053	0.0418	-0.1009	0.7961		
12	2.48	-0.01	0.0842	-0.0028	-0.0035	-0.0338	-0.0421	0.0797	-0.0065	0.0487	-0.0822	0.6118		
13	2.94	-0.04	0.0963	-0.0027	-0.0049	-0.0286	-0.0510	0.1124	-0.0079	0.0599	-0.0703	0.5334		
14	3.40	-0.04	0.0963	-0.0027	-0.0049	-0.0286	-0.0510	0.1300	-0.0087	0.0684	-0.0669	0.5263		
15	3.89	-0.05	0.0817	-0.0028	-0.0012	-0.0349	-0.0150	0.1634	-0.0090	0.0822	-0.0551	0.5033		
16	4.35	-0.04	0.1043	-0.0028	0.0016	-0.0268	0.0149	0.1899	-0.0092	0.0925	-0.0484	0.4870		
17	4.79	-0.04	0.0922	-0.0028	0.0025	-0.0304	0.0317	0.2179	-0.0095	0.1029	-0.0438	0.4723		
18	5.23	-0.07	0.0979	-0.0024	-0.0007	-0.0245	-0.0369	0.2415	-0.0089	0.1117	-0.0371	0.4624		
19	5.71	-0.05	0.1055	-0.0023	-0.0008	-0.0223	-0.0060	0.2668	-0.0085	0.1222	-0.0320	0.4580		
20	6.16	-0.06	0.0920	-0.0028	0.0030	-0.0304	0.0321	0.2910	-0.0082	0.1301	-0.0283	0.4469		
21	6.62	-0.06	0.0998	-0.0028	0.0021	-0.0281	0.0206	0.3152	-0.0086	0.1396	-0.0273	0.4430		
22	7.05	-0.07	0.0951	-0.0023	0.0040	-0.0247	0.0419	0.3437	-0.0085	0.1491	-0.0249	0.4339		
23	7.52	-0.08	0.0933	-0.0023	0.0071	-0.0252	0.0760	0.3696	-0.0091	0.1592	-0.0247	0.4306		
24	7.95	-0.09	0.1025	-0.0023	0.0039	-0.0229	0.0376	0.3984	-0.0100	0.1668	-0.0251	0.4185		
25	8.37	-0.07	0.0947	-0.0027	0.0041	-0.0285	0.0428	0.4187	-0.0101	0.1759	-0.0242	0.4201		
26	8.79	-0.07	0.0931	-0.0027	0.0071	-0.0295	0.0765	0.4491	-0.0104	0.1850	-0.0231	0.4120		
27	9.18	-0.09	0.1047	-0.0026	0.0066	-0.0253	0.0629	0.4798	-0.0101	0.1966	-0.0211	0.4057		
28	9.60	-0.09	0.1110	-0.0023	0.0080	-0.0206	0.0716	0.5085	-0.0103	0.2066	-0.0203	0.4064		
29	10.00	-0.09	0.1007	-0.0016	0.0078	-0.0164	0.0770	0.5266	-0.0098	0.2127	-0.0186	0.4038		
30	10.40	-0.10	0.0916	-0.0023	0.0103	-0.0251	0.1127	0.5470	-0.0099	0.2202	-0.0182	0.4025		
31	10.80	-0.08	0.1116	-0.0023	0.0080	-0.0206	0.0716	0.5730	-0.0092	0.2288	-0.0161	0.3993		
32	11.18	-0.06	0.1071	-0.0022	0.0101	-0.0205	0.0942	0.5933	-0.0093	0.2363	-0.0158	0.3983		
33	11.56	-0.06	0.1120	-0.0019	0.0080	-0.0174	0.0716	0.6159	-0.0090	0.2430	-0.0146	0.3946		
34	11.93	-0.07	0.1107	-0.0022	0.0104	-0.0199	0.0938	0.6387	-0.0090	0.2513	-0.0141	0.3935		
35	12.29	-0.08	0.1097	-0.0015	0.0127	-0.0137	0.1153	0.6705	-0.0084	0.2604	-0.0125	0.3884		
36	12.66	-0.07	0.1073	-0.0016	0.0100	-0.0154	0.0928	0.6835	-0.0083	0.2665	-0.0121	0.3900		
37	13.00	-0.05	0.1093	-0.0016	0.0134	-0.0146	0.1228	0.7081	-0.0076	0.2749	-0.0108	0.3883		
38	13.37	-0.06	0.1092	-0.0018	0.0135	-0.0169	0.1235	0.7296	-0.0069	0.2834	-0.0095	0.3884		
39	13.73	-0.05	0.1138	-0.0015	0.0122	-0.0132	0.1074	0.7541	-0.0059	0.2899	-0.0079	0.3844		
40	14.09	-0.07	0.1215	-0.0011	0.0121	-0.0095	0.0995	0.7699	-0.0048	0.2951	-0.0063	0.3833		
41	14.45	-0.07	0.1135	-0.0015	0.0122	-0.0132	0.1077	0.7843	-0.0040	0.2997	-0.0051	0.3822		
42	14.79	-0.07	0.1034	-0.0011	0.0179	-0.0111	0.1727	0.8020	-0.0030	0.3063	-0.0037	0.3820		
43	15.13	-0.08	0.1142	-0.0005	0.0122	-0.0044	0.1064	0.8267	-0.0021	0.3144	-0.0025	0.3803		
44	15.49	-0.07	0.1095	-0.0015	0.0135	-0.0137	0.1232	0.8413	-0.0007	0.3204	-0.0009	0.3809		
45	15.81	-0.06	0.1217	-0.0011	0.0121	-0.0094	0.0990	0.8633	0.0001	0.3264	0.0001	0.3780		
46	16.14	-0.05	0.1158	-0.0011	0.0165	-0.0099	0.1424	0.8745	0.0012	0.3330	0.0014	0.3808		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	44	0.92	1.7	0.0	BZW3F12	16.750	0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.46	-0.07	0.1088	-0.0008	0.0158	-0.0078	0.1448	0.8866	0.0023	0.3370	0.0026	0.3801
48	16.82	-0.09	0.1129	-0.0005	0.0153	-0.0044	0.1357	0.9037	0.0043	0.3427	0.0048	0.3792
49	17.13	-0.09	0.1128	-0.0009	0.0153	-0.0084	0.1355	0.9205	0.0052	0.3452	0.0056	0.3750
50	17.46	-0.08	0.1102	-0.0004	0.0134	-0.0036	0.1218	0.9276	0.0074	0.3496	0.0080	0.3769
51	17.77	-0.09	0.1131	-0.0004	0.0154	-0.0035	0.1360	0.9473	0.0088	0.3551	0.0093	0.3748
52	18.11	-0.09	0.1044	-0.0004	0.0179	-0.0038	0.1713	0.9598	0.0103	0.3588	0.0108	0.3738
53	18.44	-0.07	0.1220	-0.0009	0.0125	-0.0078	0.1062	0.9762	0.0108	0.3627	0.0111	0.3715
54	18.77	-0.09	0.1224	-0.0009	0.0122	-0.0078	0.0996	0.9897	0.0119	0.3661	0.0120	0.3699
55	19.07	-0.10	0.1169	-0.0000	0.0164	-0.0004	0.1407	1.0084	0.0122	0.3706	0.0121	0.3675
56	19.41	-0.08	0.1273	-0.0003	0.0182	-0.0027	0.1431	1.0225	0.0126	0.3752	0.0124	0.3669
57	19.75	-0.09	0.1243	-0.0008	0.0164	-0.0064	0.1321	1.0243	0.0144	0.3742	0.0141	0.3653
58	20.06	-0.11	0.1355	0.0	0.0173	0.0	0.1280	0.9784	0.0263	0.3627	0.0269	0.3707
59	20.40	-0.11	0.1275	0.0003	0.0183	0.0027	0.1434	0.9898	0.0268	0.3666	0.0271	0.3704
60	20.74	-0.09	0.1274	0.0	0.0182	0.0	0.1433	1.0065	0.0276	0.3705	0.0274	0.3681
61	21.08	-0.10	0.1342	0.0007	0.0205	0.0052	0.1529	1.0209	0.0270	0.3728	0.0264	0.3651
62	21.39	-0.09	0.1434	0.0004	0.0172	0.0031	0.1198	1.0219	0.0269	0.3752	0.0263	0.3672
63	21.73	-0.09	0.1433	0.0007	0.0175	0.0049	0.1253	1.0386	0.0269	0.3764	0.0259	0.3624
64	22.03	-0.10	0.1341	0.0	0.0206	0.0	0.1535	1.0520	0.0270	0.3799	0.0257	0.3612
65	22.31	-0.10	0.1465	0.0007	0.0191	0.0048	0.1305	1.0582	0.0267	0.3802	0.0252	0.3593
66	22.63	-0.09	0.1475	0.0	0.0167	0.0	0.1136	1.0628	0.0270	0.3828	0.0254	0.3602
67	22.94	-0.10	0.1418	0.0008	0.0211	0.0056	0.1492	1.0738	0.0268	0.3856	0.0249	0.3591
68	23.27	-0.11	0.1540	0.0008	0.0198	0.0055	0.1287	1.0882	0.0264	0.3887	0.0243	0.3572
69	23.58	-0.09	0.1536	0.0008	0.0206	0.0055	0.1340	1.0928	0.0273	0.3876	0.0250	0.3547
70	23.90	-0.10	0.1485	0.0013	0.0234	0.0088	0.1575	1.1007	0.0270	0.3926	0.0246	0.3566
71	24.21	-0.11	0.1573	0.0012	0.0205	0.0076	0.1330	1.1042	0.0276	0.3924	0.0250	0.3554
72	24.53	-0.10	0.1512	0.0017	0.0186	0.0112	0.1229	1.1142	0.0279	0.3932	0.0251	0.3529
73	24.82	-0.12	0.1543	0.0014	0.0197	0.0091	0.1278	1.1176	0.0284	0.3939	0.0254	0.3524
74	25.12	-0.11	0.1544	0.0013	0.0198	0.0084	0.1286	1.1248	0.0288	0.3928	0.0256	0.3492
75	25.44	-0.10	0.1650	0.0013	0.0216	0.0079	0.1308	1.1344	0.0280	0.3942	0.0247	0.3475
76	25.73	-0.10	0.1544	0.0011	0.0198	0.0074	0.1286	1.1311	0.0279	0.3902	0.0247	0.3450
77	26.04	-0.10	0.1611	0.0017	0.0220	0.0109	0.1364	1.1449	0.0278	0.4002	0.0243	0.3495
78	26.32	-0.11	0.1727	0.0013	0.0214	0.0075	0.1242	1.1405	0.0270	0.3928	0.0237	0.3444
79	26.64	-0.11	0.1672	0.0013	0.0176	0.0078	0.1053	1.1222	0.0240	0.3783	0.0214	0.3371
80	26.93	-0.11	0.1842	0.0022	0.0224	0.0122	0.1215	1.1326	0.0246	0.3852	0.0218	0.3401
81	27.26	-0.12	0.1655	0.0022	0.0215	0.0133	0.1302	1.1390	0.0243	0.3852	0.0213	0.3382
82	27.57	-0.13	0.1774	0.0022	0.0209	0.0124	0.1179	1.1347	0.0241	0.3826	0.0212	0.3372
83	27.88	-0.12	0.1683	0.0029	0.0242	0.0172	0.1437	1.1424	0.0220	0.3815	0.0193	0.3339
84	28.17	-0.12	0.1627	0.0017	0.0196	0.0108	0.1206	1.1108	0.0207	0.3660	0.0187	0.3295
85	28.51	-0.09	0.1721	0.0033	0.0236	0.0195	0.1374	1.1715	0.0237	0.3983	0.0203	0.3400
86	28.82	-0.11	0.1771	0.0023	0.0209	0.0133	0.1181	1.1423	0.0192	0.3725	0.0168	0.3261
87	29.12	-0.14	0.1727	0.0024	0.0279	0.0142	0.1618	1.1711	0.0198	0.3864	0.0169	0.3300
88	29.47	-0.11	0.1786	0.0029	0.0243	0.0162	0.1361	1.1554	0.0196	0.3841	0.0170	0.3324
89	29.78	-0.07	0.1923	0.0029	0.0264	0.0153	0.1372	1.1636	0.0177	0.3794	0.0152	0.3261
90	30.11	-0.19	0.1814	0.0029	0.0245	0.0160	0.1353	1.1653	0.0179	0.3829	0.0154	0.3286

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	46	0.97	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAP	XCP		
1	-2.75	-0.01	-0.5096	0.5935	0.0819	-0.0627	0.0060	0.2379	-1.1646		
2	-2.49	-0.02	-0.4804	0.5716	0.0192	-0.0779	0.0080	0.2424	-1.1898		
3	-1.90	-0.07	-0.3607	0.4179	0.0107	-0.0820	0.0060	0.2437	-1.1588		
4	-1.34	-0.02	-0.2571	0.2929	0.0213	-0.0618	0.0070	0.2474	-1.1394		
5	-0.76	-0.02	-0.1516	0.2082	0.0528	-0.0499	0.0070	0.2535	-1.3736		
6	-0.22	-0.02	-0.0834	0.1217	0.0338	-0.0523	0.0030	0.2550	-1.4600		
7	0.32	-0.02	0.0174	0.0456	0.0252	-0.1123	0.0070	0.2589	2.6230		
8	0.84	-0.02	0.1055	-0.0307	0.0427	-0.0838	0.0070	0.2595	-0.2910		
9	1.36	-0.02	0.2016	-0.1452	0.0586	-0.0430	0.0030	0.2572	-0.7204		
10	1.86	-0.02	0.2773	-0.2392	0.0101	-0.0831	0.0050	0.2567	-0.8627		
11	2.33	-0.02	0.3911	-0.3856	0.0118	-0.1015	0.0080	0.2546	-0.9859		
12	2.84	-0.02	0.4409	-0.5043	0.0466	-0.0772	0.0050	0.2550	-1.0486		
13	3.29	-0.03	0.5615	-0.6502	-0.0246	-0.1005	0.0100	0.2578	-1.1578		
14	3.78	-0.03	0.7027	-0.8228	0.0221	-0.1069	0.0120	0.2506	-1.1709		
15	4.21	-0.03	0.7790	-0.9706	0.0791	-0.0477	0.0070	0.2493	-1.2460		
16	4.68	-0.04	0.8973	-1.0992	0.0326	-0.0436	0.0080	0.2552	-1.2250		
17	5.13	-0.04	1.0126	-1.3056	0.0410	-0.0714	0.0080	0.2502	-1.2894		
18	5.60	-0.03	1.1188	-1.4753	0.0962	-0.0507	0.0100	0.2475	-1.3187		
19	6.04	-0.05	1.2185	-1.6240	0.0237	-0.0452	0.0150	0.2490	-1.3327		
20	6.48	-0.05	1.3351	-1.7412	0.0774	-0.1213	0.0130	0.2442	-1.3041		
21	6.96	-0.06	1.4454	-1.9296	0.0256	-0.1198	0.0130	0.2429	-1.3350		
22	7.39	-0.06	1.5802	-2.1673	0.0220	-0.0168	0.0100	0.2386	-1.3715		
23	7.84	-0.05	1.6596	-2.3034	0.1028	-0.0419	0.0150	0.2377	-1.3879		
24	8.27	-0.08	1.8005	-2.4927	0.0082	-0.0505	0.0140	0.2427	-1.3844		
25	8.71	-0.08	1.8966	-2.6872	-0.0023	-0.0738	0.0130	0.2315	-1.4169		
26	9.10	-0.08	1.9979	-2.8111	-0.0487	-0.0778	0.0140	0.2355	-1.4070		
27	9.52	-0.08	2.1361	-3.0166	-0.0382	-0.0385	0.0130	0.2339	-1.4122		
28	9.94	-0.08	2.2396	-3.1804	0.0150	-0.0210	0.0120	0.2275	-1.4201		
29	10.34	-0.02	2.3551	-3.3691	-0.0263	0.0388	0.0160	0.2214	-1.4306		
30	10.76	-0.06	2.4666	-3.5682	0.0200	-0.0010	0.0130	0.2146	-1.4406		
31	11.17	-0.06	2.5876	-3.7236	-0.0057	0.0020	0.0150	0.2091	-1.4390		
32	11.53	-0.08	2.6929	-3.8901	-0.0174	-0.0511	0.0150	0.2049	-1.4446		
33	11.88	-0.06	2.7444	-4.0542	0.0200	-0.0150	0.0170	0.2005	-1.4508		
34	12.26	-0.07	2.9315	-4.2351	-0.0298	-0.0303	0.0160	0.1993	-1.4447		
35	12.61	-0.05	3.0230	-4.3872	0.0355	0.0163	0.0140	0.1985	-1.4513		
36	12.97	-0.07	3.1652	-4.6062	-0.0126	-0.0444	0.0180	0.1893	-1.4553		
37	13.30	-0.07	3.2249	-4.7508	-0.0076	-0.0424	0.0150	0.1895	-1.4732		
38	13.66	-0.06	3.3434	-4.8677	0.0080	0.0748	0.0200	0.1842	-1.4559		
39	14.05	-0.05	3.4970	-5.0948	0.0494	-0.0282	0.0190	0.1759	-1.4569		
40	14.39	-0.07	3.5994	-5.2652	-0.0451	0.0351	0.0120	0.1770	-1.4628		
41	14.75	-0.06	3.6834	-5.4447	-0.0058	-0.0149	0.0200	0.1710	-1.4782		
42	15.10	-0.07	3.8107	-5.6069	-0.0623	0.0052	0.0170	0.1678	-1.4714		
43	15.47	-0.08	3.9113	-5.7338	-0.1203	0.0654	0.0140	0.1738	-1.4660		
44	15.78	-0.05	4.0346	-5.9484	-0.0090	0.1306	0.0210	0.1727	-1.4743		
45	16.13	-0.08	4.1644	-6.1061	-0.0688	0.1033	0.0140	0.1681	-1.4663		
46	16.44	-0.08	4.2419	-6.2027	-0.0789	0.1124	0.0130	0.1644	-1.4622		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	UEL1	UEL2	DEL3	DEL4	TRANSITION	
6	46	0.97	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.77	-0.08	4.3502	-6.3873	-0.0514	0.1199	0.0100	0.1597	-1.4683		
48	17.10	-0.08	4.4566	-6.5502	-0.0819	0.1296	-0.0040	0.1543	-1.4698		
49	17.41	-0.08	4.5610	-6.7404	-0.1006	0.2328	-0.0080	0.1504	-1.4778		
50	17.76	-0.08	4.7066	-6.8912	-0.0098	0.2027	-0.0090	0.1442	-1.4642		
51	18.09	-0.08	4.7680	-6.9861	-0.0662	0.1897	-0.0100	0.1425	-1.4652		
52	18.42	-0.07	4.8674	-7.1613	-0.0470	0.1698	-0.0140	0.1392	-1.4713		
53	18.75	-0.09	4.9424	-7.3144	-0.0815	0.1891	-0.0060	0.1392	-1.4651		
54	19.09	-0.09	5.0801	-7.4121	-0.0418	0.1285	-0.0180	0.1330	-1.4590		
55	19.39	-0.08	5.1521	-7.5529	-0.0642	0.2139	-0.0040	0.1240	-1.4660		
56	19.74	-0.09	5.2799	-7.6098	-0.0674	0.1733	-0.0090	0.1203	-1.4413		
57	20.07	-0.09	5.3524	-7.7433	-0.0245	0.0683	-0.0100	0.1129	-1.4467		
58	20.43	-0.08	5.5002	-7.9032	-0.0791	0.1347	-0.0130	0.1065	-1.4369		
59	20.74	-0.09	5.5670	-7.9927	-0.1629	0.2360	-0.0230	0.1036	-1.4357		
60	21.06	-0.07	5.6344	-8.1081	-0.0686	0.2160	-0.0220	0.0933	-1.4390		
61	21.41	-0.08	5.7614	-8.1890	-0.0236	0.2320	-0.0270	0.0885	-1.4213		
62	21.72	-0.09	5.8306	-8.2759	-0.1418	0.3335	-0.0280	0.0859	-1.4194		
63	22.04	-0.10	5.9407	-8.3630	-0.1125	0.1295	-0.0300	0.0778	-1.4077		
64	22.34	-0.10	6.0072	-8.3941	-0.1210	0.2854	-0.0260	0.0679	-1.3973		
65	22.66	-0.09	6.1474	-8.4614	-0.1171	0.3939	-0.0270	0.0668	-1.3764		
66	22.98	-0.10	6.2276	-8.5496	-0.1463	0.3248	-0.0300	0.0644	-1.3729		
67	23.28	-0.10	6.3392	-8.6059	-0.1251	0.2711	-0.0430	0.0599	-1.3576		
68	23.61	-0.09	6.4663	-8.6128	-0.0594	0.2621	-0.0390	0.0572	-1.3320		
69	23.92	-0.09	6.5769	-8.6878	-0.1072	0.4340	-0.0400	0.0597	-1.3209		
70	24.27	-0.10	6.6660	-8.7005	-0.1239	0.3354	-0.0520	0.0515	-1.3092		
71	24.58	-0.10	6.7825	-8.6726	-0.1386	0.2450	-0.0570	0.0502	-1.2787		
72	24.90	-0.11	6.8857	-8.6681	-0.0505	0.2257	-0.0660	0.0505	-1.2589		
73	25.20	-0.11	6.9626	-8.6268	-0.1388	0.3823	-0.0740	0.0494	-1.2390		
74	25.49	-0.11	7.0694	-8.5473	-0.1037	0.3631	-0.0930	0.0541	-1.2091		
75	25.81	-0.10	7.1366	-8.5734	-0.0830	0.3742	-0.0900	0.0409	-1.2013		
76	26.12	-0.12	7.2856	-8.5551	-0.1680	0.2762	-0.0930	0.0403	-1.1742		
77	26.43	-0.10	7.3640	-8.5589	-0.0512	0.3036	-0.0990	0.0377	-1.1623		
78	26.72	-0.11	7.5010	-8.5937	-0.0918	0.2875	-0.1000	0.0341	-1.1457		
79	27.05	-0.11	7.6016	-8.4595	-0.1697	0.4735	-0.1100	0.0244	-1.1129		
80	27.33	-0.11	7.6767	-8.5427	-0.0840	0.2286	-0.1040	0.0214	-1.1128		
81	27.69	-0.11	7.8800	-8.4853	-0.1378	0.3839	-0.1010	0.0121	-1.0768		
82	27.97	-0.12	7.9197	-8.4289	-0.1509	0.2672	-0.1080	0.0061	-1.0643		
83	28.28	-0.12	8.0757	-8.4274	-0.2018	0.4585	-0.1130	-0.0040	-1.0435		
84	28.58	-0.11	8.1861	-8.3680	-0.1650	0.4449	-0.1170	-0.0111	-1.0222		
85	28.89	-0.10	8.2750	-8.4504	0.0066	0.1937	-0.1110	-0.0156	-1.0212		
86	29.20	-0.11	8.3476	-8.3961	-0.0133	0.0266	-0.1200	-0.0278	-1.0098		
87	29.45	-0.15	8.4268	-8.4240	-0.2775	0.0685	-0.1180	-0.0473	-0.9997		

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	46	0.97	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-2.75	-0.01	0.0056	0.0009	-0.0208	0.1607	-3.7204	-0.1417	0.0087	-0.0461	-0.0614	0.3255
2	-2.49	-0.02	-0.0098	0.0011	-0.0191	-0.1173	1.9455	-0.1399	0.0081	-0.0413	-0.0582	0.2953
3	-1.90	-0.07	-0.0021	0.0010	-0.0200	-0.4999	9.5237	-0.1113	0.0060	-0.0276	-0.0539	0.2479
4	-1.34	-0.02	-0.0097	0.0011	-0.0191	-0.1134	1.9724	-0.0851	0.0039	-0.0162	-0.0458	0.1899
5	-0.76	-0.02	-0.0190	0.0013	-0.0180	-0.0684	0.9490	-0.0673	0.0021	-0.0060	-0.0319	0.0895
6	-0.22	-0.02	-0.0005	0.0010	-0.0202	-1.9996	40.3332	-0.0503	0.0004	0.0012	-0.0000	-0.0246
7	0.32	-0.02	-0.0250	0.0013	-0.0174	-0.0540	0.6972	-0.0323	-0.0018	0.0112	0.0573	-0.3479
8	0.84	-0.02	-0.0113	0.0012	-0.0189	-0.1062	1.6695	-0.0150	-0.0029	0.0178	0.1933	-1.1868
9	1.36	-0.02	0.0056	0.0009	-0.0208	0.1607	-3.7204	0.0061	-0.0044	0.0268	-0.7212	4.3988
10	1.86	-0.02	0.0101	0.0008	-0.0212	0.0841	-2.1024	0.0273	-0.0058	0.0353	-0.2142	1.2929
11	2.33	-0.02	-0.0006	0.0010	-0.0200	-1.7497	33.3332	0.0463	-0.0074	0.0470	-0.1609	1.0157
12	2.84	-0.02	0.0117	0.0008	-0.0214	0.0684	-1.8292	0.0718	-0.0089	0.0550	-0.1239	0.7664
13	3.29	-0.03	0.0117	0.0008	-0.0214	0.0684	-1.8292	0.0869	-0.0097	0.0645	-0.1116	0.7429
14	3.78	-0.03	0.0147	0.0007	-0.0217	0.0510	-1.4763	0.1129	-0.0105	0.0764	-0.0934	0.6769
15	4.21	-0.03	0.0207	0.0007	-0.0224	0.0338	-1.0822	0.1308	-0.0110	0.0848	-0.0845	0.6482
16	4.68	-0.04	0.0147	0.0007	-0.0217	0.0510	-1.4763	0.1545	-0.0112	0.0937	-0.0725	0.6064
17	5.13	-0.04	0.0116	0.0008	-0.0213	0.0733	-1.8392	0.1763	-0.0107	0.1041	-0.0607	0.5907
18	5.60	-0.03	0.0192	0.0007	-0.0222	0.0365	-1.1564	0.2013	-0.0102	0.1133	-0.0509	0.5627
19	6.04	-0.05	0.0056	0.0008	-0.0206	0.1518	-3.6846	0.2221	-0.0098	0.1210	-0.0443	0.5448
20	6.48	-0.05	0.0116	0.0008	-0.0213	0.0733	-1.8392	0.2428	-0.0093	0.1298	-0.0383	0.5346
21	6.96	-0.06	0.0117	0.0008	-0.0214	0.0634	-1.8292	0.2665	-0.0094	0.1395	-0.0353	0.5235
22	7.39	-0.06	0.0101	0.0008	-0.0211	0.0641	-2.0925	0.2930	-0.0093	0.1472	-0.0317	0.5024
23	7.84	-0.05	0.0147	0.0007	-0.0216	0.0476	-1.4695	0.3147	-0.0092	0.1554	-0.0292	0.4936
24	8.27	-0.08	0.0116	0.0008	-0.0213	0.0690	-1.8392	0.3344	-0.0095	0.1643	-0.0284	0.4914
25	8.71	-0.08	0.0056	0.0008	-0.0206	0.1518	-3.6846	0.3609	-0.0098	0.1739	-0.0273	0.4817
26	9.10	-0.08	0.0116	0.0008	-0.0213	0.0733	-1.8392	0.3793	-0.0100	0.1797	-0.0264	0.4737
27	9.52	-0.08	0.0207	0.0006	-0.0223	0.0314	-1.0774	0.4035	-0.0100	0.1890	-0.0249	0.4682
28	9.94	-0.08	0.0252	0.0006	-0.0228	0.0238	-0.9049	0.4237	-0.0100	0.1953	-0.0237	0.4609
29	10.34	-0.02	0.0147	0.0007	-0.0216	0.0476	-1.4695	0.4463	-0.0101	0.2027	-0.0227	0.4542
30	10.76	-0.06	0.0117	0.0007	-0.0213	0.0598	-1.8206	0.4693	-0.0100	0.2101	-0.0213	0.4476
31	11.17	-0.06	0.0147	0.0007	-0.0216	0.0476	-1.4695	0.4923	-0.0099	0.2153	-0.0201	0.4374
32	11.53	-0.08	0.0283	0.0005	-0.0232	0.0177	-0.8187	0.5136	-0.0098	0.2237	-0.0192	0.4356
33	11.88	-0.06	0.0101	0.0008	-0.0210	0.0792	-2.0826	0.5276	-0.0089	0.2287	-0.0169	0.4335
34	12.26	-0.07	0.0233	0.0006	-0.0229	0.0237	-0.9039	0.5516	-0.0088	0.2359	-0.0159	0.4276
35	12.61	-0.05	0.0268	0.0005	-0.0230	0.0187	-0.8571	0.5675	-0.0088	0.2397	-0.0155	0.4224
36	12.97	-0.07	0.0434	0.0003	-0.0248	0.0069	-0.5723	0.5920	-0.0079	0.2469	-0.0133	0.4170
37	13.30	-0.07	0.0495	0.0002	-0.0255	0.0040	-0.5153	0.6112	-0.0083	0.2510	-0.0136	0.4108
38	13.66	-0.06	0.0450	0.0002	-0.0250	0.0044	-0.5557	0.6192	-0.0083	0.2551	-0.0135	0.4120
39	14.05	-0.05	0.0495	0.0002	-0.0255	0.0040	-0.5153	0.6450	-0.0083	0.2623	-0.0129	0.4067
40	14.39	-0.07	0.0663	-0.0000	-0.0274	-0.0008	-0.4134	0.6717	-0.0081	0.2673	-0.0121	0.3980
41	14.75	-0.06	0.0662	-0.0001	-0.0273	-0.0015	-0.4130	0.6840	-0.0084	0.2720	-0.0123	0.3977
42	15.10	-0.07	0.0602	0.0	-0.0267	0.0	-0.4442	0.7078	-0.0083	0.2778	-0.0117	0.3925
43	15.47	-0.08	0.0947	-0.0004	-0.0305	-0.0048	-0.3225	0.7264	-0.0082	0.2837	-0.0113	0.3906
44	15.78	-0.05	0.0657	-0.0003	-0.0295	-0.0041	-0.3447	0.7412	-0.0083	0.2879	-0.0112	0.3884
45	16.13	-0.08	0.0903	-0.0004	-0.0301	-0.0050	-0.3335	0.7670	-0.0073	0.2934	-0.0095	0.3825
46	16.44	-0.08	0.0812	-0.0003	-0.0290	-0.0043	-0.3577	0.7819	-0.0073	0.2973	-0.0093	0.3803

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	46	0.97	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.77	-0.08	0.1054	-0.0007	-0.0318	-0.0071	-0.3015	0.8018	-0.0065	0.3028	-0.0081	0.3777
48	17.10	-0.08	0.1172	-0.0009	-0.0330	-0.0077	-0.2820	0.8216	-0.0058	0.3083	-0.0071	0.3753
49	17.41	-0.08	0.1262	-0.0010	-0.0340	-0.0083	-0.2698	0.8457	-0.0053	0.3136	-0.0063	0.3708
50	17.76	-0.08	0.1490	-0.0013	-0.0366	-0.0091	-0.2460	0.8658	-0.0044	0.3196	-0.0051	0.3691
51	18.09	-0.08	0.1551	-0.0015	-0.0373	-0.0097	-0.2406	0.8806	-0.0044	0.3236	-0.0051	0.3675
52	18.42	-0.07	0.1566	-0.0015	-0.0374	-0.0099	-0.2389	0.9023	-0.0035	0.3292	-0.0039	0.3648
53	18.75	-0.09	0.1309	-0.0012	-0.0346	-0.0092	-0.2642	0.9234	-0.0029	0.3340	-0.0031	0.3617
54	19.09	-0.09	0.1610	-0.0016	-0.0379	-0.0102	-0.2357	0.9350	-0.0023	0.3376	-0.0025	0.3610
55	19.39	-0.08	0.1505	-0.0015	-0.0367	-0.0100	-0.2442	0.9554	-0.0013	0.3417	-0.0014	0.3576
56	19.74	-0.09	0.1628	-0.0017	-0.0381	-0.0104	-0.2344	0.9698	-0.0002	0.3434	-0.0003	0.3540
57	20.07	-0.09	0.1492	-0.0014	-0.0367	-0.0094	-0.2459	0.9788	0.0007	0.3462	0.0007	0.3536
58	20.43	-0.08	0.1612	-0.0016	-0.0380	-0.0102	-0.2356	0.9965	0.0010	0.3494	0.0010	0.3506
59	20.74	-0.09	0.1870	-0.0021	-0.0405	-0.0115	-0.2187	1.0127	0.0011	0.3540	0.0011	0.3496
60	21.06	-0.07	0.1810	-0.0020	-0.0405	-0.0113	-0.2226	1.0197	-0.0006	0.3564	-0.0006	0.3495
61	21.41	-0.08	0.1810	-0.0020	-0.0403	-0.0113	-0.2226	1.0347	-0.0008	0.3604	-0.0008	0.3483
62	21.72	-0.09	0.1961	-0.0023	-0.0415	-0.0117	-0.2140	1.0429	-0.0001	0.3613	-0.0001	0.3464
63	22.04	-0.10	0.1962	-0.0022	-0.0419	-0.0115	-0.2137	1.0601	0.0018	0.3651	0.0017	0.3444
64	22.36	-0.10	0.1963	-0.0023	-0.0420	-0.0117	-0.2139	1.0588	0.0010	0.3649	0.0010	0.3446
65	22.66	-0.09	0.1932	-0.0022	-0.0416	-0.0116	-0.2154	1.0747	0.0019	0.3691	0.0018	0.3434
66	22.98	-0.10	0.2084	-0.0024	-0.0434	-0.0118	-0.2081	1.0854	0.0023	0.3718	0.0022	0.3425
67	23.28	-0.10	0.2356	-0.0029	-0.0464	-0.0125	-0.1969	1.0929	0.0037	0.3745	0.0034	0.3426
68	23.61	-0.09	0.2323	-0.0029	-0.0460	-0.0127	-0.1980	1.1091	0.0044	0.3779	0.0040	0.3407
69	23.92	-0.09	0.2719	-0.0036	-0.0504	-0.0132	-0.1854	1.1147	0.0037	0.3794	0.0034	0.3404
70	24.27	-0.10	0.2839	-0.0038	-0.0518	-0.0134	-0.1823	1.1253	0.0060	0.3819	0.0053	0.3393
71	24.58	-0.10	0.3061	-0.0040	-0.0543	-0.0132	-0.1772	1.1318	0.0070	0.3833	0.0062	0.3387
72	24.90	-0.11	0.2863	-0.0038	-0.0521	-0.0133	-0.1818	1.1464	0.0058	0.3858	0.0051	0.3365
73	25.20	-0.11	0.2918	-0.0039	-0.0526	-0.0135	-0.1803	1.1480	0.0062	0.3864	0.0054	0.3366
74	25.49	-0.11	0.2921	-0.0041	-0.0526	-0.0140	-0.1801	1.1583	0.0031	0.3897	0.0027	0.3364
75	25.81	-0.10	0.3161	-0.0044	-0.0553	-0.0139	-0.1750	1.1650	0.0052	0.3905	0.0045	0.3352
76	26.12	-0.12	0.2773	-0.0037	-0.0511	-0.0135	-0.1841	1.1774	0.0046	0.3936	0.0039	0.3343
77	26.43	-0.10	0.3074	-0.0043	-0.0543	-0.0140	-0.1767	1.1815	0.0042	0.3953	0.0036	0.3346
78	26.72	-0.11	0.2926	-0.0040	-0.0526	-0.0138	-0.1803	1.1934	0.0061	0.3965	0.0052	0.3322
79	27.05	-0.11	0.3139	-0.0045	-0.0552	-0.0145	-0.1757	1.1979	0.0044	0.3967	0.0037	0.3311
80	27.33	-0.11	0.2927	-0.0040	-0.0528	-0.0137	-0.1804	1.2150	0.0066	0.3978	0.0055	0.3274
81	27.64	-0.11	0.2866	-0.0038	-0.0522	-0.0133	-0.1820	1.2104	0.0078	0.3985	0.0065	0.3292
82	27.97	-0.12	0.3075	-0.0041	-0.0545	-0.0135	-0.1772	1.2165	0.0086	0.3985	0.0071	0.3276
83	28.28	-0.12	0.3410	-0.0046	-0.0582	-0.0136	-0.1707	1.2269	0.0038	0.4019	0.0072	0.3270
84	28.58	-0.11	0.3078	-0.0040	-0.0545	-0.0132	-0.1770	1.2400	0.0106	0.4024	0.0086	0.3245
85	28.89	-0.10	0.2700	-0.0033	-0.0502	-0.0122	-0.1860	1.2518	0.0121	0.4025	0.0097	0.3216
86	29.20	-0.11	0.2625	-0.0032	-0.0494	-0.0122	-0.1883	1.2572	0.0126	0.4035	0.0100	0.3210
87	29.45	-0.15	0.2988	-0.0038	-0.0535	-0.0127	-0.1790	1.2662	0.0136	0.4038	0.0107	0.3189

TEST PART	MACH	RAIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	46	0.97	1.7	0.0	82M3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	-0.01	0.0580	-0.0026	-0.0037	-0.0457	-0.0633	-0.1712	0.0076	-0.0374	-0.0447	0.2187
2	-2.49	-0.02	0.0693	-0.0027	-0.0050	-0.0397	-0.0723	-0.1656	0.0072	-0.0343	-0.0438	0.2070
3	-1.90	-0.07	0.0692	-0.0029	-0.0049	-0.0426	-0.0714	-0.1249	0.0054	-0.0236	-0.0436	0.1891
4	-1.34	-0.02	0.0638	-0.0031	-0.0015	-0.0494	-0.0242	-0.0922	0.0036	-0.0138	-0.0396	0.1499
5	-0.76	-0.02	0.0726	-0.0030	-0.0047	-0.0420	-0.0649	-0.0734	0.0020	-0.0053	-0.0279	0.0716
6	-0.22	-0.02	0.0704	-0.0036	-0.0009	-0.0518	-0.0134	-0.0428	-0.0000	0.0034	0.0012	-0.0803
7	0.32	-0.02	0.0751	-0.0033	-0.0025	-0.0446	-0.0383	-0.0177	-0.0018	0.0102	0.1045	-0.5764
8	0.84	-0.02	0.0775	-0.0036	-0.0011	-0.0464	-0.0139	0.0059	-0.0035	0.0191	-0.6016	3.2315
9	1.36	-0.02	0.0726	-0.0036	0.0016	-0.0496	0.0219	0.0305	-0.0053	0.0295	-0.1737	0.9660
10	1.86	-0.02	0.0587	-0.0036	0.0020	-0.0524	0.0290	0.0550	-0.0069	0.0388	-0.1263	0.7059
11	2.33	-0.02	0.0724	-0.0036	0.0016	-0.0497	0.0224	0.0792	-0.0084	0.0485	-0.1060	0.6123
12	2.84	-0.02	0.0746	-0.0036	0.0042	-0.0482	0.0557	0.1139	-0.0098	0.0594	-0.0860	0.5220
13	3.29	-0.03	0.0709	-0.0033	0.0045	-0.0465	0.0638	0.1386	-0.0106	0.0680	-0.0768	0.4905
14	3.78	-0.03	0.0763	-0.0031	0.0011	-0.0406	0.0147	0.1679	-0.0113	0.0789	-0.0673	0.4702
15	4.21	-0.03	0.0813	-0.0032	0.0047	-0.0400	0.0577	0.1923	-0.0115	0.0891	-0.0601	0.4632
16	4.68	-0.04	0.0776	-0.0030	0.0052	-0.0393	0.0665	0.2165	-0.0114	0.0988	-0.0529	0.4565
17	5.13	-0.04	0.0859	-0.0029	0.0028	-0.0343	0.0329	0.2404	-0.0111	0.1077	-0.0462	0.4480
18	5.60	-0.03	0.0849	-0.0026	0.0050	-0.0306	0.0588	0.2709	-0.0108	0.1179	-0.0399	0.4355
19	6.04	-0.05	0.0889	-0.0029	0.0038	-0.0332	0.0430	0.2938	-0.0110	0.1267	-0.0374	0.4312
20	6.48	-0.05	0.0814	-0.0026	0.0047	-0.0325	0.0580	0.3122	-0.0106	0.1342	-0.0339	0.4299
21	6.96	-0.06	0.0835	-0.0022	0.0072	-0.0262	0.0853	0.3388	-0.0105	0.1455	-0.0310	0.4294
22	7.39	-0.06	0.0908	-0.0026	0.0071	-0.0286	0.0777	0.3655	-0.0105	0.1546	-0.0289	0.4229
23	7.84	-0.05	0.0831	-0.0025	0.0079	-0.0301	0.0949	0.3928	-0.0105	0.1633	-0.0268	0.4157
24	8.27	-0.08	0.0858	-0.0025	0.0097	-0.0291	0.1129	0.4145	-0.0104	0.1715	-0.0252	0.4138
25	8.71	-0.08	0.0933	-0.0024	0.0088	-0.0263	0.0942	0.4407	-0.0109	0.1804	-0.0248	0.4094
26	9.10	-0.08	0.0874	-0.0022	0.0067	-0.0252	0.0769	0.4610	-0.0109	0.1851	-0.0236	0.4015
27	9.52	-0.08	0.0942	-0.0026	0.0066	-0.0276	0.0699	0.4891	-0.0109	0.1955	-0.0224	0.3996
28	9.94	-0.08	0.0957	-0.0024	0.0106	-0.0256	0.1106	0.5099	-0.0106	0.2050	-0.0208	0.4020
29	10.34	-0.02	0.0981	-0.0021	0.0061	-0.0219	0.0621	0.5307	-0.0107	0.2103	-0.0202	0.3963
30	10.76	-0.06	0.0932	-0.0024	0.0088	-0.0263	0.0939	0.5593	-0.0108	0.2184	-0.0194	0.3904
31	11.17	-0.06	0.0893	-0.0018	0.0095	-0.0207	0.1104	0.5837	-0.0109	0.2250	-0.0188	0.3855
32	11.53	-0.08	0.1035	-0.0018	0.0097	-0.0179	0.0936	0.6057	-0.0106	0.2349	-0.0175	0.3879
33	11.88	-0.06	0.1000	-0.0021	0.0094	-0.0215	0.0942	0.6199	-0.0101	0.2388	-0.0164	0.3853
34	12.26	-0.07	0.1064	-0.0015	0.0115	-0.0141	0.1077	0.6536	-0.0097	0.2485	-0.0149	0.3802
35	12.61	-0.05	0.0985	-0.0018	0.0123	-0.0183	0.1251	0.6645	-0.0099	0.2523	-0.0149	0.3797
36	12.97	-0.07	0.1062	-0.0015	0.0114	-0.0141	0.1072	0.6947	-0.0095	0.2620	-0.0137	0.3771
37	13.30	-0.07	0.1032	-0.0015	0.0104	-0.0145	0.1007	0.7085	-0.0094	0.2663	-0.0133	0.3758
38	13.66	-0.06	0.1134	-0.0014	0.0113	-0.0123	0.0995	0.7274	-0.0093	0.2726	-0.0128	0.3747
39	14.05	-0.05	0.0964	-0.0019	0.0167	-0.0147	0.1735	0.7536	-0.0090	0.2813	-0.0120	0.3733
40	14.39	-0.07	0.0966	-0.0015	0.0167	-0.0155	0.1728	0.7730	-0.0087	0.2854	-0.0113	0.3692
41	14.75	-0.06	0.1023	-0.0017	0.0188	-0.0171	0.1837	0.7938	-0.0086	0.2948	-0.0109	0.3714
42	15.10	-0.07	0.0962	-0.0025	0.0168	-0.0260	0.1742	0.8092	-0.0084	0.3000	-0.0104	0.3708
43	15.47	-0.08	0.0963	-0.0018	0.0166	-0.0187	0.1723	0.8248	-0.0083	0.3050	-0.0101	0.3698
44	15.78	-0.05	0.1107	-0.0020	0.0158	-0.0181	0.1426	0.8508	-0.0080	0.3122	-0.0095	0.3669
45	16.13	-0.08	0.1136	-0.0014	0.0175	-0.0128	0.1536	0.8738	-0.0074	0.3184	-0.0085	0.3643
46	16.44	-0.08	0.1081	-0.0019	0.0208	-0.0180	0.1926	0.8861	-0.0073	0.3227	-0.0082	0.3641

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	46	0.97	1.7	0.0	82M3F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.77	-0.08	0.1173	-0.0014	0.0170	-0.0124	0.1448	0.9074	-0.0066	0.3288	-0.0073	0.3623
48	17.10	-0.08	0.1117	-0.0016	0.0203	-0.0148	0.1819	0.9279	-0.0066	0.3359	-0.0071	0.3620
49	17.41	-0.08	0.1170	-0.0014	0.0170	-0.0124	0.1452	0.9492	-0.0059	0.3415	-0.0063	0.3598
50	17.76	-0.08	0.1129	-0.0017	0.0182	-0.0155	0.1614	0.9656	-0.0050	0.3464	-0.0052	0.3587
51	18.09	-0.08	0.1174	-0.0008	0.0165	-0.0072	0.1441	0.9779	-0.0049	0.3500	-0.0050	0.3579
52	18.42	-0.07	0.1301	-0.0008	0.0196	-0.0061	0.1510	0.9932	-0.0043	0.3554	-0.0043	0.3579
53	18.75	-0.09	0.1235	-0.0003	0.0189	-0.0024	0.1535	1.0123	-0.0032	0.3602	-0.0032	0.3558
54	19.09	-0.09	0.1361	-0.0003	0.0216	-0.0026	0.1591	1.0265	-0.0021	0.3633	-0.0020	0.3540
55	19.39	-0.08	0.1346	-0.0004	0.0176	-0.0030	0.1311	1.0426	-0.0012	0.3686	-0.0012	0.3535
56	19.74	-0.09	0.1304	-0.0003	0.0156	-0.0023	0.1507	1.0533	-0.0011	0.3718	-0.0011	0.3530
57	20.07	-0.09	0.1322	-0.0002	0.0228	-0.0019	0.1729	1.0631	-0.0005	0.3753	-0.0005	0.3531
58	20.43	-0.08	0.1365	0.0000	0.0216	0.0004	0.1581	1.0799	-0.0002	0.3805	-0.0002	0.3524
59	20.74	-0.09	0.1290	0.0000	0.0225	0.0004	0.1743	1.0946	-0.0001	0.3849	-0.0001	0.3517
60	21.06	-0.07	0.1361	-0.0007	0.0217	-0.0055	0.1598	1.1075	0.0004	0.3883	0.0004	0.3506
61	21.41	-0.08	0.1290	0.0000	0.0225	0.0004	0.1743	1.1226	0.0013	0.3915	0.0012	0.3487
62	21.72	-0.09	0.1346	0.0000	0.0184	0.0004	0.1371	1.1320	0.0017	0.3942	0.0015	0.3482
63	22.04	-0.10	0.1307	0.0003	0.0195	0.0027	0.1496	1.1388	0.0012	0.3958	0.0011	0.3475
64	22.34	-0.10	0.1366	0.0000	0.0216	0.0004	0.1583	1.1485	0.0022	0.3986	0.0020	0.3471
65	22.66	-0.09	0.1351	0.0000	0.0177	0.0004	0.1311	1.1666	0.0038	0.4051	0.0033	0.3473
66	22.98	-0.10	0.1478	0.0007	0.0216	0.0047	0.1424	1.1761	0.0027	0.4064	0.0023	0.3455
67	23.28	-0.10	0.1442	0.0012	0.0214	0.0083	0.1487	1.1803	0.0027	0.4095	0.0023	0.3469
68	23.61	-0.09	0.1367	0.0006	0.0216	0.0048	0.1584	1.1958	0.0032	0.4117	0.0027	0.3443
69	23.92	-0.09	0.1481	0.0007	0.0203	0.0047	0.1374	1.2114	0.0037	0.4164	0.0031	0.3438
70	24.27	-0.10	0.1483	0.0011	0.0203	0.0074	0.1370	1.2145	0.0033	0.4172	0.0027	0.3435
71	24.58	-0.10	0.1497	0.0016	0.0243	0.0110	0.1622	1.2203	0.0031	0.4198	0.0025	0.3440
72	24.90	-0.11	0.1566	0.0012	0.0241	0.0080	0.1538	1.1970	0.0102	0.4121	0.0086	0.3443
73	25.20	-0.11	0.1536	0.0011	0.0223	0.0072	0.1451	1.2048	0.0110	0.4126	0.0091	0.3425
74	25.49	-0.11	0.1492	0.0012	0.0242	0.0080	0.1623	1.1829	0.0149	0.4042	0.0126	0.3417
75	25.81	-0.10	0.1474	0.0012	0.0205	0.0081	0.1419	1.1894	0.0143	0.4087	0.0120	0.3436
76	26.12	-0.12	0.1570	0.0016	0.0234	0.0105	0.1491	1.1936	0.0146	0.4066	0.0123	0.3407
77	26.43	-0.10	0.1565	0.0012	0.0241	0.0080	0.1543	1.1992	0.0148	0.4098	0.0124	0.3417
78	26.72	-0.11	0.1579	0.0016	0.0215	0.0104	0.1388	1.2024	0.0154	0.4078	0.0128	0.3392
79	27.05	-0.11	0.1537	0.0012	0.0230	0.0081	0.1497	1.1988	0.0173	0.4052	0.0145	0.3380
80	27.33	-0.11	0.1578	0.0012	0.0220	0.0079	0.1393	1.2075	0.0166	0.4090	0.0137	0.3388
81	27.69	-0.11	0.1606	0.0016	0.0237	0.0103	0.1477	1.2185	0.0168	0.4111	0.0138	0.3374
82	27.97	-0.12	0.1631	0.0016	0.0254	0.0101	0.1560	1.2067	0.0176	0.4103	0.0146	0.3395
83	28.28	-0.12	0.1544	0.0017	0.0223	0.0113	0.1447	1.2175	0.0179	0.4117	0.0147	0.3381
84	28.58	-0.11	0.1483	0.0016	0.0272	0.0111	0.1835	1.2229	0.0176	0.4134	0.0144	0.3380
85	28.89	-0.10	0.1808	0.0023	0.0262	0.0127	0.1452	1.2278	0.0176	0.4119	0.0143	0.3355
86	29.20	-0.11	0.1769	0.0018	0.0266	0.0102	0.1506	1.2274	0.0186	0.4124	0.0152	0.3360
87	29.45	-0.15	0.1781	0.0018	0.0244	0.0101	0.1373	1.2214	0.0172	0.4045	0.0141	0.3312

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	47	1.01	1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.76	-0.02	-0.5352	0.5803	0.0401	-0.0611	0.0100	0.2882	-1.0843		
2	-2.49	-0.03	-0.4779	0.5031	-0.0097	-0.0934	0.0060	0.2946	-1.0527		
3	-1.89	-0.04	-0.3629	0.3760	0.0537	-0.0922	0.0100	0.2901	-1.0363		
4	-1.33	-0.07	-0.2571	0.2639	-0.0793	-0.1520	0.0080	0.2969	-1.0266		
5	-0.75	-0.02	-0.1581	0.1443	0.0423	-0.0532	0.0090	0.3054	-0.9130		
6	-0.22	-0.01	-0.0695	0.0813	0.0924	-0.0134	0.0040	0.3130	-1.1698		
7	0.32	-0.02	0.0174	0.0406	0.0542	-0.0935	0.0050	0.3187	2.3356		
8	0.84	0.0	0.1108	-0.0481	0.1140	0.0084	0.0020	0.3067	-0.4343		
9	1.37	-0.02	0.1960	-0.1044	0.0344	-0.0452	0.0090	0.2997	-0.5327		
10	1.87	-0.01	0.2803	-0.2014	0.0644	-0.0302	0.0050	0.3048	-0.7186		
11	2.35	-0.02	0.4012	-0.3418	0.0729	-0.1130	0.0010	0.3006	-0.8518		
12	2.85	-0.04	0.4969	-0.4437	0.0350	-0.0550	0.0050	0.3052	-0.8930		
13	3.31	-0.02	0.5791	-0.5608	0.1289	-0.0884	0.0090	0.3061	-0.9684		
14	3.78	-0.03	0.6713	-0.6999	0.0645	-0.0693	0.0070	0.3095	-1.0425		
15	4.22	-0.05	0.8007	-0.8680	0.0168	-0.1235	0.0060	0.3078	-1.0841		
16	4.70	-0.05	0.9064	-1.0240	-0.0163	-0.0552	0.0080	0.3138	-1.1352		
17	5.14	-0.04	0.9879	-1.1500	0.0184	-0.0038	0.0050	0.3133	-1.1642		
18	5.62	-0.04	1.1117	-1.3303	0.0315	0.0689	0.0100	0.3193	-1.1967		
19	6.05	-0.04	1.2149	-1.4679	0.0928	-0.0789	0.0100	0.3181	-1.2082		
20	6.53	-0.05	1.3581	-1.6744	0.0499	-0.0469	0.0110	0.3118	-1.2329		
21	6.98	-0.06	1.4394	-1.8202	0.0036	-0.0590	0.0100	0.3151	-1.2645		
22	7.44	-0.06	1.5654	-1.9896	0.0235	-0.0189	0.0120	0.3150	-1.2710		
23	7.86	-0.07	1.6816	-2.1442	0.0153	0.0096	0.0100	0.3148	-1.2751		
24	8.29	-0.04	1.7493	-2.2850	0.0763	-0.0248	0.0080	0.3124	-1.3063		
25	8.73	-0.08	1.8737	-2.4831	-0.0048	-0.0503	0.0140	0.3154	-1.3253		
26	9.12	-0.02	1.9695	-2.6164	0.0351	0.0005	0.0120	0.3172	-1.3284		
27	9.53	-0.06	2.0681	-2.7684	-0.0561	-0.0205	0.0120	0.3145	-1.3386		
28	9.95	-0.07	2.2005	-2.9767	-0.0098	0.0077	0.0120	0.3072	-1.3537		
29	10.36	-0.08	2.3310	-3.2004	-0.0416	-0.0318	0.0130	0.2911	-1.3730		
30	10.77	-0.02	2.4215	-3.3461	0.0588	-0.0853	0.0150	0.2707	-1.3818		
31	11.18	-0.05	2.5562	-3.5666	0.0437	-0.0162	0.0160	0.2612	-1.3953		
32	11.54	-0.08	2.6507	-3.6779	0.1096	-0.0164	0.0140	0.2377	-1.3876		
33	11.91	-0.06	2.7498	-3.8498	0.0575	-0.0285	0.0130	0.2106	-1.4000		
34	12.26	-0.06	2.8585	-4.0959	0.0149	-0.0249	0.0190	0.2188	-1.4343		
35	12.63	-0.05	2.9744	-4.2462	0.0406	0.0292	0.0100	0.2227	-1.4276		
36	12.98	-0.05	3.1049	-4.3918	0.0798	0.0383	0.0120	0.2267	-1.4145		
37	13.36	-0.07	3.2309	-4.5192	-0.0236	0.0420	0.0170	0.2433	-1.3988		
38	13.70	-0.07	3.3368	-4.7155	-0.0068	-0.0145	0.0220	0.2553	-1.4132		
39	14.05	-0.07	3.4550	-4.7791	-0.0402	-0.0137	0.0170	0.2639	-1.3832		
40	14.42	-0.07	3.5629	-4.9301	-0.0789	-0.0125	0.0180	0.2667	-1.3837		
41	14.79	-0.08	3.6518	-4.9756	-0.0784	-0.0012	0.0220	0.2632	-1.3625		
42	15.14	-0.08	3.7510	-5.1534	-0.0362	-0.0033	0.0160	0.2596	-1.3739		
43	15.49	-0.07	3.8341	-5.3047	-0.0144	0.1101	0.0160	0.2578	-1.3836		
44	15.81	-0.08	3.9407	-5.4260	-0.0711	0.0235	0.0100	0.2519	-1.3769		
45	16.15	-0.08	4.0556	-5.5948	-0.1079	0.1760	0.0120	0.2432	-1.3795		
46	16.47	-0.09	4.1609	-5.7712	-0.1466	0.1142	0.0120	0.2305	-1.3870		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	47	1.01	1.7	0.0	B2WJF12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.82	-0.08	4.2617	-5.9424	-0.1464	0.1889	0.0130	0.2260	-1.3944		
48	17.14	-0.08	4.3859	-6.1423	-0.0565	0.1951	0.0150	0.2162	-1.4005		
49	17.46	-0.08	4.4755	-6.2877	-0.0663	0.1248	0.0070	0.2094	-1.4049		
50	17.79	-0.07	4.6124	-6.4274	-0.0172	0.0851	-0.0020	0.2004	-1.3935		
51	18.12	-0.09	4.7128	-6.5849	-0.1607	0.1780	0.0050	0.1914	-1.3972		
52	18.45	-0.08	4.7897	-6.7345	-0.1049	0.1408	-0.0060	0.1861	-1.4061		
53	18.79	-0.07	4.9362	-6.8316	-0.0979	0.2850	-0.0090	0.1979	-1.3840		
54	19.14	-0.08	5.0131	-6.9244	-0.1331	0.2223	-0.0080	0.1931	-1.3813		
55	19.45	-0.08	5.1480	-6.9873	-0.0667	0.1724	-0.0120	0.2072	-1.3573		
56	19.78	-0.08	5.2168	-7.0086	-0.0933	0.2306	-0.0130	0.2045	-1.3435		
57	20.12	-0.08	5.3345	-7.1233	-0.0775	0.2115	-0.0250	0.2064	-1.3353		
58	20.48	-0.08	5.4372	-7.1641	-0.0820	0.2108	-0.0160	0.2024	-1.3176		
59	20.81	-0.08	5.5071	-7.1950	-0.0050	0.2640	-0.0130	0.1913	-1.3065		
60	21.16	-0.09	5.6223	-7.3372	-0.0646	0.2374	-0.0290	0.1887	-1.3050		
61	21.47	-0.08	5.6775	-7.4005	-0.0196	0.1614	-0.0270	0.1818	-1.3049		
62	21.80	-0.10	5.7989	-7.5136	-0.1175	0.1535	-0.0220	0.1697	-1.2957		
63	22.11	-0.08	5.8975	-7.5866	-0.0209	0.0802	-0.0170	0.1529	-1.2864		
64	22.42	-0.09	5.9847	-7.6407	-0.0473	0.1742	-0.0210	0.1405	-1.2767		
65	22.73	-0.09	6.1254	-7.7697	-0.0187	0.1752	-0.0250	0.1384	-1.2684		
66	23.05	-0.09	6.2376	-7.8347	-0.0386	0.1360	-0.0170	0.1246	-1.2561		
67	23.39	-0.09	6.3920	-7.8189	-0.0464	0.1799	-0.0190	0.1144	-1.2232		
68	23.69	-0.10	6.4900	-7.8991	-0.0581	0.1603	-0.0130	0.1095	-1.2171		
69	24.01	-0.09	6.6034	-7.8630	-0.0590	0.2086	-0.0230	0.1146	-1.1907		
70	24.36	-0.08	6.7151	-7.8404	-0.0322	0.1759	-0.0250	0.1175	-1.1676		
71	24.68	-0.09	6.8101	-7.8824	-0.0514	0.2199	-0.0240	0.1243	-1.1575		
72	25.01	-0.09	6.9668	-7.8128	-0.1086	0.3220	-0.0270	0.1277	-1.1214		
73	25.31	-0.09	7.0096	-7.8527	-0.0250	0.1750	-0.0310	0.1273	-1.1203		
74	25.61	-0.11	7.1577	-7.7760	-0.1702	0.3792	-0.0290	0.1346	-1.0867		
75	25.92	-0.11	7.2369	-7.7889	-0.1364	0.4629	-0.0280	0.1285	-1.0763		
76	26.23	-0.10	7.3616	-7.8216	-0.0562	0.3256	-0.0290	0.1274	-1.0625		
77	26.54	-0.10	7.4875	-7.7589	-0.2327	0.7507	-0.0310	0.1214	-1.0362		
78	26.84	-0.11	7.5963	-7.8102	-0.1724	0.4563	-0.0510	0.1062	-1.0282		
79	27.15	-0.11	7.7025	-7.8174	-0.2498	0.7516	-0.0440	0.1011	-1.0149		
80	27.47	-0.10	7.8359	-7.8566	-0.0919	0.4126	-0.0480	0.0905	-1.0026		
81	27.76	-0.11	7.9232	-7.9538	-0.2592	0.7068	-0.0480	0.0812	-1.0039		
82	28.06	-0.10	8.0312	-7.9510	-0.2376	0.7435	-0.0310	0.0728	-0.9900		
83	28.36	-0.10	8.1107	-7.9865	-0.0761	0.3385	-0.0500	0.0687	-0.9839		
84	28.65	-0.09	8.2578	-8.0354	-0.1586	0.7319	-0.0480	0.0652	-0.9731		
85	28.97	-0.12	8.3440	-8.0451	-0.2162	0.4986	-0.0550	0.0484	-0.9642		
86	29.31	-0.12	8.5266	-8.0557	-0.3131	0.7392	-0.0620	0.0537	-0.9448		
87	29.63	-0.11	8.6395	-8.0378	-0.0120	0.1088	-0.0560	0.0346	-0.9304		
88	29.94	-0.11	8.6689	-7.9920	-0.0725	0.2450	-0.0620	0.0374	-0.9219		

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	57	1.01	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-2.76	-0.02	-0.0063	0.0009	-0.0186	-0.1508	2.9523	-0.1473	0.0101	-0.0476	-0.0689	0.3230
2	-2.49	-0.03	-0.0151	0.0011	-0.0176	-0.0728	1.1677	-0.1314	0.0088	-0.0392	-0.0673	0.2982
3	-1.89	-0.04	-0.0093	0.0010	-0.0183	-0.1124	1.9676	-0.1103	0.0070	-0.0287	-0.0639	0.2607
4	-1.33	-0.07	0.0040	0.0008	-0.0198	0.2000	-4.9418	-0.0870	0.0048	-0.0161	-0.0557	0.1849
5	-0.75	-0.02	-0.0150	0.0010	-0.0177	-0.0700	1.1799	-0.0620	0.0024	-0.0068	-0.0387	0.0768
6	-0.22	-0.01	-0.0004	0.0008	-0.0192	-2.1246	48.0032	-0.0442	0.0006	0.0018	-0.0147	-0.0401
7	0.32	-0.02	0.0113	0.0007	-0.0205	0.0619	-1.8172	-0.0334	-0.0010	0.0095	0.0314	-0.2836
8	0.84	0.0	0.0098	0.0007	-0.0203	0.0765	-2.0749	-0.0118	-0.0029	0.0181	0.2457	-1.5312
9	1.37	-0.02	0.0185	0.0006	-0.0213	0.0351	-1.1533	0.0020	-0.0041	0.0246	-2.0496	12.2832
10	1.87	-0.01	0.0054	0.0007	-0.0197	0.1389	-3.6483	0.0203	-0.0061	0.0352	-0.3004	1.7322
11	2.35	-0.02	0.0054	0.0008	-0.0198	0.1481	-3.6668	0.0503	-0.0085	0.0485	-0.1690	0.9634
12	2.85	-0.04	0.0053	0.0008	-0.0197	0.1603	-3.7234	0.0665	-0.0096	0.0559	-0.1443	0.8415
13	3.31	-0.02	0.0053	0.0008	-0.0197	0.1603	-3.7234	0.0880	-0.0107	0.0633	-0.1216	0.7196
14	3.78	-0.03	0.0184	0.0006	-0.0212	0.0353	-1.1505	0.1078	-0.0115	0.0724	-0.1071	0.6718
15	4.22	-0.05	0.0097	0.0007	-0.0203	0.0773	-2.0895	0.1318	-0.0121	0.0823	-0.0922	0.6246
16	4.70	-0.05	0.0184	0.0006	-0.0213	0.0353	-1.1559	0.1569	-0.0122	0.0916	-0.0781	0.5837
17	5.14	-0.04	0.0112	0.0007	-0.0205	0.0670	-1.8275	0.1760	-0.0124	0.0975	-0.0707	0.5542
18	5.62	-0.04	0.0111	0.0007	-0.0204	0.0676	-1.8380	0.2032	-0.0119	0.1100	-0.0588	0.5414
19	6.05	-0.04	0.0141	0.0007	-0.0207	0.0496	-1.4682	0.2204	-0.0117	0.1179	-0.0533	0.5351
20	6.53	-0.05	0.0112	0.0007	-0.0204	0.0625	-1.8186	0.2392	-0.0114	0.1250	-0.0477	0.5226
21	6.98	-0.06	0.0112	0.0007	-0.0204	0.0625	-1.8186	0.2608	-0.0118	0.1337	-0.0452	0.5127
22	7.44	-0.06	0.0054	0.0007	-0.0198	0.1389	-3.6668	0.2900	-0.0115	0.1434	-0.0398	0.4945
23	7.86	-0.07	0.0184	0.0006	-0.0212	0.0353	-1.1505	0.3062	-0.0118	0.1505	-0.0387	0.4916
24	8.29	-0.04	0.0054	0.0008	-0.0198	0.1481	-3.6668	0.3288	-0.0119	0.1598	-0.0362	0.4858
25	8.73	-0.08	0.0186	0.0005	-0.0213	0.0296	-1.1453	0.3548	-0.0123	0.1664	-0.0347	0.4690
26	9.12	-0.02	0.0098	0.0007	-0.0203	0.0765	-2.0749	0.3770	-0.0128	0.1737	-0.0339	0.4608
27	9.53	-0.06	0.0055	0.0007	-0.0199	0.1363	-3.6122	0.3972	-0.0128	0.1827	-0.0323	0.4598
28	9.95	-0.07	0.0202	0.0005	-0.0216	0.0247	-1.0678	0.4155	-0.0129	0.1890	-0.0312	0.4550
29	10.36	-0.08	0.0114	0.0007	-0.0207	0.0614	-1.8159	0.4387	-0.0132	0.1959	-0.0301	0.4465
30	10.77	-0.02	-0.0108	0.0010	-0.0183	-0.0972	1.6943	0.4617	-0.0129	0.2045	-0.0280	0.4430
31	11.18	-0.05	-0.0049	0.0009	-0.0185	-0.1538	3.8638	0.4808	-0.0126	0.2111	-0.0262	0.4391
32	11.54	-0.08	-0.0034	0.0009	-0.0192	-0.2744	5.6567	0.5027	-0.0119	0.2167	-0.0238	0.4311
33	11.91	-0.06	0.0249	0.0005	-0.0224	0.0201	-0.8997	0.5179	-0.0109	0.2229	-0.0210	0.4303
34	12.26	-0.06	0.0265	0.0005	-0.0227	0.0189	-0.8555	0.5428	-0.0107	0.2304	-0.0198	0.4244
35	12.63	-0.05	0.0295	0.0004	-0.0231	0.0153	-0.7420	0.5644	-0.0107	0.2366	-0.0190	0.4191
36	12.98	-0.05	0.0294	0.0005	-0.0230	0.0170	-0.7324	0.5804	-0.0108	0.2412	-0.0186	0.4156
37	13.36	-0.07	0.0295	0.0004	-0.0231	0.0153	-0.7620	0.6048	-0.0113	0.2459	-0.0187	0.4066
38	13.70	-0.07	0.0444	0.0002	-0.0247	0.0045	-0.5564	0.6231	-0.0118	0.2509	-0.0190	0.4027
39	14.05	-0.07	0.0339	0.0004	-0.0235	0.0118	-0.6933	0.6345	-0.0124	0.2550	-0.0195	0.4019
40	14.42	-0.07	0.0338	0.0004	-0.0234	0.0133	-0.6934	0.6516	-0.0129	0.2594	-0.0199	0.3989
41	14.79	-0.08	0.0648	-0.0000	-0.0268	-0.0008	-0.4137	0.6609	-0.0129	0.2613	-0.0196	0.3954
42	15.14	-0.08	0.0543	0.0001	-0.0256	0.0028	-0.4716	0.6832	-0.0130	0.2676	-0.0190	0.3918
43	15.49	-0.07	0.0883	-0.0004	-0.0294	-0.0051	-0.3327	0.6997	-0.0129	0.2701	-0.0184	0.3861
44	15.81	-0.08	0.0926	-0.0004	-0.0298	-0.0049	-0.3223	0.7113	-0.0130	0.2749	-0.0183	0.3865
45	16.15	-0.08	0.1088	-0.0008	-0.0316	-0.0074	-0.2909	0.7313	-0.0124	0.2808	-0.0170	0.3839
46	16.47	-0.09	0.1221	-0.0009	-0.0331	-0.0074	-0.2712	0.7565	-0.0121	0.2851	-0.0160	0.3768

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6												47	1.01	1.7	0.0	B2WJF12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2										
47	16.82	-0.08	0.1088	-0.0008	-0.0316	-0.0074	-0.2909	0.7725	-0.0114	0.2895	-0.0148	0.3748										
48	17.14	-0.08	0.1090	-0.0007	-0.0317	-0.0069	-0.2906	0.7998	-0.0108	0.2966	-0.0136	0.3708										
49	17.46	-0.08	0.1122	-0.0008	-0.0321	-0.0071	-0.2862	0.8153	-0.0099	0.3027	-0.0121	0.3714										
50	17.79	-0.07	0.1245	-0.0010	-0.0336	-0.0080	-0.2700	0.8433	-0.0091	0.3085	-0.0108	0.3658										
51	18.12	-0.09	0.1245	-0.0010	-0.0336	-0.0080	-0.2700	0.8576	-0.0089	0.3141	-0.0104	0.3662										
52	18.45	-0.08	0.1438	-0.0013	-0.0358	-0.0090	-0.2488	0.8752	-0.0082	0.3184	-0.0094	0.3638										
53	18.79	-0.07	0.1544	-0.0015	-0.0369	-0.0100	-0.2393	0.8964	-0.0080	0.3230	-0.0090	0.3603										
54	19.14	-0.08	0.1393	-0.0012	-0.0353	-0.0086	-0.2553	0.9113	-0.0080	0.3264	-0.0088	0.3581										
55	19.45	-0.08	0.1688	-0.0017	-0.0385	-0.0101	-0.2284	0.9278	-0.0087	0.3294	-0.0094	0.3550										
56	19.78	-0.06	0.1892	-0.0020	-0.0407	-0.0106	-0.2154	0.9401	-0.0084	0.3310	-0.0090	0.3520										
57	20.12	-0.08	0.1974	-0.0022	-0.0416	-0.0111	-0.2109	0.9520	-0.0085	0.3348	-0.0089	0.3517										
58	20.48	-0.08	0.1821	-0.0019	-0.0399	-0.0104	-0.2192	0.9624	-0.0086	0.3385	-0.0089	0.3517										
59	20.81	-0.08	0.1758	-0.0019	-0.0391	-0.0108	-0.2225	0.9655	-0.0093	0.3383	-0.0097	0.3504										
60	21.16	-0.09	0.2109	-0.0024	-0.0436	-0.0116	-0.2040	0.9860	-0.0080	0.3422	-0.0082	0.3470										
61	21.47	-0.08	0.2004	-0.0022	-0.0418	-0.0110	-0.2087	0.9929	-0.0079	0.3460	-0.0080	0.3484										
62	21.80	-0.10	0.2032	-0.0022	-0.0422	-0.0111	-0.2076	1.0044	-0.0083	0.3476	-0.0083	0.3461										
63	22.11	-0.08	0.1711	-0.0017	-0.0385	-0.0102	-0.2249	1.0101	-0.0084	0.3510	-0.0083	0.3475										
64	22.42	-0.09	0.1711	-0.0017	-0.0386	-0.0099	-0.2255	1.0183	-0.0087	0.3528	-0.0086	0.3465										
65	22.73	-0.09	0.1968	-0.0022	-0.0415	-0.0112	-0.2110	1.0390	-0.0082	0.3579	-0.0079	0.3445										
66	23.05	-0.09	0.1572	-0.0015	-0.0370	-0.0095	-0.2355	1.0466	-0.0086	0.3613	-0.0082	0.3453										
67	23.39	-0.09	0.1589	-0.0015	-0.0372	-0.0098	-0.2344	1.0546	-0.0093	0.3628	-0.0088	0.3440										
68	23.69	-0.10	0.1533	-0.0015	-0.0361	-0.0101	-0.2345	1.0666	-0.0094	0.3675	-0.0088	0.3446										
69	24.01	-0.09	0.1975	-0.0022	-0.0417	-0.0111	-0.2111	1.0745	-0.0096	0.3690	-0.0090	0.3447										
70	24.36	-0.08	0.1679	-0.0017	-0.0382	-0.0104	-0.2278	1.0740	-0.0106	0.3696	-0.0099	0.3441										
71	24.68	-0.09	0.1917	-0.0021	-0.0410	-0.0112	-0.2140	1.0738	-0.0116	0.3683	-0.0108	0.3430										
72	25.01	-0.09	0.2174	-0.0026	-0.0434	-0.0122	-0.2017	1.0707	-0.0126	0.3668	-0.0118	0.3426										
73	25.31	-0.09	0.2112	-0.0025	-0.0430	-0.0118	-0.2037	1.0831	-0.0127	0.3683	-0.0117	0.3400										
74	25.61	-0.11	0.2237	-0.0028	-0.0445	-0.0125	-0.1987	1.0741	-0.0155	0.3660	-0.0144	0.3408										
75	25.92	-0.11	0.2146	-0.0026	-0.0434	-0.0121	-0.2022	1.0804	-0.0149	0.3694	-0.0138	0.3419										
76	26.23	-0.10	0.1939	-0.0022	-0.0410	-0.0113	-0.2114	1.0982	-0.0151	0.3719	-0.0138	0.3387										
77	26.54	-0.10	0.2392	-0.0031	-0.0461	-0.0130	-0.1927	1.0950	-0.0151	0.3721	-0.0138	0.3398										
78	26.84	-0.11	0.2581	-0.0033	-0.0482	-0.0130	-0.1867	1.1110	-0.0144	0.3747	-0.0150	0.3373										
79	27.15	-0.11	0.2452	-0.0033	-0.0468	-0.0135	-0.1908	1.1095	-0.0153	0.3759	-0.0138	0.3388										
80	27.47	-0.10	0.3034	-0.0041	-0.0534	-0.0135	-0.1758	1.1231	-0.0140	0.3779	-0.0125	0.3365										
81	27.76	-0.11	0.2977	-0.0041	-0.0527	-0.0138	-0.1769	1.1324	-0.0134	0.3798	-0.0118	0.3354										
82	28.06	-0.10	0.2964	-0.0040	-0.0525	-0.0135	-0.1771	1.1456	-0.0133	0.3825	-0.0116	0.3339										
83	28.36	-0.10	0.3037	-0.0039	-0.0535	-0.0130	-0.1760	1.1590	-0.0123	0.3862	-0.0107	0.3332										
84	28.65	-0.09	0.3113	-0.0043	-0.0542	-0.0138	-0.1742	1.1619	-0.0124	0.3870	-0.0111	0.3330										
85	28.97	-0.12	0.2861	-0.0036	-0.0514	-0.0128	-0.1797	1.1942	-0.0084	0.3937	-0.0070	0.3297										
86	29.31	-0.12	0.3023	-0.0040	-0.0532	-0.0132	-0.1760	1.1984	-0.0085	0.3936	-0.0071	0.3285										
87	29.63	-0.11	0.2743	-0.0033	-0.0502	-0.0122	-0.1828	1.2140	-0.0057	0.3965	-0.0047	0.3266										
88	29.94	-0.11	0.3119	-0.0040	-0.0543	-0.0128	-0.1742	1.2168	-0.0061	0.3956	-0.0050	0.3251										

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	47	1.01	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XLPF3	YLPF3	CNF4	CH4	C84	XLPF4	YCPF4
1	-2.76	-0.02	0.0628	-0.0021	-0.0044	-0.0334	-0.0697	-0.1677	0.0033	-0.0372	-0.0498	0.2217
2	-2.49	-0.03	0.0629	-0.0021	-0.0043	-0.0334	-0.0690	-0.1545	0.0078	-0.0335	-0.0505	0.2167
3	-1.89	-0.04	0.0629	-0.0022	-0.0044	-0.0350	-0.0706	-0.1193	0.0060	-0.0238	-0.0507	0.1999
4	-1.33	-0.07	0.0656	-0.0022	-0.0036	-0.0396	-0.0643	-0.0893	0.0042	-0.0142	-0.0470	0.1585
5	-0.75	-0.02	0.0656	-0.0025	-0.0033	-0.0381	-0.0509	-0.0518	0.0018	-0.0041	-0.0347	0.0784
6	-0.22	-0.01	0.0612	-0.0026	-0.0015	-0.0425	-0.0246	-0.0304	0.0	0.0026	0.0	-0.0845
7	0.32	-0.02	0.0609	-0.0029	-0.0015	-0.0476	-0.0247	-0.0101	-0.0020	0.0112	0.2029	-1.1123
8	0.84	0.0	0.0717	-0.0029	-0.0027	-0.0404	-0.0378	0.0167	-0.0037	0.0178	-0.2245	1.0638
9	1.37	-0.02	0.0609	-0.0026	-0.0015	-0.0427	-0.0247	0.0405	-0.0056	0.0282	-0.1395	0.6962
10	1.87	-0.01	0.0631	-0.0029	0.0002	-0.0467	0.0036	0.0652	-0.0071	0.0350	-0.1089	0.5372
11	2.35	-0.02	0.0688	-0.0031	0.0022	-0.0458	0.0323	0.0938	-0.0089	0.0462	-0.0949	0.4931
12	2.85	-0.04	0.0677	-0.0030	0.0044	-0.0450	0.0644	0.1205	-0.0101	0.0556	-0.0842	0.4618
13	3.31	-0.02	0.0727	-0.0029	0.0010	-0.0406	0.0141	0.1426	-0.0111	0.0641	-0.0778	0.4496
14	3.78	-0.03	0.0675	-0.0031	0.0043	-0.0459	0.0636	0.1670	-0.0119	0.0745	-0.0715	0.4464
15	4.22	-0.05	0.0713	-0.0030	0.0039	-0.0421	0.0541	0.1927	-0.0124	0.0839	-0.0646	0.4354
16	4.70	-0.05	0.0809	-0.0031	0.0048	-0.0383	0.0588	0.2232	-0.0124	0.0953	-0.0555	0.4269
17	5.14	-0.04	0.0810	-0.0028	0.0048	-0.0346	0.0591	0.2361	-0.0119	0.1002	-0.0506	0.4243
18	5.62	-0.04	0.0813	-0.0030	0.0041	-0.0369	0.0503	0.2706	-0.0120	0.1124	-0.0445	0.4156
19	6.05	-0.04	0.0690	-0.0031	0.0082	-0.0449	0.1187	0.2545	-0.0119	0.1218	-0.0404	0.4137
20	6.53	-0.05	0.0835	-0.0029	0.0064	-0.0347	0.0769	0.3160	-0.0117	0.1313	-0.0372	0.4155
21	6.98	-0.06	0.0800	-0.0028	0.0064	-0.0350	0.0857	0.3390	-0.0121	0.1385	-0.0358	0.4084
22	7.44	-0.06	0.0801	-0.0025	0.0069	-0.0312	0.0860	0.3656	-0.0119	0.1486	-0.0325	0.4065
23	7.86	-0.07	0.0812	-0.0025	0.0046	-0.0308	0.0586	0.3832	-0.0122	0.1547	-0.0320	0.4037
24	8.29	-0.04	0.0894	-0.0024	0.0085	-0.0274	0.0350	0.4059	-0.0122	0.1655	-0.0302	0.4076
25	8.73	-0.08	0.0899	-0.0020	0.0085	-0.0222	0.0341	0.4361	-0.0126	0.1749	-0.0289	0.4011
26	9.12	-0.02	0.0906	-0.0025	0.0071	-0.0276	0.0782	0.4523	-0.0132	0.1793	-0.0292	0.3964
27	9.53	-0.06	0.0643	-0.0020	0.0065	-0.0237	0.0770	0.4745	-0.0131	0.1859	-0.0276	0.3918
28	9.95	-0.07	0.0904	-0.0020	0.0085	-0.0221	0.0743	0.5034	-0.0131	0.1950	-0.0260	0.3874
29	10.36	-0.08	0.0906	-0.0020	0.0085	-0.0221	0.0737	0.5227	-0.0130	0.2026	-0.0250	0.3875
30	10.77	-0.02	0.1021	-0.0019	0.0073	-0.0186	0.0717	0.5435	-0.0126	0.2095	-0.0232	0.3855
31	11.18	-0.05	0.0915	-0.0015	0.0086	-0.0164	0.0939	0.5719	-0.0126	0.2189	-0.0221	0.3827
32	11.54	-0.08	0.1056	-0.0014	0.0083	-0.0133	0.0705	0.5857	-0.0114	0.2235	-0.0195	0.3815
33	11.91	-0.06	0.1046	-0.0015	0.0113	-0.0143	0.1076	0.6060	-0.0110	0.2340	-0.0182	0.3862
34	12.26	-0.06	0.1032	-0.0019	0.0074	-0.0184	0.0716	0.6343	-0.0115	0.2418	-0.0181	0.3813
35	12.63	-0.05	0.1048	-0.0018	0.0113	-0.0172	0.1080	0.6513	-0.0108	0.2463	-0.0166	0.3782
36	12.98	-0.05	0.1012	-0.0017	0.0117	-0.0168	0.1158	0.6723	-0.0107	0.2539	-0.0160	0.3777
37	13.36	-0.07	0.0975	-0.0016	0.0121	-0.0164	0.1240	0.6962	-0.0109	0.2612	-0.0157	0.3752
38	13.70	-0.07	0.1048	-0.0015	0.0113	-0.0143	0.1080	0.7219	-0.0115	0.2667	-0.0160	0.3695
39	14.05	-0.07	0.1050	-0.0008	0.0112	-0.0081	0.1065	0.7333	-0.0113	0.2712	-0.0155	0.3699
40	14.42	-0.07	0.1032	-0.0010	0.0141	-0.0102	0.1365	0.7518	-0.0114	0.2753	-0.0152	0.3662
41	14.79	-0.08	0.1026	-0.0014	0.0141	-0.0141	0.1373	0.7672	-0.0116	0.2812	-0.0152	0.3666
42	15.14	-0.08	0.1108	-0.0014	0.0110	-0.0131	0.0995	0.7840	-0.0111	0.2832	-0.0142	0.3613
43	15.49	-0.07	0.1021	-0.0017	0.0140	-0.0171	0.1373	0.8140	-0.0114	0.2921	-0.0141	0.3589
44	15.81	-0.08	0.1108	-0.0018	0.0171	-0.0162	0.1545	0.8255	-0.0116	0.2940	-0.0141	0.3561
45	16.15	-0.08	0.1122	-0.0018	0.0142	-0.0165	0.1264	0.8507	-0.0113	0.3026	-0.0133	0.3557
46	16.47	-0.09	0.1050	-0.0017	0.0151	-0.0167	0.1437	0.8625	-0.0113	0.3079	-0.0132	0.3570

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		47		1.01		1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	LB4	XCPF4	YCPF4		
47	16.82	-0.08	0.1121	-0.0020	0.0143	-0.0183	0.1271	0.8854	-0.0109	0.3134	-0.0123	0.3540		
48	17.14	-0.08	0.1052	-0.0018	0.0151	-0.0176	0.1431	0.9067	-0.0104	0.3200	-0.0115	0.3530		
49	17.46	-0.08	0.1179	-0.0014	0.0177	-0.0119	0.1500	0.9240	-0.0103	0.3249	-0.0111	0.3516		
50	17.79	-0.07	0.1176	-0.0014	0.0192	-0.0119	0.1631	0.9430	-0.0096	0.3311	-0.0102	0.3511		
51	18.12	-0.09	0.1132	-0.0013	0.0143	-0.0119	0.1265	0.9586	-0.0093	0.3348	-0.0097	0.3493		
52	18.45	-0.08	0.1153	-0.0017	0.0167	-0.0152	0.1450	0.9746	-0.0090	0.3395	-0.0093	0.3483		
53	18.79	-0.07	0.1268	-0.0008	0.0154	-0.0063	0.1219	0.9940	-0.0089	0.3454	-0.0090	0.3475		
54	19.14	-0.08	0.1222	-0.0008	0.0173	-0.0065	0.1417	1.0055	-0.0085	0.3494	-0.0085	0.3474		
55	19.45	-0.08	0.1216	0.0	0.0187	0.0	0.1539	1.0274	-0.0088	0.3522	-0.0086	0.3428		
56	19.78	-0.08	0.1264	-0.0007	0.0153	-0.0055	0.1212	1.0343	-0.0087	0.3552	-0.0085	0.3435		
57	20.12	-0.08	0.1234	-0.0003	0.0203	-0.0028	0.1647	1.0467	-0.0083	0.3580	-0.0079	0.3420		
58	20.48	-0.08	0.1271	-0.0002	0.0191	-0.0020	0.1507	1.0590	-0.0077	0.3602	-0.0073	0.3401		
59	20.81	-0.08	0.1255	0.0001	0.0218	0.0012	0.1739	1.0690	-0.0069	0.3657	-0.0065	0.3421		
60	21.16	-0.09	0.1326	0.0000	0.0210	0.0004	0.1583	1.0815	-0.0067	0.3684	-0.0062	0.3406		
61	21.47	-0.08	0.1383	0.0001	0.0231	0.0007	0.1669	1.0876	-0.0072	0.3698	-0.0067	0.3400		
62	21.80	-0.10	0.1395	0.0004	0.0209	0.0032	0.1497	1.1033	-0.0067	0.3732	-0.0061	0.3383		
63	22.11	-0.08	0.1311	0.0001	0.0239	0.0011	0.1822	1.1055	-0.0072	0.3759	-0.0065	0.3400		
64	22.42	-0.09	0.1290	-0.0001	0.0215	-0.0012	0.1665	1.1182	-0.0066	0.3800	-0.0059	0.3398		
65	22.73	-0.09	0.1440	0.0003	0.0199	0.0024	0.1381	1.1365	-0.0066	0.3846	-0.0058	0.3384		
66	23.05	-0.09	0.1428	0.0007	0.0227	0.0049	0.1588	1.1442	-0.0063	0.3881	-0.0055	0.3392		
67	23.39	-0.09	0.1406	0.0010	0.0209	0.0075	0.1490	1.1585	-0.0059	0.3912	-0.0051	0.3377		
68	23.69	-0.10	0.1384	0.0004	0.0186	0.0033	0.1345	1.1675	-0.0058	0.3932	-0.0050	0.3368		
69	24.01	-0.09	0.1337	0.0006	0.0211	0.0049	0.1582	1.1760	-0.0064	0.3943	-0.0055	0.3353		
70	24.36	-0.08	0.1444	0.0012	0.0205	0.0083	0.1421	1.1810	-0.0064	0.3963	-0.0054	0.3356		
71	24.68	-0.09	0.1443	0.0006	0.0206	0.0045	0.1426	1.1904	-0.0069	0.3965	-0.0058	0.3330		
72	25.01	-0.09	0.1535	0.0007	0.0214	0.0046	0.1397	1.2028	-0.0064	0.3988	-0.0053	0.3316		
73	25.31	-0.09	0.1453	0.0007	0.0236	0.0048	0.1625	1.2040	-0.0065	0.3997	-0.0054	0.3320		
74	25.61	-0.11	0.1557	0.0008	0.0223	0.0051	0.1431	1.2213	-0.0056	0.4029	-0.0046	0.3299		
75	25.92	-0.11	0.1428	0.0006	0.0204	0.0046	0.1427	1.2242	-0.0053	0.4042	-0.0043	0.3302		
76	26.23	-0.10	0.1525	0.0008	0.0212	0.0052	0.1391	1.2235	-0.0058	0.4052	-0.0048	0.3312		
77	26.54	-0.10	0.1418	0.0012	0.0224	0.0088	0.1583	1.2463	-0.0049	0.4086	-0.0040	0.3278		
78	26.84	-0.11	0.1592	0.0016	0.0218	0.0100	0.1372	1.2506	-0.0049	0.4119	-0.0039	0.3294		
79	27.15	-0.11	0.1443	0.0011	0.0175	0.0080	0.1212	1.2577	-0.0048	0.4137	-0.0039	0.3289		
80	27.47	-0.10	0.1553	0.0016	0.0225	0.0103	0.1478	1.2657	-0.0050	0.4156	-0.0040	0.3284		
81	27.76	-0.11	0.1525	0.0007	0.0212	0.0046	0.1391	1.2762	-0.0042	0.4200	-0.0033	0.3291		
82	28.06	-0.10	0.1472	0.0015	0.0191	0.0105	0.1301	1.2853	-0.0039	0.4228	-0.0030	0.3289		
83	28.36	-0.10	0.1597	0.0021	0.0218	0.0131	0.1366	1.2922	-0.0043	0.4257	-0.0034	0.3294		
84	28.65	-0.09	0.1493	0.0012	0.0216	0.0080	0.1450	1.3012	-0.0031	0.4289	-0.0024	0.3296		
85	28.97	-0.12	0.1600	0.0020	0.0211	0.0125	0.1320	1.3084	-0.0024	0.4303	-0.0018	0.3289		
86	29.31	-0.12	0.1665	0.0020	0.0217	0.0120	0.1302	1.3137	-0.0019	0.4316	-0.0015	0.3286		
87	29.63	-0.11	0.1584	0.0026	0.0246	0.0164	0.1552	1.3164	-0.0014	0.4328	-0.0011	0.3288		
88	29.94	-0.11	0.1710	0.0020	0.0258	0.0120	0.1508	1.3196	0.0003	0.4329	0.0002	0.3281		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	48	1.05	1.7	0.0	B2M3F12	16.750	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.76	-0.06	-0.5280	0.5921	0.0454	-0.1715	0.0050	0.3268	-1.1201	
2	-2.76	-0.01	-0.5119	0.5827	0.0710	-0.0444	0.0050	0.3289	-1.1383	
3	-2.44	-0.06	-0.4631	0.5204	0.0486	-0.1010	0.0070	0.3276	-1.1237	
4	-1.85	-0.06	-0.3668	0.3755	0.0280	-0.0688	0.0050	0.3224	-1.0238	
5	-1.30	0.0	-0.2754	0.2783	0.0825	0.0075	0.0050	0.3354	-1.0115	
6	-0.72	-0.02	-0.1463	0.1508	0.0634	-0.0557	0.0040	0.3324	-1.0309	
7	-0.18	-0.02	-0.0522	0.0981	0.0251	-0.1101	0.0040	0.3371	-1.8789	
8	0.36	-0.02	-0.0082	0.0565	0.0108	0.0239	0.0020	0.3366	-6.8878	
9	0.88	-0.05	0.1185	-0.0219	-0.0144	-0.0688	0.0040	0.3392	-0.1848	
10	1.40	-0.02	0.1844	-0.1127	0.0717	-0.1224	0.0070	0.3479	-0.5985	
11	1.91	-0.01	0.2989	-0.2064	0.0815	-0.0491	0.0020	0.3466	-0.6407	
12	2.42	-0.01	0.3785	-0.3399	0.0513	-0.0488	0.0060	0.3472	-0.8980	
13	2.88	-0.01	0.4855	-0.4528	0.0641	-0.0587	0.0070	0.3434	-0.9325	
14	3.36	-0.03	0.5876	-0.6217	0.0847	-0.0546	0.0050	0.3389	-1.0580	
15	3.82	0.0	0.7035	-0.7569	0.1251	-0.0107	0.0060	0.3448	-1.0760	
16	4.26	-0.03	0.8069	-0.8937	0.0879	-0.0091	0.0070	0.3449	-1.1076	
17	4.72	-0.02	0.9291	-1.1127	0.0321	-0.0479	0.0020	0.3374	-1.1977	
18	5.17	-0.05	1.0080	-1.2212	0.0178	-0.0369	0.0060	0.3442	-1.2115	
19	5.66	-0.07	1.1563	-1.4179	-0.0089	-0.0685	0.0050	0.3442	-1.2262	
20	6.09	-0.06	1.2552	-1.5854	0.0066	-0.1235	0.0070	0.3475	-1.2630	
21	6.56	-0.05	1.3635	-1.7614	0.0099	-0.0978	0.0070	0.3491	-1.2922	
22	7.00	-0.03	1.4427	-1.9428	0.0635	0.0041	0.0070	0.3425	-1.3466	
23	7.46	-0.07	1.5470	-2.1358	0.0316	0.0218	0.0090	0.3424	-1.3806	
24	7.89	-0.07	1.6350	-2.2210	0.1534	-0.0578	0.0080	0.3432	-1.3584	
25	8.33	-0.06	1.7729	-2.4470	0.0918	-0.0315	0.0050	0.3438	-1.3803	
26	8.74	-0.02	1.8891	-2.6067	-0.0014	-0.1080	0.0070	0.3432	-1.3799	
27	9.15	-0.12	2.0018	-2.7736	0.0080	-0.1712	0.0100	0.3457	-1.3855	
28	9.55	-0.06	2.1123	-2.9792	0.0412	-0.0687	0.0080	0.3409	-1.4104	
29	9.96	-0.06	2.2067	-3.1174	0.0302	-0.0143	0.0070	0.3406	-1.4127	
30	10.37	-0.03	2.3462	-3.3357	0.0016	-0.1082	0.0100	0.3370	-1.4217	
31	10.79	-0.02	2.4297	-3.4325	0.0460	-0.0704	0.0100	0.3357	-1.4128	
32	11.21	-0.05	2.5795	-3.6382	-0.0884	-0.1102	0.0070	0.3277	-1.4105	
33	11.58	-0.04	2.6917	-3.8284	0.0875	-0.1085	0.0040	0.3268	-1.4225	
34	11.95	-0.07	2.7770	-3.9388	-0.0092	-0.0061	0.0060	0.3201	-1.4184	
35	12.31	-0.05	2.8525	-4.0835	0.0161	0.0545	0.0060	0.3206	-1.4315	
36	12.67	-0.06	2.9754	-4.2316	0.0400	-0.0720	0.0060	0.3142	-1.4222	
37	13.00	-0.07	3.1037	-4.4562	-0.0411	0.0285	0.0110	0.3118	-1.4358	
38	13.39	-0.06	3.1962	-4.5716	0.0322	-0.0591	0.0050	0.3092	-1.4303	
39	13.74	-0.08	3.3511	-4.7905	-0.0124	-0.0606	0.0110	0.3042	-1.4295	
40	14.10	-0.08	3.4069	-4.8566	-0.0664	0.0260	0.0070	0.3055	-1.4255	
41	14.44	-0.08	3.5515	-4.9881	-0.0247	-0.0114	0.0060	0.3042	-1.4045	
42	14.81	-0.07	3.6229	-5.1291	-0.0105	0.0717	0.0050	0.2997	-1.4157	
43	15.18	-0.09	3.7600	-5.2310	-0.1168	0.0415	0.0	0.3015	-1.3912	
44	15.53	-0.05	3.8514	-5.3440	0.0649	0.1141	0.0060	0.3017	-1.3875	
45	15.86	-0.07	3.9434	-5.4907	-0.0164	0.1339	0.0030	0.2972	-1.3924	
46	16.18	-0.07	3.9966	-5.6182	0.0027	0.0732	-0.0050	0.2972	-1.4058	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		48 1.05 1.7				0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	16.52	-0.06	4.1242	-5.7008	0.0525	0.0835	-0.0050	0.2947	-1.3823				
48	16.85	-0.09	4.2066	-5.8223	-0.0587	0.0662	-0.0050	0.2898	-1.3841				
49	17.20	-0.09	4.3140	-5.9407	-0.0683	0.0206	-0.0060	0.2857	-1.3771				
50	17.52	-0.07	4.4409	-6.0843	-0.0618	0.2785	-0.0040	0.2824	-1.3701				
51	17.85	-0.07	4.5852	-6.3093	-0.0859	0.2552	0.0020	0.2749	-1.3760				
52	18.17	-0.07	4.6980	-6.4672	-0.0284	0.1547	-0.0070	0.2495	-1.3766				
53	18.52	-0.07	4.8085	-6.6259	-0.0284	0.1557	-0.0130	0.2352	-1.3780				
54	18.85	-0.07	4.9138	-6.7243	-0.0491	0.1817	-0.0190	0.2299	-1.3685				
55	19.17	-0.08	5.0088	-6.8514	-0.0620	0.1158	-0.0140	0.2257	-1.3679				
56	19.51	-0.07	5.1675	-7.0476	-0.0312	0.1327	-0.0170	0.2359	-1.3638				
57	19.83	-0.06	5.2479	-7.1351	0.0818	0.0445	-0.0240	0.2502	-1.3596				
58	20.18	-0.07	5.3768	-7.2056	0.0031	0.1386	-0.0190	0.2650	-1.3401				
59	20.51	-0.07	5.4015	-7.1661	-0.0431	0.1703	-0.0190	0.2640	-1.3267				
60	20.88	-0.11	5.5126	-7.1607	-0.1775	0.1485	-0.0290	0.2517	-1.2990				
61	21.22	-0.09	5.6221	-7.1800	-0.0957	0.2389	-0.0180	0.2469	-1.2771				
62	21.54	-0.09	5.6869	-7.2787	-0.0684	0.2367	-0.0290	0.2409	-1.2799				
63	21.87	-0.08	5.7813	-7.3080	-0.0601	0.2771	-0.0270	0.2422	-1.2641				
64	22.17	-0.09	5.8311	-7.4087	-0.0491	0.1817	-0.0300	0.2348	-1.2705				
65	22.46	-0.10	5.9413	-7.4960	-0.0888	0.1123	-0.0220	0.2367	-1.2617				
66	22.79	-0.09	6.0302	-7.5634	-0.0728	0.1559	-0.0200	0.2310	-1.2543				
67	23.10	-0.09	6.1461	-7.7306	-0.0492	0.1489	-0.0190	0.2170	-1.2578				
68	23.42	-0.08	6.2861	-7.7696	0.0360	0.1546	-0.0290	0.1936	-1.2360				
69	23.76	-0.09	6.4168	-7.6686	0.0193	0.1230	-0.0320	0.1770	-1.1951				
70	24.04	-0.09	6.4759	-7.7404	-0.0436	0.2090	-0.0200	0.1664	-1.1953				
71	24.42	-0.09	6.6590	-7.6269	-0.0635	0.2629	-0.0290	0.1585	-1.1453				
72	24.73	-0.09	6.7849	-7.7021	-0.0309	0.2622	-0.0270	0.1639	-1.1352				
73	25.05	-0.08	6.8944	-7.7934	-0.0258	0.2591	-0.0330	0.1709	-1.1304				
74	25.35	-0.09	7.0084	-7.8650	-0.0805	0.2997	-0.0340	0.1811	-1.1222				
75	25.67	-0.10	7.1365	-7.8943	-0.0912	0.2666	-0.0340	0.1882	-1.1062				
76	25.95	-0.09	7.2292	-7.8871	-0.1115	0.5880	-0.0350	0.1875	-1.0910				
77	26.26	-0.11	7.3004	-7.9289	-0.1371	0.3289	-0.0350	0.1821	-1.0861				
78	26.56	-0.11	7.4062	-7.9200	-0.1652	0.5212	-0.0440	0.1766	-1.0608				
79	26.87	-0.11	7.5077	-7.8861	-0.2325	0.6764	-0.0500	0.1726	-1.0504				
80	27.20	-0.10	7.6626	-7.8840	-0.1235	0.3679	-0.0610	0.1605	-1.0289				
81	27.50	-0.10	7.8160	-7.8878	-0.1244	0.5451	-0.0630	0.1523	-1.0092				
82	27.81	-0.11	7.8812	-7.9410	-0.1434	0.3297	-0.0670	0.1555	-1.0076				
83	28.09	-0.10	7.9689	-8.0338	-0.3333	1.0665	-0.0680	0.1580	-1.0082				
84	28.42	-0.09	8.1383	-7.9871	-0.0907	0.4489	-0.0670	0.1457	-0.9814				
85	28.72	-0.09	8.2142	-8.0114	-0.0499	0.6038	-0.0750	0.1419	-0.9753				
86	29.06	-0.10	8.3191	-7.9552	-0.0606	0.4088	-0.0650	0.1358	-0.9563				
87	29.36	-0.14	8.4359	-8.0367	-0.2068	0.1605	-0.0680	0.1206	-0.9527				
88	29.68	-0.11	8.5867	-8.0529	-0.0901	0.3531	-0.0780	0.0985	-0.9378				
89	29.99	-0.10	8.6976	-7.9661	-0.1443	0.5100	-0.0900	0.0718	-0.9159				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	48	1.05	1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.70	-0.06	-0.0144	0.0010	-0.0170	-0.0694	1.1804	-0.1422	0.0087	-0.0436	-0.0615	0.3065
2	-2.76	-0.01	-0.0285	0.0012	-0.0154	-0.0421	0.5402	-0.1382	0.0086	-0.0433	-0.0622	0.3137
3	-2.44	-0.06	-0.0285	0.0012	-0.0154	-0.0421	0.5402	-0.1284	0.0076	-0.0368	-0.0605	0.2913
4	-1.85	-0.06	-0.0144	0.0010	-0.0170	-0.0694	1.1804	-0.1010	0.0060	-0.0259	-0.0594	0.2570
5	-1.30	0.0	-0.0144	0.0010	-0.0170	-0.0694	1.1804	-0.0818	0.0044	-0.0176	-0.0544	0.2146
6	-0.72	-0.02	-0.0144	0.0010	-0.0169	-0.0694	1.1735	-0.0605	0.0019	-0.0057	-0.0322	0.0935
7	-0.18	-0.02	-0.0143	0.0009	-0.0169	-0.0664	1.1794	-0.0420	0.0003	0.0006	-0.0083	-0.0144
8	0.36	-0.02	0.0039	0.0007	-0.0190	0.1923	-4.8719	-0.0205	-0.0018	0.0083	0.0698	-0.3121
9	0.88	-0.05	0.0053	0.0006	-0.0190	0.1226	-3.5913	-0.0098	-0.0039	0.0170	0.3979	-1.7382
10	1.40	-0.02	-0.0003	0.0007	-0.0184	-2.4996	61.3332	0.0056	-0.0052	0.0254	-0.9284	4.5296
11	1.91	-0.01	-0.0004	0.0008	-0.0184	-1.9996	46.0832	0.0274	-0.0070	0.0348	-0.2554	1.2712
12	2.42	-0.01	0.0039	0.0007	-0.0189	0.1923	-4.8463	0.0494	-0.0081	0.0422	-0.1639	0.8535
13	2.88	-0.01	0.0095	0.0006	-0.0195	0.0684	-2.0565	0.0695	-0.0097	0.0528	-0.1395	0.7606
14	3.36	-0.03	-0.0003	0.0007	-0.0184	-2.4996	61.3332	0.0947	-0.0111	0.0644	-0.1172	0.6866
15	3.82	0.0	-0.0003	0.0007	-0.0184	-2.4996	61.3332	0.1149	-0.0116	0.0733	-0.1009	0.6378
16	4.26	-0.03	0.0081	0.0006	-0.0193	0.0802	-2.3828	0.1381	-0.0122	0.0810	-0.0887	0.5867
17	4.72	-0.02	0.0108	0.0006	-0.0196	0.0602	-1.8149	0.1616	-0.0131	0.0918	-0.0814	0.5684
18	5.17	-0.05	0.0137	0.0005	-0.0195	0.0401	-1.4551	0.1811	-0.0132	0.0990	-0.0729	0.5469
19	5.66	-0.07	0.0108	0.0006	-0.0196	0.0555	-1.8149	0.2062	-0.0135	0.1100	-0.0655	0.5335
20	6.09	-0.06	0.0052	0.0007	-0.0190	0.1346	-3.6476	0.2272	-0.0132	0.1195	-0.0581	0.5260
21	6.56	-0.05	0.0053	0.0006	-0.0189	0.1226	-3.5724	0.2529	-0.0134	0.1276	-0.0530	0.5048
22	7.00	-0.03	0.0053	0.0006	-0.0189	0.1226	-3.5724	0.2757	-0.0133	0.1356	-0.0482	0.4917
23	7.46	-0.07	0.0109	0.0005	-0.0196	0.0504	-1.7952	0.3007	-0.0134	0.1450	-0.0447	0.4822
24	7.89	-0.07	-0.0044	0.0008	-0.0179	-0.1818	4.0605	0.3179	-0.0139	0.1503	-0.0437	0.4728
25	8.33	-0.06	0.0053	0.0006	-0.0189	0.1226	-3.5724	0.3498	-0.0142	0.1601	-0.0406	0.4575
26	8.74	-0.02	0.0053	0.0006	-0.0189	0.1132	-3.5724	0.3738	-0.0145	0.1702	-0.0388	0.4552
27	9.15	-0.12	-0.0016	0.0007	-0.0182	-0.4374	11.3957	0.3929	-0.0143	0.1760	-0.0364	0.4480
28	9.55	-0.06	0.0137	0.0005	-0.0198	0.0365	-1.4478	0.4147	-0.0140	0.1840	-0.0339	0.4436
29	9.96	-0.06	0.0095	0.0005	-0.0194	0.0579	-2.0457	0.4372	-0.0138	0.1907	-0.0317	0.4361
30	10.37	-0.03	0.0109	0.0005	-0.0196	0.0504	-1.7952	0.4637	-0.0134	0.1990	-0.0290	0.4292
31	10.79	-0.02	0.0053	0.0006	-0.0189	0.1132	-3.5724	0.4781	-0.0131	0.2051	-0.0274	0.4290
32	11.21	-0.05	0.0179	0.0004	-0.0204	0.0251	-1.1416	0.5014	-0.0134	0.2116	-0.0268	0.4219
33	11.58	-0.04	0.0053	0.0006	-0.0190	0.1226	-3.5913	0.5287	-0.0134	0.2205	-0.0254	0.4170
34	11.95	-0.07	-0.0002	0.0007	-0.0184	-3.4996	91.8332	0.5425	-0.0132	0.2233	-0.0244	0.4115
35	12.31	-0.05	0.0221	0.0003	-0.0208	0.0158	-0.9428	0.5573	-0.0127	0.2284	-0.0229	0.4098
36	12.67	-0.06	0.0193	0.0004	-0.0206	0.0233	-1.0657	0.5810	-0.0129	0.2349	-0.0222	0.4043
37	13.00	-0.07	0.0375	0.0002	-0.0226	0.0053	-0.6028	0.5991	-0.0128	0.2401	-0.0214	0.4008
38	13.39	-0.06	0.0418	0.0001	-0.0232	0.0024	-0.5543	0.6203	-0.0128	0.2453	-0.0206	0.3954
39	13.74	-0.08	0.0475	0.0	-0.0235	0.0	-0.5026	0.6408	-0.0130	0.2505	-0.0203	0.3909
40	14.10	-0.08	0.0475	0.0	-0.0235	0.0	-0.5026	0.6547	-0.0129	0.2538	-0.0197	0.3877
41	14.44	-0.08	0.0670	-0.0002	-0.0260	-0.0037	-0.3877	0.6767	-0.0126	0.2588	-0.0186	0.3824
42	14.81	-0.07	0.0670	-0.0002	-0.0260	-0.0037	-0.3877	0.6849	-0.0125	0.2630	-0.0183	0.3840
43	15.18	-0.09	0.0882	-0.0003	-0.0284	-0.0062	-0.3221	0.7012	-0.0120	0.2668	-0.0172	0.3806
44	15.53	-0.05	0.0897	-0.0006	-0.0286	-0.0072	-0.3190	0.7158	-0.0115	0.2696	-0.0161	0.3771
45	15.86	-0.07	0.0881	-0.0005	-0.0283	-0.0062	-0.3217	0.7362	-0.0116	0.2732	-0.0158	0.3711
46	16.18	-0.07	0.1076	-0.0008	-0.0303	-0.0079	-0.2839	0.7510	-0.0116	0.2769	-0.0155	0.3688

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	48	1.05	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.52	-0.06	0.1105	-0.0009	-0.0309	-0.0086	-0.2795	0.7697	-0.0117	0.2830	-0.0153	0.3676
48	16.85	-0.09	0.1175	-0.0010	-0.0316	-0.0089	-0.2693	0.7836	-0.0115	0.2860	-0.0147	0.3650
49	17.20	-0.09	0.1315	-0.0012	-0.0333	-0.0095	-0.2531	0.8011	-0.0112	0.2908	-0.0140	0.3630
50	17.52	-0.07	0.1398	-0.0014	-0.0341	-0.0104	-0.2440	0.8211	-0.0116	0.2942	-0.0142	0.3583
51	17.85	-0.07	0.1317	-0.0013	-0.0333	-0.0099	-0.2530	0.8452	-0.0116	0.3005	-0.0137	0.3556
52	18.17	-0.07	0.1263	-0.0012	-0.0327	-0.0099	-0.2590	0.8597	-0.0101	0.3067	-0.0117	0.3567
53	18.52	-0.07	0.1552	-0.0017	-0.0360	-0.0110	-0.2319	0.8839	-0.0091	0.3121	-0.0103	0.3531
54	18.85	-0.07	0.1611	-0.0017	-0.0367	-0.0109	-0.2279	0.9005	-0.0087	0.3166	-0.0097	0.3515
55	19.17	-0.08	0.1699	-0.0019	-0.0378	-0.0112	-0.2224	0.9172	-0.0087	0.3214	-0.0095	0.3504
56	19.51	-0.07	0.1614	-0.0017	-0.0368	-0.0108	-0.2281	0.9445	-0.0092	0.3277	-0.0097	0.3470
57	19.83	-0.06	0.1670	-0.0018	-0.0374	-0.0111	-0.2243	0.9604	-0.0098	0.3341	-0.0103	0.3479
58	20.18	-0.07	0.1697	-0.0020	-0.0377	-0.0121	-0.2225	0.9675	-0.0108	0.3352	-0.0112	0.3464
59	20.51	-0.07	0.1745	-0.0020	-0.0381	-0.0115	-0.2186	0.9750	-0.0104	0.3366	-0.0107	0.3452
60	20.88	-0.11	0.1791	-0.0020	-0.0386	-0.0114	-0.2156	0.9824	-0.0098	0.3382	-0.0100	0.3442
61	21.22	-0.09	0.1784	-0.0020	-0.0384	-0.0112	-0.2156	0.9914	-0.0104	0.3409	-0.0105	0.3438
62	21.54	-0.09	0.1905	-0.0022	-0.0397	-0.0118	-0.2085	1.0014	-0.0099	0.3423	-0.0099	0.3418
63	21.87	-0.08	0.1946	-0.0023	-0.0401	-0.0118	-0.2064	1.0058	-0.0103	0.3438	-0.0103	0.3418
64	22.17	-0.09	0.1946	-0.0023	-0.0401	-0.0118	-0.2064	1.0105	-0.0106	0.3466	-0.0105	0.3432
65	22.46	-0.10	0.1674	-0.0019	-0.0372	-0.0113	-0.2223	1.0217	-0.0118	0.3508	-0.0116	0.3434
66	22.79	-0.09	0.1816	-0.0021	-0.0388	-0.0118	-0.2136	1.0310	-0.0122	0.3505	-0.0118	0.3400
67	23.10	-0.09	0.1514	-0.0017	-0.0354	-0.0112	-0.2342	1.0423	-0.0127	0.3545	-0.0122	0.3401
68	23.42	-0.08	0.1646	-0.0018	-0.0370	-0.0112	-0.2251	1.0510	-0.0116	0.3573	-0.0111	0.3400
69	23.76	-0.09	0.1699	-0.0020	-0.0377	-0.0118	-0.2218	1.0461	-0.0120	0.3566	-0.0115	0.3409
70	24.04	-0.09	0.1460	-0.0016	-0.0350	-0.0110	-0.2401	1.0542	-0.0126	0.3572	-0.0119	0.3388
71	24.42	-0.09	0.1947	-0.0024	-0.0406	-0.0123	-0.2086	1.0577	-0.0140	0.3588	-0.0133	0.3393
72	24.73	-0.09	0.1838	-0.0022	-0.0394	-0.0122	-0.2147	1.0608	-0.0150	0.3595	-0.0141	0.3389
73	25.05	-0.08	0.1966	-0.0024	-0.0408	-0.0125	-0.2075	1.0685	-0.0160	0.3626	-0.0150	0.3394
74	25.35	-0.09	0.2108	-0.0026	-0.0425	-0.0126	-0.2014	1.0773	-0.0165	0.3645	-0.0153	0.3383
75	25.67	-0.10	0.1906	-0.0023	-0.0402	-0.0121	-0.2109	1.0888	-0.0177	0.3679	-0.0163	0.3379
76	25.95	-0.09	0.2189	-0.0029	-0.0433	-0.0135	-0.1976	1.0884	-0.0175	0.3670	-0.0161	0.3372
77	26.26	-0.11	0.2045	-0.0026	-0.0416	-0.0130	-0.2037	1.0999	-0.0186	0.3692	-0.0169	0.3357
78	26.56	-0.11	0.2187	-0.0028	-0.0432	-0.0130	-0.1976	1.0970	-0.0189	0.3702	-0.0173	0.3375
79	26.87	-0.11	0.2755	-0.0039	-0.0497	-0.0141	-0.1802	1.1012	-0.0185	0.3691	-0.0168	0.3352
80	27.20	-0.10	0.2541	-0.0033	-0.0472	-0.0132	-0.1859	1.1182	-0.0185	0.3719	-0.0165	0.3326
81	27.50	-0.10	0.2982	-0.0042	-0.0522	-0.0142	-0.1750	1.1271	-0.0179	0.3741	-0.0159	0.3319
82	27.81	-0.11	0.2949	-0.0039	-0.0518	-0.0134	-0.1756	1.1378	-0.0180	0.3774	-0.0159	0.3317
83	28.09	-0.10	0.3745	-0.0055	-0.0608	-0.0147	-0.1622	1.1249	-0.0187	0.3729	-0.0167	0.3315
84	28.42	-0.09	0.3462	-0.0049	-0.0576	-0.0143	-0.1664	1.1512	-0.0192	0.3780	-0.0167	0.3284
85	28.72	-0.09	0.3461	-0.0048	-0.0576	-0.0140	-0.1665	1.1623	-0.0181	0.3823	-0.0156	0.3289
86	29.06	-0.10	0.2451	-0.0031	-0.0462	-0.0126	-0.1886	1.1857	-0.0173	0.3890	-0.0146	0.3281
87	29.36	-0.14	0.2690	-0.0033	-0.0490	-0.0125	-0.1820	1.1831	-0.0178	0.3867	-0.0151	0.3269
88	29.68	-0.11	0.2803	-0.0035	-0.0503	-0.0125	-0.1793	1.1841	-0.0171	0.3872	-0.0145	0.3270
89	29.99	-0.10	0.2314	-0.0025	-0.0448	-0.0108	-0.1936	1.2059	-0.0147	0.3905	-0.0122	0.3238

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	48	1.05	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED	
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.76	-0.06	0.0706	-0.0020	-0.0047	-0.0283	-0.0662	-0.1618	0.0084	-0.0377	-0.0522	0.2331
2	-2.76	-0.01	0.0675	-0.0020	-0.0051	-0.0304	-0.0757	-0.1602	0.0084	-0.0392	-0.0527	0.2446
3	-2.44	-0.06	0.0535	-0.0020	-0.0035	-0.0383	-0.0649	-0.1462	0.0078	-0.0343	-0.0537	0.2347
4	-1.89	-0.06	0.0674	-0.0020	-0.0050	-0.0304	-0.0748	-0.1111	0.0059	-0.0233	-0.0535	0.2099
5	-1.30	0.0	0.0669	-0.0024	-0.0043	-0.0359	-0.0644	-0.0833	0.0041	-0.0146	-0.0498	0.1748
6	-0.72	-0.02	0.0690	-0.0029	-0.0026	-0.0427	-0.0378	-0.0538	0.0019	-0.0044	-0.0362	0.0823
7	-0.18	-0.02	0.0711	-0.0034	-0.0009	-0.0478	-0.0128	-0.0274	-0.0004	0.0031	0.0146	-0.1120
8	0.36	-0.02	0.0643	-0.0040	-0.0008	-0.0622	-0.0120	-0.0064	-0.0022	0.0088	0.3515	-1.3699
9	0.88	-0.05	0.0643	-0.0039	-0.0008	-0.0606	-0.0120	0.0203	-0.0047	0.0177	-0.2339	0.8702
10	1.40	-0.02	0.0641	-0.0043	-0.0007	-0.0671	-0.0116	0.0454	-0.0062	0.0252	-0.1365	0.5557
11	1.91	-0.01	0.0661	-0.0043	0.0015	-0.0658	0.0231	0.0682	-0.0078	0.0329	-0.1143	0.4828
12	2.42	-0.01	0.0668	-0.0042	0.0002	-0.0636	0.0024	0.0951	-0.0091	0.0437	-0.0962	0.4594
13	2.88	-0.01	0.0626	-0.0043	0.0020	-0.0695	0.0313	0.1250	-0.0106	0.0523	-0.0852	0.4188
14	3.36	-0.03	0.0681	-0.0043	0.0035	-0.0639	0.0572	0.1554	-0.0118	0.0626	-0.0759	0.4027
15	3.82	0.0	0.0694	-0.0043	0.0011	-0.0627	0.0162	0.1759	-0.0123	0.0715	-0.0699	0.4066
16	4.26	-0.03	0.0795	-0.0039	0.0007	-0.0497	0.0087	0.2000	-0.0126	0.0808	-0.0632	0.4042
17	4.72	-0.02	0.0810	-0.0039	0.0037	-0.0481	0.0496	0.2266	-0.0134	0.0914	-0.0591	0.4034
18	5.17	-0.05	0.0777	-0.0039	0.0040	-0.0508	0.0514	0.2484	-0.0130	0.1002	-0.0523	0.4033
19	5.66	-0.07	0.0764	-0.0035	0.0067	-0.0465	0.0871	0.2747	-0.0126	0.1103	-0.0458	0.4016
20	6.09	-0.06	0.0897	-0.0036	0.0058	-0.0401	0.0645	0.3077	-0.0122	0.1215	-0.0396	0.3949
21	6.56	-0.05	0.0765	-0.0032	0.0090	-0.0414	0.1141	0.3312	-0.0123	0.1305	-0.0371	0.3939
22	7.00	-0.03	0.0867	-0.0032	0.0055	-0.0375	0.0633	0.3524	-0.0126	0.1385	-0.0357	0.3931
23	7.46	-0.07	0.0853	-0.0028	0.0081	-0.0334	0.0952	0.3812	-0.0126	0.1490	-0.0332	0.3909
24	7.89	-0.07	0.1018	-0.0029	0.0075	-0.0285	0.0739	0.3980	-0.0127	0.1527	-0.0320	0.3837
25	8.33	-0.06	0.1018	-0.0028	0.0075	-0.0275	0.0739	0.4214	-0.0130	0.1630	-0.0308	0.3868
26	8.74	-0.02	0.0957	-0.0025	0.0070	-0.0266	0.0730	0.4487	-0.0130	0.1698	-0.0291	0.3784
27	9.15	-0.12	0.1018	-0.0023	0.0082	-0.0231	0.0808	0.4682	-0.0132	0.1774	-0.0283	0.3789
28	9.55	-0.06	0.1019	-0.0022	0.0082	-0.0221	0.0800	0.4955	-0.0130	0.1886	-0.0263	0.3806
29	9.96	-0.06	0.1016	-0.0022	0.0085	-0.0221	0.0872	0.5103	-0.0128	0.1954	-0.0251	0.3830
30	10.37	-0.03	0.0974	-0.0022	0.0106	-0.0231	0.1084	0.5403	-0.0128	0.2045	-0.0238	0.3786
31	10.79	-0.02	0.0975	-0.0019	0.0105	-0.0200	0.1076	0.5602	-0.0128	0.2103	-0.0229	0.3753
32	11.21	-0.05	0.1025	-0.0018	0.0135	-0.0180	0.1352	0.5779	-0.0125	0.2176	-0.0217	0.3765
33	11.58	-0.04	0.0965	-0.0015	0.0133	-0.0161	0.1374	0.6078	-0.0125	0.2242	-0.0206	0.3689
34	11.95	-0.07	0.1028	-0.0012	0.0138	-0.0122	0.1338	0.6206	-0.0127	0.2299	-0.0205	0.3704
35	12.31	-0.05	0.1059	-0.0010	0.0084	-0.0094	0.0792	0.6394	-0.0125	0.2352	-0.0196	0.3679
36	12.67	-0.06	0.1120	-0.0013	0.0090	-0.0116	0.0805	0.6606	-0.0126	0.2407	-0.0191	0.3644
37	13.00	-0.07	0.1033	-0.0008	0.0138	-0.0077	0.1338	0.6928	-0.0126	0.2513	-0.0183	0.3628
38	13.39	-0.06	0.1103	-0.0012	0.0131	-0.0113	0.1183	0.7013	-0.0131	0.2559	-0.0187	0.3649
39	13.74	-0.08	0.1001	-0.0008	0.0143	-0.0080	0.1424	0.7320	-0.0128	0.2636	-0.0175	0.3601
40	14.10	-0.08	0.1035	-0.0010	0.0138	-0.0097	0.1332	0.7448	-0.0126	0.2660	-0.0170	0.3571
41	14.44	-0.08	0.1194	-0.0007	0.0146	-0.0063	0.1222	0.7681	-0.0125	0.2739	-0.0163	0.3566
42	14.81	-0.07	0.1090	-0.0007	0.0157	-0.0069	0.1442	0.7782	-0.0123	0.2770	-0.0159	0.3560
43	15.18	-0.09	0.1149	-0.0003	0.0176	-0.0030	0.1531	0.7972	-0.0116	0.2822	-0.0146	0.3540
44	15.53	-0.05	0.1226	-0.0012	0.0148	-0.0102	0.1211	0.8206	-0.0114	0.2898	-0.0139	0.3532
45	15.86	-0.07	0.1144	-0.0012	0.0177	-0.0109	0.1549	0.8379	-0.0113	0.2934	-0.0135	0.3502
46	16.18	-0.07	0.1284	-0.0007	0.0161	-0.0058	0.1253	0.8536	-0.0120	0.2983	-0.0141	0.3495

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	48	1.05	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.52	-0.06	0.1194	-0.0009	0.0146	-0.0080	0.1222	0.8707	-0.0115	0.3017	-0.0132	0.3465
48	16.85	-0.09	0.1230	-0.0003	0.0205	-0.0028	0.1665	0.8893	-0.0116	0.3075	-0.0130	0.3458
49	17.20	-0.09	0.1145	-0.0009	0.0176	-0.0083	0.1542	0.9010	-0.0116	0.3105	-0.0129	0.3446
50	17.52	-0.07	0.1197	0.0001	0.0145	0.0008	0.1210	0.9273	-0.0110	0.3183	-0.0119	0.3432
51	17.85	-0.07	0.1232	-0.0003	0.0141	-0.0024	0.1149	0.9497	-0.0116	0.3240	-0.0122	0.3411
52	18.17	-0.07	0.1256	0.0000	0.0164	0.0004	0.1310	0.9611	-0.0109	0.3300	-0.0113	0.3433
53	18.52	-0.07	0.1157	-0.0003	0.0177	-0.0030	0.1534	0.9818	-0.0104	0.3339	-0.0106	0.3400
54	18.85	-0.07	0.1264	-0.0003	0.0166	-0.0028	0.1315	1.0000	-0.0098	0.3392	-0.0098	0.3392
55	19.17	-0.08	0.1234	0.0006	0.0176	0.0044	0.1379	1.0194	-0.0098	0.3431	-0.0096	0.3365
56	19.51	-0.07	0.1331	0.0000	0.0171	0.0004	0.1289	1.0388	-0.0095	0.3507	-0.0092	0.3376
57	19.83	-0.06	0.1286	-0.0005	0.0190	-0.0043	0.1481	1.0533	-0.0107	0.3532	-0.0102	0.3353
58	20.18	-0.07	0.1341	0.0000	0.0205	0.0004	0.1557	1.0721	-0.0105	0.3571	-0.0098	0.3331
59	20.51	-0.07	0.1349	-0.0003	0.0180	-0.0026	0.1338	1.0712	-0.0105	0.3568	-0.0098	0.3331
60	20.88	-0.11	0.1349	-0.0002	0.0225	-0.0015	0.1701	1.0790	-0.0101	0.3585	-0.0094	0.3323
61	21.22	-0.09	0.1378	-0.0003	0.0225	-0.0022	0.1634	1.0964	-0.0098	0.3636	-0.0089	0.3317
62	21.54	-0.09	0.1414	-0.0007	0.0208	-0.0049	0.1472	1.1050	-0.0096	0.3644	-0.0087	0.3298
63	21.87	-0.08	0.1459	-0.0002	0.0247	-0.0017	0.1694	1.1162	-0.0093	0.3685	-0.0083	0.3302
64	22.17	-0.09	0.1465	0.0004	0.0235	0.0027	0.1632	1.1232	-0.0094	0.3706	-0.0084	0.3299
65	22.46	-0.10	0.1486	0.0007	0.0213	0.0050	0.1434	1.1356	-0.0098	0.3746	-0.0086	0.3294
66	22.79	-0.09	0.1537	0.0001	0.0235	0.0007	0.1556	1.1402	-0.0099	0.3778	-0.0086	0.3296
67	23.10	-0.09	0.1375	0.0007	0.0252	0.0051	0.1834	1.1564	-0.0104	0.3776	-0.0090	0.3266
68	23.42	-0.08	0.1436	0.0008	0.0272	0.0056	0.1898	1.1618	-0.0093	0.3821	-0.0080	0.3289
69	23.76	-0.09	0.1550	0.0007	0.0262	0.0045	0.1693	1.1647	-0.0087	0.3829	-0.0075	0.3288
70	24.04	-0.09	0.1473	0.0004	0.0221	0.0027	0.1499	1.1721	-0.0084	0.3832	-0.0072	0.3269
71	24.42	-0.09	0.1535	0.0012	0.0240	0.0078	0.1567	1.1778	-0.0086	0.3865	-0.0073	0.3281
72	24.73	-0.09	0.1571	0.0012	0.0243	0.0076	0.1550	1.1928	-0.0085	0.3900	-0.0072	0.3269
73	25.05	-0.08	0.1598	0.0016	0.0255	0.0100	0.1624	1.2127	-0.0085	0.3951	-0.0070	0.3258
74	25.35	-0.09	0.1555	0.0007	0.0271	0.0045	0.1744	1.2237	-0.0089	0.3969	-0.0073	0.3244
75	25.67	-0.10	0.1543	0.0012	0.0260	0.0075	0.1631	1.2391	-0.0091	0.3994	-0.0074	0.3223
76	25.95	-0.09	0.1392	0.0007	0.0256	0.0050	0.1838	1.2515	-0.0088	0.4038	-0.0070	0.3227
77	26.26	-0.11	0.1534	0.0012	0.0240	0.0078	0.1566	1.2474	-0.0094	0.4024	-0.0076	0.3226
78	26.56	-0.11	0.1659	0.0016	0.0258	0.0096	0.1554	1.2564	-0.0089	0.4030	-0.0071	0.3208
79	26.87	-0.11	0.1563	0.0005	0.0243	0.0032	0.1554	1.2674	-0.0093	0.4062	-0.0074	0.3205
80	27.20	-0.10	0.1688	0.0020	0.0267	0.0118	0.1585	1.2667	-0.0090	0.4072	-0.0071	0.3215
81	27.50	-0.10	0.1558	0.0020	0.0263	0.0128	0.1689	1.2798	-0.0090	0.4093	-0.0071	0.3199
82	27.81	-0.11	0.1656	0.0020	0.0264	0.0121	0.1593	1.2858	-0.0094	0.4090	-0.0073	0.3181
83	28.09	-0.10	0.1531	0.0008	0.0240	0.0052	0.1569	1.2971	-0.0099	0.4142	-0.0076	0.3193
84	28.42	-0.09	0.1660	0.0022	0.0257	0.0133	0.1549	1.3018	-0.0096	0.4148	-0.0074	0.3186
85	28.72	-0.09	0.1566	0.0016	0.0242	0.0102	0.1544	1.3033	-0.0093	0.4169	-0.0071	0.3199
86	29.06	-0.10	0.1696	0.0020	0.0246	0.0118	0.1451	1.3060	-0.0090	0.4158	-0.0069	0.3184
87	29.36	-0.14	0.1661	0.0022	0.0314	0.0132	0.1893	1.3135	-0.0088	0.4175	-0.0067	0.3178
88	29.68	-0.11	0.1693	0.0027	0.0324	0.0159	0.1915	1.3063	-0.0078	0.4159	-0.0060	0.3184
89	29.99	-0.10	0.1670	0.0026	0.0315	0.0156	0.1889	1.3021	-0.0070	0.4152	-0.0054	0.3189

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AEDC-TR-76-126

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	49	1.10	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.36	-0.06	-0.4640	0.5497	0.2014	-0.0580	0.0050	0.3284	-1.1845		
2	-2.03	-0.04	-0.4008	0.4552	0.1356	-0.0718	0.0060	0.3422	-1.1356		
3	-1.40	-0.05	-0.2606	0.3138	-0.0853	0.0854	0.0070	0.3382	-1.2043		
4	-0.87	-0.01	-0.1996	0.2474	0.0355	0.0153	0.0040	0.3426	-1.2397		
5	-0.35	-0.07	-0.0879	0.1810	0.0183	0.0504	0.0060	0.3465	-2.0598		
6	0.21	-0.02	-0.0351	0.1291	-0.0317	0.0954	0.0050	0.3572	-3.6792		
7	0.72	-0.04	0.0506	0.0841	-0.0347	0.0386	0.0050	0.3502	1.6632		
8	1.27	-0.05	0.2108	-0.0491	0.0722	0.0199	0.0050	0.3585	-0.2330		
9	1.76	0.01	0.2703	-0.1404	0.0316	0.0368	0.0040	0.3610	-0.5195		
10	2.27	-0.04	0.3340	-0.2556	0.0191	0.0053	0.0090	0.3544	-0.7220		
11	2.75	-0.02	0.4693	-0.3501	-0.0197	-0.0314	0.0090	0.3657	-0.7460		
12	3.20	-0.02	0.5329	-0.5221	0.1103	0.1146	0.0040	0.3546	-0.9797		
13	3.69	-0.09	0.6709	-0.6503	0.0243	-0.0430	0.0070	0.3616	-0.9782		
14	4.16	-0.06	0.7940	-0.3176	-0.0587	0.0082	0.0120	0.3590	-1.0298		
15	4.63	0.0	0.9013	-0.9548	-0.0304	0.0226	0.0050	0.3713	-1.0594		
16	5.06	-0.05	0.9778	-1.0879	0.1182	-0.1165	0.0090	0.3691	-1.1126		
17	5.53	-0.07	1.0675	-1.2575	0.0759	-0.1152	0.0080	0.3760	-1.1780		
18	5.98	-0.07	1.1897	-1.4577	0.1790	-0.1096	0.0060	0.3835	-1.2252		
19	6.45	-0.05	1.3209	-1.5993	-0.1068	0.1945	0.0070	0.3876	-1.2108		
20	6.89	-0.05	1.4291	-1.7648	-0.0320	-0.1382	0.0060	0.3811	-1.2349		
21	7.36	-0.01	1.5290	-1.9456	0.1133	-0.0680	0.0070	0.3845	-1.2725		
22	7.77	-0.03	1.6643	-2.1820	0.2632	-0.2185	0.0070	0.3867	-1.3111		
23	8.21	-0.11	1.7265	-2.3281	0.0410	-0.1194	0.0080	0.3900	-1.3485		
24	8.64	0.04	1.8470	-2.4718	0.1239	-0.0685	0.0050	0.3876	-1.3383		
25	9.03	-0.08	1.9125	-2.6166	0.0252	-0.1443	0.0130	0.3870	-1.3681		
26	9.45	-0.05	2.0274	-2.7704	0.1363	-0.0318	0.0050	0.3812	-1.3704		
27	9.87	-0.08	2.1300	-2.9050	0.1550	0.0070	0.0080	0.3721	-1.3639		
28	10.28	-0.02	2.2459	-3.0633	-0.0915	-0.0485	0.0080	0.3725	-1.3639		
29	10.68	-0.05	2.3657	-3.3060	0.1971	-0.1189	0.0030	0.3694	-1.3975		
30	11.07	-0.05	2.4809	-3.5052	-0.0263	-0.0162	0.0100	0.3657	-1.4129		
31	11.46	-0.01	2.6131	-3.6273	0.0504	-0.0356	0.0080	0.3630	-1.3881		
32	11.82	0.0	2.6903	-3.7695	0.1238	-0.0473	0.0040	0.3551	-1.4011		
33	12.19	-0.02	2.8181	-3.9474	-0.0011	0.0105	0.0060	0.3592	-1.4007		
34	12.57	-0.01	2.9179	-4.1091	-0.0120	0.1178	0.0030	0.3567	-1.4082		
35	12.93	-0.05	3.0091	-4.2327	0.0254	0.0484	0.0060	0.3558	-1.4006		
36	13.30	-0.06	3.1240	-4.3686	0.0490	0.0604	0.0020	0.3536	-1.3984		
37	13.65	-0.03	3.2268	-4.4705	0.0724	0.0216	0.0080	0.3539	-1.3854		
38	14.03	-0.03	3.3506	-4.6648	0.1239	0.0805	0.0030	0.3404	-1.3922		
39	14.37	-0.07	3.4317	-4.7623	-0.0054	0.1765	0.0090	0.3352	-1.3878		
40	14.72	-0.05	3.5193	-4.8551	-0.0146	0.1954	0.0100	0.3252	-1.3795		
41	15.09	-0.06	3.6054	-4.9616	0.0417	0.1266	0.0070	0.3144	-1.3761		
42	15.43	-0.06	3.7374	-5.0954	0.0092	0.0341	0.0	0.2985	-1.3633		
43	15.77	-0.06	3.8246	-5.2625	-0.0550	0.1300	0.0050	0.3001	-1.3759		
44	16.11	-0.07	3.9233	-5.3606	-0.1034	0.2617	0.0	0.2967	-1.3664		
45	16.43	-0.06	4.0393	-5.5390	0.0502	0.1357	-0.0010	0.2966	-1.3713		
46	16.76	-0.06	4.1445	-5.6543	-0.0030	0.1302	-0.0010	0.2932	-1.3643		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 49 1.10 1-7 0.0 B2M3F12 16.750 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP
47	17.10	-0.07	4.2591	-5.8418	-0.0296	0.1664	-0.0070	0.2886	-1.3716
48	17.42	-0.08	4.3102	-5.9053	-0.1016	0.2142	-0.0080	0.2922	-1.3701
49	17.76	-0.09	4.4390	-6.0237	-0.0824	0.2133	-0.0170	0.2869	-1.3570
50	18.10	-0.05	4.5644	-6.1142	0.0512	0.2563	-0.0210	0.2881	-1.3395
51	18.44	-0.07	4.6389	-6.2225	-0.0591	0.3047	-0.0210	0.2838	-1.3414
52	18.77	-0.07	4.7739	-6.3505	-0.0159	0.1212	-0.0270	0.2797	-1.3303
53	19.10	-0.08	4.9026	-6.4856	-0.1049	0.2508	-0.0290	0.2758	-1.3229
54	19.43	-0.05	5.0065	-6.5332	0.0725	0.1765	-0.0320	0.2747	-1.3049
55	19.75	-0.07	5.0759	-6.6414	-0.0465	0.1751	-0.0330	0.2723	-1.3084
56	20.10	-0.11	5.1980	-6.7443	-0.1637	0.2102	-0.0260	0.2671	-1.2975
57	20.42	-0.10	5.2460	-6.8485	-0.0902	0.1773	-0.0320	0.2659	-1.3055
58	20.77	-0.09	5.3428	-6.8970	-0.0632	0.2294	-0.0330	0.2628	-1.2909
59	21.10	-0.08	5.4410	-6.9785	-0.0473	0.3402	-0.0290	0.2495	-1.2826
60	21.44	-0.10	5.5679	-7.0461	-0.1235	0.2069	-0.0260	0.2475	-1.2655
61	21.76	-0.10	5.6168	-7.1116	-0.1141	0.2357	-0.0250	0.2444	-1.2661
62	22.10	-0.07	5.7767	-7.1736	0.0411	0.2044	-0.0360	0.2339	-1.2418
63	22.42	-0.07	5.8890	-7.2288	0.0554	0.1444	-0.0270	0.2338	-1.2275
64	22.74	-0.09	6.0005	-7.1739	-0.0797	0.2735	-0.0350	0.2364	-1.1955
65	23.06	-0.08	6.0883	-7.2168	-0.0358	0.2341	-0.0320	0.2356	-1.1854
66	23.39	-0.07	6.2312	-7.2429	0.0647	0.2514	-0.0340	0.2282	-1.1624
67	23.71	-0.08	6.2913	-7.1940	0.0261	0.2264	-0.0360	0.2305	-1.1435
68	24.03	-0.11	6.4032	-7.2397	-0.0577	0.1738	-0.0340	0.2243	-1.1306
69	24.37	-0.09	6.5320	-7.2061	0.0084	0.2132	-0.0320	0.2287	-1.1032
70	24.68	-0.11	6.6534	-7.2231	-0.1572	0.3980	-0.0400	0.2189	-1.0856
71	25.01	-0.10	6.7477	-7.2311	-0.1102	0.3772	-0.0390	0.2164	-1.0716
72	25.31	-0.10	6.8463	-7.2191	-0.1683	0.5256	-0.0480	0.2144	-1.0545
73	25.64	-0.09	7.0232	-7.2848	-0.0110	0.3304	-0.0540	0.2065	-1.0372
74	25.93	-0.11	7.0536	-7.2783	-0.1797	0.4595	-0.0560	0.2075	-1.0319
75	26.25	-0.10	7.1996	-7.2467	-0.2035	0.6338	-0.0610	0.2019	-1.0066
76	26.54	-0.08	7.3057	-7.2194	-0.0880	0.5501	-0.0620	0.1997	-0.9882
77	26.83	-0.12	7.3905	-7.2611	-0.3120	0.5597	-0.0600	0.1940	-0.9825
78	27.16	-0.10	7.5456	-7.2113	-0.2658	0.8640	-0.0820	0.1947	-0.9557
79	27.48	-0.09	7.7133	-7.2741	-0.2124	0.8243	-0.0930	0.1863	-0.9431
80	27.81	-0.08	7.8336	-7.2585	-0.0677	0.5877	-0.1020	0.1777	-0.9266
81	28.11	-0.10	7.9147	-7.2850	-0.2232	0.6334	-0.1040	0.1767	-0.9204
82	28.42	-0.10	8.0233	-7.2861	-0.1809	0.6212	-0.1060	0.1664	-0.9081
83	28.72	-0.11	8.1513	-7.2964	-0.2760	0.7283	-0.1100	0.1638	-0.8951
84	29.04	-0.09	8.2555	-7.3033	-0.0766	0.3952	-0.1240	0.1626	-0.8847
85	29.36	-0.11	8.3935	-7.3705	-0.1272	0.4350	-0.1300	0.1605	-0.8781
86	29.66	-0.10	8.5247	-7.3102	0.0010	0.0866	-0.1200	0.1562	-0.8575
87	29.98	-0.09	8.6416	-7.5138	-0.1693	0.7349	-0.1400	0.1607	-0.8695
88	30.30	-0.07	8.7583	-7.3152	-0.2701	0.6781	-0.1290	0.1409	-0.8352
89	30.51	0.01	8.7168	-7.3751	0.3766	0.2797	-0.1200	0.1027	-0.8461

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	49.1	1.10	1.7	0.0	B2W3F12	16.750	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.36	-0.06	-0.0413	0.0010	-0.0136	-0.0242	0.3204	-0.1163	0.0074	-0.0404	-0.0640	0.3478
2	-2.03	-0.04	-0.0357	0.0009	-0.0142	-0.0252	0.3976	-0.1001	0.0056	-0.0313	-0.0559	0.3132
3	-1.40	-0.05	-0.0219	0.0007	-0.0157	-0.0320	0.7168	-0.0790	0.0038	-0.0214	-0.0481	0.2712
4	-0.87	-0.01	-0.0275	0.0008	-0.0151	-0.0291	0.5478	-0.0580	0.0018	-0.0112	-0.0310	0.1936
5	-0.35	-0.07	-0.0040	0.0004	-0.0177	-0.1125	4.4332	-0.0437	0.0000	-0.0054	-0.0011	0.1227
6	0.21	-0.02	-0.0233	0.0007	-0.0156	-0.0300	0.6660	-0.0271	-0.0023	0.0022	0.0849	-0.0801
7	0.72	-0.04	-0.0178	0.0006	-0.0161	-0.0365	0.9062	-0.0130	-0.0036	0.0089	0.2807	-0.6822
8	1.27	-0.05	-0.0220	0.0007	-0.0156	-0.0318	0.7105	0.0143	-0.0062	0.0215	-0.4335	1.5010
9	1.76	0.01	-0.0247	0.0008	-0.0154	-0.0324	0.6247	0.0334	-0.0076	0.0291	-0.2275	0.8721
10	2.27	-0.04	-0.0137	0.0006	-0.0166	-0.0438	1.2091	0.0509	-0.0090	0.0382	-0.1768	0.7497
11	2.75	-0.02	-0.0082	0.0005	-0.0172	-0.0671	2.1015	0.0661	-0.0101	0.0461	-0.1528	0.6978
12	3.20	-0.02	0.0057	0.0003	-0.0188	0.0526	-3.2984	0.0901	-0.0115	0.0555	-0.1282	0.6162
13	3.69	-0.09	-0.0137	0.0006	-0.0166	-0.0474	1.2091	0.1092	-0.0120	0.0625	-0.1099	0.5722
14	4.16	-0.06	-0.0082	0.0005	-0.0172	-0.0671	2.1015	0.1333	-0.0127	0.0710	-0.0953	0.5328
15	4.63	0.0	-0.0178	0.0007	-0.0161	-0.0393	0.9062	0.1527	-0.0133	0.0822	-0.0874	0.5382
16	5.06	-0.05	-0.0082	0.0005	-0.0172	-0.0671	2.1015	0.1782	-0.0138	0.0900	-0.0774	0.5049
17	5.53	-0.07	-0.0137	0.0006	-0.0166	-0.0474	1.2091	0.1968	-0.0139	0.0993	-0.0706	0.5045
18	5.98	-0.07	-0.0164	0.0006	-0.0163	-0.0396	0.9918	0.2174	-0.0137	0.1101	-0.0632	0.5066
19	6.45	-0.05	-0.0136	0.0006	-0.0165	-0.0441	1.2156	0.2500	-0.0142	0.1205	-0.0570	0.4820
20	6.89	-0.05	-0.0081	0.0005	-0.0172	-0.0617	2.1233	0.2682	-0.0143	0.1261	-0.0535	0.4704
21	7.36	-0.01	-0.0136	0.0006	-0.0166	-0.0441	1.2229	0.2955	-0.0146	0.1365	-0.0494	0.4616
22	7.77	-0.03	-0.0136	0.0006	-0.0165	-0.0441	1.2156	0.3232	-0.0150	0.1457	-0.0464	0.4508
23	8.21	-0.11	-0.0136	0.0005	-0.0165	-0.0404	1.2156	0.3435	-0.0150	0.1521	-0.0438	0.4426
24	8.64	0.04	-0.0094	0.0004	-0.0170	-0.0479	1.8119	0.3662	-0.0154	0.1601	-0.0420	0.4372
25	9.03	-0.08	-0.0080	0.0004	-0.0172	-0.0562	2.1457	0.3866	-0.0156	0.1674	-0.0403	0.4330
26	9.45	-0.05	-0.0135	0.0005	-0.0166	-0.0370	1.2295	0.4135	-0.0156	0.1750	-0.0383	0.4232
27	9.87	-0.06	-0.0094	0.0004	-0.0170	-0.0479	1.8119	0.4268	-0.0154	0.1788	-0.0361	0.4189
28	10.28	-0.02	-0.0135	0.0004	-0.0165	-0.0333	1.2221	0.4559	-0.0154	0.1877	-0.0339	0.4117
29	10.68	-0.05	-0.0080	0.0004	-0.0172	-0.0500	2.1457	0.4737	-0.0149	0.1949	-0.0315	0.4115
30	11.07	-0.05	-0.0080	0.0004	-0.0172	-0.0500	2.1457	0.5042	-0.0151	0.2037	-0.0299	0.4040
31	11.46	-0.01	-0.0094	0.0004	-0.0170	-0.0479	1.8119	0.5286	-0.0144	0.2101	-0.0272	0.3975
32	11.82	0.0	0.0044	0.0002	-0.0185	-0.0568	-4.2122	0.5405	-0.0137	0.2146	-0.0254	0.3970
33	12.19	-0.02	-0.0080	0.0004	-0.0172	-0.0500	2.1457	0.5623	-0.0144	0.2221	-0.0256	0.3949
34	12.57	-0.01	0.0196	-0.0000	-0.0203	-0.0026	-1.0341	0.5835	-0.0140	0.2258	-0.0241	0.3870
35	12.93	-0.05	0.0057	0.0002	-0.0187	0.0439	-3.2808	0.5997	-0.0144	0.2302	-0.0240	0.3839
36	13.30	-0.06	0.0195	-0.0000	-0.0202	-0.0026	-1.0360	0.6126	-0.0146	0.2365	-0.0238	0.3861
37	13.65	-0.03	0.0249	-0.0000	-0.0208	-0.0020	-0.8355	0.6297	-0.0149	0.2388	-0.0237	0.3793
38	14.03	-0.03	0.0385	-0.0002	-0.0223	-0.0065	-0.5785	0.6503	-0.0143	0.2442	-0.0221	0.3755
39	14.37	-0.07	0.0550	-0.0005	-0.0242	-0.0091	-0.4395	0.6675	-0.0137	0.2481	-0.0205	0.3717
40	14.72	-0.05	0.0509	-0.0004	-0.0237	-0.0088	-0.4664	0.6749	-0.0135	0.2496	-0.0200	0.3698
41	15.09	-0.06	0.0661	-0.0007	-0.0255	-0.0106	-0.3854	0.6934	-0.0143	0.2519	-0.0206	0.3634
42	15.43	-0.06	0.0798	-0.0008	-0.0270	-0.0106	-0.3385	0.7118	-0.0145	0.2591	-0.0204	0.3640
43	15.77	-0.06	0.0745	-0.0007	-0.0265	-0.0101	-0.3554	0.7263	-0.0146	0.2643	-0.0202	0.3639
44	16.11	-0.07	0.0940	-0.0011	-0.0287	-0.0117	-0.3051	0.7457	-0.0144	0.2681	-0.0194	0.3595
45	16.43	-0.06	0.0884	-0.0009	-0.0280	-0.0107	-0.3172	0.7670	-0.0148	0.2733	-0.0193	0.3563
46	16.76	-0.06	0.1064	-0.0012	-0.0300	-0.0117	-0.2424	0.7830	-0.0137	0.2771	-0.0176	0.3539

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		49	1.10	1.7		0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	17.10	-0.07	0.1243	-0.0015	-0.0321	-0.0125	-0.2581	0.8088	-0.0131	0.2847	-0.0163	0.3520	
48	17.42	-0.08	0.1243	-0.0015	-0.0321	-0.0125	-0.2581	0.8215	-0.0126	0.2871	-0.0153	0.3495	
49	17.76	-0.09	0.1423	-0.0018	-0.0342	-0.0126	-0.2402	0.8388	-0.0121	0.2921	-0.0145	0.3482	
50	18.10	-0.05	0.1478	-0.0019	-0.0347	-0.0129	-0.2351	0.8573	-0.0120	0.2972	-0.0140	0.3466	
51	18.44	-0.07	0.1338	-0.0016	-0.0331	-0.0123	-0.2475	0.8771	-0.0113	0.3009	-0.0129	0.3430	
52	18.77	-0.07	0.1792	-0.0024	-0.0383	-0.0134	-0.2137	0.8935	-0.0124	0.3045	-0.0139	0.3408	
53	19.10	-0.08	0.1574	-0.0020	-0.0358	-0.0130	-0.2278	0.9167	-0.0120	0.3107	-0.0131	0.3389	
54	19.43	-0.05	0.1656	-0.0022	-0.0367	-0.0136	-0.2217	0.9274	-0.0119	0.3131	-0.0128	0.3376	
55	19.75	-0.07	0.1639	-0.0021	-0.0365	-0.0131	-0.2226	0.9382	-0.0120	0.3172	-0.0128	0.3381	
56	20.10	-0.11	0.1656	-0.0023	-0.0367	-0.0139	-0.2217	0.9555	-0.0123	0.3202	-0.0129	0.3351	
57	20.42	-0.10	0.1834	-0.0025	-0.0387	-0.0136	-0.2110	0.9638	-0.0121	0.3240	-0.0125	0.3361	
58	20.77	-0.09	0.1840	-0.0026	-0.0388	-0.0141	-0.2101	0.9714	-0.0122	0.3262	-0.0126	0.3358	
59	21.10	-0.08	0.1787	-0.0025	-0.0381	-0.0140	-0.2135	0.9879	-0.0124	0.3296	-0.0125	0.3338	
60	21.44	-0.10	0.1692	-0.0024	-0.0370	-0.0142	-0.2188	0.9907	-0.0126	0.3320	-0.0129	0.3351	
61	21.76	-0.10	0.1487	-0.0020	-0.0347	-0.0138	-0.2337	1.0034	-0.0132	0.3354	-0.0132	0.3342	
62	22.10	-0.07	0.1707	-0.0024	-0.0372	-0.0144	-0.2180	1.0148	-0.0135	0.3387	-0.0135	0.3337	
63	22.42	-0.07	0.1296	-0.0018	-0.0326	-0.0139	-0.2517	1.0234	-0.0142	0.3421	-0.0139	0.3343	
64	22.74	-0.09	0.1474	-0.0021	-0.0346	-0.0142	-0.2346	1.0350	-0.0147	0.3430	-0.0142	0.3314	
65	23.06	-0.08	0.1335	-0.0019	-0.0330	-0.0142	-0.2473	1.0336	-0.0157	0.3432	-0.0152	0.3321	
66	23.39	-0.07	0.1323	-0.0019	-0.0325	-0.0147	-0.2488	1.0387	-0.0163	0.3458	-0.0157	0.3329	
67	23.71	-0.08	0.1433	-0.0021	-0.0341	-0.0150	-0.2383	1.0389	-0.0169	0.3452	-0.0163	0.3323	
68	24.03	-0.11	0.1376	-0.0020	-0.0334	-0.0149	-0.2431	1.0465	-0.0178	0.3469	-0.0170	0.3315	
69	24.37	-0.09	0.1199	-0.0018	-0.0314	-0.0150	-0.2623	1.0406	-0.0184	0.3446	-0.0177	0.3312	
70	24.68	-0.11	0.1605	-0.0024	-0.0359	-0.0153	-0.2238	1.0478	-0.0197	0.3459	-0.0188	0.3302	
71	25.01	-0.10	0.1701	-0.0026	-0.0370	-0.0156	-0.2176	1.0537	-0.0199	0.3489	-0.0189	0.3311	
72	25.31	-0.10	0.1973	-0.0031	-0.0400	-0.0160	-0.2030	1.0515	-0.0211	0.3484	-0.0201	0.3313	
73	25.64	-0.09	0.1973	-0.0031	-0.0400	-0.0160	-0.2030	1.0577	-0.0235	0.3513	-0.0222	0.3322	
74	25.93	-0.11	0.2108	-0.0033	-0.0416	-0.0159	-0.1971	1.0670	-0.0231	0.3534	-0.0216	0.3312	
75	26.25	-0.10	0.2516	-0.0040	-0.0462	-0.0161	-0.1635	1.0763	-0.0234	0.3557	-0.0217	0.3305	
76	26.54	-0.08	0.2282	-0.0037	-0.0435	-0.0164	-0.1904	1.0769	-0.0231	0.3560	-0.0215	0.3306	
77	26.83	-0.12	0.2450	-0.0040	-0.0455	-0.0163	-0.1851	1.0884	-0.0232	0.3569	-0.0214	0.3279	
78	27.16	-0.10	0.3037	-0.0050	-0.0522	-0.0163	-0.1707	1.0957	-0.0235	0.3592	-0.0215	0.3278	
79	27.48	-0.09	0.4009	-0.0066	-0.0629	-0.0165	-0.1568	1.1005	-0.0239	0.3598	-0.0218	0.3269	
80	27.81	-0.08	0.3952	-0.0064	-0.0623	-0.0162	-0.1576	1.1176	-0.0243	0.3634	-0.0217	0.3252	
81	28.11	-0.10	0.3541	-0.0058	-0.0577	-0.0165	-0.1628	1.1210	-0.0249	0.3645	-0.0222	0.3252	
82	28.42	-0.10	0.4082	-0.0066	-0.0636	-0.0162	-0.1559	1.1359	-0.0243	0.3670	-0.0214	0.3231	
83	28.72	-0.11	0.4133	-0.0066	-0.0642	-0.0160	-0.1554	1.1435	-0.0242	0.3690	-0.0212	0.3227	
84	29.04	-0.09	0.3724	-0.0058	-0.0597	-0.0156	-0.1602	1.1703	-0.0242	0.3772	-0.0207	0.3223	
85	29.36	-0.11	0.4484	-0.0070	-0.0682	-0.0156	-0.1522	1.1767	-0.0249	0.3779	-0.0212	0.3211	
86	29.66	-0.10	0.4160	-0.0063	-0.0645	-0.0153	-0.1551	1.1860	-0.0244	0.3801	-0.0206	0.3205	
87	29.98	-0.09	0.3526	-0.0055	-0.0574	-0.0156	-0.1627	1.1862	-0.0253	0.3815	-0.0214	0.3216	
88	30.30	-0.07	0.3773	-0.0059	-0.0601	-0.0156	-0.1594	1.1855	-0.0251	0.3805	-0.0212	0.3210	
89	30.51	0.01	0.3571	-0.0056	-0.0579	-0.0157	-0.1620	1.1853	-0.0239	0.3808	-0.0202	0.3212	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	49	1.10	1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNFJ	CH3	C83	XCPF3	YCPF3	CNF4	CM4	C84	XCPF4	YCPF4
1	-2.36	-0.06	0.0674	-0.0021	-0.0075	-0.0312	-0.1119	-0.1394	0.0077	-0.0353	-0.0556	0.2536
2	-2.03	-0.04	0.0777	-0.0020	-0.0088	-0.0257	-0.1134	-0.1177	0.0064	-0.0273	-0.0548	0.2321
3	-1.40	-0.05	0.0674	-0.0020	-0.0075	-0.0297	-0.1119	-0.0815	0.0044	-0.0185	-0.0546	0.2265
4	-0.87	-0.01	0.0845	-0.0021	-0.0095	-0.0248	-0.1129	-0.0542	0.0027	-0.0104	-0.0498	0.1911
5	-0.35	-0.07	0.0845	-0.0021	-0.0095	-0.0248	-0.1129	-0.0270	0.0002	-0.0022	-0.0074	0.0814
6	0.21	-0.02	0.0845	-0.0021	-0.0068	-0.0283	-0.0824	-0.0052	-0.0016	0.0033	0.3173	-0.6283
7	0.72	-0.04	0.0842	-0.0020	-0.0084	-0.0243	-0.1062	0.0137	-0.0032	0.0095	-0.2335	0.6909
8	1.27	-0.05	0.0847	-0.0032	-0.0045	-0.0384	-0.0529	0.0464	-0.0061	0.0215	-0.1314	0.4625
9	1.76	0.01	0.0839	-0.0033	-0.0031	-0.0399	-0.0375	0.0724	-0.0075	0.0289	-0.1043	0.3995
10	2.27	-0.04	0.0915	-0.0030	-0.0053	-0.0328	-0.0380	0.1029	-0.0090	0.0392	-0.0874	0.3808
11	2.75	-0.02	0.0938	-0.0032	-0.0036	-0.0346	-0.0389	0.1236	-0.0104	0.0492	-0.0845	0.3979
12	3.20	-0.02	0.0878	-0.0029	-0.0042	-0.0310	-0.0483	0.1500	-0.0115	0.0578	-0.0770	0.3852
13	3.69	-0.09	0.0958	-0.0033	-0.0014	-0.0344	-0.0144	0.1711	-0.0125	0.0665	-0.0730	0.3487
14	4.16	-0.06	0.0962	-0.0032	-0.0020	-0.0338	-0.0213	0.2007	-0.0134	0.0763	-0.0668	0.3801
15	4.63	0.0	0.1015	-0.0033	-0.0002	-0.0325	-0.0018	0.2225	-0.0132	0.0845	-0.0595	0.3800
16	5.06	-0.05	0.1042	-0.0033	0.0008	-0.0317	0.0079	0.2525	-0.0139	0.0956	-0.0550	0.3788
17	5.53	-0.07	0.1076	-0.0033	0.0005	-0.0307	0.0042	0.2731	-0.0137	0.1030	-0.0502	0.3772
18	5.98	-0.07	0.1146	-0.0032	0.0053	-0.0284	0.0061	0.3045	-0.0135	0.1171	-0.0443	0.3844
19	6.45	-0.05	0.1014	-0.0032	-0.0001	-0.0316	-0.0011	0.3239	-0.0139	0.1218	-0.0429	0.3761
20	6.89	-0.05	0.1116	-0.0031	0.0050	-0.0282	0.0047	0.3569	-0.0140	0.1316	-0.0393	0.3688
21	7.36	-0.01	0.1150	-0.0028	0.0046	-0.0248	0.0002	0.3795	-0.0139	0.1407	-0.0366	0.3706
22	7.77	-0.03	0.1185	-0.0027	0.0042	-0.0228	0.0033	0.4084	-0.0139	0.1499	-0.0340	0.3670
23	8.21	-0.11	0.1244	-0.0027	0.0048	-0.0221	0.0382	0.4316	-0.0143	0.1589	-0.0332	0.3682
24	8.64	0.04	0.1207	-0.0025	0.0058	-0.0211	0.0482	0.4470	-0.0141	0.1660	-0.0315	0.3712
25	9.03	-0.08	0.1230	-0.0019	0.0018	-0.0159	0.0145	0.4703	-0.0142	0.1731	-0.0303	0.3681
26	9.45	-0.05	0.1300	-0.0022	0.0066	-0.0173	0.0509	0.4905	-0.0141	0.1818	-0.0288	0.3707
27	9.87	-0.06	0.1186	-0.0019	0.0041	-0.0164	0.0347	0.5074	-0.0144	0.1855	-0.0285	0.3655
28	10.28	-0.02	0.1347	-0.0015	0.0042	-0.0111	0.0311	0.5302	-0.0139	0.1956	-0.0262	0.3684
29	10.68	-0.05	0.1418	-0.0016	0.0049	-0.0116	0.0631	0.5578	-0.0132	0.2054	-0.0237	0.3682
30	11.07	-0.05	0.1306	-0.0007	0.0064	-0.0057	0.0491	0.5849	-0.0136	0.2131	-0.0233	0.3643
31	11.46	-0.01	0.1306	-0.0007	0.0064	-0.0054	0.0491	0.6024	-0.0132	0.2197	-0.0220	0.3647
32	11.82	0.0	0.1305	-0.0009	0.0065	-0.0073	0.0497	0.6182	-0.0129	0.2235	-0.0209	0.3615
33	12.14	-0.02	0.1407	0.0	0.0059	0.0	0.0418	0.6369	-0.0124	0.2320	-0.0195	0.3631
34	12.57	-0.01	0.1431	0.0	0.0075	0.0	0.0523	0.6731	-0.0127	0.2388	-0.0189	0.3548
35	12.93	-0.05	0.1408	0.0	0.0052	0.0	0.0371	0.6831	-0.0125	0.2426	-0.0184	0.3552
36	13.30	-0.06	0.1354	0.0	0.0096	0.0	0.0710	0.6986	-0.0123	0.2480	-0.0176	0.3550
37	13.65	-0.03	0.1485	0.0	0.0087	0.0	0.0585	0.7246	-0.0124	0.2553	-0.0172	0.3524
38	14.03	-0.03	0.1509	0.0003	0.0103	0.0020	0.0681	0.7483	-0.0124	0.2618	-0.0166	0.3499
39	14.37	-0.07	0.1389	0.0006	0.0091	0.0047	0.0654	0.7620	-0.0119	0.2676	-0.0156	0.3512
40	14.72	-0.05	0.1419	-0.0002	0.0089	-0.0018	0.0626	0.7735	-0.0120	0.2713	-0.0155	0.3508
41	15.09	-0.06	0.1411	0.0003	0.0115	0.0021	0.0816	0.7917	-0.0127	0.2757	-0.0161	0.3482
42	15.43	-0.06	0.1425	0.0001	0.0085	0.0007	0.0623	0.8048	-0.0134	0.2780	-0.0166	0.3454
43	15.77	-0.06	0.1531	0.0006	0.0077	0.0039	0.0504	0.8325	-0.0135	0.2855	-0.0162	0.3429
44	16.11	-0.07	0.1418	0.0003	0.0115	0.0021	0.0815	0.8538	-0.0133	0.2918	-0.0156	0.3418
45	16.43	-0.06	0.1556	0.0006	0.0099	0.0039	0.0639	0.8647	-0.0131	0.2962	-0.0151	0.3406
46	16.76	-0.06	0.1474	0.0006	0.0134	0.0041	0.0910	0.8905	-0.0132	0.3015	-0.0148	0.3386

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION				
6	49	1.10	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	17.10	-0.07	0.1587	0.0007	0.0103	0.0044	0.0648	0.9091	-0.0129	0.3089	-0.0142	0.3398		
48	17.42	-0.08	0.1558	0.0010	0.0095	0.0064	0.0636	0.9249	-0.0130	0.3107	-0.0141	0.3359		
49	17.76	-0.09	0.1613	0.0010	0.0118	0.0062	0.0735	0.9367	-0.0131	0.3137	-0.0140	0.3349		
50	18.10	-0.05	0.1591	0.0007	0.0096	0.0044	0.0604	0.9520	-0.0132	0.3171	-0.0139	0.3331		
51	18.44	-0.07	0.1554	0.0006	0.0100	0.0039	0.0642	0.9623	-0.0132	0.3222	-0.0137	0.3348		
52	18.77	-0.07	0.1590	0.0010	0.0158	0.0063	0.0993	0.9892	-0.0136	0.3293	-0.0137	0.3329		
53	19.10	-0.08	0.1705	0.0011	0.0126	0.0065	0.0740	1.0031	-0.0134	0.3309	-0.0134	0.3298		
54	19.43	-0.05	0.1673	0.0012	0.0123	0.0072	0.0738	1.0198	-0.0133	0.3335	-0.0131	0.3270		
55	19.75	-0.07	0.1754	0.0015	0.0151	0.0086	0.0864	1.0308	-0.0136	0.3398	-0.0132	0.3296		
56	20.10	-0.11	0.1704	0.0015	0.0126	0.0088	0.0738	1.0496	-0.0127	0.3454	-0.0121	0.3291		
57	20.42	-0.10	0.1690	0.0015	0.0153	0.0089	0.0906	1.0608	-0.0128	0.3498	-0.0121	0.3297		
58	20.77	-0.09	0.1701	0.0011	0.0126	0.0065	0.0740	1.0697	-0.0127	0.3521	-0.0119	0.3292		
59	21.10	-0.08	0.1661	0.0015	0.0136	0.0090	0.0822	1.0839	-0.0123	0.3549	-0.0114	0.3274		
60	21.44	-0.10	0.1803	0.0011	0.0171	0.0064	0.0947	1.0990	-0.0123	0.3605	-0.0112	0.3280		
61	21.76	-0.10	0.1838	0.0011	0.0166	0.0063	0.0906	1.1040	-0.0123	0.3608	-0.0112	0.3268		
62	22.10	-0.07	0.1879	0.0011	0.0145	0.0061	0.0794	1.1179	-0.0123	0.3638	-0.0110	0.3254		
63	22.42	-0.07	0.1805	0.0015	0.0170	0.0086	0.0944	1.1329	-0.0123	0.3673	-0.0109	0.3242		
64	22.74	-0.09	0.1805	0.0015	0.0170	0.0086	0.0944	1.1343	-0.0127	0.3684	-0.0112	0.3248		
65	23.06	-0.08	0.1892	0.0016	0.0184	0.0087	0.0975	1.1469	-0.0128	0.3701	-0.0112	0.3227		
66	23.39	-0.07	0.1877	0.0013	0.0211	0.0069	0.1126	1.1540	-0.0131	0.3736	-0.0114	0.3238		
67	23.71	-0.08	0.1931	0.0012	0.0230	0.0062	0.1193	1.1633	-0.0131	0.3751	-0.0113	0.3225		
68	24.03	-0.11	0.2005	0.0017	0.0209	0.0085	0.1043	1.1705	-0.0134	0.3759	-0.0115	0.3212		
69	24.37	-0.09	0.1955	0.0009	0.0235	0.0049	0.1225	1.1786	-0.0134	0.3771	-0.0114	0.3200		
70	24.68	-0.11	0.1986	0.0015	0.0173	0.0078	0.0870	1.1858	-0.0140	0.3764	-0.0118	0.3174		
71	25.01	-0.10	0.1895	0.0015	0.0164	0.0082	0.0868	1.1911	-0.0141	0.3799	-0.0119	0.3189		
72	25.31	-0.10	0.2002	0.0012	0.0196	0.0060	0.0979	1.2042	-0.0146	0.3823	-0.0122	0.3174		
73	25.64	-0.09	0.2119	0.0017	0.0219	0.0080	0.1034	1.2156	-0.0142	0.3866	-0.0117	0.3180		
74	25.93	-0.11	0.2082	0.0012	0.0224	0.0060	0.1075	1.2189	-0.0145	0.3865	-0.0119	0.3171		
75	26.25	-0.10	0.1980	0.0019	0.0178	0.0098	0.0898	1.2316	-0.0144	0.3897	-0.0117	0.3164		
76	26.54	-0.08	0.2091	0.0012	0.0197	0.0057	0.0941	1.2362	-0.0147	0.3882	-0.0119	0.3140		
77	26.83	-0.12	0.1978	0.0015	0.0172	0.0078	0.0870	1.2315	-0.0156	0.3884	-0.0127	0.3154		
78	27.16	-0.10	0.2031	0.0021	0.0197	0.0106	0.0969	1.2459	-0.0153	0.3912	-0.0123	0.3140		
79	27.48	-0.09	0.2092	0.0023	0.0202	0.0112	0.0966	1.2630	-0.0157	0.3951	-0.0125	0.3129		
80	27.81	-0.08	0.2054	0.0023	0.0212	0.0114	0.1034	1.2653	-0.0155	0.3973	-0.0122	0.3140		
81	28.11	-0.10	0.2133	0.0026	0.0240	0.0124	0.1124	1.2627	-0.0162	0.3952	-0.0129	0.3130		
82	28.42	-0.10	0.2145	0.0032	0.0220	0.0149	0.1024	1.2743	-0.0164	0.3975	-0.0129	0.3120		
83	28.72	-0.11	0.2111	0.0025	0.0217	0.0121	0.1030	1.2771	-0.0167	0.3975	-0.0131	0.3113		
84	29.04	-0.09	0.2346	0.0035	0.0259	0.0151	0.1103	1.2918	-0.0161	0.4014	-0.0125	0.3108		
85	29.36	-0.11	0.2244	0.0031	0.0208	0.0138	0.0926	1.2947	-0.0173	0.4018	-0.0134	0.3104		
86	29.66	-0.10	0.2243	0.0035	0.0262	0.0156	0.1170	1.3001	-0.0172	0.4041	-0.0133	0.3108		
87	29.98	-0.09	0.2277	0.0033	0.0259	0.0145	0.1136	1.3071	-0.0171	0.4055	-0.0131	0.3103		
88	30.30	-0.07	0.2255	0.0029	0.0285	0.0131	0.1266	1.3075	-0.0176	0.4056	-0.0135	0.3102		
89	30.51	0.01	0.2217	0.0033	0.0240	0.0149	0.1081	1.2930	-0.0168	0.4025	-0.0130	0.3113		

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	50	0.92	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.79	0.01	-0.5736	0.2731	0.2518	0.0295	0.0100	0.1929	-0.4762		
2	-2.65	-0.01	-0.5391	0.2558	0.0844	0.0058	0.0140	0.1929	-0.4746		
3	-2.01	-0.03	-0.4080	0.1653	0.0441	-0.0467	0.0130	0.2015	-0.4051		
4	-1.40	0.03	-0.2677	0.0848	0.1817	-0.0164	0.0170	0.1978	-0.3167		
5	-0.83	-0.03	-0.1273	0.0592	0.0819	-0.0437	0.0140	0.2016	-0.4652		
6	-0.30	-0.02	-0.0614	0.0580	0.1567	-0.0024	0.0110	0.2077	-0.9440		
7	0.26	-0.02	0.0469	0.0253	0.1326	-0.0176	0.0160	0.2077	0.5403		
8	0.77	-0.03	0.1441	0.0293	0.0678	-0.0369	0.0120	0.2133	0.2031		
9	1.31	-0.04	0.2622	0.0229	0.0810	-0.1234	0.0190	0.2140	0.0874		
10	1.82	-0.04	0.3631	-0.0303	0.0423	-0.0232	0.0130	0.2141	-0.0836		
11	2.29	-0.02	0.4549	-0.1010	0.1576	-0.0286	0.0130	0.2146	-0.2220		
12	2.80	-0.03	0.6158	-0.1832	0.0910	-0.0574	0.0160	0.2132	-0.2975		
13	3.27	-0.03	0.7200	-0.3011	0.1042	-0.0809	0.0180	0.2125	-0.4182		
14	3.76	-0.04	0.8573	-0.4033	0.0916	-0.0582	0.0180	0.2144	-0.4704		
15	4.23	-0.04	0.9832	-0.5405	0.0974	-0.0783	0.0190	0.2157	-0.5498		
16	4.69	-0.03	1.1031	-0.7004	0.1124	-0.1063	0.0240	0.2130	-0.6320		
17	5.14	-0.03	1.2450	-0.8782	0.1109	-0.0493	0.0200	0.2130	-0.7053		
18	5.62	-0.03	1.4211	-1.0297	0.1503	-0.1094	0.0220	0.2111	-0.7246		
19	6.05	-0.03	1.5376	-1.2258	0.1413	-0.0648	0.0190	0.2078	-0.7972		
20	6.52	-0.03	1.6659	-1.4004	0.1225	-0.0211	0.0230	0.2067	-0.8406		
21	6.98	-0.06	1.8138	-1.5184	0.0526	-0.1136	0.0190	0.2054	-0.8372		
22	7.44	-0.07	1.9724	-1.7695	0.0882	-0.1515	0.0200	0.2044	-0.8971		
23	7.85	-0.07	2.0606	-1.8650	0.0401	-0.0831	0.0220	0.2036	-0.9051		
24	8.31	-0.07	2.2317	-2.1075	0.0530	-0.0682	0.0190	0.2016	-0.9444		
25	8.73	-0.07	2.3854	-2.3487	0.0473	-0.0642	0.0210	0.1942	-0.9846		
26	9.13	-0.07	2.5234	-2.5458	0.0603	-0.0104	0.0240	0.1942	-1.0089		
27	9.55	-0.06	2.6504	-2.6696	0.1624	-0.1043	0.0230	0.1886	-1.0073		
28	9.97	-0.06	2.8042	-2.9151	0.0543	-0.0240	0.0210	0.1814	-1.0395		
29	10.38	-0.06	2.9402	-3.1054	0.0975	-0.0185	0.0170	0.1776	-1.0562		
30	10.78	-0.07	3.0728	-3.2691	0.0754	-0.0855	0.0180	0.1776	-1.0639		
31	11.18	-0.07	3.2187	-3.4773	0.0123	0.0088	0.0220	0.1719	-1.0403		
32	11.57	-0.06	3.3534	-3.6718	0.0197	-0.0236	0.0170	0.1679	-1.0950		
33	11.93	-0.04	3.4856	-3.8430	0.1440	-0.0016	0.0170	0.1645	-1.1025		
34	12.31	-0.06	3.6286	-4.0622	0.0402	-0.0893	0.0190	0.1600	-1.1195		
35	12.66	-0.05	3.7630	-4.2493	0.0503	-0.0444	0.0160	0.1523	-1.1292		
36	13.04	-0.05	3.9169	-4.4218	0.0905	-0.0137	0.0190	0.1495	-1.1289		
37	13.37	-0.05	4.0201	-4.6222	0.0514	-0.0160	0.0160	0.1462	-1.1478		
38	13.74	-0.06	4.1277	-4.7849	0.0032	-0.0585	0.0100	0.1401	-1.1592		
39	14.10	-0.06	4.2341	-4.9889	-0.0339	0.0415	0.0040	0.1374	-1.1783		
40	14.46	-0.05	4.3741	-5.1309	0.0407	0.1140	-0.0100	0.1335	-1.1730		
41	14.81	-0.06	4.4814	-5.3531	0.0034	0.0202	-0.0120	0.1297	-1.1945		
42	15.15	-0.06	4.6118	-5.5966	0.0402	-0.0273	0.0030	0.1224	-1.2135		
43	15.50	-0.06	4.7375	-5.8346	-0.0085	0.0189	0.0190	0.1204	-1.2316		
44	15.84	-0.06	4.8424	-5.9754	-0.0122	-0.0039	0.0230	0.1217	-1.2340		
45	16.19	-0.07	4.9876	-6.1678	0.0809	-0.0313	0.0220	0.1192	-1.2366		
46	16.52	-0.07	5.1029	-6.3702	0.0100	0.0990	0.0310	0.1126	-1.2483		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	50	0.92	1.7	0.0	0.22	12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP			
47	16.86	-0.07	5.2664	-6.5261	-0.0081	0.1563	0.0190	0.1112	-1.2392			
48	17.17	-0.08	5.3967	-6.7595	-0.0901	0.1311	0.0200	0.1029	-1.2525			
49	17.50	-0.07	5.5248	-6.8678	-0.0340	0.1126	0.0170	0.0999	-1.2431			
50	17.81	-0.08	5.6609	-7.0773	-0.0491	0.0777	0.0130	0.0961	-1.2636			
51	18.16	-0.09	5.7800	-7.2762	-0.1435	0.1454	0.0050	0.0893	-1.2588			
52	18.48	-0.07	5.9179	-7.4312	-0.0996	0.2244	0.0100	0.0862	-1.2557			
53	18.82	-0.07	6.0121	-7.6031	-0.0353	0.1560	-0.0010	0.0765	-1.2646			
54	19.14	-0.07	6.1254	-7.7717	-0.0525	0.1755	0.0080	0.0805	-1.2688			
55	19.46	-0.07	6.2112	-7.9218	-0.0821	0.2409	-0.0120	0.0799	-1.2754			
56	19.79	-0.07	6.3720	-8.1109	-0.0609	0.3212	-0.0480	0.0776	-1.2729			
57	20.11	-0.07	6.4257	-8.2116	-0.1074	0.3393	-0.0680	0.0742	-1.2771			
58	20.46	-0.06	6.5517	-8.3755	-0.0548	0.3687	-0.0770	0.0721	-1.2784			
59	20.79	-0.08	6.6401	-8.5333	-0.1726	0.3376	-0.0760	0.0710	-1.2851			
60	21.15	-0.07	6.8182	-8.7376	-0.1145	0.3513	-0.0810	0.0630	-1.2815			
61	21.46	-0.06	6.8815	-8.8762	-0.0378	0.3359	-0.0860	0.0561	-1.2839			
62	21.78	-0.08	6.9929	-8.9751	-0.1068	0.4215	-0.0900	0.0537	-1.2835			
63	22.06	-0.07	7.0701	-9.1192	-0.0374	0.4413	-0.1000	0.0501	-1.2898			
64	22.39	-0.07	7.2157	-9.2720	-0.0298	0.4147	-0.0970	0.0436	-1.2850			
65	22.70	-0.08	7.3406	-9.3620	-0.0576	0.3816	-0.1040	0.0384	-1.2754			
66	23.03	-0.08	7.4467	-9.4745	-0.0537	0.2911	-0.1020	0.0338	-1.2723			
67	23.33	-0.10	7.5186	-9.3792	-0.1053	0.2744	-0.1330	0.0350	-1.2475			
68	23.66	-0.09	7.5870	-9.4670	-0.0922	0.3140	-0.1260	0.0315	-1.2478			
69	23.95	-0.09	7.7145	-9.5884	-0.0115	0.2381	-0.1140	0.0273	-1.2429			
70	24.28	-0.09	7.7974	-9.6965	-0.0415	0.2381	-0.1080	0.0210	-1.2436			
71	24.56	-0.08	7.9128	-9.7210	0.0118	0.2015	-0.1270	0.0233	-1.2285			
72	24.92	-0.08	8.0336	-9.8053	-0.0161	0.2675	-0.1330	0.0174	-1.2205			
73	25.18	-0.09	8.1776	-9.9079	-0.0294	0.3551	-0.1080	0.0149	-1.2116			
74	25.53	-0.11	8.3086	-9.9793	-0.1216	0.2622	-0.1140	0.0102	-1.2011			
75	25.78	-0.10	8.3532	-10.0137	-0.0646	0.2274	-0.1260	0.0047	-1.1988			
76	26.11	-0.11	8.5292	-10.0401	-0.1266	0.3272	-0.1150	0.0035	-1.1771			
77	26.39	-0.10	8.6338	-10.1215	-0.0146	0.2024	-0.1290	-0.0028	-1.1723			
78	26.68	-0.10	8.7650	-10.1862	-0.0445	0.1513	-0.1220	-0.0068	-1.1622			
79	27.02	-0.11	8.8881	-10.1957	-0.1025	0.2690	-0.1220	-0.0120	-1.1471			
80	27.33	-0.11	8.9557	-10.2433	-0.1292	0.3078	-0.1250	-0.0121	-1.1438			
81	27.62	-0.09	9.1090	-10.2059	-0.0241	0.2487	-0.1340	-0.0215	-1.1204			
82	27.93	-0.10	9.2084	-10.1061	-0.0822	0.2410	-0.1330	-0.0220	-1.0975			
83	28.22	-0.10	9.3086	-10.0854	-0.0606	0.2738	-0.1500	-0.0231	-1.0835			
84	28.53	-0.08	9.4426	-10.0030	0.0354	0.1724	-0.1530	-0.0245	-1.0594			
85	28.84	-0.11	9.4960	-10.0408	-0.0388	0.1163	-0.1490	-0.0323	-1.0574			
86	29.16	-0.09	9.6601	-9.9607	0.0080	0.2388	-0.1560	-0.0394	-1.0311			
87	29.47	-0.12	9.7043	-9.9025	-0.0263	0.2132	-0.1350	-0.0550	-1.0204			
88	29.80	-0.12	9.7591	-9.6503	-0.1146	0.0164	-0.1480	-0.0538	-0.9888			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		50	0.92	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.79	0.01	-0.1656	0.0012	0.0241	-0.0075	-0.1456	-0.0420	0.0042	-0.0370	-0.1012	0.8808
2	-2.65	-0.01	-0.1656	0.0012	0.0241	-0.0075	-0.1456	-0.0391	0.0038	-0.0359	-0.1148	1.0855
3	-2.01	-0.03	-0.2691	0.0013	0.0520	-0.0050	-0.1934	-0.0186	0.0023	-0.0253	-0.1236	1.3601
4	-1.40	0.03	-0.1673	0.0013	0.0242	-0.0078	-0.1450	-0.0046	0.0014	-0.0196	-0.3152	4.2680
5	-0.83	-0.03	-0.1640	0.0012	0.0239	-0.0076	-0.1461	0.0078	0.0009	-0.0138	0.1154	-1.7693
6	-0.30	-0.02	-0.1673	0.0013	0.0242	-0.0081	-0.1450	0.0131	0.0005	-0.0101	0.0382	-0.7737
7	0.26	-0.02	-0.1624	0.0012	0.0237	-0.0077	-0.1458	0.0216	0.0001	-0.0073	0.0069	-0.3381
8	0.77	-0.03	-0.1624	0.0012	0.0237	-0.0077	-0.1458	0.0269	0.0	-0.0038	0.0	-0.1426
9	1.31	-0.04	-0.1624	0.0012	0.0238	-0.0074	-0.1465	0.0367	-0.0004	0.0004	-0.0123	0.0117
10	1.82	-0.04	-0.1559	0.0011	0.0230	-0.0074	-0.1479	0.0450	-0.0008	0.0043	-0.0178	0.0954
11	2.29	-0.02	-0.1508	0.0011	0.0224	-0.0073	-0.1489	0.0576	-0.0015	0.0098	-0.0269	0.1700
12	2.80	-0.03	-0.1509	0.0011	0.0224	-0.0073	-0.1486	0.0744	-0.0025	0.0175	-0.0336	0.2351
13	3.27	-0.03	-0.1557	0.0011	0.0230	-0.0071	-0.1478	0.0898	-0.0028	0.0239	-0.0317	0.2664
14	3.76	-0.04	-0.1560	0.0012	0.0230	-0.0077	-0.1476	0.1069	-0.0037	0.0311	-0.0346	0.2911
15	4.23	-0.04	-0.1624	0.0012	0.0238	-0.0077	-0.1465	0.1337	-0.0056	0.0423	-0.0423	0.3168
16	4.69	-0.03	-0.2527	0.0012	0.0502	-0.0047	-0.1986	0.1474	-0.0068	0.0504	-0.0461	0.3420
17	5.14	-0.03	-0.2544	0.0012	0.0504	-0.0047	-0.1982	0.1670	-0.0074	0.0589	-0.0446	0.3530
18	5.62	-0.03	-0.1623	0.0012	0.0237	-0.0074	-0.1461	0.1853	-0.0086	0.0673	-0.0464	0.3634
19	6.05	-0.03	-0.1623	0.0012	0.0237	-0.0074	-0.1461	0.2094	-0.0092	0.0765	-0.0442	0.3652
20	6.52	-0.03	-0.1558	0.0011	0.0230	-0.0071	-0.1475	0.2323	-0.0096	0.0838	-0.0415	0.3608
21	6.98	-0.06	-0.1640	0.0012	0.0235	-0.0076	-0.1461	0.2472	-0.0097	0.0928	-0.0394	0.3753
22	7.44	-0.07	-0.1575	0.0012	0.0232	-0.0076	-0.1474	0.2742	-0.0094	0.1019	-0.0343	0.3715
23	7.85	-0.07	-0.1623	0.0012	0.0237	-0.0074	-0.1461	0.2860	-0.0093	0.1086	-0.0323	0.3769
24	8.31	-0.07	-0.1571	0.0011	0.0231	-0.0070	-0.1474	0.3130	-0.0098	0.1187	-0.0313	0.3792
25	8.73	-0.07	-0.1554	0.0010	0.0229	-0.0068	-0.1475	0.3398	-0.0101	0.1269	-0.0301	0.3779
26	9.13	-0.07	-0.1555	0.0011	0.0230	-0.0071	-0.1478	0.3616	-0.0104	0.1350	-0.0289	0.3733
27	9.55	-0.06	-0.1619	0.0012	0.0236	-0.0074	-0.1461	0.3780	-0.0108	0.1427	-0.0286	0.3774
28	9.97	-0.06	-0.2519	0.0010	0.0501	-0.0042	-0.1987	0.4022	-0.0113	0.1515	-0.0281	0.3767
29	10.38	-0.06	-0.1570	0.0011	0.0232	-0.0070	-0.1477	0.4237	-0.0121	0.1590	-0.0287	0.3752
30	10.78	-0.07	-0.2536	0.0011	0.0503	-0.0043	-0.1983	0.4464	-0.0129	0.1681	-0.0289	0.3767
31	11.18	-0.07	-0.1635	0.0012	0.0238	-0.0073	-0.1457	0.4650	-0.0131	0.1746	-0.0283	0.3756
32	11.57	-0.06	-0.1635	0.0012	0.0238	-0.0073	-0.1457	0.4880	-0.0134	0.1841	-0.0277	0.3789
33	11.93	-0.04	-0.1570	0.0011	0.0231	-0.0070	-0.1470	0.5019	-0.0134	0.1865	-0.0268	0.3756
34	12.31	-0.06	-0.1456	0.0009	0.0219	-0.0062	-0.1503	0.5225	-0.0136	0.1953	-0.0260	0.3738
35	12.66	-0.05	-0.1456	0.0009	0.0219	-0.0062	-0.1503	0.5443	-0.0133	0.2010	-0.0245	0.3692
36	13.04	-0.05	-0.1473	0.0009	0.0220	-0.0064	-0.1495	0.5642	-0.0129	0.2080	-0.0229	0.3687
37	13.37	-0.05	-0.1391	0.0007	0.0211	-0.0054	-0.1520	0.5800	-0.0127	0.2131	-0.0219	0.3673
38	13.74	-0.06	-0.1342	0.0007	0.0206	-0.0056	-0.1534	0.6018	-0.0126	0.2189	-0.0209	0.3638
39	14.10	-0.06	-0.1293	0.0006	0.0200	-0.0046	-0.1548	0.6220	-0.0122	0.2249	-0.0196	0.3615
40	14.46	-0.05	-0.0917	0.0000	0.0158	-0.0005	-0.1728	0.6394	-0.0119	0.2294	-0.0186	0.3589
41	14.81	-0.06	-0.1869	0.0	0.0428	0.0	-0.2291	0.6662	-0.0114	0.2365	-0.0171	0.3550
42	15.15	-0.06	-0.1936	0.0001	0.0436	-0.0005	-0.2252	0.6870	-0.0104	0.2427	-0.0152	0.3533
43	15.50	-0.06	-0.1000	0.0001	0.0168	-0.0015	-0.1678	0.7100	-0.0094	0.2495	-0.0132	0.3514
44	15.84	-0.06	-0.1231	0.0006	0.0194	-0.0049	-0.1574	0.7184	-0.0088	0.2530	-0.0122	0.3521
45	16.19	-0.07	-0.2201	0.0006	0.0466	-0.0027	-0.2115	0.7376	-0.0079	0.2584	-0.0107	0.3503
46	16.52	-0.07	-0.0987	0.0002	0.0166	-0.0020	-0.1683	0.7574	-0.0067	0.2642	-0.0089	0.3488

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	50	0.92	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.86	-0.07	-0.2221	0.0007	0.0468	-0.0032	-0.2107	0.7703	-0.0058	0.2681	-0.0076	0.3480
48	17.17	-0.08	-0.1892	0.0001	0.0431	-0.0005	-0.2281	0.7927	-0.0044	0.2727	-0.0056	0.3441
49	17.50	-0.07	-0.1250	0.0006	0.0195	-0.0052	-0.1564	0.8048	-0.0034	0.2750	-0.0043	0.3417
50	17.81	-0.08	-0.1828	0.0	0.0425	0.0	-0.2324	0.8225	-0.0021	0.2781	-0.0026	0.3381
51	18.16	-0.09	-0.0741	-0.0002	0.0138	0.0027	-0.1864	0.8461	-0.0014	0.2825	-0.0017	0.3339
52	18.48	-0.07	-0.1782	-0.0001	0.0419	0.0006	-0.2352	0.8588	-0.0000	0.2886	-0.0001	0.3360
53	18.82	-0.07	-0.1618	-0.0003	0.0401	0.0019	-0.2477	0.8764	0.0012	0.2922	0.0014	0.3334
54	19.14	-0.07	-0.1784	-0.0001	0.0419	0.0006	-0.2352	0.8996	0.0031	0.2985	0.0034	0.3318
55	19.46	-0.07	-0.1127	-0.0011	0.0346	0.0102	-0.3074	0.9157	0.0043	0.3025	0.0047	0.3304
56	19.79	-0.07	0.0062	-0.0015	0.0069	-0.2419	0.7848	0.9353	0.0057	0.3065	0.0061	0.3277
57	20.11	-0.07	0.0457	-0.0021	0.0004	-0.0459	0.0094	0.9518	0.0068	0.3089	0.0071	0.3245
58	20.46	-0.06	-0.0634	-0.0020	0.0292	0.0315	-0.4602	0.9654	0.0083	0.3121	0.0086	0.3233
59	20.79	-0.08	-0.0355	-0.0024	0.0260	0.0676	-0.7316	0.9788	0.0090	0.3146	0.0092	0.3214
60	21.15	-0.07	0.0573	-0.0023	-0.0009	-0.0410	-0.0158	1.0004	0.0099	0.3198	0.0099	0.3196
61	21.46	-0.06	0.0738	-0.0026	-0.0027	-0.0352	-0.0367	1.0242	0.0115	0.3239	0.0112	0.3162
62	21.78	-0.08	0.0189	-0.0033	0.0199	-0.1746	1.0528	1.0392	0.0119	0.3266	0.0114	0.3144
63	22.06	-0.07	0.1298	-0.0034	-0.0090	-0.0266	-0.0697	1.0498	0.0126	0.3303	0.0120	0.3146
64	22.39	-0.07	0.0073	-0.0031	0.0212	-0.4246	2.9086	1.0715	0.0127	0.3362	0.0118	0.3138
65	22.70	-0.08	0.0322	-0.0035	0.0184	-0.1102	0.5723	1.0911	0.0140	0.3398	0.0128	0.3114
66	23.03	-0.08	0.1071	-0.0032	-0.0064	-0.0303	-0.0599	1.0981	0.0152	0.3428	0.0139	0.3122
67	23.33	-0.10	0.0421	-0.0037	0.0174	-0.0891	0.4140	1.1189	0.0175	0.3465	0.0156	0.3097
68	23.66	-0.09	0.0257	-0.0035	0.0192	-0.1362	0.7457	1.1345	0.0175	0.3494	0.0155	0.3080
69	23.95	-0.09	-0.0007	-0.0031	0.0222	4.4992	-31.6608	1.1481	0.0185	0.3531	0.0161	0.3075
70	24.28	-0.09	0.0027	-0.0033	0.0219	-1.2220	8.1110	1.1586	0.0198	0.3543	0.0171	0.3058
71	24.56	-0.08	-0.0022	-0.0033	0.0225	1.4997	-10.2122	1.1737	0.0212	0.3580	0.0181	0.3050
72	24.92	-0.08	0.0095	-0.0035	0.0212	-0.3736	2.2200	1.1862	0.0220	0.3612	0.0186	0.3045
73	25.18	-0.09	-0.0404	-0.0027	0.0268	0.0668	-0.6643	1.1988	0.0219	0.3647	0.0183	0.3042
74	25.53	-0.11	-0.0304	-0.0029	0.0257	0.0954	-0.8444	1.2097	0.0237	0.3658	0.0196	0.3024
75	25.78	-0.10	-0.0521	-0.0025	0.0281	0.0480	-0.5401	1.2141	0.0243	0.3656	0.0200	0.3011
76	26.11	-0.11	-0.0805	-0.0020	0.0314	0.0248	-0.3898	1.2302	0.0249	0.3680	0.0202	0.2992
77	26.39	-0.10	-0.0406	-0.0026	0.0269	0.0640	-0.6619	1.2429	0.0259	0.3724	0.0209	0.2996
78	26.68	-0.10	-0.0837	-0.0021	0.0317	0.0251	-0.3789	1.2477	0.0269	0.3712	0.0216	0.2975
79	27.02	-0.11	-0.0507	-0.0024	0.0280	0.0473	-0.5524	1.2633	0.0283	0.3732	0.0224	0.2955
80	27.33	-0.11	-0.0858	-0.0018	0.0320	0.0216	-0.3731	1.2632	0.0280	0.3742	0.0222	0.2963
81	27.62	-0.09	0.0026	-0.0032	0.0221	-1.2498	8.4871	1.2709	0.0328	0.3708	0.0258	0.2918
82	27.93	-0.10	0.0751	-0.0028	-0.0028	-0.0379	-0.0370	1.2594	0.0359	0.3658	0.0285	0.2904
83	28.22	-0.10	0.0995	-0.0047	0.0112	-0.0477	0.1121	1.2445	0.0398	0.3585	0.0320	0.2881
84	28.53	-0.08	0.1764	-0.0057	0.0025	-0.0326	0.0141	1.2391	0.0402	0.3475	0.0325	0.2804
85	28.84	-0.11	0.1262	-0.0049	0.0083	-0.0392	0.0654	1.2508	0.0412	0.3554	0.0330	0.2841
86	29.16	-0.09	0.2424	-0.0052	-0.0216	-0.0217	-0.0892	1.2397	0.0396	0.3483	0.0320	0.2810
87	29.47	-0.12	0.0241	-0.0033	0.0197	-0.1369	0.8187	1.2512	0.0388	0.3526	0.0310	0.2818
88	29.80	-0.12	-0.0145	-0.0026	0.0241	0.1827	-1.6599	1.2409	0.0351	0.3495	0.0283	0.2816

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION					
6	50	0.92	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED				
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPE3	YCPE3	CNF4	CH4	C84	XCPF4	YCPF4			
1	-2.79	0.01	0.0434	0.0025	-0.0086	0.0576	-0.1990	-0.0546	0.0047	-0.0245	-0.0870	0.4486			
2	-2.65	-0.01	0.0435	0.0028	-0.0087	0.0655	-0.2001	-0.0465	0.0040	-0.0222	-0.0860	0.4773			
3	-2.01	-0.03	0.0434	0.0025	-0.0086	0.0576	-0.1990	-0.0268	0.0029	-0.0163	-0.1101	0.6093			
4	-1.40	0.03	0.0433	0.0021	-0.0087	0.0496	-0.2003	-0.0101	0.0018	-0.0098	-0.1831	0.9669			
5	-0.83	-0.03	0.0549	0.0018	-0.0092	0.0337	-0.1677	0.0	0.0015	-0.0054	0.0015	-0.0054			
6	-0.30	-0.02	0.0494	0.0013	-0.0064	0.0263	-0.1303	0.0113	-0.0004	-0.0022	-0.0398	-0.1978			
7	0.26	-0.02	0.0449	0.0010	-0.0051	0.0234	-0.1144	0.0248	-0.0009	0.0018	-0.0383	0.0711			
8	0.77	-0.03	0.0568	0.0006	-0.0065	0.0106	-0.1140	0.0373	-0.0017	0.0055	-0.0469	0.1482			
9	1.31	-0.04	0.0607	0.0001	-0.0065	0.0025	-0.1132	0.0536	-0.0021	0.0085	-0.0392	0.1578			
10	1.82	-0.04	0.0607	0.0001	-0.0065	0.0025	-0.1132	0.0618	-0.0029	0.0129	-0.0477	0.2086			
11	2.29	-0.02	0.0724	0.0002	-0.0075	0.0028	-0.1032	0.0795	-0.0037	0.0204	-0.0472	0.2565			
12	2.80	-0.03	0.0677	-0.0003	-0.0062	-0.0052	-0.0922	0.0998	-0.0050	0.0269	-0.0506	0.2701			
13	3.27	-0.03	0.0587	-0.0006	-0.0036	-0.0102	-0.0620	0.1249	-0.0068	0.0349	-0.0548	0.2796			
14	3.76	-0.04	0.0669	-0.0006	-0.0046	-0.0090	-0.0689	0.1446	-0.0077	0.0415	-0.0532	0.2869			
15	4.23	-0.04	0.0745	-0.0007	-0.0048	-0.0094	-0.0641	0.1695	-0.0096	0.0512	-0.0566	0.3019			
16	4.69	-0.03	0.0650	-0.0010	-0.0013	-0.0134	-0.0206	0.2027	-0.0111	0.0607	-0.0548	0.2997			
17	5.14	-0.03	0.0683	-0.0010	-0.0003	-0.0146	-0.0050	0.2293	-0.0119	0.0682	-0.0521	0.2975			
18	5.62	-0.03	0.0624	-0.0014	0.0034	-0.0232	0.0544	0.2544	-0.0130	0.0779	-0.0513	0.3061			
19	6.05	-0.03	0.0717	-0.0014	0.0001	-0.0202	0.0013	0.2743	-0.0135	0.0864	-0.0494	0.3150			
20	6.52	-0.03	0.0623	-0.0017	0.0034	-0.0281	0.0539	0.3036	-0.0135	0.0945	-0.0444	0.3112			
21	6.98	-0.06	0.0623	-0.0017	0.0034	-0.0281	0.0539	0.3195	-0.0138	0.0992	-0.0432	0.3104			
22	7.44	-0.07	0.0744	-0.0017	0.0020	-0.0235	0.0268	0.3467	-0.0137	0.1113	-0.0396	0.3211			
23	7.85	-0.07	0.0740	-0.0018	0.0028	-0.0250	0.0373	0.3652	-0.0142	0.1190	-0.0390	0.3258			
24	8.31	-0.07	0.0740	-0.0014	0.0028	-0.0189	0.0373	0.3933	-0.0139	0.1276	-0.0355	0.3243			
25	8.73	-0.07	0.0718	-0.0018	0.0068	-0.0258	0.0451	0.4243	-0.0144	0.1386	-0.0340	0.3266			
26	9.13	-0.07	0.0606	-0.0017	0.0065	-0.0289	0.1071	0.4441	-0.0149	0.1469	-0.0337	0.3307			
27	9.55	-0.06	0.0833	-0.0020	0.0063	-0.0246	0.0751	0.4676	-0.0152	0.1541	-0.0325	0.3296			
28	9.97	-0.06	0.0741	-0.0018	0.0095	-0.0243	0.1281	0.4952	-0.0153	0.1643	-0.0310	0.3318			
29	10.38	-0.06	0.0742	-0.0017	0.0094	-0.0229	0.1270	0.5176	-0.0155	0.1707	-0.0300	0.3297			
30	10.78	-0.07	0.0742	-0.0017	0.0094	-0.0229	0.1270	0.5387	-0.0160	0.1783	-0.0297	0.3310			
31	11.18	-0.07	0.0743	-0.0013	0.0095	-0.0182	0.1273	0.5578	-0.0158	0.1838	-0.0284	0.3295			
32	11.57	-0.06	0.0743	-0.0013	0.0095	-0.0182	0.1273	0.5794	-0.0157	0.1917	-0.0271	0.3308			
33	11.93	-0.04	0.0806	-0.0017	0.0118	-0.0211	0.1459	0.5942	-0.0157	0.1971	-0.0264	0.3317			
34	12.31	-0.06	0.0885	-0.0013	0.0116	-0.0153	0.1310	0.6232	-0.0155	0.2068	-0.0249	0.3318			
35	12.66	-0.05	0.0810	-0.0008	0.0117	-0.0099	0.1443	0.6410	-0.0154	0.2116	-0.0240	0.3301			
36	13.04	-0.05	0.0931	-0.0009	0.0102	-0.0097	0.1398	0.6597	-0.0151	0.2179	-0.0230	0.3303			
37	13.37	-0.05	0.0883	-0.0009	0.0123	-0.0102	0.1396	0.6835	-0.0153	0.2235	-0.0224	0.3271			
38	13.74	-0.06	0.0839	-0.0008	0.0136	-0.0095	0.1416	0.7022	-0.0153	0.2314	-0.0218	0.3295			
39	14.10	-0.06	0.0958	-0.0012	0.0122	-0.0125	0.1276	0.7201	-0.0146	0.2383	-0.0203	0.3310			
40	14.46	-0.05	0.0881	-0.0012	0.0124	-0.0136	0.1403	0.7442	-0.0141	0.2448	-0.0190	0.3289			
41	14.81	-0.06	0.0956	-0.0008	0.0130	-0.0089	0.1355	0.7605	-0.0130	0.2521	-0.0171	0.3315			
42	15.15	-0.06	0.0951	-0.0002	0.0146	-0.0021	0.1534	0.7886	-0.0120	0.2601	-0.0152	0.3298			
43	15.50	-0.06	0.0967	-0.0004	0.0188	-0.0041	0.1946	0.8125	-0.0109	0.2695	-0.0134	0.3317			
44	15.84	-0.06	0.1069	-0.0002	0.0139	-0.0019	0.1302	0.8245	-0.0099	0.2734	-0.0120	0.3315			
45	16.19	-0.07	0.0936	-0.0000	0.0177	-0.0005	0.1890	0.8445	-0.0092	0.2783	-0.0109	0.3295			
46	16.52	-0.07	0.1075	-0.0000	0.0132	-0.0005	0.1230	0.8677	-0.0079	0.2891	-0.0091	0.3332			

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MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
	6	50	0.92	L.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.86	-0.07	0.0953	-0.0002	0.0146	-0.0021	0.1527	0.8779	-0.0072	0.2906	-0.0083	0.3311
48	17.17	-0.08	0.1116	-0.0000	0.0127	-0.0004	0.1137	0.9036	-0.0059	0.2984	-0.0065	0.3302
49	17.50	-0.07	0.1096	0.0003	0.0175	0.0027	0.1595	0.9157	-0.0049	0.3050	-0.0053	0.3331
50	17.81	-0.08	0.1092	-0.0000	0.0175	-0.0005	0.1601	0.9348	-0.0031	0.3109	-0.0033	0.3326
51	18.16	-0.09	0.1078	0.0003	0.0131	0.0032	0.1217	0.9474	-0.0015	0.3156	-0.0016	0.3331
52	18.48	-0.07	0.1096	0.0004	0.0175	0.0036	0.1599	0.9666	-0.0012	0.3212	-0.0012	0.3323
53	18.82	-0.07	0.1203	0.0009	0.0193	0.0075	0.1603	0.9787	0.0006	0.3260	0.0006	0.3331
54	19.14	-0.07	0.1122	0.0004	0.0128	0.0036	0.1140	0.9889	0.0023	0.3283	0.0023	0.3320
55	19.46	-0.07	0.1106	0.0004	0.0160	0.0036	0.1442	1.0064	0.0033	0.3334	0.0033	0.3312
56	19.79	-0.07	0.1098	0.0004	0.0175	0.0036	0.1593	1.0168	0.0048	0.3373	0.0048	0.3317
57	20.11	-0.07	0.1165	0.0009	0.0197	0.0077	0.1693	1.0375	0.0057	0.3427	0.0055	0.3303
58	20.46	-0.06	0.1221	0.0004	0.0161	0.0033	0.1317	1.0482	0.0064	0.3449	0.0061	0.3290
59	20.79	-0.08	0.1221	0.0013	0.0168	0.0106	0.1375	1.0659	0.0072	0.3508	0.0068	0.3291
60	21.15	-0.07	0.1210	0.0014	0.0192	0.0120	0.1588	1.0840	0.0078	0.3554	0.0072	0.3279
61	21.46	-0.06	0.1212	0.0020	0.0192	0.0165	0.1583	1.0963	0.0085	0.3603	0.0078	0.3287
62	21.78	-0.08	0.1269	0.0020	0.0156	0.0158	0.1228	1.1088	0.0092	0.3647	0.0083	0.3289
63	22.06	-0.07	0.1413	0.0020	0.0177	0.0145	0.1251	1.1266	0.0097	0.3681	0.0087	0.3267
64	22.39	-0.07	0.1337	0.0021	0.0178	0.0161	0.1335	1.1327	0.0108	0.3713	0.0096	0.3278
65	22.70	-0.08	0.1298	0.0031	0.0190	0.0243	0.1468	1.1451	0.0119	0.3753	0.0104	0.3277
66	23.03	-0.08	0.1163	0.0032	0.0228	0.0279	0.1465	1.1557	0.0122	0.3777	0.0106	0.3268
67	23.33	-0.10	0.1442	0.0036	0.0211	0.0253	0.1467	1.0945	0.0252	0.3607	0.0230	0.3296
68	23.66	-0.09	0.1286	0.0033	0.0214	0.0257	0.1668	1.1096	0.0256	0.3644	0.0231	0.3284
69	23.95	-0.09	0.1329	0.0032	0.0210	0.0241	0.1579	1.1181	0.0253	0.3694	0.0226	0.3304
70	24.28	-0.09	0.1404	0.0036	0.0217	0.0260	0.1544	1.1433	0.0241	0.3756	0.0211	0.3285
71	24.56	-0.08	0.1432	0.0039	0.0244	0.0272	0.1705	1.1429	0.0258	0.3748	0.0226	0.3280
72	24.92	-0.08	0.1449	0.0043	0.0220	0.0300	0.1517	1.1608	0.0267	0.3777	0.0230	0.3254
73	25.18	-0.09	0.1353	0.0038	0.0179	0.0285	0.1322	1.1704	0.0277	0.3828	0.0237	0.3271
74	25.53	-0.11	0.1423	0.0043	0.0201	0.0306	0.1414	1.1803	0.0278	0.3861	0.0235	0.3271
75	25.78	-0.10	0.1557	0.0040	0.0235	0.0260	0.1534	1.1882	0.0289	0.3875	0.0244	0.3261
76	26.11	-0.11	0.1340	0.0040	0.0210	0.0298	0.1571	1.2008	0.0294	0.3905	0.0245	0.3252
77	26.39	-0.10	0.1498	0.0040	0.0208	0.0267	0.1390	1.2076	0.0293	0.3917	0.0243	0.3244
78	26.68	-0.10	0.1499	0.0043	0.0208	0.0240	0.1391	1.2138	0.0308	0.3938	0.0254	0.3244
79	27.02	-0.11	0.1501	0.0043	0.0208	0.0290	0.1387	1.2107	0.0314	0.3931	0.0259	0.3247
80	27.33	-0.11	0.1578	0.0039	0.0208	0.0250	0.1317	1.2195	0.0323	0.3930	0.0265	0.3223
81	27.62	-0.09	0.1613	0.0051	0.0226	0.0316	0.1404	1.2268	0.0320	0.3954	0.0261	0.3223
82	27.93	-0.10	0.1584	0.0048	0.0267	0.0306	0.1306	1.2325	0.0313	0.3967	0.0254	0.3219
83	28.22	-0.10	0.1556	0.0052	0.0263	0.0334	0.1693	1.2388	0.0309	0.3975	0.0250	0.3209
84	28.53	-0.08	0.1686	0.0061	0.0250	0.0365	0.1482	1.2453	0.0295	0.4002	0.0237	0.3214
85	28.84	-0.11	0.1561	0.0057	0.0264	0.0365	0.1692	1.2468	0.0303	0.3978	0.0243	0.3191
86	29.16	-0.09	0.1730	0.0064	0.0244	0.0370	0.1413	1.2540	0.0304	0.3981	0.0243	0.3175
87	29.47	-0.12	0.1766	0.0063	0.0256	0.0357	0.1452	1.2339	0.0292	0.3835	0.0237	0.3108
88	29.80	-0.12	0.1761	0.0056	0.0265	0.0318	0.1504	1.2052	0.0251	0.3678	0.0209	0.3052

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	51	0.97	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.80	-0.05	-0.5902	0.3274	0.1435	-0.1729	0.0240	0.2819	-0.5547		
2	-2.44	-0.05	-0.4790	0.2547	0.1015	-0.0401	0.0180	0.2847	-0.5317		
3	-1.92	-0.04	-0.3457	0.1820	0.1421	-0.0709	0.0170	0.2877	-0.5264		
4	-1.28	-0.06	-0.2666	0.1262	0.1156	-0.0388	0.0200	0.2885	-0.4735		
5	-0.73	-0.06	-0.1413	0.0838	0.1586	-0.0880	0.0220	0.2958	-0.5432		
6	-0.18	-0.06	-0.0587	0.0462	0.1266	-0.0172	0.0170	0.2978	-0.7867		
7	0.36	-0.07	0.0890	0.0344	0.0554	-0.0246	0.0160	0.2987	0.3865		
8	0.91	-0.06	0.2053	0.0046	0.0965	0.0289	0.0160	0.2976	0.0223		
9	1.40	-0.07	0.3126	-0.0636	0.0898	-0.0467	0.0200	0.2984	-0.2036		
10	1.95	-0.07	0.4426	-0.1178	-0.0052	-0.0397	0.0710	0.2968	-0.2660		
11	2.42	-0.04	0.5414	-0.2051	0.2350	-0.1620	0.0170	0.2975	-0.3788		
12	2.89	-0.03	0.6232	-0.2796	0.1024	-0.1563	0.0230	0.3025	-0.4486		
13	3.38	-0.05	0.7779	-0.4141	0.1776	-0.1196	0.0220	0.2990	-0.5324		
14	3.84	-0.06	0.8909	-0.5133	0.1146	-0.0797	0.0240	0.2936	-0.5762		
15	4.32	-0.06	1.0380	-0.6832	0.2683	-0.1956	0.0240	0.2970	-0.6583		
16	4.76	-0.05	1.1496	-0.7806	0.1544	-0.0482	0.0260	0.2965	-0.6790		
17	5.25	-0.05	1.2551	-0.9383	0.1053	-0.1514	0.0290	0.2949	-0.7476		
18	5.71	-0.07	1.4337	-1.1173	0.1041	-0.1017	0.0230	0.2929	-0.7793		
19	6.18	-0.08	1.5977	-1.2949	-0.1081	0.0783	0.0220	0.2930	-0.8105		
20	6.62	-0.04	1.6935	-1.4200	0.2050	-0.1430	0.0200	0.2886	-0.8385		
21	7.09	-0.08	1.8587	-1.5753	0.1542	-0.2288	0.0230	0.2880	-0.8475		
22	7.52	-0.07	1.9492	-1.7711	0.1170	-0.1648	0.0230	0.2889	-0.9086		
23	7.96	-0.02	2.1077	-1.9939	0.0148	-0.0057	0.0250	0.2794	-0.9460		
24	8.41	0.01	2.2331	-2.1425	0.2685	-0.2219	0.0260	0.2743	-0.9594		
25	8.83	-0.07	2.4154	-2.3757	0.0780	-0.1232	0.0200	0.2715	-0.9636		
26	9.25	-0.10	2.5071	-2.4690	0.0781	-0.0023	0.0280	0.2722	-0.9848		
27	9.65	-0.10	2.6538	-2.6694	0.0782	-0.0775	0.0220	0.2651	-1.0059		
28	10.09	-0.08	2.8287	-2.8574	0.0920	-0.0268	0.0240	0.2603	-1.0101		
29	10.47	-0.07	2.9201	-3.0243	0.0646	-0.1424	0.0220	0.2501	-1.0357		
30	10.90	-0.08	3.0992	-3.2190	0.1057	-0.0260	0.0240	0.2445	-1.0387		
31	11.31	-0.01	3.2635	-3.3760	0.1842	-0.0445	0.0260	0.2444	-1.0345		
32	11.66	-0.08	3.3394	-3.5303	0.0581	0.0137	0.0270	0.2389	-1.0572		
33	12.05	-0.03	3.5154	-3.7318	0.0787	0.0328	0.0250	0.2382	-1.0615		
34	12.41	-0.07	3.6300	-3.9182	0.1178	0.0121	0.0300	0.2381	-1.0794		
35	12.79	-0.07	3.7830	-4.1194	-0.0132	-0.0485	0.0280	0.2290	-1.0889		
36	13.13	-0.06	3.9223	-4.3074	0.1060	-0.0464	0.0260	0.2250	-1.0982		
37	13.51	-0.08	4.0753	-4.4445	-0.0130	-0.1258	0.0310	0.2243	-1.0906		
38	13.85	-0.06	4.1968	-4.6306	0.1064	-0.0450	0.0270	0.2262	-1.1034		
39	14.24	-0.06	4.3321	-4.8291	0.0943	0.0200	0.0250	0.2222	-1.1147		
40	14.57	-0.09	4.4632	-4.9897	-0.0315	0.0341	0.0280	0.2177	-1.1180		
41	14.95	-0.04	4.6769	-5.2468	0.1575	-0.0895	0.0260	0.2054	-1.1219		
42	15.30	-0.07	4.6870	-5.3639	0.0108	0.0189	0.0320	0.2050	-1.1444		
43	15.64	-0.07	4.8712	-5.5758	0.0229	0.0789	0.0310	0.2038	-1.1447		
44	15.99	-0.08	5.0220	-5.8210	0.0961	0.0255	0.0260	0.1947	-1.1591		
45	16.30	-0.06	5.1604	-6.0128	0.0578	-0.0499	0.0200	0.1886	-1.1652		
46	16.66	-0.07	5.3243	-6.2052	0.0419	-0.0217	0.0220	0.1790	-1.1654		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION	
6	51	0.97	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLM	LLL	CAF	XCP		
47	17.00	-0.11	5.4178	-6.3711	-0.1196	0.0024	0.0200	0.1763	-1.1760		
48	17.34	-0.13	5.6008	-6.6272	-0.0005	0.0667	0.0150	0.1759	-1.1833		
49	17.64	-0.07	5.7592	-6.8041	0.0575	-0.0035	0.0180	0.1732	-1.1814		
50	17.96	-0.08	5.8892	-7.0311	0.0354	0.1714	0.0070	0.1637	-1.1939		
51	18.32	-0.08	5.9902	-7.1825	0.0167	0.1516	0.0110	0.1560	-1.1990		
52	18.66	-0.10	6.0876	-7.3018	-0.1340	0.1616	-0.0130	0.1518	-1.1995		
53	18.95	-0.05	6.1901	-7.5353	0.0646	0.1995	-0.0140	0.1401	-1.2173		
54	19.30	-0.09	6.2985	-7.6270	-0.0423	0.1552	-0.0170	0.1376	-1.2109		
55	19.62	-0.08	6.3791	-7.7398	0.0156	0.1831	-0.0180	0.1298	-1.2133		
56	19.97	-0.10	6.5281	-7.9526	-0.1357	0.2479	-0.0150	0.1277	-1.2182		
57	20.30	-0.07	6.7049	-8.1471	0.0325	0.0175	0.0100	0.1134	-1.2151		
58	20.61	-0.10	6.7080	-8.1504	0.0019	0.1623	0.0100	0.1067	-1.2150		
59	20.97	-0.10	6.8956	-8.3440	-0.0761	0.1125	0.0010	0.1006	-1.2100		
60	21.30	-0.07	7.0469	-8.4948	0.0231	0.0796	-0.0070	0.0973	-1.2055		
61	21.64	-0.08	7.1870	-8.5799	-0.0190	0.1696	-0.0170	0.0948	-1.1938		
62	21.98	-0.07	7.2955	-8.6990	0.0598	0.2472	-0.0210	0.0914	-1.1924		
63	22.25	-0.09	7.3751	-8.7994	-0.0512	0.1677	-0.0240	0.0845	-1.1931		
64	22.61	-0.07	7.5395	-8.9165	-0.0199	0.3598	-0.0380	0.0758	-1.1826		
65	22.90	-0.09	7.6364	-8.9202	0.0318	0.3564	-0.0410	0.0761	-1.1681		
66	23.23	-0.07	7.7286	-9.0683	-0.0518	0.2225	-0.0440	0.0654	-1.1733		
67	23.52	-0.08	7.9041	-9.1899	-0.0257	0.4039	-0.0540	0.0577	-1.1627		
68	23.89	-0.10	7.9790	-9.1998	-0.0767	0.4323	-0.0480	0.0530	-1.1530		
69	24.14	-0.06	8.1482	-9.3468	-0.0217	0.2973	-0.0500	0.0511	-1.1471		
70	24.54	-0.08	8.3217	-9.3607	-0.0039	0.3554	-0.0480	0.0524	-1.1249		
71	24.81	-0.10	8.3352	-9.3886	-0.0448	0.2817	-0.0630	0.0454	-1.1264		
72	25.13	-0.12	8.5176	-9.3840	-0.2498	0.5816	-0.0580	0.0484	-1.1017		
73	25.45	-0.09	8.5634	-9.5101	-0.0902	0.3932	-0.0820	0.0399	-1.1105		
74	25.71	-0.11	8.6411	-9.5548	-0.0780	0.3812	-0.0880	0.0372	-1.1057		
75	26.08	-0.11	8.8598	-9.5961	-0.1012	0.4416	-0.0960	0.0177	-1.0831		
76	26.30	-0.06	8.9092	-9.6603	0.0797	0.3424	-0.1130	0.0269	-1.0843		
77	26.65	-0.11	9.0511	-9.7229	-0.0439	0.3164	-0.1150	0.0128	-1.0742		
78	26.93	-0.10	9.2201	-9.5756	-0.0235	0.2719	-0.1280	0.0153	-1.0386		
79	27.29	-0.10	9.2933	-9.4341	-0.1363	0.5058	-0.1460	0.0216	-1.0151		
80	27.57	-0.09	9.4388	-9.4948	-0.1033	0.4536	-0.1270	0.0138	-1.0059		
81	27.92	-0.10	9.5332	-9.6379	-0.1257	0.4279	-0.1290	0.0024	-1.0110		
82	28.21	-0.09	9.5850	-9.5176	-0.0455	0.3537	-0.1440	-0.0058	-0.9930		
83	28.53	-0.09	9.9505	-9.5123	0.0153	0.1746	-0.1610	-0.0108	-0.9560		
84	28.81	-0.12	9.9178	-9.6035	0.0199	0.1361	-0.1600	-0.0162	-0.9683		
85	29.14	-0.08	10.0651	-9.5207	0.2549	-0.0499	-0.1650	-0.0237	-0.9459		
86	29.46	-0.10	10.1376	-9.4142	-0.0905	0.3227	-0.1680	-0.0303	-0.9286		
87	29.78	-0.09	10.2546	-9.4000	0.0139	0.2175	-0.1660	-0.0394	-0.9167		
88	30.06	-0.12	10.3183	-9.3092	0.0264	-0.1279	-0.1470	-0.0443	-0.9022		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	51	0.97	1.7	0.0	0.22M2F12.16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.30	-0.05	-0.2906	0.0017	0.0526	-0.0060	-0.1811	-0.0453	0.0059	-0.0416	-0.1313	0.9182
2	-2.44	-0.05	-0.2910	0.0017	0.0527	-0.0060	-0.1810	-0.0299	0.0047	-0.0352	-0.1572	1.1760
3	-1.92	-0.04	-0.2775	0.0016	0.0511	-0.0058	-0.1841	-0.0158	0.0030	-0.0287	-0.1898	1.8142
4	-1.28	-0.06	-0.2701	0.0015	0.0503	-0.0056	-0.1862	-0.0035	0.0017	-0.0213	-0.4856	6.0761
5	-0.73	-0.06	-0.2850	0.0017	0.0520	-0.0060	-0.1824	0.0090	0.0007	-0.0146	0.0778	-1.6223
6	-0.18	-0.06	-0.2672	0.0015	0.0500	-0.0056	-0.1870	0.0139	0.0001	-0.0113	0.0108	-0.8107
7	0.36	-0.07	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.0270	-0.0000	-0.0076	-0.0019	-0.2816
8	0.91	-0.06	-0.2702	0.0015	0.0504	-0.0056	-0.1864	0.0329	-0.0007	-0.0024	-0.0213	-0.0741
9	1.40	-0.07	-0.2687	0.0015	0.0502	-0.0056	-0.1867	0.0472	-0.0014	0.0028	-0.0297	0.0599
10	1.95	-0.07	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.0588	-0.0023	0.0081	-0.0400	0.1376
11	2.42	-0.04	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.0713	-0.0034	0.0155	-0.0484	0.2168
12	2.89	-0.03	-0.2687	0.0015	0.0502	-0.0056	-0.1867	0.0802	-0.0044	0.0203	-0.0555	0.2534
13	3.38	-0.05	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.1023	-0.0057	0.0290	-0.0562	0.2834
14	3.84	-0.06	-0.2702	0.0016	0.0503	-0.0059	-0.1860	0.1181	-0.0067	0.0340	-0.0571	0.2883
15	4.32	-0.06	-0.2760	0.0016	0.0510	-0.0058	-0.1847	0.1425	-0.0081	0.0450	-0.0572	0.3157
16	4.76	-0.05	-0.2911	0.0018	0.0527	-0.0064	-0.1809	0.1617	-0.0089	0.0537	-0.0550	0.3320
17	5.25	-0.05	-0.2760	0.0016	0.0510	-0.0058	-0.1847	0.1802	-0.0096	0.0594	-0.0535	0.3299
18	5.71	-0.07	-0.2776	0.0017	0.0512	-0.0061	-0.1843	0.2030	-0.0108	0.0715	-0.0534	0.3524
19	6.18	-0.08	-0.2760	0.0016	0.0510	-0.0058	-0.1847	0.2139	-0.0116	0.0797	-0.0542	0.3725
20	6.62	-0.04	-0.2911	0.0019	0.0527	-0.0065	-0.1809	0.2398	-0.0117	0.0896	-0.0488	0.3737
21	7.09	-0.08	-0.2970	0.0019	0.0533	-0.0064	-0.1794	0.2621	-0.0119	0.0970	-0.0456	0.3702
22	7.52	-0.07	-0.2850	0.0017	0.0520	-0.0060	-0.1824	0.2827	-0.0126	0.1055	-0.0447	0.3732
23	7.96	-0.02	-0.2650	0.0017	0.0520	-0.0060	-0.1824	0.2991	-0.0128	0.1143	-0.0429	0.3820
24	8.41	0.01	-0.2851	0.0017	0.0520	-0.0061	-0.1822	0.3172	-0.0127	0.1214	-0.0402	0.3827
25	8.83	-0.07	-0.2821	0.0017	0.0517	-0.0060	-0.1831	0.3473	-0.0132	0.1318	-0.0380	0.3796
26	9.25	-0.10	-0.2651	0.0018	0.0520	-0.0063	-0.1822	0.3653	-0.0134	0.1397	-0.0368	0.3825
27	9.65	-0.10	-0.2851	0.0018	0.0520	-0.0063	-0.1822	0.3821	-0.0137	0.1469	-0.0360	0.3845
28	10.09	-0.08	-0.2850	0.0017	0.0520	-0.0060	-0.1824	0.3991	-0.0141	0.1532	-0.0353	0.3838
29	10.47	-0.07	-0.2672	0.0015	0.0500	-0.0056	-0.1870	0.4241	-0.0147	0.1618	-0.0348	0.3815
30	10.90	-0.08	-0.2702	0.0015	0.0504	-0.0056	-0.1864	0.4384	-0.0147	0.1670	-0.0336	0.3809
31	11.31	-0.01	-0.2612	0.0014	0.0493	-0.0054	-0.1886	0.4556	-0.0152	0.1724	-0.0333	0.3784
32	11.66	-0.08	-0.2522	0.0012	0.0483	-0.0050	-0.1914	0.4780	-0.0152	0.1798	-0.0318	0.3761
33	12.05	-0.05	-0.2612	0.0014	0.0494	-0.0054	-0.1890	0.4932	-0.0153	0.1877	-0.0310	0.3807
34	12.41	-0.07	-0.2523	0.0013	0.0483	-0.0052	-0.1916	0.5092	-0.0156	0.1934	-0.0306	0.3797
35	12.79	-0.07	-0.2523	0.0013	0.0483	-0.0052	-0.1916	0.5278	-0.0155	0.1987	-0.0294	0.3764
36	13.13	-0.06	-0.2465	0.0012	0.0477	-0.0049	-0.1934	0.5465	-0.0156	0.2044	-0.0285	0.3740
37	13.51	-0.08	-0.2480	0.0012	0.0475	-0.0048	-0.1930	0.5616	-0.0156	0.2077	-0.0278	0.3699
38	13.85	-0.06	-0.2406	0.0011	0.0470	-0.0046	-0.1955	0.5843	-0.0156	0.2152	-0.0271	0.3683
39	14.24	-0.06	-0.2267	0.0009	0.0455	-0.0040	-0.2005	0.6046	-0.0156	0.2199	-0.0258	0.3636
40	14.57	-0.09	-0.2461	0.0011	0.0476	-0.0047	-0.1934	0.6149	-0.0159	0.2250	-0.0258	0.3659
41	14.95	-0.04	-0.2371	0.0010	0.0466	-0.0044	-0.1965	0.6410	-0.0163	0.2343	-0.0254	0.3655
42	15.30	-0.07	-0.2226	0.0009	0.0450	-0.0040	-0.2023	0.6462	-0.0162	0.2360	-0.0251	0.3652
43	15.64	-0.07	-0.2180	0.0008	0.0445	-0.0037	-0.2039	0.6764	-0.0159	0.2442	-0.0236	0.3610
44	15.99	-0.08	-0.2224	0.0008	0.0450	-0.0038	-0.2023	0.6979	-0.0156	0.2491	-0.0224	0.3570
45	16.30	-0.06	-0.2070	0.0006	0.0432	-0.0031	-0.2088	0.7145	-0.0150	0.2566	-0.0211	0.3591
46	16.66	-0.07	-0.2072	0.0006	0.0433	-0.0031	-0.2088	0.7369	-0.0150	0.2602	-0.0203	0.3532

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	51	0.97	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCFF1	YCFF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	17.00	-0.11	-0.1922	0.0004	0.0415	-0.0021	-0.2162	0.7557	-0.0148	0.2663	-0.0196	0.3524
48	17.34	-0.13	-0.2011	0.0005	0.0426	-0.0027	-0.2118	0.7814	-0.0139	0.2741	-0.0178	0.3507
49	17.64	-0.07	-0.1953	0.0004	0.0419	-0.0020	-0.2147	0.8064	-0.0129	0.2816	-0.0160	0.3492
50	17.96	-0.08	-0.1816	0.0002	0.0404	-0.0014	-0.2224	0.8263	-0.0124	0.2871	-0.0150	0.3475
51	18.32	-0.08	-0.1711	0.0	0.0392	0.0	-0.2290	0.8431	-0.0109	0.2883	-0.0130	0.3420
52	18.66	-0.10	-0.1534	-0.0001	0.0372	0.0010	-0.2424	0.8578	-0.0106	0.2957	-0.0124	0.3448
53	18.95	-0.05	-0.1431	-0.0003	0.0361	0.0021	-0.2524	0.8716	-0.0095	0.2997	-0.0110	0.3439
54	19.30	-0.09	-0.1175	-0.0007	0.0331	0.0064	-0.2821	0.8943	-0.0087	0.3044	-0.0098	0.3404
55	19.62	-0.08	-0.1220	-0.0005	0.0336	0.0045	-0.2758	0.9046	-0.0079	0.3059	-0.0088	0.3382
56	19.97	-0.10	-0.1027	-0.0009	0.0316	0.0088	-0.3075	0.9285	-0.0072	0.3120	-0.0078	0.3360
57	20.30	-0.07	-0.1267	-0.0005	0.0343	0.0043	-0.2706	0.9513	-0.0056	0.3173	-0.0059	0.3314
58	20.61	-0.10	-0.1209	-0.0006	0.0336	0.0050	-0.2780	0.9677	-0.0043	0.3204	-0.0044	0.3310
59	20.97	-0.10	-0.1119	-0.0008	0.0326	0.0071	-0.2914	0.9862	-0.0037	0.3236	-0.0038	0.3281
60	21.30	-0.07	-0.1059	-0.0009	0.0320	0.0085	-0.3023	1.0011	-0.0033	0.3270	-0.0033	0.3266
61	21.64	-0.08	-0.1091	-0.0008	0.0323	0.0078	-0.2965	1.0109	-0.0021	0.3283	-0.0021	0.3247
62	21.98	-0.07	-0.0910	-0.0012	0.0304	0.0137	-0.3338	1.0271	-0.0025	0.3331	-0.0024	0.3243
63	22.25	-0.09	-0.0500	-0.0017	0.0266	0.0293	-0.4582	1.0379	-0.0003	0.3363	-0.0003	0.3241
64	22.61	-0.07	-0.0369	-0.0021	0.0242	0.0569	-0.6559	1.0541	0.0011	0.3395	0.0010	0.3221
65	22.90	-0.09	-0.0368	-0.0022	0.0242	0.0598	-0.6586	1.0677	0.0004	0.3416	0.0004	0.3199
66	23.23	-0.07	-0.0519	-0.0019	0.0259	0.0366	-0.4492	1.0875	0.0028	0.3451	0.0026	0.3173
67	23.52	-0.08	-0.0427	-0.0022	0.0250	0.0527	-0.5848	1.1028	0.0033	0.3492	0.0030	0.3166
68	23.89	-0.10	-0.0368	-0.0022	0.0243	0.0611	-0.6614	1.1066	0.0037	0.3513	0.0033	0.3175
69	24.14	-0.06	-0.0367	-0.0023	0.0243	0.0640	-0.6613	1.1204	0.0058	0.3535	0.0052	0.3155
70	24.54	-0.08	-0.0382	-0.0023	0.0245	0.0602	-0.6406	1.1358	0.0054	0.3561	0.0048	0.3153
71	24.81	-0.10	-0.0367	-0.0023	0.0243	0.0640	-0.6613	1.1427	0.0073	0.3575	0.0064	0.3128
72	25.13	-0.12	-0.0081	-0.0028	0.0211	0.0318	-2.6051	1.1547	0.0090	0.3591	0.0078	0.3110
73	25.45	-0.09	0.0025	-0.0030	0.0199	-1.2198	7.9732	1.1631	0.0101	0.3593	0.0087	0.3089
74	25.71	-0.11	0.0235	-0.0032	0.0175	-0.1383	0.7460	1.1781	0.0117	0.3644	0.0100	0.3093
75	26.08	-0.11	0.0132	-0.0033	0.0188	-0.2537	1.4241	1.1798	0.0112	0.3639	0.0095	0.3085
76	26.30	-0.06	0.0236	-0.0033	0.0177	-0.1419	0.7485	1.1934	0.0136	0.3670	0.0114	0.3075
77	26.65	-0.11	0.0615	-0.0039	0.0134	-0.0634	0.2178	1.2142	0.0163	0.3697	0.0134	0.3045
78	26.93	-0.10	0.0828	-0.0043	0.0110	-0.0519	0.1327	1.2245	0.0184	0.3700	0.0151	0.3022
79	27.29	-0.10	0.0392	-0.0039	0.0160	-0.1007	0.4072	1.2206	0.0155	0.3707	0.0127	0.3037
80	27.57	-0.09	0.0483	-0.0040	0.0145	-0.0838	0.3084	1.2358	0.0179	0.3735	0.0145	0.3022
81	27.92	-0.10	0.0738	-0.0042	0.0121	-0.0569	0.1638	1.2479	0.0204	0.3741	0.0164	0.2998
82	28.21	-0.09	0.0149	-0.0034	0.0187	-0.2315	1.2527	1.2519	0.0198	0.3752	0.0158	0.2998
83	28.53	-0.09	0.1147	-0.0047	0.0074	-0.0410	0.0647	1.2766	0.0253	0.3761	0.0198	0.2946
84	28.81	-0.12	0.0602	-0.0039	0.0136	-0.0648	0.2252	1.2732	0.0228	0.3792	0.0179	0.2979
85	29.14	-0.08	0.1904	-0.0054	-0.0012	-0.0264	-0.0061	1.2559	0.0313	0.3640	0.0250	0.2898
86	29.46	-0.10	0.0906	-0.0043	0.0102	-0.0480	0.1125	1.2835	0.0252	0.3809	0.0196	0.2968
87	29.78	-0.09	0.1055	-0.0041	0.0085	-0.0393	0.0801	1.2706	0.0298	0.3682	0.0235	0.2898
88	30.06	-0.12	0.1908	-0.0052	-0.0011	-0.0272	-0.0059	1.2490	0.0315	0.3562	0.0252	0.2852

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	51	0.97	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.80	-0.05	0.0712	0.0026	-0.0082	0.0365	-0.1148	-0.0511	0.0060	-0.0313	-0.1174	0.6131
2	-2.44	-0.05	0.0713	0.0026	-0.0081	0.0365	-0.1142	-0.0359	0.0052	-0.0276	-0.1462	0.7678
3	-1.92	-0.04	0.0675	0.0023	-0.0077	0.0341	-0.1142	-0.0114	0.0033	-0.0200	-0.2894	1.7543
4	-1.28	-0.06	0.0675	0.0022	-0.0078	0.0326	-0.1157	0.0056	0.0020	-0.0129	0.3571	-2.3096
5	-0.73	-0.06	0.0547	0.0017	-0.0036	0.0311	-0.0053	0.0172	0.0010	-0.0091	0.0581	-0.5273
6	-0.18	-0.06	0.0619	0.0013	-0.0044	0.0210	-0.0707	0.0302	0.0	-0.0044	0.0	-0.1469
7	0.36	-0.07	0.0619	0.0012	-0.0044	0.0194	-0.0707	0.0461	-0.0009	-0.0019	-0.0195	-0.0421
8	0.91	-0.06	0.0728	0.0007	-0.0056	0.0096	-0.0775	0.0565	-0.0020	0.0036	-0.0354	0.0642
9	1.40	-0.07	0.0687	0.0006	-0.0044	0.0087	-0.0642	0.0751	-0.0032	0.0096	-0.0433	0.1282
10	1.95	-0.07	0.0629	0.0002	-0.0003	0.0032	-0.0054	0.0929	-0.0048	0.0162	-0.0522	0.1739
11	2.42	-0.04	0.0665	-0.0002	-0.0007	-0.0030	-0.0111	0.1102	-0.0061	0.0220	-0.0553	0.1998
12	2.89	-0.03	0.0698	-0.0003	-0.0004	-0.0043	-0.0063	0.1333	-0.0075	0.0263	-0.0563	0.1974
13	3.38	-0.05	0.0574	-0.0006	0.0030	-0.0105	0.0527	0.1546	-0.0092	0.0364	-0.0595	0.2355
14	3.84	-0.06	0.0721	-0.0009	0.0014	-0.0125	0.0198	0.1728	-0.0132	0.0434	-0.0593	0.2510
15	4.32	-0.06	0.0680	-0.0009	0.0026	-0.0132	0.0376	0.2030	-0.0114	0.0515	-0.0564	0.2539
16	4.76	-0.05	0.0679	-0.0012	0.0025	-0.0177	0.0372	0.2197	-0.0123	0.0560	-0.0560	0.2549
17	5.25	-0.05	0.0697	-0.0011	0.0058	-0.0165	0.0836	0.2514	-0.0130	0.0663	-0.0517	0.2636
18	5.71	-0.07	0.0697	-0.0011	0.0058	-0.0165	0.0836	0.2752	-0.0137	0.0754	-0.0498	0.2740
19	6.18	-0.08	0.0699	-0.0008	0.0057	-0.0122	0.0814	0.2961	-0.0142	0.0832	-0.0479	0.2809
20	6.62	-0.04	0.0699	-0.0008	0.0057	-0.0122	0.0814	0.3135	-0.0149	0.0902	-0.0475	0.2876
21	7.09	-0.08	0.0697	-0.0011	0.0058	-0.0165	0.0836	0.3313	-0.0151	0.0989	-0.0457	0.2985
22	7.52	-0.07	0.0684	-0.0008	0.0086	-0.0124	0.1256	0.3631	-0.0152	0.1088	-0.0418	0.2996
23	7.96	-0.02	0.0699	-0.0008	0.0057	-0.0122	0.0814	0.3838	-0.0154	0.1157	-0.0402	0.3014
24	8.41	0.01	0.0742	-0.0011	0.0106	-0.0155	0.1432	0.4058	-0.0153	0.1271	-0.0378	0.3133
25	8.83	-0.07	0.0743	-0.0008	0.0107	-0.0114	0.1434	0.4320	-0.0153	0.1370	-0.0354	0.3170
26	9.25	-0.10	0.0753	-0.0011	0.0085	-0.0153	0.1128	0.4521	-0.0158	0.1418	-0.0350	0.3135
27	9.65	-0.10	0.0771	-0.0012	0.0117	-0.0162	0.1516	0.4745	-0.0158	0.1508	-0.0334	0.3178
28	10.09	-0.08	0.0741	-0.0012	0.0107	-0.0169	0.1443	0.4962	-0.0160	0.1574	-0.0322	0.3173
29	10.47	-0.07	0.0669	-0.0007	0.0115	-0.0112	0.1718	0.5199	-0.0158	0.1656	-0.0305	0.3186
30	10.90	-0.08	0.0669	-0.0008	0.0115	-0.0127	0.1718	0.5363	-0.0160	0.1723	-0.0299	0.3213
31	11.31	-0.01	0.0771	-0.0012	0.0117	-0.0162	0.1516	0.5592	-0.0163	0.1806	-0.0292	0.3230
32	11.66	-0.08	0.0741	-0.0012	0.0107	-0.0169	0.1443	0.5799	-0.0168	0.1882	-0.0290	0.3246
33	12.05	-0.03	0.0700	-0.0012	0.0119	-0.0179	0.1704	0.6029	-0.0170	0.1940	-0.0282	0.3218
34	12.41	-0.07	0.0727	-0.0012	0.0136	-0.0165	0.1874	0.6259	-0.0172	0.2019	-0.0275	0.3225
35	12.79	-0.07	0.0768	-0.0011	0.0124	-0.0143	0.1613	0.6416	-0.0168	0.2072	-0.0262	0.3229
36	13.13	-0.06	0.0793	-0.0012	0.0142	-0.0151	0.1794	0.6659	-0.0169	0.2143	-0.0254	0.3218
37	13.51	-0.08	0.0815	-0.0015	0.0168	-0.0184	0.2056	0.6833	-0.0174	0.2193	-0.0255	0.3209
38	13.85	-0.06	0.0915	-0.0014	0.0177	-0.0158	0.1933	0.7108	-0.0173	0.2289	-0.0244	0.3221
39	14.24	-0.06	0.0909	-0.0015	0.0184	-0.0170	0.2023	0.7323	-0.0174	0.2342	-0.0238	0.3198
40	14.57	-0.09	0.0933	-0.0021	0.0201	-0.0230	0.2153	0.7468	-0.0174	0.2414	-0.0234	0.3233
41	14.95	-0.04	0.0995	-0.0021	0.0215	-0.0216	0.2156	0.7760	-0.0171	0.2503	-0.0220	0.3225
42	15.30	-0.07	0.0960	-0.0021	0.0220	-0.0224	0.2290	0.7856	-0.0176	0.2539	-0.0225	0.3232
43	15.64	-0.07	0.0934	-0.0021	0.0201	-0.0230	0.2154	0.8074	-0.0167	0.2608	-0.0207	0.3231
44	15.99	-0.08	0.0958	-0.0024	0.0219	-0.0256	0.2288	0.8246	-0.0166	0.2657	-0.0202	0.3222
45	16.30	-0.06	0.0991	-0.0021	0.0221	-0.0217	0.2232	0.8470	-0.0160	0.2718	-0.0189	0.3209
46	16.66	-0.07	0.1058	-0.0021	0.0228	-0.0203	0.2160	0.8621	-0.0159	0.2786	-0.0185	0.3231

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 51 0.97 1.7 0.0 82WZP12 16.750 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	17.00	-0.11	0.0936	-0.0021	0.0263	-0.0230	0.2809	0.8827	-0.0155	0.2857	-0.0176	0.3237
48	17.34	-0.13	0.0953	-0.0015	0.0233	-0.0163	0.2440	0.9012	-0.0144	0.2921	-0.0160	0.3241
49	17.64	-0.07	0.1036	-0.0014	0.0210	-0.0140	0.2029	0.9292	-0.0139	0.2996	-0.0150	0.3225
50	17.96	-0.08	0.1013	-0.0010	0.0254	-0.0099	0.2503	0.9453	-0.0127	0.3069	-0.0134	0.3246
51	18.32	-0.08	0.1061	-0.0014	0.0227	-0.0132	0.2145	0.9616	-0.0123	0.3099	-0.0128	0.3223
52	18.66	-0.10	0.1161	-0.0015	0.0237	-0.0129	0.2040	0.9856	-0.0107	0.3186	-0.0109	0.3233
53	18.95	-0.05	0.1104	-0.0011	0.0216	-0.0100	0.1955	1.0014	-0.0096	0.3206	-0.0096	0.3201
54	19.30	-0.09	0.1164	-0.0007	0.0237	-0.0060	0.2035	1.0195	-0.0089	0.3278	-0.0088	0.3215
55	19.62	-0.08	0.1235	-0.0004	0.0234	-0.0036	0.1899	1.0237	-0.0088	0.3285	-0.0086	0.3209
56	19.97	-0.10	0.1216	-0.0009	0.0271	-0.0078	0.2230	1.0496	-0.0077	0.3363	-0.0074	0.3205
57	20.30	-0.07	0.1257	0.0000	0.0267	0.0004	0.2123	1.0582	-0.0058	0.3398	-0.0055	0.3211
58	20.61	-0.10	0.1058	0.0	0.0249	0.0	0.2359	1.0587	-0.0053	0.3405	-0.0051	0.3216
59	20.97	-0.10	0.1216	0.0004	0.0286	0.0033	0.2354	1.0816	-0.0034	0.3465	-0.0031	0.3204
60	21.30	-0.07	0.1286	0.0010	0.0291	0.0078	0.2267	1.0972	-0.0023	0.3520	-0.0021	0.3208
61	21.64	-0.08	0.1235	0.0009	0.0325	0.0073	0.2636	1.1074	-0.0015	0.3564	-0.0014	0.3218
62	21.98	-0.07	0.1235	0.0009	0.0325	0.0073	0.2636	1.1310	-0.0007	0.3633	-0.0006	0.3212
63	22.25	-0.09	0.1139	0.0009	0.0308	0.0079	0.2709	1.1393	-0.0010	0.3658	-0.0009	0.3211
64	22.61	-0.07	0.1266	0.0016	0.0275	0.0126	0.2171	1.1568	-0.0001	0.3708	-0.0001	0.3205
65	22.90	-0.09	0.1251	0.0015	0.0296	0.0120	0.2365	1.1721	0.0005	0.3762	0.0005	0.3209
66	23.23	-0.07	0.1315	0.0023	0.0315	0.0179	0.2397	1.1842	0.0006	0.3792	0.0005	0.3202
67	23.52	-0.08	0.1316	0.0020	0.0316	0.0156	0.2405	1.2065	0.0027	0.3865	0.0022	0.3204
68	23.89	-0.10	0.1128	0.0017	0.0270	0.0151	0.2392	1.2068	0.0025	0.3865	0.0021	0.3203
69	24.14	-0.06	0.1273	0.0023	0.0335	0.0185	0.2633	1.2270	0.0026	0.3914	0.0021	0.3190
70	24.54	-0.08	0.1384	0.0030	0.0329	0.0217	0.2378	1.2435	0.0034	0.3969	0.0027	0.3192
71	24.81	-0.10	0.1318	0.0023	0.0316	0.0178	0.2399	1.2389	0.0039	0.3961	0.0032	0.3197
72	25.13	-0.12	0.1433	0.0035	0.0311	0.0244	0.2174	1.2563	0.0049	0.4006	0.0039	0.3189
73	25.45	-0.09	0.1428	0.0031	0.0319	0.0217	0.2233	1.2570	0.0050	0.4022	0.0040	0.3200
74	25.71	-0.11	0.1326	0.0036	0.0316	0.0271	0.2382	1.2625	0.0052	0.4026	0.0042	0.3189
75	26.08	-0.11	0.1288	0.0031	0.0321	0.0241	0.2494	1.2701	0.0106	0.4041	0.0084	0.3182
76	26.30	-0.06	0.1476	0.0037	0.0307	0.0254	0.2079	1.2813	0.0081	0.4088	0.0063	0.3191
77	26.65	-0.11	0.1481	0.0047	0.0307	0.0317	0.2076	1.2892	0.0074	0.4098	0.0057	0.3179
78	26.93	-0.10	0.1397	0.0041	0.0330	0.0297	0.2366	1.2877	0.0083	0.4129	0.0064	0.3206
79	27.29	-0.10	0.1484	0.0036	0.0300	0.0246	0.2025	1.2649	0.0163	0.4031	0.0129	0.3187
80	27.57	-0.09	0.1324	0.0030	0.0264	0.0227	0.1995	1.2760	0.0158	0.4052	0.0124	0.3175
81	27.92	-0.10	0.1425	0.0041	0.0349	0.0288	0.2448	1.2957	0.0136	0.4133	0.0105	0.3190
82	28.21	-0.09	0.1425	0.0040	0.0280	0.0284	0.1964	1.2609	0.0193	0.3990	0.0153	0.3165
83	28.53	-0.09	0.1490	0.0051	0.0369	0.0346	0.2480	1.2978	0.0163	0.4139	0.0126	0.3190
84	28.81	-0.12	0.1598	0.0056	0.0371	0.0350	0.2325	1.2860	0.0188	0.4078	0.0146	0.3171
85	29.14	-0.08	0.1687	0.0066	0.0416	0.0394	0.2467	1.3271	0.0134	0.4198	0.0101	0.3163
86	29.46	-0.10	0.1509	0.0051	0.0341	0.0341	0.2259	1.2922	0.0207	0.4023	0.0160	0.3113
87	29.78	-0.09	0.1710	0.0052	0.0367	0.0304	0.2145	1.3035	0.0197	0.4109	0.0151	0.3153
88	30.06	-0.12	0.1806	0.0067	0.0405	0.0371	0.2241	1.3317	0.0159	0.4225	0.0120	0.3173

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	52	1.01	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-1.92	-0.05	-0.3424	0.1113	0.1578	-0.0509	0.0180	0.3383	-0.3252		
2	-1.30	0.01	-0.2414	0.0710	0.1981	-0.0363	0.0170	0.3455	-0.2940		
3	-0.73	-0.05	-0.1367	0.0224	0.0835	-0.0569	0.0230	0.3421	-0.1637		
4	-0.17	-0.03	-0.0227	0.0258	0.0025	-0.0165	0.0230	0.3490	-1.1357		
5	0.37	0.02	0.1201	0.0129	0.0841	0.0253	0.0200	0.3510	0.1071		
6	0.91	-0.04	0.1810	0.0206	0.0476	-0.0946	0.0280	0.3529	0.1138		
7	1.40	0.02	0.3138	-0.0113	0.1309	-0.0193	0.0230	0.3508	-0.0361		
8	1.95	0.0	0.4396	-0.0706	0.2141	-0.1597	0.0330	0.3543	-0.1605		
9	2.43	0.03	0.5592	-0.1650	0.1777	-0.0448	0.0260	0.3514	-0.2950		
10	2.93	-0.03	0.6560	-0.2185	0.0618	0.0545	0.0250	0.3480	-0.3331		
11	3.39	-0.01	0.7684	-0.2959	0.1614	-0.1369	0.0260	0.3442	-0.3850		
12	3.88	-0.04	0.9418	-0.4406	0.0922	-0.0751	0.0220	0.3419	-0.4678		
13	4.33	-0.03	1.0273	-0.5483	0.1551	-0.1461	0.0260	0.3491	-0.5337		
14	4.77	0.01	1.1958	-0.6713	0.0827	-0.0688	0.0210	0.3459	-0.5614		
15	5.27	-0.02	1.3394	-0.8403	0.0497	-0.0466	0.0330	0.3434	-0.6274		
16	5.74	-0.05	1.4365	-0.9503	0.0252	-0.0963	0.0240	0.3457	-0.6615		
17	6.20	0.0	1.5827	-1.1479	0.1743	-0.1210	0.0200	0.3408	-0.7253		
18	6.64	0.01	1.7196	-1.2906	0.1993	-0.0780	0.0240	0.3448	-0.7505		
19	7.11	-0.07	1.8376	-1.4517	0.0112	-0.0527	0.0190	0.3501	-0.7900		
20	7.56	0.05	1.9583	-1.5748	0.2176	-0.1256	0.0250	0.3421	-0.8042		
21	8.02	-0.05	2.1118	-1.8017	0.0908	-0.1481	0.0260	0.3419	-0.8532		
22	8.43	-0.15	2.2232	-1.8847	-0.0112	-0.0623	0.0250	0.3460	-0.8477		
23	8.85	0.03	2.4037	-2.1813	0.1177	-0.0958	0.0260	0.3455	-0.9075		
24	9.28	-0.06	2.5707	-2.3591	0.0389	-0.0385	0.0240	0.3409	-0.9177		
25	9.68	-0.05	2.6400	-2.4341	0.1428	-0.2129	0.0280	0.3402	-0.9220		
26	10.11	-0.09	2.8108	-2.6563	0.0653	-0.1144	0.0260	0.3357	-0.9450		
27	10.51	-0.01	2.9374	-2.8315	0.1113	-0.1478	0.0250	0.3266	-0.9640		
28	10.93	-0.04	3.0623	-2.9774	0.1873	-0.1522	0.0270	0.3311	-0.9723		
29	11.32	-0.02	3.1581	-3.1545	0.0866	-0.0992	0.0270	0.3292	-0.9989		
30	11.71	-0.08	3.3484	-3.3409	0.0391	-0.1627	0.0290	0.3252	-0.9978		
31	12.07	-0.07	3.4290	-3.4447	0.0585	-0.1099	0.0310	0.3205	-1.0046		
32	12.46	-0.05	3.6056	-3.6261	0.1744	-0.0851	0.0270	0.3144	-1.0057		
33	12.81	-0.03	3.7391	-3.8329	0.0442	-0.0269	0.0340	0.3173	-1.0251		
34	13.17	-0.07	3.8465	-3.9333	-0.0263	-0.0652	0.0290	0.3093	-1.0226		
35	13.55	-0.05	3.9909	-4.1164	0.0592	-0.0539	0.0360	0.3173	-1.0315		
36	13.90	-0.05	4.1595	-4.3104	0.1204	-0.0576	0.0320	0.3153	-1.0363		
37	14.27	-0.07	4.2522	-4.4683	0.0215	0.0009	0.0310	0.3152	-1.0508		
38	14.65	-0.06	4.4131	-4.6236	0.0743	-0.0220	0.0330	0.3094	-1.0477		
39	14.99	-0.06	4.5468	-4.7917	0.1481	-0.0873	0.0260	0.3050	-1.0539		
40	15.32	-0.08	4.6319	-4.9139	-0.0223	0.0102	0.0280	0.2962	-1.0609		
41	15.71	-0.07	4.7783	-5.0768	0.0548	0.0083	0.0300	0.2894	-1.0625		
42	16.04	-0.09	4.8968	-5.2887	0.0891	-0.0047	0.0290	0.2738	-1.0800		
43	16.37	-0.05	5.0755	-5.5310	0.1171	0.0271	0.0230	0.2673	-1.0897		
44	16.67	-0.06	5.1516	-5.6365	0.0875	0.0735	0.0330	0.2636	-1.0941		
45	17.03	-0.06	5.3060	-5.8506	0.0844	-0.0332	0.0260	0.2499	-1.1026		
46	17.36	-0.09	5.4414	-6.0142	-0.0499	0.0729	0.0240	0.2511	-1.1053		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	52	1.01	1.7	0.0	82W2F.12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.70	-0.07	5.5162	-6.1339	0.0732	0.0985	0.0210	0.2459	-1.1120		
48	18.02	-0.05	5.6508	-6.3133	0.0520	0.1272	0.0170	0.2365	-1.1172		
49	18.36	-0.06	5.8597	-6.5358	0.0078	0.1171	0.0240	0.2409	-1.1154		
50	18.71	-0.10	5.9472	-6.7013	-0.0464	0.0829	0.0150	0.2298	-1.1268		
51	19.03	-0.04	6.0389	-6.8237	0.0639	0.1875	0.0150	0.2248	-1.1300		
52	19.37	-0.09	6.1962	-6.9899	-0.0413	0.1078	0.0140	0.2134	-1.1281		
53	19.69	-0.06	6.3421	-7.1421	-0.0015	0.2781	0.0100	0.2157	-1.1261		
54	20.03	-0.07	6.4856	-7.3100	-0.0145	0.2133	0.0060	0.2072	-1.1271		
55	20.35	-0.07	6.6009	-7.3836	0.0831	0.1996	0.0060	0.2005	-1.1186		
56	20.69	-0.09	6.6847	-7.5129	-0.0620	0.2518	0.0060	0.1988	-1.1239		
57	21.05	-0.09	6.9042	-7.7391	0.0077	0.1072	-0.0060	0.1880	-1.1209		
58	21.37	-0.10	6.9647	-7.7978	-0.0678	0.1499	-0.0100	0.1871	-1.1196		
59	21.70	-0.10	7.0975	-7.8467	-0.1300	0.2370	-0.0110	0.1812	-1.1056		
60	22.04	-0.08	7.2352	-7.9715	0.0515	0.0709	-0.0150	0.1682	-1.1018		
61	22.36	-0.08	7.3473	-8.0716	0.0601	0.0449	-0.0190	0.1627	-1.0986		
62	22.67	-0.09	7.4754	-8.0209	-0.0035	0.1919	-0.0170	0.1596	-1.0730		
63	23.00	-0.10	7.6450	-8.1553	-0.0048	0.1047	-0.0190	0.1532	-1.0668		
64	23.31	-0.10	7.7779	-8.1564	0.0090	0.1604	-0.0110	0.1459	-1.0487		
65	23.65	-0.09	7.8427	-8.2471	0.0934	0.0122	-0.0080	0.1278	-1.0516		
66	23.93	-0.10	8.0073	-8.2325	-0.0249	0.1528	-0.0090	0.1326	-1.0281		
67	24.30	-0.09	8.1620	-8.3782	0.0152	0.1577	-0.0250	0.1297	-1.0265		
68	24.61	-0.10	8.3153	-8.4529	0.0607	0.1870	-0.0320	0.1237	-1.0165		
69	24.95	-0.08	8.5263	-8.4732	0.0436	0.1459	-0.0480	0.1177	-0.9938		
70	25.25	-0.09	8.6020	-8.5872	-0.0394	0.3371	-0.0500	0.1083	-0.9983		
71	25.54	-0.10	8.6862	-8.6791	-0.0228	0.2789	-0.0450	0.1011	-0.9992		
72	25.87	-0.10	8.8929	-8.7496	-0.0400	0.3030	-0.0620	0.1009	-0.9839		
73	26.18	-0.10	9.0418	-8.7641	-0.0111	0.3655	-0.0590	0.0802	-0.9693		
74	26.50	-0.10	9.2129	-8.8256	-0.0819	0.3776	-0.0750	0.0738	-0.9580		
75	26.76	-0.11	9.2923	-8.8967	-0.1270	0.3997	-0.0700	0.0661	-0.9574		
76	27.09	-0.09	9.4435	-8.9134	0.0075	0.2815	-0.0980	0.0585	-0.9439		
77	27.41	-0.09	9.5309	-8.8208	-0.1119	0.5706	-0.1000	0.0486	-0.9255		
78	27.71	-0.09	9.7073	-8.9099	-0.0560	0.3973	-0.1200	0.0407	-0.9178		
79	28.02	-0.09	9.8056	-8.9585	-0.1025	0.4984	-0.1120	0.0464	-0.9136		
80	28.36	-0.09	10.0139	-8.7691	-0.1400	0.5029	-0.1340	0.0503	-0.8757		
81	28.67	-0.10	10.1072	-8.7657	-0.0277	0.1528	-0.1370	0.0318	-0.8673		
82	28.98	-0.10	10.2244	-8.7408	0.0578	-0.0059	-0.1320	0.0216	-0.8549		
83	29.28	-0.09	10.2737	-8.7399	0.1050	-0.0880	-0.1380	0.0172	-0.8507		
84	29.60	-0.10	10.4430	-8.7320	0.1005	-0.1267	-0.1550	0.0062	-0.8362		
85	29.91	-0.08	10.5493	-8.6318	0.1782	-0.1635	-0.1480	0.0014	-0.8182		
86	30.23	-0.11	10.6823	-8.5761	0.0958	-0.3891	-0.1400	-0.0075	-0.8028		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	52	1.01	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-1.92	-0.05	-0.2699	0.0014	0.0499	-0.0052	-0.1848	-0.0195	0.0036	-0.0230	-0.1846	1.1794
2	-1.30	0.01	-0.2611	0.0012	0.0489	-0.0048	-0.1873	-0.0099	0.0023	-0.0168	-0.2323	1.6969
3	-0.73	-0.05	-0.2552	0.0011	0.0483	-0.0043	-0.1891	-0.0011	0.0015	-0.0133	-1.4088	12.0605
4	-0.17	-0.03	-0.2605	0.0012	0.0488	-0.0048	-0.1873	0.0117	0.0005	-0.0091	0.0470	-0.7779
5	0.37	0.02	-0.2605	0.0013	0.0488	-0.0050	-0.1873	0.0175	0.0001	-0.0049	0.0086	-0.2782
6	0.91	-0.04	-0.2649	0.0014	0.0492	-0.0053	-0.1858	0.0237	-0.0005	-0.0018	-0.0232	-0.0761
7	1.40	0.02	-0.2604	0.0013	0.0487	-0.0050	-0.1871	0.0390	-0.0017	0.0038	-0.0449	0.0973
8	1.95	0.0	-0.2648	0.0014	0.0493	-0.0053	-0.1860	0.0462	-0.0026	0.0089	-0.0563	0.1925
9	2.43	0.03	-0.2602	0.0013	0.0487	-0.0050	-0.1872	0.0627	-0.0044	0.0157	-0.0710	0.2503
10	2.93	-0.03	-0.2542	0.0012	0.0480	-0.0047	-0.1888	0.0711	-0.0055	0.0214	-0.0773	0.3009
11	3.39	-0.01	-0.2541	0.0012	0.0480	-0.0049	-0.1890	0.0914	-0.0069	0.0290	-0.0760	0.3168
12	3.88	-0.04	-0.2614	0.0013	0.0488	-0.0052	-0.1867	0.1101	-0.0085	0.0380	-0.0776	0.3450
13	4.33	-0.03	-0.2538	0.0012	0.0479	-0.0049	-0.1888	0.1276	-0.0097	0.0454	-0.0764	0.3559
14	4.77	0.01	-0.2611	0.0013	0.0488	-0.0052	-0.1869	0.1448	-0.0108	0.0546	-0.0749	0.3774
15	5.27	-0.02	-0.2551	0.0012	0.0481	-0.0049	-0.1885	0.1691	-0.0119	0.0623	-0.0704	0.3687
16	5.74	-0.05	-0.2681	0.0014	0.0496	-0.0054	-0.1849	0.1814	-0.0125	0.0685	-0.0689	0.3779
17	6.20	0.0	-0.2737	0.0013	0.0502	-0.0049	-0.1834	0.2065	-0.0133	0.0785	-0.0646	0.3802
18	6.64	0.01	-0.2766	0.0015	0.0505	-0.0056	-0.1825	0.2274	-0.0140	0.0892	-0.0618	0.3921
19	7.11	-0.07	-0.2636	0.0013	0.0490	-0.0051	-0.1858	0.2465	-0.0147	0.0980	-0.0596	0.3896
20	7.56	0.05	-0.2602	0.0013	0.0486	-0.0050	-0.1868	0.2635	-0.0149	0.1004	-0.0561	0.3780
21	8.02	-0.05	-0.2761	0.0015	0.0504	-0.0056	-0.1824	0.2893	-0.0153	0.1096	-0.0529	0.3788
22	8.43	-0.15	-0.2673	0.0014	0.0493	-0.0052	-0.1846	0.3079	-0.0159	0.1169	-0.0516	0.3796
23	8.85	0.03	-0.2630	0.0013	0.0490	-0.0051	-0.1862	0.3371	-0.0163	0.1270	-0.0483	0.3768
24	9.28	-0.06	-0.2631	0.0013	0.0485	-0.0051	-0.1860	0.3505	-0.0168	0.1359	-0.0479	0.3877
25	9.68	-0.05	-0.2877	0.0017	0.0517	-0.0059	-0.1796	0.3749	-0.0173	0.1434	-0.0463	0.3825
26	10.11	-0.09	-0.2815	0.0016	0.0510	-0.0057	-0.1810	0.3959	-0.0178	0.1510	-0.0449	0.3814
27	10.51	-0.01	-0.2756	0.0015	0.0503	-0.0056	-0.1826	0.4122	-0.0182	0.1565	-0.0441	0.3795
28	10.93	-0.04	-0.2687	0.0015	0.0496	-0.0056	-0.1845	0.4300	-0.0182	0.1642	-0.0424	0.3818
29	11.32	-0.02	-0.2686	0.0014	0.0495	-0.0054	-0.1843	0.4464	-0.0186	0.1704	-0.0418	0.3818
30	11.71	-0.08	-0.2672	0.0014	0.0494	-0.0052	-0.1847	0.4667	-0.0188	0.1774	-0.0404	0.3801
31	12.07	-0.07	-0.2585	0.0013	0.0484	-0.0050	-0.1871	0.4794	-0.0186	0.1820	-0.0393	0.3797
32	12.46	-0.05	-0.2756	0.0015	0.0503	-0.0056	-0.1826	0.5007	-0.0191	0.1894	-0.0381	0.3783
33	12.81	-0.03	-0.2600	0.0013	0.0486	-0.0052	-0.1868	0.5216	-0.0189	0.1954	-0.0363	0.3746
34	13.17	-0.07	-0.2527	0.0012	0.0477	-0.0049	-0.1887	0.5357	-0.0186	0.1994	-0.0348	0.3722
35	13.55	-0.05	-0.2668	0.0014	0.0493	-0.0054	-0.1848	0.5517	-0.0188	0.2037	-0.0341	0.3693
36	13.90	-0.05	-0.2524	0.0012	0.0477	-0.0048	-0.1890	0.5682	-0.0184	0.2098	-0.0325	0.3693
37	14.27	-0.07	-0.2448	0.0011	0.0468	-0.0045	-0.1913	0.5867	-0.0183	0.2150	-0.0312	0.3664
38	14.65	-0.06	-0.2519	0.0012	0.0476	-0.0048	-0.1888	0.6045	-0.0183	0.2188	-0.0303	0.3620
39	14.99	-0.06	-0.2327	0.0009	0.0454	-0.0041	-0.1949	0.6213	-0.0180	0.2236	-0.0290	0.3599
40	15.32	-0.08	-0.2154	0.0007	0.0434	-0.0032	-0.2016	0.6417	-0.0172	0.2295	-0.0268	0.3577
41	15.71	-0.07	-0.2226	0.0008	0.0443	-0.0036	-0.1991	0.6595	-0.0169	0.2351	-0.0257	0.3566
42	16.04	-0.09	-0.2081	0.0005	0.0427	-0.0026	-0.2050	0.6811	-0.0161	0.2416	-0.0237	0.3548
43	16.37	-0.05	-0.2081	0.0005	0.0427	-0.0026	-0.2050	0.7043	-0.0157	0.2477	-0.0223	0.3517
44	16.67	-0.06	-0.1995	0.0004	0.0416	-0.0023	-0.2086	0.7190	-0.0152	0.2498	-0.0212	0.3474
45	17.03	-0.06	-0.1766	0.0001	0.0391	-0.0006	-0.2217	0.7384	-0.0151	0.2571	-0.0205	0.3482
46	17.36	-0.09	-0.1884	0.0003	0.0404	-0.0016	-0.2146	0.7627	-0.0150	0.2624	-0.0197	0.3441

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 52 1.01 1.7 0.0 82N2F12 16.750 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	17.70	-0.07	-0.1854	0.0002	0.0401	-0.0011	-0.2164	0.7718	-0.0152	0.2661	-0.0198	0.3447
48	18.02	-0.05	-0.1509	-0.0002	0.0363	0.0017	-0.2407	0.7890	-0.0151	0.2702	-0.0191	0.3425
49	18.36	-0.06	-0.1568	-0.0002	0.0369	0.0013	-0.2357	0.8170	-0.0143	0.2758	-0.0175	0.3376
50	18.71	-0.10	-0.1598	-0.0001	0.0372	0.0006	-0.2331	0.8342	-0.0142	0.2811	-0.0170	0.3369
51	19.03	-0.04	-0.1381	-0.0004	0.0345	0.0033	-0.2526	0.8517	-0.0145	0.2841	-0.0171	0.3336
52	19.37	-0.09	-0.1137	-0.0008	0.0322	0.0075	-0.2433	0.8712	-0.0146	0.2876	-0.0168	0.3301
53	19.69	-0.06	-0.1223	-0.0007	0.0331	0.0061	-0.2710	0.8891	-0.0146	0.2937	-0.0165	0.3303
54	20.03	-0.07	-0.1426	-0.0004	0.0354	0.0028	-0.2481	0.9049	-0.0144	0.2967	-0.0160	0.3279
55	20.35	-0.07	-0.1312	-0.0005	0.0342	0.0042	-0.2605	0.9185	-0.0147	0.3013	-0.0161	0.3280
56	20.69	-0.09	-0.1080	-0.0009	0.0315	0.0068	-0.2918	0.9346	-0.0148	0.3065	-0.0158	0.3280
57	21.05	-0.09	-0.1312	-0.0006	0.0342	0.0046	-0.2605	0.9552	-0.0152	0.3120	-0.0160	0.3266
58	21.37	-0.10	-0.0847	-0.0013	0.0289	0.0159	-0.3409	0.9680	-0.0148	0.3137	-0.0153	0.3240
59	21.70	-0.10	-0.0732	-0.0015	0.0276	0.0212	-0.3772	0.9857	-0.0153	0.3203	-0.0155	0.3249
60	22.04	-0.08	-0.0732	-0.0015	0.0276	0.0205	-0.3772	0.9986	-0.0157	0.3233	-0.0157	0.3237
61	22.36	-0.08	-0.0645	-0.0016	0.0266	0.0248	-0.4125	1.0089	-0.0157	0.3257	-0.0156	0.3228
62	22.67	-0.09	-0.0850	-0.0012	0.0290	0.0141	-0.3409	1.0126	-0.0171	0.3263	-0.0169	0.3223
63	23.00	-0.10	-0.0763	-0.0014	0.0280	0.0190	-0.3667	1.0246	-0.0179	0.3295	-0.0175	0.3216
64	23.31	-0.10	-0.1082	-0.0010	0.0316	0.0092	-0.2925	1.0251	-0.0180	0.3271	-0.0176	0.3191
65	23.65	-0.09	-0.0997	-0.0011	0.0307	0.0110	-0.3077	1.0329	-0.0175	0.3303	-0.0170	0.3198
66	23.93	-0.10	-0.0734	-0.0016	0.0277	0.0218	-0.3780	1.0380	-0.0173	0.3320	-0.0167	0.3198
67	24.30	-0.09	-0.0647	-0.0017	0.0267	0.0270	-0.4133	1.0538	-0.0170	0.3347	-0.0161	0.3177
68	24.61	-0.10	-0.0370	-0.0022	0.0237	0.0608	-0.6398	1.0640	-0.0160	0.3378	-0.0151	0.3175
69	24.95	-0.08	-0.0413	-0.0023	0.0242	0.0557	-0.5869	1.0878	-0.0151	0.3429	-0.0121	0.3152
70	25.25	-0.09	-0.0500	-0.0022	0.0251	0.0450	-0.5028	1.1152	-0.0109	0.3493	-0.0098	0.3132
71	25.54	-0.10	-0.0355	-0.0024	0.0236	0.0690	-0.6640	1.1273	-0.0097	0.3521	-0.0086	0.3124
72	25.87	-0.10	0.0127	-0.0031	0.0181	-0.2480	1.4277	1.1430	-0.0068	0.3551	-0.0059	0.3106
73	26.18	-0.10	0.0142	-0.0032	0.0180	-0.2288	1.2698	1.1511	-0.0051	0.3569	-0.0045	0.3100
74	26.50	-0.10	-0.0165	-0.0028	0.0215	0.1697	-1.3031	1.1668	-0.0036	0.3607	-0.0031	0.3091
75	26.76	-0.11	0.0290	-0.0035	0.0165	-0.1224	0.5677	1.1748	-0.0008	0.3620	-0.0007	0.3081
76	27.09	-0.09	0.0142	-0.0031	0.0180	-0.2218	1.2698	1.1917	0.0025	0.3658	0.0021	0.3070
77	27.41	-0.09	0.0586	-0.0042	0.0131	-0.0717	0.2240	1.2061	0.0038	0.3698	0.0032	0.3066
78	27.71	-0.09	0.0614	-0.0040	0.0125	-0.0651	0.2094	1.2256	0.0078	0.3718	0.0064	0.3034
79	28.02	-0.09	0.0570	-0.0039	0.0133	-0.0693	0.2332	1.2262	0.0088	0.3718	0.0072	0.3032
80	28.36	-0.09	0.0570	-0.0040	0.0134	-0.0702	0.2350	1.2453	0.0091	0.3766	0.0073	0.3024
81	28.67	-0.10	0.0510	-0.0037	0.0140	-0.0735	0.2744	1.2489	0.0125	0.3757	0.0100	0.3009
82	28.98	-0.10	0.0376	-0.0034	0.0155	-0.0917	0.4130	1.2589	0.0139	0.3760	0.0110	0.2987
83	29.28	-0.09	0.0216	-0.0032	0.0173	-0.1504	0.8008	1.2637	0.0134	0.3793	0.0106	0.3001
84	29.60	-0.10	0.0373	-0.0030	0.0155	-0.0818	0.4163	1.2779	0.0177	0.3783	0.0139	0.2961
85	29.91	-0.08	-0.0129	-0.0022	0.0212	0.1744	-1.6435	1.2824	0.0221	0.3720	0.0173	0.2901
86	30.23	-0.11	-0.0071	-0.0022	0.0205	0.3098	-2.8921	1.2787	0.0224	0.3724	0.0175	0.2912

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	52	1.01	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-1.92	-0.05	0.0550	0.0019	-0.0063	0.0354	-0.1141	-0.0076	0.0043	-0.0191	-0.5657	2.5174
2	-1.30	-0.01	0.0549	0.0015	-0.0063	0.0282	-0.1149	0.0154	0.0023	-0.0137	-0.1526	-0.8876
3	-0.73	-0.05	0.0549	0.0015	-0.0063	0.0282	-0.1149	0.0257	0.0011	-0.0082	0.0428	-0.3205
4	-0.17	-0.03	0.0507	0.0012	-0.0052	0.0247	-0.1027	0.0373	0.0000	-0.0052	0.0013	-0.1386
5	0.37	0.02	0.0574	0.0009	-0.0053	0.0165	-0.0919	0.0504	-0.0009	-0.0025	-0.0188	-0.0497
6	0.91	-0.04	0.0529	0.0005	-0.0034	0.0104	-0.0638	0.0624	-0.0022	0.0013	-0.0353	0.0207
7	1.40	0.02	0.0528	0.0002	-0.0034	0.0047	-0.0645	0.0788	-0.0039	0.0071	-0.0501	0.0896
8	1.95	0.0	0.0527	0.0001	-0.0033	0.0028	-0.0634	0.0977	-0.0055	0.0117	-0.0568	0.1193
9	2.43	0.03	0.0559	0.0001	-0.0031	0.0018	-0.0550	0.1174	-0.0071	0.0188	-0.0605	0.1603
10	2.93	-0.03	0.0582	-0.0003	-0.0013	-0.0052	-0.0225	0.1396	-0.0085	0.0252	-0.0609	0.1806
11	3.39	-0.01	0.0580	-0.0007	-0.0013	-0.0121	-0.0220	0.1590	-0.0097	0.0296	-0.0610	0.1860
12	3.88	-0.04	0.0645	-0.0008	-0.0007	-0.0124	-0.0110	0.1772	-0.0112	0.0385	-0.0635	0.2175
13	4.33	-0.03	0.0520	-0.0012	0.0034	-0.0231	0.0659	0.2078	-0.0124	0.0460	-0.0599	0.2216
14	4.77	-0.01	0.0664	-0.0012	0.0017	-0.0188	0.0260	0.2264	-0.0134	0.0541	-0.0594	0.2391
15	5.27	-0.02	0.0555	-0.0013	0.0030	-0.0234	0.0539	0.2493	-0.0140	0.0636	-0.0563	0.2550
16	5.74	-0.05	0.0640	-0.0016	0.0060	-0.0258	0.0942	0.2653	-0.0148	0.0688	-0.0560	0.2593
17	6.20	0.0	0.0674	-0.0021	0.0057	-0.0319	0.0840	0.2881	-0.0155	0.0790	-0.0539	0.2742
18	6.64	0.01	0.0539	-0.0016	0.0059	-0.0306	0.1087	0.3110	-0.0161	0.0867	-0.0517	0.2789
19	7.11	-0.07	0.0624	-0.0018	0.0089	-0.0288	0.1425	0.3333	-0.0164	0.0968	-0.0492	0.2903
20	7.56	0.05	0.0622	-0.0021	0.0088	-0.0338	0.1419	0.3547	-0.0170	0.1029	-0.0479	0.2901
21	8.02	-0.05	0.0656	-0.0025	0.0086	-0.0381	0.1305	0.3744	-0.0171	0.1104	-0.0458	0.2948
22	8.43	-0.15	0.0642	-0.0022	0.0113	-0.0343	0.1759	0.3994	-0.0177	0.1197	-0.0444	0.2997
23	8.85	0.03	0.0725	-0.0021	0.0084	-0.0290	0.1153	0.4270	-0.0175	0.1305	-0.0411	0.3056
24	9.28	-0.06	0.0716	-0.0018	0.0105	-0.0251	0.1461	0.4526	-0.0180	0.1376	-0.0398	0.3041
25	9.68	-0.05	0.0715	-0.0022	0.0104	-0.0308	0.1458	0.4693	-0.0185	0.1424	-0.0394	0.3034
26	10.11	-0.09	0.0807	-0.0021	0.0120	-0.0266	0.1486	0.4935	-0.0183	0.1542	-0.0372	0.3126
27	10.51	-0.01	0.0715	-0.0018	0.0104	-0.0252	0.1458	0.5107	-0.0185	0.1589	-0.0363	0.3111
28	10.93	-0.04	0.0729	-0.0017	0.0143	-0.0240	0.1960	0.5396	-0.0188	0.1676	-0.0349	0.3106
29	11.32	-0.02	0.0796	-0.0020	0.0141	-0.0257	0.1774	0.5581	-0.0190	0.1734	-0.0341	0.3106
30	11.71	-0.08	0.0787	-0.0017	0.0162	-0.0222	0.2062	0.5629	-0.0193	0.1817	-0.0332	0.3118
31	12.07	-0.07	0.0744	-0.0015	0.0180	-0.0208	0.2418	0.5961	-0.0194	0.1669	-0.0326	0.3136
32	12.46	-0.05	0.0823	-0.0014	0.0157	-0.0176	0.1911	0.6193	-0.0189	0.1944	-0.0306	0.3138
33	12.81	-0.03	0.0907	-0.0011	0.0128	-0.0127	0.1414	0.6417	-0.0189	0.2003	-0.0295	0.3122
34	13.17	-0.07	0.0800	-0.0010	0.0141	-0.0131	0.1757	0.6554	-0.0184	0.2052	-0.0281	0.3131
35	13.55	-0.05	0.0851	-0.0015	0.0168	-0.0182	0.1969	0.6815	-0.0186	0.2129	-0.0273	0.3124
36	13.90	-0.05	0.0601	-0.0015	0.0199	-0.0187	0.2483	0.6998	-0.0180	0.2203	-0.0258	0.3148
37	14.27	-0.07	0.0787	-0.0011	0.0161	-0.0146	0.2049	0.7117	-0.0177	0.2242	-0.0249	0.3151
38	14.65	-0.06	0.0902	-0.0017	0.0195	-0.0188	0.2157	0.7371	-0.0171	0.2311	-0.0233	0.3135
39	14.99	-0.06	0.0940	-0.0015	0.0183	-0.0160	0.1949	0.7523	-0.0171	0.2370	-0.0228	0.3150
40	15.32	-0.08	0.0906	-0.0011	0.0186	-0.0121	0.2052	0.7699	-0.0170	0.2439	-0.0221	0.3169
41	15.71	-0.07	0.0941	-0.0014	0.0183	-0.0149	0.1940	0.7908	-0.0165	0.2495	-0.0209	0.3155
42	16.04	-0.09	0.0943	-0.0007	0.0182	-0.0074	0.1932	0.8096	-0.0163	0.2559	-0.0202	0.3160
43	16.37	-0.05	0.1000	-0.0007	0.0202	-0.0070	0.2022	0.8344	-0.0162	0.2633	-0.0194	0.3155
44	16.67	-0.06	0.0942	-0.0011	0.0182	-0.0117	0.1931	0.8439	-0.0161	0.2672	-0.0191	0.3166
45	17.03	-0.06	0.0930	-0.0007	0.0210	-0.0075	0.2257	0.8678	-0.0155	0.2730	-0.0179	0.3146
46	17.36	-0.09	0.1048	-0.0010	0.0177	-0.0095	0.1641	0.8853	-0.0153	0.2781	-0.0173	0.3141

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION
6		52		1.01 1.7		0.0	B2W2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4	
47	17.70	-0.07	0.1011	-0.0014	0.0182	-0.0138	0.1799	0.9008	-0.0156	0.2810	-0.0174	0.3119	
48	18.02	-0.05	0.1029	-0.0013	0.0213	-0.0131	0.2069	0.9186	-0.0155	0.2875	-0.0169	0.3130	
49	18.36	-0.06	0.1029	-0.0007	0.0219	-0.0068	0.2127	0.9425	-0.0151	0.2957	-0.0161	0.3137	
50	18.71	-0.10	0.1085	-0.0010	0.0239	-0.0097	0.2208	0.9666	-0.0152	0.3000	-0.0158	0.3104	
51	19.03	-0.04	0.1071	-0.0011	0.0202	-0.0103	0.1885	0.9766	-0.0155	0.3044	-0.0159	0.3117	
52	19.37	-0.09	0.1034	-0.0007	0.0214	-0.0068	0.2065	0.9961	-0.0150	0.3099	-0.0151	0.3111	
53	19.69	-0.06	0.1022	-0.0001	0.0241	-0.0010	0.2354	1.0173	-0.0149	0.3173	-0.0146	0.3119	
54	20.03	-0.07	0.1212	-0.0000	0.0265	-0.0004	0.2185	1.0346	-0.0141	0.3202	-0.0137	0.3094	
55	20.35	-0.07	0.1236	-0.0006	0.0283	-0.0049	0.2288	1.0536	-0.0142	0.3252	-0.0135	0.3086	
56	20.69	-0.09	0.1197	-0.0006	0.0228	-0.0054	0.1904	1.0596	-0.0148	0.3279	-0.0140	0.3094	
57	21.05	-0.09	0.1241	0.0006	0.0281	0.0048	0.2268	1.0833	-0.0140	0.3347	-0.0130	0.3089	
58	21.37	-0.10	0.1097	0.0005	0.0297	0.0050	0.2712	1.0898	-0.0148	0.3365	-0.0136	0.3088	
59	21.70	-0.10	0.1184	0.0004	0.0262	0.0038	0.2217	1.1043	-0.0147	0.3399	-0.0134	0.3078	
60	22.04	-0.08	0.1191	0.0010	0.0314	0.0084	0.2635	1.1214	-0.0137	0.3458	-0.0123	0.3083	
61	22.36	-0.08	0.1289	0.0009	0.0322	0.0070	0.2502	1.1306	-0.0141	0.3470	-0.0125	0.3070	
62	22.67	-0.09	0.1193	0.0009	0.0313	0.0075	0.2628	1.1376	-0.0136	0.3501	-0.0120	0.3077	
63	23.00	-0.10	0.1330	0.0016	0.0319	0.0120	0.2400	1.1612	-0.0131	0.3572	-0.0113	0.3076	
64	23.31	-0.10	0.1358	0.0023	0.0335	0.0169	0.2471	1.1664	-0.0118	0.3594	-0.0102	0.3081	
65	23.65	-0.09	0.1334	0.0020	0.0318	0.0150	0.2388	1.1748	-0.0105	0.3608	-0.0090	0.3071	
66	23.93	-0.10	0.1422	0.0033	0.0355	0.0236	0.2495	1.1869	-0.0088	0.3688	-0.0075	0.3107	
67	24.30	-0.09	0.1386	0.0030	0.0360	0.0220	0.2596	1.1969	-0.0095	0.3690	-0.0079	0.3083	
68	24.61	-0.10	0.1397	0.0026	0.0339	0.0190	0.2430	1.2150	-0.0080	0.3755	-0.0066	0.3090	
69	24.95	-0.08	0.1491	0.0035	0.0362	0.0238	0.2427	1.2333	-0.0063	0.3808	-0.0051	0.3087	
70	25.25	-0.09	0.1512	0.0037	0.0326	0.0248	0.2155	1.2418	-0.0048	0.3847	-0.0039	0.3098	
71	25.54	-0.10	0.1456	0.0033	0.0300	0.0227	0.2062	1.2448	-0.0048	0.3851	-0.0039	0.3094	
72	25.87	-0.10	0.1494	0.0036	0.0362	0.0244	0.2422	1.2646	-0.0036	0.3911	-0.0028	0.3093	
73	26.18	-0.10	0.1431	0.0037	0.0357	0.0262	0.2494	1.2730	-0.0001	0.3955	-0.0001	0.3107	
74	26.50	-0.10	0.1434	0.0039	0.0357	0.0275	0.2488	1.2806	0.0005	0.3984	0.0004	0.3111	
75	26.76	-0.11	0.1553	0.0033	0.0324	0.0216	0.2089	1.2913	0.0026	0.4021	0.0021	0.3114	
76	27.09	-0.09	0.1550	0.0050	0.0344	0.0323	0.2222	1.2998	0.0027	0.4049	0.0021	0.3115	
77	27.41	-0.09	0.1434	0.0036	0.0299	0.0254	0.2084	1.2801	0.0122	0.4006	0.0096	0.3130	
78	27.71	-0.09	0.1464	0.0045	0.0316	0.0311	0.2157	1.2875	0.0129	0.4019	0.0101	0.3122	
79	28.02	-0.09	0.1540	0.0036	0.0360	0.0234	0.2339	1.2939	0.0124	0.4031	0.0096	0.3116	
80	28.36	-0.09	0.1590	0.0050	0.0341	0.0314	0.2143	1.2831	0.0143	0.4001	0.0112	0.3119	
81	28.67	-0.10	0.1569	0.0054	0.0384	0.0347	0.2446	1.2917	0.0143	0.4015	0.0111	0.3108	
82	28.98	-0.10	0.1581	0.0046	0.0356	0.0291	0.2251	1.2895	0.0156	0.3990	0.0121	0.3094	
83	29.28	-0.09	0.1754	0.0051	0.0364	0.0294	0.2078	1.2868	0.0169	0.3968	0.0132	0.3084	
84	29.60	-0.10	0.1730	0.0061	0.0388	0.0343	0.2180	1.3012	0.0148	0.4011	0.0114	0.3082	
85	29.91	-0.08	0.1757	0.0057	0.0371	0.0324	0.2114	1.2982	0.0157	0.4036	0.0121	0.3109	
86	30.23	-0.11	0.1748	0.0061	0.0392	0.0349	0.2245	1.2988	0.0158	0.3968	0.0122	0.3055	

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AEDC-TR-76-125

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	53	1.05	1.7	0.0	82M2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.01	-0.01	-0.3825	0.1586	0.1007	-0.1150	0.0190	0.3809	-0.4146		
2	-1.38	-0.03	-0.2565	0.1121	0.1315	-0.1091	0.0230	0.3945	-0.4370		
3	-0.82	0.0	-0.1550	0.0600	0.1686	-0.0260	0.0210	0.4021	-0.3871		
4	-0.28	-0.04	-0.0137	0.0182	0.1593	-0.0640	0.0180	0.3994	-1.3270		
5	0.28	-0.01	0.0511	0.0295	0.0955	-0.1047	0.0220	0.3975	0.5765		
6	0.79	-0.01	0.1914	0.0060	0.1101	-0.1031	0.0230	0.4055	0.0316		
7	1.30	-0.01	0.2740	-0.0156	0.1325	-0.0875	0.0240	0.4069	-0.0569		
8	1.85	-0.03	0.4141	-0.0699	0.1184	-0.0977	0.0240	0.4041	-0.1687		
9	2.32	0.01	0.4930	-0.1243	0.1745	-0.0513	0.0220	0.4048	-0.2522		
10	2.83	0.0	0.6521	-0.2251	0.1761	-0.0735	0.0210	0.4022	-0.3451		
11	3.30	0.02	0.7552	-0.3384	0.1587	-0.1332	0.0250	0.4002	-0.4481		
12	3.80	0.0	0.8981	-0.4674	0.1127	-0.0198	0.0270	0.4036	-0.5205		
13	4.26	-0.02	1.0509	-0.6433	0.1067	-0.1314	0.0210	0.3994	-0.6122		
14	4.73	0.0	1.1525	-0.7897	0.1705	-0.1347	0.0230	0.3964	-0.6652		
15	5.18	-0.07	1.2637	-0.9133	0.0401	-0.0571	0.0270	0.3944	-0.7227		
16	5.67	0.01	1.4333	-1.0858	0.1169	-0.1096	0.0210	0.3967	-0.7575		
17	6.10	0.02	1.5473	-1.2753	0.1027	-0.0278	0.0230	0.3977	-0.8242		
18	6.58	0.0	1.6920	-1.4369	0.0791	-0.1747	0.0250	0.3936	-0.8492		
19	7.02	-0.03	1.7681	-1.5074	0.1141	-0.1197	0.0310	0.3925	-0.8526		
20	7.57	0.05	1.9560	-1.7366	0.2102	-0.0623	0.0210	0.3909	-0.8878		
21	7.91	-0.02	2.0518	-1.8717	0.1483	-0.0326	0.0200	0.3927	-0.9122		
22	8.35	0.02	2.2454	-2.1247	0.0370	-0.0908	0.0180	0.3877	-0.9462		
23	8.81	-0.05	2.3740	-2.2657	0.1007	-0.0700	0.0220	0.3871	-0.9544		
24	9.59	-0.03	2.5350	-2.5611	0.0798	-0.0267	0.0220	0.3831	-1.0103		
25	10.04	0.03	2.7617	-2.8096	0.0546	-0.0044	0.0260	0.3816	-1.0173		
26	10.41	-0.01	2.8952	-2.9964	0.0833	-0.0986	0.0210	0.3788	-1.0350		
27	10.84	0.03	3.0137	-3.1293	0.0373	-0.0012	0.0220	0.3751	-1.0384		
28	11.23	-0.02	3.1415	-3.3062	0.0515	-0.0571	0.0300	0.3708	-1.0524		
29	11.64	-0.04	3.2704	-3.4517	0.0787	-0.0922	0.0280	0.3683	-1.0554		
30	12.00	-0.05	3.4285	-3.6420	0.0280	-0.1062	0.0220	0.3607	-1.0623		
31	12.39	-0.04	3.5373	-3.7564	0.0488	-0.0533	0.0280	0.3582	-1.0619		
32	12.73	-0.04	3.6616	-3.9354	0.0644	-0.0222	0.0410	0.3570	-1.0748		
33	13.08	-0.05	3.7775	-4.1267	0.0724	-0.0554	0.0310	0.3561	-1.0924		
34	13.47	-0.04	3.9446	-4.2386	0.1269	-0.0577	0.0330	0.3512	-1.0745		
35	13.83	-0.05	4.0772	-4.4112	0.0490	0.0184	0.0360	0.3481	-1.0819		
36	14.19	-0.05	4.2000	-4.5931	0.0793	-0.0100	0.0270	0.3444	-1.0936		
37	14.52	-0.04	4.3239	-4.7217	0.1383	-0.0246	0.0280	0.3442	-1.0920		
38	14.91	-0.05	4.4695	-4.9245	0.1145	-0.0373	0.0270	0.3366	-1.1018		
39	15.28	-0.06	4.5975	-5.0507	0.0304	-0.0336	0.0280	0.3358	-1.0986		
40	15.59	-0.05	4.7127	-5.2359	0.0907	-0.0510	0.0260	0.3324	-1.1110		
41	15.92	-0.07	4.7766	-5.3624	0.0366	0.0598	0.0280	0.3319	-1.1226		
42	16.28	-0.08	4.9636	-5.6181	-0.0584	0.0528	0.0270	0.3211	-1.1319		
43	16.61	-0.08	5.0828	-5.7551	-0.0281	-0.0107	0.0190	0.3176	-1.1323		
44	16.97	-0.08	5.2514	-5.9782	-0.0185	0.0319	0.0200	0.3098	-1.1384		
45	17.31	-0.06	5.3909	-6.1434	0.0434	0.0742	0.0240	0.3045	-1.1396		
46	17.63	-0.07	5.4804	-6.2607	0.0228	0.0401	0.0250	0.3063	-1.1424		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DELI	DEL2	DEL3	DEL4	TRANSITION	
6	53	1.05	1.7	0.0	BZWF12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.97	-0.08	5.6180	-6.4213	0.0374	0.0466	0.0170	0.3026	-1.1430		
48	18.30	-0.09	5.7216	-6.5894	-0.0419	0.1586	0.0190	0.3001	-1.1517		
49	18.60	-0.09	5.8481	-6.7346	0.0075	0.0395	0.0080	0.2946	-1.1516		
50	18.95	-0.09	5.9634	-6.9030	-0.0196	0.1404	0.0180	0.2882	-1.1576		
51	19.27	-0.10	6.0881	-7.0595	-0.0544	0.0602	0.0140	0.2868	-1.1596		
52	19.60	-0.08	6.1820	-7.1710	0.0109	0.0927	0.0060	0.2808	-1.1600		
53	19.93	-0.09	6.3367	-7.2675	-0.1030	0.2532	0.0060	0.2782	-1.1469		
54	20.28	-0.08	6.4825	-7.4216	-0.0455	0.2227	0.0	0.2737	-1.1449		
55	20.62	-0.08	6.6056	-7.5711	0.0246	0.1655	-0.0060	0.2664	-1.1462		
56	20.97	-0.08	6.7499	-7.6631	0.0051	0.2092	-0.0100	0.2630	-1.1353		
57	21.30	-0.10	6.8151	-7.7874	-0.0722	0.1261	-0.0080	0.2584	-1.1427		
58	21.64	-0.07	6.9977	-7.9230	0.0558	0.1089	-0.0150	0.2532	-1.1322		
59	21.98	-0.08	7.1216	-7.9535	-0.0552	0.2502	-0.0210	0.2558	-1.1168		
60	22.30	-0.07	7.2530	-8.0374	0.0471	0.2070	-0.0130	0.2479	-1.1082		
61	22.63	-0.09	7.3637	-8.0855	-0.0212	0.0927	-0.0170	0.2463	-1.0980		
62	22.90	-0.08	7.4509	-8.0596	0.0640	0.0894	-0.0150	0.2438	-1.0817		
63	23.27	-0.08	7.6311	-8.0359	0.0491	0.0653	-0.0250	0.2438	-1.0530		
64	23.58	-0.07	7.7300	-8.1393	0.1228	0.0401	-0.0290	0.2452	-1.0530		
65	23.90	-0.10	7.8968	-8.1249	0.0294	-0.0132	-0.0330	0.2443	-1.0289		
66	24.24	-0.08	8.0270	-8.1491	0.0269	0.1263	-0.0480	0.2399	-1.0152		
67	24.57	-0.09	8.1350	-8.1975	0.1039	0.0245	-0.0530	0.2375	-1.0077		
68	24.93	-0.11	8.3010	-8.2464	-0.0883	0.1696	-0.0480	0.2310	-0.9935		
69	25.17	-0.08	8.3551	-8.2916	0.0474	0.1096	-0.0580	0.2267	-0.9924		
70	25.53	-0.09	8.4753	-8.3649	-0.0848	0.2787	-0.0440	0.2219	-0.9870		
71	25.79	-0.10	8.5764	-8.3274	-0.0072	0.1401	-0.0750	0.2163	-0.9710		
72	26.16	-0.09	8.8027	-8.3714	0.0384	0.2002	-0.0700	0.2088	-0.9510		
73	26.44	-0.10	8.9407	-8.3826	0.0007	0.2100	-0.0640	0.2028	-0.9376		
74	26.76	-0.09	9.0921	-8.3755	0.0017	0.3316	-0.0760	0.1962	-0.9212		
75	27.08	-0.10	9.2103	-8.3830	-0.0263	0.2728	-0.0870	0.1920	-0.9102		
76	27.37	-0.09	9.3631	-8.4269	0.0637	0.1978	-0.0890	0.1834	-0.9000		
77	27.69	-0.12	9.5110	-8.4560	-0.2047	0.4135	-0.0870	0.1708	-0.8891		
78	28.04	-0.10	9.6253	-8.5071	-0.1501	0.5321	-0.0910	0.1578	-0.8838		
79	28.35	-0.10	9.8369	-8.5144	-0.0791	0.4217	-0.1140	0.1490	-0.8656		
80	28.63	-0.10	9.9813	-8.5515	-0.1813	0.7287	-0.1150	0.1372	-0.8568		
81	28.96	-0.09	10.1710	-8.5611	-0.0302	0.3922	-0.1390	0.1319	-0.8417		
82	29.25	-0.11	10.2479	-8.6267	-0.2082	0.6464	-0.1310	0.1277	-0.8418		
83	29.59	-0.10	10.3698	-8.5546	-0.1902	0.6932	-0.1300	0.1107	-0.8249		
84	29.89	-0.10	10.5369	-8.6505	-0.0409	0.3412	-0.1310	0.1091	-0.8210		
85	30.24	-0.10	10.7185	-8.6217	-0.0198	0.3307	-0.1320	0.0904	-0.8044		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	53	1.05	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.01	-0.01	-0.2734	0.0014	0.0495	-0.0051	-0.1810	-0.0243	0.0035	-0.0266	-0.1461	1.0945
2	-1.38	-0.03	-0.2747	0.0014	0.0496	-0.0053	-0.1806	-0.0128	0.0021	-0.0189	-0.1679	1.4738
3	-0.82	0.0	-0.2692	0.0013	0.0491	-0.0050	-0.1824	0.0017	0.0008	-0.0127	0.4999	-7.4903
4	-0.28	-0.04	-0.2675	0.0014	0.0485	-0.0052	-0.1827	0.0113	0.0000	-0.0087	0.0044	-0.7730
5	0.28	-0.01	-0.2604	0.0012	0.0480	-0.0048	-0.1845	0.0186	-0.0002	-0.0064	-0.0108	-0.3442
6	0.79	-0.01	-0.2549	0.0012	0.0475	-0.0047	-0.1862	0.0258	-0.0008	-0.0029	-0.0329	-0.1125
7	1.30	-0.01	-0.2602	0.0012	0.0480	-0.0048	-0.1845	0.0349	-0.0022	0.0043	-0.0645	0.1240
8	1.85	-0.03	-0.3141	0.0012	0.0634	-0.0040	-0.2018	0.0511	-0.0032	0.0086	-0.0636	0.1688
9	2.32	0.01	-0.2601	0.0012	0.0475	-0.0048	-0.1845	0.0620	-0.0043	0.0136	-0.0701	0.2187
10	2.83	0.0	-0.2639	0.0013	0.0484	-0.0049	-0.1833	0.0758	-0.0057	0.0231	-0.0758	0.3042
11	3.30	0.02	-0.2583	0.0012	0.0477	-0.0046	-0.1848	0.0959	-0.0071	0.0279	-0.0740	0.2905
12	3.80	0.0	-0.2498	0.0010	0.0468	-0.0042	-0.1872	0.1086	-0.0075	0.0357	-0.0690	0.3286
13	4.26	-0.02	-0.2520	0.0012	0.0470	-0.0047	-0.1862	0.1315	-0.0090	0.0458	-0.0684	0.3484
14	4.73	0.0	-0.2494	0.0010	0.0467	-0.0042	-0.1872	0.1562	-0.0102	0.0529	-0.0656	0.3390
15	5.18	-0.07	-0.2578	0.0012	0.0476	-0.0048	-0.1846	0.1668	-0.0112	0.0614	-0.0666	0.3640
16	5.67	0.01	-0.2578	0.0012	0.0477	-0.0048	-0.1850	0.1929	-0.0125	0.0717	-0.0650	0.3716
17	6.10	0.02	-0.2532	0.0011	0.0471	-0.0045	-0.1861	0.2163	-0.0135	0.0780	-0.0626	0.3605
18	6.58	0.0	-0.2575	0.0012	0.0476	-0.0049	-0.1848	0.2329	-0.0141	0.0867	-0.0605	0.3723
19	7.02	-0.03	-0.2629	0.0012	0.0482	-0.0048	-0.1833	0.2521	-0.0150	0.0951	-0.0597	0.3772
20	7.47	0.05	-0.2660	0.0013	0.0486	-0.0049	-0.1826	0.2728	-0.0158	0.1046	-0.0579	0.3834
21	7.91	-0.02	-0.2674	0.0013	0.0487	-0.0049	-0.1821	0.2908	-0.0164	0.1121	-0.0565	0.3655
22	8.35	0.02	-0.2660	0.0013	0.0486	-0.0049	-0.1826	0.3139	-0.0172	0.1209	-0.0549	0.3851
23	8.81	-0.05	-0.2769	0.0014	0.0498	-0.0051	-0.1798	0.3384	-0.0176	0.1286	-0.0521	0.3799
24	9.59	-0.03	-0.2588	0.0012	0.0478	-0.0046	-0.1846	0.3785	-0.0184	0.1437	-0.0487	0.3797
25	10.04	0.03	-0.2590	0.0012	0.0478	-0.0046	-0.1845	0.4081	-0.0192	0.1550	-0.0470	0.3798
26	10.41	-0.01	-0.2716	0.0014	0.0492	-0.0052	-0.1811	0.4264	-0.0198	0.1621	-0.0464	0.3801
27	10.84	0.03	-0.2716	0.0014	0.0492	-0.0052	-0.1811	0.4478	-0.0202	0.1668	-0.0451	0.3725
28	11.23	-0.02	-0.2674	0.0013	0.0487	-0.0049	-0.1821	0.4623	-0.0204	0.1729	-0.0442	0.3741
29	11.64	-0.04	-0.2660	0.0013	0.0486	-0.0049	-0.1826	0.4821	-0.0205	0.1788	-0.0426	0.3710
30	12.00	-0.05	-0.2632	0.0012	0.0483	-0.0047	-0.1835	0.5017	-0.0208	0.1861	-0.0414	0.3709
31	12.39	-0.04	-0.2676	0.0013	0.0487	-0.0049	-0.1821	0.5180	-0.0205	0.1911	-0.0397	0.3689
32	12.73	-0.04	-0.2673	0.0013	0.0487	-0.0049	-0.1823	0.5375	-0.0204	0.1959	-0.0379	0.3645
33	13.08	-0.05	-0.2573	0.0011	0.0476	-0.0045	-0.1849	0.5610	-0.0200	0.2010	-0.0356	0.3583
34	13.47	-0.04	-0.2716	0.0014	0.0492	-0.0052	-0.1811	0.5684	-0.0199	0.2052	-0.0351	0.3610
35	13.83	-0.05	-0.2518	0.0010	0.0476	-0.0042	-0.1866	0.5831	-0.0196	0.2093	-0.0337	0.3589
36	14.19	-0.05	-0.2366	0.0008	0.0453	-0.0036	-0.1913	0.6017	-0.0196	0.2156	-0.0326	0.3583
37	14.52	-0.04	-0.2351	0.0008	0.0451	-0.0036	-0.1917	0.6152	-0.0194	0.2196	-0.0315	0.3569
38	14.91	-0.05	-0.2351	0.0008	0.0451	-0.0036	-0.1917	0.6364	-0.0192	0.2249	-0.0302	0.3533
39	15.28	-0.06	-0.2097	0.0005	0.0422	-0.0024	-0.2014	0.6581	-0.0187	0.2312	-0.0284	0.3513
40	15.59	-0.05	-0.2069	0.0004	0.0420	-0.0019	-0.2028	0.6730	-0.0175	0.2345	-0.0261	0.3485
41	15.92	-0.07	-0.1873	0.0001	0.0397	-0.0008	-0.2119	0.6903	-0.0170	0.2398	-0.0247	0.3474
42	16.28	-0.08	-0.1687	0.0001	0.0398	-0.0008	-0.2110	0.7204	-0.0158	0.2460	-0.0220	0.3415
43	16.61	-0.08	-0.1817	0.0	0.0390	0.0	-0.2149	0.7402	-0.0156	0.2519	-0.0211	0.3404
44	16.97	-0.08	-0.1789	0.0	0.0388	0.0	-0.2168	0.7612	-0.0145	0.2580	-0.0191	0.3390
45	17.31	-0.06	-0.1734	-0.0000	0.0381	0.0003	-0.2198	0.7818	-0.0141	0.2604	-0.0181	0.3331
46	17.63	-0.07	-0.1595	-0.0002	0.0365	0.0013	-0.2292	0.7977	-0.0142	0.2662	-0.0178	0.3337

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	53	1.05	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	17.97	-0.08	-0.1540	-0.0002	0.0360	0.0016	-0.2337	0.8099	-0.0136	0.2707	-0.0168	0.3342
48	18.30	-0.09	-0.1400	-0.0005	0.0344	0.0036	-0.2461	0.8315	-0.0136	0.2742	-0.0163	0.3297
49	18.60	-0.09	-0.1372	-0.0005	0.0341	0.0040	-0.2484	0.8494	-0.0136	0.2782	-0.0160	0.3276
50	18.95	-0.09	-0.1318	-0.0006	0.0335	0.0046	-0.2540	0.8628	-0.0139	0.2817	-0.0162	0.3265
51	19.27	-0.10	-0.1375	-0.0005	0.0342	0.0036	-0.2486	0.8875	-0.0137	0.2878	-0.0154	0.3243
52	19.60	-0.08	-0.1193	-0.0008	0.0321	0.0067	-0.2695	0.8966	-0.0133	0.2885	-0.0149	0.3217
53	19.93	-0.09	-0.1138	-0.0008	0.0315	0.0075	-0.2766	0.9162	-0.0137	0.2963	-0.0149	0.3234
54	20.28	-0.08	-0.1263	-0.0007	0.0329	0.0055	-0.2606	0.9316	-0.0139	0.3004	-0.0150	0.3225
55	20.62	-0.08	-0.0915	-0.0012	0.0290	0.0137	-0.3171	0.9434	-0.0141	0.3042	-0.0150	0.3224
56	20.97	-0.08	-0.0818	-0.0014	0.0279	0.0171	-0.3416	0.9633	-0.0140	0.3090	-0.0145	0.3208
57	21.30	-0.10	-0.0818	-0.0014	0.0279	0.0177	-0.3416	0.9785	-0.0142	0.3127	-0.0145	0.3195
58	21.64	-0.07	-0.0777	-0.0014	0.0275	0.0187	-0.3540	1.0003	-0.0149	0.3170	-0.0149	0.3169
59	21.98	-0.08	-0.0762	-0.0015	0.0273	0.0197	-0.3584	1.0099	-0.0151	0.3226	-0.0149	0.3195
60	22.30	-0.07	-0.0539	-0.0018	0.0248	0.0343	-0.4080	1.0209	-0.0152	0.3242	-0.0149	0.3175
61	22.63	-0.09	-0.0764	-0.0014	0.0273	0.0190	-0.3579	1.0228	-0.0163	0.3220	-0.0160	0.3148
62	22.90	-0.08	-0.0708	-0.0015	0.0268	0.0219	-0.3786	1.0228	-0.0168	0.3228	-0.0164	0.3156
63	23.27	-0.08	-0.0708	-0.0015	0.0268	0.0219	-0.3786	1.0238	-0.0178	0.3252	-0.0174	0.3176
64	23.58	-0.07	-0.0538	-0.0019	0.0249	0.0362	-0.4623	1.0297	-0.0187	0.3261	-0.0182	0.3167
65	23.90	-0.10	-0.0537	-0.0020	0.0248	0.0362	-0.4619	1.0401	-0.0198	0.3285	-0.0190	0.3158
66	24.24	-0.08	-0.0298	-0.0024	0.0222	0.0805	-0.7440	1.0394	-0.0204	0.3290	-0.0196	0.3166
67	24.57	-0.09	-0.0255	-0.0025	0.0216	0.1000	-0.8472	1.0437	-0.0213	0.3303	-0.0204	0.3165
68	24.93	-0.11	-0.0269	-0.0026	0.0218	0.0966	-0.8118	1.0575	-0.0212	0.3329	-0.0200	0.3148
69	25.17	-0.08	-0.0114	-0.0029	0.0201	0.2543	-1.7633	1.0714	-0.0205	0.3356	-0.0191	0.3132
70	25.53	-0.09	-0.0422	-0.0024	0.0235	0.0580	-0.5578	1.0781	-0.0211	0.3396	-0.0196	0.3150
71	25.79	-0.10	0.0083	-0.0033	0.0179	-0.3975	2.1525	1.0989	-0.0207	0.3435	-0.0189	0.3126
72	26.16	-0.09	0.0169	-0.0035	0.0169	-0.2100	1.0019	1.1081	-0.0213	0.3446	-0.0193	0.3110
73	26.44	-0.10	-0.0337	-0.0027	0.0227	0.0801	-0.6727	1.1115	-0.0216	0.3470	-0.0195	0.3122
74	26.76	-0.09	0.0310	-0.0038	0.0154	-0.1242	0.4977	1.1094	-0.0215	0.3449	-0.0194	0.3109
75	27.08	-0.10	0.0786	-0.0044	0.0101	-0.0566	0.1284	1.1297	-0.0210	0.3498	-0.0186	0.3097
76	27.37	-0.09	0.0689	-0.0043	0.0112	-0.0631	0.1620	1.1374	-0.0211	0.3515	-0.0185	0.3090
77	27.69	-0.12	0.0450	-0.0040	0.0135	-0.0889	0.3088	1.1559	-0.0191	0.3569	-0.0165	0.3087
78	28.04	-0.10	0.0789	-0.0046	0.0100	-0.0583	0.1266	1.1669	-0.0181	0.3599	-0.0155	0.3079
79	28.35	-0.10	0.0774	-0.0044	0.0102	-0.0568	0.1317	1.1986	-0.0163	0.3681	-0.0136	0.3071
80	28.63	-0.10	0.1071	-0.0050	0.0069	-0.0467	0.0643	1.2041	-0.0165	0.3692	-0.0137	0.3066
81	28.96	-0.09	0.0902	-0.0046	0.0088	-0.0515	0.0771	1.2217	-0.0158	0.3742	-0.0130	0.3063
82	29.25	-0.11	0.1071	-0.0049	0.0069	-0.0457	0.0643	1.2250	-0.0154	0.3749	-0.0126	0.3060
83	29.59	-0.10	0.1577	-0.0056	0.0012	-0.0355	0.0079	1.2234	-0.0165	0.3732	-0.0135	0.3050
84	29.89	-0.10	0.1098	-0.0048	0.0066	-0.0437	0.0600	1.2332	-0.0161	0.3754	-0.0131	0.3044
85	30.24	-0.10	0.1636	-0.0057	0.0006	-0.0348	0.0038	1.2433	-0.0156	0.3779	-0.0125	0.3039

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	53	1.05	1.7	0.0	82N2F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.01	-0.01	0.0629	0.0015	-0.0065	0.0238	-0.1040	-0.0121	0.0044	-0.0228	-0.3636	1.8869
2	-1.38	-0.03	0.0512	0.0011	-0.0032	0.0215	-0.0633	0.0098	0.0026	-0.0160	0.2653	-1.6362
3	-0.82	0.0	0.0588	0.0009	-0.0054	0.0162	-0.0920	0.0277	0.0010	-0.0101	0.0361	-0.3635
4	-0.28	-0.04	0.0579	0.0006	-0.0040	0.0112	-0.0692	0.0390	-0.0001	-0.0064	-0.0038	-0.1642
5	0.28	-0.01	0.0579	0.0005	-0.0040	0.0095	-0.0692	0.0511	-0.0008	-0.0040	-0.0166	-0.0777
6	0.79	-0.01	0.0588	0.0001	-0.0061	0.0026	-0.1039	0.0601	-0.0020	-0.0007	-0.0333	-0.0112
7	1.30	-0.01	0.0506	-0.0002	-0.0032	-0.0040	-0.0640	0.0768	-0.0034	0.0046	-0.0449	0.0598
8	1.85	-0.03	0.0534	-0.0009	-0.0028	-0.0169	-0.0526	0.0964	-0.0051	0.0098	-0.0534	0.1019
9	2.32	0.01	0.0505	-0.0003	-0.0032	-0.0059	-0.0628	0.1072	-0.0060	0.0139	-0.0560	0.1299
10	2.83	0.0	0.0556	-0.0012	-0.0012	-0.0225	-0.0211	0.1388	-0.0077	0.0221	-0.0555	0.1596
11	3.30	0.02	0.0555	-0.0015	-0.0011	-0.0279	-0.0199	0.1545	-0.0087	0.0285	-0.0563	0.1843
12	3.80	0.0	0.0619	-0.0021	-0.0013	-0.0339	-0.0206	0.1847	-0.0104	0.0379	-0.0563	0.2054
13	4.26	-0.02	0.0628	-0.0031	0.0025	-0.0494	0.0402	0.2122	-0.0119	0.0464	-0.0561	0.2187
14	4.73	0.0	0.0630	-0.0025	0.0025	-0.0495	0.0396	0.2318	-0.0125	0.0548	-0.0541	0.2366
15	5.18	-0.07	0.0531	-0.0022	0.0029	-0.0414	0.0545	0.2497	-0.0133	0.0600	-0.0535	0.2403
16	5.67	0.01	0.0688	-0.0026	0.0037	-0.0378	0.0541	0.2809	-0.0143	0.0697	-0.0509	0.2482
17	6.10	0.02	0.0747	-0.0030	0.0044	-0.0402	0.0588	0.3041	-0.0150	0.0776	-0.0495	0.2553
18	6.58	0.0	0.0645	-0.0026	0.0055	-0.0403	0.0052	0.3291	-0.0158	0.0864	-0.0481	0.2624
19	7.02	-0.03	0.0654	-0.0021	0.0041	-0.0329	0.0626	0.3413	-0.0163	0.0926	-0.0479	0.2714
20	7.47	0.05	0.0784	-0.0026	0.0039	-0.0332	0.0501	0.3663	-0.0171	0.1016	-0.0467	0.2773
21	7.91	-0.02	0.0824	-0.0030	0.0086	-0.0370	0.1038	0.3906	-0.0176	0.1109	-0.0452	0.2838
22	8.35	0.02	0.0826	-0.0024	0.0085	-0.0291	0.1032	0.4140	-0.0177	0.1199	-0.0427	0.2895
23	8.81	-0.05	0.0687	-0.0026	0.0101	-0.0378	0.1469	0.4345	-0.0182	0.1280	-0.0420	0.2946
24	9.59	-0.03	0.0802	-0.0021	0.0069	-0.0262	0.0863	0.4815	-0.0189	0.1423	-0.0393	0.2954
25	10.04	0.03	0.0931	-0.0021	0.0073	-0.0226	0.0786	0.5125	-0.0193	0.1549	-0.0376	0.3022
26	10.41	-0.01	0.0945	-0.0020	0.0110	-0.0217	0.1163	0.5351	-0.0193	0.1612	-0.0361	0.3013
27	10.84	0.03	0.0807	-0.0020	0.0125	-0.0248	0.1548	0.5531	-0.0196	0.1667	-0.0354	0.3014
28	11.23	-0.02	0.0829	-0.0015	0.0085	-0.0181	0.1028	0.5695	-0.0196	0.1727	-0.0345	0.3032
29	11.64	-0.04	0.0925	-0.0016	0.0150	-0.0178	0.1624	0.5954	-0.0199	0.1823	-0.0334	0.3062
30	12.00	-0.05	0.0909	-0.0014	0.0120	-0.0154	0.1319	0.6129	-0.0200	0.1888	-0.0326	0.3081
31	12.39	-0.04	0.0948	-0.0014	0.0109	-0.0148	0.1149	0.6256	-0.0198	0.1945	-0.0317	0.3108
32	12.73	-0.04	0.0912	-0.0014	0.0114	-0.0153	0.1249	0.6439	-0.0199	0.2004	-0.0310	0.3112
33	13.08	-0.05	0.0910	-0.0010	0.0119	-0.0110	0.1310	0.6683	-0.0193	0.2076	-0.0289	0.3109
34	13.47	-0.04	0.0927	-0.0011	0.0150	-0.0119	0.1617	0.6842	-0.0187	0.2128	-0.0273	0.3110
35	13.83	-0.05	0.0927	-0.0011	0.0150	-0.0119	0.1617	0.7078	-0.0189	0.2193	-0.0268	0.3099
36	14.19	-0.05	0.0927	-0.0011	0.0150	-0.0119	0.1617	0.7271	-0.0183	0.2239	-0.0252	0.3079
37	14.52	-0.04	0.0967	-0.0014	0.0196	-0.0150	0.2029	0.7483	-0.0178	0.2307	-0.0238	0.3084
38	14.91	-0.05	0.1070	-0.0014	0.0185	-0.0131	0.1725	0.7710	-0.0175	0.2378	-0.0227	0.3084
39	15.28	-0.06	0.1014	-0.0007	0.0108	-0.0069	0.1064	0.7815	-0.0173	0.2420	-0.0221	0.3097
40	15.59	-0.05	0.1049	-0.0014	0.0161	-0.0138	0.1530	0.8003	-0.0169	0.2493	-0.0211	0.3115
41	15.92	-0.07	0.1025	-0.0013	0.0145	-0.0132	0.1410	0.8155	-0.0170	0.2543	-0.0208	0.3119
42	16.28	-0.08	0.1064	-0.0010	0.0134	-0.0099	0.1255	0.8414	-0.0165	0.2610	-0.0196	0.3102
43	16.61	-0.08	0.1121	-0.0006	0.0153	-0.0058	0.1361	0.8584	-0.0162	0.2660	-0.0189	0.3099
44	16.97	-0.08	0.1107	-0.0006	0.0180	-0.0059	0.1625	0.8843	-0.0159	0.2748	-0.0180	0.3107
45	17.31	-0.06	0.1238	-0.0006	0.0177	-0.0052	0.1434	0.9005	-0.0159	0.2797	-0.0177	0.3106
46	17.63	-0.07	0.1187	-0.0005	0.0151	-0.0046	0.1277	0.9224	-0.0157	0.2851	-0.0171	0.3090

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6	5.1	1.05	1.7	0.0	82W2F12	16.750	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	17.97	-0.08	0.1200	-0.0005	0.0188	-0.0046	0.1565	0.9378	-0.0158	0.2885	-0.0169	0.3076
48	18.30	-0.09	0.1108	-0.0003	0.0179	-0.0032	0.1617	0.9339	-0.0159	0.2938	-0.0167	0.3080
49	18.60	-0.09	0.1178	-0.0000	0.0235	-0.0004	0.1999	0.9764	-0.0160	0.2995	-0.0164	0.3067
50	18.95	-0.09	0.1226	-0.0006	0.0204	-0.0049	0.1668	0.9938	-0.0160	0.3035	-0.0161	0.3053
51	19.27	-0.10	0.1215	0.0000	0.0232	0.0004	0.1908	1.0105	-0.0159	0.3092	-0.0158	0.3060
52	19.60	-0.08	0.1283	-0.0004	0.0223	-0.0031	0.1742	1.0243	-0.0158	0.3123	-0.0154	0.3049
53	19.93	-0.09	0.1213	0.0004	0.0174	0.0033	0.1436	1.0371	-0.0157	0.3150	-0.0152	0.3037
54	20.28	-0.08	0.1286	0.0004	0.0223	0.0035	0.1738	1.0591	-0.0155	0.3207	-0.0146	0.3028
55	20.62	-0.08	0.1366	0.0004	0.0259	0.0029	0.1877	1.0806	-0.0156	0.3273	-0.0144	0.3029
56	20.97	-0.08	0.1304	0.0008	0.0259	0.0065	0.1990	1.0925	-0.0152	0.3308	-0.0139	0.3028
57	21.30	-0.10	0.1373	0.0005	0.0253	0.0036	0.1846	1.1075	-0.0150	0.3350	-0.0136	0.3025
58	21.64	-0.07	0.1461	0.0009	0.0275	0.0062	0.1881	1.1212	-0.0150	0.3407	-0.0134	0.3039
59	21.98	-0.08	0.1372	0.0009	0.0255	0.0069	0.1889	1.1321	-0.0151	0.3418	-0.0134	0.3020
60	22.30	-0.07	0.1322	0.0012	0.0232	0.0095	0.1759	1.1449	-0.0154	0.3448	-0.0135	0.3012
61	22.63	-0.09	0.1388	0.0019	0.0302	0.0140	0.2179	1.1557	-0.0148	0.3489	-0.0128	0.3019
62	22.90	-0.08	0.1427	0.0013	0.0349	0.0091	0.2449	1.1667	-0.0154	0.3480	-0.0132	0.2982
63	23.27	-0.08	0.1381	0.0018	0.0316	0.0134	0.2289	1.1703	-0.0156	0.3497	-0.0134	0.2988
64	23.58	-0.07	0.1500	0.0023	0.0341	0.0153	0.2272	1.1849	-0.0156	0.3522	-0.0132	0.2973
65	23.90	-0.10	0.1485	0.0028	0.0310	0.0192	0.2086	1.1933	-0.0159	0.3549	-0.0134	0.2974
66	24.24	-0.08	0.1600	0.0028	0.0335	0.0178	0.2095	1.2048	-0.0156	0.3572	-0.0129	0.2965
67	24.57	-0.09	0.1656	0.0034	0.0354	0.0208	0.2137	1.2164	-0.0154	0.3592	-0.0127	0.2953
68	24.93	-0.11	0.1602	0.0034	0.0335	0.0215	0.2090	1.2215	-0.0152	0.3620	-0.0124	0.2964
69	25.17	-0.08	0.1638	0.0028	0.0324	0.0174	0.1977	1.2305	-0.0148	0.3634	-0.0121	0.2953
70	25.53	-0.09	0.1575	0.0024	0.0319	0.0156	0.2024	1.2400	-0.0145	0.3662	-0.0117	0.2953
71	25.79	-0.10	0.1638	0.0025	0.0325	0.0153	0.1983	1.2445	-0.0143	0.3679	-0.0115	0.2956
72	26.16	-0.09	0.1485	0.0024	0.0304	0.0165	0.2046	1.2612	-0.0130	0.3721	-0.0103	0.2951
73	26.44	-0.10	0.1625	0.0030	0.0294	0.0188	0.1812	1.2641	-0.0127	0.3733	-0.0100	0.2953
74	26.76	-0.09	0.1630	0.0030	0.0352	0.0184	0.2160	1.2811	-0.0120	0.3774	-0.0094	0.2946
75	27.08	-0.10	0.1701	0.0033	0.0344	0.0194	0.2021	1.2893	-0.0117	0.3822	-0.0091	0.2965
76	27.37	-0.09	0.1687	0.0033	0.0371	0.0196	0.2200	1.3065	-0.0109	0.3870	-0.0083	0.2963
77	27.69	-0.12	0.1648	0.0035	0.0325	0.0215	0.1973	1.3204	-0.0100	0.3905	-0.0076	0.2957
78	28.04	-0.10	0.1587	0.0039	0.0319	0.0249	0.2009	1.3248	-0.0092	0.3947	-0.0070	0.2980
79	28.35	-0.10	0.1681	0.0036	0.0328	0.0217	0.1952	1.3456	-0.0092	0.3985	-0.0068	0.2961
80	28.63	-0.10	0.1710	0.0046	0.0344	0.0272	0.2011	1.3504	-0.0086	0.4022	-0.0064	0.2978
81	28.96	-0.09	0.1778	0.0048	0.0343	0.0273	0.1932	1.3592	-0.0083	0.4053	-0.0061	0.2982
82	29.25	-0.11	0.1674	0.0038	0.0350	0.0230	0.2090	1.3695	-0.0083	0.4067	-0.0061	0.2969
83	29.59	-0.10	0.1796	0.0048	0.0373	0.0270	0.2074	1.3735	-0.0070	0.4090	-0.0051	0.2978
84	29.89	-0.10	0.1699	0.0048	0.0372	0.0285	0.2190	1.3791	-0.0072	0.4110	-0.0052	0.2980
85	30.24	-0.10	0.1699	0.0044	0.0372	0.0262	0.2190	1.3832	-0.0062	0.4096	-0.0045	0.2961

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	54	1.10	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.80	0.0	-0.5814	0.4020	0.0688	0.0667	0.0190	0.3866	-0.6915		
2	-2.65	-0.04	-0.5526	0.3347	-0.0394	0.0442	0.0240	0.3819	-0.6057		
3	-2.02	-0.01	-0.4157	0.2391	0.0548	0.0673	0.0220	0.3824	-0.5751		
4	-1.39	0.0	-0.2836	0.1490	0.1992	0.0861	0.0210	0.3837	-0.5255		
5	-0.85	0.0	-0.1531	0.1303	0.1244	0.0188	0.0310	0.3922	-0.8513		
6	-0.28	0.02	-0.0350	0.1436	0.1778	0.0701	0.0240	0.4024	-3.6820		
7	0.25	-0.04	0.0406	0.1201	0.1418	0.0075	0.0250	0.4010	2.9596		
8	0.79	0.0	0.1425	0.1235	0.1201	-0.0261	0.0230	0.4111	0.8067		
9	1.32	-0.02	0.2583	0.1054	0.1188	-0.0493	0.0200	0.4092	0.4080		
10	1.86	-0.05	0.3868	0.0313	0.2080	-0.1262	0.0260	0.4056	0.0810		
11	2.33	-0.03	0.5018	-0.0806	0.1520	0.0532	0.0230	0.3996	-0.1607		
12	2.82	0.01	0.6376	-0.1678	0.1334	0.0052	0.0310	0.4037	-0.2631		
13	3.31	-0.05	0.7492	-0.2620	0.1242	-0.0219	0.0320	0.4075	-0.3497		
14	3.78	-0.03	0.8214	-0.3261	0.0573	0.0318	0.0230	0.4018	-0.3970		
15	4.26	0.05	0.9510	-0.4525	0.2187	-0.1872	0.0290	0.4059	-0.4758		
16	4.72	-0.09	1.1397	-0.6248	-0.0077	0.0558	0.0240	0.3974	-0.5482		
17	5.19	-0.01	1.2220	-0.7340	0.2287	-0.0552	0.0250	0.4019	-0.6006		
18	5.64	-0.05	1.3748	-0.8664	0.1274	-0.1073	0.0210	0.4051	-0.6305		
19	6.11	0.04	1.5518	-1.0877	0.1778	-0.1109	0.0210	0.4206	-0.7009		
20	6.56	0.07	1.6197	-1.1687	0.0730	0.0678	0.0280	0.4078	-0.7216		
21	7.03	-0.03	1.7328	-1.3550	0.0076	0.0853	0.0300	0.4172	-0.7820		
22	7.48	-0.09	1.9137	-1.5124	0.0455	-0.1407	0.0290	0.4128	-0.7903		
23	7.93	-0.02	2.0457	-1.7222	0.1177	0.0472	0.0290	0.4165	-0.8418		
24	8.36	0.01	2.2147	-1.9407	0.1838	-0.0993	0.0190	0.4220	-0.8763		
25	8.81	0.01	2.3148	-2.0729	0.0619	-0.0137	0.0290	0.4173	-0.8955		
26	9.19	0.0	2.4071	-2.1991	0.1152	-0.0083	0.0170	0.4100	-0.9136		
27	9.60	-0.07	2.5625	-2.4336	0.0807	-0.0800	0.0220	0.4124	-0.9497		
28	10.05	-0.03	2.7168	-2.6007	0.1153	-0.0204	0.0170	0.4078	-0.9573		
29	10.42	-0.11	2.8410	-2.8056	0.0667	-0.1234	0.0240	0.4064	-0.9875		
30	10.86	0.0	2.9174	-2.8935	0.0013	-0.0478	0.0200	0.4048	-0.9918		
31	11.24	-0.02	3.0657	-2.9841	-0.0031	0.0553	0.0250	0.4017	-0.9747		
32	11.65	-0.01	3.2057	-3.2241	0.0582	-0.1685	0.0210	0.3953	-1.0064		
33	12.01	0.02	3.3685	-3.4380	0.2122	-0.0601	0.0210	0.3889	-1.0206		
34	12.38	-0.05	3.4243	-3.5301	0.1139	0.0435	0.0280	0.3877	-1.0309		
35	12.74	-0.07	3.5317	-3.6636	0.0389	0.0195	0.0310	0.3803	-1.0373		
36	13.11	-0.07	3.7876	-3.9338	-0.0966	0.0042	0.0320	0.3855	-1.0386		
37	13.46	0.02	3.8333	-4.0358	0.2518	-0.1195	0.0250	0.3809	-1.0528		
38	13.83	-0.02	3.9982	-4.1956	0.0660	-0.0444	0.0300	0.3803	-1.0494		
39	14.20	0.0	4.0686	-4.3062	0.0894	0.0048	0.0290	0.3728	-1.0584		
40	14.54	-0.02	4.2295	-4.5205	0.0208	-0.0081	0.0260	0.3788	-1.0688		
41	14.92	-0.05	4.3288	-4.6585	-0.0230	0.0172	0.0320	0.3732	-1.0762		
42	15.25	-0.06	4.4616	-4.7795	0.0911	0.0465	0.0320	0.3753	-1.0712		
43	15.63	-0.08	4.5462	-5.0079	0.0708	0.0549	0.0260	0.3714	-1.0896		
44	15.96	-0.08	4.7223	-5.0824	0.0728	0.0141	0.0250	0.3665	-1.0763		
45	16.31	-0.06	4.8726	-5.2638	0.0276	-0.0056	0.0260	0.3625	-1.0803		
46	16.64	-0.04	5.0178	-5.5052	0.0416	-0.0092	0.0260	0.3540	-1.0971		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	CEL3	DEL4	TRANSITION	
6	54	1.10	1.7	0.0	B2N2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
47	16.98	-0.02	5.0855	-5.5939	0.0745	0.0457	0.0170	0.3500	-1.1000		
48	17.31	-0.03	5.2263	-5.8460	-0.0052	0.1503	0.0150	0.3480	-1.1186		
49	17.63	-0.09	5.3841	-5.9709	-0.0391	0.1667	0.0140	0.3407	-1.1090		
50	17.97	-0.06	5.4940	-6.1568	0.0295	0.1617	0.0070	0.3336	-1.1206		
51	18.31	-0.06	5.6291	-6.2389	0.0191	0.1002	0.0010	0.3369	-1.1083		
52	18.64	-0.08	5.7286	-6.3472	-0.0742	0.1409	0.0	0.3293	-1.1080		
53	18.97	-0.07	5.8376	-6.4789	-0.0228	0.0829	0.0040	0.3223	-1.1099		
54	19.30	-0.06	5.9894	-6.6494	0.0163	0.1632	0.0040	0.3064	-1.1102		
55	19.63	-0.08	6.0973	-6.7475	-0.0534	0.1207	-0.0070	0.2986	-1.1066		
56	19.95	-0.06	6.1712	-6.8449	0.0026	0.1633	-0.0010	0.2914	-1.1092		
57	20.32	-0.08	6.3403	-6.9746	-0.0126	0.2296	-0.0080	0.2798	-1.1001		
58	20.64	-0.06	6.4007	-7.0602	0.0187	0.1878	-0.0090	0.2755	-1.1030		
59	21.00	-0.07	6.5709	-7.1306	-0.0587	0.2311	-0.0180	0.2726	-1.0852		
60	21.34	-0.08	6.6658	-7.2024	-0.1069	0.2226	-0.0210	0.2714	-1.0805		
61	21.69	-0.09	6.8051	-7.3234	-0.0847	0.1676	-0.0260	0.2727	-1.0762		
62	21.99	-0.08	6.8717	-7.3127	-0.0187	0.2821	-0.0240	0.2682	-1.0642		
63	22.31	-0.08	7.0730	-7.4775	0.0162	0.0553	-0.0310	0.2722	-1.0572		
64	22.66	-0.06	7.2116	-7.4565	0.0730	0.2928	-0.0290	0.2770	-1.0340		
65	22.94	-0.08	7.2958	-7.4455	0.0205	0.1623	-0.0350	0.2683	-1.0205		
66	23.30	-0.08	7.4378	-7.5233	0.0433	0.1244	-0.0550	0.2727	-0.9981		
67	23.61	-0.09	7.5591	-7.4722	0.0221	0.0561	-0.0640	0.2617	-0.9885		
68	23.94	-0.08	7.6484	-7.4162	0.0353	0.1516	-0.0630	0.2596	-0.9696		
69	24.26	-0.09	7.7545	-7.4527	-0.0111	0.1805	-0.0560	0.2558	-0.9611		
70	24.58	-0.10	7.8281	-7.5767	-0.0424	0.1013	-0.0560	0.2508	-0.9679		
71	24.94	-0.09	8.0045	-7.5027	-0.0052	0.3062	-0.0700	0.2456	-0.9373		
72	25.19	-0.07	8.0395	-7.5039	-0.0222	0.3910	-0.0670	0.2420	-0.9334		
73	25.57	-0.08	8.2580	-7.6187	0.0569	0.2023	-0.0800	0.2383	-0.9226		
74	25.84	-0.11	8.4012	-7.5852	-0.1457	0.3959	-0.0650	0.2507	-0.9029		
75	26.18	-0.09	8.5491	-7.6313	0.0598	0.3052	-0.1010	0.2392	-0.8926		
76	26.49	-0.09	8.7453	-7.6820	-0.1724	0.7763	-0.0750	0.2426	-0.8784		
77	26.78	-0.10	8.8473	-7.6609	-0.1995	0.7762	-0.0860	0.2396	-0.8659		
78	27.09	-0.09	9.0052	-7.7309	-0.2289	0.8923	-0.0740	0.2319	-0.8585		
79	27.42	-0.10	9.0806	-7.7805	-0.0998	0.5696	-0.0810	0.2286	-0.8568		
80	27.74	-0.11	9.2815	-7.8557	-0.2548	0.7106	-0.0830	0.2128	-0.8464		
81	28.03	-0.11	9.3570	-7.8534	-0.4210	1.1154	-0.0820	0.2026	-0.8393		
82	28.35	-0.07	9.5434	-7.8614	-0.1573	1.0821	-0.1250	0.1958	-0.8238		
83	28.64	-0.10	9.6286	-7.9238	-0.1622	0.6390	-0.1280	0.1856	-0.8229		
84	28.96	-0.11	9.8060	-7.9952	-0.1762	0.5636	-0.1400	0.1773	-0.8153		
85	29.27	-0.09	9.9215	-8.1259	-0.1246	0.6674	-0.1550	0.1620	-0.8190		
86	29.59	-0.11	10.0666	-8.1320	-0.2636	0.7519	-0.1530	0.1560	-0.8078		
87	29.91	-0.10	10.1925	-8.1423	-0.0418	0.2675	-0.1180	0.1409	-0.7988		
88	30.23	-0.08	10.3078	-8.1877	-0.1007	0.7369	-0.1320	0.1463	-0.7943		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	54	1.10	1.7	0.0	B2MZF12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.80	0.0	-0.2535	0.0010	0.0468	-0.0041	-0.1847	-0.0554	0.0051	-0.0399	-0.0920	0.7195
2	-2.65	-0.04	-0.2411	0.0009	0.0455	-0.0037	-0.1886	-0.0474	0.0049	-0.0355	-0.1034	0.7488
3	-2.02	-0.01	-0.2357	0.0008	0.0450	-0.0036	-0.1908	-0.0320	0.0033	-0.0291	-0.1031	0.9082
4	-1.39	0.0	-0.2454	0.0009	0.0460	-0.0039	-0.1876	-0.0195	0.0020	-0.0215	-0.1051	1.1024
5	-0.85	0.0	-0.2537	0.0010	0.0470	-0.0041	-0.1851	-0.0054	0.0004	-0.0149	-0.0741	2.7591
6	-0.28	0.02	-0.2452	0.0010	0.0459	-0.0041	-0.1872	-0.0009	-0.0004	-0.0119	0.4444	13.2221
7	0.25	-0.04	-0.2409	0.0009	0.0454	-0.0039	-0.1886	0.0063	-0.0037	-0.0096	-0.1190	-1.5239
8	0.74	0.0	-0.2450	0.0010	0.0459	-0.0041	-0.1872	0.0160	-0.0012	-0.0071	-0.0750	-0.4418
9	1.32	-0.02	-0.2462	0.0010	0.0461	-0.0043	-0.1871	0.0278	-0.0023	-0.0019	-0.0845	-0.0697
10	1.90	-0.03	-0.2449	0.0011	0.0459	-0.0045	-0.1874	0.0331	-0.0029	0.0035	-0.0876	0.1066
11	2.33	-0.03	-0.2448	0.0010	0.0458	-0.0041	-0.1872	0.0507	-0.0050	0.0124	-0.0986	0.2445
12	2.82	0.01	-0.3004	0.0010	0.0613	-0.0035	-0.2039	0.0673	-0.0065	0.0200	-0.0966	0.2976
13	3.31	-0.05	-0.2476	0.0011	0.0462	-0.0044	-0.1866	0.0791	-0.0075	0.0253	-0.0948	0.3193
14	3.78	-0.03	-0.2391	0.0009	0.0452	-0.0040	-0.1892	0.0922	-0.0082	0.0302	-0.0895	0.3278
15	4.26	0.05	-0.2820	0.0012	0.0547	-0.0044	-0.1939	0.1107	-0.0089	0.0352	-0.0804	0.3179
16	4.72	-0.09	-0.2493	0.0011	0.0464	-0.0044	-0.1862	0.1377	-0.0108	0.0483	-0.0784	0.3506
17	5.19	-0.01	-0.2478	0.0010	0.0462	-0.0042	-0.1866	0.1482	-0.0114	0.0538	-0.0772	0.3629
18	5.64	-0.05	-0.2534	0.0011	0.0469	-0.0045	-0.1849	0.1734	-0.0123	0.0629	-0.0712	0.3626
19	6.11	0.04	-0.2589	0.0012	0.0475	-0.0048	-0.1836	0.1962	-0.0129	0.0706	-0.0657	0.3597
20	6.56	0.07	-0.2476	0.0010	0.0462	-0.0042	-0.1866	0.2050	-0.0139	0.0773	-0.0680	0.3771
21	7.03	-0.03	-0.2533	0.0011	0.0468	-0.0043	-0.1847	0.2253	-0.0147	0.0864	-0.0652	0.3834
22	7.48	-0.09	-0.2616	0.0012	0.0478	-0.0048	-0.1828	0.2506	-0.0155	0.0950	-0.0620	0.3791
23	7.93	-0.02	-0.2548	0.0011	0.0470	-0.0045	-0.1844	0.2722	-0.0160	0.1030	-0.0588	0.3784
24	8.36	0.01	-0.3212	0.0013	0.0636	-0.0042	-0.1981	0.2954	-0.0173	0.1146	-0.0587	0.3880
25	8.81	0.01	-0.2629	0.0013	0.0475	-0.0049	-0.1822	0.3195	-0.0172	0.1225	-0.0538	0.3833
26	9.19	0.0	-0.2585	0.0012	0.0474	-0.0046	-0.1832	0.3272	-0.0178	0.1275	-0.0544	0.3897
27	9.60	-0.07	-0.2530	0.0011	0.0468	-0.0045	-0.1850	0.3563	-0.0186	0.1370	-0.0522	0.3846
28	10.05	-0.03	-0.2585	0.0012	0.0474	-0.0046	-0.1832	0.3775	-0.0192	0.1466	-0.0508	0.3883
29	10.42	-0.11	-0.2627	0.0013	0.0479	-0.0049	-0.1822	0.4055	-0.0198	0.1550	-0.0489	0.3823
30	10.86	0.0	-0.2529	0.0011	0.0467	-0.0043	-0.1848	0.4277	-0.0200	0.1596	-0.0467	0.3732
31	11.24	-0.02	-0.2461	0.0010	0.0460	-0.0043	-0.1869	0.4370	-0.0206	0.1648	-0.0471	0.3771
32	11.65	-0.01	-0.2610	0.0013	0.0476	-0.0050	-0.1825	0.4547	-0.0208	0.1708	-0.0457	0.3757
33	12.01	0.02	-0.2583	0.0012	0.0473	-0.0046	-0.1832	0.4817	-0.0204	0.1781	-0.0424	0.3697
34	12.38	-0.05	-0.2449	0.0010	0.0459	-0.0041	-0.1874	0.4957	-0.0205	0.1826	-0.0414	0.3683
35	12.74	-0.07	-0.2479	0.0011	0.0463	-0.0044	-0.1868	0.5093	-0.0202	0.1866	-0.0397	0.3664
36	13.11	-0.07	-0.2409	0.0010	0.0454	-0.0042	-0.1866	0.5410	-0.0199	0.1959	-0.0368	0.3620
37	13.46	0.02	-0.2450	0.0010	0.0460	-0.0041	-0.1876	0.5418	-0.0196	0.1971	-0.0363	0.3638
38	13.83	-0.02	-0.2394	0.0009	0.0452	-0.0040	-0.1889	0.5636	-0.0193	0.2033	-0.0342	0.3607
39	14.20	0.0	-0.2311	0.0008	0.0443	-0.0035	-0.1917	0.5806	-0.0194	0.2081	-0.0335	0.3584
40	14.54	-0.02	-0.2173	0.0006	0.0428	-0.0028	-0.1969	0.5973	-0.0189	0.2144	-0.0316	0.3590
41	14.92	-0.05	-0.2133	0.0006	0.0423	-0.0028	-0.1984	0.6120	-0.0187	0.2183	-0.0306	0.3567
42	15.25	-0.06	-0.2186	0.0007	0.0425	-0.0032	-0.1961	0.6213	-0.0184	0.2206	-0.0296	0.3551
43	15.63	-0.08	-0.2034	0.0004	0.0412	-0.0020	-0.2027	0.6456	-0.0171	0.2272	-0.0266	0.3520
44	15.96	-0.08	-0.1938	0.0003	0.0401	-0.0015	-0.2070	0.6588	-0.0170	0.2323	-0.0259	0.3526
45	16.31	-0.06	-0.1939	0.0003	0.0402	-0.0015	-0.2073	0.6824	-0.0167	0.2366	-0.0245	0.3470
46	16.64	-0.04	-0.1718	-0.0001	0.0376	0.0006	-0.2192	0.7117	-0.0150	0.2441	-0.0211	0.3430

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	54	1-10	1-7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CBI2	XCPF2	YCPF2
47	16.98	-0.02	-0.1786	0.0	0.0384	0.0	-0.2149	0.7224	-0.0144	0.2483	-0.0200	0.3437
48	17.31	-0.03	-0.1567	-0.0002	0.0360	0.0016	-0.2296	0.7569	-0.0134	0.2551	-0.0177	0.3370
49	17.63	-0.09	-0.1384	-0.0005	0.0340	0.0040	-0.2449	0.7801	-0.0127	0.2616	-0.0163	0.3354
50	17.97	-0.06	-0.1348	-0.0006	0.0335	0.0045	-0.2484	0.7951	-0.0115	0.2633	-0.0145	0.3312
51	18.31	-0.06	-0.1348	-0.0006	0.0335	0.0045	-0.2484	0.8123	-0.0117	0.2682	-0.0145	0.3301
52	18.64	-0.08	-0.1428	-0.0005	0.0344	0.0035	-0.2410	0.8247	-0.0110	0.2716	-0.0134	0.3293
53	18.97	-0.07	-0.1155	-0.0009	0.0313	0.0078	-0.2711	0.8419	-0.0107	0.2756	-0.0127	0.3274
54	19.30	-0.06	-0.0963	-0.0012	0.0292	0.0125	-0.3033	0.8574	-0.0100	0.2800	-0.0117	0.3265
55	19.63	-0.08	-0.0936	-0.0012	0.0289	0.0128	-0.3089	0.8690	-0.0104	0.2826	-0.0120	0.3252
56	19.95	-0.06	-0.1074	-0.0009	0.0304	0.0088	-0.2832	0.8795	-0.0104	0.2868	-0.0119	0.3261
57	20.32	-0.08	-0.0802	-0.0014	0.0275	0.0175	-0.3426	0.9000	-0.0107	0.2909	-0.0119	0.3232
58	20.64	-0.06	-0.0816	-0.0013	0.0276	0.0165	-0.3384	0.9068	-0.0110	0.2938	-0.0122	0.3240
59	21.00	-0.07	-0.0473	-0.0019	0.0237	0.0402	-0.5019	0.9305	-0.0110	0.3005	-0.0118	0.3229
60	21.34	-0.08	-0.0665	-0.0016	0.0259	0.0248	-0.3901	0.9501	-0.0114	0.3088	-0.0120	0.3229
61	21.69	-0.09	-0.0487	-0.0018	0.0239	0.0380	-0.4902	0.9568	-0.0109	0.3067	-0.0114	0.3206
62	21.99	-0.08	-0.0487	-0.0018	0.0239	0.0380	-0.4902	0.9663	-0.0112	0.3094	-0.0116	0.3202
63	22.31	-0.08	-0.0389	-0.0020	0.0227	0.0527	-0.5845	0.9805	-0.0112	0.3139	-0.0115	0.3202
64	22.66	-0.06	-0.0197	-0.0023	0.0205	0.1193	-1.0424	0.9803	-0.0132	0.3143	-0.0135	0.3206
65	22.94	-0.08	-0.0022	-0.0026	0.0180	-1.2043	8.1968	0.9856	-0.0130	0.3141	-0.0132	0.3187
66	23.30	-0.08	0.0159	-0.0030	0.0165	-0.1886	1.0376	0.9908	-0.0130	0.3153	-0.0132	0.3182
67	23.61	-0.09	0.0241	-0.0031	0.0156	-0.1280	0.6486	0.9982	-0.0135	0.3175	-0.0136	0.3181
68	23.94	-0.08	0.0351	-0.0033	0.0144	-0.0954	0.4101	0.9931	-0.0149	0.3174	-0.0150	0.3196
69	24.26	-0.09	0.0134	-0.0031	0.0169	-0.2313	1.2566	1.0043	-0.0150	0.3189	-0.0150	0.3175
70	24.58	-0.10	0.0065	-0.0029	0.0177	-0.4538	2.7178	1.0088	-0.0154	0.3222	-0.0153	0.3193
71	24.94	-0.09	0.0272	-0.0033	0.0154	-0.1231	0.5648	1.0180	-0.0168	0.3237	-0.0165	0.3180
72	25.19	-0.07	0.0204	-0.0032	0.0161	-0.1593	0.7491	1.0244	-0.0164	0.3251	-0.0161	0.3173
73	25.57	-0.08	0.0301	-0.0035	0.0150	-0.1163	0.4993	1.0306	-0.0177	0.3276	-0.0172	0.3179
74	25.84	-0.11	0.0303	-0.0036	0.0150	-0.1204	0.4949	1.0395	-0.0177	0.3286	-0.0171	0.3161
75	26.18	-0.09	0.0398	-0.0038	0.0140	-0.0955	0.3508	1.0560	-0.0171	0.3343	-0.0162	0.3166
76	26.49	-0.09	0.0071	-0.0035	0.0177	-0.4999	2.4881	1.0601	-0.0169	0.3330	-0.0159	0.3142
77	26.78	-0.10	0.0770	-0.0048	0.0098	-0.0623	0.1267	1.0659	-0.0171	0.3345	-0.0160	0.3138
78	27.09	-0.09	0.0442	-0.0042	0.0134	-0.0961	0.3038	1.0748	-0.0177	0.3358	-0.0165	0.3125
79	27.42	-0.10	0.0302	-0.0038	0.0151	-0.1258	0.4988	1.0913	-0.0178	0.3409	-0.0164	0.3124
80	27.74	-0.11	0.0165	-0.0035	0.0166	-0.2151	1.0059	1.0999	-0.0194	0.3432	-0.0177	0.3120
81	28.03	-0.11	0.0229	-0.0047	0.0249	-0.2074	1.0887	1.1000	-0.0188	0.3434	-0.0171	0.3122
82	28.35	-0.07	0.1459	-0.0065	0.0066	-0.0445	0.0453	1.1072	-0.0177	0.3459	-0.0160	0.3124
83	28.64	-0.10	0.1731	-0.0063	-0.0010	-0.0364	-0.0059	1.1241	-0.0180	0.3491	-0.0160	0.3105
84	28.96	-0.11	0.1306	-0.0054	0.0038	-0.0413	0.0292	1.1563	-0.0178	0.3581	-0.0154	0.3097
85	29.27	-0.09	0.1640	-0.0060	0.0000	-0.0366	0.0003	1.1651	-0.0175	0.3602	-0.0150	0.3092
86	29.54	-0.11	0.2033	-0.0077	-0.0111	-0.0292	-0.0420	1.1726	-0.0171	0.3617	-0.0146	0.3085
87	29.91	-0.10	0.0811	-0.0044	0.0094	-0.0542	0.1162	1.1835	-0.0174	0.3664	-0.0147	0.3096
88	30.23	-0.08	0.1254	-0.0053	0.0044	-0.0423	0.0350	1.1899	-0.0179	0.3674	-0.0151	0.3088

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	54	1.10	1.7	0.0	B2H2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.80	0.0	0.0520	0.0014	-0.0066	0.0279	-0.1264	-0.0513	0.0064	-0.0338	-0.1247	0.6587
2	-2.65	-0.04	0.0535	0.0018	-0.0093	0.0346	-0.1733	-0.0368	0.0062	-0.0302	-0.1684	0.8196
3	-2.02	-0.01	0.0500	0.0018	-0.0088	0.0370	-0.1768	-0.0149	0.0041	-0.0236	-0.2751	1.5815
4	-1.39	0.0	0.0499	0.0014	-0.0088	0.0291	-0.1758	0.0033	0.0028	-0.0181	0.8635	-5.4850
5	-0.85	0.0	0.0530	0.0014	-0.0085	0.0274	-0.1611	0.0261	0.0009	-0.0114	0.0364	-0.4369
6	-0.28	0.02	0.0518	0.0012	-0.0065	0.0232	-0.1262	0.0326	-0.0003	-0.0089	-0.0092	-0.2741
7	0.25	-0.04	0.0514	0.0011	-0.0059	0.0214	-0.1143	0.0435	-0.0012	-0.0060	-0.0276	-0.1380
8	0.79	0.0	0.0513	0.0009	-0.0058	0.0175	-0.1132	0.0531	-0.0019	-0.0041	-0.0367	-0.0773
9	1.32	-0.02	0.0565	0.0002	-0.0040	0.0044	-0.0703	0.0714	-0.0039	0.0020	-0.0553	0.0279
10	1.86	-0.05	0.0628	0.0001	-0.0040	0.0016	-0.0633	0.0894	-0.0049	0.0075	-0.0548	0.0838
11	2.33	-0.03	0.0564	0.0001	-0.0035	0.0027	-0.0693	0.1121	-0.0066	0.0146	-0.0589	0.1298
12	2.82	0.01	0.0525	-0.0002	-0.0028	-0.0038	-0.0535	0.1321	-0.0082	0.0216	-0.0621	0.1636
13	3.31	-0.05	0.0650	-0.0005	-0.0024	-0.0085	-0.0376	0.1517	-0.0094	0.0274	-0.0620	0.1809
14	3.78	-0.03	0.0547	-0.0005	-0.0012	-0.0091	-0.0214	0.1680	-0.0101	0.0324	-0.0601	0.1927
15	4.26	0.05	0.0627	-0.0014	0.0017	-0.0223	0.0270	0.1861	-0.0111	0.0395	-0.0596	0.2123
16	4.72	-0.09	0.0639	-0.0008	-0.0003	-0.0133	-0.0048	0.2136	-0.0121	0.0483	-0.0569	0.2260
17	5.19	-0.01	0.0660	-0.0015	0.0013	-0.0235	0.0196	0.2349	-0.0132	0.0564	-0.0562	0.2400
18	5.64	-0.05	0.0622	-0.0017	0.0023	-0.0281	0.0374	0.2583	-0.0139	0.0643	-0.0540	0.2488
19	6.11	0.04	0.0637	-0.0020	0.0054	-0.0314	0.0852	0.2875	-0.0146	0.0722	-0.0508	0.2512
20	6.56	0.07	0.0645	-0.0017	0.0040	-0.0271	0.0619	0.3022	-0.0154	0.0789	-0.0511	0.2611
21	7.03	-0.03	0.0678	-0.0020	0.0037	-0.0295	0.0545	0.3247	-0.0164	0.0877	-0.0499	0.2659
22	7.48	-0.09	0.0623	-0.0021	0.0081	-0.0337	0.1294	0.3488	-0.0169	0.0960	-0.0484	0.2753
23	7.93	-0.02	0.0664	-0.0021	0.0063	-0.0316	0.0953	0.3742	-0.0175	0.1037	-0.0467	0.2771
24	8.36	0.01	0.0774	-0.0025	0.0095	-0.0329	0.1226	0.4000	-0.0181	0.1151	-0.0452	0.2877
25	8.81	0.01	0.0676	-0.0023	0.0099	-0.0348	0.1468	0.4271	-0.0181	0.1218	-0.0425	0.2852
26	9.19	0.0	0.0720	-0.0030	0.0132	-0.0417	0.1832	0.4397	-0.0185	0.1278	-0.0421	0.2907
27	9.60	-0.07	0.0737	-0.0023	0.0105	-0.0319	0.1419	0.4678	-0.0188	0.1381	-0.0402	0.2952
28	10.05	-0.03	0.0790	-0.0025	0.0124	-0.0316	0.1573	0.4972	-0.0189	0.1456	-0.0381	0.2928
29	10.42	-0.11	0.0836	-0.0028	0.0157	-0.0341	0.1873	0.5281	-0.0194	0.1548	-0.0368	0.2931
30	10.86	0.0	0.0724	-0.0019	0.0131	-0.0269	0.1813	0.5376	-0.0191	0.1592	-0.0356	0.2962
31	11.24	-0.02	0.0794	-0.0014	0.0123	-0.0183	0.1544	0.5549	-0.0193	0.1658	-0.0348	0.2988
32	11.65	-0.01	0.0907	-0.0019	0.0147	-0.0209	0.1623	0.5741	-0.0194	0.1728	-0.0338	0.3010
33	12.01	0.02	0.0945	-0.0024	0.0194	-0.0259	0.2052	0.6076	-0.0193	0.1827	-0.0318	0.3006
34	12.38	-0.05	0.0728	-0.0011	0.0131	-0.0151	0.1794	0.6093	-0.0193	0.1848	-0.0317	0.3033
35	12.74	-0.07	0.0910	-0.0014	0.0148	-0.0159	0.1629	0.6248	-0.0190	0.1917	-0.0302	0.3043
36	13.11	-0.07	0.0884	-0.0013	0.0138	-0.0154	0.1556	0.6580	-0.0189	0.2024	-0.0287	0.3075
37	13.46	0.02	0.0897	-0.0012	0.0174	-0.0139	0.1939	0.6700	-0.0183	0.2044	-0.0274	0.3052
38	13.83	-0.02	0.0918	-0.0010	0.0197	-0.0114	0.2145	0.6953	-0.0180	0.2144	-0.0260	0.3083
39	14.20	0.0	0.0898	-0.0009	0.0173	-0.0106	0.1929	0.7073	-0.0176	0.2173	-0.0249	0.3072
40	14.54	-0.02	0.0898	-0.0009	0.0173	-0.0106	0.1929	0.7293	-0.0170	0.2243	-0.0234	0.3076
41	14.92	-0.05	0.0997	-0.0006	0.0165	-0.0065	0.1697	0.7459	-0.0169	0.2309	-0.0227	0.3096
42	15.25	-0.06	0.1033	-0.0009	0.0158	-0.0092	0.1532	0.7588	-0.0166	0.2344	-0.0219	0.3090
43	15.63	-0.08	0.1078	-0.0005	0.0197	-0.0051	0.1829	0.7899	-0.0160	0.2430	-0.0202	0.3076
44	15.96	-0.08	0.1068	-0.0006	0.0216	-0.0056	0.2021	0.8008	-0.0157	0.2469	-0.0197	0.3084
45	16.31	-0.06	0.1089	-0.0005	0.0176	-0.0050	0.1615	0.8210	-0.0153	0.2516	-0.0187	0.3064
46	16.64	-0.04	0.1035	-0.0003	0.0220	-0.0034	0.2124	0.8415	-0.0150	0.2608	-0.0179	0.3099

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	54	1.10	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF-3	CH3	CH3	XC PF 3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.98	-0.02	0.1116	-0.0004	0.0186	-0.0040	0.1665	0.8519	-0.0149	0.2626	-0.0175	0.3082
48	17.31	-0.03	0.1068	-0.0003	0.0217	-0.0033	0.2031	0.8831	-0.0145	0.2710	-0.0165	0.3068
49	17.63	-0.09	0.1000	0.0003	0.0167	-0.0035	0.1672	0.9018	-0.0141	0.2767	-0.0157	0.3068
50	17.97	-0.06	0.1056	-0.0000	0.0243	-0.0005	0.2300	0.9174	-0.0132	0.2811	-0.0144	0.3064
51	18.31	-0.06	0.1137	-0.0002	0.0271	-0.0018	0.2382	0.9342	-0.0137	0.2855	-0.0147	0.3056
52	18.64	-0.08	0.1131	-0.0005	0.0215	-0.0044	0.1900	0.9488	-0.0131	0.2870	-0.0139	0.3024
53	18.97	-0.07	0.1035	0.0000	0.0220	0.0005	0.2124	0.9659	-0.0127	0.2945	-0.0132	0.3049
54	19.30	-0.06	0.1129	-0.0000	0.0221	-0.0004	0.1959	0.9872	-0.0126	0.3009	-0.0128	0.3048
55	19.63	-0.08	0.1172	0.0005	0.0266	0.0047	0.2274	1.0015	-0.0130	0.3036	-0.0130	0.3032
56	19.95	-0.06	0.1119	0.0004	0.0248	0.0040	0.2215	1.0138	-0.0128	0.3064	-0.0127	0.3022
57	20.32	-0.08	0.1173	0.0	0.0268	0.0	0.2284	1.0275	-0.0133	0.3122	-0.0130	0.3038
58	20.64	-0.06	0.1280	0.0008	0.0255	0.0066	0.1996	1.0410	-0.0140	0.3143	-0.0135	0.3019
59	21.00	-0.07	0.1200	0.0012	0.0290	0.0104	0.2415	1.0596	-0.0135	0.3208	-0.0128	0.3027
60	21.34	-0.08	0.1155	0.0009	0.0251	0.0078	0.2172	1.0742	-0.0139	0.3227	-0.0130	0.3005
61	21.69	-0.09	0.1335	0.0010	0.0337	0.0075	0.2523	1.0925	-0.0138	0.3289	-0.0127	0.3011
62	21.99	-0.08	0.1180	0.0017	0.0266	0.0148	0.2256	1.0915	-0.0137	0.3294	-0.0126	0.3018
63	22.31	-0.08	0.1363	0.0019	0.0345	0.0143	0.2532	1.1202	-0.0127	0.3362	-0.0114	0.3001
64	22.66	-0.06	0.1257	0.0021	0.0300	0.0171	0.2385	1.1302	-0.0130	0.3385	-0.0115	0.2995
65	22.94	-0.08	0.1359	0.0018	0.0344	0.0136	0.2530	1.1293	-0.0126	0.3390	-0.0112	0.3002
66	23.30	-0.08	0.1354	0.0013	0.0343	0.0096	0.2535	1.1351	-0.0131	0.3371	-0.0115	0.2970
67	23.61	-0.09	0.1447	0.0028	0.0358	0.0193	0.2475	1.1408	-0.0125	0.3396	-0.0110	0.2977
68	23.94	-0.08	0.1488	0.0025	0.0342	0.0168	0.2297	1.1477	-0.0132	0.3403	-0.0115	0.2965
69	24.26	-0.09	0.1464	0.0022	0.0333	0.0157	0.2273	1.1585	-0.0132	0.3416	-0.0114	0.2949
70	24.58	-0.10	0.1530	0.0022	0.0332	0.0147	0.2169	1.1614	-0.0130	0.3440	-0.0112	0.2962
71	24.94	-0.09	0.1449	0.0019	0.0305	0.0135	0.2104	1.1667	-0.0130	0.3460	-0.0112	0.2961
72	25.19	-0.07	0.1351	0.0016	0.0310	0.0122	0.2296	1.1702	-0.0129	0.3465	-0.0111	0.2961
73	25.57	-0.08	0.1534	0.0022	0.0333	0.0147	0.2172	1.1886	-0.0132	0.3517	-0.0111	0.2959
74	25.84	-0.11	0.1585	0.0015	0.0353	0.0095	0.2228	1.2108	-0.0131	0.3591	-0.0109	0.2966
75	26.18	-0.09	0.1447	0.0014	0.0304	0.0100	0.2102	1.2191	-0.0131	0.3603	-0.0107	0.2956
76	26.49	-0.09	0.1461	0.0011	0.0334	0.0075	0.2285	1.2412	-0.0129	0.3659	-0.0104	0.2948
77	26.78	-0.10	0.1369	0.0027	0.0267	0.0201	0.1952	1.2520	-0.0128	0.3697	-0.0102	0.2953
78	27.09	-0.09	0.1465	0.0014	0.0315	0.0099	0.2179	1.2615	-0.0130	0.3717	-0.0103	0.2947
79	27.42	-0.10	0.1500	0.0016	0.0378	0.0107	0.2519	1.2679	-0.0130	0.3725	-0.0102	0.2938
80	27.74	-0.11	0.1459	0.0016	0.0333	0.0113	0.2283	1.2756	-0.0128	0.3727	-0.0101	0.2922
81	28.03	-0.11	0.1433	0.0018	0.0323	0.0129	0.2257	1.2826	-0.0130	0.3759	-0.0101	0.2931
82	28.35	-0.07	0.1466	0.0016	0.0319	0.0113	0.2179	1.2865	-0.0142	0.3772	-0.0110	0.2932
83	28.64	-0.10	0.1607	0.0023	0.0366	0.0143	0.2280	1.2973	-0.0139	0.3797	-0.0107	0.2927
84	28.96	-0.11	0.1509	0.0024	0.0379	0.0162	0.2510	1.3077	-0.0138	0.3835	-0.0105	0.2933
85	29.27	-0.09	0.1677	0.0036	0.0380	0.0215	0.2265	1.3213	-0.0133	0.3866	-0.0101	0.2926
86	29.59	-0.11	0.1562	0.0028	0.0348	0.0182	0.2231	1.3256	-0.0134	0.3893	-0.0101	0.2937
87	29.91	-0.10	0.1619	0.0035	0.0367	0.0216	0.2270	1.3402	-0.0112	0.3945	-0.0084	0.2943
88	30.23	-0.08	0.1628	0.0033	0.0347	0.0203	0.2134	1.3433	-0.0109	0.3946	-0.0081	0.2938

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		55 1.05 1.7		0.0		B2M2F12	16.750	0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	-2.82	0.04	-0.5901	0.2532	0.2311	-0.0245	0.0210	0.3504	-0.4291				
2	-2.81	-0.04	-0.5487	0.2383	0.0669	-0.1106	0.0230	0.3574	-0.4343				
3	-2.69	-0.01	-0.5203	0.2165	0.0380	-0.0022	0.0250	0.3576	-0.4161				
4	-2.02	-0.02	-0.3601	0.1271	0.1591	-0.0517	0.0230	0.3643	-0.3531				
5	-1.42	-0.03	-0.2442	0.0689	0.0129	-0.0371	0.0240	0.3662	-0.2821				
6	-0.85	-0.02	-0.1161	0.0025	0.0454	-0.0666	0.0250	0.3634	-0.0219				
7	-0.31	0.0	-0.0138	-0.0187	0.1424	-0.0224	0.0200	0.3730	1.3536				
8	0.22	0.0	0.0604	0.0044	0.1346	-0.0434	0.0230	0.3768	0.0735				
9	0.76	-0.03	0.1865	-0.0281	0.0641	-0.0407	0.0290	0.3820	-0.1507				
10	1.29	0.0	0.3022	-0.0351	0.1175	-0.0975	0.0240	0.3896	-0.1161				
11	1.82	-0.01	0.4368	-0.1446	0.1210	-0.1004	0.0200	0.3823	-0.3311				
12	2.30	-0.04	0.5145	-0.1874	0.0631	-0.1123	0.0340	0.3995	-0.3642				
13	2.81	0.0	0.6676	-0.2887	0.1278	-0.0989	0.0260	0.3981	-0.4325				
14	3.29	-0.02	0.7654	-0.3796	0.0828	-0.1689	0.0300	0.4063	-0.4960				
15	3.76	-0.04	0.9259	-0.4863	0.0767	-0.1084	0.0260	0.3994	-0.5253				
16	4.24	-0.01	0.9833	-0.6007	0.2244	-0.1661	0.0330	0.4061	-0.6109				
17	4.68	-0.02	1.1236	-0.7251	0.1622	-0.0751	0.0290	0.4045	-0.6453				
18	5.15	0.0	1.2806	-0.8620	0.0870	-0.0718	0.0290	0.4015	-0.6731				
19	5.60	-0.02	1.3973	-1.0644	0.0855	-0.1827	0.0300	0.4006	-0.7617				
20	6.07	-0.01	1.5444	-1.1883	0.1051	-0.0771	0.0310	0.4087	-0.7694				
21	6.54	-0.01	1.7177	-1.3979	0.0717	-0.0824	0.0290	0.4011	-0.8138				
22	7.01	-0.02	1.8482	-1.5586	0.0751	-0.1571	0.0290	0.3976	-0.8433				
23	7.45	-0.01	1.9455	-1.6969	0.1170	-0.1378	0.0250	0.3936	-0.8722				
24	7.87	-0.01	2.0921	-1.9111	0.0917	-0.0934	0.0270	0.3918	-0.9135				
25	8.33	-0.01	2.2539	-2.0746	0.1384	-0.1237	0.0280	0.3949	-0.9205				
26	8.75	0.0	2.3824	-2.3215	0.1285	-0.0529	0.0230	0.3889	-0.9744				
27	9.18	-0.01	2.5018	-2.4726	0.1205	-0.1167	0.0290	0.3903	-0.9883				
28	9.57	-0.02	2.6511	-2.6986	0.1252	-0.0323	0.0270	0.3784	-1.0179				
29	10.02	-0.04	2.8036	-2.8562	0.0149	-0.0848	0.0270	0.3600	-1.0148				
30	10.39	-0.10	2.9077	-3.0419	0.0148	-0.1367	0.0260	0.3767	-1.0462				
31	10.83	-0.06	3.0411	-3.2237	0.0580	-0.0602	0.0330	0.3692	-1.0600				
32	11.21	-0.04	3.1856	-3.3890	0.0310	-0.0154	0.0270	0.3634	-1.0638				
33	11.60	-0.01	3.3367	-3.6245	0.1094	-0.0911	0.0280	0.3507	-1.0863				
34	11.98	-0.03	3.4812	-3.8039	0.0872	-0.0331	0.0270	0.3413	-1.0927				
35	12.34	-0.03	3.6125	-3.9447	0.1228	-0.0489	0.0260	0.3365	-1.0919				
36	12.71	-0.03	3.7550	-4.1612	0.0423	-0.0342	0.0300	0.3295	-1.1042				
37	13.06	-0.05	3.8267	-4.2395	-0.0476	-0.0064	0.0370	0.3269	-1.1079				
38	13.43	-0.04	3.9928	-4.4210	0.0266	-0.0102	0.0340	0.3360	-1.1073				
39	13.79	-0.03	4.1298	-4.6228	0.0942	0.0441	0.0300	0.3406	-1.1194				
40	14.17	-0.06	4.2665	-4.7773	0.0043	-0.0320	0.0280	0.3551	-1.1197				
41	14.50	-0.05	4.3661	-4.9077	0.0654	-0.0056	0.0300	0.3548	-1.1240				
42	14.89	-0.07	4.5333	-4.9828	0.0113	-0.0988	0.0290	0.3563	-1.0992				
43	15.25	-0.07	4.6018	-5.0677	-0.0317	-0.0176	0.0290	0.3551	-1.1012				
44	15.59	-0.05	4.7325	-5.2307	0.0641	0.0293	0.0210	0.3454	-1.1053				
45	15.94	-0.07	4.8453	-5.3676	-0.0217	0.0194	0.0230	0.3401	-1.1078				
46	16.28	-0.05	4.9887	-5.5934	-0.0108	0.2141	0.0330	0.3375	-1.1212				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		55		1.05 1.7		0.0	B2W2-12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP				
47	16.61	-0.06	5.1419	-5.8129	0.0211	0.0864	0.0240	0.3296	-1.1305				
48	16.95	-0.07	5.2560	-5.9756	-0.0201	0.0341	0.0250	0.3158	-1.1369				
49	17.27	-0.06	5.3609	-6.2174	0.0431	0.0846	0.0290	0.3052	-1.1598				
50	17.60	-0.06	5.5470	-6.4249	0.0453	0.1016	0.0140	0.2865	-1.1583				
51	17.92	-0.08	5.6565	-6.5302	-0.0808	0.2011	0.0150	0.2663	-1.1545				
52	18.28	-0.07	5.7992	-6.6361	0.0057	0.1430	0.0200	0.2461	-1.1443				
53	18.59	-0.07	5.8850	-6.8172	-0.0217	0.1274	0.0130	0.2482	-1.1584				
54	18.94	-0.06	6.0827	-7.0030	-0.0247	0.2266	0.0220	0.2422	-1.1513				
55	19.26	-0.06	6.2030	-7.2704	0.0235	0.2041	0.0160	0.2599	-1.1721				
56	19.59	-0.07	6.3451	-7.3723	-0.0195	0.2133	0.0120	0.2796	-1.1619				
57	19.94	-0.06	6.4398	-7.4189	0.0048	0.1833	0.0050	0.2926	-1.1520				
58	20.27	-0.07	6.5089	-7.4058	-0.0248	0.1947	0.0070	0.2845	-1.1378				
59	20.62	-0.06	6.6217	-7.4937	-0.0131	0.2203	-0.0060	0.2700	-1.1317				
60	20.95	-0.06	6.7294	-7.5664	0.0139	0.2015	-0.0080	0.2554	-1.1244				
61	21.32	-0.06	6.8531	-7.4756	0.0101	0.2338	-0.0090	0.2483	-1.0908				
62	21.66	-0.07	6.9195	-7.5636	-0.0428	0.2709	-0.0220	0.2466	-1.0931				
63	21.98	-0.06	6.9923	-7.6865	0.0243	0.1200	-0.0210	0.2456	-1.0993				
64	22.31	-0.05	7.1465	-7.6669	0.0644	0.1578	-0.0310	0.2565	-1.0728				
65	22.61	-0.07	7.2285	-7.9011	0.0532	0.1585	-0.0150	0.2566	-1.0931				
66	22.88	-0.09	7.3667	-8.0407	-0.0159	0.0922	-0.0200	0.2338	-1.0915				
67	23.25	-0.08	7.5477	-7.9681	0.0279	0.1269	-0.0140	0.2060	-1.0557				
68	23.55	-0.07	7.6909	-7.9036	0.0723	0.1698	-0.0200	0.1833	-1.0277				
69	23.91	-0.08	7.8804	-7.8769	0.0254	0.1294	-0.0350	0.1700	-0.9996				
70	24.21	-0.08	8.0456	-7.9973	0.0356	0.1561	-0.0380	0.1871	-0.9940				
71	24.57	-0.09	8.1894	-8.1606	-0.0172	0.0041	-0.0510	0.2084	-0.9965				
72	24.89	-0.09	8.3536	-8.3035	-0.0040	0.0996	-0.0530	0.2317	-0.9940				
73	25.18	-0.09	8.4299	-8.2333	-0.1039	0.3224	-0.0540	0.2494	-0.9767				
74	25.55	-0.09	8.5698	-8.1372	-0.0416	0.2602	-0.0590	0.2499	-0.9495				
75	25.83	-0.10	8.6513	-8.1523	-0.0821	0.3009	-0.0560	0.2440	-0.9423				
76	26.13	-0.08	8.7625	-8.1470	0.0184	0.2812	-0.0790	0.2374	-0.9298				
77	26.44	-0.10	8.8428	-8.1275	-0.0220	0.1638	-0.0820	0.2348	-0.9191				
78	26.75	-0.11	8.9850	-8.1696	-0.1174	0.2683	-0.0920	0.2292	-0.9092				
79	27.03	-0.10	9.0889	-8.2541	-0.0921	0.2339	-0.0910	0.2215	-0.9081				
80	27.37	-0.10	9.2903	-8.3930	-0.1356	0.5234	-0.0730	0.2135	-0.9034				
81	27.71	-0.10	9.4464	-8.4135	-0.1644	0.5691	-0.0890	0.2009	-0.8907				
82	28.01	-0.08	9.6110	-8.4931	-0.1230	0.5951	-0.0900	0.1920	-0.8837				
83	28.30	-0.09	9.7115	-8.5558	-0.1575	0.5054	-0.1010	0.1817	-0.8810				
84	28.60	-0.07	9.8812	-8.5764	-0.1411	0.7884	-0.1200	0.1785	-0.8679				
85	28.92	-0.09	10.0378	-8.6266	-0.1126	0.4186	-0.1160	0.1662	-0.8594				
86	29.26	-0.10	10.1853	-8.6651	-0.0487	0.2921	-0.1340	0.1632	-0.8507				
87	29.58	-0.12	10.3061	-8.6262	-0.1357	-0.0130	-0.1290	0.1507	-0.8370				
88	29.91	-0.15	10.4428	-8.5928	-0.1451	-0.2258	-0.1240	0.1443	-0.8228				
89	30.20	-0.05	10.5200	-8.7058	0.0866	0.3847	-0.1270	0.1405	-0.8275				

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	55	1.05	1.7	0.0	0.2	2.12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.82	0.04	-0.2609	0.0011	0.0483	-0.0044	-0.1850	-0.0561	0.0049	-0.0360	-0.0843	0.6189
2	-2.81	-0.04	-0.2694	0.0012	0.0492	-0.0046	-0.1827	-0.0598	0.0047	-0.0344	-0.0786	0.5757
3	-2.69	-0.01	-0.2708	0.0013	0.0494	-0.0050	-0.1823	-0.0523	0.0041	-0.0322	-0.0793	0.6162
4	-2.02	-0.02	-0.2608	0.0011	0.0482	-0.0044	-0.1848	-0.0380	0.0029	-0.0247	-0.0776	0.6490
5	-1.42	-0.03	-0.2623	0.0012	0.0484	-0.0046	-0.1845	-0.0182	0.0015	-0.0185	-0.0824	1.0145
6	-0.85	-0.02	-0.2606	0.0011	0.0482	-0.0044	-0.1848	-0.0051	0.0003	-0.0116	-0.0588	2.2744
7	-0.31	0.0	-0.2577	0.0011	0.0478	-0.0045	-0.1856	-0.0009	-0.0004	-0.0068	0.4444	7.5554
8	0.22	0.0	-0.2607	0.0012	0.0482	-0.0046	-0.1850	0.0065	-0.0006	-0.0044	-0.0923	-0.6822
9	0.76	-0.03	-0.2886	0.0012	0.0560	-0.0042	-0.1940	0.0176	-0.0013	-0.0006	-0.0739	-0.0361
10	1.29	0.0	-0.2622	0.0012	0.0483	-0.0048	-0.1843	0.0284	-0.0023	0.0049	-0.0810	0.1712
11	1.82	-0.01	-0.2523	0.0011	0.0472	-0.0046	-0.1872	0.0377	-0.0034	0.0117	-0.0915	0.3093
12	2.30	-0.04	-0.2608	0.0012	0.0482	-0.0048	-0.1848	0.0514	-0.0045	0.0162	-0.0875	0.3157
13	2.81	0.0	-0.2664	0.0013	0.0488	-0.0049	-0.1833	0.0670	-0.0060	0.0245	-0.0903	0.3661
14	3.29	-0.02	-0.2662	0.0013	0.0488	-0.0051	-0.1833	0.0791	-0.0071	0.0301	-0.0897	0.3800
15	3.76	-0.04	-0.2604	0.0012	0.0481	-0.0048	-0.1848	0.0984	-0.0085	0.0392	-0.0864	0.3983
16	4.24	-0.01	-0.2686	0.0013	0.0490	-0.0050	-0.1824	0.1159	-0.0094	0.0440	-0.0811	0.3798
17	4.68	-0.02	-0.2742	0.0015	0.0497	-0.0055	-0.1812	0.1366	-0.0104	0.0525	-0.0761	0.3845
18	5.15	0.0	-0.2742	0.0014	0.0496	-0.0053	-0.1810	0.1561	-0.0115	0.0605	-0.0740	0.3877
19	5.60	-0.02	-0.2739	0.0014	0.0496	-0.0053	-0.1812	0.1791	-0.0127	0.0702	-0.0712	0.3918
20	6.07	-0.01	-0.2934	0.0016	0.0518	-0.0056	-0.1765	0.1999	-0.0137	0.0784	-0.0685	0.3922
21	6.54	-0.01	-0.2820	0.0015	0.0505	-0.0053	-0.1790	0.2219	-0.0147	0.0865	-0.0662	0.3900
22	7.01	-0.02	-0.3445	0.0016	0.0669	-0.0046	-0.1941	0.2373	-0.0154	0.0946	-0.0649	0.3985
23	7.45	-0.01	-0.2888	0.0016	0.0512	-0.0055	-0.1773	0.2590	-0.0159	0.1045	-0.0616	0.4035
24	7.87	-0.01	-0.2975	0.0017	0.0522	-0.0059	-0.1755	0.2809	-0.0167	0.1138	-0.0596	0.4051
25	8.33	-0.01	-0.2932	0.0016	0.0518	-0.0055	-0.1765	0.3021	-0.0173	0.1200	-0.0572	0.3971
26	8.75	0.0	-0.2875	0.0015	0.0512	-0.0052	-0.1779	0.3228	-0.0180	0.1290	-0.0559	0.3995
27	9.18	-0.01	-0.2890	0.0016	0.0513	-0.0055	-0.1773	0.3475	-0.0188	0.1377	-0.0541	0.3962
28	9.57	-0.02	-0.2820	0.0015	0.0505	-0.0053	-0.1790	0.3721	-0.0193	0.1466	-0.0520	0.3939
29	10.02	-0.04	-0.3447	0.0016	0.0665	-0.0046	-0.1940	0.3971	-0.0201	0.1539	-0.0506	0.3876
30	10.39	-0.10	-0.2736	0.0013	0.0496	-0.0049	-0.1814	0.4140	-0.0202	0.1618	-0.0489	0.3907
31	10.83	-0.06	-0.2791	0.0014	0.0502	-0.0050	-0.1797	0.4378	-0.0207	0.1686	-0.0474	0.3851
32	11.21	-0.04	-0.2737	0.0013	0.0496	-0.0049	-0.1812	0.4570	-0.0208	0.1763	-0.0454	0.3842
33	11.60	-0.01	-0.2653	0.0012	0.0487	-0.0045	-0.1836	0.4802	-0.0206	0.1826	-0.0430	0.3803
34	11.98	-0.03	-0.2459	0.0009	0.0466	-0.0037	-0.1894	0.5060	-0.0203	0.1895	-0.0401	0.3745
35	12.34	-0.03	-0.2688	0.0012	0.0491	-0.0046	-0.1828	0.5211	-0.0200	0.1960	-0.0384	0.3762
36	12.71	-0.03	-0.2422	0.0008	0.0461	-0.0035	-0.1903	0.5418	-0.0196	0.2020	-0.0362	0.3729
37	13.06	-0.05	-0.2380	0.0008	0.0457	-0.0034	-0.1920	0.5547	-0.0190	0.2044	-0.0343	0.3685
38	13.43	-0.04	-0.2380	0.0008	0.0457	-0.0034	-0.1920	0.5733	-0.0194	0.2114	-0.0339	0.3688
39	13.79	-0.03	-0.2380	0.0008	0.0457	-0.0034	-0.1920	0.5909	-0.0195	0.2165	-0.0331	0.3664
40	14.17	-0.06	-0.2338	0.0008	0.0452	-0.0034	-0.1933	0.6110	-0.0193	0.2224	-0.0317	0.3640
41	14.50	-0.05	-0.2234	0.0006	0.0440	-0.0027	-0.1968	0.6211	-0.0190	0.2245	-0.0306	0.3614
42	14.89	-0.07	-0.2313	0.0007	0.0448	-0.0030	-0.1938	0.6320	-0.0189	0.2281	-0.0300	0.3609
43	15.25	-0.07	-0.2124	0.0005	0.0426	-0.0024	-0.2007	0.6452	-0.0177	0.2300	-0.0274	0.3565
44	15.59	-0.05	-0.1960	0.0002	0.0407	-0.0010	-0.2076	0.6612	-0.0177	0.2353	-0.0268	0.3559
45	15.94	-0.07	-0.1749	-0.0001	0.0383	0.0006	-0.2191	0.6791	-0.0170	0.2395	-0.0251	0.3526
46	16.28	-0.05	-0.1609	-0.0003	0.0368	0.0022	-0.2286	0.7026	-0.0157	0.2456	-0.0223	0.3496

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	55	1.05	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
47	16.61	-0.06	-0.1649	-0.0003	0.0371	0.0021	-0.2253	0.7275	-0.0140	0.2506	-0.0193	0.3445
48	16.95	-0.07	-0.1609	-0.0003	0.0368	0.0022	-0.2286	0.7567	-0.0142	0.2575	-0.0188	0.3403
49	17.27	-0.06	-0.1541	-0.0004	0.0360	0.0026	-0.2339	0.7772	-0.0139	0.2639	-0.0179	0.3395
50	17.60	-0.06	-0.1662	-0.0002	0.0375	0.0015	-0.2258	0.8011	-0.0126	0.2721	-0.0158	0.3497
51	17.92	-0.08	-0.1270	-0.0009	0.0332	0.0071	-0.2613	0.8156	-0.0112	0.2729	-0.0138	0.3346
52	18.28	-0.07	-0.1276	-0.0009	0.0333	0.0074	-0.2608	0.8244	-0.0112	0.2769	-0.0136	0.3359
53	18.59	-0.07	-0.1293	-0.0008	0.0335	0.0062	-0.2592	0.8518	-0.0113	0.2820	-0.0133	0.3311
54	18.94	-0.06	-0.0996	-0.0013	0.0302	0.0130	-0.3033	0.8699	-0.0110	0.2883	-0.0127	0.3314
55	19.26	-0.06	-0.1053	-0.0012	0.0308	0.0119	-0.2926	0.8961	-0.0104	0.2940	-0.0116	0.3281
56	19.59	-0.07	-0.1191	-0.0009	0.0323	0.0080	-0.2713	0.9138	-0.0122	0.3003	-0.0134	0.3286
57	19.94	-0.06	-0.0988	-0.0013	0.0300	0.0132	-0.3034	0.9170	-0.0122	0.3003	-0.0133	0.3274
58	20.27	-0.07	-0.0759	-0.0016	0.0272	0.0211	-0.3585	0.9233	-0.0128	0.3016	-0.0139	0.3266
59	20.62	-0.06	-0.0893	-0.0014	0.0286	0.0157	-0.3208	0.9474	-0.0135	0.3068	-0.0142	0.3238
60	20.95	-0.06	-0.0613	-0.0018	0.0255	0.0294	-0.4156	0.9551	-0.0138	0.3103	-0.0145	0.3248
61	21.32	-0.06	-0.0418	-0.0021	0.0232	0.0502	-0.5543	0.9748	-0.0124	0.3136	-0.0127	0.3217
62	21.66	-0.07	-0.0348	-0.0021	0.0223	0.0618	-0.6409	0.9841	-0.0126	0.3165	-0.0128	0.3216
63	21.98	-0.06	-0.0472	-0.0020	0.0238	0.0424	-0.5036	0.9930	-0.0149	0.3195	-0.0150	0.3217
64	22.31	-0.05	-0.0471	-0.0020	0.0237	0.0435	-0.5033	0.9938	-0.0156	0.3159	-0.0157	0.3178
65	22.61	-0.07	-0.0488	-0.0020	0.0240	0.0410	-0.4926	0.9961	-0.0148	0.3182	-0.0149	0.3195
66	22.88	-0.09	-0.0534	-0.0019	0.0247	0.0356	-0.4627	1.0116	-0.0138	0.3211	-0.0136	0.3174
67	23.25	-0.08	-0.0299	-0.0024	0.0221	0.0803	-0.7404	1.0114	-0.0156	0.3233	-0.0154	0.3197
68	23.55	-0.07	-0.0343	-0.0023	0.0228	0.0685	-0.6639	1.0068	-0.0143	0.3215	-0.0182	0.3193
69	23.91	-0.08	-0.0074	-0.0028	0.0198	0.3851	-2.6803	1.0120	-0.0182	0.3231	-0.0180	0.3193
70	24.21	-0.08	0.0124	-0.0032	0.0176	-0.2580	1.4219	1.0254	-0.0190	0.3274	-0.0186	0.3193
71	24.57	-0.09	0.0140	-0.0033	0.0175	-0.2357	1.2475	1.0409	-0.0197	0.3311	-0.0190	0.3181
72	24.89	-0.09	0.0253	-0.0035	0.0161	-0.1403	0.6376	1.0610	-0.0189	0.3370	-0.0179	0.3177
73	25.18	-0.09	0.0450	-0.0040	0.0139	-0.0889	0.3088	1.0637	-0.0196	0.3375	-0.0185	0.3173
74	25.55	-0.09	0.0502	-0.0039	0.0131	-0.0787	0.2615	1.0717	-0.0206	0.3396	-0.0192	0.3169
75	25.83	-0.10	0.0125	-0.0034	0.0173	-0.2720	1.3812	1.0802	-0.0203	0.3402	-0.0188	0.3150
76	26.13	-0.08	0.0444	-0.0039	0.0137	-0.0884	0.3084	1.0864	-0.0198	0.3413	-0.0183	0.3142
77	26.44	-0.10	0.0499	-0.0040	0.0130	-0.0801	0.2611	1.0891	-0.0208	0.3411	-0.0191	0.3132
78	26.75	-0.11	0.0721	-0.0044	0.0105	-0.0610	0.1460	1.1040	-0.0194	0.3448	-0.0176	0.3123
79	27.03	-0.10	0.0805	-0.0045	0.0096	-0.0565	0.1196	1.1193	-0.0180	0.3500	-0.0161	0.3127
80	27.37	-0.10	0.0504	-0.0043	0.0131	-0.0853	0.2598	1.1318	-0.0185	0.3512	-0.0163	0.3103
81	27.71	-0.10	0.0977	-0.0050	0.0078	-0.0517	0.0794	1.1477	-0.0169	0.3563	-0.0148	0.3105
82	28.01	-0.08	0.0685	-0.0045	0.0110	-0.0664	0.1610	1.1648	-0.0157	0.3597	-0.0135	0.3088
83	28.30	-0.09	0.0976	-0.0049	0.0078	-0.0507	0.0801	1.1826	-0.0158	0.3637	-0.0134	0.3075
84	28.60	-0.07	0.1341	-0.0056	0.0037	-0.0421	0.0275	1.1905	-0.0152	0.3673	-0.0128	0.3085
85	28.92	-0.09	0.1382	-0.0056	0.0032	-0.0405	0.0235	1.2051	-0.0150	0.3709	-0.0125	0.3077
86	29.26	-0.10	0.1143	-0.0050	0.0055	-0.0437	0.0515	1.2175	-0.0147	0.3751	-0.0121	0.3081
87	29.58	-0.12	0.0917	-0.0043	0.0084	-0.0474	0.0911	1.2263	-0.0136	0.3765	-0.0111	0.3070
88	29.91	-0.15	0.1531	-0.0055	0.0015	-0.0362	0.0099	1.2343	-0.0121	0.3779	-0.0098	0.3062
89	30.20	-0.05	0.1365	-0.0053	0.0034	-0.0388	0.0248	1.2384	-0.0121	0.3776	-0.0098	0.3049

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 55 1.05 1.7 0.0 B2W2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.82	0.04	0.0350	0.0009	-0.0033	0.0257	-0.0954	-0.0380	0.0057	-0.0317	-0.1500	0.8332
2	-2.81	-0.04	0.0338	0.0006	-0.0012	0.0192	-0.0366	-0.0389	0.0062	-0.0316	-0.1606	0.8114
3	-2.69	-0.01	0.0349	0.0006	-0.0034	0.0172	-0.0966	-0.0297	0.0050	-0.0297	-0.1700	0.9999
4	-2.02	-0.02	0.0310	0.0006	-0.0023	0.0194	-0.0732	-0.0113	0.0038	-0.0224	-0.3406	1.9792
5	-1.42	-0.03	0.0310	0.0006	-0.0023	0.0194	-0.0732	0.0105	0.0022	-0.0163	0.2095	-1.5525
6	-0.85	-0.02	0.0310	0.0005	-0.0023	0.0161	-0.0732	0.0298	0.0005	-0.0102	0.0185	-0.3413
7	-0.31	0.0	0.0371	0.0001	-0.0016	0.0040	-0.0441	0.0394	-0.0002	-0.0068	-0.0063	-0.1719
8	0.22	0.0	0.0371	0.0001	-0.0016	0.0040	-0.0441	0.0515	-0.0008	-0.0049	-0.0155	-0.0959
9	0.76	-0.03	0.0332	0.0000	-0.0005	0.0015	-0.0162	0.0711	-0.0022	-0.0009	-0.0316	-0.0128
10	1.29	0.0	0.0425	-0.0003	0.0004	-0.0071	0.0085	0.0809	-0.0034	0.0056	-0.0420	0.0687
11	1.82	-0.01	0.0423	-0.0009	0.0004	-0.0213	0.0093	0.1006	-0.0052	0.0128	-0.0522	0.1274
12	2.30	-0.04	0.0451	-0.0008	0.0013	-0.0177	0.0294	0.1209	-0.0063	0.0169	-0.0525	0.1397
13	2.81	0.0	0.0330	-0.0012	0.0053	-0.0379	0.1605	0.1386	-0.0077	0.0242	-0.0559	0.1745
14	3.29	-0.02	0.0499	-0.0018	0.0040	-0.0361	0.0807	0.1628	-0.0094	0.0319	-0.0577	0.1962
15	3.76	-0.04	0.0468	-0.0016	0.0038	-0.0353	0.0811	0.1811	-0.0104	0.0381	-0.0574	0.2106
16	4.24	-0.01	0.0461	-0.0024	0.0045	-0.0521	0.0968	0.2022	-0.0116	0.0447	-0.0576	0.2209
17	4.68	-0.02	0.0485	-0.0026	0.0062	-0.0546	0.1270	0.2240	-0.0125	0.0518	-0.0558	0.2314
18	5.15	0.0	0.0520	-0.0025	0.0057	-0.0490	0.1101	0.2444	-0.0134	0.0596	-0.0548	0.2440
19	5.60	-0.02	0.0546	-0.0027	0.0067	-0.0504	0.1226	0.2788	-0.0142	0.0688	-0.0515	0.2483
20	6.07	-0.01	0.0517	-0.0031	0.0058	-0.0609	0.1127	0.2910	-0.0152	0.0756	-0.0522	0.2597
21	6.54	-0.01	0.0461	-0.0030	0.0103	-0.0661	0.2226	0.3224	-0.0163	0.0859	-0.0505	0.2665
22	7.01	-0.02	0.0594	-0.0036	0.0094	-0.0606	0.1581	0.3409	-0.0170	0.0937	-0.0498	0.2749
23	7.45	-0.01	0.0481	-0.0031	0.0126	-0.0644	0.2625	0.3612	-0.0173	0.1032	-0.0479	0.2856
24	7.87	-0.01	0.0601	-0.0027	0.0087	-0.0449	0.1452	0.3839	-0.0180	0.1105	-0.0469	0.2879
25	8.33	-0.01	0.0587	-0.0027	0.0115	-0.0460	0.1952	0.4093	-0.0184	0.1201	-0.0449	0.2934
26	8.75	0.0	0.0716	-0.0027	0.0119	-0.0377	0.1656	0.4384	-0.0188	0.1298	-0.0429	0.2960
27	9.18	-0.01	0.0642	-0.0027	0.0102	-0.0390	0.1468	0.4581	-0.0191	0.1356	-0.0418	0.2959
28	9.57	-0.02	0.0602	-0.0024	0.0151	-0.0399	0.2502	0.4934	-0.0196	0.1455	-0.0397	0.2949
29	10.02	-0.04	0.0602	-0.0024	0.0151	-0.0399	0.2502	0.5126	-0.0198	0.1520	-0.0386	0.2965
30	10.39	-0.10	0.0681	-0.0017	0.0129	-0.0257	0.1893	0.5310	-0.0198	0.1613	-0.0373	0.3038
31	10.83	-0.06	0.0720	-0.0017	0.0118	-0.0243	0.1638	0.5553	-0.0203	0.1694	-0.0365	0.3051
32	11.21	-0.04	0.0724	-0.0015	0.0111	-0.0214	0.1537	0.5779	-0.0208	0.1752	-0.0360	0.3031
33	11.60	-0.01	0.0743	-0.0020	0.0135	-0.0269	0.1811	0.6062	-0.0208	0.1843	-0.0343	0.3040
34	11.98	-0.03	0.0746	-0.0017	0.0135	-0.0228	0.1804	0.6334	-0.0208	0.1913	-0.0328	0.3020
35	12.34	-0.03	0.0725	-0.0017	0.0176	-0.0234	0.2422	0.6514	-0.0200	0.1988	-0.0307	0.3051
36	12.71	-0.03	0.0820	-0.0010	0.0126	-0.0128	0.1539	0.6754	-0.0199	0.2074	-0.0295	0.3072
37	13.06	-0.05	0.0804	-0.0015	0.0154	-0.0187	0.1914	0.6896	-0.0197	0.2121	-0.0286	0.3076
38	13.43	-0.04	0.0781	-0.0011	0.0137	-0.0147	0.1757	0.7085	-0.0197	0.2179	-0.0279	0.3075
39	13.79	-0.03	0.0769	-0.0015	0.0158	-0.0195	0.2058	0.7259	-0.0195	0.2233	-0.0269	0.3076
40	14.17	-0.06	0.0869	-0.0010	0.0160	-0.0115	0.1836	0.7439	-0.0190	0.2295	-0.0256	0.3085
41	14.50	-0.05	0.0861	-0.0017	0.0167	-0.0197	0.1938	0.7595	-0.0186	0.2343	-0.0245	0.3085
42	14.89	-0.07	0.0917	-0.0020	0.0179	-0.0224	0.1947	0.7727	-0.0178	0.2392	-0.0230	0.3095
43	15.25	-0.07	0.0919	-0.0023	0.0177	-0.0235	0.1810	0.7890	-0.0167	0.2426	-0.0212	0.3075
44	15.59	-0.05	0.0910	-0.0020	0.0178	-0.0225	0.1959	0.8016	-0.0173	0.2479	-0.0216	0.3093
45	15.94	-0.07	0.0964	-0.0020	0.0197	-0.0207	0.2046	0.8245	-0.0169	0.2545	-0.0205	0.3086
46	16.28	-0.05	0.0854	-0.0020	0.0195	-0.0240	0.1857	0.8464	-0.0168	0.2607	-0.0199	0.3079

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RND-6 PHI CONF L DEL1 OEL2 DEL3 OEL4 TRANSITION
6 55 1.05 1.7 0.0 0.2MZF12 16.750 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CMF3	CM3	CB3	XCPF3	YCPF3	CMF4	CM4	CB4	XCPF4	YCPF4
47	16.61	-0.06	0.0911	-0.0014	0.0177	-0.0159	0.1938	0.8656	-0.0158	0.2655	-0.0182	0.3068
48	16.95	-0.07	0.0964	-0.0020	0.0187	-0.0207	0.2046	0.8862	-0.0165	0.2736	-0.0186	0.3087
49	17.27	-0.06	0.0912	-0.0014	0.0177	-0.0159	0.1940	0.9093	-0.0166	0.2801	-0.0183	0.3080
50	17.60	-0.06	0.0975	-0.0009	0.0197	-0.0097	0.2019	0.9313	-0.0151	0.2887	-0.0163	0.3100
51	17.92	-0.08	0.0977	-0.0006	0.0198	-0.0067	0.2022	0.9472	-0.0161	0.2913	-0.0149	0.3076
52	18.28	-0.07	0.0983	-0.0006	0.0198	-0.0061	0.2010	0.9599	-0.0137	0.2984	-0.0143	0.3108
53	18.59	-0.07	0.0986	-0.0001	0.0195	-0.0010	0.2014	0.9719	-0.0134	0.3012	-0.0138	0.3099
54	18.94	-0.06	0.0931	-0.0001	0.0179	-0.0011	0.1925	1.0006	-0.0130	0.3075	-0.0130	0.3073
55	19.26	-0.06	0.1126	-0.0005	0.0183	-0.0049	0.1627	1.0285	-0.0134	0.3163	-0.0130	0.3077
56	19.59	-0.07	0.0980	-0.0009	0.0199	-0.0097	0.2026	1.0457	-0.0148	0.3178	-0.0142	0.3039
57	19.94	-0.06	0.1194	-0.0010	0.0218	-0.0084	0.1625	1.0570	-0.0130	0.3214	-0.0142	0.3041
58	20.27	-0.07	0.1093	0.0004	0.0220	0.0037	0.2015	1.0667	-0.0154	0.3230	-0.0145	0.3034
59	20.62	-0.06	0.1128	-0.0000	0.0195	-0.0004	0.1728	1.0753	-0.0155	0.3246	-0.0144	0.3019
60	20.95	-0.06	0.1147	0.0	0.0273	0.0	0.2382	1.0938	-0.0159	0.3290	-0.0145	0.3008
61	21.32	-0.06	0.1150	-0.0005	0.0252	-0.0043	0.2193	1.0992	-0.0149	0.3319	-0.0136	0.3019
62	21.66	-0.07	0.1159	-0.0004	0.0232	-0.0035	0.2003	1.1013	-0.0146	0.3330	-0.0133	0.3023
63	21.98	-0.06	0.1293	-0.0008	0.0280	-0.0066	0.2164	1.1164	-0.0160	0.3332	-0.0144	0.2985
64	22.31	-0.05	0.1232	0.0008	0.0285	0.0049	0.2318	1.1264	-0.0150	0.3380	-0.0133	0.3005
65	22.61	-0.07	0.1238	0.0004	0.0287	0.0032	0.2322	1.1394	-0.0151	0.3402	-0.0133	0.2986
66	22.88	-0.09	0.1375	0.0009	0.0294	0.0063	0.2139	1.1494	-0.0161	0.3458	-0.0123	0.3009
67	23.25	-0.08	0.1258	0.0012	0.0291	0.0099	0.2315	1.1543	-0.0147	0.3452	-0.0127	0.2991
68	23.55	-0.07	0.1266	0.0012	0.0294	0.0099	0.2321	1.1577	-0.0145	0.3457	-0.0125	0.2986
69	23.91	-0.08	0.1377	0.0014	0.0283	0.0105	0.2054	1.1675	-0.0143	0.3495	-0.0122	0.2994
70	24.21	-0.08	0.1393	0.0019	0.0320	0.0136	0.2298	1.1824	-0.0145	0.3545	-0.0123	0.2998
71	24.57	-0.09	0.1579	0.0019	0.0347	0.0138	0.2526	1.2080	-0.0143	0.3607	-0.0119	0.2986
72	24.89	-0.09	0.1512	0.0023	0.0344	0.0152	0.2274	1.2280	-0.0147	0.3658	-0.0120	0.2979
73	25.18	-0.09	0.1484	0.0017	0.0311	0.0115	0.2099	1.2369	-0.0145	0.3675	-0.0117	0.2971
74	25.55	-0.09	0.1506	0.0019	0.0313	0.0129	0.2077	1.2330	-0.0151	0.3662	-0.0123	0.2970
75	25.83	-0.10	0.1467	0.0018	0.0308	0.0126	0.2098	1.2434	-0.0139	0.3682	-0.0112	0.2961
76	26.13	-0.08	0.1586	0.0028	0.0331	0.0180	0.2090	1.2501	-0.0139	0.3691	-0.0111	0.2952
77	26.44	-0.10	0.1606	0.0028	0.0347	0.0177	0.2162	1.2543	-0.0135	0.3714	-0.0108	0.2961
78	26.75	-0.11	0.1572	0.0025	0.0352	0.0162	0.2238	1.2671	-0.0132	0.3731	-0.0105	0.2945
79	27.03	-0.10	0.1527	0.0030	0.0383	0.0200	0.2507	1.2802	-0.0118	0.3787	-0.0093	0.2958
80	27.37	-0.10	0.1469	0.0019	0.0308	0.0133	0.2100	1.2939	-0.0119	0.3838	-0.0092	0.2967
81	27.71	-0.10	0.1529	0.0022	0.0320	0.0147	0.2096	1.3182	-0.0111	0.3890	-0.0084	0.2951
82	28.01	-0.08	0.1475	0.0024	0.0301	0.0166	0.2044	1.3228	-0.0109	0.3925	-0.0082	0.2967
83	28.30	-0.09	0.1492	0.0032	0.0337	0.0214	0.2260	1.3324	-0.0107	0.3966	-0.0080	0.2976
84	28.60	-0.07	0.1567	0.0028	0.0317	0.0182	0.2024	1.3487	-0.0109	0.3994	-0.0081	0.2961
85	28.92	-0.09	0.1473	0.0024	0.0305	0.0166	0.2097	1.3556	-0.0111	0.4011	-0.0082	0.2959
86	29.26	-0.10	0.1655	0.0039	0.0344	0.0236	0.2081	1.3666	-0.0110	0.4043	-0.0080	0.2958
87	29.58	-0.12	0.1717	0.0039	0.0350	0.0230	0.2039	1.3672	-0.0108	0.4062	-0.0079	0.2971
88	29.91	-0.15	0.1778	0.0038	0.0356	0.0216	0.2005	1.3765	-0.0115	0.4084	-0.0084	0.2967
89	30.20	-0.05	0.1740	0.0039	0.0367	0.0227	0.2108	1.3836	-0.0108	0.4096	-0.0078	0.2960

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6	56	1.01	1.7	0.0	B2M2F12	16.750	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.81	-0.05	-0.5686	0.2262	0.0139	-0.1254	0.0220	0.3338	-0.3977	
2	-2.81	0.01	-0.5523	0.1973	0.1184	-0.1987	0.0220	0.3306	-0.3573	
3	-2.65	0.0	-0.5287	0.2233	0.0323	-0.1092	0.0250	0.3361	-0.4223	
4	-2.01	-0.06	-0.4017	0.1485	0.0840	0.0124	0.0220	0.3398	-0.3696	
5	-1.39	-0.04	-0.2611	0.0525	0.0743	-0.1120	0.0240	0.3371	-0.2012	
6	-0.82	-0.04	-0.0914	0.0220	0.0336	-0.0820	0.0170	0.3367	-0.2403	
7	-0.28	-0.02	-0.0178	0.0139	0.1482	-0.0345	0.0190	0.3488	-0.7820	
8	0.28	0.01	0.0906	0.0232	0.1700	-0.0320	0.0180	0.3481	0.2556	
9	0.78	0.0	0.1719	0.0153	0.1486	-0.0310	0.0210	0.3485	0.0892	
10	1.31	-0.01	0.2978	-0.0061	0.1092	-0.1059	0.0180	0.3476	0.0204	
11	1.85	0.0	0.3966	-0.0334	0.1408	-0.0871	0.0240	0.3478	-0.0841	
12	2.32	-0.02	0.5081	-0.0925	0.0583	-0.1116	0.0240	0.3453	-0.1820	
13	2.83	-0.01	0.6519	-0.2218	0.1236	-0.0590	0.0210	0.3469	-0.3402	
14	3.31	-0.01	0.7697	-0.2927	0.0523	-0.0412	0.0250	0.3431	-0.3803	
15	3.79	0.0	0.8645	-0.3954	0.0375	0.0045	0.0260	0.3371	-0.4574	
16	4.26	-0.01	1.0362	-0.5547	0.0829	-0.0580	0.0220	0.3370	-0.5354	
17	4.73	-0.01	1.1431	-0.6754	0.1315	-0.0191	0.0250	0.3415	-0.5909	
18	5.18	-0.01	1.2770	-0.8260	0.1351	-0.1191	0.0250	0.3530	-0.6468	
19	5.63	-0.01	1.4425	-0.9517	0.1103	-0.1354	0.0290	0.3480	-0.6597	
20	6.09	-0.01	1.5605	-1.1248	0.0540	0.0084	0.0280	0.3571	-0.7208	
21	6.55	-0.04	1.6832	-1.2156	0.0292	-0.0189	0.0280	0.3510	-0.7222	
22	7.04	-0.02	1.8432	-1.3796	0.0095	-0.0863	0.0270	0.3443	-0.7485	
23	7.48	-0.04	1.9862	-1.5499	0.0644	-0.0332	0.0280	0.3386	-0.7803	
24	7.92	-0.01	2.0920	-1.7080	0.0594	-0.0761	0.0260	0.3527	-0.8164	
25	8.35	-0.02	2.2378	-1.8861	0.1355	-0.0667	0.0250	0.3554	-0.8428	
26	8.78	-0.01	2.4255	-2.1358	0.0665	0.0059	0.0270	0.3639	-0.8806	
27	9.20	-0.07	2.5033	-2.2447	-0.0402	-0.0207	0.0320	0.3674	-0.8967	
28	9.60	-0.01	2.6461	-2.4286	-0.0365	-0.0639	0.0250	0.3670	-0.9178	
29	10.04	-0.03	2.7644	-2.5764	0.1863	-0.0668	0.0280	0.3677	-0.9320	
30	10.43	-0.03	2.9160	-2.7586	0.0651	0.0149	0.0270	0.3375	-0.9460	
31	10.86	-0.01	3.0386	-2.9262	0.0520	-0.0498	0.0350	0.3143	-0.9630	
32	11.24	-0.01	3.1117	-2.9566	0.0770	-0.0138	0.0280	0.3098	-0.9501	
33	11.64	-0.04	3.2181	-3.1355	0.0195	-0.0263	0.0320	0.3142	-0.9743	
34	12.01	-0.03	3.4069	-3.3338	0.0810	-0.0414	0.0300	0.3040	-0.9706	
35	12.37	-0.03	3.5207	-3.4862	0.1126	-0.0496	0.0320	0.3032	-0.9902	
36	12.73	-0.02	3.6382	-3.6297	0.1595	-0.0573	0.0350	0.2970	-0.9977	
37	13.09	-0.05	3.7851	-3.7723	0.0252	-0.0713	0.0250	0.2955	-0.9966	
38	13.46	-0.04	3.9448	-3.9839	0.0484	0.0122	0.0370	0.2902	-1.0099	
39	13.83	-0.05	4.1182	-4.2276	0.0884	-0.0178	0.0290	0.2889	-1.0266	
40	14.20	-0.06	4.2089	-4.3047	0.0188	-0.0213	0.0290	0.2864	-1.0228	
41	14.53	-0.07	4.3699	-4.5071	-0.0409	0.0263	0.0380	0.2900	-1.0314	
42	14.92	-0.05	4.4875	-4.6387	0.0255	0.0543	0.0340	0.2924	-1.0337	
43	15.27	-0.06	4.5970	-4.8200	0.0140	-0.0166	0.0240	0.2962	-1.0485	
44	15.62	-0.05	4.7501	-5.0203	0.0008	0.0969	0.0270	0.2967	-1.0569	
45	15.95	-0.06	4.8934	-5.2107	-0.0173	0.0542	0.0260	0.2745	-1.0644	
46	16.28	-0.05	5.0386	-5.4253	0.0535	0.0701	0.0340	0.2680	-1.0767	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AK10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	56	1.01	1.7	0.0	R2NF12	16.750	0	0	0	FIXED
PGINT	ALPHA	BETA	CM	CLM	CV	CLN	CLL	CAF	XCP	
47	16.62	-0.06	5.1557	-5.5702	-0.0273	0.1012	0.0350	0.2620	-1.0004	
48	16.96	-0.09	5.2926	-5.7399	-0.0517	0.0604	0.0230	0.2590	-1.0045	
49	17.28	-0.09	5.3940	-5.8838	-0.1623	0.1012	0.0230	0.2561	-1.0908	
50	17.60	-0.06	5.5231	-6.0765	0.0243	0.1070	0.0200	0.2512	-1.1002	
51	17.96	-0.07	5.6866	-6.2564	-0.0532	0.1625	0.0120	0.2409	-1.1002	
52	18.29	-0.07	5.8193	-6.4193	-0.0516	0.1502	0.0100	0.2302	-1.1031	
53	18.61	-0.07	5.9322	-6.5883	-0.0533	0.1806	0.0220	0.2225	-1.1106	
54	18.95	-0.08	6.0286	-6.7553	-0.0649	0.0928	0.0160	0.2092	-1.1205	
55	19.28	-0.07	6.1835	-6.9611	-0.0268	0.2085	0.0130	0.2003	-1.1250	
56	19.50	-0.07	6.3065	-7.1103	-0.0566	0.2752	0.0080	0.1905	-1.1275	
57	19.93	-0.08	6.4329	-7.2712	-0.0916	0.1792	0.0100	0.1814	-1.1303	
58	20.26	-0.07	6.5674	-7.4256	-0.0665	0.2261	0.0060	0.1737	-1.1307	
59	20.61	-0.08	6.6754	-7.5178	-0.0713	0.1908	0.0030	0.1649	-1.1262	
60	20.94	-0.08	6.8321	-7.6752	-0.0894	0.2371	-0.0020	0.1574	-1.1234	
61	21.27	-0.07	6.8914	-7.7702	-0.0660	0.2104	-0.0090	0.1587	-1.1275	
62	21.63	-0.08	7.1169	-7.8769	-0.1389	0.2244	-0.0120	0.1644	-1.1060	
63	21.96	-0.06	7.2492	-7.9351	0.0120	0.2002	-0.0040	0.1716	-1.0946	
64	22.30	-0.07	7.3449	-7.8692	-0.0504	0.2175	-0.0240	0.1865	-1.0714	
65	22.62	-0.07	7.4724	-7.8717	-0.0564	0.2649	-0.0170	0.1857	-1.0534	
66	22.91	-0.06	7.5612	-7.8600	0.0189	0.2575	-0.0140	0.1911	-1.0395	
67	23.25	-0.08	7.6646	-7.8688	-0.0268	0.2335	-0.0250	0.1876	-1.0266	
68	23.56	-0.09	7.7874	-7.8637	-0.0561	0.1635	-0.0120	0.1805	-1.0098	
69	23.88	-0.08	7.8960	-7.8898	0.0140	0.1574	-0.0230	0.1732	-0.9992	
70	24.22	-0.08	8.0416	-8.0017	0.0027	0.1862	-0.0210	0.1581	-0.9950	
71	24.53	-0.09	8.1702	-8.0958	-0.0683	0.2316	-0.0080	0.1443	-0.9909	
72	24.87	-0.09	8.3273	-8.3167	-0.0550	0.2900	-0.0350	0.1162	-0.9987	
73	25.15	-0.10	8.5378	-8.4084	-0.1162	0.2816	-0.0310	0.1106	-0.9848	
74	25.49	-0.09	8.6012	-8.4531	-0.0393	0.1670	-0.0420	0.1061	-0.9828	
75	25.79	-0.09	8.7673	-8.4966	-0.0668	0.3605	-0.0570	0.1042	-0.9691	
76	26.08	-0.08	8.9318	-8.6421	-0.1409	0.5012	-0.0170	0.1066	-0.9676	
77	26.41	-0.08	9.0862	-8.5602	-0.0368	0.3115	-0.0790	0.1200	-0.9421	
78	26.72	-0.09	9.2456	-8.5674	-0.1428	0.4299	-0.0740	0.1457	-0.9266	
79	27.03	-0.08	9.3838	-8.5189	-0.1131	0.5483	-0.0720	0.1670	-0.9078	
80	27.37	-0.09	9.5404	-8.4141	-0.1300	0.3700	-0.0770	0.1850	-0.8820	
81	27.68	-0.09	9.6330	-8.3759	-0.2046	0.6814	-0.0780	0.1962	-0.8695	
82	28.01	-0.10	9.7366	-8.3990	-0.2150	0.5869	-0.0820	0.1894	-0.8626	
83	28.31	-0.08	9.8652	-8.4620	-0.0717	0.3753	-0.0990	0.1841	-0.8578	
84	28.61	-0.09	9.9716	-8.4518	-0.2677	0.8897	-0.0970	0.1554	-0.8491	
85	28.91	-0.06	10.0093	-8.4937	-0.0565	0.6488	-0.1130	0.1411	-0.8466	
86	29.25	-0.11	10.2390	-8.6003	-0.1251	0.3211	-0.1070	0.1199	-0.8400	
87	29.55	-0.06	10.3313	-8.6565	0.0292	0.5011	-0.1120	0.0962	-0.8379	
88	29.86	-0.11	10.4961	-8.6954	0.0211	-0.1005	-0.1080	0.0680	-0.8284	
89	30.17	-0.08	10.6448	-8.6855	0.0944	0.0078	-0.1200	0.0475	-0.8150	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 56 1.01 1.7 0.0 B2W2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	L81	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	-2.81	-0.05	-0.2975	0.0011	0.0578	-0.0037	-0.1943	-0.0510	0.0058	-0.0350	-0.1137	0.6862
2	-2.81	0.01	-0.3205	0.0010	0.0653	-0.0033	-0.2036	-0.0501	0.0057	-0.0329	-0.1138	0.6566
3	-2.65	0.0	-0.2930	0.0011	0.0573	-0.0038	-0.1956	-0.0474	0.0053	-0.0324	-0.1118	0.6834
4	-2.01	-0.06	-0.3258	0.0011	0.0658	-0.0034	-0.2019	-0.0315	0.0033	-0.0235	-0.1063	0.7459
5	-1.39	-0.04	-0.3316	0.0012	0.0665	-0.0036	-0.2004	-0.0167	0.0017	-0.0163	-0.1018	0.9739
6	-0.82	-0.04	-0.2839	0.0010	0.0563	-0.0035	-0.1981	-0.0030	0.0003	-0.0103	-0.1166	3.4332
7	-0.28	-0.02	-0.3185	0.0011	0.0649	-0.0035	-0.2038	0.0028	-0.0003	-0.0057	-0.1071	-2.0239
8	0.28	0.01	-0.2625	0.0011	0.0489	-0.0042	-0.1864	0.0104	-0.0006	-0.0032	-0.0577	-0.3110
9	0.78	0.0	-0.2883	0.0011	0.0567	-0.0038	-0.1966	0.0193	-0.0012	0.0000	-0.0648	0.0016
10	1.31	-0.01	-0.2611	0.0011	0.0488	-0.0042	-0.1869	0.0293	-0.0024	0.0050	-0.0836	0.1694
11	1.85	0.0	-0.2686	0.0012	0.0497	-0.0047	-0.1850	0.0365	-0.0035	0.0101	-0.0959	0.2757
12	2.32	-0.02	-0.2559	0.0010	0.0482	-0.0041	-0.1885	0.0505	-0.0049	0.0160	-0.0980	0.3174
13	2.83	-0.01	-0.2852	0.0010	0.0564	-0.0037	-0.1978	0.0682	-0.0065	0.0240	-0.0953	0.3523
14	3.31	-0.01	-0.2666	0.0012	0.0495	-0.0045	-0.1855	0.0807	-0.0077	0.0303	-0.0954	0.3753
15	3.79	0.0	-0.2696	0.0012	0.0499	-0.0045	-0.1850	0.0957	-0.0089	0.0378	-0.0930	0.3949
16	4.26	-0.01	-0.2656	0.0012	0.0494	-0.0045	-0.1860	0.1147	-0.0102	0.0462	-0.0889	0.4030
17	4.73	-0.01	-0.2612	0.0011	0.0490	-0.0042	-0.1875	0.1313	-0.0112	0.0527	-0.0853	0.4018
18	5.18	-0.01	-0.2699	0.0012	0.0495	-0.0044	-0.1848	0.1527	-0.0124	0.0623	-0.0815	0.4079
19	5.63	-0.01	-0.3277	0.0012	0.0662	-0.0037	-0.2019	0.1744	-0.0137	0.0708	-0.0788	0.4060
20	6.09	-0.01	-0.2786	0.0013	0.0509	-0.0047	-0.1828	0.1920	-0.0146	0.0785	-0.0760	0.4087
21	6.55	-0.04	-0.3360	0.0013	0.0671	-0.0039	-0.1997	0.2132	-0.0151	0.0870	-0.0708	0.4083
22	7.04	-0.02	-0.2851	0.0014	0.0516	-0.0051	-0.1808	0.2317	-0.0154	0.0953	-0.0665	0.4113
23	7.48	-0.04	-0.2828	0.0013	0.0512	-0.0048	-0.1811	0.2525	-0.0156	0.1032	-0.0620	0.4089
24	7.92	-0.01	-0.2814	0.0013	0.0510	-0.0046	-0.1812	0.2701	-0.0159	0.1102	-0.0590	0.4080
25	8.35	-0.02	-0.2811	0.0013	0.0510	-0.0046	-0.1814	0.2980	-0.0162	0.1178	-0.0543	0.3953
26	8.78	-0.01	-0.2894	0.0014	0.0518	-0.0050	-0.1790	0.3223	-0.0168	0.1292	-0.0521	0.4008
27	9.20	-0.07	-0.3376	0.0013	0.0665	-0.0040	-0.1980	0.3386	-0.0169	0.1344	-0.0499	0.3970
28	9.60	-0.01	-0.2857	0.0014	0.0514	-0.0049	-0.1797	0.3605	-0.0173	0.1424	-0.0481	0.3951
29	10.04	-0.03	-0.2811	0.0013	0.0508	-0.0048	-0.1807	0.3802	-0.0176	0.1504	-0.0463	0.3955
30	10.43	-0.03	-0.3024	0.0012	0.0580	-0.0041	-0.1917	0.4004	-0.0180	0.1575	-0.0449	0.3934
31	10.86	-0.01	-0.2817	0.0013	0.0510	-0.0048	-0.1810	0.4110	-0.0181	0.1625	-0.0441	0.3952
32	11.24	-0.01	-0.2746	0.0012	0.0502	-0.0045	-0.1826	0.4283	-0.0185	0.1661	-0.0432	0.3878
33	11.64	-0.04	-0.2672	0.0011	0.0495	-0.0041	-0.1851	0.4440	-0.0189	0.1723	-0.0427	0.3882
34	12.01	-0.03	-0.2740	0.0012	0.0503	-0.0046	-0.1836	0.4618	-0.0192	0.1803	-0.0416	0.3904
35	12.37	-0.03	-0.2772	0.0013	0.0507	-0.0047	-0.1828	0.4820	-0.0194	0.1853	-0.0403	0.3844
36	12.73	-0.02	-0.2750	0.0013	0.0504	-0.0047	-0.1833	0.4949	-0.0196	0.1895	-0.0397	0.3829
37	13.09	-0.05	-0.2897	0.0015	0.0521	-0.0052	-0.1799	0.5102	-0.0198	0.1955	-0.0389	0.3832
38	13.46	-0.04	-0.2490	0.0009	0.0475	-0.0036	-0.1909	0.5261	-0.0195	0.1998	-0.0371	0.3798
39	13.83	-0.05	-0.2344	0.0007	0.0459	-0.0030	-0.1958	0.5490	-0.0189	0.2084	-0.0344	0.3797
40	14.20	-0.06	-0.2119	0.0003	0.0433	-0.0017	-0.2043	0.5607	-0.0183	0.2124	-0.0326	0.3789
41	14.53	-0.07	-0.2308	0.0006	0.0455	-0.0028	-0.1971	0.5864	-0.0176	0.2182	-0.0301	0.3721
42	14.92	-0.05	-0.2314	0.0002	0.0503	-0.0009	-0.2173	0.5992	-0.0172	0.2235	-0.0287	0.3729
43	15.27	-0.06	-0.1968	0.0001	0.0416	-0.0008	-0.2115	0.6240	-0.0166	0.2279	-0.0267	0.3653
44	15.62	-0.05	-0.1964	0.0001	0.0415	-0.0008	-0.2116	0.6393	-0.0164	0.2335	-0.0256	0.3653
45	15.95	-0.06	-0.2250	0.0001	0.0495	-0.0004	-0.2201	0.6615	-0.0160	0.2385	-0.0243	0.3606
46	16.28	-0.05	-0.2436	0.0	0.0564	0.0	-0.2316	0.6830	-0.0146	0.2460	-0.0214	0.3602

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	56	1.01	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	C81	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2	
47	16.62	-0.06	-0.1717	-0.0002	0.0387	0.0012	-0.2253	0.7026	-0.0150	0.2509	-0.0213	0.3571	
48	16.96	-0.08	-0.2235	-0.0002	0.0542	0.0011	-0.2426	0.7211	-0.0145	0.2564	-0.0201	0.3555	
49	17.28	-0.09	-0.1904	-0.0004	0.0456	0.0021	-0.2398	0.7397	-0.0142	0.2606	-0.0192	0.3523	
50	17.60	-0.06	-0.2034	-0.0006	0.0520	0.0029	-0.2558	0.7575	-0.0140	0.2648	-0.0185	0.3496	
51	17.94	-0.07	-0.1475	-0.0006	0.0360	0.0041	-0.2444	0.7777	-0.0133	0.2715	-0.0171	0.3492	
52	18.29	-0.07	-0.1228	-0.0010	0.0334	0.0081	-0.2718	0.7939	-0.0134	0.2757	-0.0169	0.3473	
53	18.61	-0.07	-0.1317	-0.0008	0.0343	0.0065	-0.2606	0.8092	-0.0134	0.2781	-0.0166	0.3437	
54	18.95	-0.08	-0.1606	-0.0007	0.0424	0.0047	-0.2639	0.8325	-0.0127	0.2847	-0.0152	0.3420	
55	19.28	-0.07	-0.1394	-0.0006	0.0352	0.0047	-0.2529	0.8527	-0.0124	0.2895	-0.0146	0.3395	
56	19.59	-0.07	-0.1481	-0.0010	0.0411	0.0068	-0.2779	0.8713	-0.0117	0.2948	-0.0135	0.3384	
57	19.93	-0.08	-0.1296	-0.0008	0.0342	0.0066	-0.2640	0.8886	-0.0113	0.2996	-0.0127	0.3372	
58	20.26	-0.07	-0.1004	-0.0013	0.0309	0.0129	-0.3082	0.9019	-0.0112	0.3024	-0.0125	0.3353	
59	20.61	-0.08	-0.1108	-0.0011	0.0322	0.0099	-0.2904	0.9230	-0.0110	0.3064	-0.0119	0.3319	
60	20.94	-0.08	-0.0887	-0.0015	0.0296	0.0169	-0.3342	0.9362	-0.0110	0.3098	-0.0117	0.3309	
61	21.27	-0.07	-0.0888	-0.0015	0.0297	0.0169	-0.3346	0.9476	-0.0113	0.3126	-0.0119	0.3298	
62	21.63	-0.08	-0.0653	-0.0019	0.0270	0.0291	-0.4141	0.9707	-0.0120	0.3200	-0.0124	0.3296	
63	21.96	-0.06	-0.0712	-0.0017	0.0277	0.0246	-0.3887	0.9829	-0.0132	0.3225	-0.0135	0.3281	
64	22.30	-0.07	-0.0505	-0.0020	0.0254	0.0406	-0.5024	0.9939	-0.0147	0.3239	-0.0148	0.3259	
65	22.62	-0.07	-0.0445	-0.0022	0.0247	0.0494	-0.5544	0.9915	-0.0155	0.3235	-0.0156	0.3263	
66	22.91	-0.06	-0.0356	-0.0023	0.0235	0.0646	-0.6612	0.9851	-0.0165	0.3196	-0.0168	0.3244	
67	23.25	-0.08	-0.0498	-0.0025	0.0300	0.0502	-0.6025	0.9950	-0.0162	0.3211	-0.0163	0.3227	
68	23.56	-0.09	-0.0355	-0.0023	0.0235	0.0648	-0.6612	0.9929	-0.0167	0.3219	-0.0169	0.3242	
69	23.88	-0.08	-0.0354	-0.0023	0.0234	0.0650	-0.6611	0.9918	-0.0169	0.3208	-0.0170	0.3234	
70	24.22	-0.08	-0.0266	-0.0025	0.0224	0.0938	-0.8435	1.0114	-0.0157	0.3248	-0.0156	0.3212	
71	24.53	-0.09	-0.0309	-0.0026	0.0230	0.0841	-0.7445	1.0162	-0.0147	0.3275	-0.0145	0.3223	
72	24.87	-0.09	-0.0263	-0.0031	0.0274	0.1198	-1.0432	1.0443	-0.0115	0.3345	-0.0110	0.3203	
73	25.15	-0.10	-0.0264	-0.0031	0.0275	0.1193	-1.0418	1.0660	-0.0098	0.3412	-0.0092	0.3201	
74	25.49	-0.09	-0.0265	-0.0030	0.0276	0.1151	-1.0404	1.0860	-0.0075	0.3453	-0.0069	0.3179	
75	25.79	-0.09	0.0217	-0.0034	0.0172	-0.1590	0.7940	1.0998	-0.0055	0.3467	-0.0050	0.3152	
76	26.08	-0.08	-0.0150	-0.0029	0.0214	0.1933	-1.4268	1.1121	-0.0064	0.3506	-0.0058	0.3152	
77	26.41	-0.08	0.0147	-0.0038	0.0230	-0.2585	1.5645	1.1288	-0.0051	0.3526	-0.0045	0.3124	
78	26.72	-0.09	0.0806	-0.0044	0.0107	-0.0552	0.1322	1.1232	-0.0080	0.3546	-0.0072	0.3157	
79	27.03	-0.08	0.0385	-0.0047	0.0251	-0.1221	0.6527	1.1341	-0.0098	0.3567	-0.0086	0.3145	
80	27.37	-0.09	0.0321	-0.0041	0.0208	-0.1293	0.6479	1.1437	-0.0091	0.3589	-0.0080	0.3138	
81	27.68	-0.09	0.0364	-0.0043	0.0202	-0.1181	0.5557	1.1487	-0.0111	0.3607	-0.0097	0.3140	
82	28.01	-0.10	0.0378	-0.0044	0.0199	-0.1164	0.5263	1.1550	-0.0112	0.3613	-0.0097	0.3128	
83	28.31	-0.08	0.0805	-0.0045	0.0103	-0.0559	0.1282	1.1679	-0.0102	0.3636	-0.0087	0.3113	
84	28.61	-0.09	0.0756	-0.0056	0.0205	-0.0741	0.2710	1.1686	-0.0092	0.3642	-0.0079	0.3117	
85	28.91	-0.08	0.1226	-0.0057	0.0104	-0.0465	0.0844	1.1894	-0.0065	0.3670	-0.0055	0.3086	
86	29.25	-0.11	0.1092	-0.0048	0.0071	-0.0439	0.0649	1.2061	-0.0033	0.3718	-0.0028	0.3083	
87	29.55	-0.06	0.0997	-0.0051	0.0130	-0.0516	0.1306	1.2197	0.0003	0.3725	0.0003	0.3054	
88	29.86	-0.11	0.1008	-0.0043	0.0081	-0.0427	0.0802	1.2418	0.0104	0.3747	0.0084	0.3017	
89	30.17	-0.08	0.0462	-0.0040	0.0191	-0.0866	0.4133	1.2462	0.0107	0.3757	0.0086	0.3014	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	56	1.01	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	Cn4	C84	XCPF4	YCPF4
1	-2.81	-0.05	0.0403	0.0015	-0.0047	0.0385	-0.1159	-0.0384	0.0066	-0.0286	-0.1718	0.7447
2	-2.81	0.01	0.0367	0.0016	-0.0043	0.0450	-0.1164	-0.0345	0.0066	-0.0286	-0.1927	0.8289
3	-2.65	0.0	0.0370	0.0015	-0.0049	0.0419	-0.1317	-0.0312	0.0061	-0.0275	-0.1955	0.8813
4	-2.01	-0.06	0.0510	0.0015	-0.0058	0.0304	-0.1138	-0.0088	0.0042	-0.0196	-0.4829	2.2309
5	-1.39	-0.04	0.0473	0.0012	-0.0054	0.0264	-0.1150	0.0094	0.0029	-0.0142	0.3085	-1.5072
6	-0.82	-0.04	0.0400	0.0011	-0.0046	0.0287	-0.1143	0.0255	0.0011	-0.0084	0.0451	-0.3295
7	-0.28	-0.02	0.0400	0.0009	-0.0046	0.0237	-0.1143	0.0384	0.0002	-0.0061	0.0052	-0.1590
8	0.28	0.01	0.0471	0.0006	-0.0054	0.0138	-0.1148	0.0457	-0.0005	-0.0031	-0.0109	-0.0672
9	0.78	0.0	0.0382	0.0002	-0.0017	0.0065	-0.0437	0.0615	-0.0017	0.0006	-0.0276	0.0096
10	1.31	-0.01	0.0346	0.0002	-0.0013	0.0072	-0.0367	0.0739	-0.0031	0.0034	-0.0426	0.0463
11	1.85	0.0	0.0490	0.0001	-0.0029	0.0031	-0.0586	0.0002	-0.0048	0.0092	-0.0532	0.1015
12	2.32	-0.02	0.0382	-0.0002	-0.0017	-0.0065	-0.0437	0.1119	-0.0064	0.0144	-0.0576	0.1286
13	2.83	-0.01	0.0366	-0.0005	0.0012	-0.0150	0.0327	0.1344	-0.0079	0.0232	-0.0567	0.1668
14	3.31	-0.01	0.0506	-0.0009	0.0003	-0.0178	0.0052	0.1543	-0.0096	0.0295	-0.0622	0.1913
15	3.79	0.0	0.0438	-0.0009	0.0004	-0.0205	0.0090	0.1734	-0.0105	0.0353	-0.0608	0.2035
16	4.26	-0.01	0.0467	-0.0009	0.0014	-0.0193	0.0291	0.1978	-0.0117	0.0437	-0.0591	0.2210
17	4.73	-0.01	0.0462	-0.0012	0.0022	-0.0260	0.0475	0.2222	-0.0128	0.0521	-0.0578	0.2347
18	5.18	-0.01	0.0518	-0.0017	0.0042	-0.0328	0.0803	0.2485	-0.0137	0.0603	-0.0553	0.2427
19	5.63	-0.01	0.0558	-0.0017	0.0031	-0.0305	0.0554	0.2670	-0.0146	0.0681	-0.0547	0.2549
20	6.09	-0.01	0.0543	-0.0016	0.0059	-0.0304	0.1085	0.2892	-0.0154	0.0765	-0.0532	0.2644
21	6.55	-0.04	0.0542	-0.0018	0.0059	-0.0341	0.1081	0.3105	-0.0160	0.0854	-0.0515	0.2749
22	7.04	-0.02	0.0534	-0.0018	0.0073	-0.0346	0.1366	0.3252	-0.0164	0.0926	-0.0504	0.2846
23	7.48	-0.04	0.0539	-0.0018	0.0060	-0.0343	0.1106	0.3494	-0.0166	0.1006	-0.0475	0.2880
24	7.92	-0.01	0.0564	-0.0022	0.0069	-0.0349	0.1222	0.3697	-0.0166	0.1095	-0.0450	0.2962
25	8.35	-0.02	0.0617	-0.0021	0.0096	-0.0340	0.1549	0.4012	-0.0165	0.1186	-0.0412	0.2956
26	8.78	-0.01	0.0620	-0.0021	0.0085	-0.0339	0.1429	0.4296	-0.0170	0.1272	-0.0396	0.2960
27	9.20	-0.07	0.0561	-0.0016	0.0075	-0.0294	0.1336	0.4463	-0.0171	0.1343	-0.0383	0.3010
28	9.60	-0.01	0.0711	-0.0021	0.0104	-0.0295	0.1462	0.4699	-0.0173	0.1424	-0.0368	0.3030
29	10.04	-0.03	0.0514	-0.0012	0.0099	-0.0243	0.1431	0.4868	-0.0175	0.1479	-0.0359	0.3038
30	10.43	-0.03	0.0616	-0.0016	0.0094	-0.0260	0.1530	0.5111	-0.0177	0.1577	-0.0347	0.3086
31	10.86	-0.01	0.0641	-0.0018	0.0113	-0.0281	0.1756	0.5314	-0.0183	0.1626	-0.0345	0.3059
32	11.24	-0.01	0.0644	-0.0012	0.0112	-0.0166	0.1733	0.5439	-0.0184	0.1676	-0.0339	0.3082
33	11.64	-0.04	0.0575	-0.0012	0.0121	-0.0209	0.2097	0.5634	-0.0189	0.1735	-0.0336	0.3077
34	12.01	-0.03	0.0685	-0.0011	0.0108	-0.0161	0.1580	0.5650	-0.0189	0.1818	-0.0324	0.3108
35	12.37	-0.03	0.0614	-0.0012	0.0117	-0.0195	0.1849	0.5995	-0.0192	0.1871	-0.0320	0.3120
36	12.73	-0.02	0.0688	-0.0012	0.0108	-0.0174	0.1573	0.6211	-0.0194	0.1933	-0.0313	0.3112
37	13.09	-0.05	0.0686	-0.0016	0.0110	-0.0233	0.1597	0.6333	-0.0186	0.1977	-0.0294	0.3122
38	13.46	-0.04	0.0712	-0.0015	0.0126	-0.0211	0.1773	0.6664	-0.0191	0.2069	-0.0287	0.3106
39	13.83	-0.05	0.0739	-0.0012	0.0143	-0.0162	0.1938	0.6891	-0.0181	0.2159	-0.0263	0.3133
40	14.20	-0.06	0.0685	-0.0014	0.0175	-0.0212	0.2558	0.7065	-0.0175	0.2212	-0.0248	0.3131
41	14.53	-0.07	0.0684	-0.0017	0.0175	-0.0256	0.2557	0.7249	-0.0174	0.2297	-0.0238	0.3147
42	14.92	-0.05	0.0712	-0.0015	0.0185	-0.0218	0.2602	0.7494	-0.0173	0.2344	-0.0231	0.3128
43	15.27	-0.06	0.0730	-0.0015	0.0149	-0.0212	0.2044	0.7617	-0.0168	0.2382	-0.0220	0.3127
44	15.62	-0.05	0.0682	-0.0015	0.0174	-0.0227	0.2555	0.7805	-0.0167	0.2452	-0.0214	0.3141
45	15.95	-0.06	0.0852	-0.0011	0.0175	-0.0135	0.2053	0.8026	-0.0163	0.2527	-0.0203	0.3149
46	16.28	-0.05	0.0604	-0.0011	0.0196	-0.0190	0.3249	0.8233	-0.0157	0.2597	-0.0191	0.3154

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	56	1.01	1.7	0.0	B2WZFI2	16.750	0	U	0	0	FIXED	
PUNT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	16.62	-0.06	0.0771	-0.0008	0.0138	-0.0104	0.1789	0.8414	-0.0156	0.2642	-0.0185	0.3140
48	16.96	-0.08	0.0770	-0.0011	0.0205	-0.0149	0.2657	0.8572	-0.0152	0.2688	-0.0178	0.3136
49	17.28	-0.09	0.0857	-0.0010	0.0168	-0.0122	0.1955	0.8755	-0.0153	0.2750	-0.0175	0.3141
50	17.60	-0.06	0.0971	-0.0015	0.0209	-0.0154	0.2148	0.8994	-0.0151	0.2810	-0.0168	0.3124
51	17.94	-0.07	0.0900	-0.0015	0.0217	-0.0167	0.2410	0.9156	-0.0147	0.2860	-0.0161	0.3124
52	18.29	-0.07	0.0917	-0.0011	0.0189	-0.0120	0.2056	0.9347	-0.0149	0.2917	-0.0160	0.3120
53	18.61	-0.07	0.0936	-0.0011	0.0220	-0.0118	0.2349	0.9575	-0.0150	0.2964	-0.0157	0.3095
54	18.95	-0.08	0.0975	-0.0011	0.0209	-0.0113	0.2142	0.9744	-0.0148	0.3004	-0.0152	0.3083
55	19.28	-0.07	0.0795	-0.0014	0.0230	-0.0176	0.2892	0.9885	-0.0142	0.3065	-0.0144	0.3101
56	19.59	-0.07	0.0813	-0.0011	0.0202	-0.0141	0.2483	1.0062	-0.0142	0.3114	-0.0142	0.3095
57	19.93	-0.08	0.0899	-0.0007	0.0240	-0.0078	0.2665	1.0203	-0.0130	0.3177	-0.0127	0.3114
58	20.26	-0.07	0.1012	-0.0001	0.0226	-0.0010	0.2235	1.0409	-0.0126	0.3225	-0.0121	0.3098
59	20.61	-0.08	0.0942	-0.0006	0.0228	-0.0064	0.2419	1.0475	-0.0122	0.3243	-0.0116	0.3096
60	20.94	-0.08	0.0973	-0.0001	0.0238	-0.0010	0.2448	1.0641	-0.0120	0.3301	-0.0113	0.3102
61	21.27	-0.07	0.0988	0.0000	0.0277	0.0005	0.2806	1.0835	-0.0120	0.3337	-0.0111	0.3080
62	21.63	-0.08	0.1020	0.0004	0.0287	0.0004	0.2813	1.1040	-0.0122	0.3409	-0.0111	0.3088
63	21.96	-0.06	0.0992	0.0008	0.0276	0.0086	0.2788	1.1197	-0.0127	0.3434	-0.0114	0.3067
64	22.30	-0.07	0.1053	0.0004	0.0282	0.0043	0.2677	1.1255	-0.0138	0.3437	-0.0123	0.3054
65	22.62	-0.07	0.1074	0.0008	0.0305	0.0079	0.2839	1.1385	-0.0134	0.3458	-0.0118	0.3037
66	22.91	-0.06	0.1121	0.0009	0.0338	0.0080	0.3020	1.1496	-0.0127	0.3492	-0.0110	0.3037
67	23.25	-0.08	0.1197	0.0010	0.0315	0.0084	0.2630	1.1491	-0.0125	0.3492	-0.0109	0.3039
68	23.56	-0.09	0.1104	0.0012	0.0294	0.0113	0.2707	1.1497	-0.0126	0.3495	-0.0110	0.3040
69	23.88	-0.08	0.1187	0.0013	0.0335	0.0110	0.2827	1.1677	-0.0116	0.3531	-0.0099	0.3024
70	24.22	-0.08	0.1236	0.0019	0.0310	0.0154	0.2507	1.1798	-0.0102	0.3578	-0.0086	0.3033
71	24.53	-0.09	0.1092	0.0018	0.0326	0.0169	0.2984	1.1924	-0.0084	0.3667	-0.0071	0.3074
72	24.87	-0.09	0.1098	0.0023	0.0328	0.0209	0.2986	1.2071	-0.0070	0.3713	-0.0058	0.3076
73	25.15	-0.10	0.1103	0.0025	0.0328	0.0227	0.2979	1.2216	-0.0060	0.3770	-0.0049	0.3086
74	25.49	-0.09	0.1243	0.0026	0.0327	0.0209	0.2632	1.2265	-0.0056	0.3779	-0.0046	0.3081
75	25.79	-0.09	0.1286	0.0023	0.0308	0.0179	0.2399	1.2410	-0.0044	0.3821	-0.0036	0.3079
76	26.08	-0.08	0.1060	0.0014	0.0282	0.0137	0.2662	1.2585	-0.0032	0.3863	-0.0026	0.3070
77	26.41	-0.08	0.1326	0.0025	0.0305	0.0189	0.2299	1.2670	-0.0059	0.3856	-0.0047	0.3043
78	26.72	-0.09	0.1286	0.0029	0.0315	0.0225	0.2453	1.2867	-0.0065	0.3915	-0.0051	0.3043
79	27.03	-0.08	0.1286	0.0029	0.0308	0.0225	0.2399	1.2964	-0.0075	0.3915	-0.0058	0.3020
80	27.37	-0.09	0.1273	0.0026	0.0313	0.0204	0.2460	1.2942	-0.0075	0.3902	-0.0058	0.3015
81	27.68	-0.09	0.1207	0.0022	0.0291	0.0186	0.2413	1.3076	-0.0067	0.3940	-0.0051	0.3013
82	28.01	-0.10	0.1206	0.0024	0.0350	0.0199	0.2901	1.3157	-0.0058	0.3957	-0.0044	0.3008
83	28.31	-0.08	0.1351	0.0036	0.0331	0.0266	0.2451	1.3241	-0.0055	0.3981	-0.0042	0.3007
84	28.61	-0.09	0.1261	0.0025	0.0302	0.0202	0.2396	1.3242	-0.0043	0.3984	-0.0032	0.2997
85	28.91	-0.06	0.1259	0.0028	0.0308	0.0226	0.2450	1.3342	-0.0041	0.4024	-0.0031	0.3016
86	29.25	-0.11	0.1439	0.0040	0.0361	0.0278	0.2512	1.3502	-0.0027	0.4082	-0.0020	0.3023
87	29.55	-0.06	0.1319	0.0033	0.0336	0.0250	0.2551	1.3605	-0.0016	0.4120	-0.0012	0.3029
88	29.86	-0.11	0.1615	0.0053	0.0377	0.0331	0.2335	1.3681	-0.0038	0.4111	-0.0028	0.3005
89	30.17	-0.08	0.1454	0.0045	0.0363	0.0313	0.2500	1.3578	0.0026	0.4124	0.0019	0.3038

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	57	0.85	1.7	0.0	B2W2F12	16.750	0	0	U	D	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.78	-0.02	-0.5376	0.3007	0.0445	-0.0213	0.0230	0.1743	-0.5594		
2	-2.60	-0.01	-0.5278	0.3190	0.0695	-0.0093	0.0190	0.1819	-0.6044		
3	-1.98	-0.03	-0.3430	0.1942	0.0471	0.0091	0.0220	0.1778	-0.5662		
4	-1.36	-0.03	-0.2159	0.1262	0.1407	0.0220	0.0210	0.1797	-0.5848		
5	-0.79	-0.02	-0.1250	0.0950	0.0230	0.0058	0.0200	0.1829	-0.7600		
6	-0.28	-0.01	-0.0292	0.0659	0.0914	0.0270	0.0230	0.1879	-2.2562		
7	0.29	-0.01	0.0634	0.0862	0.0605	-0.0107	0.0290	0.1885	1.3603		
8	0.79	-0.02	0.1554	0.0644	0.0194	-0.0582	0.0200	0.1912	0.6147		
9	1.30	-0.01	0.2693	0.0210	0.0507	0.0040	0.0200	0.1928	0.0779		
10	1.85	-0.02	0.3690	-0.0226	0.0281	-0.0063	0.0280	0.1941	-0.0612		
11	2.31	-0.02	0.4810	-0.1025	0.0367	-0.0064	0.0230	0.1954	-0.2131		
12	2.81	-0.02	0.6077	-0.1829	0.0183	-0.0096	0.0230	0.1920	-0.3010		
13	3.28	-0.02	0.7429	-0.2772	0.0083	-0.0094	0.0240	0.1954	-0.3731		
14	3.77	-0.01	0.8517	-0.3935	0.0498	0.0263	0.0300	0.1918	-0.4620		
15	4.23	-0.02	0.9877	-0.5668	0.0397	-0.0126	0.0280	0.1874	-0.5739		
16	4.68	-0.04	1.1074	-0.6864	0.0648	0.0203	0.0290	0.1907	-0.6199		
17	5.16	-0.04	1.2358	-0.8253	0.0858	-0.0161	0.0280	0.1841	-0.6678		
18	5.60	-0.03	1.3451	-0.9303	0.1483	-0.0016	0.0210	0.1837	-0.6916		
19	6.07	-0.03	1.5200	-1.1541	0.1341	0.0403	0.0270	0.1793	-0.7593		
20	6.52	-0.03	1.6245	-1.2664	0.1033	0.0194	0.0250	0.1816	-0.7808		
21	6.96	-0.03	1.7506	-1.3799	0.0593	0.0090	0.0280	0.1710	-0.7883		
22	7.43	-0.03	1.8750	-1.5111	0.1245	-0.0363	0.0300	0.1756	-0.8059		
23	7.84	-0.03	2.0155	-1.6899	0.0771	0.0471	0.0300	0.1744	-0.8384		
24	8.29	-0.05	2.1533	-1.9108	0.0712	-0.0497	0.0300	0.1676	-0.8874		
25	8.72	-0.05	2.2787	-2.0393	0.0777	-0.0758	0.0270	0.1575	-0.8950		
26	9.14	-0.04	2.3855	-2.1968	0.1355	0.1337	0.0190	0.1600	-0.9209		
27	9.53	-0.03	2.5376	-2.4047	0.0445	0.0307	0.0330	0.1556	-0.9477		
28	9.95	-0.06	2.6820	-2.5930	0.0364	-0.0230	0.0290	0.1510	-0.9668		
29	10.35	-0.06	2.8210	-2.7896	-0.0174	-0.0346	0.0290	0.1480	-0.9889		
30	10.76	-0.06	2.9375	-2.8987	0.0739	-0.1104	0.0270	0.1451	-0.9868		
31	11.17	-0.06	3.1077	-3.1289	0.0532	-0.0745	0.0270	0.1443	-1.0068		
32	11.50	-0.07	3.1940	-3.2147	-0.0440	-0.0214	0.0330	0.1433	-1.0065		
33	11.93	-0.05	3.4005	-3.4938	0.0116	-0.0207	0.0340	0.1365	-1.0275		
34	12.29	-0.03	3.5126	-3.6579	0.0638	-0.0273	0.0280	0.1346	-1.0413		
35	12.64	-0.04	3.6527	-3.7980	0.0059	0.0247	0.0300	0.1307	-1.0398		
36	13.01	-0.03	3.7995	-4.0715	0.0864	0.0090	0.0340	0.1250	-1.0716		
37	13.35	-0.04	3.9189	-4.2076	0.0037	0.0798	0.0360	0.1249	-1.0737		
38	13.72	-0.05	3.9991	-4.3449	0.0409	0.0207	0.0360	0.1162	-1.0865		
39	14.08	-0.04	4.1108	-4.6372	0.0720	0.1402	-0.0050	0.1182	-1.1201		
40	14.41	-0.05	4.2385	-4.7921	0.0205	0.1173	-0.0070	0.1139	-1.1306		
41	14.78	-0.05	4.3812	-4.9859	0.0142	0.1131	-0.0030	0.1097	-1.1380		
42	15.16	-0.06	4.5478	-5.1931	0.0248	0.0233	-0.0080	0.1067	-1.1419		
43	15.49	-0.06	4.6483	-5.4497	-0.0360	0.0594	0.0290	0.1049	-1.1724		
44	15.78	-0.06	4.7537	-5.6133	0.0073	0.0898	0.0270	0.1081	-1.1808		
45	16.16	-0.05	4.9310	-5.8175	0.0199	0.1621	0.0260	0.1034	-1.1798		
46	16.49	-0.07	5.0718	-6.0757	-0.0216	0.1382	0.0330	0.0925	-1.1979		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	57	0.85	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.85	-0.06	5.2242	-6.2530	-0.0090	0.1476	0.0300	0.0899	-1.1969		
48	17.12	-0.06	5.3217	-6.4055	0.0218	0.2484	0.0330	0.0861	-1.2044		
49	17.45	-0.06	5.4384	-6.5979	-0.0459	0.2332	0.0240	0.0784	-1.2132		
50	17.79	-0.07	5.5769	-6.7518	-0.0827	0.2198	0.0230	0.0698	-1.2107		
51	18.14	-0.06	5.6491	-6.9078	-0.0459	0.2152	0.0220	0.0647	-1.2228		
52	18.47	-0.06	5.8159	-7.0845	0.0099	0.2401	0.0190	0.0623	-1.2181		
53	18.83	-0.07	5.9574	-7.2515	-0.0249	0.2628	0.0200	0.0565	-1.2172		
54	19.14	-0.07	6.0449	-7.4140	-0.0847	0.2835	0.0260	0.0503	-1.2265		
55	19.44	-0.07	6.0563	-7.5915	-0.1522	0.4710	-0.0640	0.0590	-1.2536		
56	19.74	-0.07	6.1746	-7.7355	-0.1192	0.4128	-0.0610	0.0557	-1.2528		
57	20.09	-0.08	6.3368	-7.8936	-0.1934	0.4987	-0.0720	0.0494	-1.2457		
58	20.43	-0.05	6.4815	-8.1242	-0.0443	0.5519	-0.0850	0.0508	-1.2534		
59	20.76	-0.07	6.5398	-8.2399	-0.1437	0.4851	-0.0800	0.0546	-1.2600		
60	21.12	-0.06	6.6858	-8.4313	-0.0754	0.5275	-0.0770	0.0479	-1.2611		
61	21.43	-0.07	6.7975	-8.6446	-0.1168	0.4115	-0.0780	0.0466	-1.2717		
62	21.75	-0.07	6.9212	-8.7718	-0.1367	0.4783	-0.0920	0.0466	-1.2674		
63	22.03	-0.06	7.0132	-8.9586	-0.1162	0.5516	-0.0890	0.0430	-1.2774		
64	22.35	-0.08	7.1004	-9.1136	-0.0958	0.4281	-0.0630	0.0365	-1.2835		
65	22.66	-0.08	7.2023	-9.2563	-0.0856	0.3848	-0.0520	0.0295	-1.2852		
66	22.99	-0.08	7.2296	-9.0755	-0.0534	0.3467	-0.1050	0.0306	-1.2553		
67	23.28	-0.08	7.3497	-9.2428	-0.0553	0.4204	-0.1110	0.0239	-1.2576		
68	23.62	-0.07	7.4236	-9.2702	0.0274	0.3676	-0.1170	0.0114	-1.2487		
69	23.90	-0.07	7.5128	-9.3101	0.0482	0.2605	-0.0990	0.0045	-1.2392		
70	24.26	-0.08	7.6443	-9.4962	-0.0014	0.3479	-0.0970	-0.0076	-1.2423		
71	24.51	-0.08	7.7346	-9.5926	0.0173	0.3507	-0.0900	-0.0085	-1.2402		
72	24.86	-0.10	7.8414	-9.6961	-0.1028	0.2999	-0.1000	-0.0159	-1.2365		
73	25.13	-0.09	8.0136	-9.8611	-0.0589	0.2154	-0.1050	-0.0154	-1.2306		
74	25.43	-0.10	8.1200	-9.9472	-0.1234	0.3507	-0.1080	-0.0178	-1.2250		
75	25.77	-0.09	8.2472	-10.1043	-0.0753	0.3024	-0.1130	-0.0169	-1.2252		
76	26.01	-0.09	8.3899	-10.2241	-0.0624	0.3553	-0.1190	-0.0151	-1.2186		
77	26.35	-0.10	8.5325	-10.3337	-0.1163	0.2528	-0.1130	-0.0202	-1.2111		
78	26.63	-0.09	8.6573	-10.3514	-0.0656	0.3348	-0.1090	-0.0214	-1.1957		
79	26.93	-0.10	8.7627	-10.3210	-0.1230	0.3372	-0.1130	-0.0282	-1.1778		
80	27.25	-0.10	8.8753	-10.3897	-0.1558	0.3601	-0.1210	-0.0274	-1.1706		
81	27.56	-0.10	8.9673	-10.3765	-0.0389	0.3344	-0.1400	-0.0325	-1.1571		
82	27.87	-0.11	9.0895	-10.4196	-0.1362	0.2868	-0.1020	-0.0361	-1.1463		
83	28.15	-0.10	9.1803	-10.4317	-0.0799	0.3528	-0.1120	-0.0446	-1.1363		
84	28.47	-0.09	9.2744	-10.3975	-0.1457	0.4189	-0.1040	-0.0549	-1.1211		
85	28.77	-0.10	9.3506	-10.3082	-0.1058	0.2401	-0.1120	-0.0648	-1.1024		
86	29.08	-0.09	9.4555	-10.1590	0.0236	0.3139	-0.0990	-0.0656	-1.0744		
87	29.39	-0.12	9.5494	-10.2375	-0.1726	0.2336	-0.0930	-0.0809	-1.0721		
88	29.68	-0.11	9.6512	-10.2552	-0.1098	0.2067	-0.0980	-0.0895	-1.0626		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	57	0.85	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YC PF1	CNF2	CH2	CB2	XC PF2	YC PF2
1	-2.78	-0.02	-0.3839	0.0011	0.0796	-0.0030	-0.2074	-0.0471	0.0032	-0.0391	-0.0679	0.8300
2	-2.60	-0.01	-0.3802	0.0012	0.0792	-0.0033	-0.2082	-0.0767	0.0029	-0.0288	-0.0378	0.3749
3	-1.98	-0.03	-0.3839	0.0011	0.0796	-0.0030	-0.2074	-0.0226	0.0018	-0.0269	-0.0818	1.1916
4	-1.36	-0.03	-0.3893	0.0011	0.0802	-0.0030	-0.2061	-0.0106	0.0008	-0.0196	-0.0755	1.8521
5	-0.74	-0.02	-0.3730	0.0010	0.0784	-0.0028	-0.2101	-0.0016	0.0003	-0.0143	-0.1875	8.9582
6	-0.28	-0.01	-0.3819	0.0011	0.0794	-0.0030	-0.2079	0.0059	0.0	-0.0103	0.0	-1.7515
7	0.29	-0.01	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.0136	0.0	-0.0070	0.0	-0.5124
8	0.79	-0.02	-0.3728	0.0010	0.0783	-0.0027	-0.2101	0.0161	-0.0003	-0.0031	-0.0186	-0.1947
9	1.30	-0.01	-0.3728	0.0010	0.0783	-0.0027	-0.2101	0.0289	-0.0007	0.0008	-0.0259	0.0287
10	1.85	-0.02	-0.3782	0.0010	0.0789	-0.0026	-0.2087	0.0453	-0.0012	0.0041	-0.0276	0.0904
11	2.31	-0.02	-0.3783	0.0011	0.0790	-0.0029	-0.2088	0.0576	-0.0019	0.0104	-0.0338	0.1804
12	2.81	-0.02	-0.3819	0.0011	0.0794	-0.0030	-0.2079	0.0711	-0.0028	0.0191	-0.0394	0.2685
13	3.28	-0.02	-0.3783	0.0011	0.0790	-0.0029	-0.2088	0.0849	-0.0035	0.0265	-0.0412	0.3120
14	3.77	-0.01	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.1074	-0.0039	0.0330	-0.0363	0.3071
15	4.23	-0.02	-0.3783	0.0011	0.0790	-0.0029	-0.2088	0.1241	-0.0046	0.0427	-0.0371	0.3445
16	4.68	-0.04	-0.3819	0.0011	0.0794	-0.0030	-0.2079	0.1430	-0.0048	0.0499	-0.0339	0.3493
17	5.16	-0.04	-0.3801	0.0011	0.0792	-0.0030	-0.2083	0.1613	-0.0051	0.0597	-0.0319	0.3704
18	5.60	-0.03	-0.3892	0.0012	0.0802	-0.0032	-0.2060	0.1803	-0.0055	0.0666	-0.0305	0.3693
19	6.07	-0.03	-0.3801	0.0011	0.0792	-0.0029	-0.2083	0.1957	-0.0056	0.0742	-0.0289	0.3792
20	6.52	-0.03	-0.3801	0.0011	0.0792	-0.0030	-0.2083	0.2196	-0.0054	0.0818	-0.0248	0.3724
21	6.96	-0.03	-0.3965	0.0013	0.0810	-0.0034	-0.2044	0.2320	-0.0052	0.0871	-0.0224	0.3755
22	7.43	-0.03	-0.3892	0.0012	0.0802	-0.0032	-0.2060	0.2506	-0.0047	0.0954	-0.0188	0.3807
23	7.84	-0.03	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.2726	-0.0044	0.1038	-0.0163	0.3809
24	8.29	-0.05	-0.3782	0.0010	0.0789	-0.0026	-0.2087	0.2946	-0.0039	0.1117	-0.0134	0.3790
25	8.72	-0.05	-0.3800	0.0011	0.0791	-0.0029	-0.2082	0.3117	-0.0037	0.1190	-0.0120	0.3816
26	9.14	-0.04	-0.4019	0.0014	0.0816	-0.0035	-0.2031	0.3419	-0.0036	0.1294	-0.0105	0.3785
27	9.53	-0.03	-0.3727	0.0009	0.0784	-0.0025	-0.2102	0.3558	-0.0037	0.1361	-0.0105	0.3824
28	9.95	-0.06	-0.3709	0.0009	0.0782	-0.0026	-0.2107	0.3699	-0.0038	0.1423	-0.0104	0.3846
29	10.35	-0.06	-0.3673	0.0009	0.0778	-0.0024	-0.2117	0.3954	-0.0039	0.1506	-0.0099	0.3807
30	10.76	-0.06	-0.3910	0.0012	0.0804	-0.0032	-0.2055	0.4145	-0.0040	0.1574	-0.0096	0.3798
31	11.17	-0.06	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.4338	-0.0039	0.1631	-0.0091	0.3759
32	11.56	-0.07	-0.3782	0.0010	0.0789	-0.0026	-0.2087	0.4528	-0.0035	0.1695	-0.0077	0.3743
33	11.93	-0.05	-0.3655	0.0009	0.0776	-0.0025	-0.2122	0.4734	-0.0031	0.1771	-0.0067	0.3742
34	12.29	-0.03	-0.3728	0.0010	0.0783	-0.0027	-0.2101	0.4889	-0.0031	0.1845	-0.0064	0.3774
35	12.64	-0.04	-0.3655	0.0009	0.0776	-0.0025	-0.2122	0.5101	-0.0029	0.1891	-0.0058	0.3707
36	13.01	-0.03	-0.3600	0.0007	0.0769	-0.0021	-0.2136	0.5340	-0.0019	0.1968	-0.0036	0.3686
37	13.35	-0.04	-0.3618	0.0008	0.0771	-0.0022	-0.2131	0.5495	-0.0014	0.2039	-0.0026	0.3711
38	13.72	-0.05	-0.3600	0.0008	0.0769	-0.0022	-0.2136	0.5721	-0.0003	0.2094	-0.0006	0.3661
39	14.08	-0.04	-0.3231	0.0002	0.0727	-0.0006	-0.2250	0.5908	0.0001	0.2143	0.0003	0.3627
40	14.41	-0.05	-0.3157	0.0	0.0720	0.0	-0.2279	0.6065	0.0011	0.2199	0.0019	0.3626
41	14.78	-0.05	-0.3229	0.0002	0.0727	-0.0006	-0.2250	0.6273	0.0016	0.2244	0.0026	0.3578
42	15.16	-0.06	-0.2998	-0.0001	0.0702	0.0003	-0.2340	0.6444	0.0029	0.2293	0.0046	0.3559
43	15.49	-0.06	-0.3231	0.0002	0.0727	-0.0006	-0.2250	0.6771	0.0048	0.2397	0.0071	0.3540
44	15.78	-0.06	-0.2991	-0.0001	0.0700	0.0003	-0.2340	0.6890	0.0048	0.2438	0.0070	0.3538
45	16.16	-0.05	-0.3094	0.0	0.0711	0.0	-0.2296	0.7124	0.0055	0.2478	0.0077	0.3478
46	16.49	-0.07	-0.2986	-0.0001	0.0695	0.0005	-0.2339	0.7264	0.0064	0.2536	0.0089	0.3492

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		PACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		57 0.85 1.7		0.0	B2W2F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.85	-0.06	-0.3035	-0.0001	0.0704	0.0003	-0.2320	0.7427	0.0069	0.2592	0.0093	0.3490
48	17.12	-0.06	-0.2781	-0.0005	0.0675	0.0018	-0.2426	0.7656	0.0089	0.2623	0.0117	0.3426
49	17.45	-0.06	-0.2727	-0.0005	0.0665	0.0020	-0.2454	0.7793	0.0103	0.2671	0.0132	0.3427
50	17.79	-0.07	-0.2778	-0.0005	0.0675	0.0018	-0.2429	0.7962	0.0121	0.2724	0.0152	0.3421
51	18.14	-0.06	-0.2601	-0.0008	0.0655	0.0031	-0.2519	0.8172	0.0131	0.2739	0.0160	0.3352
52	18.47	-0.06	-0.2674	-0.0006	0.0663	0.0024	-0.2479	0.8345	0.0140	0.2797	0.0168	0.3351
53	18.83	-0.07	-0.2620	-0.0008	0.0657	0.0031	-0.2508	0.8494	0.0152	0.2837	0.0179	0.3340
54	19.14	-0.07	-0.2428	-0.0011	0.0637	0.0045	-0.2623	0.8613	0.0160	0.2869	0.0186	0.3331
55	19.44	-0.07	-0.2064	-0.0017	0.0596	0.0085	-0.2889	0.8826	0.0177	0.2905	0.0201	0.3291
56	19.74	-0.07	-0.2319	-0.0013	0.0625	0.0058	-0.2696	0.8945	0.0184	0.2934	0.0206	0.3280
57	20.09	-0.08	-0.1887	-0.0020	0.0577	0.0109	-0.3059	0.9124	0.0203	0.2965	0.0223	0.3250
58	20.43	-0.05	-0.1596	-0.0025	0.0544	0.0157	-0.3410	0.9142	0.0217	0.3035	0.0238	0.3320
59	20.76	-0.07	-0.1541	-0.0026	0.0538	0.0169	-0.3495	0.9430	0.0222	0.3051	0.0235	0.3236
60	21.12	-0.06	-0.1340	-0.0030	0.0515	0.0224	-0.3847	0.9643	0.0241	0.3091	0.0250	0.3206
61	21.43	-0.07	-0.1631	-0.0025	0.0548	0.0153	-0.3363	0.9870	0.0239	0.3136	0.0243	0.3197
62	21.75	-0.07	-0.1174	-0.0032	0.0496	0.0273	-0.4223	1.0029	0.0248	0.3174	0.0248	0.3165
63	22.03	-0.06	-0.0920	-0.0036	0.0467	0.0397	-0.5081	1.0271	0.0255	0.3244	0.0249	0.3158
64	22.35	-0.08	-0.1335	-0.0029	0.0514	0.0221	-0.3851	1.0416	0.0256	0.3274	0.0246	0.3143
65	22.66	-0.08	-0.1624	-0.0025	0.0546	0.0157	-0.3361	1.0611	0.0263	0.3319	0.0248	0.3128
66	22.99	-0.08	-0.2051	-0.0030	0.0714	0.0146	-0.3484	1.0723	0.0279	0.3348	0.0260	0.3122
67	23.28	-0.08	-0.1171	-0.0033	0.0496	0.0282	-0.4234	1.0840	0.0288	0.3357	0.0266	0.3097
68	23.62	-0.07	-0.1228	-0.0032	0.0503	0.0261	-0.4095	1.0906	0.0309	0.3373	0.0283	0.3093
69	23.90	-0.07	-0.1468	-0.0028	0.0531	0.0191	-0.3616	1.1047	0.0320	0.3400	0.0290	0.3078
70	24.26	-0.08	-0.1105	-0.0034	0.0490	0.0308	-0.4433	1.1208	0.0336	0.3429	0.0300	0.3059
71	24.51	-0.08	-0.1052	-0.0035	0.0484	0.0337	-0.4605	1.1314	0.0346	0.3463	0.0306	0.3061
72	24.86	-0.10	-0.1162	-0.0034	0.0498	0.0297	-0.4284	1.1403	0.0351	0.3484	0.0308	0.3055
73	25.13	-0.09	-0.1109	-0.0035	0.0492	0.0320	-0.4441	1.1722	0.0376	0.3539	0.0321	0.3019
74	25.43	-0.10	-0.1166	-0.0034	0.0495	0.0296	-0.4284	1.1825	0.0377	0.3569	0.0319	0.3018
75	25.77	-0.09	-0.0873	-0.0040	0.0467	0.0458	-0.5351	1.2000	0.0387	0.3617	0.0323	0.3014
76	26.01	-0.09	-0.0799	-0.0042	0.0459	0.0526	-0.5742	1.2166	0.0396	0.3648	0.0326	0.2998
77	26.35	-0.10	-0.0872	-0.0039	0.0466	0.0453	-0.5349	1.2287	0.0397	0.3672	0.0323	0.2989
78	26.63	-0.09	-0.1106	-0.0035	0.0491	0.0321	-0.4444	1.2315	0.0400	0.3688	0.0325	0.2994
79	26.93	-0.10	-0.1051	-0.0036	0.0485	0.0347	-0.4613	1.2433	0.0407	0.3697	0.0328	0.2973
80	27.25	-0.10	-0.0815	-0.0039	0.0458	0.0485	-0.5625	1.2450	0.0425	0.3686	0.0341	0.2960
81	27.56	-0.10	-0.0321	-0.0048	0.0403	0.1495	-1.2556	1.2372	0.0466	0.3626	0.0377	0.2931
82	27.87	-0.11	-0.1414	-0.0030	0.0525	0.0212	-0.3712	1.2528	0.0441	0.3683	0.0352	0.2939
83	28.15	-0.10	-0.0905	-0.0038	0.0467	0.0420	-0.5165	1.2439	0.0478	0.3624	0.0384	0.2917
84	28.47	-0.09	-0.1542	-0.0028	0.0539	0.0182	-0.3497	1.2496	0.0475	0.3650	0.0380	0.2921
85	28.77	-0.10	-0.1052	-0.0035	0.0484	0.0337	-0.4605	1.2441	0.0502	0.3591	0.0404	0.2886
86	29.08	-0.09	-0.2151	-0.0019	0.0604	0.0091	-0.2832	1.2474	0.0489	0.3597	0.0392	0.2883
87	29.39	-0.12	-0.2284	-0.0019	0.0627	0.0083	-0.2740	1.2565	0.0508	0.3626	0.0404	0.2886
88	29.68	-0.11	-0.1283	-0.0032	0.0514	0.0253	-0.4010	1.2490	0.0526	0.3543	0.0421	0.2837

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 57 0.85 1.7 0.0 B2M2F12 16.750 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.78	-0.02	0.0704	0.0014	-0.0121	0.0206	-0.1725	-0.0439	0.0040	-0.0294	-0.0922	0.6703
2	-2.60	-0.01	0.0898	0.0007	-0.0176	0.0078	-0.1957	-0.0508	0.0039	-0.0258	-0.0777	0.5084
3	-1.98	-0.03	0.0614	0.0014	-0.0111	0.0236	-0.1814	-0.0171	0.0024	-0.0186	-0.1432	1.0876
4	-1.36	-0.03	0.0703	0.0012	-0.0122	0.0171	-0.1732	-0.0004	0.0016	-0.0132	-3.9993	33.0832
5	-0.79	-0.02	0.0698	0.0012	-0.0112	0.0172	-0.1611	0.0146	0.0007	-0.0072	0.0479	-0.4956
6	-0.28	-0.01	0.0701	0.0008	-0.0120	0.0114	-0.1718	0.0213	0.0004	-0.0046	0.0188	-0.2161
7	0.29	-0.01	0.0651	0.0007	-0.0107	0.0108	-0.1645	0.0315	-0.0002	-0.0005	-0.0063	-0.0160
8	0.79	-0.02	0.0633	0.0007	-0.0072	0.0111	-0.1139	0.0451	-0.0008	0.0034	-0.0188	0.0760
9	1.30	-0.01	0.0681	0.0002	-0.0086	0.0029	-0.1264	0.0587	-0.0014	0.0069	-0.0247	0.1169
10	1.85	-0.02	0.0631	0.0002	-0.0072	0.0032	-0.1137	0.0794	-0.0027	0.0134	-0.0340	0.1682
11	2.31	-0.02	0.0676	0.0000	-0.0077	0.0007	-0.1135	0.0947	-0.0035	0.0191	-0.0370	0.2012
12	2.81	-0.02	0.0854	-0.0003	-0.0096	-0.0035	-0.1129	0.1146	-0.0043	0.0259	-0.0375	0.2259
13	3.28	-0.02	0.0804	-0.0004	-0.0083	-0.0050	-0.1034	0.1343	-0.0051	0.0340	-0.0380	0.2535
14	3.77	-0.01	0.0804	-0.0004	-0.0083	-0.0050	-0.1034	0.1574	-0.0059	0.0413	-0.0375	0.2627
15	4.23	-0.02	0.0746	-0.0004	-0.0051	-0.0054	-0.0689	0.1810	-0.0062	0.0513	-0.0345	0.2835
16	4.68	-0.04	0.0881	-0.0004	-0.0067	-0.0045	-0.0765	0.2034	-0.0065	0.0578	-0.0322	0.2841
17	5.16	-0.04	0.0746	-0.0003	-0.0051	-0.0040	-0.0689	0.2253	-0.0067	0.0665	-0.0297	0.2950
18	5.60	-0.03	0.0727	-0.0004	-0.0016	-0.0055	-0.0217	0.2444	-0.0069	0.0722	-0.0284	0.2956
19	6.07	-0.03	0.0863	-0.0003	-0.0031	-0.0041	-0.0364	0.2720	-0.0068	0.0826	-0.0250	0.3038
20	6.52	-0.03	0.0817	-0.0006	-0.0027	-0.0073	-0.0328	0.2885	-0.0066	0.0900	-0.0230	0.3121
21	6.96	-0.03	0.0851	-0.0010	-0.0013	-0.0117	-0.0158	0.3016	-0.0072	0.0952	-0.0240	0.3156
22	7.43	-0.03	0.0847	-0.0010	-0.0005	-0.0118	-0.0056	0.3251	-0.0066	0.1054	-0.0203	0.3243
23	7.84	-0.03	0.0898	-0.0010	-0.0037	-0.0143	-0.0524	0.3511	-0.0064	0.1143	-0.0182	0.3255
24	8.29	-0.05	0.0848	-0.0006	-0.0004	-0.0071	-0.0052	0.3733	-0.0059	0.1232	-0.0158	0.3300
25	8.72	-0.05	0.0828	-0.0009	0.0031	-0.0115	0.0373	0.3950	-0.0058	0.1291	-0.0147	0.3269
26	9.14	-0.04	0.0832	-0.0011	0.0022	-0.0132	0.0267	0.4118	-0.0056	0.1341	-0.0137	0.3257
27	9.53	-0.03	0.0829	-0.0007	0.0030	-0.0084	0.0365	0.4419	-0.0055	0.1477	-0.0126	0.3341
28	9.95	-0.06	0.0861	-0.0007	0.0052	-0.0081	0.0603	0.4626	-0.0050	0.1556	-0.0109	0.3362
29	10.35	-0.06	0.0907	-0.0003	0.0046	-0.0033	0.0510	0.4895	-0.0052	0.1617	-0.0107	0.3304
30	10.76	-0.06	0.0906	-0.0007	0.0047	-0.0077	0.0518	0.4984	-0.0052	0.1664	-0.0105	0.3338
31	11.17	-0.06	0.0941	-0.0008	0.0060	-0.0085	0.0633	0.5242	-0.0047	0.1724	-0.0091	0.3288
32	11.56	-0.07	0.0951	-0.0007	0.0042	-0.0074	0.0440	0.5404	-0.0047	0.1816	-0.0087	0.3360
33	11.93	-0.05	0.0969	-0.0005	0.0089	-0.0057	0.0917	0.5750	-0.0040	0.1910	-0.0070	0.3322
34	12.29	-0.03	0.1105	-0.0002	0.0074	-0.0023	0.0672	0.5936	-0.0040	0.1957	-0.0067	0.3297
35	12.64	-0.04	0.1033	-0.0003	0.0045	-0.0029	0.0476	0.6036	-0.0037	0.2013	-0.0062	0.3335
36	13.01	-0.03	0.0986	0.0003	0.0063	0.0035	0.0634	0.6346	-0.0028	0.2099	-0.0044	0.3307
37	13.35	-0.04	0.0835	-0.0003	0.0104	-0.0036	0.1246	0.6456	-0.0023	0.2166	-0.0036	0.3355
38	13.72	-0.05	0.0954	0.0002	0.0041	0.0021	0.0429	0.6625	-0.0012	0.2210	-0.0019	0.3337
39	14.08	-0.04	0.1059	-0.0001	0.0079	-0.0014	0.0745	0.6987	0.0011	0.2368	0.0016	0.3389
40	14.41	-0.05	0.0924	-0.0003	0.0094	-0.0032	0.1016	0.7130	0.0018	0.2410	0.0025	0.3380
41	14.78	-0.05	0.1013	-0.0002	0.0084	-0.0025	0.0825	0.7316	0.0023	0.2472	0.0031	0.3379
42	15.16	-0.06	0.1087	-0.0001	0.0109	-0.0009	0.1005	0.7467	0.0031	0.2538	0.0042	0.3399
43	15.49	-0.06	0.1007	0.0003	0.0101	0.0035	0.0998	0.7709	0.0037	0.2601	0.0048	0.3374
44	15.78	-0.06	0.1042	0.0003	0.0113	0.0034	0.1086	0.7930	0.0036	0.2667	0.0046	0.3364
45	16.16	-0.05	0.1054	0.0003	0.0086	0.0033	0.0818	0.8080	0.0036	0.2728	0.0045	0.3377
46	16.49	-0.07	0.1188	0.0003	0.0072	0.0029	0.0605	0.8342	0.0054	0.2803	0.0065	0.3360

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CONF	L	UEL1	UEL2	GEL3	UEL4	TRANSITION		
6	57	0.85	1.7	U.0	B2W2F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.85	-0.06	0.1052	0.0005	0.0087	0.0048	0.0823	0.8523	0.0057	0.2850	0.0067	0.3351
48	17.12	-0.06	0.1039	0.0005	0.0112	0.0048	0.1080	0.8691	0.0073	0.2938	0.0084	0.3380
49	17.45	-0.06	0.1052	0.0005	0.0087	0.0048	0.0823	0.8824	0.0092	0.2982	0.0104	0.3380
50	17.79	-0.07	0.1084	0.0008	0.0107	0.0078	0.0989	0.8940	0.0111	0.3023	0.0125	0.3381
51	18.14	-0.06	0.1166	0.0019	0.0115	0.0077	0.0982	0.9095	0.0116	0.3068	0.0127	0.3373
52	18.47	-0.06	0.1159	0.0014	0.0131	0.0121	0.1132	0.9235	0.0123	0.3112	0.0133	0.3370
53	18.83	-0.07	0.1268	0.0016	0.0087	0.0130	0.0682	0.9360	0.0142	0.3171	0.0152	0.3388
54	19.14	-0.07	0.1173	0.0017	0.0114	0.0149	0.0971	0.9519	0.0156	0.3211	0.0164	0.3373
55	19.44	-0.07	0.1089	0.0010	0.0108	0.0092	0.0991	0.9678	0.0181	0.3264	0.0187	0.3372
56	19.74	-0.07	0.1262	0.0014	0.0104	0.0111	0.0828	0.9789	0.0192	0.3298	0.0196	0.3369
57	20.09	-0.08	0.1174	0.0014	0.0115	0.0119	0.0981	0.9916	0.0209	0.3350	0.0211	0.3379
58	20.43	-0.05	0.1246	0.0014	0.0140	0.0112	0.1125	1.0223	0.0211	0.3405	0.0206	0.3330
59	20.76	-0.07	0.1201	0.0014	0.0145	0.0117	0.1209	1.0286	0.0207	0.3436	0.0202	0.3341
60	21.12	-0.06	0.1430	0.0023	0.0118	0.0161	0.0829	1.0559	0.0218	0.3509	0.0207	0.3324
61	21.43	-0.07	0.1365	0.0023	0.0123	0.0166	0.0892	1.0709	0.0220	0.3548	0.0206	0.3313
62	21.75	-0.07	0.1221	0.0027	0.0091	0.0221	0.1563	1.0840	0.0223	0.3608	0.0206	0.3288
63	22.05	-0.06	0.1428	0.0026	0.0118	0.0180	0.0825	1.1060	0.0233	0.3677	0.0210	0.3323
64	22.35	-0.08	0.1246	0.0026	0.0138	0.0213	0.1109	1.1144	0.0240	0.3688	0.0215	0.3310
65	22.66	-0.08	0.1320	0.0034	0.0163	0.0258	0.1234	1.1256	0.0254	0.3735	0.0226	0.3318
66	22.99	-0.08	0.1274	0.0030	0.0168	0.0239	0.1323	1.0889	0.0310	0.3634	0.0285	0.3338
67	23.26	-0.08	0.1401	0.0035	0.0171	0.0253	0.1219	1.0810	0.0332	0.3616	0.0307	0.3345
68	23.62	-0.07	0.1406	0.0042	0.0170	0.0298	0.1213	1.0775	0.0342	0.3584	0.0318	0.3327
69	23.90	-0.07	0.1465	0.0047	0.0230	0.0324	0.1571	1.0908	0.0344	0.3609	0.0315	0.3308
70	24.26	-0.08	0.1365	0.0039	0.0176	0.0289	0.1288	1.1050	0.0348	0.3635	0.0315	0.3288
71	24.51	-0.08	0.1433	0.0036	0.0175	0.0248	0.1206	1.1177	0.0346	0.3612	0.0310	0.3286
72	24.86	-0.10	0.1438	0.0042	0.0210	0.0295	0.1461	1.1267	0.0351	0.3706	0.0311	0.3290
73	25.13	-0.09	0.1494	0.0052	0.0196	0.0351	0.1311	1.1450	0.0357	0.3740	0.0312	0.3267
74	25.43	-0.10	0.1477	0.0047	0.0232	0.0322	0.1572	1.1589	0.0359	0.3792	0.0310	0.3272
75	25.77	-0.09	0.1495	0.0042	0.0197	0.0284	0.1319	1.1737	0.0359	0.3837	0.0306	0.3269
76	26.01	-0.09	0.1449	0.0042	0.0202	0.0293	0.1393	1.1821	0.0372	0.3884	0.0315	0.3286
77	26.35	-0.10	0.1633	0.0052	0.0181	0.0321	0.1109	1.1970	0.0375	0.3935	0.0314	0.3287
78	26.63	-0.09	0.1487	0.0043	0.0196	0.0292	0.1321	1.2051	0.0379	0.3938	0.0315	0.3267
79	26.95	-0.10	0.1619	0.0044	0.0189	0.0272	0.1170	1.2111	0.0390	0.3956	0.0322	0.3266
80	27.25	-0.10	0.1623	0.0043	0.0181	0.0268	0.1114	1.2227	0.0394	0.3988	0.0322	0.3262
81	27.56	-0.10	0.1619	0.0048	0.0188	0.0300	0.1164	1.2305	0.0393	0.4001	0.0320	0.3252
82	27.87	-0.11	0.1589	0.0044	0.0158	0.0280	0.0997	1.2381	0.0408	0.4030	0.0329	0.3255
83	28.15	-0.10	0.1625	0.0055	0.0179	0.0338	0.1104	1.2434	0.0410	0.4029	0.0330	0.3240
84	28.47	-0.09	0.1487	0.0048	0.0194	0.0320	0.1308	1.2429	0.0420	0.4013	0.0338	0.3229
85	28.77	-0.10	0.1611	0.0060	0.0215	0.0372	0.1333	1.2507	0.0417	0.4016	0.0334	0.3211
86	29.08	-0.09	0.1494	0.0052	0.0196	0.0351	0.1311	1.2276	0.0409	0.3874	0.0333	0.3160
87	29.39	-0.12	0.1711	0.0053	0.0206	0.0310	0.1205	1.2355	0.0409	0.3900	0.0331	0.3157
88	29.68	-0.11	0.1718	0.0061	0.0206	0.0355	0.1202	1.2435	0.0405	0.3945	0.0326	0.3173

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MARTIN MISSILE TAILS EFFECTS DATA

TEST POINT	MACH	NOISE	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	5.85	1.7	0.0	0.2112	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLM	CLL	CAF	XCP	
1	-2.41	0.03	-0.6546	0.0482	0.0885	-0.0179	0.0160	0.2038	-0.0731	
2	-2.47	0.04	-0.5466	0.0254	0.1217	0.0866	0.0110	0.2063	-0.0425	
3	-1.87	0.02	-0.4066	-0.0056	0.1430	0.0068	0.0170	0.2092	0.0138	
4	-1.31	0.03	-0.3187	-0.0118	0.1351	0.0639	0.0190	0.2156	0.0371	
5	-0.72	0.02	-0.1606	-0.0082	0.1400	0.0130	0.0190	0.2190	0.0508	
6	-0.17	0.02	-0.0143	0.0010	0.1408	-0.0151	0.0170	0.2177	-0.0713	
7	0.38	0.01	0.0796	0.0376	0.0751	-0.0121	0.0120	0.2195	0.4719	
8	0.91	0.02	0.2070	0.0592	0.0877	-0.0188	0.0150	0.2192	0.2860	
9	1.44	0.02	0.4257	0.0619	0.1170	-0.0838	0.0150	0.2227	0.1881	
10	1.96	0.02	0.6469	0.0380	0.1044	0.0043	0.0210	0.2228	0.0417	
11	2.47	0.02	0.8687	0.0037	0.1006	-0.0128	0.0250	0.2241	0.0063	
12	2.96	0.02	0.7445	-0.0254	0.1175	-0.0125	0.0190	0.2194	-0.0342	
13	3.44	0.01	0.8801	-0.0673	0.0146	-0.0364	0.0260	0.2214	-0.0764	
14	3.90	0.02	1.0002	-0.1364	0.1347	-0.0426	0.0230	0.2194	-0.1364	
15	4.38	0.02	1.1375	-0.2426	0.1061	0.0155	0.0230	0.2218	-0.2133	
16	4.83	0.02	1.2844	-0.3334	0.1310	-0.0144	0.0190	0.2237	-0.2596	
17	5.29	0.02	1.4539	-0.4547	0.1398	-0.0007	0.0270	0.2212	-0.3127	
18	5.76	0.01	1.6043	-0.6152	0.0657	-0.0110	0.0270	0.2139	-0.3823	
19	6.23	0.03	1.7971	-0.7271	0.1984	-0.0668	0.0270	0.2158	-0.4048	
20	6.71	0.02	1.9761	-0.8559	0.0453	-0.0434	0.0340	0.2105	-0.4331	
21	7.17	0.01	2.1038	-0.9430	0.0877	0.0142	0.0220	0.2095	-0.4470	
22	7.64	0.0	2.2946	-1.1177	0.0424	-0.0484	0.0270	0.2016	-0.4871	
23	8.11	0.01	2.4943	-1.2303	0.1007	-0.0450	0.0270	0.2012	-0.5128	
24	8.57	0.01	2.5407	-1.3662	0.0636	0.0130	0.0340	0.1980	-0.5377	
25	8.94	0.02	2.7162	-1.5080	0.1262	-0.0187	0.0290	0.1979	-0.5552	
26	9.36	0.02	2.8453	-1.6428	0.1516	-0.0202	0.0270	0.1896	-0.5447	
27	9.76	0.0	3.0372	-1.8274	0.0191	-0.0007	0.0270	0.1857	-0.6017	
28	10.20	0.02	3.2009	-2.0036	0.2043	-0.0238	0.0170	0.1912	-0.6259	
29	10.61	0.0	3.3678	-2.1732	0.0489	-0.0874	0.0210	0.1827	-0.6304	
30	11.05	0.01	3.5624	-2.3238	0.1114	-0.0210	0.0260	0.1879	-0.6423	
31	11.46	0.02	3.7422	-2.5684	0.1444	0.0113	0.0260	0.1908	-0.6463	
32	11.84	0.02	3.9462	-2.7320	0.1405	0.0323	0.0330	0.1942	-0.6923	
33	12.21	0.01	4.0412	-2.8360	0.0702	0.0067	0.0290	0.1911	-0.7018	
34	12.58	0.01	4.2240	-3.0219	0.0450	-0.0020	0.0360	0.1933	-0.7153	
35	12.97	0.02	4.4590	-3.1350	0.1236	-0.0040	0.0340	0.1890	-0.7192	
36	13.41	0.01	4.4978	-3.2933	0.0449	-0.0244	0.0430	0.1851	-0.7322	
37	13.67	0.02	4.6217	-3.3228	0.1681	0.0067	0.0350	0.1814	-0.7406	
38	14.03	0.01	4.8162	-3.5430	0.0442	-0.0044	0.0420	0.1701	-0.7460	
39	14.42	0.01	4.9142	-3.7712	0.0751	-0.0041	0.0370	0.1616	-0.7466	
40	14.78	0.0	5.0713	-3.9061	0.0268	0.0045	0.0310	0.1538	-0.7699	
41	15.09	0.03	5.0431	-4.0808	0.1694	0.1021	-0.0260	0.1538	-0.8012	
42	15.47	0.02	5.2739	-4.2139	0.0768	0.1065	-0.0260	0.1394	-0.7990	
43	15.82	0.0	5.4198	-4.4441	-0.0163	0.0818	-0.0260	0.1287	-0.8237	
44	16.16	0.0	5.5137	-4.6745	0.0115	0.0019	0.0240	0.1239	-0.8478	
45	16.49	0.01	5.6609	-4.8476	0.0731	0.1026	0.0310	0.1209	-0.8563	
46	16.85	0.02	5.8434	-5.0542	0.0983	0.1014	0.0150	0.1134	-0.8449	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH #R10-6									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
6 5R 0.65 1.7 0.0 02W1F12 15.400 0 0 0 0 FIXED									
47	17.18	0.02	5.9451	-5.2386	0.0987	0.1008	0.0110	0.1079	-0.8753
48	17.52	0.0	6.2121	-5.4473	0.0172	0.1049	0.0060	0.1029	-0.8769
49	17.83	0.01	6.2977	-5.5982	0.0744	0.1433	0.0110	0.0961	-0.8889
50	18.17	0.01	6.4555	-5.7751	0.0499	0.0941	0.0100	0.0913	-0.8946
51	18.50	0.01	6.5871	-5.8854	0.0960	0.0246	0.0140	0.0876	-0.8935
52	18.85	0.0	6.7072	-6.1325	0.0223	0.1008	0.0130	0.0847	-0.9062
53	19.18	0.0	6.8700	-6.2334	0.0787	0.0718	0.0240	0.0812	-0.9073
54	19.53	0.0	7.0222	-6.3555	0.0555	0.0213	0.0270	0.0724	-0.9065
55	19.84	0.0	7.1275	-6.5023	0.0185	0.1281	0.0240	0.0758	-0.9124
56	20.18	-0.01	7.2852	-6.6448	0.0438	0.1417	0.0130	0.0727	-0.9121
57	20.52	-0.01	7.4277	-6.8003	-0.0263	0.2078	0.0170	0.0687	-0.9155
58	20.86	-0.02	7.5250	-6.9415	-0.0383	0.1446	-0.0030	0.0642	-0.9225
59	21.20	-0.03	7.6631	-7.0838	-0.1000	0.1690	-0.0120	0.0605	-0.9244
60	21.52	-0.02	7.7666	-7.2617	-0.1123	0.2132	-0.0430	0.0564	-0.9350
61	21.86	-0.01	7.8999	-7.4273	-0.0703	0.3174	-0.0840	0.0565	-0.9402
62	22.17	-0.02	8.0278	-7.6553	-0.0168	0.1945	-0.0800	0.0622	-0.9536
63	22.49	-0.01	8.1512	-7.7592	-0.0163	0.3358	-0.0900	0.0629	-0.9519
64	22.78	-0.02	8.2300	-7.9445	-0.0128	0.2139	-0.0690	0.0586	-0.9653
65	23.10	-0.01	8.3497	-8.1301	-0.0044	0.2411	-0.0800	0.0614	-0.9737
66	23.40	-0.01	8.4371	-8.3354	-0.0052	0.2392	-0.0390	0.0595	-0.9879
67	23.72	-0.04	8.5518	-8.5114	-0.1000	0.2340	-0.0250	0.0581	-0.9953
68	24.02	-0.02	8.6721	-8.5672	-0.0708	0.2111	-0.0140	0.0521	-0.9871
69	24.33	-0.02	8.8044	-8.7679	0.0154	0.2988	-0.0400	0.0520	-0.9453
70	24.69	-0.04	8.9754	-8.8741	-0.0659	0.2402	-0.0320	0.0451	-0.9887
71	25.01	-0.03	9.0400	-8.8685	-0.0325	0.3285	-0.0520	0.0344	-0.9432
72	25.30	-0.03	9.1591	-9.0502	-0.0614	0.3359	-0.0390	0.0244	-0.9481
73	25.60	-0.03	9.2836	-9.1405	-0.0444	0.3041	-0.0570	0.0237	-0.9446
74	25.90	-0.04	9.4042	-9.2403	-0.1222	0.3740	-0.0680	0.0186	-0.9879
75	26.20	-0.04	9.5507	-9.4404	-0.1139	0.3714	-0.0520	0.0152	-0.9843
76	26.51	-0.04	9.6744	-9.4313	-0.0967	0.3803	-0.0680	0.0041	-0.9745
77	26.81	-0.04	9.7270	-9.4534	-0.0225	0.2366	-0.0700	0.0016	-0.9719
78	27.09	-0.04	9.8924	-9.5474	-0.0427	0.2747	-0.0680	0.0032	-0.9447
79	27.42	-0.04	10.0688	-9.6374	-0.0174	0.3056	-0.0590	-0.0061	-0.9572
80	27.73	-0.05	10.1772	-9.6186	-0.0908	0.3231	-0.0690	-0.0084	-0.9451
81	28.05	-0.04	10.3074	-9.4876	0.0175	0.1365	-0.0780	-0.0052	-0.9204
82	28.34	-0.04	10.4334	-9.5445	0.0059	0.1541	-0.0920	-0.0155	-0.9140
83	28.66	-0.04	10.5462	-9.5504	0.0478	0.0861	-0.1100	-0.0217	-0.9064
84	28.95	-0.04	10.6404	-9.5623	0.0027	0.2092	-0.1030	-0.0266	-0.8945
85	29.27	-0.04	10.8246	-9.5941	0.0483	0.0654	-0.1000	-0.0314	-0.8868
86	29.59	-0.04	10.9691	-9.5754	0.0487	0.0478	-0.1060	-0.0325	-0.8729
87	29.93	-0.04	11.1480	-9.6550	0.0614	-0.0040	-0.1010	-0.0465	-0.8661
88	30.23	-0.04	11.2473	-9.6561	0.0489	-0.0115	-0.0620	-0.0459	-0.8584

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI		CONF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION	
6		5R		0.85 1.7		0.0		H2W1F12		15.400		0		0		0		0		FIXED	
POINT	ALPHA	HFA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2									
1	-7.41	0.03	0.0037	-0.0007	0.0004	-0.1842	0.2251	-0.0235	0.0013	-0.0248	-0.0553	1.2694									
2	-7.47	0.04	0.0048	-0.0006	0.0002	-0.0739	0.0264	-0.0230	0.0009	-0.0747	-0.0391	1.0504									
3	-1.87	0.02	0.0047	-0.0006	0.0014	-0.0690	0.1608	-0.0125	0.0002	-0.0183	-0.0200	1.4612									
4	-1.31	0.03	0.0047	-0.0005	0.0020	-0.0637	0.2228	0.0019	0.0001	-0.0148	0.0526	-7.7720									
5	-0.17	0.02	0.0155	-0.0004	0.0015	-0.0290	0.0945	0.0113	0.0	-0.0116	0.0	-1.0296									
6	-0.17	0.02	0.0106	-0.0003	0.0028	-0.0283	0.2672	0.0156	0.0002	-0.0087	0.0160	-0.5578									
7	0.38	0.01	0.0142	-0.0002	0.0015	-0.0176	0.1079	0.0185	0.0006	-0.0068	0.0324	-0.3695									
8	0.41	0.02	0.0143	-0.0002	0.0015	-0.0140	0.1024	0.0214	0.0004	-0.0050	0.0374	-0.2322									
9	1.44	0.02	0.0110	-0.0001	0.0028	-0.0091	0.2514	0.0312	0.0004	-0.0031	0.0272	-0.0995									
10	1.96	0.02	0.0144	0.0	0.0027	0.0	0.1874	0.0386	0.0004	0.0018	0.0207	0.0456									
11	2.47	0.02	0.0146	0.0	0.0015	0.0	0.1003	0.0495	0.0005	0.0056	0.0101	0.1130									
12	2.96	0.02	0.0111	0.0	0.0027	0.0	0.2431	0.0586	0.0000	0.0106	0.0004	0.1813									
13	3.44	0.01	0.0145	0.0	0.0026	0.0	0.1815	0.0697	-0.0002	0.0150	-0.0036	0.2156									
14	3.90	0.02	0.0173	0.0	0.0029	0.0	0.1519	0.0816	-0.0004	0.0227	-0.0098	0.2781									
15	4.38	0.02	0.0109	-0.0001	0.0028	-0.0092	0.2598	0.0955	-0.0015	0.0294	-0.0162	0.3081									
16	4.83	0.02	0.0242	0.0	0.0032	0.0	0.1307	0.1160	-0.0018	0.0360	-0.0159	0.3109									
17	5.29	0.02	0.0178	0.0	0.0027	0.0	0.1253	0.1319	-0.0027	0.0424	-0.0171	0.3218									
18	5.78	0.01	0.0158	-0.0001	0.0031	-0.0063	0.1940	0.1455	-0.0026	0.0499	-0.0182	0.3428									
19	6.23	0.03	0.0151	-0.0001	0.0034	-0.0071	0.2694	0.1714	-0.0032	0.0572	-0.0187	0.3338									
20	6.71	0.02	0.0138	-0.0003	0.0036	-0.0217	0.2608	0.1871	-0.0046	0.0632	-0.0192	0.3380									
21	7.17	0.01	0.0146	-0.0001	0.0048	-0.0080	0.2534	0.2026	-0.0037	0.0719	-0.0183	0.3549									
22	7.64	0.0	0.0170	-0.0004	0.0036	-0.0265	0.2097	0.2215	-0.0039	0.0794	-0.0178	0.3585									
23	8.07	0.01	0.0105	-0.0004	0.0029	-0.0428	0.2761	0.2338	-0.0040	0.0865	-0.0173	0.3700									
24	8.52	0.01	0.0242	-0.0001	0.0033	-0.0041	0.1349	0.2560	-0.0032	0.0936	-0.0127	0.3656									
25	8.94	0.02	0.0237	-0.0005	0.0046	-0.0215	0.1959	0.2763	-0.0035	0.1028	-0.0128	0.3719									
26	9.36	0.02	0.0139	-0.0004	0.0027	-0.0288	0.1985	0.2938	-0.0030	0.1097	-0.0102	0.3717									
27	9.76	0.0	0.0122	-0.0004	0.0027	-0.0328	0.2185	0.3208	-0.0026	0.1183	-0.0083	0.3687									
28	10.20	0.02	0.0137	-0.0004	0.0037	-0.0297	0.2675	0.3416	-0.0028	0.1250	-0.0083	0.3660									
29	10.61	0.0	0.0174	-0.0002	0.0035	-0.0115	0.2010	0.3621	-0.0025	0.1328	-0.0069	0.3666									
30	11.05	0.01	0.0122	-0.0003	0.0041	-0.0246	0.3332	0.3824	-0.0024	0.1417	-0.0064	0.3704									
31	11.46	0.02	0.0042	-0.0003	0.0019	-0.0325	0.2026	0.4073	-0.0025	0.1507	-0.0061	0.3700									
32	11.84	0.02	0.0040	-0.0001	0.0022	-0.0250	0.3685	0.4248	-0.0035	0.1588	-0.0084	0.3737									
33	12.21	0.01	0.0145	-0.0000	0.0014	-0.0034	0.0487	0.4472	-0.0035	0.1614	-0.0081	0.3691									
34	12.58	0.01	0.0145	0.0001	0.0026	0.0103	0.1757	0.4538	-0.0044	0.1690	-0.0098	0.3724									
35	12.97	0.02	0.0152	0.0005	0.0024	0.0362	0.1546	0.4879	-0.0045	0.1725	-0.0096	0.3687									
36	13.31	0.01	0.0031	0.0	0.0004	0.0	0.2887	0.4755	-0.0046	0.1781	-0.0097	0.3744									
37	13.67	0.02	0.0100	0.0004	0.0019	0.0400	0.1932	0.4912	-0.0042	0.1831	-0.0086	0.3727									
38	14.03	0.01	0.0048	0.0002	0.0025	0.0417	0.5207	0.5147	-0.0041	0.1876	-0.0080	0.3645									
39	14.42	0.01	-0.0001	-0.0001	-0.0000	0.4998	0.3332	0.5337	-0.0035	0.1926	-0.0066	0.3609									
40	14.78	0.0	0.0049	0.0001	0.0008	0.0204	0.1599	0.5444	-0.0032	0.1978	-0.0059	0.3631									
41	15.09	0.03	-0.0007	-0.0011	-0.0026	0.1185	0.2714	0.5574	-0.0026	0.2019	-0.0047	0.3623									
42	15.47	0.02	-0.0009	-0.0012	-0.0025	0.1262	0.2625	0.5784	-0.0023	0.2058	-0.0041	0.3559									
43	15.82	0.0	-0.0237	-0.0016	-0.0057	0.0711	0.2470	0.5908	-0.0009	0.2114	-0.0016	0.3578									
44	16.16	0.0	-0.0082	-0.0002	-0.0029	0.0305	0.3576	0.6275	0.0012	0.2241	0.0019	0.3571									
45	16.49	0.01	-0.0087	-0.0005	-0.0040	0.0640	0.4547	0.6481	0.0024	0.2302	0.0037	0.3553									
46	16.85	0.02	-0.0155	-0.0007	-0.0038	0.0452	0.2429	0.6677	0.0030	0.2352	0.0046	0.3522									

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AXIUM	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.7	0.45	0.0	0.2	15.400	0	0	0	0	FIXED		
POINT	ALPHA	HETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	17.18	0.02	-0.0192	-0.0012	-0.0072	0.0651	0.3749	0.6876	0.0045	0.2388	0.0066	0.3675
48	17.52	0.0	-0.0242	-0.0017	-0.0053	0.0674	0.2102	0.7094	0.0053	0.2464	0.0075	0.3473
49	17.83	0.01	-0.0269	-0.0020	-0.0088	0.0743	0.3258	0.7731	0.0071	0.2503	0.0098	0.3462
50	18.17	0.01	-0.0257	-0.0021	-0.0075	0.0816	0.2904	0.7477	0.0080	0.2556	0.0108	0.3437
51	18.50	0.01	-0.0290	-0.0022	-0.0055	0.0846	0.2101	0.7564	0.0087	0.2594	0.0115	0.3430
52	18.85	0.0	-0.0210	-0.0023	-0.0062	0.1095	0.3285	0.7870	0.0099	0.2669	0.0126	0.3392
53	19.18	0.0	-0.0260	-0.0022	-0.0055	0.0865	0.2101	0.7490	0.0111	0.2680	0.0139	0.3355
54	19.53	0.0	-0.0208	-0.0021	-0.0069	0.1033	0.3332	0.8084	0.0118	0.2714	0.0146	0.3357
55	19.84	0.0	-0.0310	-0.0023	-0.0077	0.0758	0.2443	0.8276	0.0126	0.2754	0.0152	0.3327
56	20.18	-0.01	-0.0263	-0.0024	-0.0066	0.0912	0.2496	0.8401	0.0134	0.2801	0.0160	0.3335
57	20.52	-0.01	-0.0245	-0.0024	-0.0088	0.1017	0.3087	0.8561	0.0147	0.2843	0.0172	0.3320
58	20.86	-0.02	-0.0328	-0.0026	-0.0112	0.0808	0.3024	0.8701	0.0161	0.2875	0.0185	0.3305
59	21.20	-0.03	-0.0384	-0.0029	-0.0105	0.0768	0.2733	0.8878	0.0174	0.2895	0.0196	0.3261
60	21.52	-0.02	-0.0437	-0.0034	-0.0139	0.0789	0.3172	0.8984	0.0178	0.2934	0.0198	0.3265
61	21.86	-0.01	-0.0490	-0.0041	-0.0228	0.0623	0.3303	0.9228	0.0198	0.2958	0.0215	0.3235
62	22.17	-0.02	-0.0574	-0.0040	-0.0168	0.0705	0.3280	0.9370	0.0199	0.3044	0.0213	0.3249
63	22.49	-0.01	-0.0658	-0.0043	-0.0217	0.0653	0.3302	0.9619	0.0211	0.3081	0.0220	0.3203
64	22.78	-0.02	-0.0536	-0.0036	-0.0176	0.0642	0.3276	0.9767	0.0209	0.3137	0.0215	0.3213
65	23.10	-0.01	-0.0591	-0.0040	-0.0182	0.0645	0.3078	0.9902	0.0208	0.3172	0.0210	0.3203
66	23.40	-0.01	-0.0574	-0.0043	-0.0212	0.0749	0.3648	1.0073	0.0212	0.3223	0.0211	0.3199
67	23.72	-0.04	-0.0450	-0.0034	-0.0153	0.0767	0.3344	1.0204	0.0214	0.3272	0.0210	0.3205
68	24.02	-0.02	-0.0537	-0.0036	-0.0142	0.0680	0.2843	1.0291	0.0221	0.3270	0.0215	0.3178
69	24.33	-0.02	-0.0591	-0.0043	-0.0194	0.0736	0.3298	1.0495	0.0232	0.3318	0.0221	0.3162
70	24.64	-0.04	-0.0570	-0.0040	-0.0186	0.0710	0.3262	1.0675	0.0240	0.3350	0.0225	0.3138
71	25.01	-0.03	-0.0761	-0.0049	-0.0231	0.0650	0.3030	1.0739	0.0252	0.3359	0.0235	0.3128
72	25.30	-0.03	-0.0665	-0.0041	-0.0240	0.0624	0.3603	1.0900	0.0263	0.3400	0.0241	0.3119
73	25.60	-0.03	-0.0820	-0.0049	-0.0289	0.0604	0.3527	1.0987	0.0274	0.3410	0.0250	0.3105
74	25.90	-0.04	-0.0785	-0.0048	-0.0283	0.0611	0.3600	1.1109	0.0284	0.3452	0.0256	0.3107
75	26.20	-0.04	-0.0799	-0.0047	-0.0292	0.0588	0.3658	1.1304	0.0299	0.3464	0.0263	0.3047
76	26.51	-0.04	-0.0874	-0.0053	-0.0302	0.0606	0.3458	1.1478	0.0311	0.3498	0.0271	0.3047
77	26.81	-0.04	-0.0772	-0.0049	-0.0267	0.0635	0.3462	1.1510	0.0319	0.3507	0.0277	0.3047
78	27.09	-0.04	-0.0625	-0.0055	-0.0215	0.0888	0.3044	1.1678	0.0324	0.3542	0.0278	0.3033
79	27.42	-0.04	-0.0681	-0.0042	-0.0256	0.0617	0.3758	1.1793	0.0339	0.3553	0.0287	0.3013
80	27.73	-0.05	-0.0890	-0.0043	-0.0318	0.0493	0.3588	1.1887	0.0358	0.3587	0.0301	0.3018
81	28.05	-0.04	-0.0572	-0.0054	-0.0194	0.1078	0.3513	1.1993	0.0354	0.3607	0.0295	0.3008
82	28.36	-0.04	-0.0614	-0.0061	-0.0211	0.0967	0.3364	1.2090	0.0366	0.3629	0.0303	0.3001
83	28.66	-0.04	-0.0570	-0.0049	-0.0177	0.0854	0.3104	1.2157	0.0373	0.3644	0.0307	0.2989
84	28.95	-0.04	-0.0547	-0.0088	-0.0216	0.1147	0.3617	1.2261	0.0385	0.3658	0.0314	0.2983
85	29.27	-0.04	-0.0484	-0.0067	-0.0135	0.1380	0.2760	1.2420	0.0402	0.3686	0.0324	0.2967
86	29.59	-0.04	-0.0610	-0.0074	-0.0184	0.1221	0.3037	1.2530	0.0421	0.3701	0.0336	0.2954
87	29.93	-0.04	-0.0647	-0.0067	-0.0201	0.1035	0.3131	1.2655	0.0435	0.3699	0.0344	0.2923
88	30.23	-0.04	-0.0582	-0.0077	-0.0189	0.1331	0.3246	1.2706	0.0455	0.3688	0.0358	0.2907

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REF	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	SR 0.85	1.7	0.0	H2#1F12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPT3	YCPT3	CNF4	CH4	CH4	XCPT4	YCPT4
1	-2.41	0.03	0.0134	0.0010	-0.0007	0.0746	-0.0544	-0.0609	-0.0006	-0.0057	0.0044	0.0935
2	-2.47	0.04	-0.0014	0.0010	0.0034	-0.7142	-2.4525	-0.0524	-0.0011	-0.0035	0.0210	0.0660
3	-1.87	0.02	-0.0001	0.0010	0.0004	-9.9987	-8.6668	-0.0446	-0.0013	0.0012	0.0291	-0.0274
4	-1.31	0.03	0.0134	0.0010	-0.0007	0.0746	-0.0544	-0.0179	-0.0012	0.0013	0.0698	-0.0746
5	-0.72	0.02	0.0085	0.0010	0.0006	0.1176	0.0746	-0.0190	-0.0014	0.0055	0.0737	-0.2874
6	-0.17	0.02	-0.0014	0.0010	0.0034	-0.7142	-2.4525	-0.0150	-0.0011	0.0073	0.0767	-0.4868
7	0.36	0.01	0.0134	0.0010	-0.0007	0.0746	-0.0544	-0.0041	-0.0010	0.0079	0.1721	-1.2897
8	0.91	0.02	-0.0016	0.0006	0.0034	-0.4062	-2.1668	0.0024	-0.0011	0.0100	-0.4583	4.1465
9	1.44	0.02	0.0029	0.0005	0.0030	0.1774	1.0229	0.0014	-0.0011	0.0142	-0.7856	10.1189
10	1.96	0.02	-0.0016	0.0005	0.0035	-0.3124	-2.1668	0.0143	-0.0019	0.0175	-0.1328	1.2213
11	2.47	0.02	-0.0016	0.0005	0.0035	-0.3124	-2.1668	0.0263	-0.0024	0.0240	-0.0431	0.4117
12	2.96	0.02	0.0029	0.0005	0.0030	0.1774	1.0229	0.0413	-0.0032	0.0291	-0.0750	0.6727
13	3.44	0.01	0.0134	0.0004	0.0001	0.0219	0.0053	0.0462	-0.0041	0.0368	-0.0487	0.7964
14	3.90	0.02	0.0117	0.0000	0.0020	0.0043	0.1708	0.0728	-0.0046	0.0393	-0.0639	0.5393
15	4.34	0.02	0.0161	0.0000	0.0015	0.0031	0.0410	0.0841	-0.0052	0.0491	-0.0624	0.5841
16	4.83	0.02	0.0096	-0.0004	0.0055	-0.0469	0.5728	0.1008	-0.0056	0.0542	-0.0560	0.5376
17	5.29	0.02	0.0097	-0.0004	0.0055	-0.0464	0.5703	0.1309	-0.0061	0.0620	-0.0470	0.4738
18	5.78	0.01	0.0096	-0.0004	0.0056	-0.0469	0.5832	0.1471	-0.0067	0.0696	-0.0455	0.4733
19	6.23	0.03	0.0132	-0.0004	0.0054	-0.0247	0.7948	0.1822	-0.0068	0.0743	-0.0373	0.4079
20	6.71	0.02	0.0124	-0.0004	0.0077	-0.0751	0.5988	0.1889	-0.0072	0.0446	-0.0384	0.4481
21	7.17	0.01	0.0132	-0.0007	0.0068	-0.0530	0.5150	0.1974	-0.0077	0.0487	-0.0390	0.4497
22	7.64	0.0	0.0114	-0.0006	0.0103	-0.0570	0.4034	0.2318	-0.0073	0.0957	-0.0315	0.4130
23	8.07	0.01	0.0159	-0.0006	0.0098	-0.0409	0.6162	0.2521	-0.0072	0.1063	-0.0288	0.4217
24	8.57	0.01	0.0157	-0.0011	0.0098	-0.0732	0.6262	0.2690	-0.0074	0.1115	-0.0277	0.4166
25	8.94	0.02	0.0112	-0.0011	0.0104	-0.1027	0.4314	0.2902	-0.0076	0.1179	-0.0263	0.4062
26	9.36	0.02	0.0174	-0.0012	0.0138	-0.0648	0.7690	0.3236	-0.0069	0.1299	-0.0213	0.4015
27	9.76	0.0	0.0045	-0.0011	0.0156	-0.1353	1.8391	0.3537	-0.0070	0.1369	-0.0198	0.3869
28	10.20	0.02	0.0156	-0.0012	0.0182	-0.0801	1.1665	0.3748	-0.0071	0.1432	-0.0189	0.3820
29	10.61	0.0	0.0074	-0.0012	0.0166	-0.1542	2.1034	0.3415	-0.0073	0.1493	-0.0186	0.3817
30	11.05	0.01	0.0156	-0.0012	0.0182	-0.0801	1.1665	0.4168	-0.0073	0.1574	-0.0176	0.3776
31	11.46	0.02	0.0135	-0.0011	0.0195	-0.0809	1.4362	0.4545	-0.0068	0.1650	-0.0144	0.3591
32	11.84	0.02	0.0246	-0.0012	0.0174	-0.0420	0.6094	0.4735	-0.0067	0.1753	-0.0141	0.3702
33	12.21	0.01	0.0200	-0.0011	0.0175	-0.0550	0.8732	0.4836	-0.0069	0.1785	-0.0144	0.3692
34	12.54	0.01	0.0313	-0.0015	0.0195	-0.0527	0.6239	0.5175	-0.0072	0.1845	-0.0140	0.3566
35	12.97	0.02	0.0179	-0.0015	0.0210	-0.0866	1.1712	0.5272	-0.0070	0.1903	-0.0134	0.3609
36	13.31	0.01	0.0313	-0.0011	0.0193	-0.0767	0.6176	0.5417	-0.0071	0.1941	-0.0131	0.3657
37	13.67	0.02	0.0355	-0.0015	0.0188	-0.0437	0.5304	0.5654	-0.0071	0.2000	-0.0126	0.3534
38	14.03	0.01	0.0400	-0.0011	0.0187	-0.0247	0.4557	0.5406	-0.0064	0.2045	-0.0109	0.3463
39	14.42	0.01	0.0441	-0.0010	0.0204	-0.0232	0.4724	0.6149	-0.0044	0.2126	-0.0080	0.3457
40	14.78	0.0	0.0450	-0.0015	0.0197	-0.0444	0.5618	0.6140	-0.0046	0.2175	-0.0076	0.3542
41	15.09	0.03	0.0447	-0.0022	0.0194	-0.0668	0.5645	0.6561	-0.0025	0.2267	-0.0034	0.3456
42	15.47	0.02	0.0444	-0.0019	0.0206	-0.0552	0.5977	0.6730	-0.0019	0.2294	-0.0024	0.3409
43	15.82	0.0	0.0429	-0.0016	0.0265	-0.0788	0.6176	0.6889	-0.0008	0.2371	-0.0012	0.3442
44	16.16	0.0	0.0332	-0.0006	0.0240	-0.0196	0.7218	0.7021	-0.0003	0.2424	-0.0005	0.3453
45	16.49	0.01	0.0437	-0.0005	0.0205	-0.0126	0.4682	0.7310	0.0009	0.2478	0.0013	0.3390
46	16.85	0.02	0.0468	-0.0005	0.0226	-0.0107	0.4828	0.7477	0.0015	0.2538	0.0020	0.3395

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		Mx10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		5A		0.85		1.7	0.0	B2W1F12	15.400	0	0	0	0	FIXED
POINT	ALPHA	AFTA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4		
47	17.18	0.07	0.0554	-0.0002	0.0225	-0.0045	0.4054	0.7686	0.0010	0.2595	0.0040	0.3376		
48	17.52	0.0	0.0336	-0.0003	0.0242	-0.0089	0.7201	0.7920	0.0038	0.2662	0.0049	0.3361		
49	17.83	0.01	0.0336	-0.0003	0.0241	-0.0089	0.7171	0.8120	0.0095	0.2716	0.0068	0.3344		
50	18.17	0.01	0.0512	0.0001	0.0231	0.0020	0.4504	0.8489	0.0062	0.2726	0.0074	0.3211		
51	18.50	0.01	0.0404	0.0001	0.0266	0.0024	0.6511	0.8466	0.0073	0.2808	0.0086	0.3317		
52	18.85	0.0	0.0336	0.0001	0.0242	0.0030	0.7149	0.8721	0.0080	0.2857	0.0092	0.3276		
53	19.18	0.0	0.0513	0.0002	0.0230	0.0049	0.4442	0.8945	0.0093	0.2865	0.0104	0.3207		
54	19.53	0.0	0.0492	0.0007	0.0274	0.0152	0.5568	0.8969	0.0105	0.2933	0.0117	0.3270		
55	19.84	0.0	0.0444	0.0006	0.0275	0.0121	0.5559	0.8885	0.0109	0.2965	0.0120	0.3264		
56	20.18	-0.01	0.0435	0.0004	0.0314	0.0195	0.7217	0.9354	0.0117	0.2958	0.0126	0.3167		
57	20.52	-0.01	0.0452	0.0012	0.0280	0.0276	0.4186	0.9444	0.0130	0.3018	0.0138	0.3196		
58	20.86	-0.02	0.0522	0.0014	0.0313	0.0268	0.5995	0.9597	0.0150	0.3077	0.0157	0.3206		
59	21.20	-0.03	0.0450	0.0007	0.0260	0.0167	0.6221	0.9688	0.0163	0.3110	0.0168	0.3210		
60	21.52	-0.02	0.0633	0.0012	0.0260	0.0177	0.4106	0.9917	0.0176	0.3129	0.0178	0.3155		
61	21.86	-0.01	0.0446	0.0007	0.0275	0.0151	0.5550	1.0129	0.0189	0.3168	0.0187	0.3128		
62	22.17	-0.02	0.0705	0.0013	0.0285	0.0184	0.4041	1.0300	0.0189	0.3212	0.0183	0.3119		
63	22.49	-0.01	0.0498	0.0012	0.0275	0.0251	0.5521	1.0517	0.0200	0.3234	0.0190	0.3075		
64	22.78	-0.02	0.0572	0.0017	0.0300	0.0306	0.5238	1.0634	0.0210	0.3299	0.0198	0.3103		
65	23.10	-0.01	0.0701	0.0018	0.0293	0.0257	0.4174	1.0865	0.0218	0.3341	0.0201	0.3075		
66	23.40	-0.01	0.0568	0.0012	0.0299	0.0220	0.5269	1.1023	0.0225	0.3400	0.0204	0.3085		
67	23.72	-0.04	0.0486	0.0021	0.0318	0.0313	0.4630	1.1258	0.0227	0.3424	0.0202	0.3042		
68	24.02	-0.02	0.0551	0.0022	0.0333	0.0408	0.0036	1.1356	0.0235	0.3476	0.0207	0.3061		
69	24.33	-0.02	0.0550	0.0014	0.0332	0.0345	0.6041	1.1658	0.0240	0.3493	0.0206	0.2996		
70	24.69	-0.04	0.0778	0.0030	0.0305	0.0442	0.3923	1.1732	0.0244	0.3555	0.0208	0.3030		
71	25.01	-0.03	0.0758	0.0027	0.0342	0.0356	0.4506	1.1857	0.0250	0.3588	0.0211	0.3026		
72	25.30	-0.03	0.0687	0.0026	0.0316	0.0346	0.4599	1.1936	0.0263	0.3611	0.0221	0.3026		
73	25.66	-0.03	0.0709	0.0038	0.0363	0.0536	0.5123	1.2014	0.0274	0.3648	0.0226	0.3037		
74	25.90	-0.04	0.0722	0.0025	0.0329	0.0353	0.4551	1.2143	0.0279	0.3665	0.0230	0.3018		
75	26.20	-0.04	0.0728	0.0039	0.0328	0.0536	0.4500	1.2271	0.0295	0.3701	0.0240	0.3016		
76	26.51	-0.04	0.0732	0.0037	0.0319	0.0512	0.4357	1.2489	0.0303	0.3715	0.0243	0.2975		
77	26.81	-0.04	0.0709	0.0038	0.0363	0.0536	0.5123	1.2533	0.0309	0.3710	0.0247	0.2960		
78	27.09	-0.04	0.0847	0.0043	0.0348	0.0508	0.4111	1.2234	0.0371	0.3642	0.0303	0.2977		
79	27.42	-0.04	0.0852	0.0046	0.0321	0.0539	0.3727	1.2847	0.0335	0.3777	0.0261	0.2940		
80	27.73	-0.05	0.0932	0.0044	0.0346	0.0477	0.3718	1.2884	0.0344	0.3796	0.0267	0.2946		
81	28.05	-0.04	0.1070	0.0051	0.0330	0.0477	0.3089	1.2448	0.0408	0.3666	0.0328	0.2945		
82	28.34	-0.04	0.0935	0.0050	0.0346	0.0540	0.3706	1.2667	0.0419	0.3673	0.0331	0.2900		
83	28.66	-0.04	0.1056	0.0051	0.0358	0.0483	0.3389	1.2665	0.0424	0.3673	0.0335	0.2900		
84	28.95	-0.04	0.1114	0.0052	0.0326	0.0486	0.2920	1.2841	0.0440	0.3703	0.0343	0.2884		
85	29.27	-0.04	0.1117	0.0056	0.0325	0.0501	0.2911	1.2919	0.0456	0.3708	0.0353	0.2870		
86	29.59	-0.04	0.1061	0.0058	0.0346	0.0451	0.3360	1.2928	0.0455	0.3727	0.0352	0.2883		
87	29.93	-0.04	0.1141	0.0052	0.0366	0.0460	0.3209	1.3126	0.0463	0.3746	0.0353	0.2854		
88	30.23	-0.04	0.1118	0.0051	0.0326	0.0456	0.2921	1.3124	0.0471	0.3745	0.0359	0.2854		

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUMF	L	UEL1	UEL2	UEL3	DEL4	TRANSITION
6	59	0.92	1.7	0.0	H2=1F12	15.400	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.43	0.06	-0.6730	0.0613	0.2662	0.0745	0.0290	0.2379	-0.0911	
2	-2.84	0.05	-0.7100	0.0571	0.1824	0.0096	0.0190	0.2379	-0.0805	
3	-2.83	0.04	-0.6341	0.0559	0.1277	0.0179	0.0190	0.2342	-0.0881	
4	-2.84	0.06	-0.6425	0.0266	0.2711	0.0055	0.0200	0.2326	-0.0385	
5	-2.77	0.03	-0.6362	0.0268	0.0531	-0.0353	0.0200	0.2365	-0.0471	
6	-2.12	0.02	-0.5103	-0.0034	0.1573	0.0158	0.0190	0.2428	0.0067	
7	-1.50	0.05	-0.3401	-0.0084	0.1724	0.0176	0.0210	0.2479	0.0143	
8	-0.91	0.04	-0.2000	-0.0250	0.1138	-0.0143	0.0210	0.2493	0.1750	
9	-0.39	0.05	-0.0426	-0.0004	0.1923	0.0318	0.0100	0.2609	0.0044	
10	0.14	0.04	0.0752	0.0277	0.1189	-0.0395	0.0150	0.2570	0.3686	
11	0.71	0.06	0.1703	0.0326	0.2376	0.0054	0.0110	0.2609	0.1913	
12	1.27	0.04	0.3316	0.0500	0.1489	0.0105	0.0150	0.2571	0.1498	
13	1.74	0.03	0.5117	0.0515	0.0901	-0.0171	0.0150	0.2626	0.1192	
14	2.30	0.04	0.5460	0.0315	0.1310	-0.0144	0.0180	0.2635	0.0537	
15	2.79	0.03	0.7170	-0.0259	0.1534	0.0102	0.0180	0.2625	-0.0362	
16	3.29	0.03	0.8346	-0.0322	0.1346	0.0116	0.0230	0.2547	-0.0384	
17	3.77	0.02	1.0020	-0.1189	0.0872	-0.0431	0.0230	0.2532	-0.1187	
18	4.26	0.02	1.1386	-0.2142	0.1314	-0.0202	0.0250	0.2572	-0.1481	
19	4.72	0.02	1.2726	-0.2769	0.1649	-0.0159	0.0300	0.2552	-0.2176	
20	5.19	0.02	1.4779	-0.4533	0.1573	-0.0411	0.0260	0.2567	-0.3067	
21	5.65	0.01	1.6328	-0.5921	0.0701	-0.0121	0.0210	0.2503	-0.3626	
22	6.14	0.0	1.8400	-0.7442	0.0041	0.0153	0.0340	0.2421	-0.4045	
23	6.61	0.02	2.0321	-0.9172	0.1003	0.0606	0.0210	0.2449	-0.4514	
24	7.08	0.01	2.2116	-1.0665	0.0638	0.0117	0.0260	0.2463	-0.4422	
25	7.54	0.01	2.3784	-1.2236	0.0437	-0.0532	0.0240	0.2416	-0.5144	
26	7.99	0.01	2.5169	-1.3149	0.1124	0.0146	0.0200	0.2381	-0.5244	
27	8.41	0.01	2.6718	-1.5637	0.1014	0.0328	0.0250	0.2324	-0.5853	
28	8.83	-0.01	2.8432	-1.6744	0.0651	0.0349	0.0340	0.2284	-0.5491	
29	9.22	-0.02	3.0111	-1.8964	0.0175	0.0165	0.0300	0.2274	-0.6306	
30	9.69	-0.02	3.2314	-2.1072	0.0438	-0.0163	0.0230	0.2244	-0.6521	
31	10.13	0.0	3.4451	-2.2374	0.1029	0.0369	0.0300	0.2249	-0.6674	
32	10.51	-0.01	3.4792	-2.4213	0.2327	0.0409	0.0240	0.2212	-0.6454	
33	10.94	0.01	3.6560	-2.6676	0.1034	-0.0028	0.0290	0.2204	-0.7297	
34	11.34	0.01	3.8310	-2.7927	0.0780	-0.0212	0.0240	0.2094	-0.7290	
35	11.77	0.01	3.9407	-2.7806	0.0430	0.0044	0.0240	0.2085	-0.7489	
36	12.14	0.02	4.1621	-3.1512	0.1082	-0.0045	0.0280	0.2034	-0.7571	
37	12.53	0.02	4.3137	-3.3070	0.1345	0.0627	0.0220	0.1994	-0.7656	
38	12.88	0.02	4.4404	-3.4336	0.1165	0.0064	0.0140	0.1957	-0.7663	
39	13.26	0.02	4.6190	-3.5400	0.0410	0.0516	0.0220	0.1925	-0.7772	
40	13.64	0.0	4.7616	-3.7074	0.0101	0.0044	0.0140	0.1897	-0.7781	
41	13.94	0.02	4.9415	-3.9374	0.0449	0.0625	0.0170	0.1857	-0.7968	
42	14.33	0.01	5.0835	-4.0441	0.0476	0.0644	0.0050	0.1784	-0.8118	
43	14.71	0.01	5.1896	-4.2614	0.0332	0.0325	0.0050	0.1773	-0.8212	
44	15.09	0.03	5.2592	-4.3493	0.1445	0.1477	-0.0140	0.1743	-0.8346	
45	15.45	0.02	5.4505	-4.6181	0.1229	0.1249	-0.0310	0.1773	-0.8473	
46	15.77	0.02	5.4881	-4.8237	0.1232	0.0445	-0.0320	0.1765	-0.8632	

MANTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PNT		MACH		PNT		CONF		L		DELT1	DELT2	DELT3	DELT4	TRANSITION
	6	59	0.92	1.7	0.0	B2W1P12	15.400	0	0	0	0	0	0	0	FIXED
ALPHA	HETA	CN	CLM	CY	CLN	CLL	CAF	ACP							
47	16.11	0.01	5.7252	-4.9726	0.0676	0.0664	-0.0090	0.1697	-0.8486						
48	16.46	0.02	5.8171	-5.1974	0.0930	0.1128	0.0300	0.1653	-0.8935						
49	16.76	0.02	5.9452	-4.3447	0.1486	0.0210	0.0250	0.1634	-0.8460						
50	17.14	-0.02	6.1327	-5.5442	-0.0280	0.1542	0.0310	0.1636	-0.9040						
51	17.44	-0.01	6.2402	-5.7260	0.0422	0.1129	0.0180	0.1571	-0.9109						
52	17.81	-0.01	6.3949	-5.9142	0.0234	0.1447	0.0130	0.1527	-0.9247						
53	18.14	-0.02	6.5708	-6.0376	-0.0527	0.2367	0.0020	0.1411	-0.9188						
54	18.49	-0.02	6.7176	-6.2301	-0.0638	0.1933	-0.0030	0.1379	-0.9274						
55	18.91	-0.02	6.8410	-6.3788	-0.0344	0.1471	0.0020	0.1274	-0.9324						
56	19.16	-0.01	7.0318	-6.6019	-0.0379	0.2110	-0.0050	0.1225	-0.9389						
57	19.48	-0.02	7.1228	-6.7253	-0.0747	0.1486	-0.0080	0.1113	-0.9442						
58	19.82	-0.01	7.2912	-6.9192	-0.0010	0.1454	0.0030	0.1139	-0.9490						
59	20.15	-0.02	7.3947	-7.0605	-0.0600	0.2110	-0.0050	0.1135	-0.9547						
60	20.49	-0.01	7.4844	-7.1256	-0.0115	0.2531	-0.0150	0.1147	-0.9514						
61	20.83	-0.02	7.6646	-7.3679	-0.1000	0.1930	-0.0240	0.1132	-0.9413						
62	21.18	-0.01	7.7841	-7.5062	-0.0144	0.2704	-0.0360	0.1164	-0.9643						
63	21.52	-0.02	7.9809	-7.6519	-0.0639	0.1904	-0.0390	0.1169	-0.9578						
64	21.95	-0.02	8.0903	-7.8129	-0.0543	0.2140	-0.0390	0.1153	-0.9657						
65	22.19	-0.03	8.2554	-7.8963	-0.0936	0.1400	-0.0490	0.1101	-0.9461						
66	22.50	-0.02	8.3444	-8.0836	-0.0575	0.2435	-0.0350	0.1124	-0.9687						
67	22.82	-0.01	8.4608	-8.2046	-0.0386	0.3110	-0.0600	0.1091	-0.9697						
68	23.11	-0.02	8.6206	-8.3073	-0.0747	0.3125	-0.0550	0.1046	-0.9637						
69	23.45	-0.02	8.6436	-8.3815	-0.0856	0.3356	-0.0330	0.0922	-0.9641						
70	23.74	-0.02	8.7432	-8.4839	-0.0525	0.3045	-0.0660	0.0884	-0.9703						
71	24.04	-0.02	8.9339	-8.6300	0.0027	0.3042	-0.0770	0.0770	-0.9660						
72	24.39	-0.04	8.9921	-8.7305	-0.0666	0.2672	-0.0710	0.0691	-0.9709						
73	24.71	-0.02	9.1713	-8.8023	-0.0244	0.3731	-0.0930	0.0633	-0.9598						
74	25.04	-0.02	9.3178	-8.9004	0.0036	0.2849	-0.0710	0.0532	-0.9452						
75	25.35	-0.03	9.4088	-8.9518	0.0003	0.2705	-0.0760	0.0547	-0.9514						
76	25.65	-0.04	9.4971	-9.0044	-0.0796	0.2874	-0.0920	0.0456	-0.9481						
77	25.97	-0.04	9.6948	-9.1373	-0.1265	0.3141	-0.0930	0.0410	-0.9425						
78	26.25	-0.03	9.7944	-9.1784	-0.0350	0.3350	-0.0870	0.0375	-0.9367						
79	26.56	-0.04	9.9248	-9.2224	-0.0419	0.2736	-0.0870	0.0299	-0.9289						
80	26.84	-0.04	10.0040	-9.2492	-0.0452	0.3552	-0.1020	0.0284	-0.9245						
81	27.17	-0.04	10.1897	-9.3782	-0.0444	0.2914	-0.0910	0.0242	-0.9204						
82	27.49	-0.03	10.3634	-9.2345	-0.0067	0.3553	-0.1170	0.0184	-0.8915						
83	27.80	-0.04	10.4411	-9.3173	-0.0544	0.2491	-0.0920	0.0147	-0.8924						
84	28.12	-0.04	10.5806	-9.3376	-0.0745	0.3972	-0.1260	0.0114	-0.8825						
85	28.43	-0.04	10.7556	-9.3746	-0.0573	0.2452	-0.1040	0.0092	-0.8716						
86	28.74	-0.04	10.8709	-9.3540	-0.0165	0.3131	-0.1310	0.0082	-0.8608						
87	29.07	-0.04	11.0455	-9.2804	-0.0374	0.2344	-0.1520	0.0058	-0.8402						
88	29.38	-0.04	11.2019	-9.2965	0.0207	0.2140	-0.1360	0.0045	-0.8299						
89	29.72	-0.03	11.3720	-9.2337	-0.0164	0.3603	-0.1590	0.0028	-0.8120						
90	30.06	-0.08	11.5847	-9.1545	-0.2007	0.0070	-0.1580	0.0013	-0.7902						
91	30.37	-0.01	11.6316	-9.1691	0.2249	0.1811	-0.1640	-0.0138	-0.7883						

MAKIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	MFTA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	-2.43	0.06	0.0728	-0.0022	0.0024	-0.0985	0.1051	-0.0263	0.0013	-0.0403	-0.0513	1.1507
2	-2.84	0.05	0.0196	-0.0024	0.0017	-0.1774	0.0883	-0.0265	0.0010	-0.0291	-0.0336	1.0993
3	-2.83	0.04	0.0182	-0.0022	0.0022	-0.1736	0.1169	-0.0203	0.0010	-0.0296	-0.0517	1.4564
4	-2.84	0.06	0.0215	-0.0020	0.0024	-0.0930	0.1286	-0.0189	0.0009	-0.0289	-0.0503	1.5290
5	-2.77	0.03	0.0244	-0.0022	0.0014	-0.0901	0.0586	-0.0145	0.0010	-0.0285	-0.0690	1.9677
6	-2.12	0.02	0.0200	-0.0021	0.0020	-0.1050	0.0482	-0.0112	0.0002	-0.0276	-0.0179	2.0207
7	-1.50	0.05	0.0255	-0.0014	0.0016	-0.0469	0.0626	0.0043	-0.0003	-0.0174	-0.0414	-4.0389
8	-0.91	0.04	0.0260	-0.0011	0.0015	-0.0447	0.0563	0.0155	-0.0002	-0.0137	-0.0129	-0.8861
9	-0.39	0.05	0.0208	-0.0007	0.0005	-0.0361	0.0255	0.0178	-0.0001	-0.0106	-0.0094	-0.6050
10	0.19	0.04	0.0210	-0.0003	0.0010	-0.0130	0.0419	0.0218	0.0005	-0.0091	0.0279	-0.4191
11	0.71	0.06	0.0216	-0.0002	-0.0003	-0.0091	-0.0110	0.0274	0.0014	-0.0078	0.0529	-0.2836
12	1.27	0.04	0.0219	0.0	0.0013	0.0	0.0492	0.0324	0.0016	-0.0056	0.0486	-0.1713
13	1.78	0.03	0.0227	0.0002	0.0013	0.0090	0.0584	0.0382	0.0017	-0.0024	0.0445	-0.0621
14	2.30	0.04	0.0257	0.0005	0.0018	0.0233	0.0586	0.0495	0.0011	0.0019	0.0232	0.0783
15	2.79	0.03	0.0251	0.0002	0.0015	0.0040	0.0583	0.0578	0.0011	0.0056	0.0199	0.0962
16	3.29	0.03	0.0209	0.0005	0.0015	0.0186	0.0544	0.0670	0.0009	0.0106	0.0134	0.1584
17	3.77	0.02	0.0243	0.0007	0.0025	0.0309	0.1028	0.0878	0.0001	0.0152	0.0018	0.1835
18	4.26	0.02	0.0285	0.0005	0.0015	0.0193	0.0525	0.0949	-0.0006	0.0273	-0.0063	0.2352
19	4.72	0.02	0.0285	0.0005	0.0030	0.0228	0.1051	0.1091	-0.0010	0.0270	-0.0092	0.2480
20	5.19	0.02	0.0224	0.0005	0.0027	0.0245	0.1189	0.1285	-0.0020	0.0354	-0.0156	0.2756
21	5.65	0.01	0.0253	0.0004	0.0018	0.0158	0.0723	0.1468	-0.0031	0.0423	-0.0215	0.2883
22	6.14	0.0	0.0236	0.0003	0.0026	0.0148	0.1086	0.1679	-0.0041	0.0504	-0.0247	0.3005
23	6.61	0.02	0.0247	0.0002	0.0044	0.0101	0.1814	0.1841	-0.0055	0.0608	-0.0299	0.3305
24	7.08	0.01	0.0233	0.0001	0.0027	0.0064	0.1143	0.2011	-0.0065	0.0668	-0.0323	0.3322
25	7.54	0.01	0.0230	0.0	0.0035	0.0	0.1506	0.2238	-0.0077	0.0761	-0.0344	0.3399
26	7.99	0.01	0.0286	-0.0001	0.0043	-0.0035	0.1514	0.2406	-0.0088	0.0836	-0.0368	0.3473
27	8.41	0.01	0.0246	-0.0000	0.0020	-0.0020	0.0812	0.2601	-0.0089	0.0916	-0.0344	0.3521
28	8.83	-0.01	0.0184	-0.0002	0.0024	-0.0109	0.1376	0.2800	-0.0092	0.0992	-0.0328	0.3543
29	9.28	-0.02	0.0229	-0.0002	0.0020	-0.0087	0.0887	0.3008	-0.0096	0.1074	-0.0319	0.3571
30	9.69	-0.02	0.0250	0.0002	0.0019	0.0080	0.0772	0.3243	-0.0093	0.1180	-0.0287	0.3637
31	10.13	0.0	0.0232	0.0001	0.0034	0.0043	0.1479	0.3475	-0.0095	0.1253	-0.0277	0.3659
32	10.51	-0.01	0.0215	-0.0002	0.0014	-0.0093	0.0614	0.3635	-0.0095	0.1337	-0.0261	0.3679
33	10.94	0.01	0.0141	-0.0001	0.0028	-0.0106	0.1417	0.3844	-0.0098	0.1439	-0.0248	0.3649
34	11.34	0.01	0.0178	-0.0005	0.0026	-0.0109	0.1478	0.4151	-0.0102	0.1513	-0.0247	0.3643
35	11.77	0.01	0.0180	-0.0005	0.0019	-0.0278	0.1054	0.4365	-0.0107	0.1544	-0.0245	0.3648
36	12.14	0.02	0.0185	-0.0001	0.0025	-0.0081	0.1332	0.4514	-0.0114	0.1662	-0.0254	0.3682
37	12.53	0.02	0.0151	-0.0004	0.0027	-0.0298	0.1478	0.4642	-0.0121	0.1718	-0.0261	0.3700
38	12.88	0.02	0.0135	-0.0006	0.0013	-0.0481	0.0962	0.4847	-0.0125	0.1775	-0.0258	0.3662
39	13.26	0.02	0.0104	-0.0005	0.0009	-0.0613	0.0879	0.4979	-0.0126	0.1830	-0.0254	0.3674
40	13.64	0.0	0.0178	-0.0007	0.0008	-0.0421	0.0467	0.5124	-0.0130	0.1878	-0.0255	0.3666
41	13.99	0.02	0.0123	-0.0015	-0.0001	-0.1260	-0.0082	0.5459	-0.0128	0.1965	-0.0235	0.3600
42	14.33	0.01	0.0135	-0.0009	-0.0014	-0.0667	-0.1038	0.5601	-0.0127	0.2013	-0.0227	0.3595
43	14.71	0.01	-0.0040	-0.0019	-0.0038	-0.1749	0.0582	0.5737	-0.0131	0.2066	-0.0226	0.3601
44	15.09	0.03	-0.0041	-0.0020	-0.0089	0.2469	1.0986	0.5925	-0.0131	0.2114	-0.0221	0.3568
45	15.45	0.02	-0.0019	-0.0024	-0.0111	0.1119	0.5067	0.6110	-0.0128	0.2181	-0.0209	0.3569
46	15.77	0.02	-0.0322	-0.0027	-0.0157	0.0854	0.4885	0.6294	-0.0123	0.2249	-0.0195	0.3574

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MARTIN MISSILE TAILS EFFECTS DATA

TEST POINT	MACH	W10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	59	0.92	1.7	0.0	0.82	1.12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CM1	CM1	YCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2
47	16.11	0.01	-0.0257	-0.0021	-0.0115	0.0036	0.4461	0.6558	-0.0118	0.2309	-0.0181	0.3521
48	16.46	0.02	-0.0022	-0.0007	-0.0042	0.3608	1.9241	0.6770	-0.0101	0.2379	-0.0150	0.3514
49	16.78	0.02	0.0014	-0.0001	-0.0001	-0.0114	-0.0954	0.6930	-0.0107	0.2410	-0.0154	0.3478
50	17.14	-0.02	-0.0019	-0.0006	-0.0042	0.3157	2.2240	0.7112	-0.0090	0.2476	-0.0127	0.3481
51	17.48	-0.01	-0.0051	-0.0006	-0.0031	0.1274	0.6077	0.7254	-0.0084	0.2509	-0.0116	0.3459
52	17.81	-0.01	-0.0079	-0.0008	-0.0075	0.1076	0.9535	0.7503	-0.0065	0.2570	-0.0087	0.3425
53	18.14	-0.02	-0.0155	-0.0010	-0.0067	0.0645	0.4300	0.7584	-0.0060	0.2585	-0.0080	0.3409
54	18.49	-0.02	-0.0139	-0.0004	-0.0084	0.0683	0.6046	0.7879	-0.0050	0.2643	-0.0064	0.3372
55	18.81	-0.02	-0.0143	-0.0012	-0.0084	0.0874	0.5850	0.7492	-0.0041	0.2674	-0.0051	0.3346
56	19.16	-0.01	-0.0253	-0.0015	-0.0116	0.0570	0.4397	0.8238	-0.0030	0.2735	-0.0036	0.3320
57	19.48	-0.02	-0.0293	-0.0016	-0.0127	0.0546	0.4322	0.8401	-0.0013	0.2777	-0.0016	0.3306
58	19.82	-0.01	-0.0304	-0.0014	-0.0139	0.0477	0.4592	0.8576	-0.0018	0.2832	-0.0022	0.3302
59	20.15	-0.02	-0.0301	-0.0011	-0.0129	0.0382	0.4296	0.8747	-0.0010	0.2878	-0.0012	0.3290
60	20.49	-0.01	-0.0301	-0.0012	-0.0137	0.0415	0.4561	0.8865	-0.0002	0.2911	-0.0002	0.3284
61	20.83	-0.02	-0.0357	-0.0013	-0.0182	0.0378	0.5047	0.9118	0.0005	0.2969	0.0006	0.3256
62	21.18	-0.01	-0.0445	-0.0016	-0.0206	0.0359	0.4636	0.9292	0.0016	0.3010	0.0017	0.3240
63	21.52	-0.02	-0.0369	-0.0013	-0.0182	0.0352	0.4931	0.9458	0.0023	0.3054	0.0024	0.3229
64	21.85	-0.02	-0.0397	-0.0013	-0.0183	0.0327	0.4617	0.9594	0.0029	0.3090	0.0031	0.3223
65	22.19	-0.03	-0.0407	-0.0013	-0.0214	0.0319	0.5244	0.9732	0.0036	0.3126	0.0037	0.3212
66	22.50	-0.02	-0.0477	-0.0011	-0.0226	0.0241	0.4737	0.9948	0.0048	0.3174	0.0049	0.3190
67	22.82	-0.01	-0.0490	-0.0012	-0.0239	0.0245	0.4883	1.0076	0.0049	0.3216	0.0049	0.3191
68	23.11	-0.02	-0.0570	-0.0004	-0.0267	0.0167	0.4683	1.0234	0.0059	0.3254	0.0058	0.3176
69	23.45	-0.02	-0.0568	-0.0004	-0.0270	0.0167	0.4758	1.0363	0.0070	0.3284	0.0068	0.3150
70	23.74	-0.02	-0.0527	-0.0010	-0.0260	0.0199	0.4926	1.0522	0.0086	0.3290	0.0082	0.3127
71	24.09	-0.02	-0.0672	-0.0014	-0.0318	0.0216	0.4731	1.0677	0.0106	0.3330	0.0100	0.3119
72	24.39	-0.04	-0.0580	-0.0016	-0.0284	0.0284	0.4625	1.0764	0.0111	0.3348	0.0103	0.3109
73	24.71	-0.02	-0.0737	-0.0014	-0.0342	0.0258	0.4635	1.0978	0.0136	0.3380	0.0124	0.3079
74	25.04	-0.02	-0.0577	-0.0022	-0.0258	0.0390	0.4476	1.1063	0.0143	0.3408	0.0129	0.3081
75	25.35	-0.03	-0.0722	-0.0017	-0.0331	0.0242	0.4574	1.1172	0.0158	0.3449	0.0142	0.3078
76	25.65	-0.04	-0.0778	-0.0015	-0.0332	0.0199	0.4270	1.1227	0.0166	0.3441	0.0148	0.3065
77	25.97	-0.04	-0.0857	-0.0013	-0.0376	0.0152	0.4394	1.1426	0.0181	0.3488	0.0158	0.3053
78	26.25	-0.03	-0.0735	-0.0004	-0.0369	0.0129	0.5019	1.1496	0.0183	0.3501	0.0160	0.3045
79	26.56	-0.04	-0.0634	-0.0005	-0.0327	0.0103	0.5162	1.1639	0.0197	0.3519	0.0170	0.3024
80	26.84	-0.04	-0.0867	-0.0014	-0.0440	0.0167	0.4074	1.1716	0.0212	0.3533	0.0181	0.3016
81	27.17	-0.04	-0.0783	-0.0020	-0.0364	0.0262	0.4660	1.1798	0.0223	0.3540	0.0189	0.3004
82	27.44	-0.03	-0.0884	-0.0028	-0.0413	0.0110	0.4779	1.1908	0.0239	0.3562	0.0201	0.2992
83	27.80	-0.04	-0.0847	-0.0020	-0.0328	0.0143	0.5443	1.2000	0.0241	0.3589	0.0201	0.2991
84	28.12	-0.04	-0.0810	-0.0031	-0.0404	0.0281	0.4048	1.2136	0.0252	0.3606	0.0208	0.2971
85	28.43	-0.04	-0.0866	-0.0033	-0.0284	0.0592	0.4457	1.2186	0.0264	0.3617	0.0204	0.2964
86	28.74	-0.04	-0.0718	-0.0041	-0.0335	0.0578	0.4683	1.2270	0.0258	0.3644	0.0210	0.2970
87	29.07	-0.04	-0.0789	-0.0057	-0.0300	0.0722	0.3801	1.2412	0.0268	0.3649	0.0216	0.2940
88	29.38	-0.04	-0.0579	-0.0059	-0.0244	0.1019	0.4282	1.2573	0.0278	0.3693	0.0221	0.2938
89	29.72	-0.03	-0.0545	-0.0063	-0.0210	0.1165	0.3846	1.2665	0.0279	0.3715	0.0221	0.2933
90	30.06	-0.08	-0.0533	-0.0074	-0.0197	0.1248	0.3315	1.2773	0.0284	0.3722	0.0227	0.2914
91	30.37	-0.01	-0.0518	-0.0080	-0.0167	0.1554	0.3216	1.2856	0.0295	0.3735	0.0230	0.2905

MARTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	MFA	CONF	LM3	CM3	XCPF3	YCPF3	CMF4	CM4	CM4	XCPF4	YCPF4
TEST PART NAME RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 59 0.9g 1.7 0.0 0.2M1F12 15.400 0 0 0 0 FIXED												
1	-2.83	0.06	0.0209	0.0020	-0.0024	0.0957	-0.1165	-0.1093	-0.0001	0.0041	0.0014	-0.0373
2	-2.84	0.05	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.0964	-0.0002	0.0033	0.0026	-0.0346
3	-2.83	0.04	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.1010	-0.0005	0.0045	0.0054	-0.0450
4	-2.84	0.04	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.1042	-0.0001	0.0047	0.0014	-0.0437
5	-2.77	0.03	0.0211	0.0024	-0.0025	0.1161	-0.1170	-0.1013	-0.0002	0.0052	0.0025	-0.0518
6	-2.12	0.02	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.0945	-0.0010	0.0102	0.0106	-0.1081
7	-1.50	0.05	0.0209	0.0021	-0.0024	0.1005	-0.1165	-0.0787	-0.0012	0.0120	0.0152	-0.1522
8	-0.91	0.04	0.0208	0.0020	-0.0024	0.0461	-0.1139	-0.0755	-0.0012	0.0151	0.0159	-0.2006
9	-0.39	0.05	0.0249	0.0020	-0.0029	0.0403	-0.1166	-0.0601	-0.0010	0.0169	0.0175	-0.2808
10	0.19	0.04	0.0408	0.0017	-0.0047	0.0417	-0.1153	-0.0691	-0.0005	0.0201	0.0072	-0.2905
11	0.71	0.06	0.0407	0.0013	-0.0046	0.0337	-0.1140	-0.0531	-0.0006	0.0204	0.0122	-0.3843
12	1.27	0.04	0.0405	0.0010	-0.0046	0.0259	-0.1137	-0.0453	-0.0010	0.0223	0.0221	-0.4924
13	1.76	0.03	0.0401	0.0009	-0.0038	0.0237	-0.0957	-0.0422	-0.0010	0.0261	0.0249	-0.6194
14	2.30	0.04	0.0399	0.0006	-0.0038	0.0150	-0.0954	-0.0308	-0.0017	0.0298	0.0568	-0.9687
15	2.79	0.03	0.0387	0.0005	-0.0015	0.0129	-0.0384	-0.0157	-0.0022	0.0345	0.1433	-2.1954
16	3.29	0.03	0.0384	0.0000	-0.0014	0.0013	-0.0306	0.0078	-0.0029	0.0373	-0.3781	4.7819
17	3.77	0.02	0.0379	-0.0000	-0.0004	-0.0013	-0.0151	0.0063	-0.0038	0.0446	-0.6031	7.0793
18	4.26	0.02	0.0365	-0.0007	0.0014	-0.0142	0.0483	0.0329	-0.0054	0.0529	-0.1661	1.6137
19	4.72	0.02	0.0365	-0.0007	0.0014	-0.0192	0.0483	0.0480	-0.0065	0.0575	-0.1354	1.1978
20	5.19	0.02	0.0440	-0.0007	0.0017	-0.0159	0.0378	0.0737	-0.0077	0.0686	-0.1051	0.9316
21	5.65	0.01	0.0445	-0.0006	0.0004	-0.0124	0.0074	0.0921	-0.0094	0.0772	-0.1020	0.8381
22	6.14	0.0	0.0380	-0.0007	0.0013	-0.0184	0.0312	0.1227	-0.0102	0.0843	-0.0835	0.6869
23	6.61	0.02	0.0375	-0.0010	0.0030	-0.0253	0.0750	0.1413	-0.0120	0.0928	-0.0849	0.6566
24	7.08	0.01	0.0339	-0.0010	0.0065	-0.0295	0.1416	0.1588	-0.0127	0.1041	-0.0800	0.6556
25	7.54	0.01	0.0472	-0.0010	0.0028	-0.0212	0.0599	0.1946	-0.0138	0.1079	-0.0709	0.5547
26	7.99	0.01	0.0378	-0.0014	0.0061	-0.0384	0.1613	0.2049	-0.0145	0.1161	-0.0708	0.5665
27	8.41	0.01	0.0454	-0.0014	0.0059	-0.0319	0.1306	0.2385	-0.0144	0.1269	-0.0604	0.5324
28	8.83	-0.01	0.0452	-0.0014	0.0060	-0.0319	0.1310	0.2698	-0.0142	0.1320	-0.0526	0.4893
29	9.26	-0.02	0.0442	-0.0015	0.0083	-0.0351	0.1884	0.2868	-0.0146	0.1441	-0.0509	0.5023
30	9.69	-0.02	0.0336	-0.0017	0.0140	-0.0521	0.4165	0.2744	-0.0144	0.1531	-0.0443	0.4714
31	10.13	0.0	0.0448	-0.0020	0.0089	-0.0420	0.1816	0.3304	-0.0155	0.1624	-0.0468	0.4904
32	10.51	-0.01	0.0316	-0.0017	0.0140	-0.0521	0.4165	0.3653	-0.0156	0.1703	-0.0427	0.4662
33	10.94	0.01	0.0429	-0.0015	0.0107	-0.0350	0.2443	0.4039	-0.0162	0.1756	-0.0401	0.4347
34	11.34	0.01	0.0432	-0.0017	0.0124	-0.0319	0.2336	0.4138	-0.0162	0.1835	-0.0393	0.4434
35	11.77	0.01	0.0533	-0.0015	0.0124	-0.0281	0.2319	0.4357	-0.0159	0.1923	-0.0365	0.4419
36	12.14	0.02	0.0538	-0.0015	0.0116	-0.0279	0.2161	0.4638	-0.0159	0.1972	-0.0343	0.4253
37	12.53	0.02	0.0461	-0.0017	0.0177	-0.0471	0.2681	0.4480	-0.0161	0.2022	-0.0333	0.4187
38	12.94	0.02	0.0422	-0.0015	0.0144	-0.0287	0.2834	0.4982	-0.0160	0.2070	-0.0322	0.4155
39	13.26	0.02	0.0523	-0.0015	0.0144	-0.0287	0.2835	0.5177	-0.0161	0.2128	-0.0312	0.4110
40	13.64	0.0	0.0454	-0.0014	0.0159	-0.0262	0.2863	0.5314	-0.0166	0.2178	-0.0312	0.4098
41	13.99	0.02	0.0562	-0.0013	0.0143	-0.0240	0.2549	0.5585	-0.0167	0.2239	-0.0299	0.4009
42	14.33	0.01	0.0524	-0.0010	0.0148	-0.0200	0.2417	0.5691	-0.0163	0.2297	-0.0286	0.4037
43	14.71	0.01	0.0534	-0.0017	0.0165	-0.0286	0.3113	0.6168	-0.0165	0.2367	-0.0268	0.3838
44	15.09	0.03	0.0592	-0.0021	0.0155	-0.0363	0.2623	0.6270	-0.0154	0.2440	-0.0254	0.3892
45	15.45	0.02	0.0601	-0.0021	0.0204	-0.0308	0.2994	0.6707	-0.0149	0.2490	-0.0222	0.3712
46	15.77	0.02	0.0672	-0.0023	0.0220	-0.0342	0.3273	0.6850	-0.0148	0.2572	-0.0217	0.3755

MAIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REF 10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	59	0.92	1.7	0.0	0.21	12	15.400	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM3	CM3	XCMP3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
47	16.11	0.01	0.0652	-0.0020	0.0185	-0.0107	0.2841	0.6864	-0.0149	0.2628	-0.0217	0.3829
48	16.46	0.02	0.0644	-0.0008	0.0208	-0.0132	0.3223	0.7367	-0.0127	0.2691	-0.0173	0.3652
49	16.76	0.02	0.0790	-0.0014	0.0213	-0.0177	0.2699	0.7332	-0.0125	0.2745	-0.0168	0.3694
50	17.14	-0.02	0.0594	-0.0013	0.0228	-0.0219	0.3837	0.7657	-0.0124	0.2818	-0.0163	0.3681
51	17.48	-0.01	0.0750	-0.0009	0.0217	-0.0127	0.2892	0.7824	-0.0113	0.2861	-0.0145	0.3655
52	17.81	-0.01	0.0674	-0.0009	0.0219	-0.0141	0.3243	0.8182	-0.0099	0.2899	-0.0121	0.3544
53	18.14	-0.02	0.0776	-0.0014	0.0237	-0.0180	0.3049	0.8326	-0.0088	0.2920	-0.0106	0.3507
54	18.49	-0.02	0.0796	-0.0008	0.0205	-0.0107	0.2578	0.8409	-0.0078	0.3015	-0.0093	0.3585
55	18.81	-0.02	0.0781	-0.0008	0.0237	-0.0109	0.3038	0.8613	-0.0060	0.3023	-0.0070	0.3510
56	19.16	-0.01	0.0864	-0.0005	0.0228	-0.0058	0.2638	0.8937	-0.0050	0.3085	-0.0056	0.3452
57	19.48	-0.02	0.0745	-0.0001	0.0241	-0.0070	0.3238	0.9124	-0.0033	0.3047	-0.0037	0.3384
58	19.82	-0.01	0.0853	0.0002	0.0259	0.0023	0.3034	0.9265	-0.0035	0.3156	-0.0038	0.3407
59	20.15	-0.02	0.0853	0.0002	0.0259	0.0023	0.3039	0.9374	-0.0030	0.3186	-0.0032	0.3397
60	20.49	-0.01	0.0862	-0.0001	0.0236	-0.0017	0.2741	0.9475	-0.0025	0.3217	-0.0026	0.3395
61	20.83	-0.02	0.0821	-0.0000	0.0255	-0.0006	0.2861	0.9625	-0.0013	0.3260	-0.0014	0.3408
62	21.18	-0.01	0.0726	-0.0001	0.0272	-0.0021	0.3745	0.9892	-0.0009	0.3304	-0.0009	0.3342
63	21.52	-0.02	0.0877	0.0007	0.0276	0.0086	0.3150	1.0116	0.0001	0.3333	0.0001	0.3295
64	21.85	-0.02	0.0914	0.0006	0.0272	0.0071	0.2971	1.0191	0.0012	0.3392	0.0012	0.3318
65	22.19	-0.03	0.0856	0.0007	0.0258	0.0078	0.2694	1.0268	0.0026	0.3401	0.0025	0.3313
66	22.50	-0.02	0.1021	0.0012	0.0279	0.0118	0.2735	1.0575	0.0026	0.3457	0.0025	0.3269
67	22.82	-0.01	0.0976	0.0013	0.0291	0.0138	0.2984	1.0914	0.0026	0.3468	0.0024	0.3177
68	23.11	-0.02	0.1083	0.0013	0.0302	0.0125	0.2787	1.0896	0.0032	0.3540	0.0029	0.3249
69	23.45	-0.02	0.0858	0.0013	0.0297	0.0151	0.3460	1.1014	0.0038	0.3553	0.0034	0.3226
70	23.74	-0.02	0.1043	0.0019	0.0304	0.0182	0.2920	1.1280	0.0053	0.3585	0.0047	0.3178
71	24.09	-0.02	0.1003	0.0019	0.0309	0.0159	0.3083	1.1425	0.0059	0.3636	0.0052	0.3184
72	24.39	-0.04	0.0927	0.0024	0.0324	0.0246	0.3252	1.1506	0.0070	0.3638	0.0061	0.3162
73	24.71	-0.02	0.1077	0.0030	0.0323	0.0274	0.2998	1.1629	0.0084	0.3703	0.0072	0.3184
74	25.04	-0.02	0.1065	0.0030	0.0346	0.0282	0.3248	1.1777	0.0096	0.3735	0.0081	0.3172
75	25.35	-0.03	0.1118	0.0014	0.0311	0.0170	0.2787	1.1788	0.0096	0.3739	0.0081	0.3172
76	25.65	-0.04	0.1106	0.0028	0.0342	0.0253	0.3097	1.1869	0.0117	0.3755	0.0099	0.3164
77	25.97	-0.04	0.1168	0.0034	0.0298	0.0295	0.2553	1.2017	0.0133	0.3763	0.0111	0.3132
78	26.25	-0.03	0.1124	0.0031	0.0311	0.0280	0.2772	1.2053	0.0150	0.3806	0.0124	0.3158
79	26.56	-0.04	0.1169	0.0039	0.0307	0.0334	0.2641	1.2114	0.0173	0.3804	0.0143	0.3140
80	26.84	-0.04	0.1129	0.0039	0.0306	0.0334	0.2622	1.2181	0.0172	0.3820	0.0141	0.3136
81	27.17	-0.04	0.1110	0.0046	0.0327	0.0351	0.2500	1.2404	0.0190	0.3841	0.0154	0.3097
82	27.49	-0.03	0.1355	0.0046	0.0314	0.0339	0.2321	1.2439	0.0209	0.3861	0.0168	0.3104
83	27.80	-0.04	0.1349	0.0044	0.0322	0.0326	0.2391	1.2429	0.0217	0.3858	0.0175	0.3104
84	28.12	-0.04	0.1368	0.0050	0.0308	0.0369	0.2250	1.2723	0.0228	0.3866	0.0179	0.3039
85	28.43	-0.04	0.1355	0.0046	0.0314	0.0339	0.2321	1.2620	0.0271	0.3846	0.0215	0.3048
86	28.74	-0.04	0.1461	0.0053	0.0332	0.0363	0.2271	1.2780	0.0284	0.3827	0.0222	0.2995
87	29.07	-0.04	0.1415	0.0053	0.0343	0.0374	0.2426	1.2750	0.0301	0.3820	0.0236	0.2997
88	29.38	-0.04	0.1461	0.0054	0.0332	0.0370	0.2271	1.2765	0.0328	0.3797	0.0257	0.2975
89	29.72	-0.03	0.1458	0.0057	0.0330	0.0381	0.2262	1.2717	0.0342	0.3815	0.0261	0.3000
90	30.06	-0.08	0.1516	0.0066	0.0367	0.0435	0.2422	1.2744	0.0348	0.3800	0.0273	0.2982
91	30.37	-0.01	0.1509	0.0054	0.0367	0.0358	0.2431	1.2723	0.0352	0.3794	0.0277	0.2982

MANTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	MPTA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.84	0.0	-0.7244	0.1424	0.0595	-0.0133	0.0220	0.3335	-0.1954
2	-2.64	0.03	-0.6514	0.1026	0.2304	-0.0221	0.0310	0.1345	-0.1575
3	-2.03	0.02	-0.4421	0.0401	0.1637	-0.0425	0.0140	0.3442	-0.0906
4	-1.39	0.01	-0.2764	0.0440	0.1126	-0.0944	0.0230	0.3473	-0.1735
5	-0.82	0.03	-0.1763	0.0064	0.2224	-0.0045	0.0230	0.3515	-0.0347
6	-0.28	0.03	-0.0361	0.0064	0.2414	-0.1309	0.0230	0.3551	-0.1417
7	0.26	0.02	0.0719	0.0263	0.1474	-0.0190	0.0180	0.3545	0.3663
8	0.80	0.02	0.1935	0.0281	0.1462	-0.0747	0.0140	0.3570	0.1452
9	1.33	0.02	0.3647	0.0018	0.1761	-0.0545	0.0250	0.3660	0.0044
10	1.87	0.02	0.4315	-0.0042	0.1694	-0.0257	0.0250	0.3621	-0.0214
11	2.36	0.02	0.5952	-0.0544	0.1401	0.0279	0.0210	0.3547	-0.0486
12	2.47	0.01	0.7407	-0.1031	0.1323	-0.0752	0.0240	0.3544	-0.1392
13	3.35	0.01	0.4453	-0.1635	0.1633	0.0044	0.0240	0.3612	-0.1435
14	3.44	0.01	1.0472	-0.2602	0.2347	-0.1220	0.0240	0.3567	-0.2485
15	4.34	0.01	1.2527	-0.3750	0.2225	-0.0745	0.0210	0.3516	-0.2994
16	4.41	0.02	1.3571	-0.4382	0.2637	-0.0942	0.0270	0.3593	-0.3241
17	5.27	0.02	1.5339	-0.6167	0.2606	-0.0294	0.0270	0.3564	-0.4020
18	5.76	0.01	1.6874	-0.7065	0.2299	-0.1468	0.0420	0.3553	-0.4147
19	6.21	-0.03	1.9115	-0.8474	-0.0643	0.0744	0.0280	0.3467	-0.4645
20	6.69	-0.01	1.9416	-0.4945	0.0402	0.0707	0.0320	0.3444	-0.4494
21	7.15	0.03	2.1735	-1.1732	0.3269	-0.0057	0.0310	0.3442	-0.5398
22	7.63	0.01	2.3938	-1.3206	0.2246	-0.0444	0.0300	0.3409	-0.5517
23	8.06	0.02	2.5403	-1.4536	0.1975	-0.1045	0.0240	0.3347	-0.5722
24	8.52	0.03	2.6444	-1.6087	0.1430	0.0014	0.0320	0.3372	-0.5961
25	8.95	-0.03	2.8652	-1.7456	0.0542	-0.0189	0.0360	0.3336	-0.6267
26	9.36	0.0	3.0465	-1.9464	0.1471	0.0001	0.0310	0.3294	-0.6455
27	9.80	-0.02	3.1945	-2.0786	0.1301	0.0009	0.0360	0.3235	-0.6507
28	10.22	-0.01	3.3466	-2.2655	0.1927	-0.0031	0.0270	0.3222	-0.6770
29	10.62	-0.05	3.5171	-2.4533	0.0385	-0.0429	0.0240	0.3152	-0.6985
30	11.04	-0.02	3.6549	-2.5892	0.0345	0.0671	0.0410	0.3132	-0.7084
31	11.46	0.01	3.8241	-2.7231	0.1211	0.0045	0.0350	0.3114	-0.7112
32	11.85	0.02	3.9774	-2.9267	0.1317	-0.0024	0.0350	0.2984	-0.7354
33	12.24	0.0	4.1144	-2.9470	0.0360	-0.0214	0.0410	0.2992	-0.7274
34	12.61	0.02	4.3222	-3.1495	0.1444	0.0258	0.0370	0.2809	-0.7402
35	12.97	0.03	4.4704	-3.3460	0.2183	-0.0136	0.0350	0.2449	-0.7445
36	13.35	0.01	4.6177	-3.4912	0.0951	0.0619	0.0460	0.2843	-0.7560
37	13.76	0.01	4.7825	-3.6869	0.1333	-0.0544	0.0340	0.2403	-0.7709
38	14.04	0.02	4.9647	-3.8475	0.1405	0.1063	0.0360	0.2817	-0.7748
39	14.46	0.01	5.1205	-4.0182	0.1701	-0.0451	0.0450	0.2714	-0.7447
40	14.83	0.02	5.3150	-4.2154	0.1272	0.0519	0.0400	0.2647	-0.7431
41	15.20	0.02	5.4812	-4.3891	0.1516	-0.0132	0.0340	0.2637	-0.4008
42	15.51	-0.01	5.5706	-4.5562	0.0968	-0.0295	0.0390	0.2623	-0.8179
43	15.90	0.0	5.6954	-4.6539	0.1415	-0.0321	0.0410	0.2516	-0.8171
44	16.26	0.0	5.9599	-4.4423	0.1352	0.0147	0.0410	0.2446	-0.8209
45	16.61	-0.02	6.0223	-5.0437	0.0327	0.0242	0.0390	0.2433	-0.8375
46	16.95	-0.01	6.2614	-5.2260	0.0504	0.1054	0.0350	0.2337	-0.8346

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		NX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		60 0.9/ 1.7				0.0	M2.1	12 15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP				
47	17.25	0.0	6.3263	-5.4672	0.1397	0.0124	0.0330	0.2298	-0.4561				
48	17.61	0.0	6.5610	-5.6659	0.0337	0.0748	0.0390	0.2193	-0.4436				
49	17.95	-0.01	6.7227	-5.8823	0.0342	0.0981	0.0320	0.2199	-0.4750				
50	18.27	0.01	6.9155	-6.0712	0.1480	0.0508	0.0280	0.2145	-0.4779				
51	18.63	-0.02	7.0244	-6.2036	0.0350	-0.0060	0.0180	0.2029	-0.4837				
52	18.95	0.02	7.1506	-6.3857	0.0358	0.1919	-0.0200	0.1984	-0.4923				
53	19.26	-0.01	7.1826	-6.4701	0.0119	0.1743	-0.0300	0.1914	-0.4908				
54	19.63	-0.01	7.4360	-6.7309	0.0193	0.1970	-0.0340	0.1867	-0.4952				
55	19.96	0.0	7.6401	-6.9056	0.1054	0.1104	-0.0250	0.1834	-0.4939				
56	20.29	-0.03	7.7314	-7.0074	-0.0967	0.1724	-0.0270	0.1715	-0.4964				
57	20.63	0.0	7.8344	-7.1472	0.0679	0.2529	-0.0330	0.1691	-0.4918				
58	20.96	-0.02	7.8357	-7.0974	0.0131	0.2316	-0.0270	0.1596	-0.4958				
59	21.31	-0.03	8.0444	-7.3127	0.0031	0.2256	-0.0300	0.1644	-0.4990				
60	21.66	-0.01	8.2191	-7.4693	0.1301	0.0898	0.0040	0.1406	-0.4988				
61	22.01	-0.02	8.4550	-7.6215	0.0077	0.0719	-0.0120	0.1431	-0.4914				
62	22.33	-0.01	8.5130	-7.6987	0.0430	0.0738	-0.0260	0.1434	-0.4944				
63	22.65	0.0	8.6678	-7.8024	0.1517	0.0886	-0.0250	0.1343	-0.4902				
64	22.96	-0.02	8.7509	-7.8440	-0.0023	0.1647	-0.0270	0.1337	-0.4955				
65	23.24	-0.01	8.7749	-7.9424	0.0439	0.0675	-0.0510	0.1247	-0.4951				
66	23.61	-0.04	8.9939	-8.0721	-0.0289	0.1374	-0.0440	0.1199	-0.4970				
67	23.92	-0.03	9.1644	-8.0934	0.0226	0.2533	-0.0410	0.1170	-0.4832				
68	24.24	-0.02	9.2748	-8.2393	0.0711	0.1104	-0.0560	0.1095	-0.4884				
69	24.57	-0.04	9.3737	-8.2952	-0.0145	0.2673	-0.0560	0.1064	-0.4844				
70	24.87	-0.02	9.4454	-8.4321	-0.0693	0.2870	-0.0500	0.0994	-0.4880				
71	25.23	-0.03	9.6435	-8.4506	0.0512	0.0353	-0.0530	0.0948	-0.4763				
72	25.55	-0.05	9.9205	-8.4854	-0.0406	0.1588	-0.0780	0.1040	-0.4873				
73	25.86	-0.06	9.9504	-8.5223	-0.0989	0.1774	-0.0530	0.0839	-0.4556				
74	26.19	-0.02	10.1115	-8.5508	0.0556	0.1951	-0.0630	0.0897	-0.4457				
75	26.46	-0.05	10.2035	-8.5866	-0.1803	0.3814	-0.0660	0.0855	-0.4415				
76	26.81	-0.05	10.3545	-8.5987	-0.0740	0.3706	-0.0590	0.0918	-0.4291				
77	27.08	-0.02	10.5019	-8.6295	0.0325	0.3695	-0.0810	0.0915	-0.4217				
78	27.43	-0.04	10.7242	-8.6588	-0.1986	0.5730	-0.0770	0.0802	-0.7981				
79	27.76	-0.05	10.9079	-8.6789	-0.1641	0.3477	-0.0840	0.0765	-0.7810				
80	28.05	-0.04	10.9103	-8.6512	-0.1133	0.2566	-0.0780	0.0618	-0.7929				
81	28.30	-0.04	11.0597	-8.6134	-0.1057	0.3449	-0.1020	0.0618	-0.7788				
82	28.56	-0.04	11.1699	-8.6478	-0.1939	0.5364	-0.1100	0.0557	-0.7742				
83	28.98	-0.02	11.3257	-8.6299	0.0551	0.2358	-0.1310	0.0543	-0.7620				
84	29.29	-0.02	11.4778	-8.6529	0.0109	0.3187	-0.1150	0.0527	-0.7539				
85	29.63	-0.02	11.6620	-8.7447	0.0319	0.2773	-0.1340	0.0406	-0.7499				
86	29.95	-0.03	11.8179	-8.7200	-0.0696	0.3224	-0.1340	0.0347	-0.7379				
87	30.31	-0.02	12.1043	-8.6397	-0.0181	0.3923	-0.1460	0.0428	-0.7135				
88	30.62	-0.02	12.1453	-8.6815	-0.0107	0.3809	-0.1760	0.0257	-0.7119				

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	60	0.97	1.7	0.0	02W1F12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	-2.44	0.0	0.0347	-0.0009	-0.0034	-0.0259	-0.1106	-0.0388	0.0031	-0.0332	-0.0812	0.8564
2	-2.68	0.03	0.0410	-0.0010	-0.0021	-0.0256	-0.0527	-0.0296	0.0025	-0.0303	-0.0861	1.0224
3	-2.83	0.02	0.0429	-0.0008	-0.0029	-0.0186	-0.0677	-0.0137	0.0008	-0.0214	-0.0644	1.6211
4	-1.39	0.01	0.0391	-0.0006	-0.0032	-0.0143	-0.0811	-0.0041	0.0003	-0.0179	-0.0732	4.3576
5	-0.82	0.03	0.0421	-0.0005	-0.0036	-0.0119	-0.0844	0.0032	0.0002	-0.0133	0.0625	-4.1668
6	-0.28	0.03	0.0435	-0.0003	-0.0028	-0.0099	-0.0718	0.0110	0.0003	-0.0107	0.0273	-0.9759
7	0.28	0.02	0.0423	-0.0003	-0.0036	-0.0083	-0.0452	0.0169	0.0007	-0.0090	0.0397	-0.4763
8	0.80	0.02	0.0407	-0.0003	-0.0020	-0.0086	-0.0501	0.0227	0.0011	-0.0053	0.0518	-0.2389
9	1.33	0.02	0.0423	-0.0002	-0.0024	-0.0059	-0.0569	0.0287	0.0012	-0.0030	0.0418	-0.1058
10	1.87	0.02	0.0410	-0.0001	-0.0020	-0.0037	-0.0437	0.0377	0.0010	0.0009	0.0265	0.0229
11	2.36	0.02	0.0425	0.0	-0.0013	0.0	-0.0315	0.0464	0.0002	0.0064	0.0043	0.1371
12	2.87	0.01	0.0423	-0.0001	-0.0015	-0.0035	-0.0356	0.0626	-0.0002	0.0097	-0.0032	0.1543
13	3.35	0.01	0.0424	0.0	-0.0004	0.0	-0.0088	0.0714	-0.0010	0.0153	-0.0147	0.2142
14	3.86	0.01	0.0435	-0.0002	-0.0007	-0.0046	-0.0162	0.0939	-0.0022	0.0276	-0.0240	0.2406
15	4.34	0.01	0.0451	-0.0001	-0.0010	-0.0022	-0.0216	0.1067	-0.0032	0.0292	-0.0305	0.2767
16	4.81	0.02	0.0489	-0.0002	0.0001	-0.0041	0.0019	0.1235	-0.0043	0.0368	-0.0352	0.2984
17	5.27	0.02	0.0490	-0.0002	-0.0014	-0.0051	-0.0280	0.1433	-0.0050	0.0433	-0.0352	0.3025
18	5.76	0.01	0.0488	-0.0002	0.0001	-0.0051	-0.0012	0.1674	-0.0063	0.0535	-0.0391	0.3295
19	6.21	-0.03	0.0452	-0.0001	-0.0025	-0.0033	-0.0562	0.1792	-0.0073	0.0614	-0.0410	0.3427
20	6.69	-0.01	0.0478	-0.0002	-0.0019	-0.0042	-0.0392	0.1921	-0.0081	0.0673	-0.0422	0.3504
21	7.15	0.03	0.0407	-0.0003	-0.0013	-0.0074	-0.0329	0.2153	-0.0093	0.0780	-0.0432	0.3625
22	7.63	0.01	0.0447	-0.0003	-0.0011	-0.0078	-0.0247	0.2321	-0.0099	0.0857	-0.0426	0.3694
23	8.06	0.02	0.0477	-0.0002	-0.0019	-0.0052	-0.0400	0.2463	-0.0100	0.0919	-0.0408	0.3730
24	8.52	0.03	0.0408	-0.0003	-0.0020	-0.0074	-0.0491	0.2658	-0.0105	0.1001	-0.0395	0.3765
25	8.95	-0.03	0.0372	-0.0004	-0.0018	-0.0115	-0.0464	0.2906	-0.0111	0.1092	-0.0382	0.3759
26	9.36	0.0	0.0490	-0.0005	-0.0011	-0.0125	-0.0282	0.3171	-0.0115	0.1177	-0.0364	0.3710
27	9.80	-0.02	0.0390	-0.0004	-0.0002	-0.0115	-0.0042	0.3312	-0.0116	0.1243	-0.0350	0.3752
28	10.22	-0.01	0.0419	-0.0003	-0.0002	-0.0072	-0.0057	0.3519	-0.0120	0.1334	-0.0341	0.3790
29	10.62	-0.05	0.0394	-0.0003	-0.0004	-0.0076	-0.0230	0.3695	-0.0127	0.1391	-0.0344	0.3765
30	11.04	-0.02	0.0352	-0.0002	-0.0007	-0.0071	-0.0191	0.3845	-0.0126	0.1470	-0.0329	0.3824
31	11.46	0.01	0.0395	0.0	0.0005	0.0	-0.0117	0.4061	-0.0134	0.1522	-0.0331	0.3748
32	11.85	0.02	0.0345	0.0	0.0002	0.0	0.0065	0.4231	-0.0140	0.1592	-0.0332	0.3762
33	12.24	0.0	0.0401	-0.0003	0.0003	0.0075	0.0065	0.4363	-0.0152	0.1647	-0.0348	0.3774
34	12.61	0.02	0.0308	0.0004	-0.0000	0.0146	-0.0012	0.4532	-0.0159	0.1722	-0.0351	0.3800
35	12.97	0.03	0.0311	0.0005	-0.0017	0.0161	-0.0559	0.4582	-0.0161	0.1760	-0.0344	0.3759
36	13.35	0.01	0.0270	0.0005	-0.0013	0.0204	-0.0483	0.4862	-0.0165	0.1793	-0.0339	0.3688
37	13.70	0.01	0.0315	0.0008	-0.0004	0.0270	-0.0128	0.5033	-0.0177	0.1864	-0.0352	0.3704
38	14.09	0.02	0.0317	0.0010	-0.0004	0.0315	-0.0136	0.5177	-0.0187	0.1937	-0.0361	0.3742
39	14.48	0.01	0.0294	0.0009	-0.0015	0.0307	-0.1207	0.5355	-0.0184	0.1967	-0.0343	0.3674
40	14.83	0.02	0.0295	0.0010	-0.0016	0.0356	-0.1710	0.5559	-0.0186	0.2029	-0.0335	0.3650
41	15.20	0.02	0.0293	0.0009	-0.0014	0.0324	-0.1173	0.5720	-0.0193	0.2079	-0.0337	0.3635
42	15.51	-0.01	0.0172	0.0011	-0.0033	0.0639	-0.1900	0.5857	-0.0186	0.2140	-0.0318	0.3647
43	15.90	0.0	0.0185	0.0009	-0.0041	0.0513	-0.2215	0.6007	-0.0182	0.2178	-0.0320	0.3625
44	16.26	0.0	0.0185	0.0005	-0.0055	0.0703	-0.3335	0.6206	-0.0189	0.2240	-0.0304	0.3609
45	16.61	-0.02	0.0044	0.0003	-0.0081	0.0357	-0.9644	0.6414	-0.0182	0.2310	-0.0284	0.3602
46	16.95	-0.01	0.0117	0.0	-0.0061	0.0	-0.5215	0.6615	-0.0173	0.2361	-0.0261	0.3569

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	60	0.97	1.7	0.0	0.2112	15.400	0	0	0	0	FIXED	
POINT	ALPHA	MFTA	CNF1	CM1	CM2	YCPF1	YCPF2	CNP2	CM2	CM3	XCNP2	YCNP2
47	17.29	0.0	0.0075	-0.0002	-0.0088	-0.0333	-1.1735	0.6801	-0.0167	0.2421	-0.0245	0.3560
48	17.61	0.0	0.0068	-0.0005	-0.0063	-0.0735	-0.9315	0.7084	-0.0156	0.2499	-0.0221	0.3528
49	17.95	-0.01	-0.0004	-0.0002	-0.0103	0.4999	25.8332	0.7294	-0.0148	0.2541	-0.0204	0.3684
50	18.27	0.01	-0.0020	-0.0010	-0.0093	0.5749	4.6332	0.7541	-0.0140	0.2625	-0.0186	0.3681
51	18.63	-0.02	-0.0055	-0.0008	-0.0106	0.1454	1.4337	0.7662	-0.0130	0.2655	-0.0170	0.1465
52	18.95	0.02	-0.0141	-0.0003	-0.0135	0.0713	0.9573	0.7909	-0.0127	0.2726	-0.0161	0.3447
53	19.26	-0.01	-0.0265	-0.0006	-0.0170	0.0245	0.6626	0.7976	-0.0119	0.2743	-0.0150	0.3439
54	19.63	-0.01	-0.0147	0.0	-0.0164	0.0	0.9001	0.8235	-0.0120	0.2745	-0.0146	0.3394
55	19.96	0.0	-0.0235	-0.0006	-0.0187	0.0255	0.7970	0.8478	-0.0107	0.2843	-0.0127	0.3353
56	20.29	-0.03	-0.0311	-0.0002	-0.0197	0.0080	0.6323	0.8705	-0.0089	0.2903	-0.0103	0.3334
57	20.63	0.0	-0.0353	-0.0004	-0.0215	0.0127	0.6080	0.8832	-0.0087	0.2934	-0.0099	0.3322
58	20.96	-0.02	-0.0431	-0.0003	-0.0247	0.0081	0.5722	0.8877	-0.0084	0.2950	-0.0095	0.3323
59	21.31	-0.03	-0.0410	-0.0006	-0.0239	0.0159	0.5820	0.9121	-0.0083	0.3004	-0.0091	0.3294
60	21.66	-0.01	-0.0374	-0.0011	-0.0216	0.0291	0.5713	0.9460	-0.0085	0.3099	-0.0088	0.3276
61	22.01	-0.02	-0.0363	-0.0011	-0.0222	0.0303	0.6115	0.9716	-0.0038	0.3133	-0.0039	0.3224
62	22.33	-0.01	-0.0335	-0.0011	-0.0230	0.0343	0.5855	0.9809	-0.0038	0.3187	-0.0039	0.3249
63	22.65	0.0	-0.0400	-0.0015	-0.0245	0.0306	0.5026	1.0029	-0.0019	0.3210	-0.0019	0.3201
64	22.96	-0.02	-0.0549	-0.0012	-0.0284	0.0219	0.5208	1.0114	-0.0018	0.3238	-0.0018	0.3202
65	23.24	-0.01	-0.0504	-0.0009	-0.0272	0.0179	0.5346	1.0149	-0.0008	0.3251	-0.0008	0.3203
66	23.61	-0.04	-0.0421	-0.0014	-0.0233	0.0344	0.5541	1.0284	-0.0008	0.3262	-0.0008	0.3177
67	23.92	-0.03	-0.0535	-0.0019	-0.0267	0.0355	0.4946	1.0415	-0.0001	0.3308	-0.0001	0.3177
68	24.24	-0.02	-0.0539	-0.0020	-0.0317	0.0334	0.5285	1.0582	0.0010	0.3343	0.0010	0.3159
69	24.57	-0.05	-0.0548	-0.0011	-0.0241	0.0210	0.5303	1.0683	0.0027	0.3349	0.0026	0.3135
70	24.91	-0.02	-0.0554	-0.0016	-0.0304	0.0249	0.5570	1.0835	0.0033	0.3393	0.0031	0.3132
71	25.23	-0.03	-0.0526	-0.0013	-0.0269	0.0247	0.5119	1.1000	0.0044	0.3409	0.0040	0.3099
72	25.55	-0.05	-0.0671	-0.0023	-0.0346	0.0350	0.5150	1.1086	0.0042	0.3475	0.0038	0.3090
73	25.86	-0.06	-0.0555	-0.0015	-0.0284	0.0279	0.5116	1.1117	0.0053	0.3474	0.0048	0.3080
74	26.19	-0.02	-0.0752	-0.0037	-0.0311	0.0499	0.4130	1.1229	0.0059	0.3460	0.0053	0.3081
75	26.46	-0.05	-0.0786	-0.0043	-0.0328	0.0553	0.4172	1.1270	0.0070	0.3479	0.0062	0.3087
76	26.81	-0.05	-0.0760	-0.0066	-0.0268	0.0875	0.3530	1.1375	0.0070	0.3487	0.0062	0.3061
77	27.08	-0.02	-0.0943	-0.0068	-0.0355	0.0726	0.3767	1.1531	0.0087	0.3516	0.0076	0.3049
78	27.43	-0.04	-0.0909	-0.0087	-0.0305	0.0962	0.3354	1.1555	0.0096	0.3493	0.0083	0.3023
79	27.76	-0.05	-0.0788	-0.0093	-0.0257	0.1186	0.3256	1.1678	0.0106	0.3516	0.0091	0.3011
80	28.05	-0.04	-0.0870	-0.0093	-0.0261	0.1075	0.2949	1.1685	0.0112	0.3521	0.0096	0.3013
81	28.38	-0.04	-0.0847	-0.0090	-0.0302	0.1020	0.3400	1.1873	0.0139	0.3555	0.0117	0.2994
82	28.66	-0.04	-0.0970	-0.0087	-0.0354	0.0897	0.3652	1.2000	0.0150	0.3577	0.0125	0.2981
83	28.98	-0.02	-0.0917	-0.0070	-0.0356	0.0763	0.3888	1.2152	0.0174	0.3604	0.0144	0.2966
84	29.29	-0.02	-0.0848	-0.0082	-0.0290	0.0967	0.3415	1.2213	0.0173	0.3610	0.0142	0.2956
85	29.63	-0.02	-0.0913	-0.0052	-0.0369	0.0569	0.4044	1.2405	0.0207	0.3622	0.0163	0.2919
86	29.95	-0.03	-0.0858	-0.0051	-0.0337	0.0594	0.3927	1.2532	0.0217	0.3645	0.0173	0.2908
87	30.31	-0.02	-0.0882	-0.0032	-0.0349	0.0363	0.3956	1.2762	0.0229	0.3702	0.0179	0.2901
88	30.62	-0.02	-0.0958	-0.0085	-0.0300	0.0892	0.3134	1.2797	0.0214	0.3711	0.0167	0.2900

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RXIU-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	60	0.97	1.7	0.0	B2W1F12	15.400	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CH4	XCPF4	YCPF4
1	-2.84	0.0	0.0360	0.0016	-0.0007	0.0444	-0.0196	-0.1069	-0.0000	-0.0015	0.0005	0.0142
2	-2.68	0.03	0.0236	0.0015	0.0029	0.0635	0.1171	-0.1078	-0.0003	0.0019	0.0032	-0.0174
3	-2.03	0.02	0.0237	0.0016	0.0027	0.0675	0.1138	-0.0971	-0.0015	0.0048	0.0178	-0.1008
4	-1.39	0.01	0.0236	0.0014	0.0028	0.0593	0.1171	-0.0689	-0.0016	0.0099	0.0232	-0.1443
5	-0.82	0.03	0.0358	0.0013	-0.0007	0.0363	-0.0187	-0.0624	-0.0013	0.0132	0.0208	-0.2117
6	-0.28	0.03	0.0235	0.0013	0.0028	0.0553	0.1204	-0.0558	-0.0009	0.0157	0.0161	-0.2815
7	0.26	0.02	0.0235	0.0013	0.0028	0.0553	0.1204	-0.0546	-0.0005	0.0184	0.0088	-0.3258
8	0.80	0.02	0.0246	0.0010	0.0015	0.0284	0.0442	-0.0537	-0.0005	0.0220	0.0093	-0.4098
9	1.33	0.02	0.0234	0.0009	0.0028	0.0385	0.1195	-0.0397	-0.0006	0.0263	0.0164	-0.6617
10	1.87	0.02	0.0275	0.0010	0.0017	0.0364	0.0605	-0.0378	-0.0016	0.0295	0.0503	-0.8985
11	2.36	0.02	0.0308	0.0009	0.0020	0.0292	0.0637	-0.0151	-0.0027	0.0347	0.1821	-2.2959
12	2.87	0.01	0.0234	0.0009	0.0028	0.0385	0.1195	0.0066	-0.0038	0.0388	-0.5832	5.8787
13	3.35	0.01	0.0303	0.0005	0.0027	0.0165	0.0890	0.0011	-0.0050	0.0474	-4.5901	43.0605
14	3.86	0.01	0.0333	0.0005	0.0037	0.0150	0.1110	0.0293	-0.0066	0.0560	-0.2252	1.9100
15	4.34	0.01	0.0319	0.0	0.0060	0.0	0.1890	0.0505	-0.0076	0.0621	-0.1505	1.2302
16	4.81	0.02	0.0318	-0.0003	0.0060	-0.0094	0.1886	0.0761	-0.0093	0.0664	-0.1222	0.8733
17	5.27	0.02	0.0303	-0.0004	0.0084	-0.0132	0.2936	0.0961	-0.0101	0.0773	-0.1056	0.8046
18	5.76	0.01	0.0301	-0.0008	0.0084	-0.0266	0.2967	0.1171	-0.0115	0.0847	-0.0986	0.7235
19	6.21	-0.03	0.0313	-0.0006	0.0067	-0.0192	0.2150	0.1337	-0.0127	0.0947	-0.0950	0.7087
20	6.69	-0.01	0.0189	-0.0010	0.0102	-0.0555	0.5396	0.1593	-0.0134	0.0977	-0.0841	0.6132
21	7.15	0.03	0.0338	-0.0009	0.0086	-0.0266	0.2533	0.1868	-0.0146	0.1090	-0.0784	0.5838
22	7.63	0.01	0.0313	-0.0014	0.0130	-0.0447	0.4163	0.1999	-0.0156	0.1180	-0.0783	0.5903
23	8.06	0.02	0.0313	-0.0014	0.0130	-0.0447	0.4163	0.2247	-0.0155	0.1237	-0.0692	0.5504
24	8.52	0.03	0.0313	-0.0014	0.0130	-0.0447	0.4163	0.2414	-0.0159	0.1323	-0.0661	0.5482
25	8.95	-0.03	0.0425	-0.0014	0.0117	-0.0329	0.2744	0.2766	-0.0159	0.1413	-0.0576	0.5107
26	9.36	0.0	0.0424	-0.0016	0.0117	-0.0377	0.2766	0.2975	-0.0165	0.1481	-0.0556	0.4979
27	9.80	-0.02	0.0383	-0.0016	0.0129	-0.0418	0.3358	0.3257	-0.0165	0.1544	-0.0506	0.4772
28	10.22	-0.01	0.0371	-0.0019	0.0151	-0.0512	0.4040	0.3538	-0.0166	0.1633	-0.0469	0.4615
29	10.62	-0.05	0.0401	-0.0020	0.0161	-0.0492	0.4005	0.3750	-0.0171	0.1703	-0.0456	0.4540
30	11.04	-0.02	0.0335	-0.0026	0.0157	-0.0598	0.3608	0.4031	-0.0178	0.1773	-0.0441	0.4399
31	11.46	0.01	0.0507	-0.0023	0.0156	-0.0454	0.3076	0.4247	-0.0183	0.1814	-0.0431	0.4271
32	11.85	0.02	0.0449	-0.0026	0.0150	-0.0542	0.3423	0.4373	-0.0179	0.1911	-0.0410	0.4370
33	12.24	0.0	0.0434	-0.0029	0.0158	-0.0688	0.3632	0.4586	-0.0181	0.1959	-0.0396	0.4272
34	12.61	0.02	0.0455	-0.0028	0.0205	-0.0571	0.4447	0.4903	-0.0187	0.2048	-0.0382	0.4176
35	12.97	0.03	0.0445	-0.0026	0.0178	-0.0525	0.3595	0.5163	-0.0186	0.2064	-0.0360	0.3998
36	13.35	0.01	0.0383	-0.0028	0.0191	-0.0674	0.4977	0.5190	-0.0197	0.2129	-0.0379	0.4103
37	13.70	0.01	0.0504	-0.0032	0.0226	-0.0666	0.4485	0.5443	-0.0198	0.2202	-0.0362	0.4023
38	14.09	0.02	0.0546	-0.0029	0.0214	-0.0540	0.3918	0.5756	-0.0199	0.2282	-0.0346	0.3944
39	14.46	0.01	0.0546	-0.0029	0.0214	-0.0540	0.3918	0.5900	-0.0203	0.2312	-0.0345	0.3918
40	14.83	0.02	0.0457	-0.0015	0.0250	-0.0339	0.5477	0.6138	-0.0203	0.2397	-0.0331	0.3906
41	15.20	0.02	0.0567	-0.0029	0.0238	-0.0520	0.4196	0.6358	-0.0210	0.2424	-0.0331	0.3813
42	15.51	-0.01	0.0581	-0.0032	0.0246	-0.0579	0.4384	0.6486	-0.0208	0.2472	-0.0321	0.3812
43	15.90	0.0	0.0550	-0.0034	0.0267	-0.0627	0.4859	0.6625	-0.0207	0.2543	-0.0313	0.3839
44	16.26	0.0	0.0676	-0.0034	0.0294	-0.0503	0.4353	0.6943	-0.0203	0.2616	-0.0293	0.3771
45	16.61	-0.02	0.0775	-0.0032	0.0242	-0.0613	0.3126	0.7094	-0.0204	0.2666	-0.0286	0.3758
46	16.95	-0.01	0.0842	-0.0034	0.0266	-0.0641	0.3838	0.7309	-0.0193	0.2693	-0.0265	0.3685

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RR10-6	PM1	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.9/1.7		0.0	H2M1F12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	META	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
47	17.29	0.0	0.0679	-0.0029	0.0294	-0.0427	0.4334	0.7514	-0.0187	0.2775	-0.0249	0.3693
48	17.61	0.0	0.0691	-0.0029	0.0272	-0.0420	0.3440	0.7806	-0.0180	0.2814	-0.0231	0.3605
49	17.95	-0.01	0.0742	-0.0028	0.0282	-0.0353	0.3559	0.8022	-0.0175	0.2878	-0.0218	0.3588
50	18.27	0.01	0.0778	-0.0027	0.0312	-0.0353	0.4013	0.8349	-0.0166	0.2956	-0.0199	0.3541
51	18.63	-0.02	0.0753	-0.0024	0.0294	-0.0325	0.3403	0.8455	-0.0152	0.2969	-0.0180	0.3512
52	18.95	0.02	0.0718	-0.0026	0.0290	-0.0390	0.4042	0.8872	-0.0143	0.3062	-0.0161	0.3452
53	19.26	-0.01	0.0861	-0.0034	0.0242	-0.0395	0.3274	0.9011	-0.0142	0.3113	-0.0158	0.3454
54	19.63	-0.01	0.0842	-0.0024	0.0313	-0.0323	0.3548	0.9146	-0.0137	0.3158	-0.0149	0.3438
55	19.96	0.0	0.0878	-0.0027	0.0321	-0.0313	0.3651	0.9436	-0.0123	0.3193	-0.0130	0.3384
56	20.29	-0.03	0.0842	-0.0017	0.0320	-0.0193	0.3627	0.9542	-0.0113	0.3208	-0.0118	0.3361
57	20.63	0.0	0.1021	-0.0017	0.0324	-0.0156	0.3175	0.9647	-0.0110	0.3264	-0.0114	0.3383
58	20.96	-0.02	0.0848	-0.0014	0.0313	-0.0158	0.3524	0.9656	-0.0111	0.3259	-0.0115	0.3375
59	21.31	-0.03	0.0854	-0.0008	0.0317	-0.0094	0.3707	0.9843	-0.0103	0.3309	-0.0105	0.3362
60	21.66	-0.01	0.0900	-0.0002	0.0366	-0.0078	0.4065	1.0051	-0.0080	0.3327	-0.0080	0.3310
61	22.01	-0.02	0.0893	0.0003	0.0374	0.0034	0.4250	1.0274	-0.0059	0.3376	-0.0057	0.3286
62	22.33	-0.01	0.0940	0.0003	0.0372	0.0031	0.3802	1.0309	-0.0057	0.3407	-0.0055	0.3305
63	22.65	0.0	0.0965	0.0008	0.0377	0.0083	0.3912	1.0660	-0.0043	0.3426	-0.0040	0.3214
64	22.96	-0.02	0.0876	0.0008	0.0347	0.0097	0.3960	1.0659	-0.0043	0.3461	-0.0041	0.3247
65	23.24	-0.01	0.0945	0.0012	0.0376	0.0124	0.3902	1.0786	-0.0034	0.3471	-0.0036	0.3218
66	23.61	-0.04	0.0992	0.0012	0.0344	0.0126	0.3977	1.1119	-0.0025	0.3515	-0.0023	0.3161
67	23.92	-0.03	0.0936	0.0004	0.0368	0.0085	0.3930	1.1224	-0.0022	0.3594	-0.0020	0.3201
68	24.24	-0.02	0.1065	0.0013	0.0394	0.0127	0.3648	1.1410	-0.0022	0.3641	-0.0020	0.3191
69	24.57	-0.04	0.1049	0.0018	0.0361	0.0176	0.3447	1.1528	-0.0021	0.3636	-0.0019	0.3154
70	24.87	-0.02	0.0943	0.0019	0.0400	0.0146	0.4027	1.1567	-0.0006	0.3705	-0.0006	0.3203
71	25.23	-0.03	0.1044	0.0022	0.0365	0.0208	0.3369	1.1774	0.0003	0.3694	0.0003	0.3138
72	25.55	-0.05	0.1145	0.0030	0.0380	0.0253	0.3206	1.1953	0.0004	0.3748	0.0003	0.3136
73	25.86	-0.06	0.1191	0.0022	0.0358	0.0189	0.3005	1.1929	0.0010	0.3726	0.0009	0.3123
74	26.19	-0.02	0.1112	0.0027	0.0381	0.0243	0.3431	1.2120	0.0023	0.3745	0.0019	0.3123
75	26.46	-0.04	0.1131	0.0022	0.0337	0.0199	0.2978	1.2058	0.0014	0.3788	0.0012	0.3141
76	26.81	-0.05	0.1130	0.0022	0.0337	0.0149	0.2987	1.2481	0.0044	0.3814	0.0036	0.3056
77	27.08	-0.02	0.1245	0.0037	0.0391	0.0301	0.3134	1.2418	0.0039	0.3839	0.0031	0.3091
78	27.43	-0.04	0.1305	0.0030	0.0349	0.0220	0.2556	1.2437	0.0074	0.3853	0.0060	0.3098
79	27.76	-0.05	0.1375	0.0033	0.0360	0.0249	0.2721	1.2503	0.0090	0.3872	0.0072	0.3097
80	28.05	-0.04	0.1305	0.0037	0.0356	0.0271	0.2607	1.2547	0.0111	0.3871	0.0088	0.3087
81	28.38	-0.04	0.1310	0.0033	0.0320	0.0257	0.2447	1.2713	0.0111	0.3872	0.0088	0.3044
82	28.66	-0.04	0.1439	0.0040	0.0347	0.0281	0.2415	1.2861	0.0126	0.3876	0.0098	0.3014
83	28.98	-0.02	0.1502	0.0054	0.0374	0.0359	0.2493	1.2942	0.0137	0.3920	0.0102	0.3029
84	29.29	-0.02	0.1408	0.0044	0.0344	0.0316	0.2444	1.3000	0.0149	0.3923	0.0115	0.3018
85	29.63	-0.02	0.1554	0.0054	0.0394	0.0346	0.2530	1.3097	0.0156	0.3932	0.0119	0.3004
86	29.95	-0.03	0.1453	0.0049	0.0316	0.0341	0.2176	1.3120	0.0182	0.3920	0.0139	0.2988
87	30.31	-0.02	0.1441	0.0053	0.0333	0.0361	0.2252	1.3195	0.0170	0.3945	0.0129	0.2990
88	30.62	-0.02	0.1564	0.0051	0.0371	0.0326	0.2373	1.3248	0.0219	0.3922	0.0165	0.2961

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	FX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	61	1.01	1.7	0.0	B2W1P12	15.400	0	0	0	0	FIXED
POINT	ALPHA	MFTA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.84	0.02	-0.6603	0.0776	0.1234	-0.0183	0.0250	0.3766	-0.1084		
2	-2.82	0.03	-0.6284	0.0429	0.1305	0.0263	0.0210	0.3855	-0.0683		
3	-2.04	0.04	-0.4880	0.0203	0.2137	0.0618	0.0300	0.3926	-0.0417		
4	-1.34	0.01	-0.2993	0.0020	0.1186	-0.0640	0.0250	0.3882	-0.0067		
5	-0.81	0.02	-0.1672	0.0011	0.0494	0.0048	0.0260	0.3954	-0.0065		
6	-0.29	0.03	-0.0330	0.0022	0.1695	0.0007	0.0270	0.4007	-0.0667		
7	0.29	0.02	0.1165	0.0299	0.0437	-0.0232	0.0270	0.4020	0.2567		
8	0.82	0.03	0.2352	0.0347	0.1465	0.0029	0.0170	0.4002	0.1689		
9	1.36	0.02	0.3764	0.0772	0.0674	0.0076	0.0240	0.4026	0.2041		
10	1.89	0.06	0.4874	0.0615	0.2354	-0.0226	0.0270	0.4047	0.1762		
11	2.41	0.03	0.6592	0.0200	0.0515	-0.0141	0.0250	0.4067	0.0303		
12	2.90	0.03	0.4025	0.0004	0.1276	-0.1296	0.0250	0.4051	0.0004		
13	3.40	0.04	0.9195	-0.0074	0.1475	-0.0145	0.0280	0.4032	-0.0951		
14	3.87	0.04	1.0496	-0.1376	0.1482	-0.0415	0.0340	0.4004	-0.1311		
15	4.36	0.06	1.2270	-0.2590	0.2247	0.0224	0.0350	0.3914	-0.2111		
16	4.83	0.01	1.4117	-0.3686	0.1761	-0.0085	0.0240	0.3933	-0.2611		
17	5.30	0.06	1.5430	-0.5254	0.2229	0.0849	0.0350	0.3885	-0.3298		
18	5.79	0.03	1.7377	-0.6180	0.1934	-0.0618	0.0280	0.3942	-0.3556		
19	6.24	-0.01	1.9164	-0.7653	0.1040	-0.0746	0.0370	0.3962	-0.3952		
20	6.72	0.02	2.0722	-0.8244	0.1972	-0.1591	0.0350	0.4033	-0.4057		
21	7.18	0.08	2.1944	-0.9725	0.1677	0.0062	0.0260	0.4017	-0.4431		
22	7.66	0.02	2.3775	-1.1408	0.0717	0.0106	0.0280	0.4010	-0.4798		
23	8.08	-0.01	2.5115	-1.2734	0.1215	-0.0601	0.0350	0.3964	-0.5070		
24	8.53	-0.06	2.7045	-1.3897	0.0160	-0.0364	0.0360	0.3874	-0.5129		
25	8.98	0.01	2.7862	-1.5470	0.1122	0.0249	0.0290	0.3763	-0.5552		
26	9.39	-0.03	3.0106	-1.7782	0.1792	-0.0249	0.0350	0.3679	-0.5906		
27	9.81	0.03	3.1562	-2.0260	0.0467	-0.0424	0.0420	0.3488	-0.6413		
28	10.24	0.08	3.3333	-2.1599	0.0605	-0.0607	0.0400	0.3470	-0.6480		
29	10.66	0.07	3.4992	-2.2913	0.1543	-0.0030	0.0420	0.3466	-0.6548		
30	11.07	0.08	3.6516	-2.4446	0.1013	-0.0468	0.0340	0.3552	-0.6708		
31	11.48	0.02	3.7652	-2.5636	0.0882	-0.0225	0.0160	0.3619	-0.6804		
32	11.89	-0.01	3.9450	-2.6162	-0.0511	0.0058	0.0120	0.3651	-0.6721		
33	12.28	0.02	4.0884	-2.7501	0.0514	-0.0010	0.0350	0.3667	-0.6727		
34	12.68	0.02	4.1718	-2.8978	0.1375	0.0245	0.0160	0.3611	-0.6946		
35	13.02	0.03	4.4037	-3.0226	0.0882	-0.0015	0.0360	0.3600	-0.6464		
36	13.37	0.03	4.6522	-3.1413	0.1429	0.0551	0.0440	0.3576	-0.6997		
37	13.77	0.02	4.8522	-3.2327	0.1174	0.0581	0.0430	0.3520	-0.6448		
38	14.14	0.0	4.8252	-3.4377	0.0034	-0.0048	0.0400	0.3372	-0.7124		
39	14.52	0.02	5.0086	-3.6475	0.1448	-0.0347	0.0400	0.3340	-0.7282		
40	14.94	0.01	5.1345	-3.7308	0.0006	0.0451	0.0490	0.3312	-0.7259		
41	15.22	0.02	5.3125	-3.9780	0.1263	-0.0008	0.0480	0.3030	-0.7488		
42	15.62	0.01	5.4603	-4.0639	0.0176	0.1063	0.0490	0.2950	-0.7443		
43	15.94	0.01	5.6131	-4.2408	0.0412	0.0263	0.0440	0.2796	-0.7544		
44	16.28	-0.02	5.7927	-4.4766	0.0016	0.0548	0.0540	0.2759	-0.7725		
45	16.62	0.02	5.9390	-4.6661	0.1117	-0.0074	0.0440	0.2716	-0.7857		
46	16.97	0.02	6.1301	-4.8656	0.1254	0.0434	0.0450	0.2685	-0.7937		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PAPER MACH R150-6									
6 61 1.01 1.7 0.0 02W1P17 15.400 0 0 0 0 0 FIXED									
POINT	ALPHA	META	CN	CLM	CY	CLN	CLL	CAF	XCP
47	17.31	0.02	6.2915	-5.0306	0.0960	0.0776	0.0390	0.2790	-0.7996
48	17.66	0.02	6.4773	-5.2407	0.1029	-0.0091	0.0390	0.2949	-0.8091
49	17.99	0.02	6.6243	-5.3746	0.0996	0.0126	0.0340	0.3165	-0.8113
50	18.35	0.02	6.7565	-5.4446	0.0702	0.1677	0.0330	0.3413	-0.8058
51	18.69	0.01	6.8807	-5.5525	0.0663	0.1242	0.0270	0.3687	-0.8215
52	19.03	0.02	7.0278	-5.6254	0.0669	0.1233	0.0270	0.3813	-0.8289
53	19.37	0.0	7.1852	-5.6507	0.0893	0.1030	0.0260	0.3943	-0.8430
54	19.72	-0.01	7.2546	-6.1915	0.0473	0.1044	0.0120	0.3741	-0.8530
55	20.04	0.0	7.4132	-6.3001	0.0831	-0.0133	0.0100	0.3552	-0.8498
56	20.38	0.01	7.4971	-6.3585	0.0894	0.1033	0.0040	0.3176	-0.8481
57	20.72	-0.02	7.6005	-6.4153	-0.0165	0.1091	-0.0030	0.2483	-0.8441
58	21.05	0.0	7.7926	-6.6412	0.0479	0.1269	0.0030	0.2114	-0.8522
59	21.39	0.0	7.9342	-6.7814	0.0920	0.1622	-0.0030	0.1703	-0.8547
60	21.72	-0.02	8.0926	-6.8623	-0.0164	0.0730	-0.0020	0.1489	-0.8480
61	22.07	-0.01	8.2394	-6.9258	0.0004	0.1654	-0.0050	0.1427	-0.8406
62	22.40	-0.02	8.4405	-7.0693	0.0408	-0.0091	-0.0090	0.1488	-0.8375
63	22.74	0.0	8.6043	-7.2016	0.0844	0.1818	-0.0090	0.1652	-0.8370
64	23.07	-0.01	8.7044	-7.2563	0.0280	0.0938	-0.0120	0.1435	-0.8333
65	23.41	-0.02	8.8367	-7.2481	-0.0013	0.1638	-0.0210	0.2126	-0.8110
66	23.73	-0.01	9.0727	-7.2455	0.0367	0.1468	-0.0220	0.2374	-0.7986
67	24.05	0.0	9.1652	-7.0820	0.0518	0.1645	-0.0270	0.2339	0.3419
68	24.40	0.01	9.3218	-7.3662	0.1148	0.2193	-0.0250	0.2323	-0.7902
69	24.73	-0.02	9.4845	-7.3864	0.0330	0.1848	-0.0420	0.2354	-0.7787
70	25.08	-0.03	9.6402	-7.4261	-0.0686	0.3410	-0.0250	0.2326	-0.7664
71	25.39	-0.03	9.8243	-7.5998	-0.0124	0.2203	-0.0430	0.2211	-0.7736
72	25.70	-0.02	9.9001	-7.7159	0.0334	0.2172	-0.0140	0.1810	-0.7794
73	26.01	-0.03	10.0868	-7.8443	-0.0084	0.2754	-0.0240	0.1749	-0.7816
74	26.31	-0.03	10.2737	-7.9790	0.0180	0.1678	-0.0430	0.1938	-0.7766
75	26.62	-0.03	10.4036	-8.1169	-0.0212	0.2376	-0.0490	0.1909	-0.7802
76	26.95	-0.03	10.5827	-8.0360	-0.0533	0.3295	-0.0760	0.2319	-0.7594
77	27.25	-0.03	10.7860	-8.0903	-0.0661	0.3415	-0.0690	0.2358	-0.7501
78	27.57	-0.03	10.8947	-8.1205	-0.0987	0.4551	-0.0600	0.2419	-0.7454
79	27.89	-0.04	11.0057	-8.1319	-0.2094	0.5371	-0.0720	0.2389	-0.7389
80	28.21	-0.04	11.1542	-8.1769	-0.1764	0.5149	-0.0860	0.2268	-0.7331
81	28.53	-0.05	11.3429	-8.2771	-0.1893	0.3970	-0.0770	0.2130	-0.7297
82	28.84	-0.04	11.4546	-8.2690	-0.1524	0.4593	-0.1150	0.1818	-0.7218
83	29.14	-0.04	11.5668	-8.3207	-0.1098	0.3267	-0.1220	0.1619	-0.7195
84	29.47	-0.04	11.6973	-8.1572	-0.0769	0.4416	-0.1350	0.1081	-0.6974
85	29.75	-0.04	11.7425	-8.1545	-0.0573	0.3152	-0.1400	0.0922	-0.6944
86	30.09	-0.07	11.9365	-8.0993	-0.1936	0.2020	-0.1220	0.0913	-0.6785
87	30.40	-0.03	12.1487	-8.1723	-0.1199	0.5818	-0.1480	0.1047	-0.6727

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH HX10-6												
POINT	ALPHA	BETA	CNF1	CM1	CM1	XCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2
1	-2.44	0.02	0.0476	-0.0012	-0.0054	-0.0263	-0.1143	-0.0245	0.0039	-0.0305	-0.1368	1.0701
2	-2.42	0.03	0.0479	-0.0011	-0.0054	-0.0230	-0.1156	-0.0214	0.0032	-0.0258	-0.1518	1.2070
3	-2.04	0.04	0.0479	-0.0011	-0.0055	-0.0230	-0.1156	-0.0115	0.0021	-0.0211	-0.1826	1.8376
4	-1.39	0.01	0.0468	-0.0009	-0.0052	-0.0203	-0.1112	-0.0014	0.0012	-0.0172	-0.4570	12.2614
5	-0.41	0.02	0.0470	-0.0003	-0.0052	-0.0181	-0.1115	0.0114	0.0008	-0.0138	0.0745	-1.2104
6	-0.29	0.03	0.0471	-0.0007	-0.0053	-0.0159	-0.1126	0.0164	0.0007	-0.0119	0.0457	-0.7274
7	0.29	0.02	0.0525	-0.0007	-0.0059	-0.0133	-0.1125	0.0234	0.0008	-0.0094	0.0357	-0.3937
8	0.42	0.03	0.0512	-0.0008	-0.0055	-0.0117	-0.1082	0.0245	0.0010	-0.0069	0.0428	-0.2431
9	1.36	0.02	0.0442	-0.0005	-0.0031	-0.0114	-0.0651	0.0293	0.0008	-0.0041	0.0273	-0.1412
10	1.49	0.06	0.0449	-0.0005	-0.0030	-0.0107	-0.0634	0.0342	0.0001	-0.0017	0.0039	-0.0437
11	2.41	0.03	0.0464	-0.0006	-0.0042	-0.0124	-0.0890	0.0453	-0.0005	0.0035	-0.0121	0.0771
12	2.40	0.03	0.0471	-0.0005	-0.0042	-0.0117	-0.0893	0.0567	-0.0014	0.0074	-0.0256	0.1374
13	3.40	0.04	0.0522	-0.0005	-0.0036	-0.0105	-0.0641	0.0732	-0.0022	0.0133	-0.0300	0.1816
14	3.67	0.04	0.0523	-0.0007	-0.0048	-0.0134	-0.0913	0.0819	-0.0032	0.0192	-0.0391	0.2343
15	4.36	0.06	0.0545	-0.0011	-0.0062	-0.0124	-0.1093	0.1021	-0.0047	0.0273	-0.0460	0.2676
16	4.83	0.01	0.0545	-0.0006	-0.0044	-0.0115	-0.0845	0.1176	-0.0056	0.0335	-0.0480	0.2847
17	5.30	0.06	0.0545	-0.0006	-0.0056	-0.0101	-0.0937	0.1295	-0.0066	0.0424	-0.0513	0.3274
18	5.79	0.03	0.0617	-0.0007	-0.0044	-0.0113	-0.0720	0.1497	-0.0040	0.0511	-0.0534	0.3412
19	6.24	-0.01	0.0648	-0.0006	-0.0062	-0.0093	-0.0954	0.1701	-0.0092	0.0574	-0.0544	0.3397
20	6.72	0.02	0.0650	-0.0005	-0.0071	-0.0085	-0.1049	0.1851	-0.0106	0.0644	-0.0573	0.3554
21	7.14	0.04	0.0640	-0.0006	-0.0052	-0.0091	-0.0789	0.2079	-0.0115	0.0750	-0.0555	0.3606
22	7.66	0.02	0.0645	-0.0006	-0.0044	-0.0093	-0.0745	0.2277	-0.0122	0.0821	-0.0538	0.3604
23	8.08	-0.01	0.0648	-0.0006	-0.0053	-0.0086	-0.0765	0.2410	-0.0125	0.0902	-0.0521	0.3743
24	8.53	-0.06	0.0655	-0.0007	-0.0042	-0.0107	-0.0637	0.2641	-0.0133	0.0974	-0.0505	0.3684
25	8.94	0.01	0.0629	-0.0007	-0.0050	-0.0119	-0.0801	0.2417	-0.0138	0.1040	-0.0441	0.3691
26	9.39	-0.03	0.0618	-0.0007	-0.0049	-0.0113	-0.0744	0.3041	-0.0142	0.1121	-0.0467	0.3687
27	9.81	0.03	0.0544	-0.0005	-0.0057	-0.0084	-0.0749	0.3254	-0.0143	0.1229	-0.0439	0.3771
28	10.24	0.04	0.0645	-0.0005	-0.0024	-0.0079	-0.0447	0.3469	-0.0152	0.1314	-0.0439	0.3787
29	10.66	0.07	0.0533	-0.0004	-0.0051	-0.0075	-0.0464	0.3656	-0.0153	0.1367	-0.0420	0.3740
30	11.07	0.04	0.0534	-0.0001	-0.0050	-0.0019	-0.0924	0.3862	-0.0161	0.1440	-0.0418	0.3724
31	11.48	0.02	0.0540	0.0	-0.0053	0.0	-0.0943	0.3999	-0.0174	0.1514	-0.0435	0.3795
32	11.89	-0.01	0.0544	0.0002	-0.0061	0.0046	-0.1116	0.4247	-0.0182	0.1597	-0.0430	0.3761
33	12.28	0.02	0.0542	0.0003	-0.0060	0.0045	-0.1114	0.4297	-0.0182	0.1620	-0.0423	0.3770
34	12.64	0.02	0.0528	0.0007	-0.0027	0.0133	-0.0513	0.4444	-0.0182	0.1670	-0.0410	0.3755
35	13.02	0.03	0.0490	0.0007	-0.0039	0.0153	-0.0740	0.4655	-0.0187	0.1726	-0.0402	0.3704
36	13.37	0.03	0.0424	0.0004	-0.0052	0.0222	-0.1224	0.4711	-0.0192	0.1744	-0.0407	0.3752
37	13.77	0.02	0.0433	0.0012	-0.0029	0.0225	-0.0542	0.4817	-0.0200	0.1743	-0.0416	0.3702
38	14.14	0.0	0.0443	0.0012	-0.0047	0.0305	-0.1147	0.4941	-0.0206	0.1844	-0.0414	0.3643
39	14.52	0.02	0.0444	0.0014	-0.0012	0.0324	-0.0724	0.5124	-0.0215	0.1841	-0.0414	0.3644
40	14.84	0.01	0.0470	0.0014	-0.0045	0.0342	-0.1204	0.5247	-0.0221	0.1945	-0.0414	0.3653
41	15.22	0.02	0.0444	0.0014	-0.0014	0.0344	-0.0744	0.5444	-0.0230	0.1944	-0.0421	0.3642
42	15.54	0.01	0.0444	0.0014	-0.0014	0.0344	-0.1244	0.5444	-0.0230	0.1944	-0.0421	0.3642
43	15.94	0.01	0.0294	0.0014	-0.0044	0.0444	-0.1512	0.5744	-0.0225	0.2044	-0.0444	0.3607
44	16.24	-0.02	0.0244	0.0017	-0.0054	0.0704	-0.2344	0.6044	-0.0224	0.2156	-0.0444	0.3542
45	16.62	0.02	0.0194	0.0016	-0.0054	0.0824	-0.3044	0.6194	-0.0219	0.2204	-0.0444	0.3440
46	16.97	0.02	0.0194	0.0014	-0.0014	0.0724	-0.4114	0.6344	-0.0214	0.2204	-0.0444	0.3441

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REYNOLDS	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	61	1.01	1.7	0.0	0.2	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CMF1	CM1	CB1	XCPF1	YCPF1	CMF2	CM2	CB2	XCPF2	YCPF2
47	17.31	0.02	0.0161	0.0011	-0.0077	0.0683	-0.4804	0.6673	-0.0209	0.2336	-0.0313	0.3501
48	17.66	0.02	0.0109	0.0011	-0.0093	0.1009	-0.4503	0.6463	-0.0210	0.2446	-0.0302	0.3513
49	17.99	0.02	0.0112	0.0012	-0.0109	0.1071	-0.49704	0.7181	-0.0200	0.2502	-0.0278	0.3484
50	18.35	0.02	0.0064	0.0014	-0.0137	0.2147	-2.0574	0.7397	-0.0182	0.2530	-0.0246	0.3420
51	18.64	0.01	0.0034	0.0019	-0.0137	0.5734	-4.0197	0.7601	-0.0172	0.2590	-0.0227	0.3407
52	19.03	0.02	0.0044	0.0020	-0.0137	0.2329	-1.5531	0.7444	-0.0170	0.2635	-0.0216	0.3341
53	19.37	0.0	0.0103	0.0021	-0.0145	0.2034	-1.4046	0.8168	-0.0174	0.2702	-0.0213	0.3308
54	19.72	-0.01	0.0114	0.0019	-0.0158	0.1666	-1.3861	0.8267	-0.0177	0.2730	-0.0215	0.3302
55	20.04	0.0	0.0045	0.0017	-0.0149	0.2058	-1.7491	0.8449	-0.0176	0.2756	-0.0208	0.3267
56	20.38	0.01	0.0001	0.0020	-0.0168	20.4963	-167.6668	0.8522	-0.0179	0.2745	-0.0211	0.3279
57	20.72	-0.02	-0.0011	0.0006	-0.0152	-0.5904	13.7878	0.8560	-0.0437	0.2833	-0.0510	0.3310
58	21.05	0.0	-0.0054	0.0001	-0.0155	-0.0259	2.6780	0.8770	-0.0175	0.2895	-0.0200	0.3301
59	21.39	0.0	-0.0041	0.0003	-0.0164	-0.0732	3.9918	0.9018	-0.0153	0.2946	-0.0170	0.3267
60	21.72	-0.02	-0.0049	0.0008	-0.0146	-0.1734	2.9863	0.9099	-0.0152	0.2984	-0.0167	0.3279
61	22.07	-0.01	0.0073	0.0012	-0.0117	0.1644	-1.5298	0.9230	-0.0153	0.2998	-0.0166	0.3248
62	22.40	-0.02	-0.0058	0.0011	-0.0144	-0.1987	2.4844	0.9413	-0.0160	0.3062	-0.0170	0.3252
63	22.74	0.0	0.0006	0.0010	-0.0140	1.6664	-23.3335	0.9458	-0.0178	0.3114	-0.0186	0.3258
64	23.07	-0.01	-0.0063	0.0014	-0.0154	-0.2460	2.5078	0.9667	-0.0204	0.3143	-0.0211	0.3251
65	23.41	-0.02	-0.0049	0.0019	-0.0174	-0.2753	2.5796	0.9801	-0.0234	0.3170	-0.0239	0.3234
66	23.73	-0.01	-0.0221	0.0019	-0.0234	-0.0860	1.0753	0.9881	-0.0255	0.3171	-0.0258	0.3209
67	24.05	0.0	-0.0270	0.0013	-0.0231	-0.0441	0.8554	0.9899	-0.0264	0.3181	-0.0267	0.3213
68	24.40	0.01	-0.0325	0.0010	-0.0245	-0.0308	0.7548	0.9955	-0.0257	0.3184	-0.0259	0.3199
69	24.73	-0.02	-0.0435	0.0004	-0.0247	-0.0082	0.6110	1.0080	-0.0255	0.3203	-0.0253	0.3177
70	25.08	-0.03	-0.0507	-0.0005	-0.026	0.0083	0.5409	1.0272	-0.0248	0.3220	-0.0243	0.3150
71	25.39	-0.03	-0.0594	-0.0009	-0.0316	0.0159	0.5322	1.0404	-0.0239	0.3262	-0.0230	0.3135
72	25.70	-0.02	-0.0407	-0.0013	-0.0255	0.0442	0.6256	1.0580	-0.0167	0.3304	-0.0158	0.3123
73	26.01	-0.03	-0.0649	-0.0035	-0.0307	0.0531	0.4513	1.0784	-0.0142	0.3360	-0.0132	0.3116
74	26.31	-0.03	-0.0814	-0.0041	-0.0240	0.0676	0.4717	1.0975	-0.0144	0.3409	-0.0131	0.3106
75	26.62	-0.03	-0.0629	-0.0043	-0.0295	0.0684	0.4684	1.1212	-0.0125	0.3447	-0.0112	0.3074
76	26.95	-0.03	-0.0632	-0.0029	-0.0299	0.0467	0.4725	1.1332	-0.0154	0.3484	-0.0140	0.3075
77	27.25	-0.03	-0.0729	-0.0057	-0.0302	0.0789	0.4141	1.1417	-0.0164	0.3492	-0.0148	0.3059
78	27.57	-0.03	-0.0654	-0.0072	-0.0247	0.1108	0.3699	1.1495	-0.0172	0.3523	-0.0150	0.3065
79	27.89	-0.04	-0.0715	-0.0087	-0.0285	0.1154	0.3989	1.1633	-0.0160	0.3546	-0.0137	0.3049
80	28.21	-0.04	-0.0810	-0.0122	-0.0269	0.1512	0.3073	1.1725	-0.0156	0.3576	-0.0133	0.3050
81	28.53	-0.05	-0.0855	-0.0091	-0.0254	0.1397	0.3882	1.1882	-0.0124	0.3631	-0.0103	0.3030
82	28.84	-0.04	-0.0783	-0.0101	-0.0297	0.1296	0.3792	1.2062	-0.0102	0.3635	-0.0085	0.3014
83	29.14	-0.04	-0.0598	-0.0054	-0.0289	0.0970	0.4437	1.2120	-0.0058	0.3639	-0.0048	0.3007
84	29.47	-0.04	-0.0471	-0.0097	-0.0317	0.1113	0.3595	1.2044	-0.0019	0.3611	-0.0016	0.2998
85	29.75	-0.04	-0.0405	-0.0055	-0.0324	0.0683	0.4077	1.2180	0.0022	0.3620	0.0018	0.2972
86	30.09	-0.07	-0.0552	-0.0058	-0.0289	0.1060	0.5234	1.2250	0.0022	0.3631	0.0018	0.2964
87	30.40	-0.03	-0.0704	-0.0063	-0.0309	0.0895	0.4383	1.2432	0.0020	0.3672	0.0016	0.2953

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PARAM MACH X10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	A	B	C	D								
	61	1.01	1.7		0.0	02112	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-2.84	0.02	0.0131	0.0012	0.0072	0.0954	0.5470	-0.0937	0.0010	0.0012	-0.0107	-0.0126
2	-2.66	0.03	0.0311	0.0013	-0.0002	0.0434	-0.0076	-0.0910	0.0007	0.0048	-0.0077	-0.0525
3	-2.04	0.04	0.0350	0.0012	-0.0013	0.0357	-0.0387	-0.0661	-0.0004	0.0070	0.0068	-0.1055
4	-1.39	0.01	0.0227	0.0012	0.0027	0.0551	0.1174	-0.0638	-0.0014	0.0125	0.0227	-0.1966
5	-0.91	0.02	0.0292	0.0012	0.0010	0.0619	0.0510	-0.0499	-0.0015	0.0141	0.0311	-0.2820
6	-0.29	0.03	0.0410	0.0012	-0.0003	0.0403	-0.0087	-0.0505	-0.0015	0.0167	0.0307	-0.3302
7	0.29	0.02	0.0201	0.0004	0.0010	0.0473	0.0495	-0.0472	-0.0015	0.0182	0.0318	-0.3850
8	0.42	0.03	0.0308	0.0009	-0.0002	0.0308	-0.0077	-0.0405	-0.0009	0.0199	0.0222	-0.4915
9	1.36	0.02	0.0225	0.0008	0.0027	0.0378	0.1199	-0.0486	-0.0015	0.0246	0.0309	-0.5063
10	1.49	0.06	0.0225	0.0008	0.0027	0.0378	0.1199	-0.0310	-0.0021	0.0270	0.0693	-0.8700
11	2.41	0.03	0.0225	0.0008	0.0027	0.0378	0.1199	-0.0143	-0.0036	0.0333	0.2517	-2.3311
12	2.90	0.03	0.0235	0.0004	0.0059	0.0191	0.2524	-0.0048	-0.0051	0.0405	1.0623	-8.4376
13	3.40	0.04	0.0223	0.0004	0.0027	0.0202	0.1225	0.0046	-0.0061	0.0454	-0.7150	5.2751
14	3.47	0.04	0.0256	0.0003	0.0030	0.0137	0.1184	0.0258	-0.0075	0.0506	-0.2906	1.9611
15	4.36	0.06	0.0248	0.0002	0.0045	0.0101	0.1400	0.0416	-0.0089	0.0615	-0.2151	1.4774
16	4.53	0.01	0.0308	-0.0003	0.0059	-0.0097	0.1904	0.0628	-0.0100	0.0656	-0.1592	1.0450
17	5.30	0.06	0.0199	-0.0005	0.0070	-0.0251	0.3513	0.0792	-0.0111	0.0740	-0.1401	0.9342
18	5.79	0.03	0.0304	-0.0006	0.0065	-0.0147	0.2148	0.1029	-0.0123	0.0821	-0.1195	0.7977
19	6.24	-0.01	0.0305	-0.0010	0.0059	-0.0328	0.1922	0.1192	-0.0134	0.0904	-0.1124	0.7586
20	6.72	0.02	0.0291	-0.0010	0.0087	-0.0344	0.2989	0.1430	-0.0148	0.0985	-0.1035	0.6892
21	7.18	0.08	0.0318	-0.0014	0.0098	-0.0440	0.3081	0.1669	-0.0159	0.1060	-0.0952	0.6352
22	7.66	0.02	0.0374	-0.0014	0.0086	-0.0392	0.2408	0.1869	-0.0169	0.1123	-0.0904	0.6007
23	8.08	-0.01	0.0374	-0.0015	0.0118	-0.0414	0.1145	0.2062	-0.0176	0.1228	-0.0856	0.5956
24	8.53	-0.06	0.0357	-0.0014	0.0086	-0.0392	0.2408	0.2271	-0.0184	0.1267	-0.0810	0.5582
25	8.98	0.01	0.0421	-0.0015	0.0092	-0.0368	0.2192	0.2395	-0.0188	0.1362	-0.0787	0.5687
26	9.39	-0.03	0.0410	-0.0018	0.0114	-0.0451	0.2771	0.2778	-0.0196	0.1462	-0.0707	0.5261
27	9.81	0.03	0.0479	-0.0019	0.0113	-0.0407	0.2351	0.3236	-0.0195	0.1546	-0.0602	0.4778
28	10.24	0.08	0.0503	-0.0025	0.0131	-0.0507	0.2547	0.3374	-0.0202	0.1618	-0.0598	0.4796
29	10.66	0.07	0.0466	-0.0019	0.0142	-0.0418	0.3053	0.3649	-0.0203	0.1693	-0.0551	0.4590
30	11.07	0.08	0.0527	-0.0023	0.0155	-0.0436	0.2934	0.3849	-0.0209	0.1780	-0.0538	0.4576
31	11.48	0.02	0.0428	-0.0021	0.0153	-0.0505	0.3590	0.4211	-0.0216	0.1812	-0.0513	0.4303
32	11.89	-0.01	0.0402	-0.0023	0.0173	-0.0477	0.3581	0.4390	-0.0216	0.1927	-0.0493	0.4389
33	12.28	0.02	0.0446	-0.0022	0.0156	-0.0453	0.3250	0.4433	-0.0215	0.1912	-0.0486	0.4358
34	12.64	0.02	0.0444	-0.0022	0.0104	-0.0454	0.2144	0.4551	-0.0210	0.1967	-0.0462	0.4323
35	13.02	0.03	0.0440	-0.0022	0.0175	-0.0500	0.3969	0.4773	-0.0215	0.2042	-0.0451	0.4279
36	13.37	0.03	0.0442	-0.0021	0.0170	-0.0397	0.3129	0.5066	-0.0220	0.2088	-0.0435	0.4122
37	13.77	0.02	0.0507	-0.0033	0.0188	-0.0567	0.3729	0.5164	-0.0222	0.2133	-0.0430	0.4130
38	14.14	0.0	0.0472	-0.0028	0.0206	-0.0450	0.3116	0.5411	-0.0230	0.2147	-0.0425	0.4060
39	14.52	0.02	0.0471	-0.0041	0.0205	-0.0604	0.3927	0.5651	-0.0232	0.2237	-0.0411	0.4956
40	14.84	0.01	0.0461	-0.0024	0.0199	-0.0511	0.4308	0.5801	-0.0234	0.2298	-0.0404	0.3961
41	15.22	0.02	0.0541	-0.0033	0.0227	-0.0568	0.3900	0.6028	-0.0233	0.2353	-0.0386	0.3903
42	15.62	0.01	0.0528	-0.0026	0.0207	-0.0502	0.3919	0.6149	-0.0230	0.2393	-0.0375	0.3891
43	15.94	0.01	0.0589	-0.0021	0.0228	-0.0365	0.3841	0.6368	-0.0225	0.2444	-0.0354	0.3838
44	16.28	-0.02	0.0698	-0.0021	0.0215	-0.0308	0.3074	0.6719	-0.0223	0.2536	-0.0332	0.3774
45	16.62	0.02	0.0611	-0.0021	0.0252	-0.0352	0.4118	0.6853	-0.0217	0.2577	-0.0317	0.3761
46	16.97	0.02	0.0756	-0.0022	0.0235	-0.0291	0.3107	0.7094	-0.0210	0.2654	-0.0296	0.3741

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	4X10-6	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	61	1.01	1.7	0.0	H21F12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CH4	XCPF4	YCPF4
47	17.31	0.02	0.0612	-0.0021	0.0252	-0.0351	0.4116	0.7277	-0.0215	0.2700	-0.0296	0.3713
48	17.66	0.02	0.0613	-0.0018	0.0251	-0.0302	0.4099	0.7689	-0.0216	0.2758	-0.0281	0.3587
49	17.99	0.02	0.0791	-0.0017	0.0230	-0.0215	0.2907	0.7890	-0.0216	0.2841	-0.0274	0.3601
50	18.35	0.02	0.0705	-0.0014	0.0250	-0.0255	0.3545	0.8029	-0.0205	0.2863	-0.0256	0.3566
51	18.64	0.01	0.0851	-0.0013	0.0284	-0.0159	0.3332	0.8470	-0.0200	0.2918	-0.0238	0.3465
52	19.03	0.02	0.0874	-0.0016	0.0292	-0.0143	0.3344	0.8499	-0.0198	0.2996	-0.0233	0.3525
53	19.37	0.0	0.0873	-0.0013	0.0291	-0.0155	0.3332	0.8482	-0.0199	0.3050	-0.0225	0.3457
54	19.72	-0.01	0.0856	-0.0010	0.0317	-0.0117	0.3706	0.8487	-0.0199	0.3055	-0.0221	0.3399
55	20.04	0.0	0.0835	-0.0013	0.0330	-0.0156	0.3955	0.9053	-0.0198	0.3072	-0.0219	0.3393
56	20.38	0.01	0.0922	-0.0013	0.0315	-0.0141	0.3419	0.9144	-0.0199	0.3118	-0.0217	0.3395
57	20.72	-0.02	0.0861	-0.0006	0.0317	-0.0075	0.3641	0.9250	-0.0192	0.3125	-0.0207	0.3379
58	21.05	0.0	0.0835	-0.0017	0.0307	-0.0210	0.3679	0.9425	-0.0184	0.3177	-0.0195	0.3370
59	21.39	0.0	0.0847	-0.0011	0.0306	-0.0136	0.3615	0.9632	-0.0160	0.3209	-0.0167	0.3331
60	21.72	-0.02	0.0878	-0.0010	0.0326	-0.0120	0.3708	0.9756	-0.0151	0.3260	-0.0155	0.3341
61	22.07	-0.01	0.0884	-0.0007	0.0327	-0.0085	0.3674	0.9834	-0.0126	0.3293	-0.0129	0.3348
62	22.40	-0.02	0.0872	-0.0003	0.0355	-0.0040	0.4078	1.0058	-0.0133	0.3345	-0.0133	0.3325
63	22.74	0.0	0.0847	-0.0002	0.0338	-0.0030	0.3993	1.0308	-0.0147	0.3380	-0.0143	0.3279
64	23.07	-0.01	0.1033	-0.0001	0.0376	-0.0010	0.3642	1.0447	-0.0161	0.3428	-0.0155	0.3281
65	23.41	-0.02	0.0908	-0.0002	0.0349	0.0028	0.3850	1.0636	-0.0187	0.3431	-0.0176	0.3226
66	23.73	-0.01	0.1134	0.0009	0.0364	0.0071	0.3253	1.0593	-0.0204	0.3486	-0.0193	0.3291
67	24.05	0.0	0.1047	0.0008	0.0397	0.0076	0.3741	1.0627	-0.0210	0.3484	-0.0198	0.3279
68	24.40	0.01	0.1043	0.0004	0.0396	0.0038	0.3802	1.0740	-0.0199	0.3492	-0.0185	0.3251
69	24.73	-0.02	0.1120	0.0016	0.0378	0.0134	0.3141	1.0938	-0.0194	0.3528	-0.0178	0.3225
70	25.08	-0.03	0.1153	0.0012	0.0382	0.0104	0.3315	1.1205	-0.0171	0.3571	-0.0153	0.3187
71	25.39	-0.03	0.1169	0.0022	0.0361	0.0188	0.3093	1.1374	-0.0168	0.3588	-0.0149	0.3169
72	25.70	-0.02	0.1060	0.0012	0.0367	0.0113	0.3464	1.1469	-0.0106	0.3623	-0.0092	0.3159
73	26.01	-0.03	0.1296	0.0023	0.0381	0.0141	0.2939	1.1878	-0.0092	0.3681	-0.0077	0.3099
74	26.31	-0.03	0.1293	0.0020	0.0388	0.0159	0.3000	1.2020	-0.0097	0.3738	-0.0081	0.3110
75	26.62	-0.03	0.1333	0.0022	0.0376	0.0169	0.2822	1.2160	-0.0094	0.3753	-0.0077	0.3086
76	26.95	-0.03	0.1265	0.0017	0.0370	0.0138	0.2929	1.2267	-0.0124	0.3736	-0.0101	0.3047
77	27.25	-0.03	0.1471	0.0026	0.0366	0.0140	0.2489	1.2485	-0.0111	0.3800	-0.0089	0.3044
78	27.57	-0.03	0.1326	0.0015	0.0376	0.0124	0.2834	1.2685	-0.0108	0.3803	-0.0086	0.2998
79	27.89	-0.04	0.1468	0.0032	0.0364	0.0221	0.2481	1.2782	-0.0098	0.3834	-0.0077	0.3000
80	28.21	-0.04	0.1407	0.0026	0.0353	0.0185	0.2508	1.3106	-0.0066	0.3871	-0.0050	0.2954
81	28.53	-0.05	0.1373	0.0032	0.0356	0.0233	0.2597	1.3134	-0.0045	0.3886	-0.0034	0.2959
82	28.84	-0.04	0.1438	0.0036	0.0361	0.0250	0.2512	1.3365	-0.0004	0.3872	-0.0003	0.2897
83	29.14	-0.04	0.1481	0.0048	0.0357	0.0324	0.2414	1.3442	0.0028	0.3924	0.0021	0.2914
84	29.47	-0.04	0.1448	0.0042	0.0363	0.0293	0.2510	1.3085	0.0136	0.3801	0.0104	0.2905
85	29.75	-0.04	0.1454	0.0042	0.0364	0.0292	0.2507	1.3171	0.0137	0.3818	0.0104	0.2899
86	30.09	-0.07	0.1517	0.0044	0.0385	0.0290	0.2541	1.3252	0.0152	0.3807	0.0115	0.2873
87	30.40	-0.03	0.1460	0.0042	0.0365	0.0291	0.2503	1.3439	0.0151	0.3834	0.0113	0.2853

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SMLET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST POINT	MACH	RAIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	62	1.05	1.7	0.0	82W1F12	15.400	0	0	0	FIXED
POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.85	0.02	-0.6621	0.0141	0.0966	0.0798	0.0230	0.4016	-0.0213	
2	-2.73	0.03	-0.6620	0.0025	0.1507	-0.0650	0.0270	0.3992	-0.0039	
3	-2.07	0.03	-0.4355	-0.0971	0.1577	-0.0008	0.0270	0.4035	0.2230	
4	-1.44	0.02	-0.2913	-0.1512	0.1232	0.0445	0.0210	0.3952	0.5190	
5	-0.87	0.01	-0.1355	-0.1743	0.0146	0.1029	0.0340	0.3858	1.2863	
6	-0.32	0.03	-0.0256	-0.1051	0.1343	0.0210	0.0240	0.4199	4.1078	
7	0.25	0.03	0.1134	-0.0182	0.1449	-0.0449	0.0160	0.4420	-0.1521	
8	0.79	0.04	0.2084	-0.0105	0.1704	0.0574	0.0210	0.4646	-0.0501	
9	1.32	0.03	0.3334	0.0555	0.1327	-0.0001	0.0220	0.4784	0.1663	
10	1.87	0.03	0.5134	-0.0056	0.1737	-0.0017	0.0220	0.4754	-0.0109	
11	2.37	0.02	0.5719	-0.0448	0.1136	-0.0200	0.0170	0.4744	-0.0667	
12	2.87	0.04	0.7964	-0.1331	0.1709	0.0207	0.0240	0.4638	-0.1671	
13	3.35	0.06	0.9243	-0.1861	0.0949	-0.0249	0.0240	0.4562	-0.2014	
14	3.86	0.03	1.1191	-0.2984	0.1143	-0.1020	0.0310	0.4531	-0.2670	
15	4.34	0.04	1.2444	-0.3914	0.2606	-0.0818	0.0320	0.4488	-0.3133	
16	4.81	0.01	1.3946	-0.5103	0.1438	-0.1303	0.0410	0.4404	-0.3648	
17	5.27	0.0	1.5906	-0.7000	0.0009	0.0117	0.0320	0.4365	-0.4401	
18	5.77	0.0	1.7922	-0.8452	-0.0463	0.0508	0.0320	0.4267	-0.4716	
19	6.27	0.0	1.9311	-1.0418	0.0111	-0.0715	0.0320	0.4126	-0.5395	
20	6.69	0.02	2.0977	-1.1930	0.1038	-0.0223	0.0390	0.4064	-0.5687	
21	7.16	0.01	2.2619	-1.3154	-0.0742	0.0079	0.0280	0.4100	-0.5818	
22	7.64	0.02	2.4352	-1.4495	0.1399	-0.0848	0.0290	0.4082	-0.6158	
23	8.06	0.0	2.5497	-1.6478	0.1241	-0.0087	0.0310	0.4305	-0.6463	
24	8.50	0.05	2.7266	-1.7926	0.2460	-0.1244	0.0240	0.4263	-0.6574	
25	8.96	0.06	2.9202	-1.9446	0.2554	-0.0211	0.0310	0.4368	-0.6659	
26	9.37	0.01	3.0554	-2.1448	0.0547	-0.0436	0.0380	0.4153	-0.7020	
27	9.79	0.03	3.2082	-2.3047	0.0966	-0.0262	0.0310	0.4055	-0.7184	
28	10.22	0.0	3.3382	-2.3837	0.1479	0.0479	0.0370	0.3847	-0.7141	
29	10.63	0.07	3.4439	-2.5428	0.1771	-0.0359	0.0370	0.3745	-0.7278	
30	11.06	0.06	3.5527	-2.6771	0.2095	0.0117	0.0370	0.3869	-0.7329	
31	11.48	0.05	3.7417	-2.8547	0.1523	-0.1052	0.0320	0.3549	-0.7045	
32	11.87	0.03	3.9084	-2.7891	0.0920	0.0182	0.0320	0.3574	-0.7136	
33	12.26	0.04	4.1344	-3.0555	0.0989	-0.0275	0.0410	0.3849	-0.7390	
34	12.62	0.03	4.2609	-3.2767	0.0349	0.0401	0.0360	0.3998	-0.7690	
35	12.98	0.04	4.4290	-3.5170	0.0495	0.0187	0.0440	0.4129	-0.7941	
36	13.36	0.02	4.5502	-3.5297	0.1312	-0.0867	0.0410	0.4097	-0.7757	
37	13.72	0.01	4.7160	-3.8027	0.0464	-0.0825	0.0350	0.4146	-0.8064	
38	14.12	0.03	4.9053	-3.8828	0.1541	0.0373	0.0390	0.4052	-0.7915	
39	14.48	0.02	5.0273	-3.9447	0.0489	0.0145	0.0370	0.3932	-0.7946	
40	14.84	0.02	5.1609	-4.1027	0.0775	0.1275	0.0580	0.3968	-0.7950	
41	15.21	0.0	5.3414	-4.3494	0.0141	-0.0067	0.0520	0.3944	-0.8143	
42	15.59	0.02	5.4521	-4.4283	0.0784	0.0712	0.0440	0.4024	-0.8122	
43	15.94	0.03	5.6041	-4.6461	0.1714	-0.0150	0.0310	0.3945	-0.8291	
44	16.30	0.0	5.8000	-4.7515	0.0822	0.0159	0.0370	0.3885	-0.8192	
45	16.64	0.01	5.9532	-4.8880	0.0665	-0.0161	0.0350	0.3845	-0.8211	
46	16.98	0.03	6.0527	-4.9453	0.1688	0.0127	0.0310	0.3556	-0.8170	

MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
	6	6P	1.05	1.7	0.0	H21F12									15.400
ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP							
47	17.32	0.0	6.1936	-5.1355	0.0288	0.0777	0.0300	0.3611	-0.8292						
48	17.07	-0.02	6.3861	-5.2790	0.0101	0.0359	0.0260	0.3466	-0.8266						
49	17.99	0.02	6.5258	-5.4987	0.0870	0.0472	0.0210	0.3522	-0.8426						
50	18.75	-0.01	6.6517	-5.6089	0.0488	0.0427	0.0310	0.3346	-0.8432						
51	18.68	0.02	6.4098	-5.7832	0.0173	0.2078	0.0200	0.3292	-0.8492						
52	19.02	0.01	6.9756	-5.8703	0.0336	0.0660	0.0710	0.3102	-0.8416						
53	19.36	0.03	7.0654	-5.9604	0.1362	0.0393	0.0230	0.3042	-0.8435						
54	19.70	0.03	7.2452	-6.1757	0.1398	0.0963	0.0170	0.3118	-0.8524						
55	20.03	0.01	7.3333	-6.2882	0.1593	0.0310	0.0110	0.2966	-0.8575						
56	20.36	-0.01	7.5562	-6.5412	0.0671	0.0291	0.0010	0.3257	-0.8657						
57	20.71	-0.01	7.8854	-6.7081	0.0353	0.0626	-0.0040	0.3295	-0.8728						
58	21.06	0.02	7.8324	-6.8439	0.1280	0.0088	-0.0040	0.3377	-0.8738						
59	21.41	-0.02	7.9550	-6.8845	-0.0375	0.1255	0.0010	0.3339	-0.8461						
60	21.75	0.02	8.0627	-6.9434	0.1214	0.0030	0.0140	0.3348	-0.8612						
61	22.10	-0.02	8.2093	-6.9746	0.0712	-0.0637	-0.0090	0.3248	-0.8496						
62	22.45	-0.01	8.4021	-7.0206	0.0770	0.0092	-0.0040	0.3336	-0.8356						
63	22.76	0.01	8.4659	-7.0689	0.1823	0.0068	-0.0150	0.3243	-0.8409						
64	23.09	-0.01	8.5346	-7.1290	0.0811	-0.0155	-0.0050	0.3143	-0.8350						
65	23.41	-0.02	8.6497	-7.1732	0.0857	0.0890	-0.0170	0.3072	-0.8245						
66	23.74	-0.03	8.9043	-7.1848	0.0189	0.0715	-0.0430	0.3027	-0.8013						
67	24.06	-0.02	8.9384	-7.1615	0.1299	0.0121	-0.0430	0.2905	-0.8012						
68	24.42	-0.02	9.2131	-7.2511	0.0289	0.2125	-0.0390	0.2996	-0.7870						
69	24.76	-0.03	9.3846	-7.3062	-0.0277	0.1618	-0.0430	0.2961	-0.7785						
70	25.07	-0.02	9.4813	-7.4175	0.0710	0.1196	-0.0610	0.3075	-0.7823						
71	25.38	-0.03	9.5136	-7.4567	0.0462	0.0715	-0.0610	0.3086	-0.7838						
72	25.73	-0.02	9.7320	-7.4476	0.0903	0.0446	-0.0660	0.3184	-0.7653						
73	26.04	-0.01	9.8382	-7.4435	0.0367	0.1506	-0.0690	0.3067	-0.7567						
74	26.45	-0.03	10.0176	-7.4445	-0.0354	0.2005	-0.0680	0.3143	-0.7431						
75	26.71	-0.02	10.1905	-7.4035	-0.0069	0.4526	-0.0420	0.3171	-0.7265						
76	26.96	-0.03	10.2772	-7.5019	0.0183	0.3423	-0.0430	0.3074	-0.7300						
77	27.29	-0.04	10.4511	-7.5185	-0.0754	0.4015	-0.0630	0.3045	-0.7194						
78	27.60	-0.03	10.5494	-7.6907	-0.0280	0.4261	-0.0710	0.2953	-0.7290						
79	27.94	-0.04	10.8093	-7.8579	-0.2731	0.8572	-0.0560	0.2817	-0.7270						
80	28.22	-0.03	10.8707	-7.8869	-0.0399	0.4508	-0.0890	0.2696	-0.7255						
81	28.53	-0.05	11.0737	-7.9931	-0.2104	0.5125	-0.0840	0.2594	-0.7218						
82	28.86	-0.05	11.1924	-7.9344	-0.2644	0.6641	-0.0940	0.2350	-0.7089						
83	29.17	-0.02	11.3883	-7.9997	-0.1783	0.8955	-0.1150	0.2245	-0.7024						
84	29.50	-0.04	11.5410	-7.9314	-0.1814	0.8859	-0.1270	0.2022	-0.6866						
85	29.80	-0.02	11.6678	-8.0270	0.0411	0.4304	-0.1300	0.2102	-0.6880						
86	30.15	0.0	11.9686	-8.2402	-0.0502	1.0001	-0.1350	0.2133	-0.6885						
87	30.45	-0.03	12.0440	-8.2087	-0.1582	0.8094	-0.1290	0.1956	-0.6816						
88	30.77	-0.08	12.1716	-8.2684	-0.5323	0.7493	-0.1260	0.1956	-0.6793						

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AEDEC-TR-75-125

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	HTIO-6	PHI	CONF	L	DEL1	DPL2	DEL3	DEL4	TRANSITION		
62	1.05	1.7	0.0	H2W112	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CM1	CM2	XCPF1	YCPF1	CNF2	CM2	CM3	XCPF2	YCPF2
1	-2.25	0.02	0.0436	-0.0002	-0.0054	-0.0057	-0.1347	-0.0289	0.0027	-0.0277	-0.0934	0.9595
2	-2.73	0.03	0.0456	-0.0005	-0.0043	-0.0110	-0.0944	-0.0279	0.0025	-0.0265	-0.0914	0.9497
3	-2.97	0.03	0.0448	-0.0003	-0.0060	-0.0078	-0.1333	-0.0124	0.0005	-0.0192	-0.0443	1.5510
4	-1.44	0.02	0.0374	0.0001	-0.0061	0.0040	-0.1402	0.0006	-0.0006	-0.0126	-0.9998	-21.0001
5	-0.87	0.01	0.0437	-0.0002	-0.0058	-0.0057	-0.1336	0.0114	-0.0012	-0.0003	-0.1096	-0.7287
6	-0.32	0.03	0.0440	-0.0000	-0.0054	-0.0011	-0.1350	0.0136	-0.0006	-0.0073	-0.0478	-0.5344
7	0.25	0.03	0.0424	-0.0004	-0.0036	-0.0091	-0.0737	0.0187	0.0002	-0.0072	0.0134	-0.3434
8	0.74	0.04	0.0443	-0.0006	-0.0037	-0.0110	-0.0683	0.0167	0.0007	-0.0048	0.0419	-0.2495
9	1.32	0.03	0.0460	-0.0005	-0.0024	-0.0145	-0.0624	0.0252	0.0002	-0.0019	0.0099	-0.0755
10	1.47	0.03	0.0485	-0.0004	-0.0042	-0.0146	-0.0874	0.0344	-0.0002	0.0020	-0.0057	0.0581
11	2.37	0.02	0.0447	-0.0005	-0.0023	-0.0171	-0.0471	0.0468	-0.0014	0.0017	-0.0299	0.1644
12	2.87	0.04	0.0501	-0.0006	-0.0026	-0.0120	-0.0520	0.0544	-0.0025	0.0133	-0.0455	0.2421
13	3.35	0.06	0.0525	-0.0006	-0.0028	-0.0124	-0.0535	0.0649	-0.0032	0.0184	-0.0486	0.2749
14	4.86	0.03	0.0547	-0.0005	-0.0037	-0.0092	-0.0640	0.0867	-0.0050	0.0268	-0.0580	0.3112
15	4.34	0.04	0.0617	-0.0005	-0.0037	-0.0049	-0.0406	0.1023	-0.0056	0.0316	-0.0552	0.3084
16	4.81	0.01	0.0541	-0.0004	-0.0033	-0.0069	-0.0575	0.1204	-0.0067	0.0389	-0.0561	0.3232
17	5.27	0.0	0.0622	-0.0003	-0.0047	-0.0048	-0.0751	0.1380	-0.0088	0.0493	-0.0641	0.3571
18	5.77	0.0	0.0586	-0.0002	-0.0045	-0.0043	-0.0763	0.1563	-0.0102	0.0576	-0.0656	0.3644
19	6.22	0.0	0.0595	-0.0001	-0.0064	-0.0017	-0.1155	0.1744	-0.0114	0.0653	-0.0671	0.3713
20	6.64	0.02	0.0630	-0.0004	-0.0044	-0.0127	-0.0779	0.2015	-0.0121	0.0763	-0.0600	0.3749
21	7.16	0.01	0.0670	-0.0007	-0.0051	-0.0112	-0.0757	0.2226	-0.0128	0.0840	-0.0577	0.3772
22	7.64	0.02	0.0634	-0.0006	-0.0054	-0.0103	-0.0848	0.2420	-0.0134	0.0911	-0.0574	0.3849
23	8.06	0.0	0.0573	-0.0007	-0.0056	-0.0035	-0.1153	0.2557	-0.0152	0.0978	-0.0596	0.3825
24	8.50	0.05	0.0655	-0.0001	-0.0055	-0.0023	-0.0836	0.2813	-0.0158	0.1072	-0.0561	0.3812
25	8.96	0.06	0.0641	-0.0002	-0.0051	-0.0039	-0.0802	0.3060	-0.0173	0.1158	-0.0565	0.3783
26	9.37	0.01	0.0659	-0.0007	-0.0056	-0.0114	-0.0846	0.3252	-0.0154	0.1233	-0.0475	0.3790
27	9.74	0.03	0.0647	-0.0007	-0.0061	-0.0116	-0.0944	0.3497	-0.0156	0.1321	-0.0447	0.3778
28	10.22	0.0	0.0563	-0.0004	-0.0064	-0.0080	-0.1144	0.3615	-0.0148	0.1380	-0.0409	0.3816
29	10.63	0.07	0.0603	-0.0004	-0.0064	-0.0056	-0.1124	0.3814	-0.0146	0.1438	-0.0383	0.3764
30	11.06	0.06	0.0542	-0.0002	-0.0054	-0.0042	-0.0492	0.4016	-0.0154	0.1517	-0.0386	0.3774
31	11.46	0.09	0.0598	0.0	-0.0069	0.0	-0.1144	0.4124	-0.0155	0.1568	-0.0375	0.3797
32	11.97	0.03	0.0600	0.0000	-0.0064	0.0004	-0.1151	0.4306	-0.0157	0.1615	-0.0366	0.3750
33	12.26	0.04	0.0640	0.0003	-0.0041	0.0047	-0.0637	0.4467	-0.0170	0.1734	-0.0373	0.3796
34	12.62	0.03	0.0543	0.0005	-0.0063	0.0092	-0.1161	0.4767	-0.0180	0.1802	-0.0377	0.3781
35	12.98	0.04	0.0597	0.0004	-0.0054	0.0142	-0.0973	0.4990	-0.0190	0.1864	-0.0382	0.3735
36	13.36	0.02	0.0644	0.0004	-0.0041	0.0132	-0.0643	0.5067	-0.0187	0.1887	-0.0370	0.3725
37	13.72	0.01	0.0594	0.0014	-0.0070	0.0234	-0.1180	0.5243	-0.0200	0.1940	-0.0378	0.3673
38	14.12	0.03	0.0636	0.0012	-0.0033	0.0147	-0.0520	0.5400	-0.0197	0.1945	-0.0366	0.3677
39	14.48	0.02	0.0560	0.0011	-0.0054	0.0146	-0.0471	0.5518	-0.0186	0.2027	-0.0337	0.3673
40	14.83	0.02	0.0523	0.0016	-0.0044	0.0306	-0.1773	0.5672	-0.0186	0.2078	-0.0328	0.3664
41	15.21	0.0	0.0542	0.0014	-0.0067	0.0338	-0.1187	0.5846	-0.0192	0.2107	-0.0328	0.3604
42	15.54	0.02	0.0506	0.0021	-0.0067	0.0425	-0.1727	0.6047	-0.0194	0.2166	-0.0328	0.3582
43	15.94	0.03	0.0559	0.0023	-0.0070	0.0413	-0.1237	0.6204	-0.0195	0.2212	-0.0315	0.3566
44	16.30	0.0	0.0535	0.0024	-0.0096	0.0449	-0.1784	0.6336	-0.0185	0.2222	-0.0242	0.3507
45	16.64	0.01	0.0487	0.0024	-0.0112	0.0503	-0.2244	0.6536	-0.0174	0.2270	-0.0274	0.3473
46	16.98	0.03	0.0394	0.0030	-0.0144	0.0764	-0.3736	0.6635	-0.0176	0.2316	-0.0266	0.3490

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AXIU-6	PM1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	67	1.05 1.7	0.0	H2W1P12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	ME1A	CNF1	CM1	CM1	XCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2
47	17.32	0.0	0.0397	0.0029	-0.0147	0.0730	-0.3696	0.6849	-0.0163	0.2379	-0.0238	0.3474
48	17.57	-0.02	0.0308	0.0029	-0.0151	0.0941	-0.4915	0.7118	-0.0156	0.2415	-0.0220	0.3393
49	17.94	0.02	0.0307	0.0028	-0.0154	0.0912	-0.5137	0.7291	-0.0148	0.2481	-0.0203	0.3403
50	18.35	-0.01	0.0233	0.0028	-0.0140	0.1202	-0.7741	0.7469	-0.0154	0.2571	-0.0207	0.3375
51	18.68	0.02	0.0228	0.0028	-0.0140	0.1074	-0.7896	0.7625	-0.0154	0.2574	-0.0202	0.3375
52	19.02	0.01	0.0220	0.0021	-0.0157	0.0977	-0.7127	0.7778	-0.0157	0.2670	-0.0202	0.3368
53	19.36	0.03	0.0138	0.0028	-0.0165	0.1739	-1.3407	0.8884	-0.0155	0.2651	-0.0194	0.3321
54	19.70	0.03	0.0167	0.0019	-0.0172	0.1138	-1.0321	0.8223	-0.0154	0.2719	-0.0187	0.3307
55	20.03	0.01	0.0089	0.0020	-0.0196	0.2970	-2.8407	0.8357	-0.0154	0.2772	-0.0185	0.3317
56	20.36	-0.01	0.0139	0.0018	-0.0171	0.1295	-1.2779	0.8634	-0.0141	0.2840	-0.0164	0.3289
57	20.71	-0.01	0.0174	0.0022	-0.0203	0.1774	-1.6345	0.8892	-0.0131	0.2875	-0.0149	0.3255
58	21.06	0.02	0.0082	0.0026	-0.0221	0.3231	-2.6912	0.9019	-0.0134	0.2923	-0.0149	0.3241
59	21.41	-0.02	0.0129	0.0026	-0.0194	0.2015	-1.5040	0.9172	-0.0145	0.2966	-0.0159	0.3234
60	21.75	0.02	0.0124	0.0029	-0.0214	0.2379	-1.7232	0.9197	-0.0153	0.2977	-0.0167	0.3236
61	22.10	-0.02	0.0060	0.0029	-0.0217	0.4916	-3.6168	0.9336	-0.0163	0.2999	-0.0175	0.3212
62	22.45	-0.01	0.0108	0.0028	-0.0209	0.2592	-1.9353	0.9389	-0.0166	0.3022	-0.0198	0.3218
63	22.76	0.01	0.0065	0.0031	-0.0234	0.4845	-3.6052	0.9488	-0.0171	0.3045	-0.0181	0.3209
64	23.09	-0.01	0.0022	0.0036	-0.0235	1.6361	-10.6668	0.9541	-0.0188	0.3058	-0.0197	0.3205
65	23.41	-0.02	-0.0062	0.0037	-0.0310	-0.4511	3.7844	0.9688	-0.0172	0.3099	-0.0178	0.3199
66	23.74	-0.03	-0.0096	0.0029	-0.0273	-0.3010	2.7822	0.9804	-0.0182	0.3121	-0.0186	0.3183
67	24.06	-0.02	-0.0120	0.0023	-0.0267	-0.1916	2.3499	0.9872	-0.0183	0.3125	-0.0185	0.3165
68	24.42	-0.02	-0.0174	0.0024	-0.0342	-0.1408	1.9654	0.9931	-0.0193	0.3152	-0.0195	0.3174
69	24.76	-0.03	-0.0326	0.0020	-0.0403	-0.0629	1.2351	1.0009	-0.0200	0.3164	-0.0200	0.3151
70	25.07	-0.02	-0.0300	0.0021	-0.0396	-0.0717	1.3199	1.0141	-0.0214	0.3210	-0.0211	0.3166
71	25.38	-0.03	-0.0398	0.0012	-0.0433	-0.0301	1.0870	1.0142	-0.0222	0.3193	-0.0219	0.3148
72	25.73	-0.02	-0.0499	0.0001	-0.0467	-0.0020	0.9364	1.0123	-0.0234	0.3183	-0.0231	0.3144
73	26.04	-0.01	-0.0581	-0.0012	-0.0485	0.0215	0.8341	1.0194	-0.0236	0.3189	-0.0232	0.3128
74	26.35	-0.03	-0.0558	-0.0012	-0.0461	0.0215	0.8250	1.0219	-0.0248	0.3203	-0.0243	0.3135
75	26.71	-0.02	-0.0732	-0.0038	-0.0499	0.0526	0.6816	1.0222	-0.0255	0.3212	-0.0249	0.3142
76	26.98	-0.03	-0.0588	-0.0050	-0.0403	0.0912	0.7347	1.0300	-0.0264	0.3218	-0.0256	0.3124
77	27.29	-0.04	-0.0835	-0.0061	-0.0470	0.0738	0.5632	1.0502	-0.0267	0.3263	-0.0254	0.3107
78	27.60	-0.03	-0.0794	-0.0059	-0.0453	0.0741	0.5694	1.0630	-0.0273	0.3284	-0.0257	0.3089
79	27.94	-0.04	-0.1108	-0.0120	-0.0449	0.1043	0.4054	1.0760	-0.0259	0.3345	-0.0241	0.3109
80	28.22	-0.03	-0.0988	-0.0099	-0.0425	0.1015	0.4382	1.0864	-0.0260	0.3354	-0.0239	0.3087
81	28.53	-0.05	-0.0879	-0.0102	-0.0364	0.1236	0.4394	1.1027	-0.0249	0.3415	-0.0226	0.3098
82	28.86	-0.05	-0.0917	-0.0119	-0.0396	0.1303	0.4325	1.1219	-0.0234	0.3451	-0.0209	0.3076
83	29.17	-0.02	-0.1064	-0.0153	-0.0358	0.1438	0.3370	1.1410	-0.0232	0.3526	-0.0203	0.3090
84	29.50	-0.04	-0.0945	-0.0133	-0.0361	0.1407	0.3819	1.1474	-0.0230	0.3524	-0.0201	0.3070
85	29.80	-0.02	-0.0983	-0.0127	-0.0392	0.1292	0.3993	1.1567	-0.0235	0.3550	-0.0203	0.3069
86	30.15	0.0	-0.1280	-0.0157	-0.0428	0.1276	0.3348	1.1651	-0.0234	0.3586	-0.0201	0.3077
87	30.45	-0.03	-0.0788	-0.0112	-0.0238	0.1427	0.3015	1.1877	-0.0215	0.3643	-0.0181	0.3067
88	30.77	-0.08	-0.1257	-0.0161	-0.0358	0.1281	0.2847	1.1857	-0.0226	0.3620	-0.0191	0.3053

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
62	1.65	1.7	0.0	82WIF12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
1	-2.85	0.02	0.0217	0.0008	0.0026	0.0369	0.1212	-0.0792	-0.0014	0.0018	0.0183	-0.0228
2	-2.73	0.03	0.0217	0.0008	0.0026	0.0369	0.1212	-0.0757	-0.0009	0.0008	0.0125	-0.0102
3	-2.07	0.03	0.0217	0.0008	0.0026	0.0369	0.1212	-0.0565	-0.0033	0.0085	0.0584	-0.1500
4	-1.44	0.02	0.0183	0.0009	0.0030	0.0442	0.1638	-0.0479	-0.0043	0.0160	0.0998	-0.3344
5	-0.87	0.01	0.0184	0.0012	0.0030	0.0652	0.1647	-0.0346	-0.0040	0.0182	0.1170	-0.5252
6	-0.32	0.03	0.0182	0.0005	0.0030	0.0302	0.1629	-0.0347	-0.0043	0.0188	0.1253	-0.5429
7	0.25	0.03	0.0143	0.0012	0.0048	0.0839	0.3337	-0.0347	-0.0021	0.0163	0.0605	-0.4708
8	0.79	0.04	0.0127	0.0004	0.0054	0.0669	0.4277	-0.0320	-0.0024	0.0202	0.0765	-0.6324
9	1.32	0.03	0.0112	0.0004	0.0038	0.0357	0.3421	-0.0251	-0.0032	0.0213	0.1275	-0.8501
10	1.87	0.03	0.0153	0.0004	0.0021	0.0261	0.1371	-0.0050	-0.0040	0.0251	0.8099	-5.0268
11	2.37	0.02	0.0180	0.0003	0.0031	0.0194	0.1721	-0.0026	-0.0054	0.0309	2.0766	-11.8976
12	2.87	0.04	0.0203	0.0000	0.0047	0.0025	0.2248	0.0166	-0.0068	0.0391	-0.4126	2.3573
13	3.35	0.06	0.0201	0.0003	0.0053	0.0174	0.2636	0.0295	-0.0076	0.0437	-0.2576	1.4824
14	3.86	0.03	0.0193	0.0000	0.0067	0.0026	0.3488	0.0589	-0.0095	0.0532	-0.1613	0.9037
15	4.34	0.04	0.0177	-0.0003	0.0095	-0.0169	0.5366	0.0716	-0.0105	0.0590	-0.1473	0.8244
16	4.81	0.01	0.0203	-0.0008	0.0105	-0.0419	0.5155	0.0864	-0.0106	0.0696	-0.1232	0.8054
17	5.27	0.0	0.0241	-0.0008	0.0093	-0.0353	0.3872	0.1160	-0.0126	0.0783	-0.1090	0.6755
18	5.77	0.0	0.0279	-0.0009	0.0083	-0.0340	0.2974	0.1358	-0.0137	0.0848	-0.1009	0.6248
19	6.22	0.0	0.0290	-0.0015	0.0121	-0.0517	0.4160	0.1612	-0.0154	0.0966	-0.0955	0.5993
20	6.69	0.02	0.0274	-0.0013	0.0115	-0.0568	0.5035	0.1876	-0.0149	0.1036	-0.0794	0.5523
21	7.16	0.01	0.0259	-0.0011	0.0104	-0.0427	0.3853	0.1967	-0.0156	0.1113	-0.0793	0.5661
22	7.64	0.02	0.0252	-0.0019	0.0132	-0.0754	0.5237	0.2366	-0.0174	0.1221	-0.0737	0.5162
23	8.06	0.0	0.0356	-0.0014	0.0121	-0.0534	0.3389	0.2599	-0.0195	0.1287	-0.0750	0.4952
24	8.50	0.05	0.0309	-0.0024	0.0145	-0.0793	0.4691	0.2685	-0.0197	0.1369	-0.0735	0.5101
25	8.96	0.06	0.0372	-0.0023	0.0150	-0.0632	0.4031	0.3016	-0.0213	0.1454	-0.0706	0.4820
26	9.37	0.01	0.0357	-0.0027	0.0157	-0.0736	0.4286	0.3311	-0.0200	0.1523	-0.0605	0.4600
27	9.79	0.03	0.0357	-0.0028	0.0181	-0.0723	0.4676	0.3639	-0.0198	0.1608	-0.0545	0.4417
28	10.22	0.0	0.0306	-0.0021	0.0154	-0.0702	0.5031	0.3764	-0.0186	0.1654	-0.0495	0.4395
29	10.63	0.07	0.0215	-0.0024	0.0201	-0.1139	0.4332	0.3923	-0.0183	0.1743	-0.0468	0.4443
30	11.06	0.06	0.0358	-0.0024	0.0178	-0.0670	0.4980	0.4189	-0.0191	0.1812	-0.0457	0.4325
31	11.48	0.09	0.0308	-0.0020	0.0210	-0.0409	0.6806	0.4327	-0.0197	0.1841	-0.0444	0.4254
32	11.97	0.03	0.0254	-0.0024	0.0191	-0.0464	0.7505	0.4434	-0.0189	0.1497	-0.0426	0.4279
33	12.26	0.04	0.0309	-0.0027	0.0211	-0.0874	0.6827	0.4798	-0.0194	0.2019	-0.0405	0.4207
34	12.62	0.03	0.0429	-0.0026	0.0236	-0.0606	0.5500	0.5234	-0.0208	0.2104	-0.0398	0.4017
35	12.98	0.04	0.0472	-0.0027	0.0210	-0.0583	0.4455	0.5422	-0.0221	0.2148	-0.0407	0.3961
36	13.36	0.02	0.0275	-0.0032	0.0230	-0.0609	0.4380	0.5615	-0.0211	0.2182	-0.0377	0.3886
37	13.72	0.01	0.0542	-0.0032	0.0260	-0.0590	0.4790	0.5846	-0.0229	0.2260	-0.0392	0.3866
38	14.12	0.03	0.0410	-0.0031	0.0262	-0.0756	0.6381	0.5430	-0.0212	0.2309	-0.0358	0.3894
39	14.48	0.02	0.0410	-0.0030	0.0262	-0.0732	0.6381	0.6053	-0.0204	0.2354	-0.0337	0.3889
40	14.83	0.02	0.0334	-0.0027	0.0219	-0.0823	0.6466	0.6246	-0.0204	0.2389	-0.0327	0.3825
41	15.21	0.0	0.0578	-0.0036	0.0249	-0.0631	0.4301	0.6488	-0.0208	0.2457	-0.0316	0.3730
42	15.59	0.02	0.0406	-0.0035	0.0259	-0.0586	0.4773	0.6683	-0.0215	0.2508	-0.0322	0.3757
43	15.94	0.03	0.0629	-0.0035	0.0276	-0.0564	0.4381	0.6914	-0.0210	0.2540	-0.0304	0.3673
44	16.30	0.0	0.0625	-0.0035	0.0281	-0.0568	0.4500	0.7100	-0.0196	0.2575	-0.0276	0.3626
45	16.64	0.01	0.0594	-0.0027	0.0285	-0.0454	0.4797	0.7122	-0.0192	0.2627	-0.0270	0.3689
46	16.98	0.03	0.0528	-0.0027	0.0286	-0.0411	0.5415	0.7188	-0.0192	0.2651	-0.0267	0.3688

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 Pnt CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 62 1.05 1.7 0.0 R2W1F12 15.400 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF3	CM3	CMJ	XCMF3	YCPF3	CNF4	CM4	CM6	XCPF4	YCPF4
47	17.32	0.0	0.0508	-0.0026	0.0262	-0.0517	0.5163	0.7423	-0.0179	0.2699	-0.0242	0.3637
48	17.67	-0.02	0.0632	-0.0027	0.0275	-0.0477	0.4345	0.7697	-0.0186	0.2729	-0.0242	0.3545
49	17.99	0.02	0.0609	-0.0025	0.0322	-0.0419	0.5286	0.7921	-0.0180	0.2870	-0.0227	0.3561
50	18.35	-0.01	0.0586	-0.0021	0.0305	-0.0358	0.5209	0.8195	-0.0184	0.2844	-0.0224	0.3470
51	18.66	0.02	0.0650	-0.0020	0.0311	-0.0308	0.4778	0.8363	-0.0178	0.2901	-0.0213	0.3468
52	19.02	0.01	0.0706	-0.0017	0.0330	-0.0241	0.4678	0.8461	-0.0179	0.2946	-0.0212	0.3482
53	19.36	0.03	0.0718	-0.0016	0.0310	-0.0223	0.4321	0.8460	-0.0180	0.2993	-0.0209	0.3464
54	19.70	0.03	0.0708	-0.0016	0.0331	-0.0226	0.4674	0.8442	-0.0178	0.3045	-0.0200	0.3405
55	20.03	0.01	0.0654	-0.0011	0.0311	-0.0176	0.4754	0.9111	-0.0177	0.3068	-0.0195	0.3367
56	20.36	-0.01	0.0641	-0.0011	0.0349	-0.0132	0.4199	0.9447	-0.0165	0.3115	-0.0175	0.3297
57	20.71	-0.01	0.0748	-0.0012	0.0367	-0.0159	0.4652	0.9600	-0.0165	0.3147	-0.0172	0.3320
58	21.06	0.02	0.0810	-0.0012	0.0381	-0.0154	0.4703	0.9802	-0.0171	0.3235	-0.0175	0.3301
59	21.41	-0.02	0.0890	-0.0010	0.0351	-0.0118	0.3950	1.0069	-0.0179	0.3230	-0.0178	0.3208
60	21.75	0.02	0.0844	-0.0010	0.0362	-0.0124	0.4263	1.0099	-0.0189	0.3288	-0.0187	0.3256
61	22.10	-0.02	0.0941	-0.0012	0.0434	-0.0128	0.4614	1.0245	-0.0199	0.3317	-0.0194	0.3231
62	22.45	-0.01	0.0863	-0.0006	0.0397	-0.0075	0.4607	1.0286	-0.0204	0.3322	-0.0199	0.3229
63	22.76	0.01	0.0888	-0.0009	0.0407	-0.0107	0.4542	1.0340	-0.0208	0.3333	-0.0202	0.3224
64	23.09	-0.01	0.0941	-0.0006	0.0412	-0.0064	0.4597	1.0538	-0.0205	0.3371	-0.0194	0.3199
65	23.41	-0.02	0.0888	-0.0003	0.0349	-0.0034	0.3429	1.0509	-0.0208	0.3351	-0.0198	0.3188
66	23.74	-0.03	0.0865	0.0003	0.0396	-0.0035	0.4581	1.0536	-0.0199	0.3372	-0.0184	0.3200
67	24.06	-0.02	0.1038	0.0008	0.0387	0.0077	0.3727	1.0610	-0.0196	0.3364	-0.0185	0.3171
68	24.42	-0.02	0.1122	0.0004	0.0406	0.0040	0.3617	1.0892	-0.0204	0.3397	-0.0187	0.3119
69	24.76	-0.03	0.1144	0.0008	0.0429	0.0074	0.3752	1.0991	-0.0206	0.3422	-0.0187	0.3114
70	25.07	-0.02	0.1182	0.0016	0.0425	0.0135	0.3544	1.1032	-0.0223	0.3445	-0.0202	0.3123
71	25.38	-0.03	0.1307	0.0012	0.0428	0.0096	0.3279	1.1178	-0.0216	0.3476	-0.0194	0.3109
72	25.73	-0.02	0.1465	0.0020	0.0497	0.0136	0.3394	1.1353	-0.0212	0.3506	-0.0187	0.3088
73	26.04	-0.01	0.1394	0.0012	0.0435	0.0090	0.3124	1.1326	-0.0197	0.3506	-0.0174	0.3096
74	26.35	-0.03	0.1358	0.0016	0.0445	0.0121	0.3241	1.1428	-0.0202	0.3518	-0.0177	0.3078
75	26.71	-0.02	0.1288	0.0012	0.0383	0.0093	0.2975	1.1667	-0.0191	0.3553	-0.0164	0.3045
76	26.98	-0.03	0.1336	0.0012	0.0415	0.0094	0.3108	1.1730	-0.0192	0.3582	-0.0164	0.3053
77	27.29	-0.04	0.1290	0.0016	0.0446	0.0128	0.3456	1.2091	-0.0179	0.3642	-0.0148	0.3012
78	27.60	-0.03	0.1277	0.0014	0.0409	0.0149	0.3207	1.2056	-0.0186	0.3652	-0.0154	0.3029
79	27.94	-0.04	0.1186	0.0008	0.0345	0.0067	0.3332	1.2603	-0.0166	0.3715	-0.0132	0.2948
80	28.22	-0.03	0.1399	0.0018	0.0435	0.0132	0.3111	1.2561	-0.0163	0.3752	-0.0130	0.2987
81	28.53	-0.05	0.1425	0.0025	0.0396	0.0179	0.2778	1.2652	-0.0154	0.3758	-0.0122	0.2970
82	28.86	-0.05	0.1323	0.0022	0.0408	0.0166	0.3083	1.2876	-0.0135	0.3777	-0.0105	0.2934
83	29.17	-0.02	0.1252	0.0016	0.0393	0.0130	0.3194	1.3072	-0.0116	0.3849	-0.0089	0.2944
84	29.50	-0.04	0.1458	0.0026	0.0407	0.0178	0.2740	1.3249	-0.0098	0.3872	-0.0074	0.2914
85	29.80	-0.02	0.1421	0.0026	0.0416	0.0197	0.2931	1.3489	-0.0089	0.3898	-0.0066	0.2890
86	30.15	0.0	0.1327	0.0025	0.0408	0.0197	0.3076	1.3619	-0.0105	0.3957	-0.0077	0.2906
87	30.45	-0.03	0.1271	0.0025	0.0389	0.0201	0.3065	1.3721	-0.0096	0.3951	-0.0070	0.2880
88	30.77	-0.04	0.1434	0.0035	0.0396	0.0248	0.2760	1.3650	-0.0088	0.3953	-0.0065	0.2896

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	63	1.10	1.7	0.0	M21P12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAP	XCP		
1	-2.65	0.03	-0.6447	0.2337	0.1189	0.0055	0.0220	0.4268	-0.3625		
2	-2.03	0.02	-0.5136	0.1852	0.1347	-0.0476	0.0240	0.4291	-0.3605		
3	-1.40	0.04	-0.3002	0.0657	0.1906	0.0911	0.0190	0.4176	-0.2145		
4	-0.80	0.05	-0.1612	0.1297	0.1547	0.0714	0.0210	0.4339	-0.4045		
5	-0.27	0.04	-0.0495	0.1333	0.1827	0.0022	0.0150	0.4377	-2.6929		
6	0.29	0.06	0.1045	0.1097	0.2444	0.0518	0.0230	0.4304	1.0498		
7	0.83	0.02	0.2203	0.0720	0.2046	0.0704	0.0210	0.4219	0.3295		
8	1.35	0.02	0.3614	0.0350	0.2360	0.0536	0.0270	0.4217	0.0970		
9	1.92	0.05	0.5420	0.0441	0.1409	0.0267	0.0180	0.4245	0.0813		
10	2.40	0.03	0.6479	-0.0082	0.1411	0.0275	0.0220	0.4195	-0.0127		
11	2.90	-0.01	0.7251	-0.0263	0.0671	0.1040	0.0320	0.4309	-0.0367		
12	3.39	0.05	0.9248	-0.1058	0.1447	0.0744	0.0270	0.4190	-0.1155		
13	3.89	0.01	1.0639	-0.1896	0.0246	0.0046	0.0310	0.4099	-0.1782		
14	4.37	0.02	1.2626	-0.2404	0.1272	0.0019	0.0240	0.4171	-0.2351		
15	4.85	0.03	1.4106	-0.3871	0.0377	-0.0154	0.0320	0.4063	-0.2744		
16	5.32	0.06	1.5577	-0.5243	0.0721	0.0430	0.0290	0.4146	-0.3390		
17	5.78	0.01	1.7249	-0.7060	0.0507	0.1570	0.0380	0.4236	-0.4081		
18	6.27	0.03	1.9187	-0.8245	0.1255	0.0053	0.0270	0.4149	-0.4797		
19	6.72	0.05	2.0722	-0.9804	0.2527	0.1052	0.0240	0.4339	-0.4452		
20	7.20	0.05	2.1893	-1.0873	0.1663	-0.0078	0.0280	0.4415	-0.4466		
21	7.66	0.04	2.3446	-1.2437	0.2971	-0.0629	0.0260	0.4390	-0.5383		
22	8.11	0.04	2.4982	-1.3567	0.1018	-0.0595	0.0320	0.4416	-0.5431		
23	8.54	0.0	2.6222	-1.4983	0.1053	0.0406	0.0310	0.4581	-0.5714		
24	9.00	0.05	2.8469	-1.7790	0.1149	0.0551	0.0310	0.4535	-0.6249		
25	9.40	0.0	2.9600	-1.8816	0.1336	0.0220	0.0310	0.4398	-0.6342		
26	9.83	0.01	3.0800	-2.0583	0.1832	-0.0025	0.0350	0.4436	-0.6683		
27	10.26	-0.02	3.2335	-2.1662	0.0259	0.0207	0.0250	0.4471	-0.6694		
28	10.68	0.0	3.4478	-2.3913	0.0385	0.0401	0.0380	0.4271	-0.6936		
29	11.09	0.03	3.5555	-2.6071	0.1378	0.0081	0.0300	0.4266	-0.7332		
30	11.48	0.03	3.7181	-2.8757	0.0479	-0.1380	0.0300	0.4156	-0.7196		
31	11.90	0.06	3.8188	-2.8366	0.2099	0.0151	0.0220	0.4195	-0.7428		
32	12.27	0.03	3.9832	-2.9458	0.1864	-0.0847	0.0270	0.4163	-0.7396		
33	12.67	0.01	4.1455	-3.0840	-0.0621	0.0009	0.0320	0.4329	-0.7368		
34	13.01	0.02	4.3149	-3.2543	0.0249	-0.0089	0.0240	0.4167	-0.7553		
35	13.34	0.02	4.4236	-3.3866	0.0188	0.1067	0.0320	0.4200	-0.7655		
36	13.77	0.04	4.5413	-3.4500	0.2107	0.0450	0.0310	0.4154	-0.7524		
37	14.16	0.02	4.7137	-3.6478	0.1406	-0.0578	0.0350	0.4025	-0.7740		
38	14.50	0.03	4.8474	-3.7407	0.1398	0.0043	0.0310	0.4054	-0.7733		
39	14.87	0.0	5.0841	-4.0222	0.0106	-0.0268	0.0390	0.4949	-0.7913		
40	15.23	0.04	5.1341	-4.0832	0.0014	0.1564	0.0440	0.4001	-0.7914		
41	15.62	0.04	5.3789	-4.2484	0.1751	0.1498	0.0430	0.3994	-0.7992		
42	15.98	-0.01	5.4643	-4.3554	0.0010	0.0656	0.0310	0.3970	-0.7971		
43	16.30	0.04	5.6524	-4.5247	0.0426	0.1713	0.0380	0.3930	-0.8005		
44	16.64	0.02	5.7088	-4.6487	0.0707	0.1540	0.0290	0.3960	-0.8143		
45	16.97	0.0	3.8546	-1.9664	0.1235	0.0130	0.0290	0.3930	-0.5103		
46	17.35	0.0	6.0649	-4.8643	0.1085	-0.0119	0.0160	0.3995	-0.8014		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFICIS DATA

FIRST PART WACH WKT0-6		PHI	CUMF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	63 1.10 1.7	0.0	022112	15.400	0	0	0	0	FIXED
POINT	ALPHA	HFTA	CN	CLM	CT	CLN	CLL	CAF	XCP
47	17.68	0.01	6.1732	-5.0509	0.2014	-0.0170	0.0040	0.1943	-0.8182
48	18.01	-0.01	6.2976	-5.2121	0.2012	-0.1547	0.0030	0.3821	-0.8276
49	18.34	0.0	6.4574	-5.2658	0.0443	0.1260	0.0150	0.3876	-0.4283
50	18.71	0.0	6.6179	-5.5126	-0.0137	-0.0078	0.0070	0.3799	-0.8330
51	19.03	0.03	6.7432	-5.6740	0.1131	0.1706	0.0030	0.3745	-0.8414
52	19.38	0.06	6.8907	-5.8035	0.1780	0.1458	0.0040	0.3532	-0.8422
53	19.73	0.04	7.0470	-6.0003	0.0796	0.0865	0.0030	0.3370	-0.8515
54	20.05	-0.03	7.1193	-6.0525	0.0211	0.1164	0.0010	0.3378	-0.8502
55	20.38	0.01	7.3255	-6.2103	-0.0062	0.1537	-0.0020	0.3511	-0.8478
56	20.73	0.0	7.4209	-6.3528	0.0311	0.2994	-0.0090	0.3506	-0.8561
57	21.09	0.0	7.5716	-6.4478	0.0377	0.1942	-0.0140	0.3504	-0.8516
58	21.45	0.02	7.6836	-6.3640	0.0038	0.3646	-0.0010	0.3549	-0.8290
59	21.78	-0.01	7.8431	-6.5947	-0.0327	0.2010	-0.0170	0.3464	-0.8409
60	22.13	0.0	7.9517	-6.6569	-0.0539	0.1494	-0.0170	0.3439	-0.8372
61	22.47	-0.02	8.0915	-6.6358	-0.0444	0.1501	-0.0170	0.3403	-0.8201
62	22.80	0.01	8.2350	-6.6928	0.1407	0.1160	-0.0400	0.3342	-0.8126
63	23.15	-0.02	8.4338	-6.6920	0.0057	0.1180	-0.0430	0.3339	-0.7935
64	23.43	-0.03	8.4731	-6.6980	0.0427	0.1382	-0.0410	0.3143	-0.7905
65	23.77	-0.04	8.6495	-6.7530	-0.0061	0.1245	-0.0470	0.3285	-0.7407
66	24.10	-0.01	8.7357	-6.8046	0.1326	0.2553	-0.0520	0.3186	-0.7789
67	24.45	-0.04	8.9355	-6.8285	0.0591	0.0443	-0.0550	0.3274	-0.7642
68	24.77	-0.03	9.0948	-6.8325	0.0810	0.2376	-0.0540	0.3294	-0.7513
69	25.13	-0.03	9.2324	-6.8901	0.0969	0.0163	-0.0800	0.3280	-0.7463
70	25.42	-0.01	9.3805	-6.9745	0.1696	0.0945	-0.0890	0.3321	-0.7435
71	25.74	-0.03	9.5326	-6.9774	0.0651	0.1178	-0.0790	0.3320	-0.7320
72	26.08	-0.04	9.6506	-6.9377	0.0037	0.1432	-0.0860	0.3153	-0.7189
73	26.36	-0.03	9.6425	-7.0204	0.0271	0.1940	-0.0920	0.3129	-0.7273
74	26.73	-0.02	9.9347	-7.0441	0.0830	0.1708	-0.0950	0.3175	-0.7128
75	27.00	-0.03	10.0389	-7.1033	0.0062	0.2333	-0.0900	0.3150	-0.7076
76	27.30	-0.02	10.1065	-7.1270	-0.0120	0.4757	-0.0880	0.3204	-0.7052
77	27.63	-0.03	10.4670	-7.1474	-0.0239	0.4234	-0.0850	0.3110	-0.6933
78	27.98	-0.03	10.5186	-7.2780	-0.0151	0.3841	-0.0880	0.3133	-0.6919
79	28.24	-0.03	10.6122	-7.3721	-0.1045	0.5692	-0.0830	0.3012	-0.6947
80	28.60	-0.01	10.8542	-7.3689	-0.1514	0.7456	-0.0900	0.3051	-0.6789
81	28.84	-0.01	10.8844	-7.3477	-0.1454	0.4720	-0.0830	0.2445	-0.6745
82	29.20	-0.03	11.0735	-7.4569	-0.3917	1.1494	-0.0540	0.2443	-0.6734
83	29.43	-0.01	11.1020	-7.5559	-0.2465	1.1809	-0.0800	0.2413	-0.6645
84	29.85	0.02	11.4410	-7.0445	-0.0525	0.7444	-0.0940	0.2452	-0.6703
85	30.15	-0.03	11.4157	-7.7001	-0.3522	1.3754	-0.0940	0.2444	-0.6607
86	30.44	-0.02	11.8662	-7.8484	-0.3190	1.1325	-0.0970	0.2353	-0.6648
87	30.77	-0.01	11.8701	-7.9583	-0.4219	1.5746	-0.0750	0.2225	-0.6704

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	HX10-6	PH1	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6.3	1.10	1.7	0.0	M2W12	15.400	0	0	0	FIXED		
POINT	ALPHA	RFTA	CNF1	CM1	CM1	XCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2
1	-2.65	0.03	0.0391	0.0	-0.0077	0.0	-0.1962	-0.0442	0.0036	-0.0327	-0.0747	0.6774
2	-2.03	0.02	0.0431	0.0001	-0.0079	0.0035	-0.1442	-0.0319	0.0027	-0.0257	-0.0690	0.8066
3	-1.40	0.04	0.0386	-0.0002	-0.0065	-0.0057	-0.1694	-0.0172	0.0008	-0.0179	-0.0494	1.0425
4	-0.80	0.05	0.0428	0.0	-0.0070	0.0	-0.1644	-0.0126	0.0005	-0.0161	-0.0436	1.2777
5	-0.27	0.09	0.0402	0.0	-0.0063	0.0	-0.1568	-0.0020	0.0002	-0.0128	-0.1250	6.3832
6	0.29	0.06	0.0421	-0.0003	-0.0057	-0.0071	-0.1347	0.0061	0.0	-0.0095	0.0	-1.5520
7	0.83	0.02	0.0421	-0.0003	-0.0057	-0.0071	-0.1347	0.0163	0.0001	-0.0048	0.0092	-0.2926
8	1.35	0.02	0.0420	-0.0004	-0.0056	-0.0095	-0.1335	0.0219	-0.0002	-0.0012	-0.0114	-0.0549
9	1.92	0.05	0.0435	-0.0002	-0.0054	-0.0046	-0.1335	0.0330	-0.0010	0.0008	-0.0303	0.0241
10	2.40	0.03	0.0459	-0.0002	-0.0054	-0.0054	-0.1178	0.0440	-0.0017	0.0085	-0.0348	0.1923
11	2.90	-0.01	0.0448	-0.0001	-0.0051	-0.0033	-0.1132	0.0523	-0.0026	0.0119	-0.0507	0.2281
12	3.39	0.05	0.0497	-0.0001	-0.0048	-0.0030	-0.0974	0.0664	-0.0034	0.0178	-0.0519	0.2685
13	3.89	0.01	0.0446	-0.0004	-0.0061	-0.0090	-0.1376	0.0757	-0.0043	0.0223	-0.0568	0.2949
14	4.37	0.02	0.0551	-0.0007	-0.0051	-0.0127	-0.0933	0.0922	-0.0055	0.0293	-0.0602	0.3180
15	4.85	0.03	0.0568	-0.0005	-0.0056	-0.0048	-0.0941	0.1065	-0.0066	0.0353	-0.0620	0.3313
16	5.32	0.06	0.0567	-0.0005	-0.0047	-0.0088	-0.0830	0.1264	-0.0077	0.0442	-0.0613	0.3498
17	5.76	0.01	0.0524	-0.0004	-0.0076	-0.0076	-0.1458	0.1417	-0.0088	0.0514	-0.0621	0.3629
18	6.27	0.03	0.0592	-0.0006	-0.0067	-0.0110	-0.1127	0.1631	-0.0102	0.0590	-0.0628	0.3620
19	6.77	0.05	0.0619	-0.0005	-0.0070	-0.0089	-0.1127	0.1806	0.0112	0.0671	-0.0623	0.3714
20	7.20	0.05	0.0594	-0.0002	-0.0075	-0.0035	-0.1331	0.2040	-0.0127	0.0778	-0.0625	0.3813
21	7.66	0.09	0.0624	-0.0002	-0.0072	-0.0040	-0.1148	0.2228	-0.0136	0.0871	-0.0613	0.3911
22	8.11	0.04	0.0600	-0.0002	-0.0077	-0.0042	-0.1285	0.2445	-0.0144	0.0924	-0.0591	0.3778
23	8.54	0.0	0.0588	-0.0002	-0.0071	-0.0043	-0.1209	0.2644	-0.0157	0.1027	-0.0594	0.3884
24	9.00	0.05	0.0584	0.0001	-0.0088	0.0026	-0.1514	0.2870	-0.0162	0.1099	-0.0566	0.3830
25	9.40	0.0	0.0605	0.0000	-0.0078	0.0008	-0.1296	0.3064	-0.0166	0.1187	-0.0542	0.3874
26	9.83	0.01	0.0603	0.0	-0.0077	0.0	-0.1278	0.3257	-0.0170	0.1238	-0.0523	0.3802
27	10.26	-0.02	0.0595	0.0003	-0.0069	0.0050	-0.1155	0.3531	-0.0185	0.1343	-0.0524	0.3802
28	10.63	0.0	0.0592	0.0001	-0.0068	0.0017	-0.1144	0.3756	-0.0186	0.1434	-0.0495	0.3817
29	11.09	0.03	0.0506	0.0007	-0.0041	0.0138	-0.1806	0.3950	-0.0192	0.1489	-0.0486	0.3770
30	11.48	0.03	0.0431	0.0002	-0.0073	0.0040	-0.1153	0.4017	-0.0197	0.1535	-0.0490	0.3820
31	11.90	0.06	0.0519	0.0008	-0.0062	0.0154	-0.1581	0.4190	-0.0202	0.1595	-0.0483	0.3807
32	12.27	0.03	0.0592	0.0004	-0.0061	0.0160	-0.1076	0.4382	-0.0215	0.1662	-0.0490	0.3793
33	12.67	0.01	0.0575	0.0013	-0.0067	0.0235	-0.1172	0.4592	-0.0222	0.1707	-0.0484	0.3718
34	13.01	0.02	0.0525	0.0013	-0.0071	0.0248	-0.1344	0.4711	-0.0217	0.1740	-0.0460	0.3778
35	13.39	0.02	0.0473	0.0017	-0.0045	0.0370	-0.2017	0.4850	-0.0221	0.1829	-0.0457	0.3771
36	13.77	0.04	0.0546	0.0014	-0.0067	0.0468	-0.1228	0.4952	-0.0222	0.1840	-0.0449	0.3716
37	14.14	0.02	0.0525	0.0020	-0.0040	0.0741	-0.1524	0.5104	-0.0218	0.1899	-0.0427	0.3720
38	14.50	0.03	0.0514	0.0024	-0.0040	0.0672	-0.1543	0.5259	-0.0221	0.1948	-0.0421	0.3705
39	14.87	0.0	0.0516	0.0023	-0.0085	0.0454	-0.1649	0.5447	-0.0217	0.2000	-0.0395	0.3638
40	15.23	0.04	0.0471	0.0025	-0.0080	0.0444	-0.1543	0.5663	0.0214	0.2047	-0.0379	0.3615
41	15.62	0.04	0.0441	0.0028	-0.0098	0.0570	-0.2004	0.5886	-0.0211	0.2123	-0.0360	0.3618
42	15.94	-0.01	0.0493	0.0028	-0.0106	0.0578	-0.2145	0.5943	-0.0206	0.2126	-0.0347	0.3578
43	16.30	0.04	0.0475	0.0032	-0.0119	0.0674	-0.2499	0.6235	-0.0206	0.2204	-0.0330	0.3534
44	16.64	0.02	0.0415	0.0032	-0.0138	0.0771	-0.3318	0.6431	-0.0201	0.2243	-0.0313	0.3488
45	16.97	0.0	0.0448	0.0037	-0.0134	0.0826	-0.3074	0.6586	-0.0202	0.2292	-0.0307	0.3481
46	17.35	0.0	0.0439	0.0039	-0.0137	0.0888	-0.3114	0.6704	-0.0201	0.2324	-0.0300	0.3466

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	67	1.10	1.7	0.0	H2W1F12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CH1	XCMP1	YCPF1	CNF2	CM2	CH2	XCMP2	YCPF2
47	17.68	0.01	0.0440	0.0039	-0.0149	0.0886	-0.3395	0.6995	-0.0192	0.2388	-0.0274	0.3414
48	18.01	-0.01	0.0333	0.0039	-0.0180	0.1186	-0.5407	0.7184	-0.0189	0.2443	-0.0264	0.3399
49	18.34	0.0	0.0296	0.0039	-0.0190	0.1317	-0.6431	0.7350	-0.0196	0.2468	-0.0267	0.3359
50	18.71	0.0	0.0210	0.0034	-0.0208	0.1433	-0.9906	0.7540	-0.0174	0.2534	-0.0230	0.3339
51	19.03	0.03	0.0147	0.0030	-0.0202	0.2074	-1.3743	0.7748	-0.0168	0.2600	-0.0216	0.3335
52	19.38	0.06	0.0142	0.0029	-0.0203	0.1593	-1.1173	0.7949	-0.0156	0.2645	-0.0196	0.3327
53	19.73	0.04	0.0179	0.0029	-0.0176	0.1620	-0.9852	0.8049	-0.0150	0.2682	-0.0185	0.3311
54	20.05	-0.03	0.0142	0.0028	-0.0187	0.1971	-1.3147	0.8246	-0.0157	0.2724	-0.0190	0.3303
55	20.38	0.01	0.0162	0.0026	-0.0172	0.1636	-1.0618	0.8415	-0.0156	0.2740	-0.0183	0.3277
56	20.73	0.0	0.0106	0.0027	-0.0212	0.2594	-1.9970	0.8766	-0.0157	0.2858	-0.0179	0.3260
57	21.09	0.0	0.0117	0.0028	-0.0207	0.2265	-1.7643	0.8430	-0.0156	0.2872	-0.0177	0.3253
58	21.45	0.02	0.0004	0.0044	-0.0271	11.1230	-67.6668	0.8959	-0.0155	0.2906	-0.0173	0.3244
59	21.78	-0.01	0.0132	0.0034	-0.0229	0.2613	-1.7350	0.9157	-0.0153	0.2951	-0.0168	0.3223
60	22.13	0.0	0.0083	0.0040	-0.0257	0.4879	-3.1005	0.9244	-0.0152	0.2989	-0.0165	0.3234
61	22.47	-0.02	0.0041	0.0044	-0.0261	1.0852	-6.7141	0.9349	-0.0157	0.3019	-0.0168	0.3229
62	22.80	0.01	0.0031	0.0047	-0.0255	1.5149	-8.2152	0.9507	-0.0158	0.3047	-0.0166	0.3205
63	23.15	-0.02	0.0021	0.0046	-0.0281	2.2139	-13.3811	0.9555	-0.0167	0.3069	-0.0175	0.3212
64	23.43	-0.03	-0.0039	0.0046	-0.0299	-1.1793	7.6665	0.9499	-0.0192	0.3051	-0.0203	0.3212
65	23.77	-0.04	-0.0046	0.0041	-0.0300	-0.9020	6.5289	0.9683	-0.0182	0.3042	-0.0188	0.3182
66	24.10	-0.01	-0.0178	0.0039	-0.0367	-0.2191	2.0636	0.9671	-0.0198	0.3049	-0.0205	0.3194
67	24.45	-0.04	-0.0126	0.0031	-0.0353	-0.2658	2.8015	0.9759	-0.0190	0.3093	-0.0195	0.3169
68	24.77	-0.03	-0.0346	0.0035	-0.0449	-0.1011	1.2985	0.9710	-0.0192	0.3085	-0.0198	0.3177
69	25.13	-0.03	-0.0376	0.0024	-0.0449	-0.0638	1.1949	0.9837	-0.0195	0.3092	-0.0199	0.3143
70	25.42	-0.01	-0.0513	0.0021	-0.0475	-0.0419	0.9258	0.9845	-0.0196	0.3114	-0.0199	0.3163
71	25.78	-0.03	-0.0608	0.0007	-0.0482	-0.0115	0.7921	0.9780	-0.0234	0.3109	-0.0239	0.3179
72	26.08	-0.04	-0.0608	0.0006	-0.0492	-0.0107	0.8085	0.9817	-0.0303	0.3113	-0.0309	0.3171
73	26.36	-0.03	-0.0664	0.0006	-0.0502	-0.0126	0.7564	0.9881	-0.0256	0.3117	-0.0259	0.3154
74	26.73	-0.02	-0.0616	0.0001	-0.0490	-0.0016	0.7959	0.9927	-0.0267	0.3152	-0.0269	0.3175
75	27.00	-0.03	-0.0724	-0.0004	-0.0491	0.0062	0.6785	1.0065	-0.0281	0.3172	-0.0279	0.3151
76	27.30	-0.02	-0.0809	-0.0022	-0.0527	0.0278	0.6521	1.0089	-0.0275	0.3179	-0.0273	0.3151
77	27.63	-0.03	-0.0855	-0.0040	-0.0489	0.0561	0.5718	1.0105	-0.0276	0.3187	-0.0273	0.3153
78	27.98	-0.03	-0.0784	-0.0056	-0.0439	0.0717	0.4578	1.0260	-0.0273	0.3218	-0.0266	0.3136
79	28.24	-0.03	-0.0844	-0.0061	-0.0430	0.0696	0.4871	1.0343	-0.0270	0.3244	-0.0261	0.3136
80	28.60	-0.01	-0.0913	-0.0108	-0.0389	0.1183	0.4263	1.0392	-0.0273	0.3259	-0.0263	0.3136
81	28.89	-0.01	-0.0945	-0.0126	-0.0370	0.1333	0.3914	1.0407	-0.0273	0.3247	-0.0263	0.3120
82	29.20	-0.03	-0.0810	-0.0136	-0.0294	0.1679	0.3653	1.0424	-0.0274	0.3259	-0.0265	0.3127
83	29.53	-0.01	-0.1244	-0.0183	-0.0375	0.1475	0.3019	1.0444	-0.0273	0.3285	-0.0261	0.3145
84	29.85	0.02	-0.1098	-0.0168	-0.0365	0.1530	0.3323	1.0645	-0.0285	0.3331	-0.0268	0.3129
85	30.15	-0.03	-0.1307	-0.0201	-0.0377	0.1544	0.2894	1.0771	-0.0284	0.3353	-0.0264	0.3113
86	30.49	-0.02	-0.1199	-0.0179	-0.0364	0.1497	0.3040	1.0804	-0.0284	0.3322	-0.0263	0.3074
87	30.77	-0.01	-0.1739	-0.0228	-0.0445	0.1311	0.2562	1.0640	-0.0296	0.3276	-0.0278	0.3079

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	63	1.10	1.7	0.0	B2W1P12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CONF3	CH3	CH3	XCPF3	YCPF3	CONF4	CH4	CH4	XCPF4	YCPF4
1	-2.65	0.03	0.0284	0.0011	-0.0002	0.0349	-0.0071	-0.0453	-0.0001	-0.0039	0.0016	0.0405
2	-2.03	0.02	0.0288	0.0011	-0.0002	0.0399	-0.0071	-0.0802	-0.0012	0.0028	0.0150	-0.0346
3	-1.40	0.04	0.0188	0.0011	0.0009	0.0612	0.0460	-0.0617	-0.0020	0.0089	0.0324	-0.1449
4	-0.80	0.05	0.0225	0.0011	-0.0001	0.0511	-0.0036	-0.0515	-0.0023	0.0083	0.0456	-0.1619
5	-0.27	0.04	0.0188	0.0011	0.0009	0.0612	0.0460	-0.0354	-0.0023	0.0101	0.0664	-0.2854
6	0.29	0.06	0.0188	0.0011	0.0009	0.0612	0.0460	-0.0467	-0.0024	0.0155	0.0514	-0.3327
7	0.83	0.02	0.0125	0.0011	0.0010	0.0920	0.0772	-0.0231	-0.0020	0.0170	0.0865	-0.7174
8	1.35	0.02	0.0124	0.0004	0.0010	0.0665	0.0832	-0.0214	-0.0027	0.0221	0.1285	-1.0313
9	1.92	0.05	0.0187	0.0006	0.0009	0.0428	0.0498	-0.0156	-0.0043	0.0274	0.2756	-1.7565
10	2.40	0.03	0.0122	0.0004	0.0011	0.0328	0.0673	-0.0031	-0.0051	0.0325	1.6449	-10.4732
11	2.90	-0.01	0.0023	0.0008	0.0022	0.3695	0.4619	0.0095	-0.0060	0.0370	-0.6315	3.8911
12	3.39	0.05	0.0182	0.0003	-0.0006	0.0165	-0.0349	0.0219	-0.0072	0.0427	-0.3310	1.9497
13	3.89	0.01	0.0075	0.0003	0.0041	0.0400	0.5465	0.0404	-0.0084	0.0507	-0.2079	1.2540
14	4.37	0.02	0.0195	-0.0006	0.0046	-0.0308	0.2358	0.0565	-0.0093	0.0554	-0.1646	0.9810
15	4.85	0.03	0.0184	-0.0008	0.0066	-0.0462	0.3604	0.0717	-0.0100	0.0633	-0.1401	0.8827
16	5.32	0.06	0.0117	-0.0008	0.0074	-0.0726	0.6324	0.0800	-0.0107	0.0719	-0.1344	0.8995
17	5.78	0.01	0.0083	-0.0004	0.0078	-0.1144	0.9356	0.1186	-0.0118	0.0818	-0.0999	0.6899
18	6.27	0.03	0.0268	-0.0017	0.0082	-0.0653	0.3071	0.1376	-0.0129	0.0878	-0.0941	0.6384
19	6.72	0.05	0.0167	-0.0018	0.0094	-0.1108	0.5608	0.1565	-0.0135	0.0940	-0.0866	0.6009
20	7.20	0.05	0.0167	-0.0018	0.0094	-0.1108	0.5608	0.1776	-0.0150	0.1065	-0.0844	0.5995
21	7.66	0.04	0.0260	-0.0022	0.0096	-0.0846	0.3678	0.2069	-0.0161	0.1134	-0.0780	0.5483
22	8.11	0.04	0.0154	-0.0018	0.0129	-0.1201	0.8397	0.2255	-0.0175	0.1206	-0.0776	0.5350
23	8.54	0.0	0.0248	-0.0027	0.0141	-0.0923	0.4742	0.2542	-0.0185	0.1306	-0.0730	0.5138
24	9.00	0.05	0.0332	-0.0027	0.0137	-0.0828	0.4115	0.2824	-0.0202	0.1395	-0.0698	0.4621
25	9.40	0.0	0.0240	-0.0027	0.0129	-0.1146	0.5374	0.2910	-0.0202	0.1451	-0.0694	0.4984
26	9.83	0.01	0.0228	-0.0032	0.0144	-0.1403	0.6534	0.3129	-0.0210	0.1532	-0.0672	0.4894
27	10.26	-0.02	0.0251	-0.0035	0.0175	-0.1414	0.6958	0.3415	-0.0217	0.1612	-0.0635	0.4720
28	10.68	0.0	0.0245	-0.0032	0.0131	-0.1085	0.4451	0.3772	-0.0219	0.1685	-0.0580	0.4467
29	11.09	0.03	0.0342	-0.0032	0.0173	-0.0950	0.5057	0.4086	-0.0219	0.1785	-0.0536	0.4367
30	11.48	0.03	0.0339	-0.0041	0.0235	-0.1224	0.6431	0.4279	-0.0223	0.1827	-0.0522	0.4269
31	11.90	0.06	0.0355	-0.0036	0.0209	-0.1014	0.5896	0.4370	-0.0221	0.1897	-0.0507	0.4341
32	12.27	0.03	0.0508	-0.0041	0.0216	-0.0817	0.4257	0.4668	-0.0226	0.1928	-0.0485	0.4131
33	12.67	0.01	0.0343	-0.0032	0.0235	-0.0947	0.6480	0.4852	-0.0237	0.2021	-0.0488	0.4165
34	13.01	0.02	0.0446	-0.0035	0.0242	-0.0716	0.4885	0.5069	-0.0232	0.2075	-0.0458	0.4093
35	13.34	0.02	0.0404	-0.0035	0.0216	-0.0688	0.4236	0.5331	-0.0236	0.2109	-0.0442	0.3955
36	13.77	0.04	0.0463	-0.0035	0.0234	-0.0640	0.4167	0.5560	-0.0233	0.2154	-0.0419	0.3873
37	14.14	0.02	0.0435	-0.0035	0.0244	-0.0810	0.6505	0.5645	-0.0228	0.2221	-0.0404	0.3934
38	14.50	0.03	0.0423	-0.0024	0.0212	-0.0413	0.6552	0.5934	-0.0228	0.2252	-0.0385	0.3792
39	14.87	0.0	0.0346	-0.0031	0.0254	-0.0743	0.6413	0.6030	-0.0226	0.2321	-0.0375	0.3849
40	15.23	0.04	0.0411	-0.0031	0.0238	-0.0554	0.4481	0.6279	-0.0217	0.2385	-0.0345	0.3799
41	15.62	0.04	0.0511	-0.0024	0.0277	-0.0547	0.5426	0.6505	-0.0217	0.2442	-0.0334	0.3755
42	15.98	-0.01	0.0642	-0.0030	0.0269	-0.0475	0.4189	0.6574	-0.0221	0.2447	-0.0337	0.3723
43	16.30	0.04	0.0526	-0.0025	0.0251	-0.0435	0.4777	0.6899	-0.0215	0.2499	-0.0312	0.3623
44	16.64	0.02	0.0513	-0.0025	0.0277	-0.0497	0.5398	0.6955	-0.0215	0.2546	-0.0309	0.3661
45	16.97	0.0	0.0634	-0.0021	0.0171	-0.0339	0.2701	0.7152	-0.0215	0.2544	-0.0301	0.3585
46	17.35	0.0	0.0646	-0.0024	0.0323	-0.0379	0.5004	0.7325	-0.0215	0.2619	-0.0294	0.3575

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	M10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
N	63	1.10	1.7	0.0	M2M1F12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CMF3	CM3	CM3	XCPF3	YCPF3	CMF4	CM4	CM4	XCPF4	YCPF4
47	17.48	0.01	0.0633	-0.0022	0.0329	-0.0342	0.5121	0.7579	-0.0211	0.2672	-0.0279	0.3526
48	18.01	-0.01	0.0679	-0.0024	0.0319	-0.0361	0.4702	0.7764	-0.0203	0.2739	-0.0261	0.3528
49	18.34	0.0	0.0718	-0.0008	0.0274	-0.0191	0.5366	0.7768	-0.0202	0.2770	-0.0260	0.3502
50	18.71	0.0	0.0724	-0.0020	0.0295	-0.0276	0.4078	0.8150	-0.0203	0.2819	-0.0249	0.3459
51	19.03	0.03	0.0566	-0.0016	0.0295	-0.0290	0.5198	0.8374	-0.0194	0.2877	-0.0232	0.3434
52	19.38	0.06	0.0640	-0.0021	0.0320	-0.0309	0.4700	0.8656	-0.0182	0.2937	-0.0211	0.3393
53	19.73	0.09	0.0758	-0.0019	0.0354	-0.0257	0.4665	0.8923	-0.0177	0.2967	-0.0199	0.3325
54	20.05	-0.03	0.0694	-0.0016	0.0299	-0.0238	0.4312	0.8900	-0.0183	0.2995	-0.0206	0.3365
55	20.38	0.01	0.0670	-0.0015	0.0344	-0.0231	0.5168	0.9255	-0.0188	0.3073	-0.0203	0.3320
56	20.73	0.0	0.0681	-0.0013	0.0264	-0.0191	0.3875	0.9380	-0.0203	0.3110	-0.0217	0.3315
57	21.09	0.0	0.0625	-0.0011	0.0359	-0.0176	0.5748	0.9586	-0.0204	0.3110	-0.0213	0.3245
58	21.45	0.02	0.0758	-0.0003	0.0284	-0.0046	0.3697	0.9649	-0.0189	0.3172	-0.0196	0.3288
59	21.78	-0.01	0.0797	-0.0010	0.0345	-0.0132	0.4298	0.9901	-0.0193	0.3203	-0.0195	0.3235
60	22.13	0.0	0.0949	-0.0005	0.0366	-0.0065	0.4310	1.0052	-0.0193	0.3242	-0.0192	0.3225
61	22.47	-0.02	0.0743	-0.0010	0.0364	-0.0134	0.4699	1.0047	-0.0193	0.3240	-0.0192	0.3225
62	22.80	0.01	0.0850	-0.0009	0.0421	-0.0106	0.4956	1.0237	-0.0191	0.3275	-0.0187	0.3199
63	23.15	-0.02	0.0898	-0.0005	0.0391	-0.0061	0.4357	1.0268	-0.0194	0.3290	-0.0189	0.3204
64	23.43	-0.03	0.1029	-0.0002	0.0444	-0.0019	0.4314	1.0406	-0.0199	0.3279	-0.0192	0.3152
65	23.77	-0.04	0.1015	-0.0005	0.0409	-0.0049	0.4032	1.0399	-0.0199	0.3310	-0.0192	0.3183
66	24.10	-0.01	0.0953	-0.0001	0.0409	-0.0016	0.4298	1.0401	-0.0205	0.3310	-0.0198	0.3182
67	24.45	-0.04	0.1142	-0.0003	0.0412	-0.0031	0.3612	1.0495	-0.0191	0.3323	-0.0182	0.3166
68	24.77	-0.03	0.1232	0.0004	0.0482	0.0032	0.3917	1.0627	-0.0200	0.3343	-0.0188	0.3146
69	25.13	-0.03	0.1164	0.0005	0.0483	0.0043	0.4136	1.0727	-0.0192	0.3337	-0.0179	0.3111
70	25.42	-0.01	0.1141	-0.0001	0.0513	-0.0007	0.3424	1.0891	-0.0210	0.3378	-0.0193	0.3102
71	25.78	-0.03	0.1323	0.0009	0.0490	0.0068	0.3703	1.1038	-0.0214	0.3434	-0.0194	0.3111
72	26.06	-0.04	0.1359	0.0016	0.0486	0.0121	0.3575	1.1015	-0.0234	0.3394	-0.0213	0.3082
73	26.36	-0.03	0.1357	0.0010	0.0466	0.0074	0.3583	1.1018	-0.0247	0.3394	-0.0225	0.3081
74	26.73	-0.02	0.1358	0.0012	0.0485	0.0092	0.3575	1.1080	-0.0261	0.3435	-0.0235	0.3100
75	27.00	-0.03	0.1259	0.0016	0.0435	0.0127	0.3459	1.1075	-0.0266	0.3465	-0.0241	0.3129
76	27.30	-0.02	0.1306	0.0016	0.0405	0.0127	0.3102	1.1271	-0.0263	0.3484	-0.0234	0.3091
77	27.63	-0.03	0.1359	0.0013	0.0486	0.0099	0.3575	1.1609	-0.0265	0.3506	-0.0228	0.3020
78	27.98	-0.03	0.1413	0.0015	0.0442	0.0113	0.3127	1.1695	-0.0269	0.3547	-0.0230	0.3033
79	28.24	-0.03	0.1349	0.0019	0.0449	0.0141	0.3332	1.1705	-0.0265	0.3557	-0.0227	0.3039
80	28.60	-0.01	0.1363	0.0022	0.0424	0.0165	0.3112	1.2182	-0.0233	0.3643	-0.0191	0.2991
81	28.84	-0.01	0.1365	0.0025	0.0423	0.0183	0.3098	1.2153	-0.0232	0.3623	-0.0191	0.2981
82	29.20	-0.03	0.1411	0.0021	0.0394	0.0152	0.2794	1.2342	-0.0210	0.3686	-0.0170	0.2986
83	29.43	-0.01	0.1478	0.0022	0.0447	0.0149	0.3028	1.2637	-0.0201	0.3711	-0.0159	0.2937
84	29.85	0.02	0.1365	0.0032	0.0430	0.0234	0.3149	1.2694	-0.0188	0.3758	-0.0148	0.2960
85	30.15	-0.03	0.1265	0.0017	0.0382	0.0138	0.3024	1.2822	-0.0193	0.3773	-0.0150	0.2943
86	30.49	-0.02	0.1476	0.0032	0.0422	0.0216	0.2859	1.3227	-0.0184	0.3860	-0.0139	0.2919
87	30.77	-0.01	0.1403	0.0034	0.0387	0.0246	0.2767	1.3354	-0.0180	0.3835	-0.0135	0.2872

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MAHTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	PK10-6	PM1	CONF	L	DEL1	DFL2	DEL3	DEL4	TRANSITION
6	6.0	U.S. 1.1	0.0	H2O F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	PLIA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	-19.89	0.0031	-0.0413	3.6720	-7.9335	-0.0140	0.4020	-29.4645	
2	0.01	-19.60	0.0544	-0.1601	3.5765	-8.0207	-0.0140	0.4106	-2.9441	
3	0.0	-18.84	-0.0065	-0.1329	3.6057	-7.4236	-0.0210	0.4108	20.4462	
4	0.01	-18.03	0.0296	-0.1374	3.5086	-7.8147	-0.0100	0.4476	-4.6432	
5	0.01	-17.14	0.0185	-0.1179	3.3765	-7.7646	-0.0200	0.4495	-6.3730	
6	0.01	-16.36	0.0179	-0.1460	3.2686	-7.7596	-0.0090	0.4443	-8.1598	
7	0.01	-15.51	0.0370	-0.1540	3.0791	-7.5293	0.0020	0.4734	-4.4000	
8	0.01	-14.72	0.0125	-0.1135	2.9806	-7.4454	0.0120	0.4564	-9.0800	
9	0.01	-13.87	0.0083	-0.0546	2.8516	-7.3278	-0.0060	0.4505	-6.5907	
10	0.02	-13.03	-0.0176	0.0206	2.7223	-7.2608	0.0070	0.4570	-1.1727	
11	0.01	-12.23	0.0102	-0.0873	2.6565	-7.1666	0.0070	0.4373	-8.5569	
12	0.01	-11.49	-0.0024	-0.0341	2.4774	-7.0577	0.0010	0.4369	12.1714	
13	0.01	-10.73	0.0026	-0.0446	2.4199	-6.9144	0.0030	0.4140	-36.4000	
14	0.01	-9.97	0.0105	-0.0277	2.3156	-6.8334	0.0030	0.4172	-2.6381	
15	0.01	-9.21	0.0154	-0.0441	2.2257	-6.7465	0.0020	0.4479	-2.7924	
16	0.01	-8.39	0.0105	-0.0637	2.1002	-6.5758	0.0040	0.4731	-6.0667	
17	0.01	-7.64	0.0301	-0.1421	2.0515	-6.5337	0.0100	0.4711	-4.7223	
18	0.01	-6.79	-0.0013	-0.0452	1.9047	-6.3164	0.0050	0.4507	65.5230	
19	0.01	-6.01	0.0181	-0.1413	1.8456	-6.3203	0.0070	0.4419	-7.8088	
20	0.01	-5.23	0.0166	-0.1462	1.8096	-6.1849	0.0110	0.4322	-8.8096	
21	0.01	-4.48	-0.0026	-0.0314	1.6671	-6.0774	0.0050	0.4172	12.0615	
22	0.01	-3.67	-0.0047	-0.0274	1.5469	-6.0042	0.0	0.4140	3.1977	
23	0.01	-2.87	0.0131	-0.0443	1.4487	-5.8907	0.0050	0.6479	-6.7435	
24	0.01	-2.09	-0.0123	-0.0574	1.4863	-5.9383	0.0020	0.6495	4.6976	
25	0.01	-1.29	0.0405	-0.2319	1.5006	-6.0113	0.0120	0.6447	-4.7814	
26	0.01	-0.50	0.0192	-0.1069	1.3867	-5.9459	0.0070	0.6794	-5.5667	
27	0.0	0.24	0.0712	-0.4106	1.3446	-6.0929	0.0350	0.6616	-5.7640	
28	0.0	1.01	0.0777	-0.4007	1.3053	-6.2059	0.0410	0.6622	-5.1580	
29	0.0	1.79	0.0830	-0.3961	1.4080	-6.5436	0.0310	0.6664	-4.7735	
30	0.0	2.55	0.0500	-0.3162	1.4572	-6.4305	0.0300	0.6671	-5.4517	
31	0.01	3.31	0.0440	-0.1911	1.3873	-7.0136	0.0130	0.6619	-6.6443	
32	0.01	4.05	0.0074	-0.1243	1.2760	-6.4094	0.0010	0.6572	-16.4054	
33	0.01	4.84	0.0060	-0.1004	1.2142	-6.4123	0.0050	0.6440	-16.7313	
34	0.01	5.66	0.0118	-0.1315	1.1439	-6.6409	0.0070	0.6314	-11.1454	
35	0.01	6.50	-0.0046	-0.0405	1.0432	-6.5654	0.0040	0.6159	17.5130	
36	0.01	7.26	-0.0017	-0.0446	0.9501	-6.4724	0.0040	0.6045	49.7764	
37	0.01	8.10	0.0022	-0.0411	0.8516	-6.2696	0.0070	0.5880	-41.4000	
38	0.01	8.89	0.0017	-0.0342	0.7474	-6.2177	0.0040	0.5701	-25.4540	
39	0.01	9.71	0.0040	-0.1256	0.7225	-6.1674	0.0040	0.5651	-13.2556	
40	0.01	10.49	0.0242	-0.1675	0.6764	-6.2110	0.0170	0.5520	-5.9340	
41	0.01	11.30	0.0405	-0.1767	0.5160	-6.1647	0.0010	0.5365	-3.4990	
42	0.01	12.07	0.0286	-0.1380	0.4132	-6.0884	0.0	0.5234	-4.8266	
43	0.01	12.84	0.0134	-0.1253	0.3567	-5.7446	-0.0150	0.5094	-9.0812	
44	0.01	13.62	0.0191	-0.0747	0.2366	-5.6155	-0.0220	0.4934	-3.9131	
45	0.01	14.38	0.0014	-0.0075	0.0707	-5.5363	-0.0320	0.4736	-4.1778	
46	0.01	15.14	0.0171	-0.0189	-0.0783	-5.3957	-0.0330	0.4442	-1.1076	

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MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	WALW	WX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
	6	64	0.85	1.7	0.0	BZ40F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HFA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.01	15.92	-0.0074	0.0104	-0.1639	-5.1859	-0.0430	0.4220	-1.4000			
48	0.01	16.73	-0.0022	-0.0269	-0.3523	-4.8901	-0.0650	0.3840	12.2364			
49	0.01	17.54	0.0306	-0.0468	-0.5726	-4.5196	-0.0650	0.3399	-1.5307			
50	0.02	18.42	-0.0064	0.0789	-0.7599	-4.0855	-0.0610	0.2961	-12.3375			
51	0.01	19.19	0.0041	-0.0037	-1.0075	-3.6609	-0.0680	0.2415	-0.9122			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RAIO-6	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
5	0.0	U.S. 1.7	0.0	02W0F13	0.0	30	0	30	0	FIXED		
POINT	ALPHA	HFTA	CONF1	CM1	CM1	XCPF1	YCPF1	CONF2	CM2	CM2	XCPF2	YCPF2
1	0.01	-14.89	1.2246	-0.0094	0.4899	-0.0080	0.4000	-0.0421	0.0059	-0.0033	-0.1408	0.0791
2	0.01	-19.68	1.2274	-0.0101	0.4916	-0.0083	0.4006	-0.0204	0.0017	0.0068	-0.0846	-0.3335
3	0.0	-18.84	1.2240	-0.0090	0.4885	-0.0074	0.3991	-0.0227	0.0047	0.0050	-0.2083	-0.3540
4	0.01	-18.03	1.1456	-0.0069	0.4773	-0.0058	0.3991	-0.0435	0.0025	0.0037	-0.0569	-0.0852
5	0.01	-17.14	1.1867	-0.0051	0.4725	-0.0043	0.3991	-0.0265	0.0033	0.0034	-0.1246	-0.1272
6	0.01	-16.34	1.1709	-0.0035	0.4678	-0.0029	0.3995	-0.0450	0.0059	-0.0121	-0.1301	0.2688
7	0.01	-15.51	1.1451	-0.0014	0.4561	-0.0012	0.4001	-0.0514	0.0052	-0.0114	-0.1000	0.2193
8	0.01	-14.72	1.1255	0.0005	0.4490	0.0004	0.3989	-0.0636	0.0034	-0.0175	-0.0531	0.2750
9	0.01	-13.87	1.1047	0.0020	0.4390	0.0023	0.3959	-0.0460	0.0030	-0.0062	-0.0653	0.1354
10	0.02	-13.03	1.0847	0.0032	0.4345	0.0030	0.3988	-0.0646	0.0016	-0.0124	-0.0244	0.1923
11	0.01	-12.23	1.0717	0.0050	0.4276	0.0053	0.3990	-0.0551	0.0025	-0.0094	-0.0449	0.1699
12	0.01	-11.44	1.0509	0.0063	0.4197	0.0060	0.3994	-0.0565	0.0016	-0.0099	-0.0279	0.1757
13	0.01	-10.73	1.0300	0.0065	0.4102	0.0062	0.3983	-0.0552	0.0017	-0.0085	-0.0313	0.1539
14	0.01	-9.97	1.0256	0.0092	0.4052	0.0089	0.3951	-0.0507	0.0004	-0.0077	-0.0075	0.1539
15	0.01	-9.21	0.9906	0.0104	0.3948	0.0105	0.3986	-0.0546	0.0002	-0.0097	-0.0027	0.1775
16	0.01	-8.39	0.9755	0.0117	0.3883	0.0120	0.3940	-0.0474	0.0006	-0.0053	-0.0127	0.1117
17	0.01	-7.64	0.9612	0.0122	0.3806	0.0127	0.3960	-0.0391	-0.0005	-0.0043	0.0134	0.1107
18	0.01	-6.79	0.9377	0.0130	0.3719	0.0145	0.3966	-0.0448	-0.0004	-0.0044	0.0084	0.1881
19	0.01	-6.01	0.9194	0.0144	0.3638	0.0162	0.3955	-0.0358	0.0003	-0.0044	-0.0084	0.1293
20	0.01	-5.23	0.9026	0.0152	0.3562	0.0169	0.3946	-0.0458	-0.0003	-0.0048	0.0066	0.1040
21	0.01	-4.48	0.8705	0.0172	0.3433	0.0198	0.3944	-0.0520	0.0008	-0.0075	-0.0159	0.1448
22	0.01	-3.67	0.8566	0.0175	0.3368	0.0204	0.3933	-0.0553	0.0006	-0.0087	-0.0109	0.1578
23	0.01	-2.87	0.8342	0.0170	0.3330	0.0204	0.3992	-0.0523	0.0008	-0.0075	-0.0158	0.1439
24	0.01	-2.09	0.8347	0.0154	0.3316	0.0189	0.3973	-0.0512	0.0009	-0.0050	-0.0176	0.0969
25	0.01	-1.29	0.8402	0.0150	0.3394	0.0179	0.4044	-0.0369	0.0014	-0.0014	-0.0386	0.0378
26	0.01	-0.50	0.8357	0.0157	0.3357	0.0188	0.4017	-0.0400	0.0005	-0.0023	-0.0131	0.0587
27	0.0	0.26	0.8175	0.0154	0.3497	0.0183	0.4013	-0.0181	0.0002	0.0051	-0.0083	-0.2800
28	0.0	1.01	0.8495	0.0174	0.3581	0.0200	0.4001	-0.0167	0.0008	0.0062	-0.0494	-0.3734
29	0.0	1.79	0.9204	0.0195	0.3679	0.0217	0.3995	-0.0244	0.0011	0.0029	-0.0461	-0.1176
30	0.0	2.55	0.9451	0.0196	0.3770	0.0207	0.3988	-0.0274	0.0011	0.0018	-0.0383	-0.0646
31	0.01	3.31	0.9216	0.0220	0.3679	0.0239	0.3992	-0.0450	0.0004	-0.0009	-0.0083	0.0199
32	0.01	4.05	0.8943	0.0246	0.3551	0.0275	0.3971	-0.0491	-0.0003	-0.0044	0.0061	0.0888
33	0.01	4.84	0.8717	0.0273	0.3468	0.0313	0.3978	-0.0507	-0.0004	-0.0045	0.0074	0.0888
34	0.01	5.66	0.8585	0.0310	0.3355	0.0361	0.3908	-0.0507	-0.0009	-0.0040	0.0179	0.1201
35	0.01	6.50	0.8309	0.0335	0.3261	0.0403	0.3901	-0.0457	-0.0004	-0.0045	0.0067	0.0801
36	0.01	7.26	0.8091	0.0357	0.3131	0.0441	0.3870	-0.0441	0.0011	-0.0044	-0.0078	0.0729
37	0.01	8.10	0.7916	0.0383	0.3021	0.0483	0.3806	-0.0459	0.0005	-0.0047	-0.0098	0.1023
38	0.01	8.89	0.7777	0.0408	0.2953	0.0524	0.3747	-0.0526	-0.0004	-0.0046	0.0171	0.0880
39	0.01	9.71	0.7714	0.0413	0.2975	0.0545	0.3856	-0.0391	0.0003	0.0006	-0.0077	-0.0144
40	0.01	10.49	0.7648	0.0400	0.3032	0.0573	0.3964	-0.0377	0.0003	0.0016	-0.0080	-0.0434
41	0.01	11.30	0.7435	0.0448	0.2952	0.0602	0.3970	-0.0424	0.0008	0.0004	-0.0194	-0.0095
42	0.01	12.07	0.7072	0.0437	0.2829	0.0618	0.4000	-0.0432	-0.0002	-0.0039	0.0035	0.0902
43	0.01	12.84	0.6699	0.0421	0.2722	0.0629	0.4064	-0.0433	0.0003	-0.0048	-0.0069	0.0884
44	0.01	13.62	0.6345	0.0417	0.2571	0.0657	0.4051	-0.0433	0.0008	-0.0038	-0.0191	0.0884
45	0.01	14.38	0.5988	0.0407	0.2471	0.0680	0.4126	-0.0460	0.0	-0.0066	0.0	0.1441
46	0.01	15.14	0.5587	0.0387	0.2397	0.0693	0.4290	-0.0363	0.0012	-0.0046	-0.0331	0.1264

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RE10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		64	0.85	1.7	0.0	M2WDF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	RE1A	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.01	15.92	0.5140	0.0369	0.2238	0.0717	0.4354	-0.0291	0.0023	0.0006	-0.0799	-0.0207
48	0.01	16.73	0.4491	0.0336	0.2026	0.0749	0.4511	-0.0290	0.0023	0.0005	-0.0802	-0.0185
49	0.01	17.54	0.3769	0.0300	0.1721	0.0797	0.4567	-0.0274	0.0024	0.0007	-0.0876	-0.0244
50	0.02	18.42	0.3130	0.0246	0.1420	0.0785	0.4537	-0.0398	0.0016	-0.0031	-0.0396	0.0769
51	0.01	19.19	0.2335	0.0185	0.1117	0.0791	0.4785	-0.0340	0.0017	0.0011	-0.0508	-0.0315

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RK10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 64 0.85 1.7 0.0 H20F13 0.0 30 0 30 0 FIXED

POINT	ALPHA	HFA	CF3	CM3	CG3	XCPF3	YCPF3	CF4	CM4	CG4	XCPF4	YCPF4
1	0.01	-14.99	1.2066	0.0005	0.5007	0.0004	0.4146	0.0100	-0.0054	-0.0177	-0.5403	-1.7668
2	0.01	-14.64	1.1809	0.0011	0.5008	0.0010	0.4240	0.0154	-0.0058	-0.0208	-0.3752	-1.3486
3	0.0	-14.84	1.1861	0.0020	0.4945	0.0016	0.4176	0.0027	-0.0073	-0.0224	-2.6961	-8.2964
4	0.01	-14.03	1.1614	0.0037	0.4877	0.0032	0.4199	0.0014	-0.0065	-0.0200	-3.4363	-10.5089
5	0.01	-17.14	1.1524	0.0062	0.4812	0.0053	0.4175	0.0101	-0.0056	-0.0177	-0.5498	-1.7559
6	0.01	-16.34	1.1378	0.0081	0.4770	0.0071	0.4192	0.0101	-0.0056	-0.0177	-0.5498	-1.7559
7	0.01	-15.51	1.1203	0.0095	0.4668	0.0088	0.4166	0.0177	-0.0034	-0.0139	-0.2162	-0.7854
8	0.01	-14.72	1.0477	0.0122	0.4587	0.0111	0.4179	0.0177	-0.0040	-0.0139	-0.2247	-0.7854
9	0.01	-13.87	1.0748	0.0140	0.4527	0.0130	0.4212	0.0139	-0.0053	-0.0158	-0.3833	-1.1344
10	0.02	-13.03	1.0693	0.0152	0.4455	0.0142	0.4167	0.0145	-0.0048	-0.0182	-0.3312	-1.2530
11	0.01	-12.23	1.0502	0.0173	0.4345	0.0145	0.4137	0.0177	-0.0046	-0.0138	-0.2586	-0.7798
12	0.01	-11.49	1.0271	0.0185	0.4275	0.0180	0.4162	0.0138	-0.0047	-0.0157	-0.3426	-1.1378
13	0.01	-10.73	1.0004	0.0202	0.4222	0.0202	0.4220	0.0258	-0.0034	-0.0116	-0.1309	-0.4497
14	0.01	-9.97	0.9452	0.0217	0.4141	0.0218	0.4161	0.0173	-0.0040	-0.0129	-0.2299	-0.7477
15	0.01	-9.21	0.9722	0.0231	0.4059	0.0237	0.4175	0.0257	-0.0034	-0.0115	-0.1314	-0.4489
16	0.01	-8.39	0.9452	0.0250	0.3946	0.0265	0.4175	0.0254	-0.0029	-0.0107	-0.1123	-0.4227
17	0.01	-7.64	0.9297	0.0264	0.3858	0.0284	0.4153	0.0376	-0.0010	-0.0075	-0.0259	-0.1987
18	0.01	-6.79	0.9028	0.0268	0.3824	0.0295	0.4203	0.0206	-0.0029	-0.0093	-0.1384	-0.4532
19	0.01	-6.01	0.8749	0.0285	0.3704	0.0325	0.4233	0.0331	-0.0015	-0.0070	-0.0453	-0.2106
20	0.01	-5.23	0.8707	0.0289	0.3639	0.0332	0.4179	0.0377	-0.0010	-0.0075	-0.0259	-0.1999
21	0.01	-4.48	0.8526	0.0288	0.3577	0.0338	0.4196	0.0196	-0.0017	-0.0062	-0.0842	-0.3147
22	0.01	-3.67	0.8420	0.0288	0.3555	0.0342	0.4222	0.0194	-0.0021	-0.0062	-0.1061	-0.3133
23	0.01	-2.87	0.8153	0.0299	0.3505	0.0355	0.4249	0.0333	-0.0010	-0.0070	-0.0293	-0.2103
24	0.01	-2.09	0.8182	0.0287	0.3444	0.0351	0.4209	0.0378	-0.0008	-0.0075	-0.0199	-0.1985
25	0.01	-1.29	0.7920	0.0294	0.3446	0.0371	0.4350	0.0420	-0.0008	-0.0064	-0.0179	-0.1525
26	0.01	-0.50	0.7874	0.0300	0.3388	0.0381	0.4303	0.0378	-0.0008	-0.0075	-0.0199	-0.1985
27	0.0	0.28	0.7747	0.0314	0.3302	0.0405	0.4262	0.0454	-0.0001	-0.0021	-0.0017	-0.0456
28	0.0	1.01	0.7821	0.0310	0.3318	0.0396	0.4242	0.0593	-0.0001	-0.0037	-0.0013	-0.0631
29	0.0	1.74	0.8377	0.0332	0.3522	0.0396	0.4204	0.0551	-0.0001	-0.0056	-0.0014	-0.1024
30	0.0	2.55	0.8619	0.0345	0.3672	0.0400	0.4261	0.0448	0.0014	-0.0021	0.0318	-0.0462
31	0.01	3.31	0.8974	0.0353	0.3749	0.0393	0.4177	0.0447	0.0014	-0.0021	0.0319	-0.0471
32	0.01	4.05	0.8854	0.0371	0.3725	0.0419	0.4207	0.0593	0.0007	-0.0068	0.0114	-0.1154
33	0.01	4.88	0.8624	0.0390	0.3593	0.0453	0.4166	0.0457	0.0002	-0.0053	0.0033	-0.1154
34	0.01	5.66	0.8261	0.0424	0.3474	0.0514	0.4205	0.0366	0.0	-0.0043	0.0	-0.1176
35	0.01	6.50	0.7906	0.0451	0.3371	0.0570	0.4264	0.0411	-0.0008	-0.0040	-0.0183	-0.0974
36	0.01	7.28	0.7844	0.0473	0.3266	0.0603	0.4164	0.0585	-0.0001	-0.0028	-0.0013	-0.0480
37	0.01	8.10	0.7638	0.0510	0.3173	0.0667	0.4155	0.0550	-0.0002	-0.0056	-0.0091	-0.1013
38	0.01	8.89	0.7421	0.0547	0.3075	0.0737	0.4144	0.0408	-0.0009	-0.0016	-0.0202	-0.0393
39	0.01	9.71	0.7263	0.0587	0.3001	0.0751	0.4133	0.0414	-0.0019	-0.0040	-0.0449	-0.0950
40	0.01	10.49	0.7152	0.0640	0.2983	0.0811	0.4172	0.0549	-0.0016	-0.0023	-0.0287	-0.0420
41	0.01	11.30	0.7103	0.0623	0.3032	0.0877	0.4269	0.0421	-0.0035	-0.0040	-0.0820	-0.0943
42	0.01	12.07	0.6830	0.0631	0.3011	0.0924	0.4409	0.0415	-0.0027	-0.0016	-0.0651	-0.0379
43	0.01	12.84	0.6507	0.0622	0.2903	0.0956	0.4462	0.0126	-0.0061	-0.0101	-0.4824	-0.8017
44	0.01	13.62	0.6370	0.0607	0.2792	0.0952	0.4383	0.0127	-0.0076	-0.0093	-0.5968	-0.7298
45	0.01	14.38	0.6111	0.0580	0.2707	0.0950	0.4429	-0.0025	-0.0092	-0.0186	3.6923	7.4532
46	0.01	15.14	0.5697	0.0552	0.2640	0.0969	0.4634	0.0021	-0.0092	-0.0192	-4.3599	-9.1430

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RE $\times 10^{-6}$	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		64	0.85	1.7	0.0	BZM0F13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	HFA	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4	
47	0.01	15.92	0.5388	0.0529	0.2514	0.0981	0.4665	-0.0148	-0.0103	-0.0218	0.6947	1.4751	
48	0.01	16.73	0.4877	0.0488	0.2322	0.1001	0.4762	-0.0094	-0.0098	-0.0256	1.0379	2.7268	
49	0.01	17.54	0.4374	0.0454	0.2111	0.1037	0.4826	-0.0187	-0.0092	-0.0245	0.4896	1.3118	
50	0.02	18.42	0.3721	0.0407	0.1872	0.1094	0.5032	-0.0127	-0.0098	-0.0299	0.7682	2.3568	
51	0.01	19.19	0.3186	0.0361	0.1660	0.1103	0.4896	-0.0127	-0.0079	-0.0307	0.6205	2.4198	

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6											
6	05	0.92	1.7	0.0	02W0F13	0.0	DEL1	DEL2	DEL3	DEL4	TRANSITION
							30	0	30	0	FIXED
POINT	ALPHA	HETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-14.88	0.0762	-0.1484	3.8600	-8.4056	-0.0220	0.9526	-4.3532		
2	0.01	-19.54	0.0499	-0.2024	3.9047	-8.4905	-0.0160	0.9512	-4.0653		
3	0.0	-18.77	0.0797	-0.2066	3.7405	-8.3553	-0.0120	0.9446	-6.9556		
4	0.01	-17.93	0.0316	-0.1712	3.6574	-8.3390	-0.0120	0.9445	-5.4190		
5	0.01	-17.06	0.0736	-0.1100	3.4797	-8.2612	-0.0110	0.9470	-4.6627		
6	0.01	-16.26	0.0391	-0.1567	3.3807	-8.1725	-0.0090	0.9231	-4.0087		
7	0.01	-15.42	0.0364	-0.1519	3.3052	-8.1128	-0.0040	0.9181	-4.1747		
8	0.01	-14.64	0.0145	-0.0933	3.0944	-7.9767	0.0010	0.9171	-6.4345		
9	0.01	-13.78	0.0033	-0.0936	3.0459	-7.9618	0.0130	0.9152	-28.3697		

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNFP	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
h		65	0.92	1.7		0.0	82W0F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	MFTA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2	
1	0.01	-19.88	1.3109	-0.3155	0.5106	-0.0118	0.3895	-0.0017	0.0078	-0.0025	-4.5911	1.4509	
2	0.01	-19.54	1.3156	-0.0161	0.5144	-0.0123	0.3910	-0.0013	0.0035	-0.0022	-2.7132	1.7178	
3	0.0	-18.77	1.3035	-0.0143	0.5085	-0.0110	0.3901	0.0031	0.0050	-0.0023	1.5978	-0.7313	
4	0.01	-17.93	1.2926	-0.0133	0.5041	-0.0103	0.3900	-0.0069	0.0065	-0.0118	-0.9462	1.7100	
5	0.01	-17.06	1.2787	-0.0118	0.5015	-0.0092	0.3922	-0.0050	0.0026	-0.0055	-0.5253	1.0932	
6	0.01	-16.26	1.2496	-0.0092	0.4890	-0.0074	0.3913	-0.0073	0.0038	-0.0045	-1.6641	1.9419	
7	0.01	-15.42	1.2326	-0.0074	0.4835	-0.0060	0.3922	-0.0042	0.0045	-0.0096	-1.0721	2.2856	
8	0.01	-14.64	1.2248	-0.0059	0.4795	-0.0048	0.3915	-0.0064	0.0026	0.0123	-0.3987	1.9270	
9	0.01	-13.78	1.1968	-0.0042	0.4704	-0.0035	0.3931	-0.0344	0.0037	-0.0292	-0.1069	0.8477	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REX	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	0.92	1.7	0.0	0.0	30	0	30	0	FIXED			
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-19.88	1.3094	-0.0042	0.5231	-0.0032	0.3995	-0.0695	-0.0093	-0.0047	0.1339	0.0670
2	0.01	-19.54	1.3065	-0.0041	0.5212	-0.0031	0.3989	-0.0696	-0.0088	-0.0046	0.1262	0.0660
3	0.0	-18.77	1.2907	-0.0026	0.5147	-0.0020	0.3988	-0.0661	-0.0086	-0.0029	0.1306	0.0443
4	0.01	-17.93	1.2842	-0.0004	0.5102	-0.0006	0.3961	-0.0661	-0.0088	-0.0029	0.1328	0.0443
5	0.01	-17.08	1.2687	0.0010	0.5044	0.0008	0.3976	-0.0664	-0.0086	-0.0021	0.1300	0.0320
6	0.01	-16.26	1.2448	0.0036	0.4940	0.0029	0.3969	-0.0580	-0.0083	-0.0031	0.1423	0.0539
7	0.01	-15.42	1.2330	0.0047	0.4892	0.0038	0.3965	-0.0551	-0.0075	0.0008	0.1362	-0.0152
8	0.01	-14.64	1.1974	0.0068	0.4828	0.0057	0.4025	-0.0621	-0.0083	-0.0027	0.1329	0.0434
9	0.01	-13.76	1.1916	0.0091	0.4763	0.0076	0.3997	-0.0587	-0.0076	-0.0009	0.1291	0.0146

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REID-B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	66	0.97	1.7	0.0	0.20013	0.0	30	0	30	0	FIXED
POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-16.45	0.0274	-0.1613	3.6450	-9.0355	-0.0110	1.0647	-5.8440		
2	0.01	-15.60	0.0710	-0.2084	3.5780	-9.0627	0.0040	1.0579	-2.9352		
3	0.01	-14.83	0.0376	-0.1976	3.3862	-8.9551	0.0040	1.0614	-5.2564		
4	0.01	-13.94	0.0714	-0.2639	3.3395	-9.0477	0.0050	1.0727	-3.6969		
5	0.01	-13.10	0.0412	-0.1987	3.1450	-8.8964	0.0040	1.0722	-4.8223		
6	0.01	-12.37	0.0680	-0.1732	3.0555	-8.9371	0.0040	1.0825	-2.5471		
7	0.01	-11.62	0.0361	-0.1785	3.0707	-9.0856	0.0180	1.0841	-4.9457		
8	0.0	-10.82	0.0442	-0.2289	2.9641	-9.1017	0.0240	1.0852	-5.1783		
9	0.0	-10.10	0.0673	-0.2442	2.8519	-9.0450	0.0330	1.0858	-4.3718		
10	0.0	-9.32	0.0867	-0.3163	2.7627	-8.9745	0.0390	1.0823	-4.3412		
11	0.0	-8.56	0.0707	-0.3189	2.7235	-9.0923	0.0390	1.0912	-4.5117		
12	0.0	-7.77	0.0780	-0.3692	2.6666	-9.2746	0.0530	1.1035	-4.7333		
13	0.0	-7.00	0.1153	-0.5034	2.5938	-9.5215	0.0780	1.1311	-4.3667		
14	0.0	-6.15	0.1452	-0.5802	2.6214	-9.6141	0.0970	1.1044	-3.9964		
15	0.0	-5.44	0.0711	-0.3015	2.6029	-9.9917	0.0540	1.1233	-4.2411		
16	0.0	-4.67	0.0541	-0.2787	2.5097	-10.1057	0.0510	1.1119	-5.1523		
17	0.0	-3.89	0.0350	-0.2400	2.5251	-10.1382	0.0340	1.0960	-6.8571		
18	0.0	-3.06	0.0127	-0.1648	2.4417	-10.1848	0.0250	1.0668	-12.9748		
19	0.0	-2.29	0.0393	-0.2140	2.4380	-10.1983	0.0310	1.0582	-5.5730		
20	0.01	-1.47	0.0259	-0.1702	2.3578	-10.1240	0.0280	1.0550	-6.5737		
21	0.01	-0.69	0.0387	-0.1932	2.2704	-10.0117	0.0190	1.0302	-4.9917		
22	0.01	7.88	0.0051	-0.0991	1.2447	-8.1768	-0.0050	0.9014	-19.4392		
23	0.01	8.66	0.0161	-0.1345	1.0658	-7.7962	-0.0090	0.8594	-8.3565		
24	0.0	9.50	0.0137	-0.1472	0.9132	-7.4386	-0.0110	0.8133	-10.7431		
25	0.01	10.30	0.0191	-0.1177	0.7984	-7.0960	-0.0130	0.7922	-6.1644		
26	0.01	11.11	-0.0029	-0.0709	0.6320	-6.7441	-0.0070	0.7554	24.4620		
27	0.01	11.88	0.0032	-0.0385	0.4618	-6.5188	-0.0080	0.7247	-12.0250		
28	0.01	12.71	0.0039	-0.0685	0.3265	-6.1453	-0.0260	0.6843	-17.5538		
29	0.01	13.43	-0.0113	0.0078	0.1637	-5.8414	-0.0320	0.6392	-0.6920		
30	0.01	14.24	0.0211	-0.0535	-0.0168	-5.5698	-0.0430	0.5949	-2.5374		
31	0.02	14.99	0.0165	-0.0131	-0.1833	-5.2217	-0.0400	0.5513	-0.7439		
32	0.02	15.78	-0.0126	0.0420	-0.4256	-4.8024	-0.0410	0.4948	-0.5587		
33	0.01	16.54	0.0440	-0.1226	-0.5734	-4.6035	-0.0580	0.4458	-2.5020		
34	0.02	17.39	0.0059	0.0167	-0.7782	-4.2128	-0.0440	0.4004	2.8373		
35	0.02	18.21	0.0044	0.0668	-0.9402	-3.9931	-0.0440	0.3644	7.1106		
36	0.01	19.03	0.0503	-0.1194	-1.1641	-3.6405	-0.0570	0.3024	-2.3742		
37	0.02	19.83	-0.0357	0.1380	-1.4585	-3.3074	-0.0270	0.2367	-3.8650		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MALM	MX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	66	0.97	1.7	0.0	U2#0F13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	H/TA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.01	-16.45	1.3453	-0.0144	0.5420	-0.0133	0.3913	0.0137	0.0047	-0.0058	0.3396	-0.4259
2	0.01	-15.00	1.3715	-0.0172	0.5379	-0.0125	0.3922	0.0	0.0047	-0.0134	0.0042	-0.0134
3	0.01	-14.83	1.3500	-0.0155	0.5309	-0.0115	0.3932	-0.0023	0.0036	-0.0152	-1.5662	6.5941
4	0.01	-13.99	1.3514	-0.0140	0.5314	-0.0108	0.3932	0.0060	0.0063	-0.0148	1.0507	-2.6335
5	0.01	-13.18	1.3309	-0.0132	0.5233	-0.0099	0.3932	0.0057	0.0023	-0.0127	0.4081	-2.2282
6	0.01	-12.37	1.3430	-0.0132	0.5294	-0.0098	0.3942	0.0059	0.0004	-0.0129	0.0636	-2.1922
7	0.01	-11.62	1.3424	-0.0127	0.5291	-0.0096	0.3940	-0.0060	0.0026	-0.0165	-0.4378	2.7499
8	0.0	-10.82	1.3440	-0.0128	0.5331	-0.0095	0.3965	0.0024	0.0010	-0.0159	0.4065	-6.6251
9	0.0	-10.10	1.3453	-0.0116	0.5329	-0.0087	0.3961	0.0099	0.0006	-0.0123	0.0606	-1.2425
10	0.0	-9.32	1.3556	-0.0116	0.5368	-0.0086	0.3960	0.0179	0.0011	-0.0051	0.0587	-0.2869
11	0.0	-8.56	1.3597	-0.0113	0.5431	-0.0083	0.3994	0.0143	0.0005	-0.0075	0.0315	-0.5269
12	0.0	-7.77	1.3756	-0.0110	0.5454	-0.0080	0.3965	0.0149	0.0003	-0.0098	0.0201	-0.6601
13	0.0	-7.00	1.4605	-0.0127	0.5861	-0.0087	0.4013	0.0250	0.0002	-0.0044	0.0087	-0.1706
14	0.0	-6.15	1.4772	-0.0128	0.5921	-0.0086	0.4008	0.0403	0.0002	0.0001	0.0037	0.0032
15	0.0	-5.44	1.4711	-0.0122	0.5434	-0.0083	0.4037	0.0144	0.0004	-0.0080	0.0261	-0.5557
16	0.0	-4.67	1.4816	-0.0131	0.5492	-0.0088	0.4044	0.0056	0.0006	-0.0127	0.1035	-7.1840
17	0.0	-3.89	1.4667	-0.0118	0.5443	-0.0090	0.4058	-0.0074	0.0005	-0.0155	-0.0710	2.0900
18	0.0	-3.06	1.4549	-0.0102	0.5898	-0.0070	0.4054	-0.0112	0.0004	-0.0168	-0.0335	1.5029
19	0.0	-2.29	1.4654	-0.0092	0.5962	-0.0062	0.4067	0.0003	0.0010	-0.0131	3.2520	-43.6668
20	0.01	-1.47	1.4473	-0.0076	0.5910	-0.0052	0.4084	-0.0154	0.0003	-0.0172	-0.0195	1.1189
21	0.01	-0.69	1.4169	-0.0060	0.5812	-0.0042	0.4102	-0.0073	0.0007	-0.0163	-0.0425	2.2373
22	0.01	7.86	1.1119	0.0164	0.4704	0.0165	0.4234	-0.0116	0.0008	-0.0159	-0.0712	1.3677
23	0.01	8.66	1.0392	0.0194	0.4460	0.0167	0.4292	-0.0026	0.0012	-0.0129	-0.4618	4.9486
24	0.0	5.50	0.4404	0.0210	0.4147	0.0214	0.4281	0.0012	0.0017	-0.0112	1.4384	-9.3334
25	0.01	10.30	0.9245	0.0228	0.3944	0.0247	0.4266	-0.0039	0.0011	-0.0132	-0.2694	3.3845
26	0.01	11.11	0.8681	0.0222	0.3745	0.0245	0.4314	-0.0050	0.0008	-0.0142	-0.1501	2.8332
27	0.01	11.84	0.8218	0.0152	0.3616	0.0185	0.4400	0.0016	0.0011	-0.0126	0.7036	-7.4543
28	0.01	12.71	0.7590	0.0150	0.3372	0.0206	0.4442	0.0004	0.0004	-0.0148	0.4690	-18.5418
29	0.01	13.43	0.6987	0.0146	0.3100	0.0212	0.4436	0.0022	0.0007	-0.0150	0.3070	-6.8031
30	0.01	14.24	0.6250	0.0143	0.2805	0.0229	0.4488	0.0067	0.0013	-0.0107	0.1904	-1.5922
31	0.02	14.99	0.5704	0.0133	0.2574	0.0233	0.4513	0.0093	0.0015	-0.0099	0.1614	-1.0646
32	0.02	15.76	0.5037	0.0109	0.2256	0.0216	0.4478	0.0099	0.0012	-0.0123	0.1213	-1.7425
33	0.01	16.54	0.4486	0.0092	0.2017	0.0206	0.4496	0.0246	0.0029	-0.0037	0.1159	-0.1505
34	0.02	17.39	0.3788	0.0054	0.1737	0.0143	0.4587	0.0131	0.0020	-0.0085	0.1547	-0.6515
35	0.02	18.21	0.3104	0.0014	0.1466	0.0044	0.4725	0.0080	0.0025	-0.0107	0.3096	-1.3418
36	0.01	19.03	0.2431	-0.0023	0.1230	-0.0043	0.5061	0.0171	0.0032	-0.0079	0.1843	-0.4621
37	0.02	19.83	0.2003	-0.0053	0.1051	-0.0266	0.5245	0.0186	0.0020	-0.0077	0.1089	-0.4141

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-A	PHI	CNF	L	UFL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.97	1.7	0.0	82W0F13	0.0	30	0	30	0	FIXED		
POINT	ALPHA	HFTA	CNF 3	CM1	CM3	XCFF3	YCPF3	CNF4	CM4	CM4	XCFF4	YCPF4
1	0.01	-16.45	1.4033	-0.0052	0.5440	-0.0017	0.3885	-0.0092	-0.0118	0.0018	0.1129	-0.0179
2	0.01	-15.60	1.3754	-0.0033	0.5497	-0.0024	0.3923	-0.0181	-0.0092	0.0059	0.1172	-0.0752
3	0.01	-14.83	1.3754	-0.0023	0.5344	-0.0016	0.3884	-0.0820	-0.0092	0.0070	0.1117	-0.0851
4	0.01	-13.44	1.3520	-0.0008	0.5170	-0.0006	0.3935	-0.0818	-0.0093	0.0049	0.1136	-0.0849
5	0.01	-13.14	1.3367	0.0004	0.5249	0.0006	0.3926	-0.0817	-0.0095	0.0070	0.1157	-0.0854
6	0.01	-12.37	1.3410	0.0020	0.5201	0.0015	0.3878	-0.0777	-0.0091	0.0065	0.1169	-0.0838
7	0.01	-11.62	1.3410	0.0026	0.5191	0.0020	0.3871	-0.0777	-0.0091	0.0065	0.1169	-0.0838
8	0.0	-10.82	1.3250	0.0041	0.5176	0.0031	0.3876	-0.0782	-0.0085	0.0085	0.1084	-0.1092
9	0.0	-10.10	1.3024	0.0050	0.5066	0.0038	0.3890	-0.0597	-0.0075	0.0077	0.1257	-0.1291
10	0.0	-9.37	1.2454	0.0065	0.5014	0.0050	0.3870	-0.0634	-0.0075	0.0082	0.1184	-0.1289
11	0.0	-8.56	1.2481	0.0068	0.5013	0.0053	0.3891	-0.0632	-0.0077	0.0081	0.1211	-0.1288
12	0.0	-7.77	1.3040	0.0065	0.5082	0.0050	0.3897	-0.0606	-0.0064	0.0117	0.1053	-0.1432
13	0.0	-7.00	1.3255	0.0065	0.5147	0.0049	0.3880	-0.0711	-0.0074	0.0109	0.1045	-0.1534
14	0.0	-6.15	1.2484	0.0085	0.4987	0.0066	0.3883	-0.0644	-0.0064	0.0127	0.0991	-0.1478
15	0.0	-5.44	1.3815	0.0071	0.5386	0.0051	0.3899	-0.0671	-0.0070	0.0098	0.1040	-0.1467
16	0.0	-4.67	1.4241	0.0061	0.5568	0.0043	0.3896	-0.0609	-0.0059	0.0136	0.0974	-0.2234
17	0.0	-3.89	1.4638	0.0044	0.5688	0.0033	0.3886	-0.0639	-0.0064	0.0108	0.0998	-0.1691
18	0.0	-3.06	1.4764	0.0044	0.5741	0.0030	0.3889	-0.0633	-0.0068	0.0081	0.1079	-0.1281
19	0.0	-2.23	1.4691	0.0053	0.5727	0.0046	0.3898	-0.0497	-0.0049	0.0127	0.1045	-0.2728
20	0.01	-1.47	1.4644	0.0060	0.5724	0.0041	0.3912	-0.0618	-0.0053	0.0138	0.0862	-0.2234
21	0.01	-0.69	1.4444	0.0081	0.5652	0.0056	0.3913	-0.0618	-0.0053	0.0138	0.0862	-0.2234
22	0.01	0.08	1.1841	0.0340	0.4860	0.0287	0.4104	-0.0465	-0.0075	0.0127	0.1614	-0.2732
23	0.01	4.66	1.1334	0.0348	0.4612	0.0307	0.4069	-0.0437	-0.0079	0.0170	0.1803	-0.3899
24	0.0	9.50	1.0755	0.0375	0.4363	0.0348	0.4057	-0.0397	-0.0102	0.0173	0.2571	-0.4350
25	0.01	10.30	1.0144	0.0381	0.4098	0.0375	0.4040	-0.0418	-0.0113	0.0116	0.2693	-0.2768
26	0.01	11.11	0.9498	0.0387	0.3647	0.0403	0.4008	-0.0415	-0.0132	0.0117	0.3183	-0.2812
27	0.01	11.84	0.9081	0.0333	0.3197	0.0367	0.4142	-0.0525	-0.0137	0.0116	0.2616	-0.2211
28	0.01	12.71	0.8499	0.0319	0.3553	0.0370	0.4132	-0.0774	-0.0111	0.0066	0.1435	-0.0854
29	0.01	13.53	0.8069	0.0318	0.3317	0.0395	0.4120	-0.0800	-0.0116	0.0028	0.1454	-0.0355
30	0.01	14.24	0.7449	0.0316	0.3054	0.0424	0.4100	-0.0937	-0.0126	-0.0014	0.1347	0.0148
31	0.02	14.99	0.6777	0.0305	0.2785	0.0450	0.4110	-0.0807	-0.0116	0.0029	0.1450	-0.0359
32	0.02	15.78	0.5986	0.0288	0.2477	0.0480	0.4138	-0.0889	-0.0140	-0.0053	0.1570	0.0599
33	0.01	16.54	0.5444	0.0276	0.2240	0.0508	0.4207	-0.1007	-0.0135	-0.0039	0.1343	0.0390
34	0.02	17.39	0.4788	0.0231	0.1961	0.0483	0.4095	-0.1008	-0.0129	-0.0040	0.1282	0.0393
35	0.02	18.21	0.4286	0.0205	0.1766	0.0478	0.4121	-0.1011	-0.0119	-0.0040	0.1181	0.0392
36	0.01	19.01	0.3804	0.0161	0.1503	0.0448	0.4171	-0.0970	-0.0096	-0.0072	0.0991	0.0742
37	0.02	19.83	0.2434	0.0109	0.1211	0.0371	0.4127	-0.0920	-0.0134	0.0036	0.1454	-0.0389

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	HTAU-6	PR1	CUNP	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	67	1.01	1.7	0.0	B2WOF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HTA	CN	LLM	CY	CLN	CLL	CAP	ACP		
1	0.01	-19.40	0.0640	-0.2452	4.3441	-9.7633	-0.0040	1.1740	-3.6059		
2	0.0	-19.66	0.0706	-0.3324	4.2752	-9.6216	-0.0100	1.1761	-4.7144		
3	0.0	-19.92	0.0645	-0.2803	4.2764	-9.8441	-0.0090	1.1754	-4.4457		
4	0.01	-18.13	0.0532	-0.2255	4.1649	-9.8209	-0.0040	1.1855	-4.2383		
5	0.0	-17.24	0.0926	-0.3726	4.0085	-9.8233	0.0	1.1765	-4.0242		
6	0.0	-16.46	0.0781	-0.3063	3.9279	-9.9315	0.0130	1.1870	-3.4224		
7	0.0	-15.65	0.0653	-0.3254	3.8186	-9.9954	0.0100	1.2035	-3.4150		
8	0.0	-14.36	0.0665	-0.3631	3.6950	-9.9994	0.0130	1.2030	-4.1977		
9	0.01	-14.06	0.0667	-0.3053	3.5696	-9.9884	0.0270	1.2012	-3.5273		
10	0.01	-13.24	0.0647	-0.2971	3.5236	-10.0254	0.0270	1.1897	-3.3504		
11	0.0	-12.43	0.0576	-0.2716	3.3377	-9.9060	0.0290	1.1962	-4.1160		
12	0.01	-11.70	0.0744	-0.2446	3.2307	-9.9442	0.0330	1.1996	-3.4032		
13	0.0	-10.89	0.0640	-0.2372	3.1446	-9.8477	0.0240	1.1839	-4.9417		
14	0.01	-10.14	0.0729	-0.2700	3.0665	-9.8624	0.0350	1.1767	-3.7045		
15	0.0	-9.34	0.0717	-0.2973	2.9534	-9.8696	0.0350	1.1714	-4.1476		
16	0.0	-8.65	0.0674	-0.3193	2.8413	-9.8661	0.0420	1.1725	-4.7383		
17	0.01	-7.84	0.0664	-0.2637	2.8085	-10.0161	0.0390	1.1715	-3.8561		
18	0.01	-7.06	0.0713	-0.2506	2.6500	-10.2402	0.0370	1.1744	-3.6191		
19	0.0	-6.24	0.0642	-0.2542	2.5476	-10.2679	0.0470	1.1655	-5.6257		
20	0.0	-5.44	0.0776	-0.2126	2.6751	-10.3403	0.0360	1.1540	-5.6453		
21	0.01	-4.71	0.0444	-0.2097	2.7104	-10.4583	0.0270	1.1438	-4.3339		
22	0.01	-3.96	0.0500	-0.1890	2.5914	-10.4070	0.0270	1.1499	-3.7400		
23	0.01	-3.13	0.0344	-0.1631	2.5442	-10.5089	0.0230	1.1464	-4.7430		
24	0.01	-2.34	0.0212	-0.1567	2.4271	-10.3770	0.0190	1.1542	-7.3906		
25	0.01	-1.53	0.0466	-0.1452	2.3917	-10.2635	0.0050	1.1396	-4.1897		
26	0.01	-0.75	0.0265	-0.1701	2.2573	-10.0413	0.0040	1.1276	-6.4189		
27	0.01	0.06	0.0177	-0.1244	2.2286	-9.9112	0.0030	1.1091	-7.7322		
28	0.01	0.74	0.0200	-0.1270	2.1154	-9.6707	0.0080	1.0871	-6.3500		
29	0.0	1.57	0.0304	-0.1911	1.9940	-9.4158	0.0040	1.0642	-6.2052		
30	0.01	2.33	0.0469	-0.2016	1.9263	-9.3040	0.0030	1.0688	-4.2948		
31	0.01	3.13	0.0327	-0.1674	1.8614	-8.4686	0.0050	1.0314	-5.1364		
32	0.01	4.05	0.0146	-0.1400	1.6493	-8.4301	0.0060	1.0123	-10.2971		
33	0.01	4.67	0.0008	-0.0871	1.6101	-8.6873	0.0120	0.9938	-10.8949		
34	0.01	5.46	0.0206	-0.1490	1.4932	-8.4686	0.0070	0.9659	-7.2738		
35	0.01	6.26	0.0346	-0.1644	1.4531	-8.3845	0.0240	0.9612	-4.8682		
36	0.0	7.07	0.0462	-0.2247	1.3361	-8.2307	-0.0110	0.9537	-4.9498		
37	0.01	7.82	0.0317	-0.1804	1.1464	-7.9348	-0.0060	0.9150	-5.0593		
38	0.01	8.67	0.0257	-0.1140	1.0372	-7.6452	-0.0050	0.8894	-4.4350		
39	0.01	9.45	0.0296	-0.1317	0.8634	-7.3459	-0.0160	0.8417	-4.4201		
40	0.01	10.24	0.0237	-0.0892	0.7045	-6.9865	-0.0020	0.8247	-3.7629		
41	0.01	11.06	0.0113	-0.1186	0.6365	-6.7792	-0.0160	0.8095	-10.5150		
42	0.01	11.46	0.0046	-0.0258	0.4647	-6.4554	-0.0190	0.7701	-4.6143		
43	0.01	12.65	0.0192	-0.0944	0.2822	-6.1533	-0.0260	0.7320	-2.1412		
44	0.01	13.42	0.0002	-0.0133	0.1240	-5.8444	-0.0380	0.6844	-6.4000		
45	0.02	14.17	0.0119	-0.0037	-0.0305	-5.6546	-0.0330	0.6615	-0.3076		
46	0.02	14.95	0.0200	0.0130	-0.2967	-5.3889	-0.0390	0.6045	0.6500		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		67	1.01	1.7	0.0	H2NOF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.01	15.70	0.0207	-0.0350	-0.4266	-5.1909	-0.0490	0.5719	-1.6899			
48	0.02	16.52	0.0516	-0.0702	-0.6356	-4.7924	-0.0610	0.5288	-1.3612			
49	0.02	17.31	0.0292	-0.0289	-0.8458	-4.4762	-0.0550	0.4908	-0.9890			
50	0.02	18.19	0.0593	-0.1100	-1.0060	-4.2069	-0.0640	0.4559	-1.8553			
51	0.02	18.93	0.0193	0.0090	-1.3066	-3.9440	-0.0440	0.4009	0.4653			
52	0.01	19.79	-0.0129	0.0441	-1.4681	-3.6649	-0.0370	0.3451	-3.4155			

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	WXL0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	67	1.01	1.7	0.0	220P13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	HTA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.01	-14.70	1.5415	-0.0321	0.6108	-0.0208	0.3962	0.0263	0.0027	-0.0029	0.1027	-0.1117
2	0.0	-19.66	1.5331	-0.0314	0.6100	-0.0205	0.3979	0.0372	0.0044	0.0026	0.1190	0.0698
3	0.0	-16.92	1.5426	-0.0313	0.6137	-0.0203	0.3975	0.0232	-0.0005	0.0002	-0.0226	0.0099
4	0.01	-14.13	1.5305	-0.0302	0.6089	-0.0197	0.3978	0.0249	0.0024	-0.0025	0.0964	-0.1005
5	0.0	-17.24	1.5146	-0.0203	0.6035	-0.0167	0.3984	0.0300	0.0035	-0.0015	0.1151	-0.0501
6	0.0	-16.46	1.5203	-0.0276	0.6072	-0.0182	0.3994	0.0192	0.0014	-0.0067	0.0743	-0.3491
7	0.0	-15.65	1.5163	-0.0269	0.6055	-0.0177	0.3993	0.0216	0.0020	-0.0059	0.0938	-0.2733
8	0.0	-14.46	1.5157	-0.0259	0.6061	-0.0170	0.3999	0.0252	0.0039	-0.0048	0.1549	-0.1906
9	0.01	-14.06	1.5098	-0.0249	0.6047	-0.0165	0.4005	0.0195	-0.0004	-0.0078	-0.0192	-0.4001
10	0.01	-13.24	1.4999	-0.0235	0.6005	-0.0157	0.4003	0.0134	0.0007	-0.0108	0.0504	-0.8086
11	0.0	-12.43	1.4888	-0.0225	0.5964	-0.0151	0.4006	0.0084	0.0011	-0.0126	0.1340	-1.5001
12	0.01	-11.70	1.4808	-0.0214	0.5944	-0.0144	0.4003	0.0047	0.0005	-0.0139	0.1118	-2.9647
13	0.0	-10.89	1.4508	-0.0194	0.5849	-0.0133	0.4010	0.0025	0.0022	-0.0166	0.8705	-6.6268
14	0.01	-10.18	1.4607	-0.0184	0.5865	-0.0126	0.4015	0.0059	0.0005	-0.0143	0.0890	-2.7600
15	0.0	-9.39	1.4681	-0.0175	0.5867	-0.0119	0.3997	0.0097	0.0010	-0.0128	0.1006	-1.3163
16	0.0	-8.65	1.4694	-0.0169	0.5849	-0.0115	0.4009	0.0060	0.0013	-0.0140	0.2126	-7.3335
17	0.01	-7.84	1.4827	-0.0161	0.5961	-0.0108	0.4020	0.0104	0.0003	-0.0115	0.0278	-1.0649
18	0.01	-7.06	1.4904	-0.0153	0.6017	-0.0102	0.4016	0.0057	0.0004	-0.0124	0.0658	-7.1756
19	0.0	-6.26	1.4604	-0.0152	0.6055	-0.0101	0.4045	0.0023	0.0010	-0.0152	0.4242	-6.6239
20	0.0	-5.49	1.5052	-0.0163	0.6125	-0.0108	0.4069	0.0011	0.0004	-0.0156	0.3411	-14.7122
21	0.01	-4.71	1.4977	-0.0150	0.6109	-0.0100	0.4079	0.0021	0.0008	-0.0145	0.3931	-6.9049
22	0.01	-3.96	1.4947	-0.0131	0.6049	-0.0088	0.4081	0.0029	0.0007	-0.0122	0.2329	-4.2185
23	0.01	-3.13	1.4964	-0.0118	0.6140	-0.0079	0.4103	-0.0061	0.0005	-0.0191	-0.0861	3.1365
24	0.01	-2.34	1.4875	-0.0116	0.6100	-0.0078	0.4101	-0.0057	0.0013	-0.0158	-0.2238	2.7718
25	0.01	-1.53	1.4547	-0.0107	0.5988	-0.0073	0.4116	-0.0035	0.0014	-0.0139	-0.3860	3.9618
26	0.01	-0.75	1.4249	-0.0092	0.5859	-0.0064	0.4100	-0.0059	0.0008	-0.0147	-0.1394	2.4858
27	0.01	0.06	1.3918	-0.0073	0.5749	-0.0052	0.4131	-0.0030	0.0009	-0.0155	-0.3002	5.1665
28	0.01	0.78	1.3620	-0.0041	0.5559	-0.0030	0.4061	-0.0080	0.0005	-0.0171	-0.0657	2.1332
29	0.0	1.57	1.3298	-0.0020	0.5464	-0.0015	0.4109	-0.0006	0.0015	-0.0141	2.5016	-23.5001
30	0.01	2.33	1.2903	0.0003	0.5314	0.0002	0.4118	-0.0005	0.0011	-0.0150	-2.2514	29.9332
31	0.01	3.13	1.2545	0.0035	0.5194	0.0028	0.4134	0.0011	0.0003	-0.0157	0.2729	-14.3031
32	0.01	3.89	1.2226	0.0070	0.5037	0.0057	0.4120	-0.0018	0.0009	-0.0148	-0.5003	8.7221
33	0.01	4.67	1.1903	0.0110	0.4826	0.0092	0.4125	-0.0049	0.0001	-0.0144	-0.0153	3.7618
34	0.01	5.46	1.1604	0.0135	0.4799	0.0116	0.4136	-0.0004	0.0007	-0.0152	-1.6486	38.0832
35	0.01	6.26	1.1376	0.0115	0.4993	0.0098	0.4276	-0.0038	0.0007	-0.0175	-0.1777	4.5464
36	0.0	7.07	1.1163	0.0109	0.4770	0.0092	0.4265	0.0181	0.0024	-0.0097	0.1327	-0.5342
37	0.01	7.82	1.0998	0.0107	0.4599	0.0101	0.4283	0.0069	0.0014	-0.0125	0.2067	-1.8117
38	0.01	8.67	1.0832	0.0131	0.4298	0.0130	0.4285	0.0020	0.0011	-0.0141	0.5629	-7.0668
39	0.01	9.45	0.94510	0.0149	0.4064	0.0156	0.4274	0.0094	0.0014	-0.0119	0.1517	-1.2625
40	0.01	10.29	0.9014	0.0087	0.3474	0.0097	0.4409	0.0083	0.0014	-0.0127	0.1718	-1.5343
41	0.01	11.06	0.8610	0.0100	0.3283	0.0116	0.4344	0.0083	0.0011	-0.0125	0.1266	-1.5102
42	0.01	11.88	0.8022	0.0110	0.3548	0.0137	0.4422	0.0021	0.0008	-0.0146	0.3931	-6.9525
43	0.01	12.65	0.7517	0.0107	0.3242	0.0142	0.4380	0.0094	0.0014	-0.0130	0.1455	-1.3300
44	0.01	13.42	0.6863	0.0104	0.3028	0.0151	0.4412	0.0114	0.0012	-0.0140	0.1053	-1.2282
45	0.02	14.17	0.6318	0.0104	0.2823	0.0164	0.4468	0.0166	0.0008	-0.0128	0.0497	-0.7692
46	0.02	14.95	0.5827	0.0090	0.2502	0.0160	0.4447	0.0210	0.0021	-0.0092	0.1001	-0.4382

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REYNOLDS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
h	67	1.01	1.7	0.0	0.20013	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH3	XCPF2	YCPF2
47	0.01	15.70	0.4053	0.0076	0.2236	0.0150	0.4417	0.0096	0.0010	-0.0130	0.0996	-1.3300
48	0.02	16.52	0.4301	0.0040	0.1915	0.0093	0.4451	0.0351	0.0031	-0.0022	0.0877	-0.0628
49	0.02	17.31	0.3653	0.0004	0.1644	0.0010	0.4502	0.0310	0.0024	-0.0021	0.0775	-0.0668
50	0.02	18.14	0.2921	-0.0036	0.1362	-0.0123	0.4665	0.0208	0.0010	-0.0042	0.0669	-0.4408
51	0.02	18.93	0.2458	-0.0071	0.1168	-0.0287	0.4753	0.0304	0.0021	-0.0021	0.0680	-0.0681
52	0.01	19.79	0.1952	-0.0103	0.0942	-0.0527	0.4824	0.0252	0.0016	-0.0060	0.0625	-0.2382

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	DEL1	DEL2	DEL3	DEL4	TRANSITION						
6	1.01	1.7	0.0	0.2	0.13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	0.01	-19.90	1.5581	-0.0177	0.6065	-0.0114	0.3893	-0.0985	-0.0123	0.0001	0.1251	-0.0011
2	0.0	-19.68	1.5478	-0.0176	0.6063	-0.0114	0.3917	-0.0993	-0.0119	0.0027	0.1203	-0.0277
3	0.0	-18.92	1.5354	-0.0166	0.6053	-0.0108	0.3942	-0.0985	-0.0129	0.0001	0.1312	-0.0011
4	0.01	-18.13	1.5371	-0.0153	0.6008	-0.0100	0.3909	-0.1102	-0.0123	0.0034	0.1118	-0.0310
5	0.0	-17.24	1.5329	-0.0137	0.5959	-0.0090	0.3888	-0.0974	-0.0106	0.0083	0.1088	-0.0851
6	0.0	-16.46	1.5082	-0.0114	0.5908	-0.0079	0.3917	-0.0975	-0.0107	0.0072	0.1149	-0.0768
7	0.0	-15.65	1.5161	-0.0111	0.5907	-0.0073	0.3896	-0.0954	-0.0113	0.0056	0.1177	-0.0583
8	0.0	-14.86	1.5048	-0.0098	0.5887	-0.0065	0.3915	-0.1001	-0.0113	0.0067	0.1126	-0.0668
9	0.01	-14.06	1.4878	-0.0083	0.5780	-0.0056	0.3885	-0.0932	-0.0103	0.0085	0.1104	-0.0911
10	0.01	-13.24	1.4758	-0.0068	0.5761	-0.0046	0.3904	-0.0783	-0.0098	0.0067	0.1256	-0.0857
11	0.0	-12.43	1.4641	-0.0057	0.5744	-0.0039	0.3923	-0.0782	-0.0098	0.0066	0.1257	-0.0849
12	0.01	-11.70	1.4525	-0.0047	0.5724	-0.0032	0.3922	-0.0888	-0.0102	0.0079	0.1149	-0.0891
13	0.0	-10.89	1.4575	-0.0029	0.5650	-0.0020	0.3877	-0.0778	-0.0102	0.0067	0.1312	-0.0858
14	0.01	-10.18	1.4353	-0.0019	0.5623	-0.0013	0.3918	-0.0716	-0.0087	0.0090	0.1216	-0.1263
15	0.0	-9.39	1.4305	-0.0005	0.5589	-0.0004	0.3907	-0.0721	-0.0087	0.0110	0.1207	-0.1522
16	0.0	-8.65	1.4392	0.0005	0.5625	0.0003	0.3908	-0.0721	-0.0087	0.0110	0.1207	-0.1522
17	0.01	-7.84	1.4386	0.0018	0.5644	0.0013	0.3923	-0.0730	-0.0075	0.0136	0.1028	-0.1860
18	0.01	-7.06	1.4650	0.0022	0.5732	0.0015	0.3913	-0.0717	-0.0083	0.0091	0.1151	-0.1270
19	0.0	-6.24	1.4677	0.0026	0.5748	0.0018	0.3916	-0.0722	-0.0083	0.0110	0.1143	-0.1529
20	0.0	-5.49	1.4866	0.0023	0.5850	0.0015	0.3935	-0.0722	-0.0081	0.0110	0.1123	-0.1529
21	0.01	-4.71	1.5147	0.0007	0.5930	0.0004	0.3902	-0.0694	-0.0072	0.0132	0.1038	-0.1898
22	0.01	-3.96	1.5291	0.0017	0.5933	0.0011	0.3880	-0.0762	-0.0074	0.0121	0.0965	-0.1589
23	0.01	-3.13	1.5280	0.0026	0.6004	0.0017	0.3929	-0.0726	-0.0074	0.0117	0.1013	-0.1613
24	0.01	-2.34	1.5262	0.0032	0.6022	0.0021	0.3946	-0.0701	-0.0062	0.0145	0.0878	-0.2074
25	0.01	-1.53	1.5152	0.0037	0.5969	0.0024	0.3940	-0.0697	-0.0066	0.0133	0.0948	-0.1905
26	0.01	-0.75	1.4899	0.0049	0.5846	0.0033	0.3951	-0.0702	-0.0067	0.0146	0.0951	-0.2091
27	0.01	0.06	1.4612	0.0066	0.5780	0.0045	0.3956	-0.0593	-0.0062	0.0133	0.1038	-0.2250
28	0.01	0.78	1.4144	0.0102	0.5886	0.0077	0.3938	-0.0592	-0.0062	0.0133	0.1039	-0.2242
29	0.0	1.57	1.4950	0.0136	0.5439	0.0097	0.3899	-0.0563	-0.0060	0.0154	0.1066	-0.2742
30	0.01	2.33	1.3730	0.0165	0.5354	0.0120	0.3899	-0.0573	-0.0047	0.0187	0.0825	-0.3265
31	0.01	3.13	1.3328	0.0190	0.5201	0.0143	0.3902	-0.0484	-0.0060	0.0127	0.1240	-0.2614
32	0.01	3.85	1.2976	0.0211	0.5072	0.0163	0.3904	-0.0601	-0.0060	0.0166	0.0999	-0.2758
33	0.01	4.67	1.2678	0.0249	0.4871	0.0196	0.3848	-0.0700	-0.0066	0.0146	0.0943	-0.2082
34	0.01	5.46	1.2374	0.0285	0.4803	0.0230	0.3882	-0.0627	-0.0068	0.0143	0.1077	-0.2282
35	0.01	6.26	1.1470	0.0311	0.4719	0.0260	0.3942	-0.0631	-0.0074	0.0148	0.1166	-0.2658
36	0.0	7.07	1.1429	0.0270	0.4916	0.0226	0.4121	-0.0563	-0.0081	0.0186	0.1440	-0.3293
37	0.01	7.82	1.1472	0.0270	0.4664	0.0236	0.4048	-0.0593	-0.0082	0.0164	0.1379	-0.2772
38	0.01	8.67	1.0435	0.0284	0.4438	0.0260	0.4059	-0.0560	-0.0089	0.0179	0.1595	-0.3204
39	0.01	9.45	1.0548	0.0294	0.4227	0.0279	0.4008	-0.0590	-0.0101	0.0164	0.1717	-0.2786
40	0.01	10.29	0.9920	0.0297	0.4020	0.0299	0.4052	-0.0557	-0.0131	0.0187	0.2358	-0.3346
41	0.01	11.06	0.9766	0.0243	0.3961	0.0249	0.4055	-0.0440	-0.0147	0.0148	0.3343	-0.3372
42	0.01	11.88	0.9039	0.0258	0.3696	0.0283	0.4062	-0.0712	-0.0133	0.0085	0.1866	-0.1190
43	0.01	12.65	0.8451	0.0268	0.3505	0.0313	0.4099	-0.0888	-0.0143	0.0073	0.1606	-0.0823
44	0.01	13.42	0.7950	0.0270	0.3228	0.0339	0.4061	-0.0948	-0.0149	0.0073	0.1577	-0.0288
45	0.02	14.17	0.7375	0.0261	0.3027	0.0354	0.4104	-0.0855	-0.0135	0.0070	0.1580	-0.0820
46	0.02	14.95	0.6713	0.0261	0.2718	0.0388	0.4049	-0.0974	-0.0152	0.0001	0.1558	-0.0008

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
A		67	1.01	1.7		0.0	H20F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4	
47	0.01	15.70	0.6164	0.0249	0.2458	0.0403	0.3988	-0.0963	-0.0137	-0.0038	0.1420	0.0390	
48	0.02	16.52	0.5418	0.0219	0.2163	0.0403	0.3991	-0.1092	-0.0163	-0.0047	0.1493	0.0427	
49	0.02	17.31	0.4794	0.0193	0.1853	0.0382	0.3866	-0.1119	-0.0171	-0.0049	0.1530	0.0434	
50	0.02	18.19	0.4325	0.0137	0.1618	0.0316	0.3742	-0.1149	-0.0134	-0.0084	0.1170	0.0728	
51	0.02	18.93	0.3641	0.0101	0.1370	0.0278	0.3764	-0.1020	-0.0151	-0.0029	0.1480	0.0280	
52	0.01	19.79	0.3050	0.0059	0.1139	0.0195	0.3736	-0.1033	-0.0135	0.0010	0.1309	-0.0098	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MPLM	MX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	6R	1.05	1.7	0.0	BZWF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	META	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	-19.86	0.0802	-0.3057	4.4442	-10.0274	-0.0040	1.2644	-3.8065		
2	0.02	-19.82	0.1013	-0.3648	4.6103	-10.0499	-0.0110	1.2542	-3.6014		
3	0.01	-19.47	0.0791	-0.3657	4.4814	-9.9875	-0.0180	1.2730	-4.0238		
4	0.02	-18.74	0.1213	-0.3038	4.3530	-9.9747	-0.0120	1.2678	-3.1647		
5	0.01	-17.83	0.0775	-0.3645	4.1591	-10.0141	-0.0170	1.2596	-4.7032		
6	0.01	-17.07	0.0923	-0.3918	4.0717	-10.0348	-0.0080	1.2503	-4.2724		
7	0.02	-16.24	0.0946	-0.3644	3.9356	-10.0092	-0.0030	1.2458	-3.6540		
8	0.01	-15.45	0.0477	-0.3607	3.8389	-10.0508	-0.0020	1.2428	-4.1138		
9	0.01	-14.63	0.0755	-0.3557	3.6595	-9.9707	0.0110	1.2374	-4.7113		
10	0.02	-13.82	0.0885	-0.4421	3.5969	-10.0480	0.0200	1.2385	-3.9549		
11	0.02	-13.02	0.0742	-0.3208	3.4337	-10.0164	0.0160	1.2516	-4.3245		
12	0.02	-12.23	0.0840	-0.2546	3.3249	-10.0551	0.0170	1.2534	-3.1500		
13	0.02	-11.47	0.0624	-0.2613	3.3086	-10.1123	0.0300	1.2404	-4.1885		
14	0.02	-10.73	0.0451	-0.2341	3.1581	-10.1416	0.0300	1.2549	-4.3220		
15	0.02	-10.01	0.0741	-0.2717	3.0576	-10.0879	0.0300	1.2508	-3.6672		
16	0.02	-9.19	0.0647	-0.2405	3.0328	-10.2941	0.0340	1.2481	-4.4912		
17	0.02	-8.44	0.0710	-0.2804	3.0351	-10.4393	0.0440	1.2429	-3.9493		
18	0.02	-7.65	0.0475	-0.2495	2.9419	-10.5148	0.0510	1.2393	-3.4229		
19	0.02	-6.86	0.0577	-0.2417	2.8643	-10.5822	0.0340	1.2364	-4.1403		
20	0.02	-6.06	0.0512	-0.2257	2.8235	-10.6031	0.0320	1.2205	-4.4078		
21	0.02	-5.31	0.0533	-0.1726	2.7527	-10.5834	0.0200	1.2160	-3.2386		
22	0.02	-4.53	0.0480	-0.1872	2.7230	-10.6354	0.0240	1.2147	-3.9000		
23	0.02	-3.75	0.0376	-0.1684	2.6660	-10.5984	0.0160	1.2062	-4.2030		
24	0.02	-2.84	0.0314	-0.1519	2.5574	-10.5780	0.0110	1.2135	-4.4795		
25	0.02	-2.15	0.0172	-0.1151	2.5237	-10.4962	0.0130	1.2188	-6.6407		
26	0.02	-1.38	0.0478	-0.1623	2.3423	-10.2393	0.0120	1.2042	-3.4084		
27	0.02	-0.54	0.0357	-0.1650	2.2764	-10.0471	0.0060	1.1879	-5.1815		
28	0.02	0.17	0.0251	-0.1591	2.1631	-9.8335	0.0060	1.1690	-6.3402		
29	0.02	0.97	0.0254	-0.1355	2.0134	-9.5709	0.0040	1.1439	-5.3370		
30	0.02	1.71	0.0108	-0.0981	1.9601	-9.4223	0.0130	1.1306	-9.0852		
31	0.02	2.51	0.0143	-0.1240	1.8451	-9.1592	0.0120	1.1045	-6.6332		
32	0.02	3.26	0.0024	-0.0803	1.8111	-8.9905	0.0140	1.0888	-3.1493		
33	0.02	4.05	0.0391	-0.1807	1.7200	-8.8481	0.0130	1.0691	-4.1110		
34	0.02	4.80	0.0520	-0.1508	1.5510	-8.8345	0.0010	1.0708	-2.9000		
35	0.02	5.66	0.0164	-0.0976	1.4765	-8.4863	0.0	1.0444	-5.7787		
36	0.02	6.44	0.0242	-0.1574	1.3640	-8.3094	-0.0030	1.0178	-5.4044		
37	0.02	7.24	0.0304	-0.1525	1.2184	-8.0186	-0.0020	0.9866	-5.0184		
38	0.02	8.04	0.0504	-0.1762	1.1145	-7.8174	0.0	0.9555	-3.4629		
39	0.02	8.82	0.0429	-0.1370	0.9325	-7.3877	0.0	0.9248	-3.1944		
40	0.02	9.66	0.0046	-0.0684	0.8219	-7.1549	-0.0040	0.8499	-14.8782		
41	0.03	10.45	0.0423	-0.0947	0.7472	-6.9173	-0.0100	0.8773	-2.3456		
42	0.03	11.24	0.0272	-0.0621	0.5767	-6.5670	-0.0100	0.8342	-2.7964		
43	0.03	12.01	0.0124	-0.0154	0.2967	-6.1946	-0.0130	0.7871	-1.2787		
44	0.03	12.82	0.0337	-0.0462	0.2180	-5.8814	-0.0200	0.7438	-2.8540		
45	0.03	13.56	0.0258	-0.0471	-0.0044	-5.5811	-0.0230	0.6935	-1.8264		
46	0.03	14.36	0.0247	-0.0035	-0.1820	-5.2685	-0.0270	0.6613	-0.1449		

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART	MACH	W X10-6	PHI	CONF	L	DEL1	DFL2	DEL3	DEL4	TRANSITION
		6	6R	1.05 1.7	0.0	B2W0F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.03	15.09	0.0293	-0.0390	-0.3028	-5.0314	-0.0400	0.6172	-1.3317			
48	0.03	15.92	0.0207	-0.0340	-0.4434	-4.6945	-0.0430	0.5430	-1.6415			
49	0.03	16.68	0.0633	-0.0446	-0.6410	-4.4859	-0.0460	0.5357	-1.3368			
50	0.03	17.52	0.0693	-0.1220	-0.8928	-4.1584	-0.0540	0.5062	-1.7607			
51	0.03	18.33	0.0616	-0.1072	-1.1944	-7.1522	-0.0510	0.4426	-1.7409			
52	0.03	19.15	0.0333	-0.0336	-1.3990	-3.5737	-0.0470	0.4105	-1.0096			
53	0.04	19.94	0.0462	0.0183	-1.5576	-3.3716	-0.0400	0.3776	0.3965			
54	0.03	19.95	0.0546	-0.1434	-1.5356	-3.3464	-0.0420	0.3585	-2.6271			

MANTIN MISSILE TAILS EFFECTS DATA

TEST POINT	WACH	FX	10-6	PHI	CNCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	6M	1.05	1.7	0.0	8200113	0.0	30	0	30	0	FIXED	
POINT	ALPHA	HFTA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CHP	CH2	XCPF2	YCPF2
1	0.02	-19.86	1.5431	-0.0366	0.6370	-0.0230	0.3939	0.0019	0.0019	0.0032	0.0520	0.0894
2	0.02	-19.82	1.5476	-0.0369	0.6377	-0.0232	0.4017	0.0049	0.0040	0.0043	0.1753	0.0930
3	0.01	-19.47	1.5736	-0.0360	0.6347	-0.0229	0.4013	0.0362	0.0056	0.0013	0.1555	0.0349
4	0.02	-18.74	1.5614	-0.0349	0.6308	-0.0224	0.4040	0.0369	0.0077	0.0026	0.2074	0.0703
5	0.01	-17.49	1.5543	-0.0328	0.6228	-0.0211	0.4007	0.0403	0.0068	0.0056	0.1625	0.1397
6	0.01	-17.07	1.5345	-0.0314	0.6173	-0.0204	0.4012	0.0231	0.0056	-0.0053	0.2437	-0.2796
7	0.02	-16.24	1.5194	-0.0300	0.6160	-0.0197	0.4054	0.0228	0.0053	-0.0041	0.2304	-0.1799
8	0.01	-15.45	1.5123	-0.0287	0.6122	-0.0190	0.4048	0.0167	0.0065	-0.0065	0.3910	-0.3913
9	0.01	-14.63	1.5010	-0.0275	0.6104	-0.0183	0.4067	0.0175	0.0041	-0.0037	0.2316	-0.2096
10	0.02	-13.82	1.4972	-0.0260	0.6076	-0.0174	0.4058	0.0036	0.0035	-0.0108	0.9589	-3.0001
11	0.02	-13.02	1.4940	-0.0247	0.6015	-0.0165	0.4015	0.0057	0.0046	-0.0092	0.8031	-1.6142
12	0.02	-12.23	1.4966	-0.0240	0.6067	-0.0161	0.4053	0.0110	0.0027	-0.0088	0.2456	-0.8031
13	0.02	-11.47	1.4949	-0.0231	0.6050	-0.0155	0.4047	-0.0054	0.0023	-0.0162	-0.4308	2.9999
14	0.02	-10.73	1.5010	-0.0224	0.6074	-0.0149	0.4041	-0.0062	0.0026	-0.0184	-0.4237	2.9622
15	0.02	-10.01	1.5108	-0.0220	0.6097	-0.0146	0.4035	0.0002	0.0020	-0.0121	4.7561	-60.6668
16	0.02	-9.19	1.5231	-0.0205	0.6202	-0.0135	0.4072	-0.0019	0.0016	-0.0142	-0.8295	7.4911
17	0.02	-8.44	1.5382	-0.0199	0.6258	-0.0129	0.4068	0.0003	0.0016	-0.0126	5.2533	-42.0001
18	0.02	-7.65	1.5518	-0.0206	0.6329	-0.0133	0.4078	0.0055	0.0007	-0.0120	0.1228	-2.1759
19	0.02	-6.80	1.5644	-0.0197	0.6301	-0.0128	0.4078	-0.0092	0.0012	-0.0161	-0.1305	1.7463
20	0.02	-6.06	1.5408	-0.0183	0.6284	-0.0119	0.4078	-0.0068	0.0011	-0.0152	-0.1655	2.2303
21	0.02	-5.31	1.5228	-0.0165	0.6233	-0.0108	0.4093	-0.0055	0.0012	-0.0155	-0.2183	2.8241
22	0.02	-4.53	1.5149	-0.0146	0.6231	-0.0096	0.4100	-0.0085	0.0008	-0.0187	-0.0883	2.2038
23	0.02	-3.75	1.5101	-0.0132	0.6222	-0.0088	0.4120	-0.0044	0.0011	-0.0145	-0.2388	3.2878
24	0.02	-2.89	1.4927	-0.0134	0.6185	-0.0090	0.4143	-0.0066	0.0010	-0.0161	-0.1478	2.4393
25	0.02	-2.15	1.4825	-0.0132	0.6146	-0.0089	0.4145	-0.0149	0.0002	-0.0191	-0.0151	1.2795
26	0.02	-1.38	1.4567	-0.0127	0.6071	-0.0084	0.4169	-0.0036	0.0012	-0.0125	-0.3335	3.4721
27	0.02	-0.58	1.4177	-0.0097	0.5907	-0.0068	0.4166	-0.0070	0.0014	-0.0144	-0.1930	2.0618
28	0.02	0.17	1.3841	-0.0080	0.5758	-0.0058	0.4161	-0.0077	0.0017	-0.0137	-0.2293	1.9027
29	0.02	0.97	1.3522	-0.0055	0.5620	-0.0041	0.4156	-0.0115	0.0004	-0.0170	-0.0326	1.4810
30	0.02	1.71	1.3257	-0.0033	0.5499	-0.0025	0.4148	-0.0176	0.0	-0.0187	0.0	1.0605
31	0.02	2.51	1.2860	-0.0008	0.5356	-0.0006	0.4165	-0.0141	0.0004	-0.0169	-0.0266	1.1985
32	0.02	3.26	1.2694	0.0030	0.5261	0.0030	0.4145	-0.0208	-0.0006	-0.0209	0.0289	1.0063
33	0.02	4.05	1.2345	0.0067	0.5202	0.0054	0.4214	-0.0119	0.0007	-0.0156	-0.0568	1.3080
34	0.02	4.80	1.2272	0.0022	0.5240	0.0018	0.4302	-0.0107	0.0008	-0.0150	-0.0772	1.3986
35	0.02	5.66	1.1763	0.0074	0.5066	0.0024	0.4307	-0.0137	0.0003	-0.0154	-0.0227	1.1665
36	0.02	6.44	1.1270	0.0048	0.4838	0.0043	0.4243	-0.0091	0.0	-0.0159	0.0	1.7508
37	0.02	7.24	1.0718	0.0059	0.4626	0.0055	0.4316	-0.0060	0.0008	-0.0130	-0.1376	2.1665
38	0.02	8.04	1.0294	0.0076	0.4436	0.0074	0.4326	-0.0074	0.0009	-0.0120	-0.3752	4.9999
39	0.02	8.82	0.9750	0.0065	0.4257	0.0066	0.4364	-0.0096	0.0001	-0.0141	-0.0078	1.4688
40	0.02	9.66	0.9249	0.0073	0.4086	0.0079	0.4408	0.0001	0.0008	-0.0114	8.2551	-113.6667
41	0.03	10.45	0.8618	0.0087	0.3921	0.0101	0.4434	-0.0073	0.0005	-0.0129	-0.0617	1.7716
42	0.03	11.29	0.8082	0.0091	0.3588	0.0112	0.4439	-0.0064	0.0007	-0.0115	-0.1055	1.8020
43	0.03	12.01	0.7505	0.0095	0.3311	0.0127	0.4412	-0.0073	0.0003	-0.0129	-0.0411	1.7716
44	0.03	12.82	0.6901	0.0093	0.3073	0.0135	0.4453	0.0048	0.0011	-0.0095	0.2345	-1.9793
45	0.03	13.56	0.6410	0.0094	0.2815	0.0146	0.4392	-0.0005	0.0008	-0.0090	-1.6510	17.9332
46	0.03	14.36	0.5681	0.0085	0.2517	0.0149	0.4431	-0.0031	0.0008	-0.0089	-0.2663	2.8816

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		BR 1.05		1.7	0.0	B2#0F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF1	CM1	CM1	XCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2
47	0.03	15.09	0.4875	0.0064	0.2240	0.0133	0.4415	0.0077	0.0011	-0.0052	0.1462	-0.679A
48	0.03	15.92	0.4450	0.0047	0.1991	0.0105	0.4474	0.0007	0.0006	-0.0068	2.0012	-22.6668
49	0.03	16.64	0.3864	0.0015	0.1742	0.0039	0.4508	0.0136	0.0014	-0.0028	0.1048	-0.2035
50	0.03	17.52	0.3116	-0.0028	0.1463	-0.0089	0.4497	0.0159	0.0017	-0.0016	0.1086	-0.1007
51	0.03	18.33	0.2530	-0.0060	0.1226	-0.0237	0.4447	0.0177	0.0008	-0.0031	0.0424	-0.1753
52	0.03	19.15	0.2013	-0.0095	0.1038	-0.0474	0.5156	0.0078	0.0006	-0.0055	0.0770	-0.7052
53	0.04	19.94	0.1453	-0.0130	0.0805	-0.0935	0.5543	0.0056	0.0007	-0.0073	0.1206	-1.3096
54	0.03	19.95	0.1396	-0.0135	0.0767	-0.0968	0.5497	0.0194	0.0015	0.0003	0.0774	0.0136

MARTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	BETA	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
1	0.02	-19.86	1.5958	-0.0227	0.6284	-0.0147	0.3938	-0.0865	-0.0161	-0.0045	0.1865	0.0523
2	0.02	-19.82	1.6155	-0.0234	0.6359	-0.0145	0.3936	-0.0873	-0.0149	-0.0020	0.1711	0.0228
3	0.01	-19.47	1.6086	-0.0228	0.6367	-0.0142	0.3958	-0.0805	-0.0149	-0.0015	0.1855	0.0189
4	0.02	-18.74	1.5470	-0.0215	0.6310	-0.0134	0.3951	-0.0810	-0.0146	0.0004	0.1807	-0.0051
5	0.01	-17.89	1.5795	-0.0198	0.6286	-0.0126	0.3967	-0.0780	-0.0145	0.0019	0.1857	-0.0245
6	0.01	-17.07	1.5690	-0.0174	0.6213	-0.0114	0.3960	-0.0749	-0.0134	0.0027	0.1794	-0.0364
7	0.02	-16.74	1.5556	-0.0160	0.6124	-0.0103	0.3937	-0.0739	-0.0144	0.0002	0.1950	-0.0024
8	0.01	-15.45	1.5503	-0.0146	0.6104	-0.0094	0.3937	-0.0703	-0.0140	-0.0002	0.1986	0.0032
9	0.01	-14.63	1.5165	-0.0125	0.5995	-0.0082	0.3953	-0.0813	-0.0138	0.0029	0.1698	-0.0358
10	0.02	-13.82	1.5128	-0.0110	0.5964	-0.0073	0.3943	-0.0654	-0.0124	0.0072	0.1893	-0.1102
11	0.02	-13.02	1.5140	-0.0101	0.5943	-0.0066	0.3926	-0.0612	-0.0124	0.0049	0.2097	-0.0802
12	0.02	-12.23	1.5131	-0.0091	0.5931	-0.0060	0.3920	-0.0604	-0.0137	0.0024	0.2274	-0.0393
13	0.02	-11.47	1.4984	-0.0075	0.5902	-0.0050	0.3939	-0.0541	-0.0122	0.0041	0.2261	-0.0753
14	0.02	-10.73	1.4936	-0.0066	0.5939	-0.0044	0.3977	-0.0548	-0.0118	0.0065	0.2150	-0.1193
15	0.02	-10.01	1.4935	-0.0054	0.5889	-0.0036	0.3943	-0.0679	-0.0130	0.0051	0.1912	-0.0747
16	0.02	-9.14	1.5072	-0.0047	0.5941	-0.0031	0.3942	-0.0512	-0.0116	0.0061	0.2272	-0.1199
17	0.02	-8.44	1.4974	-0.0033	0.5945	-0.0022	0.3970	-0.0546	-0.0122	0.0065	0.2227	-0.1192
18	0.02	-7.65	1.5098	-0.0018	0.5968	-0.0012	0.3953	-0.0444	-0.0109	0.0060	0.2451	-0.1353
19	0.02	-6.86	1.5348	-0.0020	0.6124	-0.0013	0.3993	-0.0443	-0.0113	0.0059	0.2558	-0.1341
20	0.02	-6.06	1.5490	-0.0025	0.6114	-0.0016	0.3947	-0.0406	-0.0113	0.0049	0.2791	-0.1200
21	0.02	-5.31	1.5507	-0.0020	0.6174	-0.0013	0.3981	-0.0445	-0.0107	0.0060	0.2412	-0.1347
22	0.02	-4.53	1.5530	-0.0006	0.6203	-0.0004	0.3944	-0.0452	-0.0101	0.0084	0.2241	-0.1867
23	0.02	-3.75	1.5635	0.0003	0.6197	0.0002	0.3964	-0.0451	-0.0101	0.0079	0.2230	-0.1745
24	0.02	-2.84	1.5534	0.0010	0.6202	0.0006	0.3942	-0.0352	-0.0095	0.0042	0.2686	-0.2605
25	0.02	-2.15	1.5312	0.0002	0.6192	0.0001	0.4044	-0.0451	-0.0099	0.0079	0.2146	-0.1745
26	0.02	-1.36	1.5091	0.0015	0.6094	0.0010	0.4038	-0.0348	-0.0093	0.0073	0.2674	-0.2099
27	0.02	-0.54	1.4756	0.0044	0.5940	0.0030	0.4052	-0.0318	-0.0089	0.0088	0.2785	-0.2768
28	0.02	0.17	1.4357	0.0064	0.5487	0.0044	0.4047	-0.0287	-0.0084	0.0102	0.2929	-0.3567
29	0.02	0.97	1.4007	0.0075	0.5708	0.0054	0.4077	-0.0382	-0.0093	0.0077	0.2436	-0.2008
30	0.02	1.71	1.3864	0.0103	0.5584	0.0075	0.4045	-0.0429	-0.0084	0.0118	0.1959	-0.2752
31	0.02	2.51	1.3335	0.0125	0.5440	0.0093	0.4079	-0.0287	-0.0084	0.0102	0.2929	-0.3567
32	0.02	3.26	1.3009	0.0146	0.5306	0.0113	0.4079	-0.0445	-0.0098	0.0060	0.2209	-0.1342
33	0.02	4.05	1.3126	0.0206	0.5167	0.0157	0.3937	-0.0293	-0.0086	0.0127	0.2920	-0.4347
34	0.02	4.80	1.2919	0.0175	0.5447	0.0135	0.4213	-0.0347	-0.0094	0.0114	0.2393	-0.2918
35	0.02	5.66	1.2424	0.0170	0.5239	0.0137	0.4217	-0.0390	-0.0103	0.0114	0.2636	-0.2924
36	0.02	6.44	1.1936	0.0173	0.5047	0.0145	0.4224	-0.0359	-0.0107	0.0129	0.2989	-0.3604
37	0.02	7.24	1.1524	0.0197	0.4824	0.0171	0.4186	-0.0364	-0.0118	0.0155	0.3237	-0.4250
38	0.02	8.04	1.1022	0.0216	0.4645	0.0194	0.4214	-0.0264	-0.0131	0.0180	0.4975	-0.6819
39	0.02	8.82	1.0459	0.0212	0.4483	0.0203	0.4284	-0.0253	-0.0139	0.0180	0.5274	-0.6858
40	0.02	9.66	1.0035	0.0206	0.4254	0.0207	0.4239	-0.0354	-0.0146	0.0130	0.4113	-0.3674
41	0.03	10.45	0.9516	0.0214	0.4064	0.0230	0.4271	-0.0275	-0.0166	0.0102	0.6031	-0.3722
42	0.03	11.29	0.8999	0.0228	0.3779	0.0254	0.4199	-0.0384	-0.0157	0.0115	0.4085	-0.2994
43	0.03	12.01	0.8423	0.0231	0.3553	0.0275	0.4218	-0.0367	-0.0152	0.0057	0.4151	-0.1409
44	0.03	12.82	0.7762	0.0233	0.3290	0.0300	0.4278	-0.0394	-0.0157	0.0025	0.3981	-0.0627
45	0.03	13.56	0.7135	0.0234	0.3047	0.0328	0.4230	-0.0565	-0.0158	0.0020	0.2789	-0.0349
46	0.03	14.36	0.6400	0.0230	0.2806	0.0359	0.4384	-0.0544	-0.0167	-0.0019	0.3007	0.0336

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		6R 1.05 1.7		0.0	H2W0F13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	H/Ta	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	0.03	15.09	0.5853	0.0216	0.2579	0.0388	0.4399	-0.0686	-0.0176	-0.0040	0.2571	0.0577
48	0.03	15.92	0.5295	0.0197	0.2325	0.0372	0.4390	-0.0713	-0.0182	-0.0067	0.2558	0.0864
49	0.03	16.68	0.4764	0.0173	0.2040	0.0364	0.4282	-0.0676	-0.0182	-0.0071	0.2687	0.1054
50	0.03	17.52	0.4104	0.0134	0.1818	0.0327	0.4429	-0.0689	-0.0159	-0.0163	0.2309	0.2360
51	0.03	18.33	0.3526	0.0089	0.1514	0.0251	0.4294	-0.0679	-0.0167	-0.0065	0.2465	0.0961
52	0.03	19.15	0.2926	0.0050	0.1264	0.0169	0.4321	-0.0739	-0.0182	-0.0089	0.2468	0.1208
53	0.04	19.94	0.2290	0.0011	0.1066	0.0046	0.4656	-0.0668	-0.0182	-0.0091	0.2719	0.1356
54	0.03	19.95	0.2404	0.0009	0.1034	0.0037	0.4302	-0.0569	-0.0140	-0.0103	0.2453	0.1803

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	UPL4	TRANSITION
6	69	1.10	1.7	0.0	R2W013	0.0	30	0	30	0	FIXED
POINT	ALPHA	REF A	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	-19.85	0.0453	-0.2014	4.4051	-9.9637	0.0030	1.3438	-4.4464		
2	0.02	-19.44	0.0863	-0.2958	4.9094	-10.3352	-0.0190	1.2805	-3.4278		
3	0.02	-18.90	0.0484	-0.2787	4.4670	-10.0823	-0.0050	1.2932	-4.7264		
4	0.01	-17.92	0.0747	-0.2788	4.4277	-10.1703	-0.0050	1.3015	-5.1454		
5	0.03	-17.09	0.1106	-0.2848	4.1954	-10.0509	-0.0030	1.3001	-2.5754		
6	0.03	-16.32	0.0479	-0.1490	3.9845	-10.0867	0.0090	1.3257	-2.1953		
7	0.02	-15.58	0.0755	-0.2467	3.8962	-10.1660	0.0140	1.3012	-3.2675		
8	0.02	-14.71	0.0356	-0.1768	3.5836	-10.1914	0.0170	1.2768	-4.9674		
9	0.02	-13.98	0.0849	-0.2638	3.6840	-10.1080	0.0170	1.2846	-3.1079		
10	0.02	-13.06	0.0638	-0.1993	3.4249	-9.9691	0.0230	1.2861	-3.1241		
11	0.02	-12.31	0.0779	-0.2690	3.3515	-10.0663	0.0360	1.2826	-3.4539		
12	0.02	-11.56	0.0192	-0.1489	3.2811	-11.0077	0.0230	1.2743	-7.7542		
13	0.03	-10.78	0.0597	-0.1436	3.1624	-10.0276	0.0370	1.2662	-2.4050		
14	0.02	-10.06	0.0433	-0.1716	3.0847	-10.1238	0.0420	1.2635	-3.9635		
15	0.02	-9.31	0.0613	-0.1928	3.0490	-10.1368	0.0440	1.2507	-3.1455		
16	0.02	-8.52	0.0570	-0.1928	3.0563	-10.4170	0.0660	1.2476	-3.3825		
17	0.02	-7.77	0.0166	-0.1452	2.9653	-10.5366	0.0450	1.2538	-8.7494		
18	0.02	-6.95	0.0353	-0.1064	2.8970	-10.4530	0.0340	1.2441	-3.0147		
19	0.02	-6.16	0.0183	-0.0936	2.7816	-10.5044	0.0320	1.2436	-5.1158		
20	0.03	-5.39	0.0354	-0.1075	2.8219	-10.5798	0.0280	1.2387	-2.8972		
21	0.03	-4.63	0.0002	-0.0183	2.7879	-10.5612	0.0190	1.2263	-91.4000		
22	0.02	-3.84	-0.0111	-0.0705	2.6496	-10.4735	0.0180	1.2337	1.8432		
23	0.02	-3.05	0.0155	-0.0667	2.5130	-10.3493	0.0160	1.2391	-4.3032		
24	0.03	-2.22	0.0451	-0.1181	2.4898	-10.2448	0.0120	1.2204	-2.6195		
25	0.02	-1.48	0.0275	-0.0865	2.3668	-10.0766	0.0110	1.2256	-3.1455		
26	0.02	-0.63	0.0493	-0.1460	2.2762	-9.8978	0.0050	1.2019	-2.9619		
27	0.02	0.10	0.0162	-0.0697	2.1699	-9.6530	0.0130	1.1726	-4.3012		
28	0.03	0.87	0.0167	-0.0574	1.9998	-9.3769	0.0140	1.1551	-3.4359		
29	0.02	1.62	0.0200	-0.0680	1.8762	-9.2178	0.0140	1.1446	-3.4000		
30	0.03	2.44	0.0412	-0.0997	1.8739	-9.1065	0.0080	1.1292	-2.4194		
31	0.02	3.15	-0.0220	0.0298	1.7073	-8.8553	0.0160	1.1015	-1.3545		
32	0.03	3.92	0.0044	-0.0052	1.6390	-8.7417	0.0350	1.0961	-1.1727		
33	0.02	4.70	-0.0072	-0.0169	1.5702	-8.5904	0.0030	1.0884	1.5167		
34	0.03	5.49	0.0137	-0.0062	1.4398	-8.3789	0.0040	1.0660	-0.5971		
35	0.02	6.33	0.0087	-0.0374	1.2660	-7.9826	0.0	1.0356	-5.5791		
36	0.03	7.10	0.0029	0.0149	1.2634	-7.8230	0.0060	1.0202	5.1517		
37	0.03	7.92	0.0075	-0.0145	1.1157	-7.5821	-0.0040	0.9960	-1.9433		
38	0.03	8.70	0.0078	-0.0079	0.8459	-7.1555	-0.0040	0.9550	-1.0154		
39	0.03	9.53	0.0101	0.0169	0.8160	-6.9706	-0.0040	0.9309	1.6643		
40	0.03	10.33	-0.0277	0.0468	0.6681	-6.6416	-0.0030	0.9033	-3.4939		
41	0.03	11.10	-0.0197	0.1006	0.4528	-6.3292	-0.0100	0.8531	-5.1056		
42	0.03	11.88	-0.0199	0.1334	0.2828	-6.0671	-0.0120	0.8164	-7.0614		
43	0.03	12.71	-0.0231	0.0813	0.1878	-5.7642	-0.0250	0.7774	-3.5212		
44	0.04	13.42	0.0090	-0.1264	0.0047	-5.5469	-0.0240	0.7381	14.0444		
45	0.03	14.24	-0.0176	0.1186	-0.0783	-5.3057	-0.0310	0.7084	-6.7404		
46	0.04	14.96	-0.0090	0.1386	-0.3634	-4.9627	-0.0350	0.6591	-15.4000		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MANTIN MISSILE TAILS EFFECTS DATA

TEST PART	WALCH	AX10-6	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	69	1.10	1.7	0.0	H240F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP		
47	0.03	15.76	-0.0251	0.1461	-0.4743	-4.7032	-0.0280	0.6273	-5.8223		
48	0.04	16.51	-0.0127	0.1818	-0.7034	-4.3625	-0.0250	0.5732	-14.3134		
49	0.04	17.32	0.0077	0.0972	-1.0571	-4.0434	-0.0390	0.5222	12.6260		
50	0.03	18.15	0.0119	0.0183	-1.0910	-3.8450	-0.0440	0.4911	1.5412		
51	0.04	18.95	0.0152	0.1027	-1.4101	-3.5971	-0.0390	0.4355	6.7579		
52	0.04	19.73	-0.0085	0.3259	-1.6456	-3.4484	-0.0210	0.3980	-3.6825		
53	0.04	20.09	-0.0698	0.3657	-1.7046	-3.3918	-0.0190	0.3876	-5.2395		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART FACH RX10-6												
69 1.10 1.7 0.0 M2WOF13 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.02	-19.85	1.4039	-0.0387	0.6485	-0.0282	0.4043	0.0457	0.0017	0.0121	0.0361	0.2654
2	0.02	-19.44	1.5927	-0.0389	0.6477	-0.0244	0.4067	0.0477	0.0041	0.0078	0.0850	0.1634
3	0.02	-18.90	1.5936	-0.0370	0.6411	-0.0236	0.4073	0.0380	0.0015	0.0009	0.0395	0.0227
4	0.01	-17.92	1.5820	-0.0360	0.6431	-0.0232	0.4065	0.0410	0.0042	0.0034	0.1025	0.0820
5	0.03	-17.04	1.5638	-0.0349	0.6348	-0.0223	0.4060	0.0274	0.0035	-0.0039	0.1287	-0.1412
6	0.03	-16.32	1.5609	-0.0336	0.6384	-0.0215	0.4067	0.0186	-0.0017	-0.0076	-0.0928	-0.4087
7	0.02	-15.58	1.5521	-0.0321	0.6279	-0.0207	0.4045	0.0186	0.0013	-0.0088	0.0686	-0.4732
8	0.02	-14.71	1.5339	-0.0310	0.6247	-0.0202	0.4072	0.0114	0.0003	-0.0156	0.0263	-1.3685
9	0.02	-13.80	1.5280	-0.0296	0.6232	-0.0194	0.4079	0.0154	0.0026	-0.0120	0.1657	-0.7772
10	0.02	-13.08	1.5156	-0.0245	0.6192	-0.0188	0.4085	0.0066	0.0017	-0.0172	0.2615	-2.6062
11	0.02	-12.31	1.5156	-0.0273	0.6211	-0.0180	0.4045	0.0076	0.0011	-0.0158	0.1382	-2.0747
12	0.02	-11.56	1.4959	-0.0255	0.6146	-0.0171	0.4109	0.0020	0.0017	-0.0193	0.8630	-9.6668
13	0.03	-10.78	1.5102	-0.0242	0.6202	-0.0160	0.4107	0.0028	-0.0012	-0.0162	-0.4288	-5.7739
14	0.02	-10.08	1.5101	-0.0232	0.6207	-0.0153	0.4094	0.0003	0.0022	-0.0232	7.2545	-77.3334
15	0.02	-9.31	1.5125	-0.0230	0.6294	-0.0150	0.4107	0.0069	-0.0007	-0.0175	-0.0479	-2.5364
16	0.02	-8.52	1.5453	-0.0235	0.6418	-0.0152	0.4153	0.0018	-0.0015	-0.0170	-0.8339	-9.4446
17	0.02	-7.77	1.5428	-0.0222	0.6426	-0.0144	0.4165	-0.0123	0.0	-0.0200	0.0	2.2763
18	0.02	-6.95	1.5209	-0.0200	0.6348	-0.0135	0.4157	-0.0028	-0.0011	-0.0192	0.4020	6.8649
19	0.02	-6.18	1.5246	-0.0185	0.6320	-0.0121	0.4145	-0.0122	-0.0008	-0.0229	0.0615	1.8742
20	0.03	-5.39	1.5280	-0.0165	0.6311	-0.0108	0.4130	-0.0091	-0.0008	-0.0195	0.0907	2.1464
21	0.03	-4.63	1.5072	-0.0157	0.6266	-0.0104	0.4157	-0.0092	-0.0005	-0.0193	0.0571	2.0941
22	0.02	-3.84	1.4925	-0.0143	0.6206	-0.0096	0.4158	-0.0195	-0.0008	-0.0243	0.0385	1.2460
23	0.02	-3.05	1.4476	-0.0140	0.6182	-0.0098	0.4155	-0.0079	-0.0004	-0.0196	0.0475	2.4851
24	0.03	-2.27	1.4502	-0.0133	0.6133	-0.0091	0.4212	-0.0035	0.0007	-0.0146	0.1930	-4.1811
25	0.02	-1.48	1.4258	-0.0120	0.6034	-0.0088	0.4232	-0.0103	-0.0002	-0.0204	0.0146	1.9837
26	0.02	-0.63	1.3840	-0.0113	0.5880	-0.0082	0.4247	-0.0064	0.0009	-0.0163	0.1407	-2.5418
27	0.02	0.19	1.3475	-0.0107	0.5753	-0.0079	0.4269	-0.0064	0.0009	-0.0143	1.0006	-15.8890
28	0.03	0.87	1.3143	-0.0080	0.5599	-0.0061	0.4247	-0.0094	-0.0007	-0.0215	0.0682	2.1716
29	0.02	1.62	1.2901	-0.0067	0.5519	-0.0052	0.4259	-0.0076	0.0004	-0.0161	0.1443	-6.2057
30	0.03	2.44	1.2719	-0.0035	0.5300	-0.0028	0.4214	-0.0020	0.0	-0.0178	0.0	8.8832
31	0.02	3.15	1.2441	-0.0026	0.5216	0.0021	0.4146	-0.0134	-0.0012	-0.0227	0.0496	1.6914
32	0.03	3.92	1.2440	-0.0029	0.5376	-0.0024	0.4321	-0.0088	-0.0012	-0.0207	0.1364	2.3559
33	0.02	4.70	1.2030	-0.0017	0.5198	-0.0014	0.4321	-0.0117	-0.0014	-0.0245	0.1219	2.0939
34	0.03	5.49	1.1534	0.0005	0.4958	0.0004	0.4298	-0.0029	-0.0005	-0.0191	0.1811	6.5746
35	0.02	6.33	1.0952	0.0039	0.4714	0.0036	0.4301	0.0023	-0.0008	-0.0196	-0.3263	-8.5363
36	0.03	7.10	1.0520	0.0045	0.4582	0.0043	0.4353	-0.0069	-0.0012	-0.0232	0.1740	3.3622
37	0.03	7.92	1.0043	0.0045	0.4382	0.0045	0.4367	0.0023	-0.0007	-0.0196	-0.2937	-8.5363
38	0.03	8.70	0.9457	0.0064	0.4164	0.0067	0.4403	-0.0002	-0.0009	-0.0197	4.5028	98.3332
39	0.03	9.53	0.8442	0.0072	0.3955	0.0081	0.4423	0.0022	-0.0004	-0.0192	-0.4093	-8.7122
40	0.03	10.33	0.8439	0.0083	0.3735	0.0098	0.4427	-0.0040	-0.0018	-0.0245	0.4503	6.1332
41	0.03	11.10	0.7418	0.0087	0.3460	0.0111	0.4425	0.0026	-0.0008	-0.0206	-0.2886	-7.9360
42	0.03	11.88	0.7298	0.0092	0.3239	0.0127	0.4439	0.0023	-0.0015	-0.0193	-0.6526	-8.4059
43	0.03	12.71	0.6715	0.0086	0.2966	0.0129	0.4417	0.0036	-0.0013	-0.0195	-0.3544	-5.4168
44	0.04	13.42	0.6180	0.0080	0.2759	0.0130	0.4464	0.0064	-0.0015	-0.0203	-0.2345	-3.1668
45	0.03	14.24	0.4565	0.0069	0.2486	0.0124	0.4467	0.0017	-0.0020	-0.0216	-1.1919	-12.7258
46	0.04	14.96	0.4995	0.0055	0.2203	0.0110	0.4410	0.0125	-0.0014	-0.0149	-0.1081	-1.1148

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST POINT	MACH	RETA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.10	1.7	0.0	0.20	0.13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	RETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	0.03	15.76	0.4346	0.0030	0.1958	0.0069	0.4504	0.0107	-0.0014	-0.0171	-0.1333	-1.6014
48	0.04	16.51	0.3679	-0.0003	0.1699	-0.0008	0.4619	0.0036	-0.0020	-0.0149	-0.5629	-5.7501
49	0.04	17.32	0.2994	-0.0032	0.1430	-0.0105	0.4776	0.0085	-0.0026	-0.0141	-0.3002	-2.1256
50	0.03	18.15	0.2536	-0.0059	0.1230	-0.0234	0.4851	0.0216	-0.0015	-0.0095	-0.0695	-0.4399
51	0.04	18.95	0.2023	-0.0092	0.1026	-0.0453	0.5073	0.0140	-0.0008	-0.0151	-0.0590	-1.0811
52	0.04	19.73	0.1449	-0.0129	0.0792	-0.0891	0.5466	-0.0007	-0.0027	-0.0221	3.8595	31.6189
53	0.04	20.09	0.1301	-0.0140	0.0714	-0.1074	0.5486	-0.0145	-0.0029	-0.0281	0.2018	1.9401

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	69	1.10	1.7	0.0	02W0F13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CMF3	CM3	CM3	XCMP3	YCP3	CMF4	CM4	CM4	XCMP4	YCP4
1	0.02	-19.85	1.6291	-0.0260	0.6492	-0.0160	0.3987	-0.1009	-0.0169	-0.0024	0.1675	0.6237
2	0.02	-19.44	1.6371	-0.0261	0.6507	-0.0159	0.3974	-0.1027	-0.0150	0.0032	0.1463	-0.0317
3	0.02	-18.90	1.6095	-0.0243	0.6413	-0.0151	0.3984	-0.1026	-0.0155	0.0031	0.1508	-0.0307
4	0.01	-17.92	1.6198	-0.0229	0.6407	-0.0141	0.3955	-0.1055	-0.0159	0.0017	0.1509	-0.0159
5	0.03	-17.09	1.5940	-0.0209	0.6304	-0.0131	0.3950	-0.1052	-0.0161	0.0005	0.1528	-0.0046
6	0.03	-16.32	1.5723	-0.0189	0.6222	-0.0119	0.3957	-0.0888	-0.0149	0.0022	0.1673	-0.0249
7	0.02	-15.58	1.5692	-0.0176	0.6225	-0.0112	0.3967	-0.0998	-0.0149	0.0053	0.1490	-0.0529
8	0.02	-14.71	1.5667	-0.0160	0.6147	-0.0102	0.3974	-0.0935	-0.0143	0.0063	0.1527	-0.0672
9	0.02	-13.88	1.5539	-0.0145	0.6117	-0.0093	0.3937	-0.0928	-0.0146	0.0044	0.1571	-0.0476
10	0.02	-13.08	1.5376	-0.0124	0.6052	-0.0091	0.3936	-0.0934	-0.0143	0.0063	0.1528	-0.0676
11	0.02	-12.31	1.5178	-0.0110	0.6000	-0.0073	0.3953	-0.0842	-0.0134	0.0094	0.1586	-0.1122
12	0.02	-11.56	1.5147	-0.0098	0.6004	-0.0064	0.3964	-0.0895	-0.0149	0.0053	0.1669	-0.0590
13	0.03	-10.76	1.5004	-0.0081	0.5902	-0.0054	0.3934	-0.0903	-0.0140	0.0077	0.1546	-0.0854
14	0.02	-10.08	1.5101	-0.0068	0.5908	-0.0045	0.3913	-0.1073	-0.0163	0.0031	0.1593	-0.0308
15	0.02	-9.31	1.5104	-0.0054	0.5908	-0.0036	0.3912	-0.0931	-0.0144	0.0062	0.1546	-0.0670
16	0.02	-8.57	1.5070	-0.0044	0.5918	-0.0029	0.3927	-0.0672	-0.0121	0.0080	0.1798	-0.1192
17	0.02	-7.77	1.5750	-0.0061	0.6182	-0.0039	0.3925	-0.0961	-0.0154	0.0048	0.1603	-0.0501
18	0.02	-6.95	1.5586	-0.0050	0.6166	-0.0032	0.3961	-0.0680	-0.0116	0.0105	0.1711	-0.1550
19	0.02	-6.18	1.5683	-0.0043	0.6195	-0.0027	0.3950	-0.0709	-0.0119	0.0091	0.1683	-0.1280
20	0.03	-5.39	1.5555	-0.0020	0.6203	-0.0013	0.3988	-0.0742	-0.0119	0.0088	0.1608	-0.1183
21	0.03	-4.53	1.5591	-0.0009	0.6164	-0.0006	0.3953	-0.0674	-0.0113	0.0080	0.1681	-0.1193
22	0.02	-3.84	1.5449	-0.0010	0.6194	-0.0005	0.3958	-0.0899	-0.0134	0.0058	0.1494	-0.0650
23	0.02	-3.05	1.5493	-0.0011	0.6181	-0.0007	0.3990	-0.0741	-0.0119	0.0088	0.1610	-0.1189
24	0.03	-2.22	1.5279	0.0005	0.6062	0.0003	0.3967	-0.0681	-0.0105	0.0105	0.1543	-0.1543
25	0.02	-1.48	1.5107	0.0011	0.6080	0.0007	0.4024	-0.0680	-0.0107	0.0104	0.1567	-0.1535
26	0.02	-0.63	1.4828	0.0035	0.5931	0.0023	0.4000	-0.0555	-0.0097	0.0132	0.1744	-0.2380
27	0.02	0.10	1.4316	0.0050	0.5767	0.0035	0.4028	-0.0549	-0.0097	0.0136	0.1644	-0.2305
28	0.03	0.87	1.3966	0.0064	0.5619	0.0046	0.4024	-0.0682	-0.0101	0.0111	0.1475	-0.1624
29	0.02	1.62	1.3740	0.0091	0.5496	0.0066	0.4000	-0.0589	-0.0096	0.0136	0.1631	-0.2305
30	0.03	2.44	1.3431	0.0101	0.5407	0.0075	0.4026	-0.0657	-0.0097	0.0138	0.1474	-0.2102
31	0.02	3.15	1.2977	0.0143	0.5235	0.0111	0.4034	-0.0642	-0.0099	0.0111	0.1453	-0.1624
32	0.03	3.92	1.2800	0.0185	0.5156	0.0144	0.4078	-0.0680	-0.0105	0.0104	0.1545	-0.1535
33	0.02	4.70	1.2747	0.0117	0.5329	0.0092	0.4181	-0.0674	-0.0110	0.0085	0.1637	-0.1267
34	0.03	5.49	1.2339	0.0139	0.5099	0.0113	0.4133	-0.0654	-0.0116	0.0138	0.1779	-0.2111
35	0.02	6.33	1.1835	0.0164	0.4853	0.0138	0.4101	-0.0686	-0.0126	0.0135	0.1838	-0.1974
36	0.03	7.10	1.1336	0.0173	0.4685	0.0152	0.4134	-0.0713	-0.0129	0.0115	0.1810	-0.1619
37	0.03	7.92	1.0941	0.0167	0.4570	0.0153	0.4177	-0.0683	-0.0129	0.0129	0.1890	-0.1495
38	0.03	8.70	1.0454	0.0193	0.4299	0.0183	0.4074	-0.0582	-0.0119	0.0135	0.2386	-0.2321
39	0.03	9.53	0.9931	0.0203	0.4074	0.0205	0.4182	-0.0674	-0.0155	0.0129	0.2291	-0.1904
40	0.03	10.33	0.9469	0.0218	0.3836	0.0228	0.4009	-0.0831	-0.0159	0.0075	0.1915	-0.0904
41	0.03	11.10	0.8936	0.0218	0.3607	0.0244	0.4031	-0.0831	-0.0167	0.0075	0.2014	-0.0904
42	0.03	11.88	0.8388	0.0218	0.3417	0.0260	0.4074	-0.0831	-0.0167	0.0075	0.2014	-0.0904
43	0.03	12.71	0.7896	0.0221	0.3189	0.0280	0.4039	-0.0927	-0.0186	0.0063	0.2010	-0.0685
44	0.04	13.42	0.7223	0.0223	0.2930	0.0309	0.4057	-0.0976	-0.0191	-0.0003	0.1963	0.0030
45	0.03	14.24	0.6668	0.0210	0.2691	0.0315	0.4036	-0.1029	-0.0194	-0.0057	0.1883	0.0550
46	0.04	14.96	0.6038	0.0197	0.2470	0.0327	0.4091	-0.1001	-0.0200	-0.0030	0.2004	0.0382

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	REYNOLDS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	69	1.10	1.7	0.0	B2W0F13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	HFA	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
47	0.03	15.76	0.5434	0.0176	0.2185	0.0324	0.4016	-0.1034	-0.0220	-0.0020	0.2129	0.0196
48	0.04	16.51	0.5015	0.0146	0.1917	0.0290	0.3823	-0.1068	-0.0215	-0.0022	0.2012	0.0202
49	0.04	17.32	0.4348	0.0117	0.1668	0.0268	0.3618	-0.1057	-0.0216	-0.0065	0.2047	0.0614
50	0.03	18.15	0.3934	0.0092	0.1444	0.0233	0.3670	-0.1018	-0.0222	-0.0082	0.2184	0.0405
51	0.04	18.95	0.3764	0.0049	0.1174	0.0150	0.3596	-0.1106	-0.0261	-0.0106	0.2357	0.0961
52	0.04	19.73	0.2703	0.0089	0.0946	0.0033	0.3499	-0.1087	-0.0258	-0.0055	0.2370	0.0505
53	0.04	20.09	0.2606	0.0	0.0883	0.0	0.3386	-0.1116	-0.0264	-0.0070	0.2362	0.0624

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	71	0.97	1.7	0.0	B2NOF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.82	0.2313	-0.7757	4.4934	-10.5532	-0.0150	1.0683	-3.3542		
2	0.01	-19.48	0.1285	-0.5058	4.7272	-11.1385	-0.0200	1.0383	-3.9370		
3	0.02	-18.80	0.1401	-0.4621	4.6849	-11.4252	-0.0220	1.0666	-3.2986		
4	0.03	-17.82	0.1718	-0.3465	4.3840	-11.0710	-0.0190	1.0839	-2.0170		
5	0.03	-17.10	0.1527	-0.3687	4.0845	-11.0586	-0.0110	1.1417	-2.4151		
6	0.03	-16.13	0.1062	-0.2746	4.2364	-11.1033	-0.0020	1.1016	-2.5864		
7	0.01	-15.49	-0.0252	-0.2037	4.0050	-11.4922	-0.0120	1.1030	8.0841		
8	0.04	-14.65	0.1811	-0.2485	3.8231	-10.9096	-0.0010	1.0758	-1.6485		
9	0.02	-13.80	0.0690	-0.2256	3.8075	-10.7188	-0.0050	1.0698	-3.2696		
10	0.02	-12.91	0.0419	-0.2016	3.7775	-10.6598	-0.0030	1.0614	-4.8129		
11	0.03	-12.21	0.0960	-0.2504	3.2182	-10.4357	0.0080	1.0943	-2.6083		
12	0.03	-11.36	0.0796	-0.2074	3.5733	-10.5009	0.0030	1.0507	-2.8060		
13	0.03	-10.65	0.1494	-0.3591	3.2921	-10.0512	0.0070	1.0243	-2.4040		
14	0.02	-9.89	0.0382	-0.2175	3.0957	-10.1142	0.0070	1.0557	-5.6432		
15	0.02	-9.12	0.0584	-0.2467	3.0998	-9.9650	0.0120	1.0249	-4.2253		
16	0.01	-8.44	0.0221	-0.2359	2.8740	-9.7399	0.0140	1.0136	-10.6760		
17	0.02	-7.58	0.0434	-0.2007	2.8945	-9.7526	0.0120	1.0097	-4.6258		
18	0.01	-6.69	0.0074	-0.2313	2.7576	-9.3390	0.0190	0.9738	-31.2649		
19	0.02	-5.94	0.0480	-0.2312	2.7873	-9.3955	0.0140	0.9679	-4.8167		
20	0.02	-5.24	0.0629	-0.2690	2.4715	-9.2263	0.0280	0.9706	-4.2776		
21	0.02	-4.45	0.0454	-0.2145	2.4337	-9.1934	0.0170	0.9603	-4.7260		
22	0.02	-3.69	0.0610	-0.2674	2.4486	-9.3332	0.0250	0.9535	-4.3836		
23	0.02	-2.83	0.1076	-0.3746	2.3943	-9.5242	0.0330	0.9543	-3.4818		
24	0.02	-2.09	0.0439	-0.2164	2.4677	-9.8139	0.0270	0.9528	-4.9307		
25	0.02	-1.30	-0.0026	-0.1253	2.3104	-10.0897	0.0280	0.9579	48.2153		
26	0.02	-0.49	0.0499	-0.2528	2.3850	-10.0701	0.0130	0.9339	-5.0673		
27	0.01	0.27	0.0412	-0.2566	2.3852	-10.1164	0.0150	0.9566	-6.2301		
28	0.02	1.00	0.0703	-0.2704	2.1692	-9.8710	0.0240	0.9380	-3.8467		
29	0.02	1.73	0.0238	-0.1703	2.1464	-9.7891	0.0120	0.9323	-7.1563		
30	0.02	2.53	0.0645	-0.2583	2.0337	-9.5483	0.0060	0.9261	-4.0047		
31	0.02	3.26	0.0572	-0.2261	1.8683	-9.3037	0.0120	0.9079	-3.9524		
32	0.02	4.05	0.0499	-0.2348	1.7950	-9.0281	0.0040	0.8951	-4.7066		
33	0.02	4.84	0.0402	-0.1503	1.6251	-8.6763	0.0100	0.8637	-3.7383		
34	0.02	5.65	0.0329	-0.1960	1.4581	-8.3475	0.0060	0.8336	-5.9593		
35	0.02	6.44	0.0655	-0.2517	1.3853	-8.0686	0.0030	0.8010	-3.8427		
36	0.02	7.25	0.0608	-0.2591	1.2550	-7.8223	0.0040	0.7599	-4.2618		
37	0.02	8.02	0.0487	-0.1712	0.9795	-7.4385	0.0080	0.7126	-3.5150		
38	0.02	8.88	0.0525	-0.2065	1.0465	-7.2673	0.0050	0.6883	-3.9333		
39	0.02	9.64	0.0398	-0.1577	0.8072	-6.8533	0.0060	0.6366	-3.9628		
40	0.02	10.47	0.0534	-0.1747	0.6547	-6.5669	-0.0030	0.5946	-3.2727		
41	0.02	11.24	0.0231	-0.1203	0.4557	-6.3003	0.0030	0.5522	-5.2095		
42	0.03	12.06	0.0716	-0.2282	0.4325	-6.0189	-0.0050	0.5239	-3.1877		
43	0.02	12.80	0.0253	-0.0844	0.1592	-5.6611	0.0010	0.4831	-3.3368		
44	0.02	13.54	0.0169	-0.0747	0.1195	-5.4466	-0.0090	0.4512	-4.4177		
45	0.02	14.33	0.0301	-0.1321	-0.2266	-4.9291	-0.0130	0.4125	-4.3900		
46	0.04	15.08	0.1157	-0.1320	-0.0562	-5.0337	-0.0190	0.3973	-1.1407		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	71	0.97	1.7	0.0	B2W0F12	D.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.03	15.88	0.0477	-0.1248	-0.4266	-4.4970	-0.0260	0.3191	-2.6159		
48	0.01	16.65	-0.0430	-0.1448	-0.7538	-3.9900	-0.0150	0.2620	3.3674		
49	0.03	17.49	0.0602	-0.0583	-0.7796	-3.8879	-0.0210	0.2415	-0.9681		
50	0.03	18.32	0.0322	-0.0331	-0.8736	-3.7753	-0.0150	0.2348	-1.0273		
51	0.03	19.12	0.0132	-0.0515	-1.3004	-3.2157	-0.0050	0.1431	-3.9000		
52	0.04	19.93	0.0136	0.1189	-1.2711	-3.3127	-0.0120	0.1474	8.7471		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	71	U.97	1.7	0.0	B2WUF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-19.82	1.4637	-0.0098	0.4589	-0.0067	0.3135	0.1141	-0.0033	0.0312	-0.0289	0.2736
2	0.01	-19.48	1.4551	-0.0083	0.4597	-0.0057	0.3159	0.0838	-0.0058	0.0307	-0.0698	0.3666
3	0.02	-18.80	1.4406	-0.0101	0.4566	-0.0070	0.3170	0.0475	-0.0005	0.0072	-0.0116	0.1522
4	0.03	-17.82	1.4263	-0.0100	0.4498	-0.0070	0.3153	0.0326	0.0022	0.0030	0.0675	0.0909
5	0.03	-17.10	1.4292	-0.0106	0.4552	-0.0074	0.3185	0.0328	0.0023	0.0019	0.0701	0.0588
6	0.03	-16.13	1.4021	-0.0092	0.4477	-0.0066	0.3193	0.0189	-0.0000	-0.0031	-0.0026	-0.1641
7	0.01	-15.49	1.3855	-0.0091	0.4446	-0.0066	0.3209	0.0303	0.0023	0.0005	0.0775	0.0164
8	0.04	-14.65	1.3642	-0.0076	0.4370	-0.0056	0.3203	0.0176	0.0011	-0.0045	0.0625	-0.2577
9	0.02	-13.80	1.3559	-0.0074	0.4332	-0.0055	0.3195	0.0208	0.0036	-0.0077	0.1730	-0.3687
10	0.02	-12.91	1.3144	-0.0068	0.4217	-0.0052	0.3208	0.0129	0.0046	-0.0101	0.3565	-0.7831
11	0.03	-12.21	1.3318	-0.0072	0.4282	-0.0054	0.3215	0.0166	0.0011	-0.0062	0.0693	-0.3716
12	0.03	-11.36	1.2937	-0.0058	0.4151	-0.0045	0.3208	0.0087	0.0006	-0.0078	0.0747	-0.8967
13	0.03	-10.65	1.2656	-0.0057	0.4104	-0.0045	0.3243	0.0109	0.0027	-0.0067	0.2477	-0.6117
14	0.02	-9.89	1.2536	-0.0051	0.4072	-0.0041	0.3248	0.0098	0.0008	-0.0068	0.0816	-0.6974
15	0.02	-9.12	1.2395	-0.0050	0.4042	-0.0040	0.3261	0.0075	0.0013	-0.0090	0.1800	-1.2001
16	0.01	-8.44	1.2076	-0.0040	0.3944	-0.0033	0.3266	0.0070	0.0009	-0.0066	0.1285	-0.9382
17	0.02	-7.58	1.2029	-0.0043	0.3946	-0.0036	0.3281	0.0031	0.0011	-0.0076	0.3709	-2.4410
18	0.01	-6.69	1.1703	-0.0031	0.3824	-0.0027	0.3267	0.0098	0.0008	-0.0068	0.0816	-0.6974
19	0.02	-5.94	1.1618	-0.0034	0.3815	-0.0029	0.3284	0.0043	0.0007	-0.0066	0.1628	-1.5273
20	0.02	-5.24	1.1632	-0.0039	0.3857	-0.0034	0.3316	0.0060	0.0014	-0.0083	0.2333	-1.3836
21	0.02	-4.45	1.1520	-0.0031	0.3790	-0.0027	0.3290	0.0074	0.0012	-0.0083	0.1621	-1.1262
22	0.02	-3.69	1.1802	-0.0017	0.3923	-0.0014	0.3324	0.0181	-0.0002	-0.0002	-0.0110	-0.0093
23	0.02	-2.83	1.2624	0.0008	0.4285	0.0006	0.3395	0.0350	-0.0017	0.0056	-0.0486	0.1589
24	0.02	-2.09	1.2538	0.0015	0.4248	0.0012	0.3388	0.0125	-0.0008	-0.0053	-0.0680	-0.4268
25	0.02	-1.30	1.2782	-0.0063	0.4511	-0.0050	0.3529	-0.0037	0.0008	-0.0137	-0.2297	3.7116
26	0.02	-0.49	1.2505	-0.0114	0.4491	-0.0091	0.3591	0.0111	0.0005	-0.0061	0.0495	-0.5497
27	0.01	0.27	1.2319	-0.0217	0.4551	-0.0176	0.3694	0.0071	0.0005	-0.0066	0.0704	-0.9344
28	0.02	1.00	1.2104	-0.0304	0.4617	-0.0251	0.3815	0.0072	0.0009	-0.0075	0.1250	-1.0418
29	0.02	1.73	1.1837	-0.0333	0.4583	-0.0281	0.3872	0.0039	0.0010	-0.0111	0.2564	-2.8463
30	0.02	2.53	1.1510	-0.0367	0.4526	-0.0319	0.3932	0.0121	0.0008	-0.0050	0.0661	-0.4106
31	0.02	3.26	1.1069	-0.0369	0.4424	-0.0334	0.3997	0.0086	0.0009	-0.0077	0.1046	-0.8993
32	0.02	4.05	1.0603	-0.0368	0.4292	-0.0347	0.4048	0.0087	0.0004	-0.0078	0.0517	-0.8967
33	0.02	4.84	1.0105	-0.0368	0.4127	-0.0364	0.4084	-0.0010	0.0009	-0.0132	-0.9498	13.2332
34	0.02	5.65	0.9674	-0.0364	0.3999	-0.0377	0.4134	0.0073	0.0004	-0.0077	0.0616	-1.0503
35	0.02	6.44	0.9136	-0.0370	0.3864	-0.0405	0.4229	0.0158	0.0002	-0.0029	0.0158	-0.1858
36	0.02	7.25	0.8611	-0.0369	0.3718	-0.0428	0.4318	0.0133	0.0007	-0.0044	0.0564	-0.3284
37	0.02	8.02	0.8063	-0.0370	0.3549	-0.0459	0.4402	0.0114	0.0001	-0.0074	0.0132	-0.6492
38	0.02	8.88	0.7621	-0.0366	0.3438	-0.0480	0.4512	0.0207	0.0002	-0.0058	0.0121	-0.2803
39	0.02	9.64	0.7185	-0.0362	0.3296	-0.0504	0.4587	0.0090	0.0005	-0.0089	0.0611	-0.9890
40	0.02	10.47	0.6544	-0.0361	0.3092	-0.0552	0.4726	0.0165	0.0005	-0.0055	0.0303	-0.3335
41	0.02	11.24	0.6062	-0.0353	0.2896	-0.0583	0.4777	0.0166	0.0001	-0.0056	0.0060	-0.3355
42	0.03	12.06	0.5629	-0.0351	0.2777	-0.0623	0.4934	0.0363	-0.0000	-0.0004	-0.0014	-0.0111
43	0.02	12.80	0.5024	-0.0343	0.2586	-0.0683	0.5135	0.0160	0.0002	-0.0088	0.0156	-0.5480
44	0.02	13.54	0.4576	-0.0337	0.2424	-0.0736	0.5296	0.0156	-0.0000	-0.0068	-0.0032	-0.4360
45	0.02	14.33	0.4022	-0.0327	0.2219	-0.0813	0.5517	0.0302	-0.0003	-0.0034	-0.0099	-0.1138
46	0.04	15.08	0.3557	-0.0316	0.2040	-0.0889	0.5735	0.0273	0.0000	-0.0031	0.0018	-0.1137

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		71		0.97 1.7		0.0	B2WOF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.03	15.88	0.2950	-0.0302	0.1786	-0.1023	0.6053	0.0312	0.0000	-0.0015	0.0016	-0.0482	
48	0.01	16.65	0.2543	-0.0276	0.1613	-0.1085	0.6344	0.0246	-0.0002	-0.0031	-0.0102	-0.1261	
49	0.03	17.49	0.2053	-0.0267	0.1413	-0.1303	0.6883	0.0250	-0.0002	-0.0049	-0.0100	-0.1948	
50	0.03	18.32	0.1689	-0.0257	0.1254	-0.1524	0.7423	0.0289	-0.0004	-0.0031	-0.0138	-0.1062	
51	0.03	19.12	0.1174	-0.0245	0.1031	-0.2087	0.8784	0.0184	-0.0003	-0.0060	-0.0163	-0.3244	
52	0.04	19.93	0.1016	-0.0248	0.0956	-0.2445	0.9415	0.0425	-0.0004	-0.0001	-0.0106	-0.0033	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	NACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	71	0.97	1.7	0.0	BZWO	12	0.0	30	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-19.82	1.5205	0.0021	0.4247	0.0014	0.2793	-0.0529	-0.0041	0.0089	0.0764	-0.1677
2	0.01	-19.48	1.5142	0.0014	0.4227	0.0010	0.2791	-0.0741	-0.0042	0.0054	0.0567	-0.0730
3	0.02	-18.80	1.5927	0.0027	0.4437	0.0017	0.2786	-0.0552	-0.0042	0.0038	0.0761	-0.0690
4	0.03	-17.82	1.5927	0.0051	0.4408	0.0032	0.2768	-0.0446	-0.0045	0.0059	0.1020	-0.1332
5	0.03	-17.10	1.5893	0.0034	0.4408	0.0021	0.2774	-0.0521	-0.0042	0.0061	0.0816	-0.1178
6	0.03	-16.13	1.5635	0.0037	0.4347	0.0024	0.2780	-0.0447	-0.0041	0.0059	0.0928	-0.1321
7	0.01	-15.49	1.5375	0.0039	0.4318	0.0025	0.2809	-0.0669	-0.0046	0.0072	0.0687	-0.1077
8	0.04	-14.65	1.5327	0.0041	0.4228	0.0027	0.2759	-0.0492	-0.0037	0.0091	0.0762	-0.1851
9	0.02	-13.80	1.5183	0.0044	0.4255	0.0029	0.2803	-0.0459	-0.0036	0.0106	0.0795	-0.2311
10	0.02	-12.91	1.5032	0.0053	0.4154	0.0036	0.2763	-0.0444	-0.0041	0.0059	0.0935	-0.1330
11	0.03	-12.21	1.4800	0.0042	0.4123	0.0029	0.2766	-0.0524	-0.0041	0.0087	0.0792	-0.1668
12	0.03	-11.36	1.4361	0.0042	0.4052	0.0029	0.2821	-0.0387	-0.0035	0.0117	0.0904	-0.3024
13	0.03	-10.65	1.4059	0.0058	0.3915	0.0042	0.2785	-0.0421	-0.0041	0.0115	0.0974	-0.2725
14	0.02	-9.89	1.4018	0.0046	0.3915	0.0033	0.2796	-0.0306	-0.0035	0.0088	0.1144	-0.2877
15	0.02	-9.12	1.3941	0.0054	0.3868	0.0039	0.2774	-0.0385	-0.0035	0.0111	0.0909	-0.2876
16	0.01	-8.44	1.3650	0.0057	0.3826	0.0042	0.2803	-0.0280	-0.0031	0.0130	0.1107	-0.4632
17	0.02	-7.58	1.3518	0.0057	0.3775	0.0043	0.2793	-0.0391	-0.0035	0.0137	0.0895	-0.3496
18	0.01	-6.69	1.3011	0.0070	0.3610	0.0054	0.2775	-0.0386	-0.0033	0.0116	0.0855	-0.3015
19	0.02	-5.94	1.2996	0.0068	0.3597	0.0052	0.2768	-0.0423	-0.0039	0.0121	0.0922	-0.2862
20	0.02	-5.24	1.2960	0.0071	0.3610	0.0055	0.2786	-0.0423	-0.0036	0.0121	0.0851	-0.2862
21	0.02	-4.45	1.2881	0.0075	0.3631	0.0058	0.2819	-0.0430	-0.0035	0.0148	0.0814	-0.3435
22	0.02	-3.69	1.2928	0.0080	0.3597	0.0062	0.2782	-0.0324	-0.0033	0.0161	0.1034	-0.4970
23	0.02	-2.83	1.2945	0.0100	0.3623	0.0078	0.2799	-0.0393	-0.0033	0.0144	0.0840	-0.3665
24	0.02	-2.09	1.3580	0.0134	0.3887	0.0099	0.2862	-0.0393	-0.0035	0.0144	0.0840	-0.3665
25	0.02	-1.30	1.4045	0.0100	0.4123	0.0072	0.2936	-0.0462	-0.0036	0.0126	0.0779	-0.2728
26	0.02	-0.49	1.4192	0.0053	0.4240	0.0037	0.3023	-0.0437	-0.0035	0.0174	0.0812	-0.3591
27	0.01	0.27	1.3994	-0.0043	0.4376	-0.0031	0.3127	-0.0369	-0.0036	0.0199	0.0989	-0.5394
28	0.02	1.00	1.3882	-0.0107	0.4335	-0.0077	0.3123	-0.0293	-0.0042	0.0196	0.1433	-0.6702
29	0.02	1.73	1.3756	-0.0207	0.4454	-0.0151	0.3238	-0.0438	-0.0041	0.0188	0.0947	-0.4293
30	0.02	2.53	1.3550	-0.0229	0.4397	-0.0169	0.3245	-0.0293	-0.0042	0.0196	0.1433	-0.6702
31	0.02	3.26	1.3011	-0.0254	0.4321	-0.0195	0.3321	-0.0399	-0.0042	0.0183	0.1065	-0.4588
32	0.02	4.05	1.2666	-0.0266	0.4224	-0.0210	0.3335	-0.0404	-0.0042	0.0203	0.1052	-0.5034
33	0.02	4.84	1.2179	-0.0275	0.4079	-0.0226	0.3349	-0.0437	-0.0041	0.0187	0.0949	-0.4288
34	0.02	5.65	1.1756	-0.0272	0.3953	-0.0232	0.3363	-0.0442	-0.0045	0.0214	0.1029	-0.4835
35	0.02	6.44	1.1176	-0.0273	0.3791	-0.0244	0.3392	-0.0407	-0.0053	0.0229	0.1302	-0.5636
36	0.02	7.25	1.0750	-0.0281	0.3665	-0.0261	0.3409	-0.0451	-0.0050	0.0254	0.1108	-0.5626
37	0.02	8.02	1.0207	-0.0287	0.3475	-0.0282	0.3405	-0.0486	-0.0057	0.0252	0.1173	-0.5186
38	0.02	8.88	0.9802	-0.0280	0.3362	-0.0286	0.3430	-0.0524	-0.0064	0.0263	0.1231	-0.5027
39	0.02	9.64	0.9385	-0.0285	0.3206	-0.0304	0.3416	-0.0742	-0.0063	0.0244	0.0856	-0.3285
40	0.02	10.47	0.8738	-0.0282	0.3011	-0.0323	0.3445	-0.0732	-0.0076	0.0210	0.1045	-0.2870
41	0.02	11.24	0.8124	-0.0278	0.2860	-0.0343	0.3520	-0.0706	-0.0101	0.0280	0.1457	-0.3962
42	0.03	12.06	0.7808	-0.0267	0.2675	-0.0342	0.3426	-0.0733	-0.0111	0.0245	0.1521	-0.3339
43	0.02	12.80	0.7144	-0.0274	0.2509	-0.0383	0.3513	-0.0738	-0.0098	0.0245	0.1334	-0.3321
44	0.02	13.54	0.6671	-0.0267	0.2364	-0.0400	0.3543	-0.0796	-0.0083	0.0167	0.1043	-0.2095
45	0.02	14.33	0.6181	-0.0251	0.2160	-0.0406	0.3494	-0.0761	-0.0101	0.0189	0.1334	-0.2489
46	0.04	15.08	0.5590	-0.0241	0.1959	-0.0431	0.3504	-0.0830	-0.0083	0.0150	0.1006	-0.1812

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	CM
6	71	0.97	1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.03	15.88	0.5036	-0.0226	0.1749	-0.0449	0.3473	-0.0897	-0.0054	0.0099	0.0007	-0.1105
48	0.01	16.65	0.4612	-0.0221	0.1560	-0.0479	0.3382	-0.0793	-0.0022	0.0092	0.0284	-0.1157
49	0.03	17.49	0.4045	-0.0210	0.1371	-0.0519	0.3389	-0.0827	-0.0047	0.0103	0.0568	-0.1251
50	0.03	18.32	0.3661	-0.0206	0.1186	-0.0564	0.3239	-0.0757	-0.0029	0.0095	0.0390	-0.1252
51	0.03	19.12	0.3316	-0.0198	0.0996	-0.0598	0.3004	-0.0739	0.0007	0.0119	-0.0101	-0.1607
52	0.04	19.93	0.2750	-0.0185	0.0815	-0.0674	0.2961	-0.1058	-0.0084	0.0151	0.0794	-0.1432

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	72	1.01 1.7	0.0	82WDF12	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	-19.91	0.0697	-0.3215	4.9703	-11.6527	-0.0100	1.1602	-4.6138	
2	0.02	-19.52	0.1077	-0.4117	4.9505	-11.6360	-0.0120	1.1614	-3.8234	
3	0.01	-18.73	0.1004	-0.4585	4.7326	-11.5740	-0.0240	1.1629	-4.5673	
4	0.02	-17.89	0.1279	-0.4140	4.5907	-11.5883	-0.0140	1.1671	-3.2374	
5	0.02	-17.02	0.1225	-0.3814	4.4522	-11.5524	-0.0120	1.1574	-3.1143	
6	0.02	-16.25	0.0905	-0.3836	4.3035	-11.4538	-0.0180	1.1528	-4.2398	
7	0.02	-15.41	0.0926	-0.3516	4.1722	-11.3503	-0.0050	1.1511	-3.7974	
8	0.02	-14.63	0.0826	-0.2986	4.0257	-11.2808	-0.0040	1.1585	-3.6155	
9	0.02	-13.76	0.0689	-0.2864	3.8499	-11.1211	0.0020	1.1582	-4.1576	
10	0.02	-12.96	0.0626	-0.2636	3.7635	-11.1031	0.0020	1.1431	-4.2115	
11	0.02	-12.16	0.0623	-0.2742	3.6300	-10.9433	0.0040	1.1356	-4.4016	
12	0.02	-11.42	0.0519	-0.2366	3.4571	-10.7112	0.0030	1.1275	-4.5599	
13	0.02	-10.70	0.0490	-0.2146	3.3902	-10.7034	0.0060	1.1257	-4.3796	
14	0.02	-9.93	0.0675	-0.2345	3.1855	-10.4399	0.0100	1.1146	-3.4741	
15	0.02	-9.16	0.0727	-0.2317	3.0482	-10.3497	0.0190	1.0998	-3.1882	
16	0.02	-8.36	0.0656	-0.2580	2.9655	-10.1679	0.0220	1.0899	-3.9457	
17	0.02	-7.60	0.0738	-0.2743	2.9245	-10.0755	0.0230	1.0753	-3.7713	
18	0.02	-6.77	0.0579	-0.2270	2.8041	-9.9570	0.0150	1.0662	-3.9216	
19	0.02	-6.01	0.0669	-0.2896	2.7318	-9.9148	0.0260	1.0440	-4.3297	
20	0.02	-5.21	0.0488	-0.3403	2.7373	-10.0425	0.0400	1.0272	-3.8324	
21	0.02	-4.49	0.0764	-0.2789	2.5737	-10.0493	0.0350	1.0322	-3.6513	
22	0.02	-3.68	0.0599	-0.2508	2.6156	-10.2169	0.0140	1.0343	-4.1880	
23	0.02	-2.86	0.0591	-0.2357	2.7178	-10.6651	0.0150	1.0295	-3.9888	
24	0.02	-2.09	0.0644	-0.2441	2.5437	-10.4522	0.0140	1.0211	-3.7913	
25	0.02	-1.30	0.0448	-0.2317	2.4376	-10.3087	0.0180	1.0078	-5.1723	
26	0.02	-0.46	0.0678	-0.2659	2.3580	-10.1423	0.0240	0.9990	-3.9221	
27	0.02	0.25	0.0616	-0.2362	2.2998	-10.0268	0.0120	0.9824	-3.8351	
28	0.02	1.05	0.0609	-0.2112	2.2302	-9.8284	0.0130	0.9671	-3.4690	
29	0.02	1.78	0.0738	-0.2783	2.0546	-9.4856	0.0090	0.9467	-3.7713	
30	0.02	2.56	0.0342	-0.2009	1.9823	-9.2754	0.0070	0.9445	-5.8737	
31	0.02	3.32	0.0505	-0.2107	1.8044	-9.0043	0.0070	0.9145	-4.1723	
32	0.02	4.06	0.0336	-0.1970	1.6688	-8.7515	0.0080	0.8956	-5.8643	
33	0.02	4.92	0.0701	-0.2421	1.5916	-8.4414	0.0050	0.8647	-3.4542	
34	0.02	5.71	0.0507	-0.2180	1.4493	-8.1652	0.0060	0.8353	-4.2994	
35	0.02	6.50	0.0622	-0.2021	1.2010	-7.8337	0.0100	0.7990	-3.2489	
36	0.02	7.29	0.0581	-0.2163	1.1826	-7.5769	0.0030	0.7735	-3.7236	
37	0.02	8.13	0.0325	-0.1875	1.1143	-7.4172	0.0070	0.7532	-5.7692	
38	0.02	8.91	0.0422	-0.1851	0.9125	-7.0047	0.0040	0.7085	-4.3858	
39	0.02	9.73	0.0036	-0.1160	0.7771	-6.7412	0.0050	0.6789	-32.2333	
40	0.02	10.51	0.0370	-0.1498	0.5649	-6.4212	0.0020	0.6383	-4.0486	
41	0.03	11.36	0.0553	-0.1754	0.4440	-6.1739	0.0020	0.6108	-3.1721	
42	0.02	12.11	0.0580	-0.1782	0.3596	-5.9117	-0.0060	0.5730	-3.0724	
43	0.03	12.86	0.0575	-0.1415	0.1274	-5.5356	-0.0100	0.5292	-2.4609	
44	0.03	13.62	0.0613	-0.1468	-0.1018	-5.2188	-0.0150	0.4827	-2.3951	
45	0.03	14.39	0.0401	-0.0611	-0.1308	-5.0862	-0.0140	0.4716	-1.5247	
46	0.03	15.17	0.0380	-0.0852	-0.3302	-4.7011	-0.0200	0.4242	-2.2421	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	72	1.01	1.7	0.0	B2WUF12	0.0	30	0	30	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.03	15.94	0.0248	-0.0307	-0.5203	-4.3279	-0.0090	0.3802	-1.2387
48	0.02	16.75	0.0428	-0.1319	-0.7217	-4.1529	-0.0310	0.3408	-3.0822
49	0.04	17.55	0.0019	0.1593	-0.9947	-3.8568	-0.0090	0.2990	83.8631
50	0.03	18.43	0.0571	-0.1079	-1.1266	-3.7231	-0.0280	0.2592	-1.8904
51	0.03	19.20	0.0487	-0.0922	-1.3009	-3.5230	-0.0220	0.2260	-1.8928

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
		6	72								1.01	1.7
POINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CN2	CB2	XCPF2	YCPF2
1	0.02	-19.91	1.5302	-0.0176	0.4865	-0.0115	0.3179	0.0462	-0.0032	0.0072	-0.0693	0.1557
2	0.02	-19.52	1.5267	-0.0168	0.4831	-0.0110	0.3165	0.0446	-0.0024	0.0078	-0.0538	0.1740
3	0.01	-18.73	1.5090	-0.0166	0.4800	-0.0110	0.3181	0.0580	-0.0004	0.0126	-0.0078	0.2177
4	0.02	-17.89	1.4972	-0.0153	0.4753	-0.0102	0.3175	0.0409	0.0012	0.0037	0.0293	0.0912
5	0.02	-17.02	1.4803	-0.0142	0.4682	-0.0096	0.3163	0.0355	0.0014	-0.0026	0.0394	-0.0724
6	0.02	-16.25	1.4619	-0.0137	0.4656	-0.0094	0.3185	0.0402	0.0029	-0.0004	0.0721	-0.0101
7	0.02	-15.41	1.4508	-0.0127	0.4620	-0.0088	0.3185	0.0286	0.0024	-0.0028	0.0856	-0.0565
8	0.02	-14.63	1.4286	-0.0114	0.4548	-0.0080	0.3184	0.0225	0.0026	-0.0055	0.1178	-0.2446
9	0.02	-13.76	1.4122	-0.0110	0.4503	-0.0078	0.3188	0.0203	0.0038	-0.0083	0.1896	-0.4106
10	0.02	-12.96	1.3958	-0.0101	0.4436	-0.0073	0.3178	0.0101	0.0040	-0.0109	0.4009	-1.0826
11	0.02	-12.16	1.3785	-0.0100	0.4407	-0.0073	0.3197	0.0202	0.0029	-0.0076	0.1460	-0.3747
12	0.02	-11.42	1.3590	-0.0089	0.4337	-0.0066	0.3192	0.0149	0.0031	-0.0079	0.2080	-0.5326
13	0.02	-10.70	1.3441	-0.0084	0.4313	-0.0062	0.3209	0.0113	0.0018	-0.0091	0.1637	-0.8084
14	0.02	-9.93	1.3218	-0.0077	0.4235	-0.0059	0.3204	0.0087	0.0016	-0.0091	0.1896	-1.0461
15	0.02	-9.16	1.3098	-0.0074	0.4221	-0.0056	0.3223	0.0064	0.0007	-0.0102	0.1172	-1.5887
16	0.02	-8.36	1.2929	-0.0073	0.4165	-0.0056	0.3222	0.0073	0.0005	-0.0082	0.0685	-1.1188
17	0.02	-7.60	1.2812	-0.0076	0.4156	-0.0060	0.3244	0.0149	0.0012	-0.0072	0.0839	-0.4856
18	0.02	-6.77	1.2657	-0.0071	0.4112	-0.0056	0.3249	0.0095	0.0008	-0.0066	0.0842	-0.6984
19	0.02	-6.01	1.2785	-0.0066	0.4187	-0.0052	0.3275	0.0156	0.0007	-0.0040	0.0449	-0.2565
20	0.02	-5.21	1.2940	-0.0045	0.4247	-0.0035	0.3282	0.0209	0.0000	-0.0033	0.0024	-0.1546
21	0.02	-4.49	1.3122	-0.0043	0.4358	-0.0033	0.3321	0.0131	0.0018	-0.0054	0.1412	-0.4149
22	0.02	-3.68	1.3013	-0.0035	0.4395	-0.0027	0.3377	0.0152	0.0001	-0.0074	0.0066	-0.4892
23	0.02	-2.86	1.3336	-0.0107	0.4636	-0.0080	0.3476	0.0073	0.0012	-0.0088	0.1712	-1.2010
24	0.02	-2.09	1.3152	-0.0151	0.4623	-0.0115	0.3515	0.0044	0.0010	-0.0077	0.2272	-1.7577
25	0.02	-1.30	1.2870	-0.0212	0.4631	-0.0165	0.3599	0.0058	0.0011	-0.0081	0.1982	-1.3909
26	0.02	-0.46	1.2610	-0.0315	0.4733	-0.0250	0.3753	0.0099	0.0010	-0.0082	0.1010	-0.8284
27	0.02	0.25	1.2266	-0.0334	0.4664	-0.0272	0.3802	0.0076	0.0011	-0.0098	0.1447	-1.2852
28	0.02	1.05	1.1964	-0.0339	0.4588	-0.0283	0.3835	0.0104	0.0012	-0.0105	0.1202	-1.0129
29	0.02	1.78	1.1695	-0.0353	0.4497	-0.0302	0.3845	0.0110	0.0007	-0.0069	0.0636	-0.6304
30	0.02	2.56	1.1204	-0.0370	0.4408	-0.0330	0.3935	0.0085	0.0005	-0.0076	0.0647	-0.8903
31	0.02	3.32	1.0686	-0.0367	0.4287	-0.0344	0.4011	0.0124	0.0009	-0.0073	0.0766	-0.5861
32	0.02	4.06	1.0353	-0.0369	0.4187	-0.0357	0.4044	0.0073	0.0006	-0.0082	0.0822	-1.1188
33	0.02	4.92	0.9789	-0.0369	0.4023	-0.0377	0.4109	0.0184	0.0002	-0.0040	0.0136	-0.2157
34	0.02	5.71	0.9309	-0.0366	0.3898	-0.0393	0.4187	0.0152	0.0004	-0.0074	0.0296	-0.4892
35	0.02	6.50	0.8822	-0.0365	0.3754	-0.0414	0.4255	0.0163	0.0002	-0.0066	0.0153	-0.4030
36	0.02	7.29	0.8326	-0.0362	0.3606	-0.0435	0.4331	0.0204	0.0001	-0.0066	0.0049	-0.3236
37	0.02	8.13	0.7924	-0.0363	0.3490	-0.0458	0.4405	0.0162	0.0003	-0.0061	0.0185	-0.3767
38	0.02	8.91	0.7375	-0.0363	0.3305	-0.0492	0.4487	0.0215	0.0003	-0.0057	0.0140	-0.2668
39	0.02	9.73	0.6926	-0.0357	0.3150	-0.0515	0.4568	0.0167	0.0002	-0.0079	0.0150	-0.4752
40	0.02	10.51	0.6396	-0.0354	0.2986	-0.0553	0.4669	0.0241	-0.0001	-0.0047	-0.0062	-0.1938
41	0.03	11.36	0.5941	-0.0349	0.2833	-0.0587	0.4769	0.0225	-0.0000	-0.0038	-0.0022	-0.1690
42	0.02	12.11	0.5403	-0.0341	0.2657	-0.0631	0.4918	0.0263	0.0000	-0.0029	0.0019	-0.1117
43	0.03	12.86	0.4848	-0.0335	0.2480	-0.0692	0.5116	0.0251	-0.0000	-0.0033	-0.0020	-0.1329
44	0.03	13.62	0.4373	-0.0329	0.2309	-0.0753	0.5277	0.0380	-0.0001	-0.0007	-0.0026	-0.0194
45	0.03	14.39	0.3873	-0.0318	0.2123	-0.0821	0.5482	0.0266	-0.0000	-0.0040	-0.0019	-0.1517
46	0.03	15.17	0.3409	-0.0306	0.1918	-0.0897	0.5625	0.0346	0.0003	-0.0037	0.0087	-0.1061

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		72	1.01	1.7		0.0	B2WUF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.03	15.94	0.2926	-0.0291	0.1724	-0.0996	0.5091	0.0266	0.0002	-0.0039	0.0094	-0.1480	
48	0.02	16.75	0.2373	-0.0273	0.1520	-0.1150	0.6408	0.0368	-0.0002	-0.0008	-0.0068	-0.0228	
49	0.04	17.55	0.2068	-0.0263	0.1366	-0.1274	0.6606	0.0372	-0.0005	-0.0024	-0.0134	-0.0646	
50	0.03	18.43	0.1509	-0.0248	0.1132	-0.1646	0.7500	0.0380	-0.0000	-0.0000	-0.0013	-0.0010	
51	0.03	19.20	0.1237	-0.0241	0.1002	-0.1948	0.8102	0.0461	-0.0000	-0.0001	-0.0011	-0.0030	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		72		1.01 1.7		0.0	B2WOF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	0.02	-14.91	1.6877	0.0044	0.4652	0.0029	0.2756	-0.0604	-0.0048	0.0046	0.0803	-0.0757	
2	0.02	-19.52	1.6901	0.0034	0.4663	0.0020	0.2759	-0.0540	-0.0044	0.0070	0.0815	-0.1297	
3	0.01	-18.73	1.6669	0.0014	0.4691	0.0008	0.2811	-0.0648	-0.0048	0.0076	0.0748	-0.1174	
4	0.02	-17.89	1.6691	-0.0013	0.4667	-0.0008	0.2796	-0.0539	-0.0044	0.0063	0.0816	-0.1176	
5	0.02	-17.02	1.6547	-0.0014	0.4611	-0.0008	0.2787	-0.0546	-0.0041	0.0089	0.0751	-0.1631	
6	0.02	-16.25	1.6445	0.0001	0.4550	0.0001	0.2767	-0.0546	-0.0044	0.0090	0.0806	-0.1650	
7	0.02	-15.41	1.6275	0.0000	0.4477	0.0000	0.2751	-0.0548	-0.0040	0.0095	0.0739	-0.1741	
8	0.02	-14.63	1.5937	0.0006	0.4504	0.0004	0.2829	-0.0480	-0.0040	0.0107	0.0833	-0.2230	
9	0.02	-13.76	1.5912	0.0018	0.4371	0.0012	0.2747	-0.0474	-0.0041	0.0088	0.0865	-0.1858	
10	0.02	-12.96	1.5712	0.0022	0.4328	0.0014	0.2754	-0.0412	-0.0038	0.0119	0.0922	-0.2881	
11	0.02	-12.16	1.5427	0.0030	0.4265	0.0019	0.2764	-0.0472	-0.0044	0.0088	0.0932	-0.1859	
12	0.02	-11.42	1.5288	0.0029	0.4201	0.0019	0.2748	-0.0373	-0.0040	0.0108	0.1072	-0.2888	
13	0.02	-10.70	1.5130	0.0030	0.4165	0.0020	0.2753	-0.0372	-0.0040	0.0107	0.1075	-0.2878	
14	0.02	-9.93	1.4873	0.0030	0.4112	0.0020	0.2765	-0.0410	-0.0040	0.0117	0.0975	-0.2863	
15	0.02	-9.16	1.4685	0.0033	0.4058	0.0022	0.2763	-0.0411	-0.0035	0.0118	0.0851	-0.2872	
16	0.02	-8.36	1.4387	0.0033	0.4022	0.0023	0.2796	-0.0380	-0.0038	0.0139	0.1000	-0.3668	
17	0.02	-7.60	1.4183	0.0031	0.3536	0.0022	0.2771	-0.0409	-0.0040	0.0118	0.0978	-0.2878	
18	0.02	-6.77	1.4186	0.0030	0.3923	0.0021	0.2766	-0.0487	-0.0040	0.0146	0.0821	-0.2992	
19	0.02	-6.01	1.3900	0.0035	0.3891	0.0026	0.2799	-0.0280	-0.0035	0.0166	0.1268	-0.5918	
20	0.02	-5.21	1.3890	0.0043	0.3918	0.0031	0.2820	-0.0353	-0.0034	0.0173	0.0977	-0.4911	
21	0.02	-4.49	1.4176	0.0073	0.3975	0.0051	0.2804	-0.0416	-0.0036	0.0143	0.0913	-0.3447	
22	0.02	-3.68	1.4560	0.0092	0.4172	0.0063	0.2865	-0.0527	-0.0034	0.0156	0.0645	-0.2968	
23	0.02	-2.86	1.4977	0.0052	0.4472	0.0035	0.2986	-0.0423	-0.0035	0.0169	0.0839	-0.3996	
24	0.02	-2.09	1.4961	0.0004	0.4466	0.0003	0.2965	-0.0424	-0.0035	0.0170	0.0837	-0.4003	
25	0.02	-1.30	1.4702	-0.0035	0.4436	-0.0024	0.3017	-0.0462	-0.0040	0.0186	0.0876	-0.4027	
26	0.02	-0.46	1.4424	-0.0110	0.4456	-0.0076	0.3083	-0.0431	-0.0044	0.0208	0.1032	-0.4835	
27	0.02	0.25	1.4275	-0.0205	0.4552	-0.0144	0.3189	-0.0503	-0.0040	0.0210	0.0805	-0.4183	
28	0.02	1.05	1.3942	-0.0216	0.4483	-0.0155	0.3215	-0.0431	-0.0044	0.0208	0.1032	-0.4835	
29	0.02	1.78	1.3586	-0.0226	0.4374	-0.0167	0.3220	-0.0504	-0.0045	0.0217	0.0903	-0.4307	
30	0.02	2.56	1.3279	-0.0261	0.4335	-0.0197	0.3264	-0.0540	-0.0045	0.0221	0.0642	-0.4094	
31	0.02	3.32	1.2850	-0.0263	0.4192	-0.0205	0.3262	-0.0545	-0.0048	0.0240	0.0890	-0.4411	
32	0.02	4.06	1.2387	-0.0269	0.4116	-0.0217	0.3323	-0.0576	-0.0045	0.0219	0.0790	-0.3803	
33	0.02	4.92	1.2035	-0.0268	0.3935	-0.0223	0.3270	-0.0508	-0.0048	0.0236	0.0955	-0.4640	
34	0.02	5.71	1.1589	-0.0270	0.3826	-0.0233	0.3301	-0.0512	-0.0055	0.0256	0.1074	-0.5008	
35	0.02	6.50	1.1064	-0.0276	0.3650	-0.0250	0.3299	-0.0473	-0.0056	0.0245	0.1184	-0.5188	
36	0.02	7.29	1.0646	-0.0278	0.3534	-0.0262	0.3320	-0.0515	-0.0062	0.0275	0.1204	-0.5347	
37	0.02	8.13	1.0045	-0.0279	0.3380	-0.0278	0.3365	-0.0543	-0.0058	0.0241	0.1077	-0.4439	
38	0.02	8.91	0.9653	-0.0279	0.3216	-0.0289	0.3331	-0.0548	-0.0075	0.0279	0.1368	-0.5099	
39	0.02	9.73	0.9178	-0.0281	0.3054	-0.0307	0.3328	-0.0648	-0.0064	0.0234	0.0995	-0.3612	
40	0.02	10.51	0.8663	-0.0278	0.2880	-0.0321	0.3324	-0.0687	-0.0084	0.0265	0.1230	-0.3859	
41	0.03	11.36	0.8135	-0.0271	0.2723	-0.0334	0.3347	-0.0717	-0.0098	0.0256	0.1374	-0.3572	
42	0.02	12.11	0.7600	-0.0265	0.2580	-0.0349	0.3395	-0.0749	-0.0100	0.0241	0.1335	-0.3223	
43	0.03	12.86	0.7127	-0.0260	0.2378	-0.0365	0.3336	-0.0800	-0.0100	0.0165	0.1250	-0.2068	
44	0.03	13.62	0.6639	-0.0253	0.2219	-0.0394	0.3441	-0.0874	-0.0091	0.0167	0.1041	-0.1908	
45	0.03	14.39	0.5872	-0.0241	0.2084	-0.0411	0.3548	-0.0897	-0.0084	0.0112	0.0942	-0.1250	
46	0.03	15.17	0.5436	-0.0229	0.1871	-0.0422	0.3443	-0.1071	-0.0059	0.0075	0.0551	-0.0701	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	72	1.01	1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.03	15.94	0.4844	-0.0217	0.1658	-0.0449	0.3423	-0.0806	-0.0085	0.0165	0.1061	-0.2052
48	0.02	16.75	0.4424	-0.0210	0.1504	-0.0476	0.3400	-0.1110	-0.0049	0.0066	0.0441	-0.0596
49	0.04	17.55	0.3945	-0.0201	0.1255	-0.0511	0.3180	-0.1006	-0.0091	0.0119	0.0909	-0.1181
50	0.03	18.43	0.3603	-0.0198	0.1136	-0.0549	0.3152	-0.1084	-0.0019	0.0075	0.0175	-0.0690
51	0.03	19.20	0.3068	-0.0187	0.0931	-0.0611	0.3036	-0.1019	-0.0040	0.0118	0.0397	-0.1162

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6											
6	73	1.05	1.7	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
				0.0	B2W0F12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	-19.77	0.0842	-0.3258	4.7143	-11.5004	-0.0150	1.2869	-3.8703		
2	0.02	-19.39	0.0826	-0.3056	4.7594	-11.4705	-0.0150	1.2769	-3.7002		
3	0.02	-18.59	0.1108	-0.3791	4.7431	-11.5417	-0.0130	1.2574	-3.4217		
4	0.02	-17.73	0.1165	-0.3890	4.5960	-11.5267	-0.0020	1.2627	-3.3399		
5	0.02	-16.90	0.1401	-0.4201	4.4078	-11.4283	-0.0010	1.2519	-2.9989		
6	0.02	-16.06	0.1127	-0.3437	4.2811	-11.4239	-0.0050	1.2519	-3.0504		
7	0.02	-15.31	0.1030	-0.3612	4.1119	-11.3429	0.0030	1.2533	-3.5068		
8	0.02	-14.48	0.1167	-0.3343	3.9233	-11.2029	0.0	1.2447	-2.8653		
9	0.02	-13.63	0.0939	-0.3164	3.8367	-11.0906	0.0060	1.2260	-3.3702		
10	0.02	-12.81	0.0911	-0.2885	3.6817	-10.9446	0.0090	1.2118	-3.1673		
11	0.02	-12.07	0.0667	-0.3023	3.5104	-10.8448	0.0110	1.2151	-4.5334		
12	0.02	-11.33	0.0738	-0.2343	3.3809	-10.6364	0.0060	1.1938	-3.1751		
13	0.03	-10.56	0.0714	-0.2289	3.3141	-10.4999	0.0110	1.1708	-3.2067		
14	0.02	-9.81	0.0708	-0.2731	3.2519	-10.4698	0.0110	1.1593	-3.8576		
15	0.02	-9.03	0.0658	-0.2581	3.0157	-10.2562	0.0180	1.1553	-3.9228		
16	0.02	-8.25	0.0653	-0.2744	3.0448	-10.2799	0.0200	1.1397	-4.2024		
17	0.02	-7.46	0.0664	-0.2419	2.8084	-10.1090	0.0140	1.1409	-3.6440		
18	0.02	-6.68	0.0745	-0.2793	2.7902	-10.1345	0.0220	1.1314	-3.7490		
19	0.02	-5.84	0.0859	-0.1002	2.8750	-10.2052	0.0270	1.1049	-3.4955		
20	0.02	-5.12	0.0701	-0.2961	2.7512	-10.2979	0.0280	1.1122	-4.2245		
21	0.02	-4.35	0.0705	-0.2707	2.6445	-10.4164	0.0260	1.1168	-3.8397		
22	0.02	-3.57	0.0743	-0.2850	2.6545	-10.6393	0.0120	1.1100	-3.8361		
23	0.02	-2.77	0.0394	-0.2331	2.6197	-10.5286	0.0180	1.0899	-5.9178		
24	0.02	-1.97	0.0481	-0.2363	2.4517	-10.3144	0.0150	1.0807	-4.9135		
25	0.02	-1.17	0.0667	-0.2683	2.4571	-10.2110	0.0110	1.0652	-4.0237		
26	0.02	-0.36	0.0699	-0.2728	2.2291	-9.9369	0.0110	1.0503	-3.9036		
27	0.02	0.36	0.0763	-0.2598	2.1348	-9.6879	0.0100	1.0255	-3.4052		
28	0.02	1.15	0.0620	-0.2338	2.0783	-9.5208	0.0120	1.0220	-3.7710		
29	0.02	1.88	0.0452	-0.2203	1.9515	-9.2843	0.0120	1.0082	-4.8734		
30	0.02	2.71	0.0379	-0.2110	1.8527	-9.0535	0.0100	0.9842	-5.5689		
31	0.02	3.43	0.0617	-0.2453	1.7171	-8.6991	0.0050	0.9584	-3.9770		
32	0.02	4.20	0.0383	-0.1806	1.5935	-8.5241	0.0120	0.9404	-4.7159		
33	0.02	4.99	0.0702	-0.2352	1.4457	-8.2462	0.0070	0.9082	-3.3516		
34	0.02	5.81	0.0478	-0.1939	1.4187	-8.0084	0.0090	0.8881	-4.0569		
35	0.02	6.64	0.0327	-0.1888	1.2420	-7.6691	0.0090	0.8553	-5.7731		
36	0.02	7.40	0.0726	-0.2576	1.1001	-7.4203	0.0010	0.8295	-3.5688		
37	0.02	8.22	0.0453	-0.1904	0.9307	-7.1262	0.0070	0.7943	-4.2035		
38	0.02	9.02	0.0291	-0.1947	0.7770	-6.8250	0.0040	0.7617	-6.6921		
39	0.02	9.83	0.0406	-0.1508	0.6745	-6.5256	0.0090	0.7347	-3.7153		
40	0.03	10.64	0.0540	-0.1446	0.5339	-6.2508	0.0060	0.7005	-2.6778		
41	0.02	11.47	0.0323	-0.1162	0.3508	-5.9393	0.0070	0.6672	-3.5981		
42	0.03	12.23	0.0329	-0.0760	0.2613	-5.6811	-0.0020	0.6372	-2.3119		
43	0.03	13.01	0.0415	-0.0891	0.0226	-5.2769	-0.0030	0.5944	-2.1470		
44	0.03	13.74	0.0291	-0.0427	-0.0997	-5.0258	-0.0090	0.5663	-1.4687		
45	0.03	14.54	0.0399	-0.1068	-0.2515	-4.7583	-0.0200	0.5261	-2.6782		
46	0.03	15.29	0.0385	-0.0569	-0.5495	-4.4580	-0.0160	0.4881	-1.4779		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		73	1.05	1.7		0.0	B2WOF12	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.03	16.09	0.0506	-0.0598	-0.7301	-4.1522	-0.0220	0.4504	-1.9731				
48	0.03	16.89	0.0692	-0.1549	-0.7594	-3.9992	-0.0260	0.4197	-2.2381				
49	0.03	17.67	0.0614	-0.1159	-1.0425	-3.6729	-0.0190	0.3654	-1.8886				
50	0.03	18.54	0.0175	-0.0145	-1.2920	-3.4135	-0.0140	0.3099	-0.8286				
51	0.02	19.29	0.0608	-0.2111	-1.5367	-3.1619	-0.0080	0.2622	-3.4724				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	73	1.05 1.7	0.0	82WOF12	0.0	.30	0	.30	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCPF1	CNF2	CH2	CB2	XCFF2	YCPF2
1	0.02	-19.77	1.5279	-0.0077	0.4820	-0.0051	0.3155	0.0468	-0.0038	0.0046	-0.0812	0.0982
2	0.02	-19.39	1.5219	-0.0091	0.4820	-0.0060	0.3167	0.0433	0.0011	0.0048	0.0266	0.1115
3	0.02	-18.59	1.5316	-0.0102	0.4760	-0.0067	0.3108	0.0532	0.0003	0.0019	0.0056	0.0362
4	0.02	-17.73	1.5125	-0.0126	0.4792	-0.0083	0.3168	0.0369	0.0026	-0.0028	0.0718	-0.0760
5	0.02	-16.90	1.4924	-0.0143	0.4765	-0.0096	0.3193	0.0404	0.0051	-0.0027	0.1275	-0.0678
6	0.02	-16.06	1.4753	-0.0136	0.4738	-0.0092	0.3212	0.0353	0.0033	-0.0022	0.0935	-0.0634
7	0.02	-15.31	1.4617	-0.0130	0.4702	-0.0089	0.3217	0.0246	0.0072	-0.0090	0.2947	-0.3660
8	0.02	-14.48	1.4432	-0.0122	0.4637	-0.0085	0.3213	0.0252	0.0043	-0.0044	0.1706	-0.1747
9	0.02	-13.63	1.4241	-0.0110	0.4572	-0.0077	0.3211	0.0185	0.0033	-0.0085	0.1810	-0.4614
10	0.02	-12.81	1.4065	-0.0098	0.4534	-0.0070	0.3223	0.0158	0.0032	-0.0078	0.2025	-0.4959
11	0.02	-12.07	1.3921	-0.0091	0.4506	-0.0065	0.3237	0.0111	0.0048	-0.0109	0.4324	-0.9821
12	0.02	-11.33	1.3613	-0.0086	0.4415	-0.0063	0.3243	0.0125	0.0025	-0.0098	0.2000	-0.7868
13	0.03	-10.56	1.3509	-0.0084	0.4370	-0.0062	0.3235	0.0147	0.0018	-0.0079	0.1224	-0.5375
14	0.02	-9.81	1.3331	-0.0084	0.4329	-0.0063	0.3247	0.0148	0.0013	-0.0080	0.0912	-0.5384
15	0.02	-9.03	1.3079	-0.0096	0.4278	-0.0073	0.3271	0.0075	0.0013	-0.0102	0.1800	-1.3601
16	0.02	-8.25	1.3122	-0.0094	0.4294	-0.0072	0.3273	0.0147	0.0008	-0.0071	0.0578	-0.4831
17	0.02	-7.46	1.2956	-0.0098	0.4255	-0.0076	0.3284	0.0158	0.0008	-0.0063	0.0506	-0.4010
18	0.02	-6.68	1.3002	-0.0102	0.4290	-0.0079	0.3100	0.0150	0.0008	-0.0081	0.0533	-0.5401
19	0.02	-5.84	1.3179	-0.0078	0.4358	-0.0060	0.3307	0.0157	0.0001	-0.0053	0.0064	-0.3356
20	0.02	-5.12	1.3309	-0.0082	0.4482	-0.0062	0.3367	0.0155	-0.0001	-0.0041	-0.0065	-0.2668
21	0.02	-4.35	1.3422	-0.0082	0.4586	-0.0061	0.3417	0.0200	-0.0012	-0.0057	-0.0600	-0.2868
22	0.02	-3.57	1.3455	-0.0156	0.4675	-0.0116	0.3475	0.0124	0.0005	-0.0080	0.0403	-0.6426
23	0.02	-2.77	1.3202	-0.0220	0.4675	-0.0167	0.3541	0.0069	0.0006	-0.0072	0.0869	-1.0436
24	0.02	-1.97	1.3034	-0.0263	0.4664	-0.0202	0.3578	0.0046	0.0007	-0.0086	0.1521	-1.8624
25	0.02	-1.17	1.2689	-0.0332	0.4718	-0.0262	0.3718	0.0047	0.0005	-0.0087	0.1064	-1.8583
26	0.02	-0.36	1.2293	-0.0342	0.4630	-0.0278	0.3766	0.0081	0.0006	-0.0067	0.0741	-0.8273
27	0.02	0.36	1.1903	-0.0345	0.4545	-0.0290	0.3819	0.0082	0.0005	-0.0068	0.0610	-0.8253
28	0.02	1.15	1.1594	-0.0358	0.4484	-0.0309	0.3868	0.0108	0.0003	-0.0068	0.0324	-0.6297
29	0.02	1.88	1.1320	-0.0371	0.4428	-0.0328	0.3912	0.0104	0.0007	-0.0105	0.0673	-1.0129
30	0.02	2.71	1.0824	-0.0374	0.4275	-0.0345	0.3953	0.0059	0.0002	-0.0079	0.0339	-1.3448
31	0.02	3.43	1.0323	-0.0371	0.4152	-0.0359	0.4022	0.0106	0.0003	-0.0059	0.0330	-0.5536
32	0.02	4.20	0.9891	-0.0368	0.4041	-0.0372	0.4085	0.0073	0.0006	-0.0088	0.0822	-1.2010
33	0.02	4.99	0.9408	-0.0365	0.3900	-0.0388	0.4145	0.0144	0.0	-0.0049	0.0	-0.3404
34	0.02	5.81	0.9018	-0.0358	0.3782	-0.0397	0.4194	0.0070	0.0003	-0.0074	0.0500	-1.0525
35	0.02	6.64	0.8451	-0.0355	0.3637	-0.0420	0.4303	0.0100	0.0	-0.0083	0.0	-0.8268
36	0.02	7.40	0.7926	-0.0356	0.3490	-0.0449	0.4403	0.0205	-0.0005	-0.0024	-0.0268	-0.1156
37	0.02	8.22	0.7497	-0.0353	0.3332	-0.0461	0.4444	0.0310	0.0000	-0.0071	0.0045	-0.6486
38	0.02	9.02	0.6985	-0.0351	0.3190	-0.0503	0.4567	0.0127	-0.0000	-0.0034	-0.0039	-0.2652
39	0.02	9.83	0.6530	-0.0344	0.3010	-0.0527	0.4609	0.0069	0.0001	-0.0065	0.0145	-0.9421
40	0.03	10.64	0.6001	-0.0339	0.2860	-0.0566	0.4767	0.0158	0.0001	-0.0051	0.0095	-0.3250
41	0.02	11.47	0.5445	-0.0327	0.2694	-0.0601	0.4948	0.0117	0.0003	-0.0048	0.0256	-0.4104
42	0.03	12.23	0.5036	-0.0313	0.2546	-0.0622	0.5055	0.0109	0.0003	-0.0069	0.0275	-0.6301
43	0.03	13.01	0.4520	-0.0300	0.2326	-0.0665	0.5146	0.0132	0.0	-0.0051	0.0	-0.3865
44	0.03	13.74	0.4049	-0.0297	0.2151	-0.0733	0.5312	0.0206	0.0	-0.0023	0.0	-0.1134
45	0.03	14.54	0.3502	-0.0284	0.1949	-0.0812	0.5565	0.0218	-0.0005	-0.0014	-0.0252	-0.0659
46	0.03	15.29	0.3041	-0.0274	0.1768	-0.0902	0.5814	0.0143	-0.0001	-0.0038	-0.0105	-0.2682

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		73		1.05 1.7		0.0	B2WOF12	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.03	16.09	0.2568	-0.0262	0.1573	-0.1022	0.6128	0.0231	-0.0010	-0.0009	-0.0433	-0.0391	
48	0.03	16.89	0.2111	-0.0250	0.1389	-0.1186	0.6582	0.0243	-0.0012	-0.0003	-0.0514	-0.0125	
49	0.03	17.67	0.1644	-0.0237	0.1196	-0.1441	0.7274	0.0214	-0.0010	0.0007	-0.0467	0.0341	
50	0.03	18.54	0.1280	-0.0225	0.1004	-0.1758	0.7848	0.0281	-0.0011	0.0010	-0.0409	0.0343	
51	0.02	19.29	0.0864	-0.0217	0.0817	-0.2517	0.9455	0.0269	-0.0009	0.0004	-0.0353	0.0135	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	73	1.05	1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.77	1.6497	0.0057	0.4687	0.0034	0.2757	-0.0003	-0.0048	0.0078	0.0724	-0.1178
2	0.02	-19.39	1.7178	0.0050	0.4717	0.0029	0.2746	-0.0560	-0.0043	0.0072	0.0768	-0.1293
3	0.02	-18.59	1.7097	0.0061	0.4635	0.0036	0.2711	-0.0605	-0.0044	0.0114	0.0727	-0.1891
4	0.02	-17.73	1.6482	0.0032	0.4624	0.0019	0.2739	-0.0571	-0.0043	0.0117	0.0753	-0.2044
5	0.02	-16.90	1.6790	0.0015	0.4597	0.0009	0.2738	-0.0540	-0.0043	0.0131	0.0796	-0.2427
6	0.02	-16.06	1.6691	-0.0005	0.4592	-0.0003	0.2751	-0.0530	-0.0044	0.0093	0.0830	-0.1762
7	0.02	-15.31	1.6507	0.0008	0.4584	0.0005	0.2777	-0.0398	-0.0042	0.0114	0.1068	-0.2874
8	0.02	-14.48	1.6359	0.0004	0.4496	0.0002	0.2748	-0.0537	-0.0047	0.0125	0.0884	-0.2329
9	0.02	-13.63	1.6169	0.0011	0.4439	0.0007	0.2745	-0.0510	-0.0044	0.0146	0.0863	-0.2864
10	0.02	-12.81	1.5978	0.0016	0.4405	0.0010	0.2757	-0.0538	-0.0044	0.0125	0.0818	-0.2318
11	0.02	-12.07	1.5792	0.0019	0.4357	0.0012	0.2759	-0.0398	-0.0043	0.0114	0.1093	-0.2874
12	0.02	-11.33	1.5608	0.0032	0.4270	0.0020	0.2736	-0.0539	-0.0043	0.0125	0.0798	-0.2326
13	0.03	-10.56	1.5359	0.0036	0.4165	0.0023	0.2714	-0.0539	-0.0047	0.0125	0.0872	-0.2326
14	0.02	-9.81	1.5126	0.0041	0.4128	0.0027	0.2729	-0.0399	-0.0046	0.0115	0.1165	-0.2883
15	0.02	-9.03	1.5016	0.0042	0.4084	0.0028	0.2720	-0.0511	-0.0044	0.0147	0.0861	-0.2871
16	0.02	-8.25	1.4773	0.0024	0.4068	0.0017	0.2754	-0.0376	-0.0039	0.0156	0.1050	-0.4141
17	0.02	-7.46	1.4672	0.0008	0.4061	0.0006	0.2768	-0.0407	-0.0040	0.0140	0.0983	-0.3449
18	0.02	-6.68	1.4618	0.0005	0.4051	0.0004	0.2771	-0.0407	-0.0039	0.0140	0.0958	-0.3449
19	0.02	-5.84	1.4652	0.0005	0.4070	0.0003	0.2777	-0.0413	-0.0039	0.0165	0.0956	-0.4004
20	0.02	-5.12	1.4929	0.0051	0.4176	0.0034	0.2797	-0.0414	-0.0040	0.0166	0.0978	-0.4011
21	0.02	-4.35	1.4461	0.0043	0.4312	0.0029	0.2882	-0.0484	-0.0040	0.0168	0.0837	-0.3465
22	0.02	-3.57	1.5285	0.0004	0.4530	0.0003	0.2764	-0.0453	-0.0040	0.0183	0.0894	-0.4041
23	0.02	-2.77	1.5097	-0.0071	0.4523	-0.0047	0.2996	-0.0528	-0.0043	0.0210	0.0824	-0.3978
24	0.02	-1.97	1.4815	-0.0115	0.4522	-0.0078	0.3052	-0.0558	-0.0043	0.0183	0.0779	-0.3281
25	0.02	-1.17	1.4681	-0.0205	0.4621	-0.0140	0.3148	-0.0422	-0.0049	0.0204	0.1173	-0.4843
26	0.02	-0.30	1.4410	-0.0209	0.4531	-0.0145	0.3144	-0.0422	-0.0048	0.0204	0.1149	-0.4843
27	0.02	0.36	1.3965	-0.0221	0.4448	-0.0158	0.3185	-0.0534	-0.0049	0.0236	0.0927	-0.4421
28	0.02	1.15	1.3630	-0.0229	0.4370	-0.0168	0.3206	-0.0535	-0.0049	0.0236	0.0916	-0.4406
29	0.02	1.88	1.3417	-0.0266	0.4322	-0.0199	0.3221	-0.0602	-0.0047	0.0219	0.0789	-0.3645
30	0.02	2.71	1.2897	-0.0268	0.4225	-0.0208	0.3276	-0.0604	-0.0047	0.0226	0.0786	-0.3737
31	0.02	3.43	1.2476	-0.0270	0.4102	-0.0216	0.3288	-0.0573	-0.0048	0.0247	0.0838	-0.4312
32	0.02	4.20	1.2068	-0.0268	0.3941	-0.0222	0.3266	-0.0603	-0.0050	0.0226	0.0837	-0.3749
33	0.02	4.99	1.1575	-0.0274	0.3839	-0.0237	0.3317	-0.0423	-0.0050	0.0205	0.1182	-0.4848
34	0.02	5.81	1.1205	-0.0275	0.3724	-0.0246	0.3323	-0.0500	-0.0054	0.0233	0.1080	-0.4668
35	0.02	6.64	1.0620	-0.0274	0.3558	-0.0258	0.3350	-0.0498	-0.0058	0.0233	0.1174	-0.4680
36	0.02	7.40	1.0244	-0.0276	0.3423	-0.0269	0.3342	-0.0285	-0.0064	0.0227	0.2245	-0.7466
37	0.02	8.22	0.9722	-0.0276	0.3287	-0.0284	0.3380	-0.0372	-0.0064	0.0233	0.1632	-0.5954
38	0.02	9.02	0.9201	-0.0275	0.3142	-0.0299	0.3415	-0.0283	-0.0073	0.0228	0.2597	-0.8046
39	0.02	9.83	0.8626	-0.0278	0.2948	-0.0323	0.3416	-0.0387	-0.0070	0.0220	0.1621	-0.5686
40	0.03	10.64	0.8158	-0.0264	0.2786	-0.0324	0.3415	-0.0378	-0.0073	0.0202	0.2460	-0.5345
41	0.02	11.47	0.7595	-0.0259	0.2603	-0.0342	0.3427	-0.0481	-0.0073	0.0170	0.1933	-0.3944
42	0.03	12.23	0.7013	-0.0237	0.2448	-0.0339	0.3490	-0.0397	-0.0077	0.0117	0.1939	-0.2940
43	0.03	13.01	0.6474	-0.0224	0.2269	-0.0347	0.3505	-0.0401	-0.0061	0.0116	0.1521	-0.2902
44	0.03	13.74	0.5947	-0.0217	0.2105	-0.0366	0.3539	-0.0680	-0.0057	0.0105	0.0845	-0.1550
45	0.03	14.54	0.5512	-0.0215	0.1960	-0.0391	0.3555	-0.0709	-0.0030	0.0058	0.0423	-0.0815
46	0.03	15.29	0.5055	-0.0208	0.1753	-0.0412	0.3469	-0.0739	-0.0018	0.0024	0.0250	-0.0321

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		73	1.05	1.7		0.0	B2W0F12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	LNFB	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.03	16.09	0.4502	-0.0200	0.1593	-0.0445	0.3539	-0.0670	-0.0014	0.0028	0.0216	-0.0414	
48	0.03	16.89	0.4113	-0.0193	0.1386	-0.0469	0.3369	-0.0678	-0.0004	0.0047	0.0066	-0.0694	
49	0.03	17.67	0.3522	-0.0185	0.1188	-0.0525	0.3372	-0.0675	-0.0002	0.0028	0.0030	-0.0416	
50	0.03	18.54	0.2948	-0.0166	0.0965	-0.0564	0.3288	-0.0712	-0.0031	0.0058	0.0442	-0.0811	
51	0.02	19.29	0.2578	-0.0161	0.0783	-0.0626	0.3037	-0.0656	-0.0018	0.0101	0.0282	-0.1546	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION	
6	74	1.10	1.7	0.0	B2W0F12	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	-19.89	0.0594	-0.2601	5.0657	-11.4435	-0.0110	1.2645	-4.3798		
2	0.02	-19.46	0.0756	-0.2768	4.9643	-11.2594	-0.0130	1.2989	-3.6619		
3	0.02	-18.65	0.1317	-0.3493	4.9700	-11.3485	-0.0210	1.2634	-2.6528		
4	0.02	-17.80	0.1105	-0.3507	4.5295	-11.1027	-0.0070	1.2860	-3.1738		
5	0.02	-16.97	0.0863	-0.2538	4.4082	-11.1479	-0.0070	1.3004	-2.9411		
6	0.02	-16.15	0.0903	-0.2774	4.3221	-11.0783	-0.0140	1.2341	-3.0722		
7	0.02	-15.38	0.0701	-0.2701	4.0615	-10.9584	-0.0050	1.2522	-3.6536		
8	0.02	-14.55	0.0634	-0.2087	3.9283	-10.8979	0.0040	1.2499	-3.2927		
9	0.03	-13.72	0.0929	-0.2050	3.8268	-10.7348	0.0020	1.2251	-2.2073		
10	0.03	-12.88	0.1119	-0.2436	3.7523	-10.6825	0.0090	1.1944	-2.1775		
11	0.02	-12.14	0.0639	-0.2134	3.4583	-10.4300	0.0100	1.2143	-3.3405		
12	0.03	-11.35	0.0448	-0.1137	3.4430	-10.4315	0.0070	1.1893	-2.5384		
13	0.03	-10.64	0.0384	-0.1517	3.2886	-10.3342	0.0150	1.1982	-3.9521		
14	0.03	-9.89	0.0701	-0.1691	3.2918	-10.3187	0.0180	1.1805	-2.4128		
15	0.03	-9.09	0.0877	-0.2218	3.1060	-10.1446	0.0240	1.1639	-2.5288		
16	0.02	-8.34	0.0732	-0.2294	3.0526	-10.1781	0.0310	1.1753	-3.1350		
17	0.02	-7.52	0.0748	-0.2327	2.9615	-10.0933	0.0310	1.1541	-3.1112		
18	0.02	-6.75	0.0428	-0.1709	2.9155	-10.1719	0.0340	1.1561	-3.9935		
19	0.02	-5.95	0.0599	-0.1728	2.7673	-9.9775	0.0300	1.1308	-2.8858		
20	0.02	-5.19	0.0392	-0.1879	2.6827	-10.1290	0.0260	1.1407	-4.7929		
21	0.02	-4.42	0.0795	-0.2333	2.7740	-10.3638	0.0310	1.1257	-2.9346		
22	0.02	-3.65	0.0350	-0.1600	2.6291	-10.3128	0.0190	1.1174	-4.5714		
23	0.02	-2.79	0.0513	-0.1618	2.6633	-10.3037	0.0210	1.1047	-3.1544		
24	0.02	-2.05	0.0418	-0.1435	2.4273	-10.0473	0.0140	1.1061	-3.4335		
25	0.02	-1.20	0.0354	-0.1315	2.4667	-9.9545	0.0140	1.0791	-3.7164		
26	0.02	-0.43	0.0133	-0.0856	2.2330	-9.6094	0.0140	1.0608	-6.4376		
27	0.02	0.29	0.0397	-0.1686	2.0860	-9.3236	0.0150	1.0398	-4.2463		
28	0.02	1.06	0.0001	-0.0441	1.9812	-9.2749	0.0230	1.0358	-4.1399		
29	0.02	1.81	0.0598	-0.1967	1.9241	-8.9850	0.0098	1.0140	-3.2896		
30	0.02	2.62	0.0290	-0.1296	1.7364	-8.7598	0.0120	0.9925	-4.4690		
31	0.02	3.37	0.0542	-0.1499	1.7879	-8.5062	0.0100	0.9863	-2.7653		
32	0.02	4.13	0.0288	-0.1093	1.5553	-8.1396	0.0110	0.9479	-3.7958		
33	0.02	4.93	0.0158	-0.0851	1.4546	-7.9247	0.0120	0.9208	-5.3873		
34	0.02	5.74	0.0362	-0.1147	1.2459	-7.6775	0.0130	0.8934	-3.1680		
35	0.02	6.55	0.0125	-0.0535	1.1800	-7.3033	0.0140	0.8726	-4.2800		
36	0.02	7.36	-0.0172	0.0101	0.9841	-7.0310	0.0150	0.8467	-0.5860		
37	0.03	8.14	0.0130	-0.0422	0.8859	-6.8895	0.0160	0.8064	-3.2462		
38	0.03	8.99	0.0126	-0.0456	0.8039	-6.6337	0.0110	0.7842	-3.6222		
39	0.03	9.74	-0.0124	0.0274	0.6419	-6.3160	0.0100	0.7511	-2.2065		
40	0.03	10.54	0.0001	0.0019	0.4983	-6.0100	0.0070	0.7139	18.6000		
41	0.03	11.36	0.0073	0.0118	0.2437	-5.7024	0.0070	0.6757	1.6137		
42	0.03	12.13	0.0116	-0.0442	0.2535	-5.5782	0.0010	0.6686	-3.8138		
43	0.03	12.91	-0.0020	0.0308	-0.0528	-5.1624	-0.0090	0.6133	-15.4000		
44	0.04	13.65	0.0354	0.0214	-0.1286	-4.9023	-0.0090	0.5832	0.6056		
45	0.03	14.43	0.0027	0.0962	-0.4013	-4.6534	-0.0070	0.5378	35.6370		
46	0.04	15.20	0.0418	0.0675	-0.4590	-4.4247	-0.0120	0.5172	1.6144		

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.03	15.98	-0.0210	0.0694	-0.6679	-4.2722	-0.0060	0.4812	-3.3048
48	0.03	16.77	-0.0223	0.0732	-0.8793	-3.9183	-0.0100	0.4482	-3.2834
49	0.04	17.60	0.0232	0.0545	-1.0663	-3.7096	-0.0100	0.4039	2.3500
50	0.04	18.44	-0.0765	0.3361	-1.3185	-3.5264	0.0070	0.3696	-4.3935
51	0.02	19.24	0.0376	-0.1166	-1.4965	-3.2586	-0.0110	0.3084	-3.1021
52	0.03	19.77	-0.0064	0.0660	-1.0192	-3.1034	-0.0060	0.2715	-10.3063

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	74	1.10	1.7	0.0	B2NOF12	0.0	30	0	30	0	FIXED

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	74	1.10	1.7	0.0	82WOF12	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.89	1.5576	-0.0137	0.4909	-0.0088	0.3152	0.0259	-0.0038	0.0064	-0.1467	0.2483
2	0.02	-19.46	1.5544	-0.0126	0.4899	-0.0081	0.3151	0.0337	-0.0064	0.0134	-0.1899	0.3985
3	0.02	-18.65	1.5332	-0.0119	0.4823	-0.0078	0.3146	0.0377	-0.0026	0.0098	-0.0703	0.2589
4	0.02	-17.80	1.5086	-0.0101	0.4752	-0.0067	0.3150	0.0296	0.0003	0.0038	0.0118	0.1271
5	0.02	-16.97	1.5143	-0.0088	0.4758	-0.0058	0.3142	0.0284	0.0005	0.0037	0.0176	0.1290
6	0.02	-16.15	1.4646	-0.0091	0.4613	-0.0062	0.3150	0.0367	0.0029	0.0043	0.0790	0.1180
7	0.02	-15.38	1.4722	-0.0081	0.4618	-0.0055	0.3137	0.0129	0.0021	-0.0022	0.1628	-0.1707
8	0.02	-14.55	1.4428	-0.0086	0.4554	-0.0060	0.3156	0.0077	0.0049	-0.0034	0.6362	-0.4460
9	0.03	-13.72	1.4328	-0.0080	0.4543	-0.0056	0.3171	0.0117	0.0003	-0.0013	0.0256	-0.1112
10	0.03	-12.88	1.3942	-0.0083	0.4449	-0.0060	0.3191	0.0084	-0.0002	-0.0032	-0.0298	-0.3811
11	0.02	-12.14	1.3885	-0.0067	0.4425	-0.0048	0.3187	0.0027	0.0045	-0.0086	1.6849	-3.1853
12	0.03	-11.35	1.3677	-0.0064	0.4359	-0.0047	0.3187	0.0026	0.0015	-0.0063	0.5960	-2.4360
13	0.03	-10.64	1.3629	-0.0042	0.4342	-0.0031	0.3186	-0.0116	0.0030	-0.0113	-0.2586	0.9711
14	0.03	-9.89	1.3615	-0.0044	0.4336	-0.0033	0.3185	0.0003	0.0010	-0.0071	3.3327	-23.6668
15	0.03	-9.09	1.3447	-0.0043	0.4293	-0.0032	0.3192	0.0022	-0.0001	-0.0037	-0.0682	-1.6668
16	0.02	-8.34	1.3501	-0.0071	0.4357	-0.0053	0.3227	-0.0054	0.0004	-0.0092	-0.0741	1.7036
17	0.02	-7.52	1.3457	-0.0065	0.4337	-0.0048	0.3223	0.0014	0.0000	-0.0056	0.0357	-4.0239
18	0.02	-6.75	1.3516	-0.0085	0.4418	-0.0063	0.3269	-0.0010	0.0006	-0.0067	-0.6499	6.7332
19	0.02	-5.95	1.3153	-0.0087	0.4335	-0.0067	0.3296	0.0015	0.0003	-0.0064	0.2000	-4.2668
20	0.02	-5.19	1.3380	-0.0095	0.4475	-0.0071	0.3345	-0.0008	-0.0009	-0.0064	1.1248	7.9582
21	0.02	-4.42	1.3505	-0.0125	0.4566	-0.0093	0.3381	-0.0018	-0.0006	-0.0078	0.3333	4.3332
22	0.02	-3.65	1.3222	-0.0224	0.4603	-0.0169	0.3481	-0.0104	0.0008	-0.0096	-0.0769	0.9198
23	0.02	-2.79	1.3111	-0.0313	0.4685	-0.0239	0.3573	-0.0094	0.0009	-0.0087	-0.1010	0.9290
24	0.02	-2.05	1.2825	-0.0345	0.4647	-0.0269	0.3624	-0.0031	0.0006	-0.0085	-0.2096	2.7526
25	0.02	-1.20	1.2472	-0.0349	0.4545	-0.0282	0.3674	-0.0093	0.0010	-0.0089	-0.1075	0.9569
26	0.02	-0.43	1.2064	-0.0340	0.4453	-0.0282	0.3691	-0.0126	0.0009	-0.0108	-0.0714	0.8570
27	0.02	0.29	1.1684	-0.0348	0.4373	-0.0298	0.3743	-0.0091	0.0007	-0.0096	-0.0769	1.0585
28	0.02	1.06	1.1405	-0.0364	0.4345	-0.0319	0.3810	-0.0169	0.0009	-0.0139	-0.0532	0.8243
29	0.02	1.81	1.0996	-0.0370	0.4231	-0.0336	0.3848	0.0021	0.0006	-0.0091	0.3095	-4.3335
30	0.02	2.62	1.0557	-0.0363	0.4116	-0.0344	0.3898	-0.0052	0.0005	-0.0101	-0.1058	1.9486
31	0.02	3.37	1.0171	-0.0368	0.4014	-0.0362	0.3947	-0.0010	0.0006	-0.0067	-0.6499	6.7332
32	0.02	4.13	0.9599	-0.0354	0.3839	-0.0369	0.4000	-0.0049	0.0007	-0.0114	-0.1530	2.3332
33	0.02	4.93	0.9147	-0.0348	0.3717	-0.0381	0.4063	-0.0063	0.0004	-0.0107	-0.0635	1.6983
34	0.02	5.74	0.8708	-0.0341	0.3615	-0.0391	0.4151	-0.0083	0.0003	-0.0128	-0.0422	1.5380
35	0.02	6.55	0.8206	-0.0338	0.3475	-0.0412	0.4235	-0.0096	0.0004	-0.0124	-0.0469	1.2915
36	0.02	7.36	0.7774	-0.0338	0.3325	-0.0435	0.4277	-0.0111	0.0007	-0.0119	-0.0676	1.0720
37	0.03	8.14	0.7292	-0.0332	0.3163	-0.0455	0.4337	-0.0028	0.0004	-0.0095	-0.1428	3.4046
38	0.03	8.99	0.6792	-0.0321	0.3004	-0.0473	0.4423	-0.0054	0.0005	-0.0092	-0.0926	1.7036
39	0.03	9.74	0.6313	-0.0312	0.2857	-0.0495	0.4526	-0.0013	-0.0002	-0.0098	0.1923	7.5640
40	0.03	10.54	0.5779	-0.0302	0.2681	-0.0522	0.4640	-0.0014	-0.0005	-0.0092	0.3928	6.5475
41	0.03	11.36	0.5348	-0.0293	0.2529	-0.0548	0.4729	-0.0004	-0.0002	-0.0085	0.4999	21.3332
42	0.03	12.13	0.5069	-0.0294	0.2406	-0.0581	0.4746	0.0092	-0.0005	-0.0013	-0.0543	-0.1450
43	0.03	12.91	0.4526	-0.0275	0.2178	-0.0607	0.4812	0.0104	-0.0001	-0.0065	-0.0096	-0.6283
44	0.04	13.65	0.4024	-0.0276	0.2002	-0.0686	0.4974	0.0076	-0.0004	-0.0050	-0.0592	-0.6536
45	0.03	14.43	0.3535	-0.0261	0.1824	-0.0738	0.5159	0.0025	-0.0012	-0.0095	-0.4799	-3.7868
46	0.04	15.20	0.3095	-0.0260	0.1680	-0.0841	0.5428	0.0139	-0.0007	-0.0049	-0.0539	-0.3502

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		74	1.10	1.7		0.0	02W0F12	0.6	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CO1	XCPF1	YCPF1	CNF2	CH2	CO2	XCPF2	YCPF2	
47	0.03	15.98	0.2572	-0.0238	0.1472	-0.0927	0.5723	-0.0078	-0.0007	-0.0139	0.0961	1.7819	
48	0.03	16.77	0.2123	-0.0230	0.1291	-0.1083	0.6083	0.0044	-0.0004	-0.0075	-0.0909	-1.7122	
49	0.04	17.60	0.1697	-0.0227	0.1127	-0.1340	0.6644	0.0160	-0.0010	-0.0004	-0.0555	-0.0223	
50	0.04	18.44	0.1397	-0.0213	0.0981	-0.1524	0.7026	0.0024	0.0003	-0.0101	0.1250	-4.2084	
51	0.02	19.24	0.0805	-0.0207	0.0739	-0.2571	0.9183	0.0105	-0.0012	-0.0059	-0.1190	-0.5620	
52	0.03	19.77	0.0677	-0.0209	0.0666	-0.3094	0.9846	0.0115	-0.0005	-0.0055	-0.0478	-0.4755	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACT	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	74 1.10 1.7	0.0	B2W0F12	0.0	30	0	30	0	FIXED			
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.89	1.6986	-0.0030	0.4811	-0.0018	0.2832	-0.0467	-0.0040	0.0031	0.0856	-0.0672
2	0.02	-19.46	1.6869	-0.0028	0.4788	-0.0017	0.2838	-0.0664	-0.0047	0.0025	0.0715	-0.0373
3	0.02	-18.65	1.6770	-0.0015	0.4736	-0.0009	0.2824	-0.0466	-0.0042	0.0032	0.0912	-0.0681
4	0.02	-17.80	1.6939	0.0001	0.4694	0.0001	0.2838	-0.0277	-0.0041	0.0075	0.1498	-0.2647
5	0.02	-16.97	1.6551	0.0001	0.4668	0.0001	0.2820	-0.0370	-0.0045	0.0050	0.1230	-0.1344
6	0.02	-16.15	1.6157	0.0	0.4581	0.0	0.2828	-0.0498	-0.0051	0.0035	0.1024	-0.0704
7	0.02	-15.38	1.6152	0.0011	0.4549	0.0007	0.2817	-0.0472	-0.0041	0.0056	0.0879	-0.1181
8	0.02	-14.55	1.5923	-0.0000	0.4483	-0.0000	0.2815	-0.0505	-0.0048	0.0060	0.0950	-0.1183
9	0.03	-13.72	1.5707	0.0021	0.4414	0.0014	0.2810	-0.0343	-0.0041	0.0071	0.1210	-0.2061
10	0.03	-12.88	1.5391	0.0014	0.4333	0.0009	0.2815	-0.0351	-0.0041	0.0101	0.1182	-0.2879
11	0.02	-12.14	1.5306	0.0014	0.4317	0.0009	0.2810	-0.0404	-0.0045	0.0054	0.1126	-0.1346
12	0.03	-11.35	1.5110	0.0042	0.4204	0.0028	0.2782	-0.0479	-0.0041	0.0080	0.0866	-0.1678
13	0.03	-10.64	1.5218	0.0046	0.4255	0.0031	0.2796	-0.0351	-0.0041	0.0101	0.1182	-0.2879
14	0.03	-9.89	1.4938	0.0059	0.4182	0.0040	0.2799	-0.0409	-0.0041	0.0072	0.1014	-0.1753
15	0.03	-9.09	1.4640	0.0035	0.4165	0.0024	0.2778	-0.0357	-0.0036	0.0125	0.1008	-0.3503
16	0.02	-8.34	1.4600	0.0039	0.4128	0.0027	0.2827	-0.0350	-0.0038	0.0100	0.1100	-0.2868
17	0.02	-7.52	1.4455	-0.0017	0.4107	-0.0012	0.2841	-0.0367	-0.0036	0.0111	0.0930	-0.2869
18	0.02	-6.75	1.4315	-0.0020	0.4148	-0.0014	0.2886	-0.0356	-0.0038	0.0125	0.1067	-0.3522
19	0.02	-5.95	1.4238	-0.0024	0.4089	-0.0017	0.2872	-0.0494	-0.0038	0.0141	0.0779	-0.2862
20	0.02	-5.19	1.4570	0.0004	0.4215	0.0003	0.2893	-0.0450	-0.0038	0.0101	0.0855	-0.2246
21	0.02	-4.42	1.4581	0.0009	0.4331	0.0006	0.2970	-0.0443	-0.0041	0.0141	0.0842	-0.2854
22	0.02	-3.65	1.4754	-0.0090	0.4455	-0.0061	0.3050	-0.0495	-0.0041	0.0147	0.0838	-0.2971
23	0.02	-2.79	1.4579	-0.0141	0.4496	-0.0097	0.3084	-0.0498	-0.0045	0.0165	0.0913	-0.3314
24	0.02	-2.05	1.4449	-0.0219	0.4590	-0.0152	0.3176	-0.0396	-0.0045	0.0159	0.1149	-0.4016
25	0.02	-1.20	1.4037	-0.0227	0.4492	-0.0162	0.3200	-0.0500	-0.0045	0.0171	0.0910	-0.3428
26	0.02	-0.43	1.3592	-0.0235	0.4412	-0.0173	0.3246	-0.0527	-0.0042	0.0145	0.0806	-0.2759
27	0.02	0.29	1.3348	-0.0242	0.4317	-0.0182	0.3234	-0.0468	-0.0045	0.0180	0.0972	-0.3847
28	0.02	1.06	1.2931	-0.0262	0.4243	-0.0203	0.3281	-0.0692	-0.0041	0.0140	0.0600	-0.2029
29	0.02	1.81	1.2850	-0.0276	0.4203	-0.0215	0.3271	-0.0473	-0.0046	0.0203	0.0983	-0.4300
30	0.02	2.62	1.2435	-0.0277	0.4072	-0.0223	0.3275	-0.0571	-0.0042	0.0192	0.0797	-0.3358
31	0.02	3.37	1.2069	-0.0278	0.3973	-0.0230	0.3292	-0.0542	-0.0046	0.0211	0.0858	-0.3900
32	0.02	4.13	1.1562	-0.0272	0.3794	-0.0236	0.3281	-0.0467	-0.0047	0.0179	0.1017	-0.3841
33	0.02	4.93	1.1089	-0.0270	0.3658	-0.0243	0.3299	-0.0533	-0.0047	0.0175	0.0882	-0.3291
34	0.02	5.74	1.0633	-0.0272	0.3550	-0.0258	0.3339	-0.0527	-0.0045	0.0150	0.0854	-0.2854
35	0.02	6.55	1.0144	-0.0271	0.3423	-0.0268	0.3382	-0.0397	-0.0051	0.0172	0.1284	-0.4325
36	0.02	7.36	0.9665	-0.0276	0.3256	-0.0285	0.3368	-0.0492	-0.0047	0.0147	0.0955	-0.2989
37	0.03	8.14	0.9239	-0.0269	0.3095	-0.0291	0.3349	-0.0369	-0.0064	0.0210	0.1748	-0.5642
38	0.03	8.99	0.8674	-0.0267	0.2956	-0.0308	0.3408	-0.0466	-0.0066	0.0198	0.1416	-0.4243
39	0.03	9.74	0.8194	-0.0255	0.2783	-0.0311	0.3397	-0.0494	-0.0064	0.0171	0.1295	-0.3469
40	0.03	10.54	0.7676	-0.0245	0.2621	-0.0320	0.3414	-0.0386	-0.0062	0.0159	0.2137	-0.4129
41	0.03	11.36	0.7029	-0.0233	0.2467	-0.0331	0.3510	-0.0513	-0.0066	0.0126	0.1291	-0.2454
42	0.03	12.13	0.6714	-0.0224	0.2342	-0.0334	0.3489	-0.0550	-0.0065	0.0131	0.1191	-0.2377
43	0.03	12.91	0.6316	-0.0218	0.2176	-0.0345	0.3445	-0.0641	-0.0063	0.0099	0.0990	-0.1551
44	0.04	13.65	0.5766	-0.0220	0.2011	-0.0381	0.3488	-0.0704	-0.0057	0.0082	0.0810	-0.1171
45	0.03	14.43	0.5323	-0.0213	0.1818	-0.0400	0.3415	-0.0672	-0.0045	0.0073	0.0670	-0.1087
46	0.04	15.20	0.4903	-0.0206	0.1664	-0.0420	0.3393	-0.0773	-0.0054	0.0085	0.0705	-0.1105

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	74	1.10	1.7	0.0	BZMOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.03	15.98	0.4408	-0.0210	0.1517	-0.0477	0.3441	-0.0611	-0.0023	0.0071	0.0385	-0.1169
48	0.03	16.77	0.3986	-0.0204	0.1301	-0.0512	0.3264	-0.0769	-0.0024	0.0042	0.0312	-0.0543
49	0.04	17.60	0.3545	-0.0188	0.1124	-0.0531	0.3171	-0.0802	-0.0017	0.0034	0.0218	-0.0421
50	0.04	18.44	0.3024	-0.0177	0.0918	-0.0585	0.3035	-0.0799	-0.0069	0.0071	0.0870	-0.0886
51	0.02	19.24	0.2618	-0.0167	0.0737	-0.0638	0.2816	-0.0739	-0.0004	0.0033	0.0061	-0.0443
52	0.03	19.77	0.2298	-0.0161	0.0626	-0.0703	0.2723	-0.0962	-0.0030	0.0023	0.0312	-0.0244

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	75	0.85	1.7	0.0	BZWO16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
1	0.02	-19.93	0.1002	-0.1473	3.4998	-7.3585	-0.0110	0.9488	-1.4699		
2	0.01	-19.93	0.0671	-0.1919	3.5303	-7.3602	-0.0070	0.9454	-2.8605		
3	0.01	-19.63	0.0951	-0.2341	3.5582	-7.3792	-0.0080	0.9508	-2.4620		
4	0.01	-18.86	0.0976	-0.2376	3.4009	-7.2449	-0.0040	0.9437	-2.4348		
5	0.01	-18.03	0.0647	-0.2166	3.3832	-7.2511	0.0010	0.9333	-3.3474		
6	0.01	-17.15	0.1019	-0.2346	3.2282	-7.1521	0.0030	0.9376	-2.3028		
7	0.01	-16.35	0.0908	-0.2361	3.0946	-7.0711	0.0080	0.9349	-2.6004		
8	0.01	-15.52	0.0689	-0.1394	2.5577	-7.0524	0.0080	0.9311	-2.0241		
9	0.01	-14.73	0.0791	-0.1937	2.8741	-6.9694	0.0160	0.9203	-2.4493		
10	0.01	-13.89	0.0754	-0.2085	2.7682	-6.9341	0.0180	0.9134	-2.7660		
11	0.01	-13.05	0.0354	-0.1235	2.6559	-6.8518	0.0110	0.9083	-3.4904		
12	0.01	-12.25	0.0639	-0.1774	2.5814	-6.8215	0.0110	0.8965	-2.7772		
13	0.01	-11.50	0.0329	-0.1290	2.4767	-6.7609	0.0180	0.8903	-3.9228		
14	0.01	-10.71	0.0448	-0.1537	2.3507	-6.6595	0.0120	0.8756	-3.4312		
15	0.01	-9.99	0.0533	-0.1466	2.2589	-6.5670	0.0140	0.8612	-2.7508		
16	0.01	-9.18	0.0373	-0.1002	2.2296	-6.5340	0.0110	0.8510	-2.6869		
17	0.01	-8.41	0.0469	-0.1936	2.0817	-6.4390	0.0130	0.8488	-4.1292		
18	0.01	-7.65	0.0368	-0.1355	1.9960	-6.3280	0.0090	0.8304	-3.6826		
19	0.01	-6.81	0.0353	-0.2054	1.8531	-6.2058	0.0150	0.8191	-5.8193		
20	0.01	-6.03	0.0862	-0.2406	1.8820	-6.2413	0.0120	0.8168	-2.7921		
21	0.01	-5.24	0.0451	-0.1491	1.8184	-6.2272	0.0080	0.8242	-3.3069		
22	0.01	-4.50	0.0536	-0.1830	1.7268	-6.1700	0.0100	0.8277	-3.4149		
23	0.01	-3.70	0.0703	-0.2124	1.6211	-6.1190	0.0130	0.8379	-3.0216		
24	0.01	-2.89	0.0621	-0.2549	1.5606	-6.0193	0.0110	0.8219	-4.1053		
25	0.01	-2.06	0.0324	-0.1183	1.4629	-5.9276	0.0060	0.8123	-3.6531		
26	0.01	-1.31	0.0354	-0.1785	1.4683	-5.8991	0.0130	0.7961	-5.0441		
27	0.01	-0.45	0.0392	-0.2279	1.3490	-5.7331	0.0100	0.7618	-5.8133		
28	0.01	0.28	0.0497	-0.1956	1.2429	-5.6516	0.0100	0.7385	-3.9352		
29	0.01	1.07	0.0710	-0.2474	1.2336	-5.6046	0.0210	0.6999	-3.4845		
30	0.0	1.80	0.0846	-0.3624	1.1353	-5.6208	0.0390	0.6879	-4.2842		
31	0.0	2.60	0.1004	-0.3845	1.1673	-5.8037	0.0340	0.6826	-3.8303		
32	0.01	3.33	0.0892	-0.3138	1.1223	-5.8536	0.0300	0.6722	-3.5188		
33	0.01	4.12	0.0689	-0.2904	1.1232	-5.9508	0.0240	0.6752	-4.2157		
34	0.01	4.88	0.0467	-0.2293	1.0427	-6.0121	0.0290	0.6829	-4.9118		
35	0.01	5.71	0.0749	-0.2908	0.9901	-6.1005	0.0290	0.7006	-3.8833		
36	0.01	6.51	0.0596	-0.2164	0.9611	-6.1379	0.0220	0.7046	-3.6315		
37	0.01	7.26	0.0479	-0.2440	0.9337	-6.2525	0.0050	0.7148	-5.0952		
38	0.01	8.09	0.0593	-0.2410	0.8488	-6.1867	0.0140	0.7098	-4.0644		
39	0.01	8.88	0.0691	-0.2467	0.7370	-6.0661	0.0190	0.6957	-3.5708		
40	0.01	9.72	0.0140	-0.1116	0.6426	-5.9653	0.0220	0.6803	-7.9714		
41	0.01	10.49	-0.0037	0.0112	0.5521	-5.7953	0.0200	0.6678	-3.0216		
42	0.01	11.32	0.0630	-0.2562	0.4347	-5.5550	0.0060	0.6407	-4.0667		
43	0.0	12.08	0.1177	-0.4757	0.2961	-5.3368	-0.0030	0.5848	-4.0423		
44	0.01	12.87	0.0651	-0.2071	0.1761	-5.2838	-0.0050	0.5315	-3.1819		
45	0.01	13.63	0.0682	-0.1535	0.0863	-5.1691	-0.0140	0.5046	-2.2504		
46	0.01	14.43	0.0443	-0.1220	0.0014	-5.0743	-0.0240	0.4771	-2.7544		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	75	0.85	1.7	0.0	B2WDF16	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	15.17	0.0748	-0.1787	-0.1241	-4.9426	-0.0320	0.4328	-2.3893		
48	0.01	15.98	0.0906	-0.2248	-0.3386	-4.7753	-0.0310	0.4082	-2.4817		
49	0.01	16.76	0.1021	-0.2479	-0.3911	-4.6267	-0.0540	0.3867	-2.4284		
50	0.01	17.55	0.0840	-0.2676	-0.5848	-4.4516	-0.0460	0.3586	-3.1857		
51	0.01	18.43	0.0907	-0.2779	-0.7816	-4.1341	-0.0430	0.3210	-3.0648		
52	0.02	19.22	0.0293	-0.0300	-0.9499	-3.8335	-0.0180	0.2937	-1.0246		
53	0.01	20.06	-0.0297	-0.0214	-1.1040	-3.4728	-0.0210	0.2486	0.7212		

MARTIN MISSILE FAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	75	0.85	1.7	U.0	B2WUF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.93	1.2127	0.0151	0.5012	0.0125	0.4628	0.0202	0.0065	-0.0018	0.3218	-0.0876
2	0.01	-19.93	1.2111	0.0149	0.5592	0.0123	0.4617	0.0135	0.0060	-0.0084	0.2963	-0.6223
3	0.01	-19.63	1.2064	0.0156	0.5543	0.0129	0.4628	0.0199	0.0054	-0.0072	0.2714	-0.3603
4	0.01	-18.86	1.1972	0.0164	0.5504	0.0137	0.4598	0.0069	0.0052	-0.0091	0.7536	-1.3190
5	0.01	-18.03	1.1961	0.0180	0.5522	0.0150	0.4616	0.0122	0.0061	-0.0105	0.5000	-0.8635
6	0.01	-17.15	1.1762	0.0195	0.5421	0.0166	0.4609	0.0057	0.0062	-0.0115	1.0877	-2.0177
7	0.01	-16.35	1.1724	0.0212	0.5384	0.0181	0.4592	0.0114	0.0063	-0.0073	0.5526	-0.6465
8	0.01	-15.52	1.1589	0.0228	0.5307	0.0197	0.4579	0.0002	0.0043	-0.0159	21.5000	-79.6668
9	0.01	-14.73	1.1505	0.0240	0.5261	0.0209	0.4572	0.0014	0.0032	-0.0134	2.2857	-9.5954
10	0.01	-13.89	1.1374	0.0262	0.5191	0.0230	0.4565	0.0056	0.0032	-0.0100	0.5714	-1.7918
11	0.01	-13.05	1.1253	0.0280	0.5082	0.0249	0.4516	0.0048	0.0028	-0.0135	0.5833	-2.8126
12	0.01	-12.25	1.1112	0.0300	0.5013	0.0270	0.4511	0.0124	0.0035	-0.0038	0.2423	-0.3039
13	0.01	-11.50	1.0994	0.0317	0.4948	0.0288	0.4501	-0.0036	0.0013	-0.0199	-0.3611	5.5277
14	0.01	-10.71	1.0808	0.0340	0.4835	0.0315	0.4474	0.0054	0.0016	-0.0089	0.2963	-1.6483
15	0.01	-9.99	1.0621	0.0353	0.4732	0.0332	0.4455	0.0074	0.0016	-0.0102	0.2162	-1.3830
16	0.01	-9.18	1.0511	0.0370	0.4703	0.0352	0.4475	0.0147	0.0022	-0.0060	0.1497	-0.4083
17	0.01	-8.41	1.0407	0.0386	0.4604	0.0371	0.4424	0.0126	0.0013	-0.0040	0.1032	-0.3176
18	0.01	-7.65	1.0209	0.0402	0.4513	0.0394	0.4420	0.0124	0.0011	-0.0029	0.0887	-0.2313
19	0.01	-6.81	1.0090	0.0418	0.4440	0.0414	0.4401	0.0151	0.0008	-0.0071	0.0530	-0.4681
20	0.01	-6.03	1.0024	0.0429	0.4388	0.0428	0.4378	0.0283	0.0015	-0.0014	0.0530	0.0505
21	0.01	-5.24	0.9786	0.0440	0.4276	0.0450	0.4369	0.0177	0.0019	-0.0042	0.1073	-0.2374
22	0.01	-4.50	0.9771	0.0445	0.4249	0.0455	0.4348	0.0191	0.0021	-0.0029	0.1099	-0.1537
23	0.01	-3.70	0.9608	0.0452	0.4156	0.0470	0.4325	0.0111	0.0018	-0.0047	0.1622	-0.4235
24	0.01	-2.89	0.9482	0.0448	0.4114	0.0472	0.4338	0.0217	0.0025	-0.0002	0.1152	-0.0078
25	0.01	-2.06	0.9117	0.0453	0.3960	0.0497	0.4343	0.0046	0.0022	-0.0060	0.4783	-1.2972
26	0.01	-1.31	0.9040	0.0453	0.3924	0.0501	0.4341	0.0094	0.0007	-0.0046	0.0745	-0.4859
27	0.01	-0.45	0.8806	0.0455	0.3824	0.0517	0.4348	0.0185	0.0032	-0.0015	0.1730	-0.0840
28	0.01	0.28	0.8662	0.0456	0.3750	0.0526	0.4330	0.0199	0.0032	-0.0002	0.1608	-0.0085
29	0.01	1.07	0.8545	0.0459	0.3676	0.0537	0.4302	0.0244	0.0035	0.0020	0.1434	0.0832
30	0.0	1.80	0.8685	0.0462	0.3734	0.0532	0.4299	0.0308	0.0032	0.0040	0.1039	0.1287
31	0.0	2.60	0.8833	0.0479	0.3799	0.0542	0.4301	0.0356	0.0046	0.0054	0.1292	0.1506
32	0.01	3.33	0.8779	0.0494	0.3812	0.0563	0.4343	0.0294	0.0051	0.0032	0.1735	0.1087
33	0.01	4.12	0.8775	0.0500	0.3797	0.0570	0.4327	0.0268	0.0042	0.0007	0.1567	0.0272
34	0.01	4.88	0.8795	0.0503	0.3845	0.0572	0.4371	0.0125	0.0007	-0.0025	0.0560	-0.2028
35	0.01	5.71	0.8726	0.0498	0.3842	0.0571	0.4403	0.0189	0.0029	-0.0013	0.1534	-0.0689
36	0.01	6.51	0.8684	0.0502	0.3809	0.0578	0.4386	0.0124	0.0026	-0.0027	0.2097	-0.2152
37	0.01	7.26	0.8691	0.0508	0.3791	0.0585	0.4362	0.0151	0.0042	-0.0002	0.2781	-0.0112
38	0.01	8.09	0.8512	0.0487	0.3746	0.0572	0.4401	0.0157	0.0031	-0.0025	0.1975	-0.1572
39	0.01	8.88	0.8235	0.0493	0.3669	0.0599	0.4455	0.0197	0.0040	0.0015	0.2030	0.0743
40	0.01	9.72	0.8337	0.0754	0.3686	0.0904	0.4421	0.0293	0.0031	0.0042	0.1058	0.1421
41	0.01	10.49	0.8133	0.0881	0.3564	0.1083	0.4382	0.0227	0.0070	0.0020	0.3084	0.0865
42	0.01	11.32	0.7783	0.0866	0.3411	0.1113	0.4383	0.0198	0.0033	0.0013	0.1667	0.0655
43	0.0	12.08	0.7100	0.0521	0.3131	0.0734	0.4410	0.0264	0.0013	0.0023	0.0492	0.0870
44	0.01	12.87	0.6663	0.0563	0.2936	0.0845	0.4407	0.0337	0.0071	0.0061	0.2107	0.1819
45	0.01	13.63	0.6840	0.0549	0.3031	0.0803	0.4432	0.0420	0.0067	0.0083	0.1595	0.1975
46	0.01	14.43	0.4716	0.0678	0.2909	0.1438	0.6169	0.0262	0.0050	0.0036	0.1908	0.1386

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		75	0.85	1.7		0.0	B2WOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	15.17	0.3910	0.1058	0.2593	0.2706	0.6631	0.0298	0.0059	0.0036	0.1980	0.1218	
48	0.01	15.98	0.3378	0.0988	0.2357	0.2925	0.6976	0.0329	0.0068	0.0052	0.2067	0.1569	
49	0.01	16.76	0.3052	0.0899	0.2201	0.2946	0.7212	0.0291	0.0068	0.0069	0.2337	0.2370	
50	0.01	17.55	0.2612	0.0810	0.1978	0.3101	0.7574	0.0411	0.0066	0.0074	0.1606	0.1799	
51	0.01	18.43	0.1963	0.0703	0.1710	0.3581	0.8712	0.0453	0.0063	0.0113	0.1832	0.2493	
52	0.02	19.22	0.1492	0.0619	0.1484	0.4149	0.9947	0.0330	0.0052	0.0051	0.1576	0.1544	
53	0.01	20.06	0.0923	0.0511	0.1223	0.5536	1.3245	0.0354	0.0045	0.0016	0.1271	0.0451	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	75	0.85	1.7	0.0	82NOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.93	1.2787	0.0442	0.5406	0.0346	0.4228	-0.0331	-0.0056	-0.0064	0.1692	0.1942
2	0.01	-19.93	1.2697	0.0442	0.5416	0.0348	0.4265	-0.0374	-0.0064	-0.0067	0.1711	0.1781
3	0.01	-19.63	1.2844	0.0445	0.5406	0.0346	0.4209	-0.0247	-0.0048	-0.0050	0.1943	0.2037
4	0.01	-18.86	1.2745	0.0455	0.5321	0.0357	0.4175	-0.0245	-0.0049	-0.0058	0.2000	0.2353
5	0.01	-18.03	1.2569	0.0474	0.5280	0.0377	0.4201	-0.0374	-0.0064	-0.0067	0.1711	0.1781
6	0.01	-17.15	1.2364	0.0480	0.5240	0.0388	0.4238	-0.0295	-0.0048	-0.0036	0.1627	0.1230
7	0.01	-16.35	1.2070	0.0501	0.5138	0.0415	0.4257	-0.0207	-0.0041	-0.0038	0.1981	0.1835
8	0.01	-15.52	1.2056	0.0522	0.5060	0.0433	0.4197	-0.0255	-0.0038	-0.0025	0.1490	0.0979
9	0.01	-14.73	1.1909	0.0539	0.4977	0.0453	0.4179	-0.0206	-0.0038	-0.0039	0.1845	0.1876
10	0.01	-13.89	1.1691	0.0562	0.4822	0.0481	0.4210	-0.0129	-0.0015	-0.0008	0.1163	0.0619
11	0.01	-13.05	1.1617	0.0577	0.4863	0.0497	0.4186	-0.0255	-0.0028	-0.0025	0.1098	0.0979
12	0.01	-12.25	1.1529	0.0593	0.4782	0.0514	0.4147	-0.0129	-0.0013	-0.0008	0.1008	0.0619
13	0.01	-11.50	1.1385	0.0610	0.4711	0.0536	0.4138	-0.0262	-0.0023	-0.0000	0.0878	0.0012
14	0.01	-10.71	1.1267	0.0627	0.4597	0.0556	0.4080	-0.0181	-0.0008	0.0021	0.0442	-0.1143
15	0.01	-9.99	1.0980	0.0639	0.4500	0.0582	0.4098	0.0044	-0.0003	0.0003	-0.0682	0.0605
16	0.01	-9.18	1.0878	0.0657	0.4456	0.0604	0.4096	-0.0174	-0.0015	-0.0004	0.0862	0.0229
17	0.01	-8.41	1.0573	0.0665	0.4392	0.0629	0.4154	-0.0139	-0.0003	0.0024	0.0216	-0.1704
18	0.01	-7.65	1.0246	0.0676	0.4306	0.0653	0.4162	-0.0137	-0.0005	0.0016	0.0365	-0.1193
19	0.01	-6.81	1.0320	0.0687	0.4206	0.0666	0.4075	-0.0091	-0.0005	0.0011	0.0549	-0.1173
20	0.01	-6.03	1.0027	0.0697	0.4116	0.0695	0.4105	-0.0004	0.0000	0.0017	0.0000	-0.1608
21	0.01	-5.24	0.9944	0.0706	0.4116	0.0710	0.4140	-0.0005	0.0007	0.0016	-1.4000	-3.2668
22	0.01	-4.50	0.9932	0.0707	0.4041	0.0712	0.4069	-0.0005	0.0007	0.0016	-1.4000	-3.2668
23	0.01	-3.70	0.9762	0.0712	0.4003	0.0729	0.4100	-0.0103	0.0009	0.0051	-0.0874	-0.4920
24	0.01	-2.89	0.9406	0.0707	0.3875	0.0752	0.4124	0.0076	0.0022	0.0038	0.2895	0.5043
25	0.01	-2.06	0.9521	0.0699	0.3859	0.0734	0.4053	-0.0103	0.0009	0.0051	-0.0874	-0.4920
26	0.01	-1.31	0.9233	0.0696	0.3761	0.0754	0.4073	-0.0020	0.0024	0.0064	-1.2000	-3.2168
27	0.01	-0.45	0.8964	0.0692	0.3658	0.0772	0.4081	0.0075	0.0021	0.0038	0.2600	0.5065
28	0.01	0.28	0.8742	0.0687	0.3524	0.0786	0.4031	0.0115	0.0024	0.0056	0.2087	0.4897
29	0.01	1.07	0.8385	0.0694	0.3401	0.0828	0.4056	0.0064	0.0031	0.0078	0.4844	1.2238
30	0.0	1.80	0.8289	0.0695	0.3331	0.0838	0.4019	0.0020	0.0023	0.0084	1.1500	4.1832
31	0.0	2.60	0.8364	0.0703	0.3368	0.0841	0.4027	0.0020	0.0024	0.0085	1.2000	4.2332
32	0.01	3.33	0.8478	0.0720	0.3479	0.0849	0.4104	0.0055	0.0043	0.0111	0.7818	2.0241
33	0.01	4.12	0.8638	0.0740	0.3463	0.0857	0.4009	0.0015	0.0041	0.0093	2.7333	6.1999
34	0.01	4.88	0.8574	0.0739	0.3475	0.0862	0.4053	0.0116	0.0032	0.0058	0.2759	0.4970
35	0.01	5.71	0.8766	0.0735	0.3519	0.0838	0.4014	0.0156	0.0034	0.0078	0.2179	0.4999
36	0.01	6.51	0.8735	0.0736	0.3581	0.0843	0.4099	0.0020	0.0024	0.0086	1.2000	4.2832
37	0.01	7.26	0.8950	0.0731	0.3664	0.0817	0.4094	0.0203	0.0031	0.0073	0.1527	0.3578
38	0.01	8.09	0.8745	0.0716	0.3553	0.0819	0.4063	0.0159	0.0019	0.0077	0.1195	0.4842
39	0.01	8.88	0.8512	0.0701	0.3390	0.0824	0.3983	0.0021	0.0009	0.0092	0.4286	4.3008
40	0.01	9.72	0.8116	0.0690	0.3296	0.0850	0.4062	-0.0102	-0.0003	0.0052	0.0294	-0.5099
41	0.01	10.49	0.7884	0.0686	0.3188	0.0870	0.4044	-0.0065	0.0006	0.0078	-0.0923	-1.2052
42	0.01	11.32	0.7908	0.1133	0.3211	0.1433	0.4061	-0.0010	-0.0013	0.0049	-1.3000	-4.8668
43	0.0	12.08	0.7395	0.1124	0.3015	0.1520	0.4077	0.0023	-0.0001	0.0092	-0.0455	3.9854
44	0.01	12.87	0.7000	0.0698	0.2795	0.0997	0.3992	-0.0011	-0.0003	0.0048	0.2727	-4.3941
45	0.01	13.63	0.6628	0.0778	0.2698	0.1174	0.4070	-0.0264	-0.0038	-0.0001	0.1439	0.0037
46	0.01	14.43	0.6473	0.0970	0.2637	0.1499	0.4074	-0.0297	-0.0052	-0.0045	0.1751	0.1514

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACF		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		75	0.85	1.7	0.0	0.0	B2WOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4	
47	0.01	15.17	0.6237	0.1305	0.2462	0.2092	0.3948	-0.0235	-0.0068	-0.0109	0.2894	0.4651	
48	0.01	15.98	0.5830	0.1242	0.2247	0.2130	0.3854	-0.0251	-0.0050	-0.0060	0.1992	0.2376	
49	0.01	16.76	0.5623	0.1141	0.2133	0.2029	0.3793	-0.0522	-0.0111	-0.0213	0.2126	0.4079	
50	0.01	17.55	0.5193	0.1043	0.1922	0.2008	0.3702	-0.0485	-0.0095	-0.0186	0.1959	0.3827	
51	0.01	18.43	0.4561	0.0903	0.1667	0.1980	0.3654	-0.0268	-0.0076	-0.0154	0.2836	0.5758	
52	0.02	19.22	0.3864	0.0762	0.1367	0.1972	0.3537	-0.0175	-0.0031	-0.0011	0.1771	0.0646	
53	0.01	20.06	0.3169	0.0650	0.1137	0.2051	0.3588	-0.0177	-0.0026	-0.0003	0.1469	0.0168	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	76	0.92	1.7	0.0	B2M0F16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.91	0.0886	-0.2550	3.6474	-7.6261	-0.0200	0.9924	-2.8786		
2	0.01	-19.90	0.0500	-0.1610	3.7399	-7.6206	-0.0180	0.9899	-3.2200		
3	0.01	-19.55	0.0739	-0.2654	3.7098	-7.6894	-0.0140	0.9915	-3.5922		
4	0.01	-18.80	0.0790	-0.2216	3.6455	-7.6874	-0.0230	0.9732	-2.8051		
5	0.0	-17.98	0.0119	-0.1596	3.4625	-7.6372	-0.0200	0.9944	-13.4168		
6	0.01	-17.09	0.0782	-0.2664	3.4337	-7.6697	-0.0120	0.9710	-3.4077		
7	0.01	-16.30	0.0895	-0.2533	3.2491	-7.6003	-0.0380	0.9836	-2.8302		
8	0.01	-15.47	0.0790	-0.2646	3.1872	-7.6106	0.0030	0.9816	-3.3494		
9	0.02	-14.69	0.1026	-0.2176	2.9811	-7.5431	0.0050	0.9956	-2.1212		
10	0.01	-13.85	0.0606	-0.2088	2.9000	-7.5526	0.0100	0.9937	-3.4462		
11	0.01	-13.01	0.0424	-0.1733	2.8198	-7.4853	0.0350	0.9810	-4.0887		
12	0.01	-12.27	0.0623	-0.2052	2.7092	-7.4595	0.0100	0.9810	-3.2941		
13	0.01	-11.46	0.0695	-0.2413	2.6437	-7.4206	0.0120	0.9642	-3.4719		
14	0.01	-10.73	0.0523	-0.1742	2.5502	-7.4247	0.0130	0.9727	-3.3312		
15	0.01	-9.98	0.0422	-0.1931	2.4370	-7.4272	0.0120	0.9645	-4.5754		
16	0.01	-9.21	0.0563	-0.2138	2.3745	-7.4127	0.0170	0.9623	-3.7979		
17	0.01	-8.44	0.0690	-0.2366	2.3018	-7.3830	0.0140	0.9639	-3.4290		
18	0.01	-7.65	0.0645	-0.2123	2.1660	-7.2759	0.0170	0.9519	-3.2915		
19	0.01	-6.83	0.0452	-0.2263	2.2537	-7.3636	0.0160	0.9367	-5.0062		
20	0.01	-6.04	0.0635	-0.2169	2.0600	-7.2035	0.0150	0.9368	-3.4157		
21	0.01	-5.29	0.0735	-0.2434	2.0080	-7.2157	0.0140	0.9330	-3.3184		
22	0.01	-4.54	0.0538	-0.1923	1.9711	-7.1540	0.0100	0.9292	-3.5747		
23	0.01	-3.75	0.0471	-0.2189	1.7461	-6.9849	0.0150	0.9336	-4.6484		
24	0.01	-2.93	0.0497	-0.2206	1.7509	-6.9506	0.0150	0.9206	-4.4382		
25	0.01	-2.12	0.0623	-0.2592	1.7207	-7.0023	0.0160	0.9236	-4.1608		
26	0.0	-1.37	0.1504	-0.5635	1.6374	-7.0337	0.0580	0.9259	-3.7471		
27	0.0	-0.57	0.1347	-0.5345	1.7273	-7.3105	0.0730	0.9476	-3.9687		
28	0.0	0.19	0.0897	-0.3595	1.6936	-7.6563	0.0330	0.9729	-4.0087		
29	0.01	0.94	0.0636	-0.2630	1.7598	-7.8650	0.0310	0.9771	-4.1359		
30	0.01	1.72	0.0656	-0.2478	1.7414	-8.0122	0.0320	0.9905	-3.7780		
31	0.0	2.45	0.0814	-0.3269	1.6007	-7.9362	0.0300	0.9816	-4.0167		
32	0.0	3.19	0.0479	-0.2770	1.5830	-7.9184	0.0240	0.9666	-5.7841		
33	0.01	3.98	0.0529	-0.2440	1.5309	-7.8285	0.0220	0.9515	-4.6136		
34	0.0	4.75	0.0743	-0.3140	1.4304	-7.7808	0.0240	0.9435	-4.2264		
35	0.0	5.58	0.0558	-0.2641	1.3595	-7.6006	0.0170	0.9087	-4.7333		
36	0.01	6.38	0.0589	-0.2534	1.2011	-7.4088	0.0350	0.8941	-4.3032		
37	0.0	7.17	0.0833	-0.3386	1.0597	-6.7568	0.0220	0.8251	-4.0651		
38	0.01	7.98	0.0762	-0.3016	0.9204	-6.4579	0.0190	0.7853	-3.9591		
39	0.0	8.78	0.0821	-0.3439	0.7811	-6.2259	0.0260	0.7514	-4.1893		
40	0.0	9.61	0.0828	-0.3449	0.7107	-6.0533	0.0400	0.7264	-4.1657		
41	0.01	10.42	0.0626	-0.2426	0.5770	-5.6812	0.0180	0.6732	-3.8760		
42	0.01	11.22	0.1058	-0.3181	0.4507	-5.5724	0.0330	0.6447	-3.0068		
43	0.01	11.98	0.0878	-0.2809	0.3356	-5.7831	-0.0020	0.6438	-3.1995		
44	0.01	12.79	0.0756	-0.2558	0.2812	-5.6139	0.0070	0.6137	-3.3841		
45	0.01	13.51	0.0757	-0.2379	0.1101	-5.3024	-0.0070	0.5647	-3.1437		
46	0.01	14.32	0.0509	-0.1512	-0.0814	-5.0394	-0.0140	0.5152	-2.9717		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		76		0.92		1.7	0.0	BZNOF16	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP					
47	0.01	15.07	0.0888	-0.2003	-0.1686	-4.8633	-0.0210	0.4881	-2.2559					
48	0.01	15.86	0.0946	-0.2294	-0.3564	-4.6544	-0.0120	0.4414	-2.4254					
49	0.01	16.64	0.1071	-0.2969	-0.4815	-4.4842	-0.0210	0.4033	-2.7725					
50	0.01	17.47	0.0497	-0.1386	-0.6673	-4.2481	-0.0290	0.3528	-2.7883					
51	0.01	18.31	0.0531	-0.1763	-0.8143	-3.9803	-0.0340	0.3029	-3.3209					
52	0.01	19.13	0.0201	-0.0901	-1.0888	-3.6423	-0.0060	0.2471	-4.4846					
53	0.01	19.95	0.0265	-0.1361	-1.2060	-3.3949	-0.0120	0.2084	-5.1358					

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION		
6	76	0.92	1.7	0.0	B240F16	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCFF1	CNF2	CH2	CB2	XCFF2	YCFF2
1	0.01	-19.91	1.0476	0.0103	0.5960	0.0098	0.5689	0.0558	0.0077	0.0052	0.1380	0.0931
2	0.01	-19.90	1.0469	0.0100	0.5589	0.0096	0.5721	0.0424	0.0049	-0.0017	0.1156	-0.0394
3	0.01	-19.55	1.0535	0.0100	0.5975	0.0095	0.5672	0.0493	0.0030	-0.0043	0.0609	-0.0867
4	0.01	-18.80	1.0430	0.0112	0.5916	0.0107	0.5673	0.0543	0.0050	-0.0003	0.0921	-0.0056
5	0.0	-17.98	1.0382	0.0123	0.5895	0.0118	0.5679	0.0576	0.0057	0.0048	0.0990	0.0832
6	0.01	-17.09	1.0217	0.0140	0.5826	0.0137	0.5703	0.0446	-0.0018	-0.0085	-0.0404	-0.1914
7	0.01	-16.30	1.0053	0.0160	0.5742	0.0159	0.5712	0.0411	-0.0007	-0.0071	-0.0170	-0.1729
8	0.01	-15.47	1.0071	0.0172	0.5749	0.0171	0.5708	0.0372	-0.0047	-0.0149	-0.1263	-0.4007
9	0.02	-14.69	0.9917	0.0193	0.5701	0.0193	0.5749	0.0321	-0.0026	-0.0133	-0.0810	-0.4144
10	0.01	-13.85	0.9879	0.0205	0.5656	0.0208	0.5725	0.0351	-0.0025	-0.0134	-0.0712	-0.3819
11	0.01	-13.01	0.9707	0.0220	0.5568	0.0227	0.5736	0.0303	-0.0017	-0.0127	-0.0561	-0.4193
12	0.01	-12.27	0.9643	0.0240	0.5508	0.0249	0.5712	0.0237	-0.0028	-0.0161	-0.1181	-0.6794
13	0.01	-11.46	0.9600	0.0258	0.5459	0.0269	0.5686	0.0324	-0.0018	-0.0151	-0.0556	-0.4662
14	0.01	-10.73	0.9516	0.0272	0.5415	0.0286	0.5690	0.0249	-0.0024	-0.0153	-0.0964	-0.6146
15	0.01	-9.98	0.9497	0.0295	0.5322	0.0311	0.5603	0.0316	-0.0013	-0.0123	-0.0411	-0.3883
16	0.01	-9.21	0.9466	0.0302	0.5310	0.0319	0.5610	0.0305	-0.0022	-0.0138	-0.0721	-0.4537
17	0.01	-8.44	0.9484	0.0320	0.5288	0.0337	0.5576	0.0430	0.0003	-0.0049	0.0070	-0.1133
18	0.01	-7.65	0.9354	0.0336	0.5231	0.0359	0.5592	0.0323	-0.0015	-0.0096	-0.0464	-0.2984
19	0.01	-6.83	0.9218	0.0348	0.5137	0.0378	0.5572	0.0384	-0.0009	-0.0103	-0.0234	-0.2683
20	0.01	-6.04	0.9119	0.0355	0.5057	0.0389	0.5545	0.0321	-0.0006	-0.0095	-0.0187	-0.2961
21	0.01	-5.29	0.8947	0.0368	0.4979	0.0411	0.5565	0.0321	-0.0003	-0.0095	-0.0093	-0.2961
22	0.01	-4.54	0.8827	0.0368	0.4913	0.0417	0.5566	0.0321	-0.0004	-0.0095	-0.0125	-0.2961
23	0.01	-3.75	0.8655	0.0371	0.4817	0.0429	0.5566	0.0272	-0.0005	-0.0079	-0.0184	-0.2918
24	0.01	-2.93	0.8567	0.0366	0.4766	0.0427	0.5563	0.0284	-0.0006	-0.0065	-0.0211	-0.2302
25	0.01	-2.12	0.8615	0.0350	0.4787	0.0406	0.5556	0.0426	-0.0003	-0.0038	-0.0070	-0.0893
26	0.0	-1.37	0.8992	0.0332	0.4597	0.0369	0.5557	0.0686	-0.0008	0.0068	-0.0117	0.0985
27	0.0	-0.57	0.9363	0.0339	0.5234	0.0362	0.5590	0.0617	-0.0024	0.0054	-0.0389	0.0869
28	0.0	0.19	0.9359	0.0352	0.5288	0.0376	0.5650	0.0383	0.0005	-0.0040	0.0131	-0.1054
29	0.01	0.94	0.9464	0.0359	0.5383	0.0379	0.5685	0.0316	-0.0006	-0.0074	-0.0190	-0.2332
30	0.01	1.72	0.9598	0.0372	0.5438	0.0388	0.5666	0.0273	-0.0008	-0.0080	-0.0293	-0.2932
31	0.0	2.45	0.9504	0.0380	0.5403	0.0400	0.5685	0.0339	0.0010	-0.0051	0.0295	-0.1506
32	0.0	3.19	0.9383	0.0404	0.5302	0.0431	0.5650	0.0269	0.0	-0.0070	0.0	-0.2616
33	0.01	3.98	0.9266	0.0429	0.5235	0.0463	0.5654	0.0269	0.0	-0.0070	0.0	-0.2616
34	0.0	4.75	0.9198	0.0458	0.5225	0.0498	0.5680	0.0395	0.0016	-0.0040	0.0405	-0.1022
35	0.0	5.58	0.8761	0.0467	0.5042	0.0533	0.5755	0.0363	0.0018	-0.0032	0.0496	-0.0883
36	0.01	6.38	0.8681	0.0736	0.5075	0.0848	0.5846	0.0392	0.0016	-0.0024	0.0408	-0.0622
37	0.0	7.17	0.7913	0.0879	0.4676	0.1111	0.5909	0.0422	0.0021	-0.0019	0.0498	-0.0459
38	0.01	7.98	0.7503	0.0911	0.4452	0.1214	0.5934	0.0410	0.0019	-0.0031	0.0463	-0.0765
39	0.0	8.78	0.7439	0.0781	0.4362	0.1050	0.5837	0.0422	0.0018	-0.0019	0.0427	-0.0459
40	0.0	9.61	0.4594	0.0848	0.4441	0.1846	0.9666	0.0383	0.0014	-0.0039	0.0366	-0.1028
41	0.01	10.42	0.3319	0.1156	0.3969	0.3483	1.1958	0.0422	0.0027	-0.0016	0.0640	-0.0388
42	0.01	11.22	0.3215	0.1169	0.3841	0.3636	1.1948	0.0465	0.0039	-0.0009	0.0039	-0.0195
43	0.01	11.98	0.3190	0.1126	0.3817	0.3530	1.1965	0.0488	0.0051	0.0019	0.1045	0.0381
44	0.01	12.79	0.2880	0.1101	0.3605	0.3823	1.2516	0.0427	0.0034	-0.0035	0.0796	-0.0813
45	0.01	13.51	0.2372	0.1071	0.3309	0.4515	1.3952	0.0562	0.0057	0.0024	0.1014	0.0432
46	0.01	14.32	0.1910	0.1024	0.3045	0.5361	1.5945	0.0437	0.0037	-0.0011	0.0847	-0.0261

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		76	0.92	1.7	0.0	82WOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.07	0.1571	0.0948	0.2844	0.6034	1.8106	0.0431	0.0045	0.0009	0.1044	0.0200
48	0.01	15.86	0.1086	0.0865	0.2640	0.7965	2.4308	0.0437	0.0042	-0.0008	0.0961	-0.0192
49	0.01	16.64	0.0745	0.0749	0.2460	1.0054	3.3023	0.0521	0.0061	0.0019	0.1171	0.0357
50	0.01	17.47	0.0067	0.0723	0.2124	10.7910	31.7063	0.0527	0.0074	0.0055	0.1404	0.1036
51	0.01	18.31	-0.0417	0.0654	0.1833	-1.5683	-4.3958	0.0491	0.0067	0.0021	0.1365	0.0420
52	0.01	19.13	-0.0846	0.0582	0.1549	-0.6879	-1.8311	0.0551	0.0070	0.0028	0.1270	0.0501
53	0.01	19.95	-0.1298	0.0491	0.1299	-0.3783	-1.0011	0.0646	0.0084	0.0081	0.1300	0.1258

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 76 0.92 1.7 0.0 82W0F16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-19.91	1.4023	0.0409	0.5577	0.0292	0.3977	-0.0792	-0.0080	0.0021	0.1010	-0.0266
2	0.01	-19.90	1.4279	0.0408	0.5595	0.0286	0.3921	-0.0636	-0.0066	0.0025	0.1038	-0.0394
3	0.01	-19.55	1.4123	0.0420	0.5546	0.0297	0.3927	-0.0786	-0.0089	0.0000	0.1132	-0.0001
4	0.01	-18.80	1.4080	0.0421	0.5541	0.0299	0.3935	-0.0792	-0.0042	0.0022	0.1035	-0.0279
5	0.0	-17.98	1.3839	0.0440	0.5494	0.0318	0.3970	-0.0635	-0.0071	0.0024	0.1118	-0.0384
6	0.01	-17.09	1.3838	0.0452	0.5430	0.0327	0.3924	-0.0758	-0.0073	0.0038	0.0963	-0.0507
7	0.01	-16.30	1.3585	0.0468	0.5407	0.0344	0.3980	-0.0684	-0.0059	0.0052	0.0863	-0.0761
8	0.01	-15.47	1.3431	0.0481	0.5352	0.0358	0.3985	-0.0684	-0.0057	0.0058	0.0633	-0.0849
9	0.02	-14.69	1.3311	0.0502	0.5292	0.0377	0.3976	-0.0571	-0.0043	0.0074	0.0753	-0.1291
10	0.01	-13.85	1.3137	0.0512	0.5185	0.0390	0.3947	-0.0560	-0.0057	0.0044	0.1018	-0.0793
11	0.01	-13.01	1.2933	0.0538	0.5131	0.0416	0.3968	-0.0633	-0.0066	0.0025	0.1043	-0.0396
12	0.01	-12.27	1.2852	0.0552	0.5102	0.0430	0.3970	-0.0648	-0.0048	0.0076	0.0741	-0.1174
13	0.01	-11.46	1.2806	0.0571	0.5031	0.0446	0.3929	-0.0559	-0.0057	0.0045	0.1020	-0.0800
14	0.01	-10.73	1.2803	0.0587	0.5000	0.0458	0.3905	-0.0603	-0.0050	0.0063	0.0829	-0.1046
15	0.01	-9.98	1.2544	0.0608	0.4902	0.0485	0.3908	-0.0526	-0.0043	0.0068	0.0817	-0.1288
16	0.01	-9.21	1.2518	0.0620	0.4890	0.0495	0.3907	-0.0366	-0.0034	0.0057	0.0929	-0.1559
17	0.01	-8.44	1.2249	0.0638	0.4788	0.0521	0.3909	-0.0568	-0.0036	0.0080	0.0634	-0.1404
18	0.01	-7.65	1.2257	0.0651	0.4762	0.0531	0.3885	-0.0487	-0.0034	0.0071	0.0698	-0.1452
19	0.01	-6.83	1.2043	0.0657	0.4658	0.0546	0.3901	-0.0486	-0.0034	0.0071	0.0700	-0.1462
20	0.01	-6.04	1.2050	0.0662	0.4645	0.0549	0.3855	-0.0492	-0.0027	0.0092	0.0549	-0.1871
21	0.01	-5.29	1.1765	0.0662	0.4602	0.0563	0.3912	-0.0461	-0.0014	0.0116	0.0304	-0.2525
22	0.01	-4.54	1.1707	0.0664	0.4528	0.0567	0.3868	-0.0375	-0.0014	0.0092	0.0373	-0.2455
23	0.01	-3.75	1.1330	0.0661	0.4455	0.0583	0.3932	-0.0418	-0.0014	0.0105	0.0335	-0.2505
24	0.01	-2.93	1.1296	0.0655	0.4356	0.0580	0.3856	-0.0332	-0.0020	0.0080	0.0602	-0.2421
25	0.01	-2.12	1.1181	0.0654	0.4300	0.0585	0.3846	-0.0426	-0.0003	0.0133	0.0070	-0.3123
26	0.0	-1.37	1.0682	0.0653	0.4095	0.0611	0.3834	-0.0391	-0.0003	0.0150	0.0077	-0.3829
27	0.0	-0.57	1.0876	0.0643	0.4136	0.0591	0.3803	-0.0319	0.0007	0.0170	-0.0219	-0.5320
28	0.0	0.19	1.2147	0.0658	0.4715	0.0542	0.3881	-0.0396	0.0007	0.0158	-0.0177	-0.3991
29	0.01	0.94	1.2509	0.0666	0.4781	0.0532	0.3822	-0.0385	-0.0003	0.0122	0.0078	-0.3161
30	0.01	1.72	1.2645	0.0671	0.4834	0.0531	0.3822	-0.0387	0.0006	0.0128	-0.0155	-0.3309
31	0.0	2.45	1.2706	0.0682	0.4852	0.0537	0.3819	-0.0315	0.0018	0.0147	-0.0571	-0.4668
32	0.0	3.19	1.2540	0.0699	0.4787	0.0557	0.3817	-0.0391	-0.0001	0.0150	0.0026	-0.3829
33	0.01	3.98	1.2359	0.0707	0.4777	0.0572	0.3865	-0.0391	-0.0001	0.0150	0.0026	-0.3829
34	0.0	4.75	1.2034	0.0711	0.4704	0.0591	0.3909	-0.0311	-0.0004	0.0147	0.0129	-0.4739
35	0.0	5.58	1.1743	0.0714	0.4588	0.0608	0.3907	-0.0360	0.0005	0.0181	-0.0139	-0.5629
36	0.01	6.38	1.1469	0.0715	0.4445	0.0623	0.3875	-0.0328	0.0	0.0213	0.0	-0.6485
37	0.0	7.17	1.0567	0.1189	0.4236	0.1125	0.4009	-0.0282	-0.0007	0.0187	0.0248	-0.6632
38	0.01	7.98	0.9966	0.1205	0.4013	0.1209	0.4027	-0.0196	-0.0013	0.0163	0.0663	-0.8301
39	0.0	8.78	0.9579	0.1229	0.3756	0.1283	0.3921	-0.0316	-0.0022	0.0170	0.0696	-0.5370
40	0.0	9.61	0.9078	0.1271	0.3556	0.1400	0.3917	-0.0280	-0.0029	0.0187	0.1036	-0.6668
41	0.01	10.42	0.8557	0.1391	0.3358	0.1626	0.3925	-0.0284	-0.0036	0.0208	0.1268	-0.7337
42	0.01	11.22	0.8327	0.1461	0.3238	0.1755	0.3888	-0.0272	-0.0035	0.0158	0.1287	-0.5822
43	0.01	11.98	0.8818	0.1446	0.3333	0.1640	0.3780	-0.0428	-0.0074	0.0162	0.1729	-0.3794
44	0.01	12.79	0.8288	0.1402	0.3104	0.1692	0.3745	-0.0311	-0.0070	0.0170	0.2251	-0.5478
45	0.01	13.51	0.7709	0.1350	0.2886	0.1751	0.3743	-0.0342	-0.0081	0.0141	0.1494	-0.2609
46	0.01	14.32	0.7226	0.1268	0.2649	0.1755	0.3666	-0.0676	-0.0092	0.0052	0.1361	-0.0765

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		76		0.92 1.7		0.0	B2MDF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.01	15.07	0.6852	0.1210	0.2454	0.1766	0.3282	-0.0627	-0.0103	0.0025	0.1643	-0.0400	
48	0.01	15.26	0.6260	0.1151	0.2218	0.1839	0.3543	-0.0630	-0.0095	0.0025	0.1508	-0.0398	
49	0.01	16.64	0.5848	0.1040	0.2043	0.1778	0.3493	-0.0624	-0.0089	-0.0005	0.1426	0.0079	
50	0.01	17.47	0.5290	0.0904	0.1848	0.1709	0.3493	-0.0624	-0.0093	-0.0005	0.1490	0.0079	
51	0.01	18.31	0.4933	0.0815	0.1578	0.1652	0.3198	-0.0630	-0.0080	0.0003	0.1270	-0.0049	
52	0.01	19.13	0.4087	0.0696	0.1271	0.1703	0.3109	-0.0337	-0.0036	0.0082	0.1068	-0.2425	
53	0.01	19.95	0.3546	0.0635	0.1073	0.1791	0.3025	-0.0325	-0.0066	0.0046	0.2031	-0.1406	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	77	0.97	1.7	0.0	B2NOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.76	0.0956	-0.2828	4.2592	-8.3016	-0.0230	1.0664	-2.9586		
2	0.0	-19.61	0.0744	-0.3011	4.1371	-8.5405	-0.0210	1.0431	-4.0479		
3	0.0	-18.84	0.0841	-0.3337	3.8901	-8.5377	-0.0220	1.0545	-3.9684		
4	-0.01	-18.00	-0.0057	-0.3060	3.7721	-8.3425	-0.0130	1.0969	53.6877		
5	0.01	-17.08	0.0917	-0.2463	4.1118	-8.4801	-0.0130	1.0589	-2.6868		
6	0.01	-16.33	0.0956	-0.2418	3.7647	-8.6291	-0.0050	1.0385	-2.5297		
7	0.0	-15.45	0.0745	-0.3433	3.3553	-8.1989	0.0010	1.0790	-4.6081		
8	0.0	-14.82	0.0667	-0.2973	3.4116	-8.9726	0.0160	1.0845	-4.4585		
9	0.0	-13.91	0.0153	-0.2374	3.4525	-9.2200	0.0140	1.0964	-15.5176		
10	0.02	-12.99	0.1499	-0.3218	3.2097	-8.7370	0.0020	1.0737	-2.1472		
11	0.01	-12.38	0.1003	-0.2954	2.6514	-8.6242	0.0180	1.1480	-2.9454		
12	0.0	-11.49	0.0152	-0.2223	3.0623	-9.6796	0.0160	1.0911	-14.6237		
13	0.01	-10.76	0.0994	-0.2741	2.9648	-8.9361	0.0100	1.0932	-2.7581		
14	0.01	-10.11	0.1153	-0.3044	2.8026	-9.1780	0.0190	1.1469	-2.6402		
15	0.0	-9.23	0.0516	-0.2492	2.4348	-8.7050	0.0130	1.1189	-4.8302		
16	0.01	-8.47	0.0642	-0.2508	2.6038	-8.8986	0.0170	1.0992	-3.9078		
17	0.02	-7.61	0.1444	-0.3151	2.4613	-8.7621	0.0100	1.1285	-2.1825		
18	0.01	-6.92	0.0803	-0.2624	2.4928	-8.9132	0.0150	1.1036	-3.2680		
19	0.01	-6.14	0.0544	-0.2321	2.4383	-8.9739	0.0210	1.1154	-4.2676		
20	0.01	-5.38	0.1011	-0.3185	2.3289	-8.9807	0.0260	1.1239	-3.1507		
21	0.0	-4.63	0.0618	-0.3302	2.3209	-9.1075	0.0310	1.1294	-5.3610		
22	0.0	-3.82	0.0701	-0.3141	2.3253	-9.3186	0.0360	1.1461	-4.4813		
23	0.0	-2.99	0.0942	-0.3518	2.5434	-9.6559	0.0210	1.1479	-3.7355		
24	0.01	-2.19	0.0665	-0.2611	2.3161	-9.5307	0.0200	1.1323	-3.9263		
25	0.0	-1.44	0.0944	-0.3611	2.2524	-9.5205	0.0260	1.1219	-3.8258		
26	0.01	-0.62	0.0827	-0.3077	2.0986	-9.4212	0.0150	1.1147	-3.7216		
27	0.0	0.13	0.0602	-0.2592	2.1515	-9.4853	0.0170	1.1124	-4.3070		
28	0.0	0.91	0.0760	-0.2974	2.0076	-9.2119	0.0170	1.0688	-3.9132		
29	0.0	1.65	0.0856	-0.3318	1.9793	-9.1322	0.0140	1.0570	-3.8766		
30	0.01	2.44	0.0964	-0.3229	1.7700	-8.8171	0.0090	1.0142	-3.3502		
31	0.01	3.18	0.0884	-0.3167	1.7014	-8.6701	0.0160	0.9852	-3.5833		
32	0.0	3.95	0.0740	-0.2966	1.4600	-8.4192	0.0140	0.9579	-4.0081		
33	0.0	4.73	0.0587	-0.2531	1.5244	-8.3263	0.0160	0.9351	-4.3131		
34	0.01	5.56	0.0824	-0.2943	1.4085	-8.1551	0.0070	0.9168	-3.5723		
35	0.01	6.38	0.0962	-0.3176	1.3883	-7.9309	0.0020	0.8711	-3.3043		
36	0.01	7.12	0.0752	-0.2632	1.1226	-7.5678	0.0090	0.8332	-3.5011		
37	0.01	7.95	0.0882	-0.2814	1.0364	-7.2432	0.0050	0.7814	-3.1914		
38	0.01	8.73	0.0586	-0.2320	0.8876	-7.0919	0.0420	0.7804	-3.9597		
39	0.01	9.56	0.0418	-0.2805	0.7329	-6.7863	0.0390	0.7501	-3.0558		
40	0.01	10.37	0.0908	-0.3291	0.7710	-6.7127	0.0140	0.7317	-3.6247		
41	0.01	11.16	0.0824	-0.2233	0.5883	-6.4789	0.0060	0.6955	-2.7107		
42	0.02	11.94	0.0529	-0.0561	0.4484	-6.3291	0.0	0.6592	-1.0597		
43	0.02	12.74	0.1023	-0.2032	0.3438	-6.2585	-0.0090	0.6550	-1.9865		
44	0.01	13.44	0.0535	-0.1429	0.0207	-5.8062	-0.0130	0.5866	-2.6710		
45	0.01	14.28	0.0710	-0.2144	0.0539	-5.5627	-0.0190	0.5539	-3.0197		
46	0.01	15.03	0.0646	-0.1564	-0.0866	-5.4061	-0.0120	0.5124	-2.4217		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	77	0.97	1.7	0.0	B2WUF16	0.0	30	0	30	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	15.80	0.0933	-0.2486	-0.2941	-5.0666	-0.0260	0.4584	-2.6647		
48	0.01	16.55	0.0991	-0.3177	-0.6058	-4.6695	-0.0390	0.3777	-3.2063		
49	0.0	17.42	0.0231	-0.1883	-0.5173	-4.5031	-0.0300	0.3739	-8.1532		
50	0.02	18.23	0.0419	-0.0557	-0.8011	-4.2868	-0.0150	0.3157	-1.3284		
51	0.02	19.04	0.0122	-0.0001	-1.0062	-3.7257	-0.0070	0.2565	-0.0066		
52	0.01	19.85	0.0353	-0.1854	-1.3397	-3.5807	-0.0140	0.1962	-5.2527		
53	0.01	20.27	-0.0293	0.0290	-1.3527	-3.1865	-0.0100	0.1579	-0.9904		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	77	0.97	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCFF1	CNF2	CH2	CB2	XCFF2	YCFF2
1	0.01	-19.76	-0.0527	0.0020	0.7446	-0.0380	-14.1298	0.0813	0.0098	0.0034	0.1205	0.0417
2	0.0	-19.61	-0.0580	0.0030	0.7382	-0.0517	-12.7271	0.0630	0.0035	0.0039	0.1508	0.0618
3	0.0	-18.84	-0.0618	0.0036	0.7401	-0.0583	-11.9758	0.0761	0.0109	0.0016	0.1432	0.0205
4	-0.01	-18.00	-0.0546	0.0045	0.7438	-0.0824	-13.6228	0.0718	0.0067	-0.0023	0.0933	-0.0317
5	0.01	-17.08	-0.0586	0.0061	0.7417	-0.1041	-12.6565	0.0652	0.0061	-0.0044	0.0936	-0.0671
6	0.01	-16.33	-0.0639	0.0069	0.7458	-0.1080	-11.6715	0.0605	0.0037	-0.0075	0.0612	-0.1246
7	0.0	-15.45	-0.0703	0.0109	0.7339	-0.1550	-10.4392	0.0516	0.0037	-0.0118	0.0717	-0.2288
8	0.0	-14.82	-0.0611	0.0119	0.7439	-0.1948	-12.1758	0.0462	0.0007	-0.0122	0.0152	-0.2642
9	0.0	-13.91	-0.0697	0.0140	0.7382	-0.2009	-10.5908	0.0533	0.0006	-0.0072	0.0113	-0.1358
10	0.02	-12.99	-0.0829	0.0164	0.7284	-0.1978	-8.7862	0.0510	0.0017	-0.0103	0.0333	-0.2021
11	0.01	-12.38	-0.0847	0.0182	0.7222	-0.2161	-8.5263	0.0403	0.0002	-0.0175	0.0050	-0.4335
12	0.0	-11.49	-0.0864	0.0191	0.7304	-0.2211	-8.4538	0.0469	0.0004	-0.0163	0.0085	-0.3470
13	0.01	-10.76	-0.0959	0.0204	0.7172	-0.2127	-7.4791	0.0482	0.0007	-0.0163	0.0145	-0.3390
14	0.01	-10.11	-0.0924	0.0211	0.7160	-0.2284	-7.7490	0.0467	0.0	-0.0161	0.0	-0.3456
15	0.0	-9.23	-0.0994	0.0216	0.7095	-0.2173	-7.1376	0.0474	-0.0002	-0.0133	-0.0042	-0.2807
16	0.01	-8.47	-0.1042	0.0227	0.7014	-0.2179	-6.7311	0.0487	-0.0006	-0.0187	-0.0123	-0.3834
17	0.02	-7.61	-0.1015	0.0227	0.7011	-0.2236	-6.9072	0.0606	0.0001	-0.0054	0.0017	-0.0892
18	0.01	-6.92	-0.1023	0.0230	0.6994	-0.2248	-6.8369	0.0510	-0.0006	-0.0113	-0.0118	-0.2217
19	0.01	-6.14	-0.0969	0.0238	0.7029	-0.2456	-7.2540	0.0363	-0.0020	-0.0236	-0.0551	-0.6503
20	0.01	-5.38	-0.0877	0.0240	0.7062	-0.2737	-8.0522	0.0509	-0.0009	-0.0103	-0.0177	-0.2031
21	0.0	-4.63	-0.0805	0.0239	0.7131	-0.2969	-8.8581	0.0521	-0.0010	-0.0092	-0.0192	-0.1773
22	0.0	-3.82	-0.0534	0.0235	0.7308	-0.4401	-13.6855	0.0417	-0.0015	-0.0120	-0.0360	-0.2879
23	0.0	-2.99	-0.0421	0.0235	0.7377	-0.5582	-17.5219	0.0539	0.0009	-0.0060	0.0167	-0.1121
24	0.01	-2.19	-0.0463	0.0243	0.7325	-0.5248	-15.8201	0.0405	-0.0012	-0.0131	-0.0296	-0.3236
25	0.0	-1.44	-0.0480	0.0244	0.7366	-0.5083	-15.3460	0.0464	0.0003	-0.0092	0.0065	-0.1991
26	0.01	-0.62	-0.0488	0.0251	0.7369	-0.5143	-15.1012	0.0515	0.0013	-0.0077	0.0252	-0.1503
27	0.0	0.13	-0.0684	0.0265	0.7308	-0.3874	-10.6843	0.0422	-0.0015	-0.0143	-0.0355	-0.1398
28	0.0	0.91	-0.0807	0.0275	0.7160	-0.3408	-8.8725	0.0501	0.0011	-0.0076	0.0220	-0.1518
29	0.0	1.65	-0.0985	0.0286	0.7041	-0.2904	-7.1480	0.0575	0.0027	-0.0045	0.0470	-0.0790
30	0.01	2.44	-0.1251	0.0297	0.6870	-0.2374	-5.4917	0.0581	0.0022	-0.0071	0.0379	-0.1229
31	0.01	3.18	-0.1438	0.0329	0.6727	-0.2288	-4.6779	0.0582	0.0021	-0.0072	0.0361	-0.1238
32	0.0	3.95	-0.1640	0.0317	0.6536	-0.1933	-3.9851	0.0504	0.0012	-0.0088	0.0238	-0.1747
33	0.0	4.73	-0.1862	0.0332	0.6378	-0.1783	-3.4251	0.0452	0.0004	-0.0105	0.0088	-0.2332
34	0.01	5.56	-0.2033	0.0377	0.6188	-0.1854	-3.0436	0.0503	0.0011	-0.0085	0.0219	-0.1698
35	0.01	6.38	-0.2250	0.0492	0.5938	-0.2187	-2.6392	0.0645	0.0029	-0.0046	0.0450	-0.0714
36	0.01	7.12	-0.2471	0.0515	0.5676	-0.2084	-2.2964	0.0546	0.0013	-0.0090	0.0238	-0.1650
37	0.01	7.95	-0.2905	0.0591	0.5394	-0.2034	-1.8568	0.0598	0.0020	-0.0076	0.0334	-0.1267
38	0.01	8.73	-0.2841	0.0981	0.5712	-0.3453	-2.0107	0.0597	0.0017	-0.0064	0.0285	-0.1073
39	0.01	9.56	-0.2942	0.0954	0.5494	-0.3243	-1.8673	0.0536	0.0009	-0.0097	0.0168	-0.1817
40	0.01	10.37	-0.3136	0.0935	0.5193	-0.2982	-1.6559	0.0712	0.0038	-0.0026	0.0534	-0.0362
41	0.01	11.16	-0.3541	0.0933	0.4933	-0.2635	-1.3931	0.0589	0.0017	-0.0086	0.0209	-0.1456
42	0.02	11.94	-0.3849	0.0890	0.4656	-0.2312	-1.2098	0.0499	0.0003	-0.0111	0.0060	-0.2219
43	0.02	12.74	-0.4006	0.0823	0.4476	-0.2054	-1.1174	0.0613	0.0028	-0.0068	0.0457	-0.1105
44	0.01	13.44	-0.4352	0.0780	0.4182	-0.1742	-0.9609	0.0615	0.0026	-0.0077	0.0423	-0.1253
45	0.01	14.28	-0.4787	0.0719	0.3837	-0.1502	-0.8015	0.0696	0.0049	-0.0010	0.0704	-0.0145
46	0.01	15.03	-0.5083	0.0661	0.3645	-0.1300	-0.7171	0.0671	0.0047	-0.0019	0.0700	-0.0289

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 77 0.97 1.7 0.0 B2WOF.16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.80	-0.5518	0.0608	0.3338	-0.1102	-0.6050	0.0719	0.0065	0.0027	0.0904	0.0370
48	0.01	16.55	-0.6024	0.0559	0.2988	-0.0928	-0.4960	0.0800	0.0077	0.0044	0.0962	0.0545
49	0.0	17.42	-0.6480	0.0508	0.2719	-0.0784	-0.4196	0.0778	0.0071	0.0033	0.0913	0.0427
50	0.02	18.23	-0.6859	0.0461	0.2437	-0.0672	-0.3554	0.0714	0.0063	0.0016	0.0882	0.0223
51	0.02	19.04	-0.7214	0.0399	0.2176	-0.0553	-0.3017	0.0742	0.0071	0.0023	0.0957	0.0313
52	0.01	19.85	-0.7649	0.0333	0.1861	-0.0435	-0.2433	0.0735	0.0070	-0.0001	0.0952	-0.0015
53	0.01	20.27	-0.7797	0.0290	0.1689	-0.0372	-0.2166	0.0770	0.0069	0.0031	0.0896	0.0397

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION		
6	7.7	U.97	1.7	0.0	82WOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-19.76	1.5845	0.0375	0.6030	0.0236	0.3794	-0.1079	-0.0097	0.0080	0.0899	-0.0746
2	0.0	-19.61	1.5888	0.0376	0.6062	0.0237	0.3816	-0.1076	-0.0108	0.0073	0.1004	-0.0683
3	0.0	-18.84	1.5820	0.0386	0.6031	0.0244	0.3813	-0.1117	-0.0108	0.0085	0.0967	-0.0759
4	-0.01	-18.00	1.5932	0.0411	0.6009	0.0258	0.3772	-0.1021	-0.0047	0.0126	0.0852	-0.1232
5	0.01	-17.08	1.5694	0.0422	0.5536	0.0269	0.3783	-0.1088	-0.0097	0.0107	0.0892	-0.0988
6	0.01	-16.33	1.5588	0.0434	0.5941	0.0278	0.3811	-0.1079	-0.0106	0.0079	0.0982	-0.0736
7	0.0	-15.45	1.5421	0.0463	0.5883	0.0300	0.3815	-0.0868	-0.0086	0.0115	0.0991	-0.1322
8	0.0	-14.82	1.5480	0.0476	0.5564	0.0307	0.3853	-0.0804	-0.0065	0.0146	0.0808	-0.1817
9	0.0	-13.91	1.5203	0.0502	0.5901	0.0330	0.3881	-0.0836	-0.0067	0.0136	0.0801	-0.1632
10	0.02	-12.99	1.5108	0.0520	0.5766	0.0344	0.3817	-0.0944	-0.0075	0.0142	0.0794	-0.1509
11	0.01	-12.38	1.5005	0.0541	0.5744	0.0361	0.3828	-0.0868	-0.0075	0.0140	0.0864	-0.1610
12	0.0	-11.49	1.5043	0.0561	0.5830	0.0373	0.3875	-0.0904	-0.0081	0.0139	0.0896	-0.1535
13	0.01	-10.76	1.4749	0.0567	0.5705	0.0384	0.3868	-0.0939	-0.0085	0.0142	0.0905	-0.1513
14	0.01	-10.11	1.4817	0.0577	0.5731	0.0389	0.3863	-0.0827	-0.0075	0.0135	0.0907	-0.1638
15	0.0	-9.23	1.4691	0.0584	0.5642	0.0392	0.3789	-0.0865	-0.0075	0.0140	0.0867	-0.1616
16	0.01	-8.47	1.4686	0.0591	0.5555	0.0402	0.3782	-0.0862	-0.0081	0.0140	0.0940	-0.1621
17	0.02	-7.61	1.4713	0.0593	0.5572	0.0403	0.3787	-0.0727	-0.0052	0.0163	0.0715	-0.2239
18	0.01	-6.92	1.4663	0.0600	0.5514	0.0409	0.3760	-0.0832	-0.0066	0.0156	0.0793	-0.1872
19	0.01	-6.14	1.4793	0.0592	0.5551	0.0400	0.3752	-0.0937	-0.0087	0.0142	0.0928	-0.1513
20	0.01	-5.38	1.4603	0.0600	0.5503	0.0411	0.3768	-0.0809	-0.0052	0.0191	0.0643	-0.2364
21	0.0	-4.63	1.4569	0.0600	0.5476	0.0412	0.3758	-0.0898	-0.0046	0.0178	0.0659	-0.2556
22	0.0	-3.82	1.5005	0.0596	0.5661	0.0377	0.3773	-0.0808	-0.0052	0.0191	0.0644	-0.2361
23	0.0	-2.99	1.5225	0.0608	0.5790	0.0399	0.3803	-0.0780	-0.0034	0.0213	0.0436	-0.2732
24	0.01	-2.19	1.5417	0.0597	0.5822	0.0387	0.3776	-0.0728	-0.0052	0.0162	0.0714	-0.2231
25	0.0	-1.44	1.5425	0.0598	0.5792	0.0388	0.3755	-0.0667	-0.0034	0.0201	0.0510	-0.3010
26	0.01	-0.62	1.5523	0.0610	0.5823	0.0393	0.3752	-0.0690	-0.0052	0.0158	0.0754	-0.2291
27	0.0	0.13	1.5472	0.0616	0.5772	0.0398	0.3731	-0.0727	-0.0052	0.0162	0.0715	-0.2225
28	0.0	0.91	1.5135	0.0624	0.5603	0.0412	0.3702	-0.0699	-0.0034	0.0184	0.0486	-0.2634
29	0.0	1.65	1.5050	0.0635	0.5565	0.0422	0.3698	-0.0636	-0.0020	0.0216	0.0314	-0.3397
30	0.01	2.44	1.4751	0.0647	0.5431	0.0439	0.3682	-0.0707	-0.0024	0.0211	0.0339	-0.2990
31	0.01	3.18	1.4360	0.0645	0.5261	0.0449	0.3664	-0.0670	-0.0022	0.0207	0.0328	-0.3086
32	0.0	3.95	1.3940	0.0639	0.5130	0.0458	0.3680	-0.0668	-0.0026	0.0200	0.0389	-0.3000
33	0.0	4.73	1.3570	0.0650	0.4990	0.0478	0.3677	-0.0742	-0.0032	0.0209	0.0431	-0.2813
34	0.01	5.56	1.3193	0.0684	0.4876	0.0518	0.3696	-0.0700	-0.0032	0.0185	0.0457	-0.2639
35	0.01	6.38	1.2816	0.0740	0.4678	0.0577	0.3650	-0.0678	-0.0020	0.0240	0.0295	-0.3541
36	0.01	7.12	1.2266	0.0747	0.4478	0.0609	0.3651	-0.0641	-0.0024	0.0236	0.0374	-0.3688
37	0.01	7.95	1.1475	0.0820	0.4173	0.0715	0.3636	-0.0637	-0.0028	0.0217	0.0440	-0.3403
38	0.01	8.73	1.1157	0.0955	0.3996	0.0856	0.3581	-0.0583	-0.0034	0.0146	0.0583	-0.2500
39	0.01	9.56	1.0865	0.1365	0.3954	0.1256	0.3640	-0.0582	-0.0040	0.0146	0.0687	-0.2510
40	0.01	10.37	1.0629	0.1343	0.3868	0.1264	0.3639	-0.0560	-0.0022	0.0145	0.0393	-0.3489
41	0.01	11.16	1.0325	0.1274	0.3707	0.1234	0.3591	-0.0734	-0.0040	0.0163	0.0545	-0.2226
42	0.02	11.94	1.0161	0.1168	0.3505	0.1149	0.3449	-0.0789	-0.0061	0.0105	0.0773	-0.1332
43	0.02	12.74	0.9757	0.1113	0.3348	0.1141	0.3432	-0.0833	-0.0061	0.0129	0.0732	-0.1554
44	0.01	13.44	0.9034	0.1062	0.3093	0.1176	0.3424	-0.0900	-0.0069	0.0111	0.0767	-0.1235
45	0.01	14.28	0.8316	0.1022	0.2836	0.1229	0.3410	-0.0893	-0.0069	0.0084	0.0773	-0.0946
46	0.01	15.03	0.7613	0.0973	0.2586	0.1245	0.3310	-0.0895	-0.0063	0.0085	0.0704	-0.0947

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	C/NF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6	77	0.97	1.7	0.0	BZWF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	0.01	15.80	0.7291	0.0917	0.2364	0.1258	0.3243	-0.0994	-0.0077	0.0031	0.0775	-0.0310
48	0.01	16.55	0.6682	0.0829	0.2107	0.1241	0.3153	-0.1060	-0.0090	-0.0001	0.0849	0.0011
49	0.0	17.42	0.6120	0.0744	0.1842	0.1216	0.3010	-0.1008	-0.0075	0.0058	0.0744	-0.0577
50	0.02	18.23	0.5360	0.0657	0.1546	0.1226	0.2884	-0.0866	-0.0087	0.0075	0.1005	-0.0871
51	0.02	19.04	0.4840	0.0580	0.1307	0.1198	0.2700	-0.0730	-0.0095	0.0126	0.1301	-0.1723
52	0.01	19.85	0.4229	0.0482	0.1036	0.1140	0.2450	-0.0756	-0.0110	0.0082	0.1455	-0.1086
53	0.01	20.27	0.3613	0.0444	0.0836	0.1229	0.2314	-0.0704	-0.0087	0.0156	0.1236	-0.2222

MARTIN MISSILE TALLS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	78	1.01	1.7	0.0	B2WU16	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.94	0.1220	-0.4067	4.2174	-8.8900	-0.0160	1.1588	-3.3344		
2	0.02	-19.57	0.1181	-0.2373	4.1699	-8.9064	-0.0070	1.1747	-2.0097		
3	0.0	-18.79	0.1073	-0.3782	4.0977	-8.8913	-0.0170	1.1505	-3.5249		
4	0.01	-17.97	0.0958	-0.2431	3.8746	-8.9660	-0.0060	1.1651	-2.5378		
5	0.01	-17.15	0.1163	-0.3318	3.7594	-9.2147	0.0010	1.1955	-2.8531		
6	0.01	-16.31	0.1467	-0.3703	3.7069	-9.1632	-0.0030	1.1744	-2.5247		
7	0.01	-15.52	0.1207	-0.3099	3.6504	-9.2490	0.0050	1.1641	-2.5682		
8	0.01	-14.69	0.1475	-0.3665	3.4707	-9.1715	0.0160	1.1593	-2.4847		
9	0.01	-13.90	0.1259	-0.2962	3.3304	-9.1479	0.0150	1.1543	-2.3531		
10	0.01	-13.03	0.1026	-0.3146	3.1607	-9.0823	0.0160	1.1507	-3.0667		
11	0.01	-12.28	0.1038	-0.2313	3.1212	-9.0711	0.0120	1.1375	-2.2285		
12	0.01	-11.49	0.0933	-0.2656	2.9927	-9.0921	0.0170	1.1407	-2.8469		
13	0.01	-10.76	0.1134	-0.2607	2.9195	-9.1647	0.0160	1.1448	-2.2995		
14	0.01	-10.01	0.1095	-0.2813	2.8258	-9.1555	0.0240	1.1557	-2.5689		
15	0.01	-9.23	0.1196	-0.2628	2.7775	-9.2009	0.0200	1.1630	-2.2737		
16	0.01	-8.43	0.0720	-0.2288	2.7399	-9.3472	0.0240	1.1884	-3.1778		
17	0.01	-7.68	0.0992	-0.2948	2.7248	-9.5130	0.0270	1.2047	-2.9726		
18	0.01	-6.90	0.1131	-0.3053	2.5822	-9.5073	0.0250	1.2073	-2.6997		
19	0.01	-6.08	0.1147	-0.2765	2.5984	-9.6179	0.0220	1.2143	-2.4113		
20	0.01	-5.32	0.1049	-0.3108	2.6012	-9.7548	0.0350	1.2197	-2.9634		
21	0.01	-4.56	0.0903	-0.2524	2.4432	-9.6956	0.0240	1.2099	-2.7953		
22	0.01	-3.79	0.1051	-0.2941	2.4756	-9.8040	0.0240	1.2024	-2.7987		
23	0.01	-2.94	0.0971	-0.2979	2.3398	-9.7589	0.0230	1.1842	-3.0684		
24	0.01	-2.18	0.0919	-0.2886	2.3070	-9.7089	0.0220	1.1616	-3.1410		
25	0.01	-1.38	0.1016	-0.3222	2.1968	-9.5427	0.0220	1.1277	-3.1717		
26	0.01	-0.56	0.1131	-0.3533	2.1618	-9.4017	0.0220	1.0961	-3.1241		
27	0.01	0.20	0.1005	-0.3247	2.0364	-9.2612	0.0200	1.0763	-3.2308		
28	0.01	0.97	0.0896	-0.2694	1.9348	-9.0600	0.0180	1.0479	-3.0071		
29	0.01	1.74	0.0918	-0.3025	1.8147	-8.8797	0.0160	1.0075	-3.2954		
30	0.01	2.49	0.0972	-0.2810	1.7520	-8.6989	0.0190	0.9920	-2.8918		
31	0.01	3.27	0.0996	-0.3054	1.6262	-8.5618	0.0190	0.9405	-3.0667		
32	0.01	4.02	0.0835	-0.2859	1.5880	-8.5404	0.0150	1.0000	-3.4240		
33	0.01	4.85	0.0871	-0.2819	1.5488	-8.3605	0.0080	0.9897	-3.2370		
34	0.01	5.64	0.0956	-0.2858	1.4217	-8.0816	0.0070	0.9648	-2.9900		
35	0.01	6.46	0.1074	-0.3053	1.2411	-7.7608	0.0030	0.9273	-2.8432		
36	0.01	7.22	0.0811	-0.2155	1.1002	-7.7154	0.0520	0.9305	-2.6577		
37	0.01	8.01	0.0838	-0.2293	1.0397	-7.4628	0.0470	0.8964	-2.7365		
38	0.01	8.84	0.0674	-0.2213	0.9314	-7.4361	0.0040	0.8962	-3.2843		
39	0.01	9.64	0.0722	-0.1711	0.8927	-7.2630	-0.0030	0.8796	-2.3695		
40	0.02	10.45	0.0837	-0.1752	0.7020	-7.0420	0.0010	0.8352	-2.0929		
41	0.01	11.25	0.0829	-0.2400	0.6275	-6.7648	-0.0070	0.7921	-2.8958		
42	0.01	12.05	0.0862	-0.2267	0.4740	-6.5449	-0.0090	0.7411	-2.6297		
43	0.01	12.80	0.0700	-0.1590	0.3219	-6.2548	-0.0040	0.6978	-2.2714		
44	0.01	13.58	0.0891	-0.1917	0.1406	-6.0001	-0.0140	0.6388	-2.1520		
45	0.01	14.35	0.0791	-0.1591	0.0204	-5.7238	-0.0130	0.6129	-2.1190		
46	0.02	15.10	0.0817	-0.1524	-0.1959	-5.5300	-0.0230	0.5822	-1.8651		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		78	1.01	1.7		0.0	BZNOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.01	15.89	0.1129	-0.2530	-0.3862	-5.2165	-0.0370	0.5424	-2.2415				
48	0.01	16.69	0.0969	-0.2406	-0.6107	-4.8742	-0.0380	0.4986	-2.4836				
49	0.02	17.52	0.0914	-0.1599	-0.6567	-4.7579	-0.0320	0.4877	-1.7501				
50	0.01	18.37	0.0425	-0.1155	-0.9623	-4.4251	-0.0180	0.4339	-2.7176				
51	0.01	19.14	0.0449	-0.1568	-1.2460	-4.0388	-0.0160	0.3742	-3.4935				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	78	1.01	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.0	-19.94	0.0221	-0.0029	0.7901	-0.1312	35.7495	0.0984	0.0092	0.0086	0.0935	0.0873
2	0.02	-19.57	0.0367	-0.0031	0.7943	-0.1010	25.8739	0.0856	0.0058	-0.0002	0.0678	-0.0021
3	0.0	-18.79	0.0221	-0.0010	0.7796	-0.0452	35.2744	0.0952	0.0096	0.0105	0.1008	0.1105
4	0.01	-17.97	0.0170	0.0009	0.7797	0.0529	45.8626	0.0749	0.0040	-0.0006	0.0534	-0.0086
5	0.01	-17.15	0.0231	0.0026	0.7847	0.1126	33.9646	0.0725	0.0035	-0.0016	0.0483	-0.0226
6	0.01	-16.31	0.0081	0.0051	0.7824	0.6296	96.5925	0.0757	0.0037	0.0021	0.0489	0.0281
7	0.01	-15.52	0.0050	0.0070	0.7755	1.4000	155.0932	0.0619	0.0014	-0.0089	0.0226	-0.1434
8	0.01	-14.69	-0.0087	0.0098	0.7645	-1.1264	-87.8737	0.0528	0.0005	-0.0161	0.0095	-0.3050
9	0.01	-13.90	-0.0107	0.0115	0.7581	-1.0748	-70.8537	0.0550	0.0008	-0.0140	0.0145	-0.2541
10	0.01	-13.03	-0.0269	0.0133	0.7507	-0.4944	-27.9084	0.0569	0.0017	-0.0107	0.0299	-0.1888
11	0.01	-12.28	-0.0335	0.0143	0.7466	-0.4269	-22.2877	0.0567	-0.0005	-0.0094	-0.0088	-0.1659
12	0.01	-11.49	-0.0450	0.0157	0.7410	-0.3489	-16.4668	0.0495	0.0	-0.0134	0.0	-0.2708
13	0.01	-10.76	-0.0475	0.0168	0.7360	-0.3537	-15.4942	0.0509	-0.0003	-0.0136	-0.0059	-0.2680
14	0.01	-10.01	-0.0482	0.0176	0.7355	-0.3651	-15.2601	0.0509	-0.0003	-0.0138	-0.0059	-0.2719
15	0.01	-9.23	-0.0464	0.0183	0.7357	-0.3944	-15.8564	0.0511	-0.0008	-0.0110	-0.0140	-0.1922
16	0.01	-8.43	-0.0380	0.0183	0.7432	-0.4816	-19.5589	0.0526	0.0	-0.0152	0.0	-0.2885
17	0.01	-7.68	-0.0310	0.0184	0.7518	-0.5935	-24.2506	0.0565	-0.0006	-0.0145	-0.0106	-0.2562
18	0.01	-6.90	-0.0302	0.0191	0.7489	-0.6325	-24.7992	0.0588	-0.0002	-0.0135	-0.0034	-0.2297
19	0.01	-6.08	-0.0171	0.0187	0.7586	-1.0936	-44.3627	0.0685	-0.0002	-0.0085	-0.0029	-0.1237
20	0.01	-5.32	-0.0073	0.0185	0.7636	-2.5342	-104.5983	0.0619	-0.0005	-0.0091	-0.0081	-0.1466
21	0.01	-4.56	-0.0109	0.0196	0.7563	-1.7982	-69.3824	0.0565	-0.0002	-0.0098	-0.0035	-0.1730
22	0.01	-3.79	-0.0047	0.0193	0.7569	-4.1064	-161.0498	0.0587	-0.0009	-0.0080	0.0153	-0.1370
23	0.01	-2.94	-0.0103	0.0200	0.7537	-1.9417	-73.1716	0.0523	0.0005	-0.0093	0.0096	-0.1773
24	0.01	-2.18	-0.0066	0.0209	0.7502	-3.1667	-113.6668	0.0490	-0.0003	-0.0124	-0.0061	-0.2525
25	0.01	-1.38	-0.0216	0.0221	0.7403	-1.0231	-34.2733	0.0572	0.0014	-0.0075	0.0245	-0.1318
26	0.01	-0.56	-0.0390	0.0236	0.7305	-0.6051	-18.7309	0.0585	0.0018	-0.0072	0.0308	-0.1232
27	0.01	0.20	-0.0555	0.0246	0.7203	-0.4432	-14.9785	0.0538	0.0007	-0.0097	0.0130	-0.1798
28	0.01	0.97	-0.0730	0.0259	0.7096	-0.3548	-9.7120	0.0570	0.0005	-0.0108	0.0088	-0.1896
29	0.01	1.74	-0.0982	0.0266	0.6914	-0.2709	-7.0405	0.0537	0.0013	-0.0082	0.0242	-0.1528
30	0.01	2.49	-0.1169	0.0262	0.6780	-0.2241	-5.8002	0.0554	0.0010	-0.0093	0.0181	-0.1686
31	0.01	3.27	-0.1365	0.0277	0.6634	-0.2029	-4.8602	0.0557	0.0011	-0.0104	0.0197	-0.1874
32	0.01	4.02	-0.1463	0.0280	0.6524	-0.1996	-4.6504	0.0542	0.0009	-0.0097	0.0166	-0.1797
33	0.01	4.85	-0.1607	0.0313	0.6363	-0.1948	-3.9593	0.0643	0.0023	-0.0078	0.0358	-0.1209
34	0.01	5.64	-0.1802	0.0365	0.6065	-0.2026	-3.3677	0.0579	0.0012	-0.0101	0.0207	-0.1746
35	0.01	6.46	-0.1989	0.0401	0.5756	-0.2016	-2.8940	0.0661	0.0026	-0.0071	0.0393	-0.1070
36	0.01	7.22	-0.2224	0.0824	0.6139	-0.3705	-2.7603	0.0671	0.0024	-0.0064	0.0358	-0.0960
37	0.01	8.01	-0.2456	0.0835	0.5835	-0.3400	-2.3757	0.0694	0.0029	-0.0060	0.0418	-0.0861
38	0.01	8.84	-0.2585	0.0812	0.5634	-0.3141	-2.1794	0.0671	0.0020	-0.0081	0.0298	-0.1213
39	0.01	9.64	-0.2784	0.0769	0.5449	-0.2762	-1.9574	0.0686	0.0024	-0.0083	0.0350	-0.1216
40	0.02	10.45	-0.2932	0.0712	0.5215	-0.2428	-1.7787	0.0714	0.0027	-0.0069	0.0378	-0.0968
41	0.01	11.25	-0.3214	0.0684	0.4973	-0.2128	-1.5473	0.0717	0.0029	-0.0069	0.0404	-0.0964
42	0.01	12.05	-0.3602	0.0671	0.4722	-0.1863	-1.3109	0.0730	0.0038	-0.0056	0.0521	-0.0764
43	0.01	12.80	-0.3908	0.0650	0.4450	-0.1663	-1.1386	0.0694	0.0032	-0.0069	0.0461	-0.0991
44	0.01	13.58	-0.4224	0.0628	0.4136	-0.1487	-0.9790	0.0799	0.0047	-0.0050	0.0588	-0.0623
45	0.01	14.35	-0.4569	0.0591	0.3890	-0.1293	-0.8513	0.0805	0.0040	-0.0061	0.0497	-0.0755
46	0.02	15.10	-0.4980	0.0541	0.3548	-0.1086	-0.7124	0.0779	0.0035	-0.0061	0.0449	-0.0789

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		78	1.01	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.01	15.89	-0.5346	0.0494	0.3264	-0.0924	-0.6105	0.0822	0.0052	-0.0016	0.0633	-0.0196		
48	0.01	16.69	-0.5730	0.0440	0.2918	-0.0768	-0.5092	0.0810	0.0049	-0.0031	0.0605	-0.0384		
49	0.02	17.52	-0.5974	0.0396	0.2622	-0.0663	-0.4390	0.0812	0.0045	-0.0047	0.0554	-0.0584		
50	0.01	18.37	-0.6398	0.0352	0.2307	-0.0550	-0.3606	0.0722	0.0036	-0.0069	0.0499	-0.0961		
51	0.01	19.14	-0.6802	0.0290	0.1990	-0.0426	-0.2926	0.0817	0.0059	-0.0023	0.0722	-0.0279		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	7.0	1.01 1.7	U.O	B2WOF16	0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	-19.94	1.7174	0.0350	0.6345	0.0204	0.3694	-0.1198	-0.0133	0.0115	0.1110	-0.0958
2	0.02	-19.57	1.7073	0.0352	0.6383	0.0206	0.3739	-0.1187	-0.0135	0.0075	0.1137	-0.0636
3	0.0	-18.79	1.6672	0.0371	0.6244	0.0220	0.3701	-0.1082	-0.0133	0.0082	0.1229	-0.0762
4	0.01	-17.97	1.6655	0.0386	0.6256	0.0232	0.3758	-0.1192	-0.0135	0.0095	0.1133	-0.0795
5	0.01	-17.15	1.6797	0.0407	0.6288	0.0242	0.3744	-0.1201	-0.0125	0.0121	0.1041	-0.1006
6	0.01	-16.31	1.6655	0.0426	0.6199	0.0256	0.3722	-0.1089	-0.0125	0.0108	0.1148	-0.0993
7	0.01	-15.52	1.6591	0.0449	0.6166	0.0271	0.3717	-0.1069	-0.0124	0.0109	0.1139	-0.1002
8	0.01	-14.69	1.6285	0.0472	0.6094	0.0290	0.3742	-0.1025	-0.0112	0.0132	0.1093	-0.1292
9	0.01	-13.90	1.6181	0.0493	0.6074	0.0305	0.3754	-0.0849	-0.0094	0.0138	0.1107	-0.1627
10	0.01	-13.03	1.5995	0.0508	0.5963	0.0318	0.3728	-0.1025	-0.0108	0.0132	0.1054	-0.1292
11	0.01	-12.28	1.5853	0.0526	0.5905	0.0332	0.3725	-0.1022	-0.0114	0.0126	0.1115	-0.1237
12	0.01	-11.49	1.5726	0.0536	0.5887	0.0341	0.3744	-0.0957	-0.0100	0.0144	0.1045	-0.1506
13	0.01	-10.76	1.5576	0.0544	0.5844	0.0349	0.3752	-0.0957	-0.0100	0.0144	0.1045	-0.1506
14	0.01	-10.01	1.5591	0.0556	0.5816	0.0357	0.3730	-0.0928	-0.0092	0.0166	0.0991	-0.1786
15	0.01	-9.23	1.5574	0.0557	0.5778	0.0358	0.3710	-0.0928	-0.0092	0.0166	0.0991	-0.1786
16	0.01	-8.43	1.5802	0.0554	0.5878	0.0351	0.3720	-0.0960	-0.0094	0.0151	0.0979	-0.1574
17	0.01	-7.68	1.5767	0.0559	0.5897	0.0355	0.3740	-0.0894	-0.0086	0.0174	0.0962	-0.1947
18	0.01	-6.90	1.5852	0.0566	0.5939	0.0357	0.3747	-0.0893	-0.0083	0.0174	0.0929	-0.1953
19	0.01	-6.08	1.5854	0.0573	0.5939	0.0361	0.3746	-0.0859	-0.0073	0.0177	0.0850	-0.2058
20	0.01	-5.32	1.5930	0.0575	0.5908	0.0361	0.3709	-0.0901	-0.0071	0.0201	0.0788	-0.2228
21	0.01	-4.56	1.5894	0.0577	0.5943	0.0363	0.3739	-0.0827	-0.0065	0.0191	0.0786	-0.2315
22	0.01	-3.79	1.6102	0.0579	0.6011	0.0360	0.3733	-0.0895	-0.0071	0.0181	0.0793	-0.2020
23	0.01	-2.94	1.5977	0.0580	0.5986	0.0363	0.3746	-0.0830	-0.0061	0.0198	0.0735	-0.2391
24	0.01	-2.18	1.6016	0.0580	0.5975	0.0362	0.3731	-0.0828	-0.0063	0.0192	0.0761	-0.2320
25	0.01	-1.38	1.5840	0.0591	0.5843	0.0373	0.3689	-0.0839	-0.0045	0.0224	0.0536	-0.2675
26	0.01	-0.56	1.5661	0.0601	0.5760	0.0384	0.3678	-0.0731	-0.0043	0.0218	0.0588	-0.2988
27	0.01	0.20	1.5444	0.0611	0.5671	0.0396	0.3672	-0.0722	-0.0053	0.0186	0.0734	-0.2582
28	0.01	0.97	1.5380	0.0610	0.5572	0.0397	0.3623	-0.0832	-0.0060	0.0193	0.0721	-0.2317
29	0.01	1.74	1.4992	0.0627	0.5459	0.0418	0.3641	-0.0806	-0.0046	0.0215	0.0571	-0.2673
30	0.01	2.49	1.4733	0.0614	0.5301	0.0417	0.3598	-0.0826	-0.0054	0.0193	0.0646	-0.2314
31	0.01	3.27	1.4479	0.0609	0.5194	0.0421	0.3587	-0.0898	-0.0040	0.0209	0.0573	-0.3000
32	0.01	4.02	1.4255	0.0609	0.5159	0.0427	0.3619	-0.0775	-0.0040	0.0231	0.0516	-0.2978
33	0.01	4.85	1.3982	0.0643	0.5055	0.0460	0.3615	-0.0696	-0.0040	0.0209	0.0575	-0.3004
34	0.01	5.64	1.3384	0.0668	0.4868	0.0499	0.3637	-0.0769	-0.0043	0.0229	0.0559	-0.2975
35	0.01	6.46	1.2786	0.0686	0.4639	0.0537	0.3629	-0.0696	-0.0034	0.0238	0.0489	-0.3421
36	0.01	7.22	1.2194	0.0756	0.4384	0.0620	0.3595	-0.0763	-0.0033	0.0227	0.0433	-0.2972
37	0.01	8.01	1.1702	0.0844	0.4193	0.0721	0.3583	-0.0856	-0.0032	0.0238	0.0488	-0.3634
38	0.01	8.84	1.2012	0.1133	0.4417	0.0943	0.3677	-0.0757	-0.0039	0.0226	0.0515	-0.2982
39	0.01	9.64	1.1890	0.1035	0.4292	0.0870	0.3610	-0.0791	-0.0031	0.0210	0.0392	-0.2660
40	0.02	10.45	1.1387	0.1011	0.4024	0.0888	0.3534	-0.0797	-0.0021	0.0212	0.0263	-0.2665
41	0.01	11.25	1.0981	0.1003	0.3873	0.0913	0.3527	-0.0713	-0.0039	0.0158	0.0547	-0.2222
42	0.01	12.05	1.0407	0.0987	0.3626	0.0948	0.3484	-0.0898	-0.0046	0.0175	0.0512	-0.1946
43	0.01	12.80	0.9888	0.0945	0.3326	0.0956	0.3363	-0.0963	-0.0062	0.0150	0.0644	-0.1559
44	0.01	13.58	0.9312	0.0920	0.3076	0.0988	0.3303	-0.1055	-0.0100	0.0103	0.0948	-0.0981
45	0.01	14.35	0.8584	0.0868	0.2876	0.1011	0.3351	-0.0966	-0.0066	0.0144	0.0643	-0.1492
46	0.02	15.10	0.8028	0.0810	0.2611	0.1009	0.3252	-0.1159	-0.0110	0.0072	0.0949	-0.0620

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION					
6	7.8	1.01	1.7	0.0	B2NOF16	0.0	30	0	30	0	FIXED				
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4			
47	0.01	15.89	0.7543	0.0758	0.2376	0.1005	0.3151	-0.1255	-0.0122	0.0038	0.0972	-0.0301			
48	0.01	16.69	0.6853	0.0680	0.2052	0.0592	0.2994	-0.1106	-0.0110	0.0020	0.0995	-0.0185			
49	0.02	17.52	0.6134	0.0613	0.1842	0.0999	0.3003	-0.1054	-0.0092	0.0098	0.0873	-0.0928			
50	0.01	18.37	0.5585	0.0543	0.1546	0.0972	0.2768	-0.1085	-0.0093	0.0082	0.0857	-0.0760			
51	0.01	19.14	0.4905	0.0461	0.1230	0.0940	0.2508	-0.1149	-0.0109	0.0070	0.0949	-0.0610			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	79	1.05	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-20.06	0.1517	-0.4643	4.4130	-9.4108	-0.0230	1.3183	-3.0612		
2	0.0	-19.59	0.1249	-0.5118	4.3166	-9.4131	-0.0170	1.3111	-3.9404		
3	0.0	-18.80	0.1418	-0.4935	4.2438	-9.4679	-0.0170	1.3075	-3.4804		
4	0.01	-17.44	0.1292	-0.3718	4.0064	-9.3724	-0.0110	1.2840	-2.8783		
5	0.01	-17.10	0.1001	-0.3181	3.9801	-9.4986	-0.0010	1.2737	-3.1782		
6	0.01	-16.28	0.1234	-0.3597	3.7687	-9.4726	-0.0040	1.2841	-2.9154		
7	0.0	-15.51	0.1103	-0.3824	3.5960	-9.4169	0.0070	1.2710	-3.4671		
8	0.01	-14.66	0.1556	-0.3798	3.5395	-9.4403	0.0180	1.2545	-2.4411		
9	0.01	-13.87	0.1246	-0.3194	3.4442	-9.3724	0.0140	1.2290	-2.5637		
10	0.01	-13.05	0.0851	-0.3011	3.2457	-9.3073	0.0210	1.2336	-3.5387		
11	0.01	-12.26	0.1106	-0.2728	3.1775	-9.2378	0.0170	1.2143	-2.4669		
12	0.01	-11.50	0.1091	-0.3237	3.0627	-9.1681	0.0230	1.1885	-2.9674		
13	0.01	-10.78	0.1204	-0.3105	2.9176	-9.1410	0.0240	1.1943	-2.5794		
14	0.01	-10.02	0.1102	-0.3092	2.8984	-9.1771	0.0230	1.1585	-2.8065		
15	0.01	-9.26	0.1098	-0.2977	2.7342	-9.0723	0.0240	1.1741	-2.7115		
16	0.01	-8.44	0.1070	-0.3258	2.7511	-9.2429	0.0320	1.1783	-3.0449		
17	0.01	-7.69	0.1114	-0.3509	2.7216	-9.2936	0.0350	1.1785	-3.1504		
18	0.01	-6.85	0.1167	-0.3723	2.5956	-9.3050	0.0340	1.1747	-3.1909		
19	0.01	-6.11	0.0953	-0.2994	2.5559	-9.5124	0.0280	1.2084	-3.1419		
20	0.01	-5.32	0.0920	-0.2858	2.4957	-9.5801	0.0310	1.2140	-3.1065		
21	0.01	-4.57	0.1165	-0.3561	2.4565	-9.6868	0.0320	1.2173	-3.0567		
22	0.01	-3.77	0.1087	-0.2991	2.4231	-9.7245	0.0240	1.2343	-2.7523		
23	0.01	-2.96	0.0784	-0.2637	2.3617	-9.7145	0.0250	1.2272	-3.3643		
24	0.01	-2.21	0.0889	-0.2964	2.2522	-9.6402	0.0280	1.1999	-3.3348		
25	0.01	-1.39	0.0854	-0.2645	2.3005	-9.6968	0.0220	1.1893	-3.0979		
26	0.01	-0.60	0.1010	-0.3014	2.1024	-9.3865	0.0220	1.1645	-2.9842		
27	0.01	0.16	0.0987	-0.2801	2.0021	-9.2581	0.0240	1.1473	-2.8387		
28	0.01	0.92	0.1012	-0.3006	1.9627	-9.1270	0.0240	1.1212	-2.9711		
29	0.01	1.71	0.1038	-0.3183	1.8918	-8.9376	0.0200	1.0984	-3.0667		
30	0.01	2.46	0.1008	-0.3321	1.7253	-8.6696	0.0180	1.0521	-3.2948		
31	0.01	3.23	0.1084	-0.3387	1.6209	-8.5064	0.0130	1.0234	-3.1251		
32	0.01	4.00	0.0951	-0.2821	1.5887	-8.2254	0.0150	0.9836	-2.9668		
33	0.01	4.83	0.1081	-0.3303	1.5024	-8.1156	0.0080	0.9448	-3.0559		
34	0.01	5.62	0.0951	-0.2621	1.3848	-7.7830	0.0100	0.9296	-2.7565		
35	0.01	6.45	0.0934	-0.2777	1.3377	-7.8890	0.0500	0.9633	-2.9739		
36	0.01	7.18	0.1074	-0.3063	1.2282	-8.0077	-0.0050	1.0149	-2.8525		
37	0.01	8.02	0.1164	-0.3226	1.0948	-7.8078	0.0050	1.0203	-2.7601		
38	0.01	8.81	0.0723	-0.2392	1.0323	-7.5754	0.0080	1.0145	-3.3087		
39	0.01	9.60	0.0712	-0.2097	0.8499	-7.2880	0.0040	0.9847	-2.9449		
40	0.01	10.43	0.0931	-0.2073	0.7196	-7.0477	0.0040	0.9480	-2.2271		
41	0.01	11.20	0.1080	-0.2552	0.5967	-6.7726	0.0030	0.9065	-2.3630		
42	0.01	12.01	0.0978	-0.2469	0.3988	-6.4516	-0.0050	0.8427	-2.5247		
43	0.01	12.77	0.0875	-0.1905	0.3409	-6.3014	-0.0020	0.7729	-2.1771		
44	0.01	13.53	0.0955	-0.2147	0.0568	-5.9577	-0.0070	0.7103	-2.2482		
45	0.01	14.32	0.1130	-0.3022	-0.0312	-5.6886	-0.0210	0.6611	-2.6743		
46	0.01	15.07	0.0867	-0.2653	-0.1860	-5.4429	-0.0270	0.6262	-3.0609		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CONF	L	DEL1	DEL2	DEL3	OEL4	TRANSITION	
6		79	1.05	1.7	0.0	B2MOP16	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.01	15.84	0.0736	-0.2470	-0.4218	-5.1707	-0.0240	0.6151	-3.3565			
48	0.01	16.65	0.0714	-0.1949	-0.6147	-4.8176	-0.0290	0.6138	-2.7305			
49	0.01	17.44	0.0463	-0.1058	-0.8346	-4.4848	-0.0070	0.5893	-2.2855			
50	0.02	18.30	0.0842	-0.1519	-1.1115	-4.1962	-0.0240	0.5453	-1.8038			
51	0.02	19.10	0.0475	-0.0485	-1.1957	-3.9742	-0.0090	0.5143	-1.0211			
52	0.01	19.93	-0.0138	0.0333	-1.4500	-3.8013	0.0040	0.4520	-2.4145			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	79	1.05	1.7	0.0	82WOF16	0.0	30	0	30	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	0.01	-20.06	0.0836	-0.0062	0.8317	-0.0742	9.9480	0.1022	0.0113	0.0098	0.1106	0.0954		
2	0.0	-19.59	0.0768	-0.0053	0.8275	-0.0690	10.7798	0.0994	0.0092	0.0052	0.0926	0.0525		
3	0.0	-18.80	0.0755	-0.0036	0.8270	-0.0477	10.9531	0.1016	0.0105	0.0058	0.1033	0.0566		
4	0.01	-17.94	0.0613	-0.0019	0.8176	-0.0310	13.3381	0.0893	0.0060	-0.0023	0.0672	-0.0262		
5	0.01	-17.10	0.0557	0.0001	0.8129	0.0018	14.5935	0.0753	0.0035	-0.0092	0.0465	-0.1223		
6	0.01	-16.28	0.0464	0.0019	0.8066	0.0409	17.3828	0.0800	0.0049	-0.0072	0.0612	-0.0905		
7	0.0	-15.51	0.0303	0.0043	0.7966	0.1419	26.2903	0.0686	0.0029	-0.0140	0.0423	-0.2047		
8	0.01	-14.66	0.0272	0.0060	0.7907	0.2206	29.0685	0.0584	0.0016	-0.0200	0.0274	-0.3432		
9	0.01	-13.87	0.0073	0.0083	0.7802	1.1370	106.8812	0.0602	0.0023	-0.0169	0.0382	-0.2814		
10	0.01	-13.05	0.0014	0.0096	0.7745	6.8571	553.1902	0.0544	0.0013	-0.0197	0.0239	-0.3616		
11	0.01	-12.26	-0.0027	0.0110	0.7639	-4.0741	-282.9260	0.0590	0.0007	-0.0169	0.0119	-0.2871		
12	0.01	-11.50	-0.0202	0.0129	0.7526	-0.6386	-37.2559	0.0537	0.0013	-0.0165	0.0242	-0.3074		
13	0.01	-10.78	-0.0293	0.0141	0.7518	-0.4812	-25.6600	0.0581	0.0007	-0.0178	0.0120	-0.3071		
14	0.01	-10.02	-0.0452	0.0152	0.7432	-0.3363	-16.4433	0.0568	0.0003	-0.0119	0.0053	-0.2090		
15	0.01	-9.26	-0.0456	0.0160	0.7414	-0.3509	-16.2589	0.0586	0.0	-0.0135	0.0	-0.2299		
16	0.01	-8.44	-0.0413	0.0168	0.7431	-0.4068	-17.9937	0.0627	-0.0003	-0.0137	-0.0048	-0.2186		
17	0.01	-7.69	-0.0452	0.0179	0.7400	-0.3960	-16.3725	0.0629	-0.0002	-0.0147	-0.0032	-0.2344		
18	0.01	-6.85	-0.0404	0.0179	0.7429	-0.4431	-18.3895	0.0646	0.0	-0.0107	0.0	-0.1652		
19	0.01	-6.11	-0.0274	0.0179	0.7524	-0.6533	-27.4588	0.0624	-0.0002	-0.0123	-0.0032	-0.1972		
20	0.01	-5.32	-0.0204	0.0185	0.7509	-0.9069	-36.8389	0.0532	-0.0012	-0.0177	-0.0226	-0.3322		
21	0.01	-4.57	-0.0077	0.0178	0.7580	-2.3117	-98.4460	0.0681	0.0003	-0.0087	0.0044	-0.1279		
22	0.01	-3.77	-0.0019	0.0179	0.7644	-9.4211	-402.2983	0.0569	-0.0002	-0.0116	-0.0035	-0.2046		
23	0.01	-2.96	-0.0134	0.0190	0.7601	-1.4179	-56.7265	0.0504	-0.0018	-0.0172	-0.0357	-0.3414		
24	0.01	-2.21	-0.0178	0.0192	0.7555	-1.0787	-42.4421	0.0523	-0.0009	-0.0143	-0.0172	-0.2729		
25	0.01	-1.39	-0.0168	0.0205	0.7445	-1.2202	-44.3156	0.0496	-0.0006	-0.0142	-0.0121	-0.2857		
26	0.01	-0.60	-0.0317	0.0213	0.7441	-0.6719	-23.1589	0.0566	0.0004	-0.0108	0.0071	-0.1915		
27	0.01	0.16	-0.0434	0.0212	0.7242	-0.4885	-16.6875	0.0512	-0.0012	-0.0149	-0.0234	-0.2918		
28	0.01	0.92	-0.0610	0.0197	0.7105	-0.3230	-11.6471	0.0614	0.0012	-0.0090	0.0195	-0.1472		
29	0.01	1.71	-0.0843	0.0207	0.6977	-0.2456	-8.2165	0.0638	0.0016	-0.0080	0.0251	-0.1260		
30	0.01	2.46	-0.1129	0.0240	0.6783	-0.2126	-6.0078	0.0702	0.0026	-0.0068	0.0370	-0.0970		
31	0.01	3.23	-0.1378	0.0254	0.6574	-0.1843	-4.7706	0.0617	0.0015	-0.0090	0.0243	-0.1465		
32	0.01	4.00	-0.1554	0.0267	0.6381	-0.1718	-4.1063	0.0644	0.0017	-0.0083	0.0264	-0.1295		
33	0.01	4.83	-0.1792	0.0306	0.6130	-0.1708	-3.4207	0.0711	0.0022	-0.0086	0.0309	-0.1211		
34	0.01	5.62	-0.1934	0.0354	0.5903	-0.1830	-3.0520	0.0610	0.0009	-0.0105	0.0148	-0.1717		
35	0.01	6.45	-0.2258	0.0377	0.6352	-0.3441	-2.8129	0.0689	0.0012	-0.0096	0.0174	-0.1399		
36	0.01	7.18	-0.2400	0.0755	0.6211	-0.3146	-2.5980	0.0823	0.0035	-0.0051	0.0425	-0.0617		
37	0.01	8.02	-0.2510	0.0656	0.6021	-0.2614	-2.5987	0.0821	0.0033	-0.0054	0.0402	-0.0663		
38	0.01	8.81	-0.2728	0.0617	0.5763	-0.2262	-2.1125	0.0715	0.0022	-0.0070	0.0308	-0.0976		
39	0.01	9.60	-0.2975	0.0597	0.5490	-0.2007	-1.8453	0.0681	0.0012	-0.0095	0.0176	-0.1396		
40	0.01	10.43	-0.3238	0.0576	0.5228	-0.1779	-1.6146	0.0658	0.0009	-0.0110	0.0137	-0.1668		
41	0.01	11.20	-0.3554	0.0551	0.4941	-0.1550	-1.3902	0.0697	0.0010	-0.0107	0.0143	-0.1532		
42	0.01	12.01	-0.3875	0.0532	0.4607	-0.1373	-1.1888	0.0770	0.0019	-0.0083	0.0247	-0.1083		
43	0.01	12.77	-0.4164	0.0526	0.4350	-0.1263	-1.0448	0.0735	0.0015	-0.0094	0.0204	-0.1280		
44	0.01	13.53	-0.4547	0.0495	0.4004	-0.1089	-0.8806	0.0826	0.0031	-0.0066	0.0371	-0.0795		
45	0.01	14.32	-0.4798	0.0470	0.3721	-0.0980	-0.7756	0.0871	0.0039	-0.0039	0.0448	-0.0445		
46	0.01	15.07	-0.5122	0.0419	0.3404	-0.0818	-0.6646	0.0885	0.0037	-0.0036	0.0418	-0.0408		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	79	1.05	1.7	0.0	02WOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.84	-0.5433	0.0349	0.3082	-0.0642	-0.5672	0.0951	0.0037	-0.0031	0.0389	-0.0327
48	0.01	16.65	-0.5856	0.0274	0.2720	-0.0468	-0.4644	0.0897	0.0029	-0.0028	0.0323	-0.0313
49	0.01	17.44	-0.6069	0.0237	0.2510	-0.0391	-0.4135	0.0813	0.0015	-0.0077	0.0185	-0.0948
50	0.02	18.30	-0.6503	0.0195	0.2180	-0.0300	-0.3352	0.0958	0.0037	-0.0033	0.0386	-0.0342
51	0.02	19.10	-0.6804	0.0163	0.1896	-0.0240	-0.2786	0.0776	0.0010	-0.0106	0.0129	-0.1371
52	0.01	19.93	-0.7177	0.0114	0.1629	-0.0159	-0.2269	0.0772	0.0016	-0.0096	0.0207	-0.1240

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RIX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		79	1.03	1.7	0.0	02W0F16	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-20.06	1.8142	0.0332	0.6754	0.0183	0.3723	-0.1249	-0.0150	0.0085	0.1201	-0.0679
2	0.0	-19.59	1.8119	0.0360	0.6691	0.0188	0.3693	-0.1162	-0.0128	0.0142	0.1102	-0.1220
3	0.0	-18.80	1.8018	0.0347	0.6710	0.0193	0.3724	-0.1188	-0.0137	0.0121	0.1153	-0.1020
4	0.01	-17.94	1.7735	0.0370	0.6584	0.0209	0.3712	-0.1188	-0.0135	0.0121	0.1136	-0.1020
5	0.01	-17.10	1.7723	0.0392	0.6547	0.0221	0.3694	-0.1158	-0.0129	0.0136	0.1114	-0.1176
6	0.01	-16.28	1.7576	0.0410	0.6513	0.0233	0.3705	-0.1152	-0.0135	0.0117	0.1172	-0.1017
7	0.0	-15.51	1.7353	0.0428	0.6414	0.0247	0.3696	-0.1020	-0.0116	0.0132	0.1137	-0.1295
8	0.01	-14.66	1.7254	0.0446	0.6348	0.0258	0.3679	-0.0957	-0.0108	0.0149	0.1129	-0.1558
9	0.01	-13.87	1.6877	0.0461	0.6239	0.0273	0.3697	-0.0990	-0.0116	0.0147	0.1172	-0.1486
10	0.01	-13.05	1.6705	0.0478	0.6187	0.0286	0.3704	-0.0957	-0.0110	0.0149	0.1149	-0.1558
11	0.01	-12.26	1.6430	0.0494	0.6073	0.0301	0.3696	-0.0991	-0.0110	0.0147	0.1110	-0.1481
12	0.01	-11.50	1.6149	0.0510	0.5948	0.0316	0.3683	-0.1003	-0.0100	0.0185	0.0997	-0.1842
13	0.01	-10.78	1.6024	0.0523	0.5891	0.0326	0.3677	-0.1038	-0.0102	0.0177	0.0983	-0.1706
14	0.01	-10.02	1.5782	0.0529	0.5820	0.0335	0.3688	-0.1007	-0.0097	0.0185	0.0963	-0.1842
15	0.01	-9.26	1.5646	0.0540	0.5783	0.0344	0.3684	-0.1041	-0.0101	0.0177	0.0970	-0.1701
16	0.01	-8.44	1.5738	0.0544	0.5767	0.0346	0.3664	-0.1011	-0.0097	0.0186	0.0959	-0.1841
17	0.01	-7.69	1.5722	0.0545	0.5730	0.0347	0.3644	-0.0949	-0.0083	0.0210	0.0875	-0.2211
18	0.01	-6.85	1.5673	0.0553	0.5767	0.0353	0.3680	-0.0912	-0.0081	0.0199	0.0888	-0.2183
19	0.01	-6.11	1.5914	0.0557	0.5894	0.0350	0.3704	-0.0948	-0.0081	0.0203	0.0854	-0.2143
20	0.01	-5.32	1.6140	0.0564	0.5913	0.0349	0.3664	-0.1011	-0.0093	0.0186	0.0920	-0.1841
21	0.01	-4.57	1.6101	0.0571	0.5915	0.0355	0.3674	-0.0920	-0.0070	0.0224	0.0761	-0.2440
22	0.01	-3.77	1.6280	0.0567	0.6076	0.0348	0.3732	-0.0906	-0.0083	0.0180	0.0916	-0.1988
23	0.01	-2.96	1.6264	0.0566	0.6038	0.0348	0.3713	-0.1117	-0.0097	0.0199	0.0868	-0.1780
24	0.01	-2.21	1.6152	0.0569	0.5994	0.0352	0.3711	-0.0843	-0.0070	0.0197	0.0830	-0.2338
25	0.01	-1.39	1.6035	0.0575	0.5962	0.0359	0.3718	-0.0842	-0.0071	0.0197	0.0843	-0.2345
26	0.01	-0.60	1.5702	0.0571	0.5836	0.0364	0.3717	-0.0957	-0.0062	0.0235	0.0648	-0.2457
27	0.01	0.16	1.5705	0.0578	0.5760	0.0368	0.3668	-0.0843	-0.0070	0.0197	0.0830	-0.2338
28	0.01	0.92	1.5458	0.0563	0.5617	0.0364	0.3634	-0.0691	-0.0050	0.0239	0.0561	-0.2684
29	0.01	1.71	1.5088	0.0563	0.5495	0.0373	0.3642	-0.0856	-0.0044	0.0236	0.0514	-0.2754
30	0.01	2.46	1.4781	0.0571	0.5336	0.0366	0.3606	-0.0864	-0.0043	0.0256	0.0498	-0.2964
31	0.01	3.23	1.4479	0.0584	0.5191	0.0403	0.3585	-0.0759	-0.0033	0.0249	0.0435	-0.3282
32	0.01	4.00	1.4113	0.0586	0.5015	0.0415	0.3593	-0.0868	-0.0043	0.0257	0.0495	-0.2958
33	0.01	4.83	1.3623	0.0615	0.4880	0.0451	0.3582	-0.0837	-0.0039	0.0272	0.0466	-0.3251
34	0.01	5.62	1.3164	0.0655	0.4683	0.0498	0.3558	-0.0823	-0.0052	0.0221	0.0632	-0.2682
35	0.01	6.45	1.2781	0.0724	0.4558	0.0566	0.3566	-0.0755	-0.0051	0.0225	0.0675	-0.2986
36	0.01	7.18	1.3585	0.1045	0.4951	0.0769	0.3644	-0.0765	-0.0043	0.0264	0.0562	-0.3452
37	0.01	8.02	1.3125	0.0998	0.4725	0.0760	0.3603	-0.0732	-0.0034	0.0278	0.0464	-0.3799
38	0.01	8.81	1.2459	0.0948	0.4487	0.0761	0.3601	-0.0823	-0.0031	0.0232	0.0377	-0.2816
39	0.01	9.60	1.2081	0.0914	0.4245	0.0757	0.3513	-0.0818	-0.0031	0.0218	0.0379	-0.2670
40	0.01	10.43	1.1540	0.0880	0.4011	0.0763	0.3476	-0.0845	-0.0040	0.0196	0.0473	-0.2325
41	0.01	11.20	1.0919	0.0843	0.3774	0.0772	0.3457	-0.0816	-0.0036	0.0218	0.0466	-0.2673
42	0.01	12.01	1.0358	0.0817	0.3502	0.0789	0.3381	-0.0844	-0.0050	0.0197	0.0592	-0.2331
43	0.01	12.77	0.9786	0.0801	0.3232	0.0819	0.3303	-0.0980	-0.0064	0.0182	0.0653	-0.1862
44	0.01	13.53	0.9232	0.0764	0.2945	0.0828	0.3190	-0.0912	-0.0070	0.0181	0.0768	-0.1986
45	0.01	14.32	0.8641	0.0741	0.2763	0.0858	0.3198	-0.1180	-0.0104	0.0144	0.0881	-0.1219
46	0.01	15.07	0.8000	0.0675	0.2496	0.0844	0.3120	-0.1010	-0.0082	0.0149	0.0812	-0.1480

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	79	1.05	1.7	0.0	82W0F16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
47	0.01	15.84	0.7342	0.0581	0.2249	0.0791	0.3064	-0.1002	-0.0092	0.0123	0.0918	-0.1229
48	0.01	16.65	0.6717	0.0485	0.1925	0.0722	0.2866	-0.1327	-0.0119	0.0043	0.0897	-0.0323
49	0.01	17.44	0.6080	0.0431	0.1719	0.0709	0.2827	-0.0939	-0.0101	0.0166	0.1076	-0.1769
50	0.02	16.30	0.5454	0.0385	0.1398	0.0706	0.2564	-0.1058	-0.0109	0.0105	0.1030	-0.0947
51	0.02	19.10	0.4928	0.0326	0.1144	0.0662	0.2322	-0.0963	-0.0108	0.0150	0.1121	-0.1559
52	0.01	19.93	0.4085	0.0269	0.0828	0.0659	0.2027	-0.1114	-0.0103	0.0198	0.0925	-0.1776

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	80	1.10	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
1	0.01	-19.89	0.1229	-0.3190	4.4989	-9.5830	-0.0220	1.3429	-2.5901		
2	0.01	-19.49	0.1032	-0.2454	4.5331	-9.5799	-0.0030	1.3266	-2.3787		
3	0.0	-18.71	0.1126	-0.3806	4.3710	-9.5870	-0.0230	1.3449	-3.3605		
4	0.0	-17.85	0.1478	-0.4689	4.1358	-9.5946	-0.0170	1.3315	-3.1727		
5	0.0	-17.03	0.1121	-0.3769	4.0051	-9.7056	-0.0130	1.3551	-3.3625		
6	0.01	-16.21	0.1179	-0.3230	3.9047	-9.6950	-0.0040	1.3225	-2.7401		
7	0.0	-15.43	0.1135	-0.3818	3.7507	-9.6994	0.0	1.3273	-3.3648		
8	0.01	-14.60	0.1281	-0.3593	3.6126	-9.7001	0.0070	1.3138	-2.8052		
9	0.01	-13.77	0.1227	-0.2947	3.5354	-9.7296	0.0210	1.3044	-2.4024		
10	0.0	-12.94	0.0616	-0.2542	3.3577	-9.7131	0.0110	1.3073	-4.2084		
11	0.01	-12.19	0.0770	-0.1948	3.2612	-9.5550	0.0220	1.2709	-2.5299		
12	0.01	-11.40	0.0846	-0.2374	3.1814	-9.6583	0.0320	1.2682	-2.8066		
13	0.01	-10.69	0.0843	-0.2260	3.0481	-9.6186	0.0380	1.2778	-2.6811		
14	0.01	-9.97	0.0760	-0.1844	2.9557	-9.6183	0.0290	1.2698	-2.4263		
15	0.01	-9.13	0.1118	-0.2475	2.9580	-9.6705	0.0350	1.2366	-2.2140		
16	0.01	-8.40	0.0912	-0.2346	2.8083	-9.7309	0.0370	1.2587	-2.5732		
17	0.01	-7.60	0.0682	-0.2314	2.7215	-9.7419	0.0380	1.2687	-3.3941		
18	0.01	-6.80	0.0336	-0.1100	2.7388	-9.8736	0.0290	1.2671	-3.2750		
19	0.01	-6.02	0.0942	-0.2628	2.6614	-9.9591	0.0340	1.2899	-2.7407		
20	0.01	-5.25	0.0778	-0.2229	2.5593	-9.9801	0.0290	1.2715	-2.8653		
21	0.01	-4.45	0.0445	-0.0943	2.6982	-9.9457	0.0240	1.2568	-2.1191		
22	0.01	-3.71	0.0668	-0.1745	2.4133	-9.7558	0.0260	1.2540	-2.6126		
23	0.01	-2.86	0.0479	-0.1500	2.3241	-9.6549	0.0250	1.2352	-3.1328		
24	0.01	-2.10	0.0725	-0.1955	2.3416	-9.6224	0.0230	1.2081	-2.6966		
25	0.01	-1.26	0.0729	-0.2030	2.2511	-9.4607	0.0270	1.1986	-2.7855		
26	0.01	-0.49	0.0627	-0.1818	2.1012	-9.3029	0.0260	1.1884	-2.8992		
27	0.01	0.27	0.0876	-0.2356	1.9272	-9.0463	0.0190	1.1678	-2.6900		
28	0.01	1.03	0.0853	-0.2274	1.8558	-8.8302	0.0190	1.1471	-2.6661		
29	0.01	1.81	0.0543	-0.1560	1.8903	-8.7806	0.0190	1.1451	-2.8733		
30	0.01	2.58	0.0905	-0.2457	1.7384	-8.5359	0.0080	1.1239	-2.7149		
31	0.01	3.35	0.0838	-0.2163	1.5957	-8.3182	0.0090	1.0962	-2.5814		
32	0.01	4.11	0.0177	-0.0758	1.5849	-8.0451	0.0170	1.0645	-4.2814		
33	0.01	4.92	0.0513	-0.1478	1.5556	-8.2480	0.0300	1.0670	-2.8815		
34	0.01	5.71	0.0689	-0.1664	1.3720	-8.0380	0.0110	1.0391	-2.4160		
35	0.01	6.54	0.0629	-0.1550	1.3498	-7.8910	0.0160	0.9995	-2.4652		
36	0.01	7.30	0.0620	-0.1748	1.1388	-7.6475	0.0140	0.9650	-2.8194		
37	0.01	8.12	0.0841	-0.1847	1.0130	-7.4214	0.0130	0.9416	-2.1967		
38	0.01	8.93	0.0752	-0.2263	0.9360	-7.2066	0.0060	0.9225	-3.0090		
39	0.01	9.70	0.0642	-0.1529	0.7961	-7.0128	0.0100	0.9095	-2.3813		
40	0.01	10.54	0.0273	-0.0612	0.6942	-6.7261	0.0130	0.9083	-2.2425		
41	0.02	11.31	0.0771	-0.1239	0.4132	-6.5098	0.0030	0.8891	-1.6075		
42	0.01	12.09	0.0492	-0.1129	0.2696	-6.2356	0.0040	0.8756	-2.2943		
43	0.02	12.85	0.0750	-0.0580	0.2001	-5.9934	0.0040	0.8244	-0.7733		
44	0.02	13.63	0.0785	-0.1069	0.0036	-5.6653	-0.0100	0.7866	-1.3618		
45	0.02	14.38	0.0627	-0.0748	-0.1471	-5.4184	-0.0110	0.7415	-1.1927		
46	0.02	15.16	0.0612	-0.0617	-0.4490	-4.9446	-0.0140	0.6689	-1.0078		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		80	1.10 1.7	0.0	82NUF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	15.95	0.0668	-0.0265	-0.5632	-4.7218	-0.0070	0.6258	-0.3970		
48	0.02	16.70	0.0386	-0.0130	-0.7852	-4.4760	-0.0160	0.5749	-0.3378		
49	0.02	17.57	0.0718	-0.0735	-0.8412	-4.3336	-0.0290	0.5489	-1.0240		
50	0.02	18.38	0.0377	0.0322	-1.1888	-4.0019	-0.0120	0.4816	0.8546		
51	0.01	19.13	0.0913	-0.2118	-1.5053	-3.6908	-0.0330	0.4085	-2.3200		
52	0.01	19.74	0.0122	-0.0201	-1.5950	-3.6872	-0.0050	0.3887	-1.6459		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	80	1.10	1.7	0.0	BZWOFL6	0.0	30	0	30	0	FIXED			
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	0.01	-19.89	0.0858	-0.0087	0.8564	-0.1014	9.9812	0.0681	0.0052	0.0073	0.0764	0.1071		
2	0.01	-19.49	0.0812	-0.0072	0.8524	-0.0887	10.4970	0.0685	0.0048	0.0056	0.0701	0.0821		
3	0.0	-18.71	0.0799	-0.0061	0.8492	-0.0763	10.6286	0.0843	0.0106	0.0127	0.1257	0.1505		
4	0.0	-17.85	0.0726	-0.0041	0.8415	-0.0565	11.5908	0.0737	0.0079	0.0044	0.1072	0.0591		
5	0.0	-17.03	0.0749	-0.0034	0.8464	-0.0454	11.2998	0.0643	0.0050	0.0013	0.0778	0.0206		
6	0.01	-16.21	0.0649	-0.0015	0.8357	-0.0231	12.8771	0.0540	0.0025	-0.0036	0.0463	-0.0668		
7	0.0	-15.43	0.0499	0.0006	0.8281	0.0120	16.5457	0.0560	0.0036	-0.0071	0.0643	-0.1275		
8	0.01	-14.60	0.0435	0.0023	0.8202	0.0529	18.8550	0.0447	0.0017	-0.0126	0.0380	-0.2820		
9	0.01	-13.77	0.0405	0.0034	0.8224	0.0840	20.3060	0.0422	0.0005	-0.0122	0.0118	-0.2900		
10	0.0	-12.94	0.0288	0.0054	0.8077	0.1875	28.0450	0.0367	0.0014	-0.0159	0.0381	-0.4325		
11	0.01	-12.19	0.0180	0.0073	0.7973	0.4056	44.2943	0.0359	-0.0007	-0.0172	-0.0195	-0.4802		
12	0.01	-11.40	0.0130	0.0084	0.7965	0.6462	61.2717	0.0298	-0.0008	-0.0178	-0.0268	-0.5963		
13	0.01	-10.69	0.0110	0.0095	0.8013	0.8636	72.8423	0.0290	-0.0016	-0.0191	-0.0552	-0.6599		
14	0.01	-9.97	0.0056	0.0106	0.7918	1.8929	141.3868	0.0287	-0.0012	-0.0181	-0.0418	-0.6319		
15	0.01	-9.13	-0.0008	0.0117	0.7518	-14.6250	-989.7917	0.0381	-0.0013	-0.0145	-0.0341	-0.3807		
16	0.01	-8.40	-0.0028	0.0124	0.7540	-4.4286	-283.5596	0.0383	-0.0011	-0.0154	-0.0287	-0.4031		
17	0.01	-7.60	0.0022	0.0128	0.7553	5.8182	361.5149	0.0359	-0.0011	-0.0160	-0.0306	-0.4467		
18	0.01	-6.80	-0.0020	0.0132	0.7916	-6.6000	-395.8167	0.0274	-0.0021	-0.0225	-0.0766	-0.8201		
19	0.01	-6.02	0.0070	0.0131	0.7982	1.8714	114.0332	0.0321	-0.0014	-0.0161	-0.0436	-0.5017		
20	0.01	-5.25	0.0008	0.0141	0.7923	17.6250	990.3333	0.0341	-0.0015	-0.0140	-0.0440	-0.4117		
21	0.01	-4.45	0.0008	0.0149	0.7852	18.6250	981.4583	0.0235	-0.0022	-0.0176	-0.0936	-0.7476		
22	0.01	-3.71	-0.0045	0.0153	0.7782	-3.4000	-172.9335	0.0348	-0.0011	-0.0127	-0.0316	-0.3651		
23	0.01	-2.86	-0.0142	0.0160	0.7700	-1.1268	-54.2231	0.0267	-0.0023	-0.0154	-0.0861	-0.5769		
24	0.01	-2.10	-0.0242	0.0154	0.7571	-0.6364	-31.2866	0.0365	0.0	-0.0098	0.0	-0.2695		
25	0.01	-1.26	-0.0299	0.0163	0.7482	-0.5452	-25.0246	0.0309	-0.0015	-0.0122	-0.0485	-0.3949		
26	0.01	-0.49	-0.0411	0.0167	0.7410	-0.4063	-18.0293	0.0320	-0.0013	-0.0116	-0.0406	-0.3637		
27	0.01	0.27	-0.0509	0.0174	0.7236	-0.3418	-14.2169	0.0397	0.0006	-0.0076	-0.0151	-0.1907		
28	0.01	1.03	-0.0659	0.0193	0.7062	-0.2929	-10.7169	0.0357	-0.0010	-0.0116	-0.0280	-0.3250		
29	0.01	1.81	-0.0784	0.0206	0.6955	-0.2628	-8.8709	0.0326	-0.0017	-0.0138	-0.0521	-0.4245		
30	0.01	2.58	-0.1034	0.0238	0.6886	-0.2302	-6.4666	0.0383	0.0010	-0.0072	0.0261	-0.1890		
31	0.01	3.35	-0.1172	0.0269	0.6492	-0.2255	-5.5397	0.0376	0.0	-0.0093	0.0	-0.2466		
32	0.01	4.11	-0.1458	0.0320	0.6339	-0.2195	-4.3479	0.0205	-0.0048	-0.0204	-0.2341	-0.9936		
33	0.01	4.92	-0.1453	0.0565	0.6067	-0.3889	-4.5883	0.0411	0.0001	-0.0078	-0.0024	-0.1899		
34	0.01	5.71	-0.1737	0.0593	0.6409	-0.3414	-3.6898	0.0376	-0.0004	-0.0086	-0.0106	-0.2280		
35	0.01	6.54	-0.2011	0.0606	0.6145	-0.3013	-3.0556	0.0411	-0.0006	-0.0120	-0.0146	-0.2921		
36	0.01	7.30	-0.2235	0.0606	0.5914	-0.2711	-2.6462	0.0428	0.0005	-0.0084	-0.0117	-0.1972		
37	0.01	8.12	-0.2475	0.0594	0.5696	-0.2400	-2.3015	0.0411	-0.0007	-0.0111	-0.0170	-0.2702		
38	0.01	8.93	-0.2697	0.0573	0.5435	-0.2125	-2.0153	0.0537	0.0023	-0.0057	0.0428	-0.1063		
39	0.01	9.70	-0.2933	0.0551	0.5198	-0.1879	-1.7721	0.0427	-0.0007	-0.0123	-0.0164	-0.2874		
40	0.01	10.54	-0.3261	0.0508	0.4884	-0.1558	-1.4917	0.0414	-0.0010	-0.0121	-0.0242	-0.2924		
41	0.02	11.31	-0.3463	0.0482	0.4630	-0.1392	-1.3370	0.0459	-0.0004	-0.0103	-0.0087	-0.2245		
42	0.01	12.09	-0.3709	0.0447	0.4324	-0.1205	-1.1658	0.0526	0.0010	-0.0077	0.0190	-0.1459		
43	0.02	12.85	-0.3982	0.0421	0.4025	-0.1057	-1.0108	0.0499	0.0004	-0.0077	0.0080	-0.1538		
44	0.02	13.63	-0.4263	0.0379	0.3676	-0.0889	-0.8622	0.0555	0.0018	-0.0061	0.0324	-0.1100		
45	0.02	14.38	-0.4596	0.0351	0.3358	-0.0764	-0.7305	0.0576	0.0016	-0.0048	0.0278	-0.0835		
46	0.02	15.16	-0.4849	0.0317	0.3013	-0.0654	-0.6214	0.0611	0.0017	-0.0043	0.0278	-0.0710		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION			
6		80	1.10	1.7	0.0	82h0F16	0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.02	15.95	-0.5138	0.0296	0.2728	-0.0576	-0.5309	0.0582	0.0012	-0.0072	0.0206	-0.1238		
48	0.02	16.70	-0.5480	0.0264	0.243C	-0.0482	-0.4444	0.0669	0.0028	-0.0006	0.0419	-0.0091		
49	0.02	17.57	-0.5684	0.0227	0.2146	-0.0386	-0.3648	0.0650	0.0013	-0.0025	0.0200	-0.0391		
50	0.02	18.38	-0.6334	0.0177	0.1868	-0.0279	-0.2950	0.0635	-0.0019	-0.0051	-0.0299	-0.0810		
51	0.01	19.13	-0.6782	0.0128	0.1589	-0.0189	-0.2343	0.0747	-0.0021	0.0020	-0.0281	0.0267		
52	0.01	19.74	-0.6981	0.0085	0.1503	-0.0122	-0.2153	0.0650	-0.0015	-0.0045	-0.0231	-0.0699		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		BU		1.10	1.7	0.0	B2M0P16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CU3	XCPF3	YCPF3	CNF4	CM	CD4	XCPF4	YCPF4	
1	0.01	-19.89	1.8405	0.0283	0.6469	0.0154	0.3748	-0.1059	-0.0155	0.0023	0.1464	-0.0218	
2	0.01	-19.49	1.8295	0.0295	0.6531	0.0161	0.3789	-0.0979	-0.0131	0.0091	0.1338	-0.0927	
3	0.0	-18.71	1.8431	0.0302	0.6989	0.0164	0.3792	-0.1003	-0.0143	0.0059	0.1426	-0.0586	
4	0.0	-17.85	1.8423	0.0321	0.6926	0.0174	0.3759	-0.0975	-0.0135	0.0073	0.1385	-0.0750	
5	0.0	-17.03	1.8243	0.0347	0.6842	0.0190	0.3750	-0.0972	-0.0137	0.0067	0.1409	-0.0690	
6	0.01	-16.21	1.7960	0.0362	0.6731	0.0202	0.3748	-0.1001	-0.0139	0.0058	0.1389	-0.0584	
7	0.0	-15.43	1.8005	0.0377	0.6743	0.0209	0.3745	-0.0879	-0.0123	0.0097	0.1399	-0.1105	
8	0.01	-14.60	1.7774	0.0390	0.6621	0.0219	0.3725	-0.0807	-0.0123	0.0077	0.1524	-0.0955	
9	0.01	-13.77	1.7514	0.0406	0.6564	0.0232	0.3748	-0.0915	-0.0117	0.0107	0.1279	-0.1171	
10	0.0	-12.94	1.7370	0.0417	0.6508	0.0240	0.3747	-0.0909	-0.0123	0.0089	0.1353	-0.0980	
11	0.01	-12.19	1.7035	0.0435	0.6359	0.0255	0.3733	-0.0910	-0.0123	0.0089	0.1352	-0.0976	
12	0.01	-11.40	1.6967	0.0443	0.6338	0.0261	0.3735	-0.0825	-0.0101	0.0127	0.1224	-0.1541	
13	0.01	-10.69	1.6755	0.0456	0.6314	0.0272	0.3768	-0.0756	-0.0105	0.0118	0.1389	-0.1562	
14	0.01	-9.97	1.6589	0.0474	0.6297	0.0286	0.3796	-0.0914	-0.0124	0.0089	0.1357	-0.0979	
15	0.01	-9.13	1.6377	0.0483	0.6212	0.0295	0.3793	-0.0796	-0.0094	0.0129	0.1181	-0.1618	
16	0.01	-8.40	1.6541	0.0491	0.6267	0.0297	0.3789	-0.0797	-0.0099	0.0129	0.1242	-0.1624	
17	0.01	-7.60	1.6539	0.0497	0.6273	0.0301	0.3793	-0.0821	-0.0116	0.0102	0.1413	-0.1246	
18	0.01	-6.80	1.6658	0.0500	0.6297	0.0300	0.3780	-0.0917	-0.0124	0.0089	0.1352	-0.0975	
19	0.01	-6.02	1.6695	0.0506	0.6355	0.0303	0.3809	-0.0770	-0.0086	0.0155	0.1117	-0.2019	
20	0.01	-5.25	1.6634	0.0510	0.6306	0.0307	0.3791	-0.0793	-0.0097	0.0129	0.1223	-0.1624	
21	0.01	-4.45	1.6632	0.0514	0.6288	0.0309	0.3781	-0.0954	-0.0112	0.0118	0.1174	-0.1238	
22	0.01	-3.71	1.6409	0.0513	0.6228	0.0313	0.3795	-0.0891	-0.0093	0.0134	0.1044	-0.1505	
23	0.01	-2.86	1.6249	0.0511	0.6181	0.0314	0.3804	-0.0851	-0.0095	0.0111	0.1116	-0.1309	
24	0.01	-2.10	1.5971	0.0506	0.6090	0.0317	0.3813	-0.0664	-0.0086	0.0149	0.0994	-0.2240	
25	0.01	-1.26	1.5827	0.0503	0.5984	0.0318	0.3781	-0.0767	-0.0067	0.0160	0.0874	-0.2092	
26	0.01	-0.49	1.5583	0.0508	0.5886	0.0326	0.3774	-0.0864	-0.0074	0.0154	0.0856	-0.1784	
27	0.01	0.27	1.5370	0.0510	0.5780	0.0332	0.3760	-0.0773	-0.0055	0.0178	0.0712	-0.2308	
28	0.01	1.03	1.5053	0.0525	0.5643	0.0349	0.3749	-0.0773	-0.0055	0.0178	0.0712	-0.2308	
29	0.01	1.81	1.4932	0.0538	0.5565	0.0360	0.3727	-0.0835	-0.0061	0.0163	0.0731	-0.1949	
30	0.01	2.58	1.4633	0.0550	0.5389	0.0376	0.3683	-0.0749	-0.0039	0.0205	0.0521	-0.2743	
31	0.01	3.35	1.4165	0.0575	0.5239	0.0406	0.3699	-0.0673	-0.0048	0.0174	0.0713	-0.2582	
32	0.01	4.11	1.3699	0.0624	0.5028	0.0456	0.3670	-0.0953	-0.0078	0.0116	0.0818	-0.1222	
33	0.01	4.92	1.4290	0.0904	0.5232	0.0633	0.3661	-0.0834	-0.0067	0.0162	0.0803	-0.1944	
34	0.01	5.71	1.3743	0.0912	0.5066	0.0664	0.3687	-0.0735	-0.0065	0.0157	0.0884	-0.2137	
35	0.01	6.54	1.3232	0.0920	0.4845	0.0695	0.3662	-0.0717	-0.0050	0.0197	0.0697	-0.2749	
36	0.01	7.30	1.2054	0.0908	0.4639	0.0718	0.3666	-0.0746	-0.0050	0.0176	0.0670	-0.2365	
37	0.01	8.12	1.2158	0.0889	0.4440	0.0731	0.3652	-0.0676	-0.0039	0.0151	0.0577	-0.2230	
38	0.01	8.93	1.1756	0.0866	0.4270	0.0737	0.3632	-0.0650	-0.0024	0.0171	0.0369	-0.2637	
39	0.01	9.70	1.1124	0.0820	0.4025	0.0737	0.3618	-0.0665	-0.0048	0.0113	0.0722	-0.1705	
40	0.01	10.54	1.0592	0.0774	0.3774	0.0731	0.3563	-0.0676	-0.0037	0.0151	0.0547	-0.2230	
41	0.02	11.31	1.0129	0.0740	0.3560	0.0731	0.3515	-0.0765	-0.0058	0.0125	0.0758	-0.1635	
42	0.01	12.09	0.9548	0.0703	0.3322	0.0736	0.3479	-0.0659	-0.0048	0.0112	0.0728	-0.1706	
43	0.02	12.85	0.8862	0.0666	0.3047	0.0752	0.3438	-0.0699	-0.0050	0.0147	0.0715	-0.2104	
44	0.02	13.63	0.8184	0.0618	0.2792	0.0755	0.3412	-0.0907	-0.0093	0.0088	0.1025	-0.0968	
45	0.02	14.38	0.7454	0.0573	0.2534	0.0769	0.3399	-0.0966	-0.0093	0.0072	0.0963	-0.0747	
46	0.02	15.16	0.6948	0.0529	0.2237	0.0761	0.3220	-0.0965	-0.0122	0.0089	0.1264	-0.0927	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	80	1.10	1.7	0.0	B2MUF16	0.0	30	0	3U	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.95	0.6190	0.0476	0.1962	0.0769	0.3169	-0.0867	-0.0130	0.0084	0.1499	-0.0970
48	0.02	16.70	0.5717	0.0420	0.1711	0.0735	0.2993	-0.1074	-0.0154	-0.0010	0.1434	0.0092
49	0.02	17.57	0.5229	0.0376	0.1555	0.0719	0.2975	-0.1067	-0.0175	-0.0034	0.1640	0.0314
50	0.02	18.38	0.4612	0.0320	0.1288	0.0694	0.2792	-0.0993	-0.0143	0.0039	0.1440	-0.0394
51	0.01	19.13	0.4168	0.0259	0.1032	0.0621	0.2476	-0.1077	-0.0132	-0.0034	0.1226	0.0315
52	0.01	19.74	0.3760	0.0221	0.0855	0.0588	0.2274	-0.0940	-0.0107	0.0056	0.1138	-0.0393

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	0.85	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	-19.92	0.0970	-0.2278	3.5831	-7.1791	-0.0100	0.5906	-2.3485	
2	0.01	-19.91	0.1280	-0.3432	3.5522	-6.9559	-0.0020	0.5919	-2.6812	
3	0.01	-19.55	0.1348	-0.3927	3.4983	-7.1404	0.0030	0.5916	-2.9134	
4	0.01	-18.71	0.1235	-0.3099	3.4166	-7.0969	0.0010	0.5822	-2.5093	
5	0.01	-17.87	0.0994	-0.2931	3.2748	-6.9674	0.0100	0.5860	-2.9493	
6	0.01	-17.03	0.0929	-0.3030	3.1445	-6.9509	0.0170	0.5792	-3.2622	
7	0.01	-16.20	0.1028	-0.2369	3.0566	-6.8867	0.0260	0.5647	-2.3047	
8	0.01	-15.40	0.0856	-0.2608	2.9250	-6.7587	0.0200	0.5671	-3.0472	
9	0.01	-14.56	0.0459	-0.1102	2.8218	-6.6642	0.0210	0.5617	-2.4022	
10	0.01	-13.73	0.0584	-0.1647	2.7074	-6.4751	0.0220	0.5390	-2.8212	
11	0.01	-12.88	0.0435	-0.1669	2.5623	-6.3748	0.0170	0.5454	-3.8368	
12	0.01	-12.12	0.0399	-0.1598	2.4344	-6.2478	0.0190	0.5425	-4.0065	
13	0.01	-11.32	0.0347	-0.1616	2.3616	-6.1550	0.0170	0.5407	-4.6565	
14	0.01	-10.61	0.0321	-0.1349	2.2166	-6.0689	0.0110	0.5244	-4.2037	
15	0.01	-9.85	0.0467	-0.1854	2.1292	-5.8905	0.0100	0.5182	-3.9696	
16	0.01	-9.03	0.0459	-0.2022	2.0314	-5.8086	0.0090	0.5111	-4.4065	
17	0.01	-8.28	0.0424	-0.1923	1.9357	-5.6897	0.0130	0.5044	-4.5368	
18	0.01	-7.46	0.0399	-0.1728	1.8037	-5.5397	0.0040	0.4982	-4.3323	
19	0.01	-6.67	0.0384	-0.1187	1.7459	-5.4948	0.0050	0.5029	-3.0927	
20	0.01	-5.86	0.0517	-0.2254	1.6219	-5.3052	0.0050	0.4803	-4.3594	
21	0.01	-5.09	0.0413	-0.1708	1.5415	-5.1857	0.0060	0.4725	-4.1361	
22	0.01	-4.32	0.0649	-0.2518	1.4211	-5.0402	0.0090	0.4581	-3.8807	
23	0.0	-3.54	0.1077	-0.4587	1.4602	-5.3099	0.0340	0.4489	-4.2598	
24	0.0	-2.70	0.1007	-0.4439	1.4894	-5.7997	0.0440	0.4529	-4.4089	
25	0.0	-1.95	0.0757	-0.3419	1.5128	-6.0514	0.0290	0.4569	-4.5176	
26	0.0	-1.12	0.0740	-0.3286	1.5047	-6.1581	0.0210	0.4516	-4.4405	
27	0.01	-0.34	0.0500	-0.2450	1.4551	-6.1266	0.0160	0.4387	-4.9800	
28	0.01	0.44	0.0692	-0.2618	1.3521	-6.0584	0.0110	0.4274	-3.7844	
29	0.01	1.18	0.0608	-0.2751	1.2901	-5.9886	0.0210	0.4153	-4.5250	
30	0.0	1.95	0.0494	-0.2621	1.2457	-5.8605	0.0150	0.3997	-5.3069	
31	0.01	2.74	0.0676	-0.2936	1.1967	-5.8465	0.0150	0.3938	-4.3438	
32	0.01	3.51	0.0717	-0.3003	1.1238	-5.6657	0.0110	0.3782	-4.1894	
33	0.0	4.25	0.0602	-0.2872	0.9679	-5.4865	0.0100	0.3623	-4.1721	
34	0.0	5.04	0.0749	-0.3278	0.8802	-5.2487	0.0100	0.3420	-4.3773	
35	0.01	5.88	0.0772	-0.3210	0.8299	-5.1863	0.0260	0.3356	-4.1591	
36	0.01	6.65	0.0498	-0.2217	0.7602	-5.3587	-0.0010	0.3254	-4.4522	
37	0.01	7.48	0.0328	-0.2139	0.6717	-5.1778	-0.0020	0.3203	-6.5219	
38	0.01	8.25	0.0425	-0.2195	0.5374	-5.0058	0.0020	0.3181	-5.1647	
39	0.01	9.10	0.0448	-0.2317	0.4182	-4.6330	0.0	0.3045	-5.1723	
40	0.01	9.86	0.0509	-0.2512	0.2526	-4.2361	-0.0050	0.2900	-4.9363	
41	0.01	10.67	0.0337	-0.1722	0.1306	-3.8183	-0.0070	0.2778	-5.1092	
42	0.01	11.50	0.0164	-0.1079	-0.0877	-3.4258	-0.0040	0.2518	-6.5829	
43	0.01	12.25	0.0535	-0.1709	-0.2913	-2.8918	-0.0210	0.2150	-3.1944	
44	0.01	13.07	0.0277	-0.0888	-0.4744	-2.4154	-0.0180	0.1849	-3.2051	
45	0.01	13.82	0.0402	-0.0853	-0.6185	-2.0017	-0.0230	0.1504	-2.1214	
46	0.01	14.62	0.0384	-0.0668	-0.8210	-1.6232	-0.0240	0.1078	-1.7385	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 81 0.85 1.7 0.0 82NOF16 0.0 20 0 29 0 FIXED									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.37	0.0415	-0.0851	-0.9832	-1.3682	-0.0420	0.0799	-2.0506
48	0.01	16.16	0.0367	-0.0764	-1.0906	-1.0219	-0.0430	0.0352	-2.0812
49	0.02	16.98	0.0384	-0.0128	-1.3145	-0.7953	-0.0420	0.0021	-0.3323
50	0.01	17.78	0.0428	-0.0859	-1.4993	-0.4856	-0.0530	-0.0347	-2.0075
51	0.01	18.44	0.0494	-0.1821	-1.6259	-0.2394	-0.0540	-0.0585	-3.6874
52	0.01	19.46	0.0033	0.0004	-1.8947	0.2488	-0.0310	-0.0963	0.1152
53	0.01	20.16	-0.0169	0.0367	-2.0468	0.5729	-0.0260	-0.1134	-2.1692

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFF	L	OEL1	OEL2	OEL3	DEL4	TRANSITION		
6	81	0.85	1.7	0.082	NOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNFF	CHI	GBI	XCPFF1	YCPFF1	CNF2	CH2	C02	XCPF2	YCPF2
1	0.01	-19.92	0.9395	0.0334	0.5143	0.0356	0.5474	0.0081	0.0057	-0.0073	0.7037	-0.9014
2	0.01	-19.91	0.9360	0.0332	0.5163	0.0355	0.5516	0.0065	0.0045	-0.0075	0.6923	-1.1591
3	0.01	-19.55	0.9168	0.0341	0.5145	0.0364	0.5492	0.0024	0.0036	-0.0180	1.5000	-7.5001
4	0.01	-18.71	0.9281	0.0354	0.5092	0.0381	0.5486	0.0043	0.0038	-0.0119	0.8837	-2.7598
5	0.01	-17.87	0.9205	0.0367	0.5043	0.0399	0.5479	-0.0077	0.0016	-0.0171	-0.2078	2.2163
6	0.01	-17.03	0.9115	0.0383	0.4975	0.0420	0.5458	-0.0091	0.0007	-0.0178	-0.0769	1.9596
7	0.01	-16.20	0.8993	0.0398	0.4876	0.0443	0.5422	-0.0267	-0.0035	-0.0270	0.1311	1.0111
8	0.01	-15.40	0.8924	0.0415	0.4821	0.0465	0.5402	-0.0189	0.0006	-0.0188	-0.0317	0.9946
9	0.01	-14.56	0.8715	0.0433	0.4707	0.0497	0.5401	-0.0343	-0.0031	-0.0233	0.0904	0.6802
10	0.01	-13.73	0.8617	0.0449	0.4581	0.0521	0.5317	-0.0206	-0.0021	-0.0176	0.1019	0.8526
11	0.01	-12.88	0.8512	0.0469	0.4447	0.0551	0.5225	-0.0223	-0.0005	-0.0181	0.0224	0.8130
12	0.01	-12.12	0.8405	0.0477	0.4355	0.0568	0.5181	-0.0138	0.0003	-0.0119	0.0217	0.8622
13	0.01	-11.32	0.8185	0.0489	0.4250	0.0597	0.5193	-0.0159	-0.0007	-0.0099	0.0440	0.6225
14	0.01	-10.61	0.7969	0.0501	0.4115	0.0629	0.5169	-0.0081	0.0	-0.0078	0.0	0.9628
15	0.01	-9.85	0.7875	0.0508	0.4017	0.0645	0.5101	-0.0072	0.0002	-0.0048	-0.0278	0.6665
16	0.01	-9.03	0.7797	0.0515	0.3914	0.0661	0.5020	-0.0025	0.0007	-0.0035	-0.2800	1.4132
17	0.01	-8.28	0.7575	0.0523	0.3798	0.0690	0.5014	-0.0084	-0.0004	-0.0063	0.0476	0.7499
18	0.01	-7.46	0.7465	0.0527	0.3675	0.0706	0.4924	0.0034	0.0009	-0.0006	0.2647	-0.1668
19	0.01	-6.67	0.7337	0.0532	0.3608	0.0725	0.4917	-0.0009	0.0014	-0.0036	-1.5556	3.9999
20	0.01	-5.86	0.7133	0.0533	0.3464	0.0747	0.4856	0.0070	0.0013	-0.0019	0.1857	-0.2608
21	0.01	-5.09	0.6857	0.0533	0.3377	0.0777	0.4925	0.0020	0.0009	-0.0016	0.4500	-0.8168
22	0.01	-4.32	0.6807	0.0530	0.3251	0.0779	0.4776	0.0002	0.0013	-0.0013	6.5000	-6.6668
23	0.0	-3.54	0.7183	0.0515	0.3501	0.0717	0.4875	0.0237	0.0046	0.0123	0.1941	0.5189
24	0.0	-2.70	0.7532	0.0512	0.3777	0.0680	0.5014	0.0185	0.0034	0.0060	0.1838	0.3224
25	0.0	-1.95	0.7544	0.0500	0.3835	0.0663	0.5083	0.0122	0.0040	0.0038	0.3279	0.3086
26	0.0	-1.12	0.7582	0.0495	0.3814	0.0653	0.5031	-0.0001	0.0015	0.0001	-15.0000	-0.6668
27	0.01	-0.34	0.7402	0.0493	0.3787	0.0666	0.5117	-0.0002	0.0019	0.0002	-9.5000	-1.1668
28	0.01	0.44	0.7270	0.0497	0.3707	0.0684	0.5100	-0.0021	0.0031	0.0008	-1.4762	-0.3811
29	0.01	1.18	0.7166	0.0501	0.3660	0.0699	0.5107	-0.0056	0.0028	0.0017	-0.5000	-0.3096
30	0.0	1.95	0.6991	0.0507	0.3559	0.0725	0.5090	-0.0076	0.0035	0.0027	-0.4605	-0.3510
31	0.01	2.74	0.6772	0.0571	0.3504	0.0843	0.5174	0.0006	0.0043	0.0033	7.1667	5.4999
32	0.01	3.51	0.6601	0.0585	0.3378	0.0886	0.5117	-0.0025	0.0033	0.0024	-1.3200	-0.9468
33	0.0	4.25	0.6278	0.0646	0.3234	0.1029	0.5151	-0.0075	0.0027	0.0026	-0.4600	-0.3468
34	0.0	5.04	0.5927	0.0666	0.3030	0.1124	0.5112	0.0019	0.0045	0.0050	2.3684	2.6490
35	0.01	5.88	0.5621	0.0563	0.3514	0.1555	0.9703	0.0112	0.0044	0.0090	0.3929	0.8064
36	0.01	6.65	0.2781	0.1193	0.3228	0.4290	1.1606	-0.0059	0.0042	0.0019	-0.7119	-0.3278
37	0.01	7.48	0.2482	0.1127	0.3007	0.4541	1.2115	-0.0044	0.0050	0.0027	-1.1364	-0.6213
38	0.01	8.25	0.2176	0.1058	0.2812	0.4862	1.2923	-0.0063	0.0046	0.0038	-0.7302	-0.6033
39	0.01	9.10	0.1700	0.0951	0.2525	0.5594	1.4856	-0.0019	0.0053	0.0064	-2.7895	-3.3510
40	0.01	9.86	0.1188	0.0856	0.2229	0.7205	1.8761	0.0035	0.0052	0.0049	1.4857	1.3904
41	0.01	10.67	0.0627	0.0746	0.1914	1.1898	3.0525	0.0003	0.0047	0.0045	15.6667	14.9999
42	0.01	11.50	0.0058	0.0639	0.1619	11.0172	27.9194	0.0006	0.0042	0.0032	7.0000	5.3332
43	0.01	12.25	-0.0672	0.0491	0.1261	-0.7307	-1.8766	0.0027	0.0063	0.0076	2.3333	2.8147
44	0.01	13.07	-0.1260	0.0355	0.0989	-0.2817	-0.7850	0.0026	0.0034	0.0018	1.3077	0.6794
45	0.01	13.82	-0.1842	0.0211	0.0723	-0.1145	-0.3926	0.0086	0.0042	0.0038	0.4884	0.4379
46	0.01	14.62	-0.2514	0.0044	0.0458	-0.0175	-0.1823	0.0142	0.0058	0.0076	0.4085	0.5374

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		81		0.85		1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.01	15.37	-0.3146	-0.0094	0.0283	0.0299	-0.0899	0.0159	0.0058	0.0075	0.3648	0.4716		
48	0.01	16.16	-0.3751	-0.0237	0.0112	0.0632	-0.0299	0.0204	0.0068	0.0101	0.3333	0.4950		
49	0.02	16.98	-0.4299	-0.0401	-0.0696	0.0933	0.0224	0.0150	0.0051	0.0063	0.3400	0.4199		
50	0.01	17.78	-0.4877	-0.0562	-0.0266	0.1152	0.0546	0.0244	0.0068	0.0111	0.3036	0.4939		
51	0.01	18.64	-0.5404	-0.0688	-0.0439	0.1273	0.0812	0.0324	0.0075	0.0131	0.2315	0.4042		
52	0.01	19.46	-0.6071	-0.0809	-0.0691	0.1333	0.1138	0.0245	0.0060	0.0109	0.2449	0.4434		
53	0.01	20.16	-0.6631	-0.0897	-0.0897	0.1353	0.1352	0.0216	0.0053	0.0087	0.2454	0.4027		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		B1		0.85		1.7	0.0	8Z	WOF	16	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4				
1	0.01	-19.92	1.1854	0.3675	0.4663	0.0569	0.3934	-0.0420	-0.0074	-0.0053	0.1762	0.1261				
2	0.01	-19.91	1.1760	0.0678	0.4641	0.0577	0.3946	-0.0381	-0.0066	-0.0034	0.1732	0.0891				
3	0.01	-19.55	1.1793	0.0674	0.4613	0.0572	0.3911	-0.0420	-0.0074	-0.0053	0.1762	0.1261				
4	0.01	-18.71	1.1635	0.0687	0.4578	0.0590	0.3935	-0.0382	-0.0066	-0.0033	0.1728	0.0871				
5	0.01	-17.87	1.1557	0.0700	0.4500	0.0606	0.3894	-0.0384	-0.0063	-0.0026	0.1641	0.0676				
6	0.01	-17.03	1.1349	0.0715	0.4458	0.0630	0.3928	-0.0429	-0.0068	-0.0020	0.1585	0.0465				
7	0.01	-16.20	1.1317	0.0728	0.4354	0.0643	0.3947	-0.0420	-0.0074	-0.0053	0.1762	0.1261				
8	0.01	-15.40	1.0919	0.0745	0.4288	0.0682	0.3927	-0.0343	-0.0058	-0.0014	0.1691	0.0417				
9	0.01	-14.56	1.0685	0.0767	0.4226	0.0718	0.3955	-0.0343	-0.0066	-0.0026	0.1723	0.0669				
10	0.01	-13.73	1.0579	0.0782	0.4067	0.0739	0.3844	-0.0430	-0.0066	-0.0012	0.1535	0.0286				
11	0.01	-12.88	1.0315	0.0792	0.3986	0.0768	0.3864	-0.0430	-0.0063	-0.0012	0.1465	0.0286				
12	0.01	-12.12	1.0094	0.0798	0.3889	0.0791	0.3853	-0.0341	-0.0060	-0.0015	0.1760	0.0429				
13	0.01	-11.32	0.9925	0.0811	0.3811	0.0817	0.3840	-0.0260	-0.0047	0.0007	0.1808	-0.0283				
14	0.01	-10.61	0.9634	0.0816	0.3722	0.0847	0.3864	-0.0216	-0.0038	0.0002	0.1759	-0.0094				
15	0.01	-9.85	0.9428	0.0821	0.3632	0.0871	0.3852	-0.0349	-0.0048	0.0010	0.1375	-0.0278				
16	0.01	-9.03	0.9252	0.0819	0.3562	0.0885	0.3850	-0.0222	-0.0037	0.0026	0.1667	-0.1172				
17	0.01	-8.28	0.8943	0.0823	0.3426	0.0920	0.3831	-0.0092	-0.0022	0.0026	0.2391	-0.2864				
18	0.01	-7.46	0.8807	0.0822	0.3361	0.0933	0.3816	-0.0094	-0.0012	0.0027	0.1277	-0.2838				
19	0.01	-6.67	0.8838	0.0822	0.3311	0.0930	0.3746	-0.0226	-0.0023	0.0034	0.1018	-0.1491				
20	0.01	-5.86	0.8409	0.0818	0.3165	0.0973	0.3764	-0.0103	-0.0003	0.0059	0.0291	-0.5697				
21	0.01	-5.09	0.8224	0.0816	0.3041	0.0992	0.3698	-0.0228	-0.0015	0.0035	0.0658	-0.1536				
22	0.01	-4.32	0.8051	0.0805	0.2964	0.1000	0.3681	-0.0103	-0.0001	0.0059	0.0097	-0.5697				
23	0.0	-3.54	0.7842	0.0790	0.2873	0.1007	0.3664	-0.0070	0.0014	0.0095	-0.2000	-1.3525				
24	0.0	-2.70	0.8442	0.0786	0.3099	0.0931	0.3671	-0.0071	0.0011	0.0102	-0.1549	-1.4414				
25	0.0	-1.95	0.8852	0.0790	0.3278	0.0892	0.3703	-0.0072	0.0013	0.0102	-0.1806	-1.4168				
26	0.0	-1.12	0.8878	0.0783	0.3368	0.0882	0.3794	-0.0024	0.0014	0.0089	-0.5833	-3.7085				
27	0.01	-0.34	0.8866	0.0782	0.3294	0.0882	0.3716	-0.0102	-0.0003	0.0058	0.0294	-0.5687				
28	0.01	0.44	0.8721	0.0784	0.3135	0.0899	0.3324	0.0027	0.0006	0.0067	0.2222	2.4814				
29	0.01	1.18	0.8568	0.0787	0.3222	0.0919	0.3760	0.0109	0.0023	0.0061	0.2110	0.7461				
30	0.0	1.95	0.8360	0.0802	0.3140	0.0959	0.3756	-0.0061	-0.0001	0.0070	0.0164	-1.1422				
31	0.01	2.74	0.8148	0.0839	0.3074	0.1030	0.3773	0.0056	0.0033	0.0111	0.5893	1.9761				
32	0.01	3.51	0.7869	0.0872	0.3006	0.1108	0.3820	0.0011	0.0036	0.0116	2.7273	10.5150				
33	0.0	4.25	0.7567	0.0928	0.2878	0.1226	0.3804	-0.0080	0.0023	0.0127	-0.2375	-1.5918				
34	0.0	5.04	0.7049	0.0937	0.2692	0.1329	0.3819	0.0048	0.0037	0.0144	0.7708	2.9999				
35	0.01	5.88	0.6804	0.0925	0.2544	0.1359	0.3739	-0.0033	0.0031	0.0114	-0.9394	-3.4547				
36	0.01	6.65	0.7340	0.1509	0.2123	0.2056	0.3710	0.0009	0.0031	0.0125	3.4444	13.8888				
37	0.01	7.48	0.6893	0.1431	0.2553	0.2076	0.3704	0.0139	0.0032	0.0142	0.2302	1.0239				
38	0.01	8.25	0.6356	0.1338	0.2316	0.2105	0.3644	0.0051	0.0023	0.0144	0.4510	2.8234				
39	0.01	9.10	0.5641	0.1224	0.2048	0.2096	0.3507	0.0054	0.0013	0.0135	0.2407	2.4999				
40	0.01	9.86	0.5145	0.1100	0.1779	0.2138	0.3458	-0.0077	0.0006	0.0133	-0.0779	-1.7317				
41	0.01	10.67	0.4482	0.0974	0.1483	0.2173	0.3310	0.0068	-0.0001	0.0085	-0.0147	1.2450				
42	0.01	11.50	0.3710	0.0832	0.1191	0.2243	0.3211	-0.0105	-0.0013	0.0081	0.1238	-0.7715				
43	0.01	12.25	0.3126	0.0716	0.0982	0.2290	0.3140	-0.0067	-0.0001	0.0100	0.0149	-1.4877				
44	0.01	13.07	0.2439	0.0546	0.0661	0.2239	0.2709	-0.0176	-0.0032	0.0028	0.1818	-0.1611				
45	0.01	13.82	0.1832	0.0398	0.0445	0.2172	0.2431	-0.0252	-0.0049	-0.0001	0.1944	0.0038				
46	0.01	14.62	0.1184	0.0257	0.0236	0.2171	0.1989	-0.0173	-0.0032	0.0020	0.1850	-0.1177				

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.85	1.7	0.0	BZMOF16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF6	CH6	CB6	XCPF4	YCPF4
47	0.01	15.37	0.0616	0.0110	0.0032	0.1786	0.0524	-0.0233	-0.0060	-0.0073	0.2575	0.3118
48	0.01	16.16	0.0221	-0.0009	-0.0112	-0.0407	-0.5084	-0.0558	-0.0101	-0.0152	0.1810	0.2723
49	0.02	16.98	-0.0386	-0.0166	-0.0292	0.4301	0.7555	-0.0359	-0.0077	-0.0115	0.2145	0.3193
50	0.01	17.78	-0.0853	-0.0316	-0.0433	0.3705	0.5079	-0.0433	-0.0100	-0.0170	0.2309	0.3933
51	0.01	18.44	-0.1445	-0.0485	-0.0604	0.3356	0.4183	-0.0333	-0.0060	-0.0073	0.1802	0.2191
52	0.01	19.46	-0.2043	-0.0648	-0.0839	0.3172	0.4106	-0.0294	-0.0059	-0.0053	0.2007	0.1802
53	0.01	20.16	-0.2602	-0.0768	-0.1053	0.2952	0.4047	-0.0081	-0.0043	-0.0014	0.5309	0.1727

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION
6	0.92	1.7	0.0	B2NOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	-19.93	0.1195	-0.3283	3.6984	-7.6075	0.0	0.6341	-2.7473	
2	0.02	-19.61	0.1124	-0.3383	3.6477	-7.6665	0.0040	0.6353	-3.0103	
3	0.01	-18.91	0.0942	-0.3158	3.6262	-7.6034	0.0020	0.6281	-3.3533	
4	0.01	-18.06	0.0959	-0.3692	3.5291	-7.4455	0.0080	0.6113	-3.8505	
5	0.01	-17.22	0.0953	-0.3814	3.3865	-7.5417	0.0080	0.6271	-4.0023	
6	0.02	-16.38	0.0809	-0.2092	3.2971	-7.5045	0.0100	0.6201	-2.5866	
7	0.01	-15.59	0.0627	-0.2727	3.1630	-7.4848	0.0070	0.6151	-4.3506	
8	0.01	-14.76	0.0720	-0.2728	3.0527	-7.4684	0.0070	0.6064	-3.7889	
9	0.01	-13.96	0.0467	-0.2723	2.9411	-7.3521	0.0080	0.6011	-5.8325	
10	0.01	-13.10	0.0511	-0.2355	2.7889	-7.2801	0.0180	0.6047	-4.6094	
11	0.01	-12.34	0.0639	-0.2614	2.6872	-7.2217	0.0170	0.6124	-4.0917	
12	0.02	-11.60	0.0519	-0.1886	2.5642	-7.1954	0.0080	0.6062	-3.6351	
13	0.02	-10.81	0.0560	-0.1964	2.5385	-7.2494	0.0050	0.6066	-3.5071	
14	0.01	-10.08	0.0712	-0.2706	2.4018	-7.0920	0.0110	0.6173	-3.8017	
15	0.01	-9.29	0.0624	-0.2543	2.2664	-6.9215	0.0150	0.6080	-4.0763	
16	0.01	-8.53	0.0475	-0.2315	2.2075	-7.0290	0.0080	0.6155	-4.8737	
17	0.01	-7.72	0.0475	-0.1965	2.1057	-6.9115	0.0050	0.6116	-4.1368	
18	0.01	-6.93	0.0819	-0.3136	2.1055	-6.9782	0.0170	0.6027	-3.8298	
19	0.01	-6.10	0.0419	-0.2026	2.0070	-6.9733	0.0100	0.6023	-4.8368	
20	0.01	-5.36	0.0825	-0.3475	2.0256	-7.1839	0.0230	0.6012	-4.2121	
21	0.01	-4.64	0.0583	-0.2806	1.9304	-7.3700	0.0140	0.6147	-4.8134	
22	0.01	-3.82	0.0901	-0.3631	1.9212	-7.4821	0.0350	0.5980	-4.0304	
23	0.01	-3.03	0.0536	-0.2870	1.9470	-7.6142	0.0240	0.5846	-5.3552	
24	0.01	-2.20	0.0523	-0.2652	1.8344	-7.5505	0.0130	0.5607	-5.0711	
25	0.01	-1.44	0.0527	-0.2537	1.7931	-7.4976	0.0080	0.5560	-4.8156	
26	0.01	-0.61	0.0344	-0.2331	1.6975	-7.3668	0.0020	0.5496	-6.7779	
27	0.01	0.14	0.0451	-0.2511	1.6207	-7.2003	-0.0100	0.5367	-5.5685	
28	0.01	0.92	0.0550	-0.2750	1.5397	-7.0609	0.0010	0.5259	-5.0000	
29	0.01	1.67	0.0438	-0.2373	1.3790	-6.6930	0.0040	0.5048	-5.4183	
30	0.01	2.48	0.0381	-0.1913	1.3516	-6.5097	0.0440	0.4928	-5.0220	
31	0.01	3.22	0.0486	-0.2210	1.1591	-6.1532	0.0430	0.4695	-4.5481	
32	0.01	4.00	0.0311	-0.1905	1.1676	-6.1741	-0.0060	0.4702	-6.1267	
33	0.01	4.77	0.0284	-0.1687	0.9827	-5.9081	-0.0060	0.4563	-5.9422	
34	0.01	5.58	0.0368	-0.1885	0.9432	-5.6709	-0.0100	0.4424	-5.1228	
35	0.01	6.41	0.0307	-0.1450	0.7721	-5.3344	-0.0010	0.4147	-4.7225	
36	0.01	7.18	0.0401	-0.2081	0.6101	-5.0626	-0.0040	0.3959	-5.1905	
37	0.01	8.00	0.0288	-0.1273	0.5199	-4.7654	0.0070	0.3709	-4.4208	
38	0.01	8.81	0.0419	-0.2086	0.3350	-4.3724	-0.0060	0.3407	-4.9799	
39	0.01	9.64	0.0300	-0.2030	0.2074	-3.9538	-0.0030	0.3125	-6.7667	
40	0.01	10.45	0.0365	-0.1661	0.0724	-3.6539	-0.0020	0.2766	-4.5507	
41	0.01	11.25	0.0397	-0.1956	-0.1364	-3.2126	-0.0080	0.2322	-4.9264	
42	0.01	12.03	0.0313	-0.1348	-0.2791	-2.9099	-0.0100	0.2001	-4.3073	
43	0.01	12.85	0.0500	-0.1700	-0.4176	-2.4969	-0.0160	0.1753	-3.4000	
44	0.01	13.57	0.0362	-0.1537	-0.6869	-1.9929	-0.0330	0.1387	-4.2453	
45	0.01	14.40	0.0408	-0.0841	-0.8778	-1.5157	-0.0310	0.1035	-2.0618	
46	0.01	15.15	0.0527	-0.1358	-1.0167	-1.2113	-0.0340	0.0840	-2.5765	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	15.94	0.0511	-0.0745	-1.2647	-0.8600	-0.0410	0.0484	-1.4587
48	0.02	16.72	0.0649	-0.1268	-1.3590	-0.5520	-0.0510	0.0326	-1.9547
49	0.01	17.56	0.0414	-0.0939	-1.5906	-0.1119	-0.0470	-0.0095	-2.2696
50	0.02	18.40	0.0342	0.0161	-1.7580	0.1685	-0.0370	-0.0337	0.4713
51	0.01	19.19	-0.0075	0.0195	-1.9527	0.5821	-0.0180	-0.0750	-2.6000
52	0.02	20.04	-0.0034	0.0008	-2.2370	1.0921	-0.0220	-0.1309	-0.2235

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
 6 82 0.92 1.7 0.0 82HOF16 0.6 20 0 20 0 FIXED

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	82	0.92	1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.93	-0.3301	0.0239	0.6474	-0.0724	-1.9612	0.0265	0.0032	-0.0070	0.1208	-0.2630
2	0.02	-19.61	-0.3332	0.0248	0.6435	-0.0744	-1.9312	0.0227	0.0044	-0.0098	0.1938	-0.4333
3	0.01	-18.91	-0.3362	0.0244	0.6421	-0.0726	-1.9098	0.0251	0.0033	-0.0012	0.1315	-0.0493
4	0.01	-18.06	-0.3399	0.0272	0.6315	-0.0800	-1.8580	0.0119	0.0022	-0.0193	0.1849	-1.6248
5	0.01	-17.22	-0.3348	0.0282	0.6313	-0.0842	-1.8857	0.0241	0.0019	-0.0087	0.0788	-0.3597
6	0.02	-16.38	-0.3461	0.0300	0.6216	-0.0867	-1.7959	0.0023	-0.0029	-0.0205	-1.2609	-8.9277
7	0.01	-15.59	-0.3391	0.0322	0.6146	-0.0950	-1.8125	0.0139	-0.0006	-0.0085	-0.0432	-0.6092
8	0.01	-14.76	-0.3450	0.0342	0.6084	-0.0991	-1.7636	0.0225	-0.0008	-0.0076	-0.0356	-0.3379
9	0.01	-13.96	-0.3635	0.0349	0.6044	-0.0960	-1.6627	0.0125	-0.0035	-0.0138	-0.2800	-1.1068
10	0.01	-13.10	-0.3616	0.0359	0.5947	-0.0993	-1.6447	0.0071	-0.0047	-0.0153	-0.6620	-2.1597
11	0.01	-12.34	-0.3813	0.0363	0.5892	-0.0952	-1.5454	0.0095	-0.0047	-0.0132	-0.4947	-1.3931
12	0.02	-11.60	-0.3749	0.0376	0.5718	-0.1003	-1.5251	0.0057	-0.0024	-0.0105	-0.4211	-1.8422
13	0.02	-10.81	-0.3761	0.0381	0.5645	-0.1013	-1.5009	0.0107	-0.0007	-0.0075	-0.0654	-0.7042
14	0.01	-10.08	-0.3729	0.0381	0.5624	-0.1022	-1.5083	0.0237	0.0007	-0.0013	0.0295	-0.0550
15	0.01	-9.29	-0.3834	0.0386	0.5495	-0.1007	-1.4344	0.0267	-0.0008	-0.0015	-0.0300	-0.0563
16	0.01	-8.53	-0.3811	0.0391	0.5404	-0.1026	-1.4180	0.0105	-0.0018	-0.0066	-0.1714	-0.6287
17	0.01	-7.72	-0.3855	0.0395	0.5340	-0.1025	-1.3853	0.0225	-0.0002	-0.0026	-0.0089	-0.1157
18	0.01	-6.93	-0.3831	0.0395	0.5324	-0.1031	-1.3898	0.0169	-0.0008	-0.0036	-0.0473	-0.2112
19	0.01	-6.10	-0.3763	0.0395	0.5340	-0.1050	-1.4191	0.0198	-0.0014	-0.0034	-0.0707	-0.1718
20	0.01	-5.36	-0.3671	0.0398	0.5468	-0.1084	-1.4894	0.0330	-0.0010	0.0027	-0.0303	0.0817
21	0.01	-4.64	-0.3706	0.0391	0.5601	-0.1055	-1.5114	0.0274	0.0004	0.0011	0.0146	0.0412
22	0.01	-3.82	-0.3657	0.0385	0.5712	-0.1053	-1.5621	0.0301	-0.0032	0.0025	-0.0066	0.0840
23	0.01	-3.03	-0.3663	0.0402	0.5707	-0.1097	-1.5581	0.0199	-0.0006	-0.0037	-0.0302	-0.1844
24	0.01	-2.20	-0.3829	0.0418	0.5652	-0.1092	-1.4761	0.0129	-0.0001	-0.0049	-0.0078	-0.3800
25	0.01	-1.44	-0.3734	0.0439	0.5632	-0.1176	-1.5082	0.0085	-0.0031	-0.0049	-0.0118	-0.5727
26	0.01	-0.61	-0.3904	0.0441	0.5513	-0.1130	-1.4122	0.0097	0.0	-0.0038	0.0	-0.3884
27	0.01	0.14	-0.4067	0.0463	0.5330	-0.1138	-1.3105	0.0093	0.0017	-0.0025	0.1828	-0.2689
28	0.01	0.92	-0.4228	0.0542	0.5270	-0.1282	-1.2465	0.0122	0.0017	-0.0023	0.1393	-0.1914
29	0.01	1.67	-0.7641	0.0301	0.5629	-0.0394	-0.7367	0.0137	0.0010	-0.0025	0.0730	-0.1850
30	0.01	2.48	-0.5883	0.1112	0.5316	-0.1890	-0.9036	0.0147	0.0010	-0.0003	0.0680	-0.0205
31	0.01	3.22	-0.6306	0.1125	0.5649	-0.1784	-0.8006	0.0198	0.0027	0.0022	0.1364	0.1110
32	0.01	4.00	-0.6646	0.1102	0.4783	-0.1658	-0.7197	0.0089	0.0018	-0.0011	0.2022	-0.1275
33	0.01	4.77	-0.6910	0.1073	0.4557	-0.1553	-0.6595	0.0077	0.0015	-0.0020	0.1948	-0.2642
34	0.01	5.58	-0.7085	0.1043	0.4366	-0.1472	-0.6163	0.0085	0.0005	-0.0051	0.0588	-0.5962
35	0.01	6.41	-0.7331	0.0958	0.4033	-0.1307	-0.5502	0.0078	0.0014	-0.0023	0.1795	-0.2450
36	0.01	7.18	-0.7680	0.0893	0.3803	-0.1163	-0.4952	0.0130	0.0027	0.0000	0.2077	0.0024
37	0.01	8.00	-0.7970	0.0819	0.3519	-0.1028	-0.4416	0.0148	0.0024	-0.0015	0.1622	-0.0492
38	0.01	8.81	-0.8380	0.0750	0.3200	-0.0895	-0.3818	0.0172	0.0032	0.0007	0.1860	0.0425
39	0.01	9.64	-0.8848	0.0698	0.2894	-0.0789	-0.3270	0.0211	0.0041	0.0029	0.1943	0.1389
40	0.01	10.45	-0.9318	0.0636	0.2566	-0.0683	-0.2754	0.0154	0.0038	0.0020	0.2468	0.1319
41	0.01	11.25	-1.0003	0.0536	0.2235	-0.0536	-0.2234	0.0222	0.0050	0.0045	0.2252	0.2026
42	0.01	12.03	-1.0495	-0.0455	0.1947	-0.0434	-0.1855	0.0183	0.0042	0.0025	0.2295	0.1365
43	0.01	12.85	-1.1047	0.0319	0.1652	-0.0289	-0.1495	0.0230	0.0044	0.0015	0.1913	0.0636
44	0.01	13.57	-1.1821	0.0181	0.1333	-0.0153	-0.1128	0.0257	0.0073	0.0020	0.2840	0.0764
45	0.01	14.40	-1.2535	0.0070	0.1078	-0.0056	-0.0860	0.0204	0.0057	-0.0002	0.2794	-0.0099
46	0.01	15.15	-1.3151	-0.0048	0.0884	0.0036	-0.0672	0.0309	0.0087	0.0049	0.2816	0.1585

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		82		0.92		1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.02	15.94	-1.3792	-0.0204	0.0625	0.0148	-0.0453	0.0266	0.0082	0.0043	0.3083	0.1603		
48	0.02	16.72	-1.4271	-0.0340	0.0449	0.0238	-0.0314	0.0283	0.0069	0.0040	0.2438	0.1424		
49	0.01	17.56	-1.5011	-0.0545	0.0201	0.0363	-0.0134	0.0434	0.0082	0.0091	0.1889	0.2088		
50	0.02	18.40	-1.5546	-0.0699	0.0061	0.0450	-0.0026	0.0411	0.0073	0.0063	0.1776	0.1532		
51	0.01	19.19	-1.6015	-0.0796	-0.0148	0.0497	0.0093	0.0405	0.0052	0.0038	0.1284	0.0937		
52	0.02	20.04	-1.6772	-0.0874	-0.0494	0.0521	0.0294	0.0425	0.0063	0.0078	0.1482	0.1826		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX 10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.92	1.7	U-0	B2W0F16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	LNFB	CH3	CB3	XCPF3	YCPF3	LNFB4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.93	1.2866	0.0646	0.4878	0.0502	0.3791	-0.0697	-0.0089	0.0034	0.1277	-0.0484
2	0.02	-19.61	1.2866	0.0649	0.4878	0.0504	0.3791	-0.0850	-0.0100	0.0031	0.1176	-0.0362
3	0.01	-18.91	1.2804	0.0657	0.4856	0.0513	0.3793	-0.0772	-0.0100	0.0029	0.1295	-0.0373
4	0.01	-18.06	1.2788	0.0667	0.4815	0.0522	0.3765	-0.0697	-0.0039	0.0034	0.1277	-0.0484
5	0.01	-17.22	1.2517	0.0680	0.4767	0.0543	0.3808	-0.0697	-0.0089	0.0034	0.1277	-0.0484
6	0.02	-16.38	1.2504	0.0698	0.4710	0.0556	0.3748	-0.0771	-0.0100	0.0028	0.1297	-0.0364
7	0.01	-15.59	1.2247	0.0721	0.4671	0.0569	0.3814	-0.0624	-0.0079	0.0052	0.1266	-0.0835
8	0.01	-14.76	1.2213	0.0736	0.4552	0.0603	0.3727	-0.0694	-0.0095	0.0034	0.1369	-0.0486
9	0.01	-13.96	1.2072	0.0750	0.4502	0.0621	0.3729	-0.0692	-0.0099	0.0033	0.1431	-0.0483
10	0.01	-13.10	1.2028	0.0758	0.4442	0.0630	0.3693	-0.0592	-0.0066	0.0077	0.1115	-0.1296
11	0.01	-12.34	1.1697	0.0767	0.4391	0.0656	0.3754	-0.0592	-0.0072	0.0084	0.1216	-0.1414
12	0.02	-11.60	1.1735	0.0766	0.4350	0.0653	0.3707	-0.0519	-0.0055	0.0095	0.1060	-0.1632
13	0.02	-10.81	1.1640	0.0766	0.4292	0.0658	0.3687	-0.0552	-0.0063	0.0078	0.1141	-0.1414
14	0.01	-10.08	1.1449	0.0768	0.4219	0.0671	0.3685	-0.0588	-0.0072	0.0076	0.1224	-0.1294
15	0.01	-9.29	1.1045	0.0778	0.4046	0.0704	0.3664	-0.0452	-0.0042	0.0128	0.0929	-0.2840
16	0.01	-8.53	1.1099	0.0769	0.4099	0.0693	0.3693	-0.0484	-0.0050	0.0112	0.1033	-0.2308
17	0.01	-7.72	1.0888	0.0769	0.3993	0.0706	0.3667	-0.0525	-0.0050	0.0123	0.0952	-0.2344
18	0.01	-6.93	1.0882	0.0766	0.3947	0.0704	0.3627	-0.0525	-0.0044	0.0123	0.0838	-0.2344
19	0.01	-6.10	1.0714	0.0762	0.3847	0.0711	0.3591	-0.0400	-0.0050	0.0088	0.1250	-0.2193
20	0.01	-5.36	1.0766	0.0766	0.3873	0.0711	0.3298	-0.0419	-0.0029	0.0151	0.0692	-0.3613
21	0.01	-4.64	1.1248	0.0778	0.4078	0.0692	0.3626	-0.0569	-0.0042	0.0141	0.0738	-0.2485
22	0.01	-3.82	1.1144	0.0777	0.4026	0.0697	0.3613	-0.0460	-0.0023	0.0156	0.0500	-0.3385
23	0.01	-3.03	1.1397	0.0773	0.4148	0.0678	0.3639	-0.0456	-0.0020	0.0135	0.0439	-0.2962
24	0.01	-2.20	1.1738	0.0797	0.4225	0.0679	0.3600	-0.0457	-0.0020	0.0136	0.0438	-0.2970
25	0.01	-1.44	1.1746	0.0820	0.4217	0.0698	0.3590	-0.0455	-0.0029	0.0128	0.0637	-0.2822
26	0.01	-0.61	1.1446	0.0820	0.4160	0.0716	0.3634	-0.0455	-0.0029	0.0128	0.0637	-0.2822
27	0.01	0.14	1.1357	0.0955	0.4107	0.0841	0.3617	-0.0267	-0.0004	0.0141	0.0150	-0.5282
28	0.01	0.92	1.0997	0.0997	0.3973	0.0907	0.3613	-0.0346	-0.0012	0.0150	0.0347	-0.4327
29	0.01	1.67	1.0223	0.0972	0.3767	0.0951	0.3685	-0.0347	-0.0004	0.0150	0.0115	-0.4334
30	0.01	2.48	0.9770	0.1011	0.3505	0.1035	0.3587	-0.0347	-0.0004	0.0150	0.0115	-0.4334
31	0.01	3.22	0.9085	0.1115	0.3279	0.1227	0.3610	-0.0387	-0.0001	0.0155	0.0026	-0.4006
32	0.01	4.00	0.9634	0.1474	0.3549	0.1535	0.3696	-0.0226	-0.0004	0.0136	0.0177	-0.6004
33	0.01	4.77	0.9157	0.1416	0.3315	0.1546	0.3620	-0.0309	-0.0010	0.0159	0.0324	-0.5147
34	0.01	5.58	0.8721	0.1348	0.3149	0.1546	0.3611	-0.0384	-0.0012	0.0147	0.0312	-0.3829
35	0.01	6.41	0.8015	0.1265	0.2830	0.1578	0.3531	-0.0343	-0.0029	0.0150	0.0845	-0.4365
36	0.01	7.18	0.7524	0.1201	0.2617	0.1596	0.3478	-0.0353	-0.0030	0.0191	0.0850	-0.5421
37	0.01	8.00	0.6801	0.1115	0.2343	0.1659	0.3445	-0.0273	-0.0030	0.0183	0.1099	-0.6704
38	0.01	8.81	0.6252	0.1045	0.2079	0.1671	0.3326	-0.0233	-0.0030	0.0178	0.1288	-0.7655
39	0.01	9.64	0.5559	0.0977	0.1777	0.1758	0.3197	-0.0274	-0.0032	0.0184	0.1168	-0.6704
40	0.01	10.45	0.4843	0.0916	0.1511	0.1891	0.3119	-0.0234	-0.0030	0.0179	0.1282	-0.7651
41	0.01	11.25	0.4121	0.0818	0.1262	0.1985	0.3063	-0.0191	-0.0030	0.0160	0.1571	-0.8396
42	0.01	12.03	0.3558	0.0689	0.0957	0.1936	0.2689	-0.0222	-0.0038	0.0130	0.1712	-0.5857
43	0.01	12.85	0.3003	0.0572	0.0731	0.1905	0.2433	-0.0216	-0.0051	0.0109	0.2361	-0.5047
44	0.01	13.57	0.2218	0.0415	0.0484	0.1871	0.2182	-0.0426	-0.0082	0.0030	0.1925	-0.0705
45	0.01	14.40	0.1603	0.0272	0.0203	0.1697	0.1267	-0.0234	-0.0072	0.0035	0.3077	-0.1497
46	0.01	15.15	0.1090	0.0166	0.0018	0.1523	0.0167	-0.0428	-0.0073	0.0029	0.1706	-0.0687

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		82		0.92		1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	0.02	15.94	0.0432	0.0012	-0.0191	0.0278	-0.4422	-0.0572	-0.0100	-0.0002	0.1748	0.0028		
48	0.02	16.72	-0.0029	-0.0096	-0.0344	3.3103	11.8505	-0.0538	-0.0074	0.0001	0.1375	-0.0014		
49	0.01	17.56	-0.0712	-0.0259	-0.0590	0.3638	0.8290	-0.0682	-0.0088	-0.0038	0.1290	0.0561		
50	0.02	18.40	-0.1385	-0.0445	-0.0796	0.3213	0.5744	-0.0538	-0.0076	0.0001	0.1413	-0.0014		
51	0.01	19.19	-0.2331	-0.0603	-0.1052	0.2587	0.4512	-0.0202	-0.0031	0.0198	0.1535	-0.9787		
52	0.02	20.04	-0.2981	-0.0707	-0.1284	0.2372	0.4308	-0.0332	-0.0073	0.0102	0.2199	-0.3084		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	83	0.97	1.7	0.0	82	0F16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
1	0.01	-19.83	0.0861	-0.3995	3.9694	-8.3558	-0.0180	0.6840	-4.6404			
2	0.02	-19.49	0.1534	-0.4267	3.8836	-8.2987	-0.0110	0.6797	-2.7820			
3	0.01	-18.64	0.1387	-0.4121	3.9219	-8.1863	-0.0150	0.6762	-2.9717			
4	0.0	-17.82	0.0877	-0.3897	3.6533	-8.1253	-0.0070	0.6865	-4.4445			
5	0.0	-16.96	0.0534	-0.2957	3.6031	-8.1596	0.0050	0.6540	-5.5386			
6	0.01	-16.14	0.1064	-0.3749	3.4120	-8.1003	0.0080	0.6895	-3.5241			
7	0.0	-15.36	0.0541	-0.3587	3.4102	-8.2588	0.0140	0.6578	-6.6311			
8	0.01	-14.50	0.0775	-0.2965	3.1837	-8.2227	0.0170	0.6883	-3.8258			
9	0.01	-13.78	0.0900	-0.3190	3.2141	-8.3272	0.0130	0.6838	-3.5444			
10	0.01	-12.96	0.0562	-0.2906	2.8956	-8.2653	0.0140	0.7160	-5.1722			
11	0.01	-12.10	0.0645	-0.2903	2.8715	-8.3276	0.0210	0.7345	-4.5008			
12	0.01	-11.38	0.0610	-0.2694	2.9148	-8.5092	0.0120	0.7357	-4.4164			
13	0.0	-10.62	0.0339	-0.2514	2.8844	-8.4706	0.0160	0.7386	-7.4177			
14	0.01	-9.90	0.0718	-0.3205	2.8438	-8.8217	0.0220	0.7637	-4.4641			
15	0.01	-9.06	0.0950	-0.3380	2.8205	-8.9631	0.0190	0.7696	-3.5579			
16	0.0	-8.34	0.0839	-0.3834	2.6831	-9.1257	0.0290	0.7911	-4.5704			
17	0.01	-7.53	0.0575	-0.2645	2.6673	-9.3544	0.0160	0.8086	-4.6870			
18	0.01	-6.75	0.0360	-0.2094	2.5135	-9.1571	0.0100	0.7857	-5.8167			
19	0.01	-5.95	0.0517	-0.2643	2.4622	-9.1543	0.0100	0.7653	-5.1137			
20	0.01	-5.17	0.0701	-0.2981	2.4073	-8.9825	0.0140	0.7403	-4.2531			
21	0.0	-4.38	0.0440	-0.2776	2.3073	-8.7165	0.0120	0.7109	-6.3091			
22	0.01	-3.60	0.0560	-0.3224	2.2209	-8.5926	0.0170	0.6702	-5.7571			
23	0.01	-2.78	0.0702	-0.3354	2.0602	-8.4796	0.0030	0.6647	-4.7761			
24	0.01	-2.00	0.0311	-0.2045	2.0637	-8.3385	0.0	0.6358	-6.5768			
25	0.01	-1.21	0.0742	-0.3218	1.8881	-8.0436	0.0	0.6104	-4.3380			
26	0.01	-0.38	0.0064	-0.1669	1.7615	-7.7194	0.0060	0.5905	-2.0875			
27	0.0	0.35	0.0596	-0.3014	1.6674	-7.4207	0.0110	0.5709	-5.0577			
28	0.01	1.14	0.0660	-0.2874	1.5369	-7.0730	0.0070	0.5472	-4.3545			
29	0.02	1.88	0.0828	-0.3199	1.4960	-7.0438	0.0580	0.5501	-3.8638			
30	0.01	2.63	0.0430	-0.2404	1.4048	-7.0021	0.0040	0.5383	-5.5860			
31	0.01	3.41	0.0246	-0.1824	1.2765	-6.7365	0.0080	0.5339	-7.4163			
32	0.01	4.15	0.0533	-0.2626	1.1621	-6.4454	0.0030	0.5144	-4.9272			
33	0.02	4.98	0.0477	-0.2357	0.9721	-6.0463	0.0050	0.4815	-4.9430			
34	0.01	5.80	0.0507	-0.2699	0.9582	-5.8769	0.0010	0.4715	-5.3250			
35	0.01	6.62	0.0382	-0.2055	0.8152	-5.5187	0.0100	0.4522	-5.3791			
36	0.01	7.39	0.0604	-0.2732	0.6994	-5.2206	-0.0010	0.4233	-4.5291			
37	0.01	8.22	0.0119	-0.1466	0.5638	-4.8938	0.0070	0.3987	-12.3244			
38	0.01	9.02	0.0375	-0.1905	0.3105	-4.3657	0.0050	0.3605	-5.0800			
39	0.01	9.83	0.0565	-0.2141	0.1736	-4.0105	-0.0030	0.3340	-3.7894			
40	0.01	10.62	0.0422	-0.1991	0.0209	-3.6238	-0.0060	0.3130	-4.7175			
41	0.01	11.46	0.0280	-0.1392	-0.1487	-3.2334	-0.0070	0.2747	-4.9714			
42	0.02	12.21	0.0440	-0.1516	-0.3439	-2.8742	-0.0160	0.2425	-3.4455			
43	0.02	13.01	0.0472	-0.1491	-0.5655	-2.3958	-0.0180	0.2031	-3.1585			
44	0.02	13.76	0.0372	-0.1121	-0.6591	-2.0455	-0.0230	0.1898	-3.0129			
45	0.02	14.50	0.0390	-0.1146	-0.8964	-1.6277	-0.0250	0.1530	-2.9385			
46	0.02	15.29	0.0299	-0.0669	-1.1584	-1.1208	-0.0340	0.1101	-2.2361			

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 83 0.97 1.7 0.0 B2WOF16 0.0 20 0 20 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	16.07	0.0214	-0.0080	-1.3767	-0.7852	-0.0300	0.0894	-0.3720
48	0.02	16.88	0.0132	-0.0205	-1.4194	-0.6415	-0.0380	0.0766	-1.5515
49	0.03	17.68	0.0185	0.0451	-1.7362	-0.1700	-0.0350	0.0265	2.4378
50	0.02	18.56	0.0415	-0.0801	-1.9886	0.2904	-0.0410	-0.0107	-1.9301
51	0.02	19.35	-0.0205	0.1077	-2.1354	0.7779	-0.0290	-0.0482	-5.2537
52	0.02	20.18	-0.0399	0.0469	-2.3397	1.1408	-0.0430	-0.0920	-1.1744
53	0.02	20.56	-0.0762	0.2296	-2.6100	1.7672	-0.0230	-0.1564	-3.0142

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	83	0.97	1.7	0.0	0.2WOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CN1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-19.83	-0.4472	0.0188	0.7021	-0.0420	-1.5700	0.0522	0.0096	0.0032	0.1839	0.0612
2	0.02	-19.49	-0.4534	0.0191	0.6978	-0.0421	-1.5391	0.0457	0.0076	-0.0048	0.1663	-0.1044
3	0.01	-18.64	-0.4475	0.0209	0.6947	-0.0467	-1.5524	0.0542	0.0088	0.0009	0.1624	0.0159
4	0.0	-17.82	-0.4521	0.0228	0.6883	-0.0504	-1.5223	0.0424	0.0080	-0.0029	0.1887	-0.0677
5	0.0	-16.96	-0.4594	0.0246	0.6879	-0.0535	-1.4974	0.0323	0.0035	-0.0122	0.1084	-0.3789
6	0.01	-16.14	-0.4460	0.0257	0.6800	-0.0579	-1.5314	0.0311	0.0038	-0.0072	0.1222	-0.2327
7	0.0	-15.36	-0.4470	0.0269	0.6721	-0.0602	-1.5035	0.0166	0.0024	-0.0226	0.1446	-1.3596
8	0.01	-14.50	-0.4473	0.0274	0.6672	-0.0613	-1.4915	0.0228	0.0028	-0.0137	0.1228	-0.6010
9	0.01	-13.78	-0.4514	0.0280	0.6645	-0.0620	-1.4721	0.0085	0.0025	-0.0184	0.2941	-2.1609
10	0.01	-12.96	-0.4531	0.0279	0.6589	-0.0616	-1.4542	0.0118	0.0006	-0.0139	0.0508	-1.1753
11	0.01	-12.10	-0.4464	0.0280	0.6579	-0.0627	-1.4737	0.0198	0.0014	-0.0129	0.0707	-0.6516
12	0.01	-11.38	-0.4481	0.0284	0.6552	-0.0634	-1.4621	0.0207	0.0028	-0.0113	0.1353	-0.5460
13	0.0	-10.62	-0.4422	0.0279	0.6644	-0.0631	-1.5024	0.0190	0.0012	-0.0096	0.0632	-0.5036
14	0.01	-9.90	-0.4310	0.0282	0.6690	-0.0654	-1.5522	0.0171	0.0001	-0.0131	0.0058	-0.7662
15	0.01	-9.06	-0.4356	0.0284	0.6713	-0.0652	-1.5410	0.0247	-0.0003	-0.0043	-0.0121	-0.1729
16	0.0	-8.34	-0.4331	0.0278	0.6917	-0.0642	-1.5971	0.0293	-0.0011	-0.0056	-0.0375	-0.1924
17	0.01	-7.53	-0.4373	0.0277	0.7041	-0.0633	-1.6101	0.0219	-0.0006	-0.0098	-0.0274	-0.4476
18	0.01	-6.75	-0.4281	0.0290	0.6927	-0.0677	-1.6180	0.0215	-0.0002	-0.0004	-0.0093	-0.3924
19	0.01	-5.95	-0.4450	0.0299	0.6922	-0.0672	-1.5555	0.0221	-0.0004	-0.0107	-0.0181	-0.4858
20	0.01	-5.17	-0.4423	0.0308	0.6794	-0.0696	-1.5361	0.0263	0.0	-0.0054	0.0	-0.2067
21	0.0	-4.38	-0.4580	0.0323	0.6639	-0.0705	-1.4495	0.0226	-0.0003	-0.0073	-0.0133	-0.3217
22	0.01	-3.60	-0.4583	0.0348	0.6477	-0.0759	-1.4132	0.0217	-0.0014	-0.0088	-0.0645	-0.4041
23	0.01	-2.78	-0.4688	0.0359	0.6405	-0.0766	-1.3671	0.0232	0.0006	-0.0043	0.0259	-0.1840
24	0.01	-2.00	-0.4744	0.0362	0.6208	-0.0763	-1.3086	0.0219	-0.0011	-0.0098	-0.0502	-0.4476
25	0.01	-1.21	-0.4780	0.0376	0.6038	-0.0787	-1.2632	0.0287	0.0015	-0.0043	0.0523	-0.1511
26	0.01	-0.38	-0.5044	0.0445	0.5889	-0.0882	-1.1668	0.0151	-0.0014	-0.0103	-0.0927	-0.6800
27	0.0	0.35	-0.5322	0.0491	0.5684	-0.0923	-1.0687	0.0213	-0.0006	-0.0074	-0.0282	-0.3475
28	0.01	1.14	-0.5514	0.0530	0.5438	-0.0961	-0.9862	0.0265	0.0002	-0.0065	0.0075	-0.2441
29	0.02	1.88	-0.4906	0.0901	0.5757	-0.1837	-1.1735	0.0324	0.0017	-0.0023	0.0525	-0.0711
30	0.01	2.63	-0.5041	0.0903	0.5454	-0.1791	-1.0820	0.0272	0.0020	-0.0041	0.0735	-0.1521
31	0.01	3.41	-0.5281	0.0888	0.5247	-0.1681	-0.9936	0.0238	0.0004	-0.0067	0.0168	-0.2802
32	0.01	4.19	-0.5610	0.0870	0.4906	-0.1551	-0.8745	0.0219	0.0012	-0.0049	0.0548	-0.2239
33	0.02	4.98	-0.5977	0.0819	0.4621	-0.1370	-0.7732	0.0273	0.0017	-0.0042	0.0623	-0.1540
34	0.01	5.80	-0.6093	0.0769	0.4384	-0.1262	-0.7195	0.0388	0.0041	-0.0001	0.1057	-0.0018
35	0.01	6.62	-0.6457	0.0719	0.4111	-0.1114	-0.6367	0.0217	-0.0003	-0.0088	-0.0138	-0.4041
36	0.01	7.39	-0.6756	0.0665	0.3825	-0.0984	-0.5661	0.0376	0.0040	-0.0004	0.1064	-0.0099
37	0.01	8.22	-0.7071	0.0611	0.3522	-0.0864	-0.4981	0.0270	0.0004	-0.0078	0.0148	-0.2890
38	0.01	9.02	-0.7483	0.0526	0.3158	-0.0703	-0.4220	0.0275	0.0016	-0.0042	0.0582	-0.1541
39	0.01	9.83	-0.7978	0.0438	0.2786	-0.0549	-0.3492	0.0326	0.0021	-0.0022	0.0644	-0.0686
40	0.01	10.62	-0.8513	0.0366	0.2500	-0.0430	-0.2937	0.0378	0.0029	-0.0008	0.0767	-0.0213
41	0.01	11.46	-0.9112	0.0307	0.2208	-0.0337	-0.2423	0.0388	0.0037	0.0009	0.0954	0.0239
42	0.02	12.21	-0.9699	0.0242	0.1890	-0.0250	-0.1949	0.0437	0.0045	0.0037	0.1030	0.0638
43	0.02	13.01	-1.0286	0.0149	0.1599	-0.0145	-0.1534	0.0442	0.0045	0.0019	0.1018	0.0436
44	0.02	13.76	-1.1051	0.0062	0.1350	-0.0056	-0.1221	0.0440	0.0060	0.0029	0.1364	0.0650
45	0.02	14.50	-1.1770	-0.0012	0.1107	0.0010	-0.0941	0.0475	0.0058	0.0001	0.1221	0.0027
46	0.02	15.29	-1.2450	-0.0117	0.0830	0.0094	-0.0667	0.0481	0.0070	0.0034	0.1455	0.0713

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6		83		0.97		1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.02	16.07	-1.2963	-0.0237	0.0621	0.0183	-0.0479	0.0411	0.0070	0.0035	0.1703	0.0850		
48	0.02	16.88	-1.3600	-0.0399	0.0397	0.0293	-0.0292	0.0424	0.0076	0.0041	0.1792	0.0974		
49	0.03	17.68	-1.4298	-0.0514	0.0160	0.0359	-0.0112	0.0529	0.0092	0.0072	0.1739	0.1366		
50	0.02	18.56	-1.5002	-0.0582	-0.0096	0.0388	0.0064	0.0532	0.0087	0.0061	0.1635	0.1152		
51	0.02	19.35	-1.5680	-0.0624	-0.0399	0.0398	0.0254	0.0442	0.0062	0.0028	0.1403	0.0640		
52	0.02	20.18	-1.6310	-0.0657	-0.0718	0.0403	0.0440	0.0608	0.0080	0.0105	0.1316	0.1720		
53	0.02	20.56	-1.6558	-0.0678	-0.0805	0.0409	0.0486	0.0576	0.0071	0.0068	0.1233	0.1179		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	83	0.97	1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCPF3	CNF4	CH4	CB4	XCFF4	YCPF4
1	0.01	-19.83	1.4366	0.0631	0.5293	0.0439	0.3684	-0.1000	-0.0119	0.0051	0.1190	-0.0508
2	0.02	-19.49	1.4398	0.0637	0.5303	0.0442	0.3683	-0.0936	-0.0104	0.0083	0.1111	-0.0888
3	0.01	-18.64	1.4110	0.0643	0.5240	0.0456	0.3713	-0.0935	-0.0112	0.0083	0.1198	-0.0892
4	0.0	-17.82	1.4090	0.0662	0.5139	0.0470	0.3647	-0.1006	-0.0118	0.0072	0.1173	-0.0714
5	0.0	-16.96	1.3997	0.0682	0.5090	0.0487	0.3637	-0.0939	-0.0104	0.0090	0.1108	-0.0960
6	0.01	-16.14	1.3810	0.0701	0.5042	0.0508	0.3651	-0.0831	-0.0097	0.0097	0.1167	-0.1168
7	0.0	-15.36	1.3831	0.0707	0.5032	0.0511	0.3638	-0.0870	-0.0095	0.0108	0.1092	-0.1243
8	0.01	-14.50	1.3776	0.0712	0.4986	0.0517	0.3620	-0.0758	-0.0084	0.0101	0.1108	-0.1338
9	0.01	-13.78	1.3790	0.0710	0.4975	0.0515	0.3608	-0.0866	-0.0097	0.0101	0.1120	-0.1171
10	0.01	-12.96	1.3563	0.0716	0.4906	0.0528	0.3617	-0.0753	-0.0094	0.0095	0.1248	-0.1263
11	0.01	-12.10	1.3489	0.0708	0.4890	0.0525	0.3625	-0.0639	-0.0094	0.0088	0.1471	-0.1378
12	0.01	-11.38	1.3668	0.0709	0.4931	0.0519	0.3608	-0.0692	-0.0071	0.0140	0.1026	-0.2029
13	0.0	-10.62	1.3717	0.0708	0.4923	0.0516	0.3589	-0.0749	-0.0096	0.0094	0.1282	-0.1261
14	0.01	-9.90	1.3821	0.0716	0.4947	0.0518	0.3580	-0.0610	-0.0075	0.0118	0.1230	-0.1930
15	0.01	-9.06	1.3790	0.0718	0.4928	0.0521	0.3574	-0.0578	-0.0064	0.0139	0.1194	-0.2412
16	0.0	-8.34	1.3828	0.0726	0.4998	0.0525	0.3614	-0.0627	-0.0092	0.0177	0.0829	-0.2824
17	0.01	-7.53	1.4341	0.0732	0.5251	0.0510	0.3661	-0.0688	-0.0071	0.0140	0.1032	-0.2031
18	0.01	-6.75	1.4281	0.0733	0.5230	0.0513	0.3662	-0.0650	-0.0069	0.0134	0.1062	-0.2068
19	0.01	-5.95	1.4256	0.0743	0.5212	0.0521	0.3656	-0.0682	-0.0075	0.0119	0.1100	-0.1741
20	0.01	-5.17	1.4018	0.0747	0.5083	0.0533	0.3626	-0.0587	-0.0050	0.0166	0.0852	-0.2835
21	0.0	-4.38	1.3750	0.0744	0.4969	0.0541	0.3614	-0.0729	-0.0063	0.0157	0.0864	-0.2155
22	0.01	-3.60	1.3366	0.0752	0.4823	0.0563	0.3608	-0.0595	-0.0040	0.0193	0.0672	-0.3239
23	0.01	-2.78	1.3531	0.0790	0.4858	0.0584	0.3590	-0.0569	-0.0020	0.0228	0.0351	-0.4014
24	0.01	-2.00	1.3048	0.0798	0.4712	0.0612	0.3611	-0.0757	-0.0073	0.0128	0.0964	-0.1688
25	0.01	-1.21	1.2972	0.0873	0.4604	0.0673	0.3550	-0.0488	-0.0020	0.0199	0.0410	-0.4086
26	0.01	-0.38	1.2400	0.0952	0.4355	0.0768	0.3512	-0.0749	-0.0073	0.0100	0.0975	-0.1341
27	0.0	0.35	1.1833	0.0938	0.4149	0.0793	0.3506	-0.0636	-0.0022	0.0204	0.0346	-0.3209
28	0.01	1.14	1.1356	0.0950	0.3462	0.0837	0.3489	-0.0597	-0.0020	0.0193	0.0335	-0.3234
29	0.02	1.88	1.0793	0.1004	0.3784	0.0930	0.3506	-0.0598	-0.0012	0.0193	0.0201	-0.3223
30	0.01	2.63	1.1272	0.1341	0.4060	0.1190	0.3602	-0.0630	-0.0020	0.0177	0.0317	-0.2811
31	0.01	3.41	1.0825	0.1302	0.3806	0.1203	0.3516	-0.0741	-0.0022	0.0184	0.0247	-0.2484
32	0.01	4.15	1.0174	0.1275	0.3590	0.1253	0.3529	-0.0452	-0.0004	0.0195	0.0088	-0.4323
33	0.02	4.98	0.9447	0.1218	0.3317	0.1289	0.3511	-0.0544	-0.0016	0.0193	0.0267	-0.3229
34	0.01	5.80	0.9048	0.1164	0.3112	0.1286	0.3439	-0.0544	-0.0020	0.0173	0.0337	-0.2914
35	0.01	6.62	0.8483	0.1092	0.2811	0.1287	0.3413	-0.0544	-0.0030	0.0174	0.0505	-0.2930
36	0.01	7.39	0.8005	0.1037	0.2578	0.1295	0.3221	-0.0441	-0.0022	0.0201	0.0448	-0.4102
37	0.01	8.22	0.7365	0.0958	0.2284	0.1301	0.3101	-0.0633	-0.0034	0.0179	0.0547	-0.2829
38	0.01	9.02	0.6529	0.0880	0.2020	0.1348	0.3093	-0.0601	-0.0022	0.0195	0.0366	-0.3240
39	0.01	9.83	0.5925	0.0792	0.1728	0.1337	0.2917	-0.0715	-0.0028	0.0208	0.0342	-0.2906
40	0.01	10.62	0.5163	0.0689	0.1469	0.1334	0.2846	-0.0565	-0.0014	0.0197	0.0248	-0.3482
41	0.01	11.46	0.4418	0.0563	0.1183	0.1274	0.2678	-0.0635	-0.0022	0.0178	0.0346	-0.2810
42	0.02	12.21	0.3812	0.0488	0.0973	0.1280	0.2553	-0.0545	-0.0028	0.0168	0.0471	-0.2819
43	0.02	13.01	0.3044	0.0386	0.0674	0.1268	0.2215	-0.0475	-0.0034	0.0135	0.0716	-0.2836
44	0.02	13.76	0.2664	0.0321	0.0455	0.1205	0.1707	-0.0607	-0.0063	0.0084	0.1038	-0.1380
45	0.02	14.50	0.1949	0.0205	0.0235	0.1052	0.1208	-0.0712	-0.0072	0.0064	0.1011	-0.0895
46	0.02	15.29	0.1270	0.0088	-0.0050	0.0693	-0.0392	-0.0890	-0.0083	0.0038	0.0933	-0.0432

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		83		0.97 1.7		0.0	B2WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4	
47	0.02	16.07	0.0750	-0.0025	-0.0234	-0.0333	-0.3121	-0.0721	-0.0078	0.0091	0.1082	-0.1259	
48	0.02	16.88	0.0163	-0.0181	-0.0456	-1.1104	-2.7956	-0.0780	-0.0096	0.0039	0.1231	-0.0501	
49	0.03	17.68	-0.0622	-0.0328	-0.0703	0.5273	1.1306	-0.0818	-0.0112	0.0049	0.1369	-0.0604	
50	0.02	18.56	-0.1269	-0.0422	-0.0926	0.3325	0.7296	-0.0719	-0.0065	0.0084	0.1182	-0.1174	
51	0.02	19.35	-0.1942	-0.0487	-0.1161	0.2508	0.5979	-0.0780	-0.0112	0.0045	0.1436	-0.0578	
52	0.02	20.18	-0.2845	-0.0537	-0.1431	0.1888	0.5030	-0.0780	-0.0106	0.0039	0.1359	-0.0501	
53	0.02	20.56	-0.3454	-0.0551	-0.1651	0.1595	0.4780	-0.0827	-0.0117	0.0077	0.1415	-0.0936	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION	
6	85	1.01	1.7	0.0	B2NOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-20.02	0.1206	-0.4248	4.3234	-9.2864	-0.0080	0.8759	-3.5227		
2	0.01	-19.76	0.1802	-0.5042	4.2843	-9.3276	-0.0150	0.8848	-2.7984		
3	0.01	-18.98	0.1181	-0.3943	4.2679	-9.2797	-0.0060	0.8693	-3.3390		
4	0.0	-18.14	0.1027	-0.4227	4.0553	-9.2939	-0.0160	0.8746	-4.1167		
5	0.01	-17.29	0.1033	-0.3646	3.9834	-9.4752	-0.0110	0.8736	-3.5297		
6	0.01	-16.47	0.1205	-0.4086	3.8297	-9.4350	-0.0040	0.8729	-3.3917		
7	0.01	-15.67	0.1225	-0.3874	3.6666	-9.4797	0.0020	0.8855	-3.1633		
8	0.01	-14.86	0.1097	-0.3625	3.5853	-9.5335	0.0140	0.8805	-3.3052		
9	0.01	-14.06	0.0841	-0.3147	3.4596	-9.5429	0.0120	0.8651	-3.7424		
10	0.01	-13.25	0.0856	-0.3238	3.3820	-9.5521	0.0190	0.8677	-3.7832		
11	0.01	-12.45	0.0830	-0.3062	3.3100	-9.6773	0.0160	0.8527	-3.6892		
12	0.01	-11.70	0.0801	-0.3221	3.1515	-9.6979	0.0140	0.8626	-4.0217		
13	0.01	-10.92	0.0537	-0.2591	3.1163	-9.7601	0.0150	0.8623	-4.8264		
14	0.01	-10.19	0.0667	-0.2543	3.0020	-9.8401	0.0140	0.8697	-3.8130		
15	0.01	-9.40	0.0701	-0.2901	2.9618	-9.8808	0.0110	0.8589	-4.1389		
16	0.01	-8.66	0.0751	-0.2937	2.8708	-9.8434	0.0100	0.8589	-3.7262		
17	0.01	-7.83	0.0667	-0.2693	2.7781	-9.7506	0.0080	0.8419	-4.0387		
18	0.0	-7.06	0.0620	-0.3008	2.6665	-9.5663	0.0130	0.8208	-4.8516		
19	0.0	-6.23	0.0707	-0.3329	2.5641	-9.4499	0.0160	0.8001	-4.7098		
20	0.0	-5.47	0.0582	-0.2924	2.4802	-9.2625	0.0110	0.7804	-5.0254		
21	0.01	-4.68	0.0520	-0.2538	2.4077	-9.0860	0.0100	0.7485	-4.8808		
22	0.01	-3.92	0.0538	-0.2453	2.2549	-8.9441	0.0030	0.7338	-4.5598		
23	0.01	-3.09	0.0677	-0.2507	2.1526	-8.6959	0.0	0.7107	-3.7043		
24	0.01	-2.30	0.0604	-0.2445	2.0447	-8.4319	0.0020	0.6860	-4.0490		
25	0.01	-1.47	0.0870	-0.3078	1.9576	-8.2150	0.0050	0.6665	-3.5379		
26	0.01	-0.70	0.0773	-0.3002	1.8316	-7.9145	0.0050	0.6442	-3.8838		
27	0.01	0.07	0.0779	-0.2910	1.7139	-7.6077	0.0080	0.6189	-3.7363		
28	0.01	0.84	0.0746	-0.3104	1.5665	-7.3544	0.0070	0.6144	-4.1614		
29	0.01	1.56	0.0769	-0.3196	1.6504	-7.8078	0.0100	0.6436	-4.1568		
30	0.01	2.39	0.0471	-0.2509	1.4948	-7.3810	0.0130	0.6258	-5.3278		
31	0.01	3.12	0.0635	-0.2689	1.3553	-7.0048	0.0060	0.6088	-4.2346		
32	0.01	3.91	0.0437	-0.2491	1.2561	-6.6639	0.0100	0.5846	-5.7021		
33	0.01	4.67	0.0499	-0.2248	1.1082	-6.3768	0.0100	0.5619	-4.5062		
34	0.01	5.52	0.0562	-0.2346	0.9687	-6.0145	0.0110	0.5336	-4.1758		
35	0.01	6.32	0.0592	-0.2269	0.8342	-5.6723	0.0040	0.5139	-3.8324		
36	0.01	7.09	0.0677	-0.2317	0.6895	-5.3677	0.0050	0.4873	-3.4236		
37	0.02	7.90	0.0684	-0.2227	0.5334	-4.9782	0.0010	0.4572	-3.2567		
38	0.01	8.68	0.0557	-0.2080	0.3754	-4.5950	-0.0010	0.4290	-3.7339		
39	0.01	9.53	0.0398	-0.1787	0.2312	-4.2131	-0.0070	0.3989	-4.4904		
40	0.01	10.33	0.0399	-0.1658	0.0834	-3.8353	-0.0100	0.3618	-4.1569		
41	0.01	11.13	0.0645	-0.1813	-0.1139	-3.3871	-0.0100	0.3252	-2.8109		
42	0.02	11.93	0.0641	-0.1617	-0.3080	-2.9584	-0.0190	0.2884	-2.5232		
43	0.01	12.73	0.0312	-0.1107	-0.5406	-2.5167	-0.0160	0.2600	-3.5474		
44	0.02	13.47	0.0423	-0.1002	-0.6805	-2.2154	-0.0190	0.2317	-2.3693		
45	0.02	14.27	0.0362	-0.1057	-0.8539	-1.7642	-0.0270	0.2031	-2.9193		
46	0.02	15.02	0.0459	-0.1042	-1.0366	-1.4754	-0.0280	0.1855	-2.2715		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	0.5	1.01	1.7	0.0	B2NOF16	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	15.81	0.0321	-0.0149	-1.2290	-1.1430	-0.0270	0.1604	-0.4654
48	0.02	16.58	0.0211	-0.0829	-1.4728	-0.7937	-0.0450	0.1237	-1.6193
49	0.02	17.40	0.0241	0.0073	-1.6546	-0.5292	-0.0370	0.1066	0.3012
50	0.02	18.24	0.0358	-0.0271	-1.8549	-0.1538	-0.0450	0.0719	-0.7575
51	0.02	19.07	0.0243	-0.0610	-2.1213	0.3232	-0.0390	0.0315	-2.9111
52	0.02	19.88	0.0139	0.0175	-2.4007	0.7503	-0.0330	0.0020	1.8019

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	05	1.01	1.7	0.0	B2M0F16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	KCPF1	YCPF1	CNF2	CH2	CB2	KCPF2	YCPF2
1	0.01	-20.02	-0.2903	0.0102	0.7861	-0.0351	-2.7078	0.0483	0.0045	0.0033	0.0932	0.0682
2	0.01	-19.76	-0.2899	0.0102	0.7862	-0.0353	-2.7215	0.0657	0.0068	0.0024	0.1035	0.0364
3	0.01	-18.98	-0.2927	0.0112	0.7804	-0.0383	-2.6661	0.0508	0.0042	-0.0016	0.0827	-0.0310
4	0.01	-18.14	-0.2933	0.0123	0.7727	-0.0419	-2.6344	0.0551	0.0053	-0.0036	0.0962	-0.0661
5	0.01	-17.29	-0.2915	0.0125	0.7715	-0.0429	-2.6465	0.0535	0.0045	-0.0024	0.0841	-0.0444
6	0.01	-16.47	-0.2949	0.0141	0.7569	-0.0478	-2.5668	0.0354	0.0001	-0.0147	0.0028	-0.4154
7	0.01	-15.67	-0.2935	0.0142	0.7600	-0.0484	-2.5894	0.0360	0.0003	-0.0119	0.0083	-0.3307
8	0.01	-14.86	-0.2929	0.0154	0.7535	-0.0526	-2.5726	0.0203	-0.0024	-0.0226	-0.1182	-1.1151
9	0.01	-14.06	-0.2937	0.0165	0.7459	-0.0562	-2.5398	0.0216	-0.0011	-0.0175	-0.0509	-0.8103
10	0.01	-13.25	-0.2935	0.0170	0.7473	-0.0579	-2.5462	0.0286	-0.0003	-0.0140	-0.0105	-0.4885
11	0.01	-12.45	-0.3006	0.0179	0.7447	-0.0595	-2.4775	0.0327	0.0	-0.0092	0.0	-0.2815
12	0.01	-11.70	-0.2990	0.0186	0.7451	-0.0622	-2.4919	0.0282	0.0010	-0.0126	0.0355	-0.4469
13	0.01	-10.92	-0.2977	0.0191	0.7471	-0.0642	-2.5096	0.0267	0.0004	-0.0116	0.0150	-0.4346
14	0.01	-10.19	-0.2975	0.0199	0.7492	-0.0669	-2.5182	0.0291	0.0	-0.0104	0.0	-0.3575
15	0.01	-9.40	-0.3058	0.0209	0.7453	-0.0683	-2.4372	0.0278	0.0002	-0.0103	0.0072	-0.3718
16	0.01	-8.66	-0.3117	0.0218	0.7448	-0.0699	-2.3896	0.0309	0.0	-0.0066	0.0	-0.2137
17	0.01	-7.83	-0.3252	0.0229	0.7353	-0.0704	-2.2612	0.0278	0.0	-0.0103	0.0	-0.3718
18	0.01	-7.06	-0.3335	0.0240	0.7240	-0.0720	-2.1708	0.0301	0.0003	-0.0142	0.0100	-0.4708
19	0.01	-6.23	-0.3414	0.0255	0.7094	-0.0747	-2.0780	0.0293	-0.0002	-0.0160	-0.0068	-0.5473
20	0.01	-5.47	-0.3509	0.0264	0.6962	-0.0752	-1.9840	0.0285	-0.0003	-0.0128	-0.0105	-0.4492
21	0.01	-4.68	-0.3604	0.0285	0.6801	-0.0791	-1.8871	0.0322	-0.0005	-0.0116	-0.0155	-0.3593
22	0.01	-3.92	-0.3673	0.0291	0.6706	-0.0797	-1.8357	0.0300	0.0002	-0.0082	0.0067	-0.2735
23	0.01	-3.09	-0.3731	0.0306	0.6502	-0.0820	-1.7426	0.0329	0.0002	-0.0092	0.0061	-0.2808
24	0.01	-2.30	-0.3862	0.0317	0.6299	-0.0821	-1.6311	0.0289	0.0	-0.0093	0.0	-0.3208
25	0.01	-1.47	-0.4157	0.0349	0.6159	-0.0840	-1.4816	0.0374	0.0014	-0.0062	0.0374	-0.1668
26	0.01	-0.70	-0.4382	0.0391	0.5968	-0.0892	-1.3619	0.0335	0.0009	-0.0068	0.0269	-0.2041
27	0.01	0.07	-0.4584	0.0430	0.5783	-0.0938	-1.2615	0.0397	0.0017	-0.0053	0.0428	-0.1328
28	0.01	0.84	-0.4840	0.0497	0.5669	-0.1027	-1.1713	0.0397	0.0017	-0.0053	0.0428	-0.1328
29	0.01	1.56	-0.4276	0.0708	0.5984	-0.1056	-1.3995	0.0354	0.0019	-0.0041	0.0537	-0.1159
30	0.01	2.39	-0.4400	0.0694	0.5676	-0.1577	-1.2900	0.0288	-0.0003	-0.0092	-0.0104	-0.3196
31	0.01	3.12	-0.4534	0.0676	0.5394	-0.1491	-1.1897	0.0353	0.0021	-0.0040	0.0595	-0.1144
32	0.01	3.91	-0.4781	0.0665	0.5016	-0.1391	-1.0491	0.0322	0.0008	-0.0072	0.0248	-0.2227
33	0.01	4.67	-0.5056	0.0643	0.4698	-0.1272	-0.9242	0.0308	0.0010	-0.0067	0.0325	-0.2187
34	0.01	5.22	-0.5456	0.0620	0.4413	-0.1136	-0.8088	0.0280	-0.0003	-0.0111	-0.0107	-0.3954
35	0.01	6.32	-0.5724	0.0578	0.4078	-0.1010	-0.7124	0.0399	0.0021	-0.0056	0.0526	-0.1405
36	0.01	7.09	-0.5928	0.0541	0.3772	-0.0913	-0.6363	0.0461	0.0027	-0.0035	0.0586	-0.0768
37	0.02	7.90	-0.6328	0.0483	0.3431	-0.0763	-0.5423	0.0471	0.0030	-0.0020	0.0637	-0.0426
38	0.01	8.68	-0.6720	0.0426	0.3114	-0.0614	-0.4634	0.0499	0.0033	-0.0021	0.0661	-0.0415
39	0.01	9.53	-0.7180	0.0362	0.2814	-0.0504	-0.3919	0.0478	0.0024	-0.0041	0.0502	-0.0852
40	0.01	10.33	-0.7675	0.0308	0.2534	-0.0401	-0.3301	0.0514	0.0029	-0.0023	0.0564	-0.0442
41	0.01	11.13	-0.8269	0.0245	0.2182	-0.0296	-0.2638	0.0565	0.0038	-0.0006	0.0673	-0.0101
42	0.02	11.93	-0.8902	0.0186	0.1875	-0.0209	-0.2106	0.0602	0.0046	0.0008	0.0764	0.0126
43	0.01	12.73	-0.9486	0.0113	0.1588	-0.0119	-0.1674	0.0539	0.0040	-0.0005	0.0742	-0.0100
44	0.02	13.47	-1.0081	0.0052	0.1352	-0.0052	-0.1341	0.0511	0.0042	0.0001	0.0822	0.0025
45	0.02	14.27	-1.0782	-0.0023	0.1066	0.0021	-0.0989	0.0523	0.0051	0.0005	0.0975	0.0101
46	0.02	15.02	-1.1264	-0.0097	0.0864	0.0086	-0.0767	0.0558	0.0058	0.0029	0.1039	0.0519

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		85	1.01	1.7		0.0	B2WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	15.81	-1.1894	-0.0239	0.0606	0.0201	-0.0509	0.0551	0.0078	0.0056	0.1416	0.1009	
48	0.02	16.56	-1.2550	-0.0395	0.0394	0.0315	-0.0314	0.0534	0.0083	0.0068	0.1554	0.1272	
49	0.02	17.40	-1.3250	-0.0505	0.0105	0.0381	-0.0079	0.0419	0.0050	-0.0011	0.1193	-0.0272	
50	0.02	18.24	-1.3839	-0.0574	-0.0125	0.0415	0.0091	0.0564	0.0086	0.0052	0.1525	0.0921	
51	0.02	19.07	-1.4505	-0.0622	-0.0397	0.0429	0.0274	0.0590	0.0086	0.0059	0.1458	0.0993	
52	0.02	19.86	-1.5002	-0.0650	-0.0636	0.0433	0.0424	0.0615	0.0088	0.0068	0.1431	0.1105	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		85	1.01	1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-20.02	1.6289	0.0603	0.6012	0.0370	0.3691	-0.1035	-0.0120	0.0121	0.1159	-0.1170
2	0.01	-19.76	1.6499	0.0597	0.6050	0.0362	0.3667	-0.1101	-0.0126	0.0110	0.1144	-0.1000
3	0.01	-18.98	1.6360	0.0601	0.5988	0.0367	0.3660	-0.1099	-0.0130	0.0104	0.1183	-0.0944
4	0.0	-18.14	1.6377	0.0604	0.5968	0.0369	0.3644	-0.1093	-0.0128	0.0085	0.1171	-0.0776
5	0.01	-17.29	1.6333	0.0607	0.5961	0.0372	0.3650	-0.1035	-0.0117	0.0128	0.1130	-0.1238
6	0.01	-16.47	1.6171	0.0611	0.5907	0.0378	0.3653	-0.1033	-0.0117	0.0127	0.1133	-0.1227
7	0.01	-15.67	1.6166	0.0619	0.5865	0.0383	0.3628	-0.1042	-0.0117	0.0127	0.1134	-0.1232
8	0.01	-14.86	1.6064	0.0626	0.5829	0.0390	0.3628	-0.0890	-0.0111	0.0117	0.1247	-0.1320
9	0.01	-14.06	1.5778	0.0632	0.5726	0.0401	0.3629	-0.0923	-0.0117	0.0114	0.1268	-0.1240
10	0.01	-13.25	1.5767	0.0643	0.5682	0.0408	0.3604	-0.0859	-0.0105	0.0132	0.1222	-0.1534
11	0.01	-12.45	1.5598	0.0651	0.5610	0.0417	0.3597	-0.0939	-0.0097	0.0159	0.1033	-0.1694
12	0.01	-11.70	1.5784	0.0662	0.5687	0.0419	0.3603	-0.0900	-0.0105	0.0143	0.1167	-0.1590
13	0.01	-10.92	1.5724	0.0670	0.5690	0.0426	0.3619	-0.0892	-0.0111	0.0117	0.1244	-0.1305
14	0.01	-10.19	1.5716	0.0676	0.5680	0.0430	0.3614	-0.0902	-0.0100	0.0143	0.1109	-0.1590
15	0.01	-9.40	1.5746	0.0679	0.5690	0.0431	0.3613	-0.0905	-0.0100	0.0149	0.1105	-0.1651
16	0.01	-8.66	1.5863	0.0684	0.5682	0.0431	0.3582	-0.0772	-0.0080	0.0166	0.1036	-0.2147
17	0.01	-7.83	1.5606	0.0693	0.5634	0.0444	0.3610	-0.0913	-0.0090	0.0176	0.0986	-0.1925
18	0.0	-7.06	1.5429	0.0700	0.5536	0.0454	0.3588	-0.0850	-0.0078	0.0194	0.0918	-0.2280
19	0.0	-6.23	1.4912	0.0709	0.5468	0.0475	0.3667	-0.0793	-0.0059	0.0231	0.0744	-0.2910
20	0.0	-5.47	1.4806	0.0714	0.5337	0.0482	0.3604	-0.0880	-0.0090	0.0178	0.1023	-0.2020
21	0.01	-4.68	1.4469	0.0728	0.5199	0.0503	0.3593	-0.0761	-0.0074	0.0192	0.0948	-0.2455
22	0.01	-3.92	1.4295	0.0748	0.5147	0.0523	0.3601	-0.0782	-0.0066	0.0191	0.0844	-0.2448
23	0.01	-3.09	1.4082	0.0761	0.4995	0.0540	0.3547	-0.0852	-0.0072	0.0199	0.0845	-0.2337
24	0.01	-2.30	1.3602	0.0763	0.4827	0.0561	0.3549	-0.0849	-0.0074	0.0193	0.0872	-0.2274
25	0.01	-1.47	1.3246	0.0784	0.4666	0.0592	0.3522	-0.0756	-0.0047	0.0225	0.0622	-0.2977
26	0.01	-0.70	1.2847	0.0806	0.4492	0.0627	0.3496	-0.0828	-0.0047	0.0234	0.0568	-0.2827
27	0.01	0.07	1.2368	0.0833	0.4280	0.0674	0.3461	-0.0751	-0.0046	0.0212	0.0613	-0.2820
28	0.01	0.84	1.2078	0.0912	0.4207	0.0755	0.3483	-0.0760	-0.0031	0.0244	0.0408	-0.3207
29	0.01	1.56	1.2702	0.1191	0.4473	0.0938	0.3522	-0.0792	-0.0033	0.0229	0.0417	-0.2893
30	0.01	2.39	1.1939	0.1157	0.4206	0.0969	0.3523	-0.0743	-0.0048	0.0186	0.0646	-0.2509
31	0.01	3.12	1.1554	0.1140	0.3959	0.0987	0.3426	-0.0823	-0.0039	0.0220	0.0474	-0.2670
32	0.01	3.91	1.0724	0.1104	0.3660	0.1029	0.3413	-0.0857	-0.0041	0.0217	0.0478	-0.2537
33	0.01	4.67	1.0063	0.1062	0.3426	0.1055	0.3405	-0.0795	-0.0021	0.0229	0.0264	-0.2882
34	0.01	5.52	0.9415	0.1023	0.3179	0.1087	0.3377	-0.0756	-0.0021	0.0212	0.0278	-0.2805
35	0.01	6.32	0.8883	0.0967	0.2901	0.1089	0.3266	-0.0728	-0.0020	0.0240	0.0275	-0.3302
36	0.01	7.09	0.8219	0.0897	0.2619	0.1091	0.3186	-0.0729	-0.0020	0.0241	0.0274	-0.3307
37	0.02	7.90	0.7656	0.0831	0.2337	0.1085	0.3053	-0.0622	-0.0020	0.0235	0.0322	-0.3774
38	0.01	8.68	0.6941	0.0756	0.2093	0.1089	0.3015	-0.0738	-0.0014	0.0267	0.0190	-0.3619
39	0.01	9.53	0.6383	0.0672	0.1835	0.1053	0.2875	-0.0805	-0.0027	0.0251	0.0335	-0.3115
40	0.01	10.33	0.5622	0.0592	0.1598	0.1053	0.2843	-0.0836	-0.0039	0.0235	0.0467	-0.2816
41	0.01	11.13	0.4869	0.0508	0.1298	0.1043	0.2667	-0.0839	-0.0039	0.0236	0.0465	-0.2818
42	0.02	11.93	0.4308	0.0452	0.1060	0.1049	0.2462	-0.0807	-0.0042	0.0252	0.0520	-0.3124
43	0.01	12.73	0.3662	0.0369	0.0723	0.1008	0.1975	-0.0870	-0.0067	0.0228	0.0770	-0.2622
44	0.02	13.47	0.2891	0.0296	0.0503	0.1024	0.1741	-0.0962	-0.0091	0.0182	0.0946	-0.1897
45	0.02	14.27	0.2256	0.0210	0.0202	0.0931	0.0894	-0.1120	-0.0100	0.0112	0.0893	-0.0998
46	0.02	15.02	0.1752	0.0124	-0.0023	0.0708	-0.0132	-0.1054	-0.0099	0.0130	0.0939	-0.1231

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CWCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	85	1.01	1.7	0.0	BZWO16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	0.02	15.81	0.1025	0.0004	-0.0220	0.0039	-0.2151	-0.1121	-0.0102	0.0111	0.0910	-0.0994
48	0.02	16.56	0.0494	-0.0122	-0.0417	-0.2470	-0.8449	-0.1112	-0.0108	0.0079	0.0971	-0.0715
49	0.02	17.40	0.0099	-0.0264	-0.0623	-2.6667	-6.2930	-0.1145	-0.0108	0.0070	0.0943	-0.0615
50	0.02	18.24	-0.0716	-0.0381	-0.0859	0.5321	1.1991	-0.1142	-0.0128	0.0070	0.1121	-0.0617
51	0.02	19.07	-0.1468	-0.0440	-0.1135	0.2997	0.7733	-0.1050	-0.0141	0.0130	0.1343	-0.1239
52	0.02	19.86	-0.2249	-0.0484	-0.1415	0.2152	0.6293	-0.1050	-0.0141	0.0130	0.1343	-0.1239

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	86	1.05	1.7	0.0	B2M0F16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-20.01	0.1449	-0.4288	4.3476	-9.2743	-0.0100	0.8982	-2.9597		
2	0.01	-19.84	0.1575	-0.5094	4.2822	-9.2397	-0.0090	0.8869	-3.2349		
3	0.01	-19.03	0.1104	-0.3435	4.1528	-9.1604	-0.0170	0.8749	-3.1120		
4	0.0	-18.23	0.0913	-0.3928	4.0924	-9.2538	-0.0190	0.8783	-4.3025		
5	0.01	-17.35	0.1383	-0.4486	3.9011	-9.1590	-0.0100	0.8645	-3.2438		
6	0.01	-16.56	0.0949	-0.3678	3.8092	-9.2434	-0.0080	0.8612	-3.6823		
7	0.01	-15.78	0.1163	-0.3258	3.6637	-9.2677	0.0	0.8771	-2.6015		
8	0.01	-14.96	0.1053	-0.3534	3.5429	-9.2675	0.0030	0.8730	-3.3563		
9	0.01	-14.17	0.0901	-0.2731	3.4106	-9.3232	0.0110	0.8913	-3.0315		
10	0.01	-13.35	0.0933	-0.3766	3.3872	-9.6154	0.0150	0.9112	-4.0367		
11	0.01	-12.56	0.1058	-0.3721	3.3121	-9.6782	0.0130	0.9209	-3.5172		
12	0.01	-11.81	0.0899	-0.3048	3.2371	-9.8212	0.0160	0.9330	-3.3911		
13	0.0	-11.07	0.0755	-0.3377	3.1189	-9.8817	0.0160	0.9434	-4.4728		
14	0.01	-10.31	0.0848	-0.2917	3.1192	-9.9931	0.0140	0.9453	-3.4401		
15	0.01	-9.55	0.0899	-0.3088	3.0284	-9.9220	0.0160	0.9349	-3.4356		
16	0.01	-8.82	0.0582	-0.2744	2.8254	-9.8068	0.0100	0.9332	-4.7161		
17	0.01	-8.00	0.0663	-0.2748	2.7451	-9.6560	0.0130	0.9168	-4.1451		
18	0.01	-7.23	0.0732	-0.2614	2.6310	-9.4906	0.0070	0.8979	-3.5721		
19	0.01	-6.44	0.0687	-0.2801	2.5616	-9.4024	0.0100	0.8764	-4.0783		
20	0.01	-5.63	0.0564	-0.2349	2.4579	-9.1733	0.0080	0.8514	-4.1660		
21	0.01	-4.89	0.0561	-0.2525	2.3422	-9.0173	0.0060	0.8272	-4.5016		
22	0.01	-4.10	0.0601	-0.2671	2.2248	-8.7650	0.0060	0.8091	-4.4449		
23	0.01	-3.32	0.0700	-0.2780	2.1538	-8.6846	0.0010	0.7859	-3.9714		
24	0.01	-2.47	0.0654	-0.2955	2.0791	-8.4031	0.0030	0.7553	-4.5193		
25	0.01	-1.68	0.0663	-0.2418	1.9597	-8.1829	0.0010	0.7375	-3.6474		
26	0.01	-0.86	0.0575	-0.2485	1.8420	-7.8710	0.0090	0.7243	-4.3217		
27	0.01	-0.12	0.0644	-0.2768	1.8856	-8.3670	0.0120	0.7597	-4.2659		
28	0.01	0.66	0.0795	-0.3143	1.7835	-8.0507	-0.0020	0.7502	-4.0164		
29	0.01	1.39	0.0675	-0.2835	1.5930	-7.7235	0.0040	0.7374	-4.2000		
30	0.01	2.17	0.0678	-0.2819	1.4648	-7.3860	0.0040	0.7231	-4.1581		
31	0.01	2.97	0.0655	-0.2317	1.3413	-7.0092	0.0030	0.7026	-3.5374		
32	0.01	3.71	0.0735	-0.2389	1.1593	-6.6544	0.0020	0.6818	-3.2503		
33	0.01	4.50	0.0684	-0.2337	1.0216	-6.2606	0.0040	0.6519	-3.4175		
34	0.01	5.30	0.0415	-0.2231	0.9203	-5.9948	0.0040	0.6285	-5.3759		
35	0.01	6.17	0.0535	-0.2209	0.7644	-5.5526	0.0060	0.6022	-4.1290		
36	0.01	6.98	0.0366	-0.1842	0.7725	-5.3059	0.0040	0.5773	-5.0339		
37	0.01	7.79	0.0736	-0.2670	0.5876	-4.9561	0.0	0.5392	-3.6283		
38	0.01	8.53	0.0524	-0.2240	0.3281	-4.4998	0.0010	0.5032	-4.3301		
39	0.01	9.40	0.0719	-0.2496	0.1479	-4.0375	0.0	0.4619	-3.4723		
40	0.01	10.18	0.0548	-0.1747	0.0244	-3.7597	0.0030	0.4402	-3.1883		
41	0.01	11.02	0.0651	-0.2081	-0.1800	-3.3196	-0.0050	0.4022	-3.1972		
42	0.01	11.82	0.0437	-0.1662	-0.3005	-2.8779	-0.0110	0.3617	-3.8027		
43	0.01	12.57	0.0539	-0.1774	-0.4855	-2.5398	-0.0150	0.3214	-3.2924		
44	0.02	13.35	0.0761	-0.1905	-0.6796	-2.1471	-0.0130	0.2948	-2.5038		
45	0.02	14.09	0.0632	-0.1635	-0.8865	-1.8690	-0.0290	0.2807	-2.5867		
46	0.02	14.90	0.0567	-0.1204	-1.0634	-1.4939	-0.0260	0.2411	-2.1231		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	86	1.05 1.7	0.0	82WUF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	15.63	0.0403	-0.1234	-1.2693	-1.2135	-0.0320	0.2057	-3.0625		
48	0.02	16.46	0.0507	-0.1022	-1.5032	-0.7501	-0.0310	0.1710	-1.7407		
49	0.01	17.23	0.0462	-0.1487	-1.6584	-0.4319	-0.0440	0.1343	-3.2182		
50	0.02	18.10	0.0093	0.0410	-1.9110	-0.1312	-0.0210	0.0962	4.4065		
51	0.01	18.92	0.0061	-0.0365	-2.1104	0.2299	-0.0350	0.0645	-5.9902		
52	0.02	19.73	0.0018	0.0025	-2.3491	0.6551	-0.0280	0.0162	1.3778		
53	0.02	20.12	-0.0466	0.1452	-2.4493	0.8933	-0.0290	0.0059	-3.1167		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	86	1.05	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	0.01	-20.01	-0.2502	0.0082	0.7879	-0.0318	-3.0514	0.0579	0.0058	0.0005	0.1002	0.0085
2	0.01	-19.84	-0.2639	0.0093	0.7800	-0.0352	-2.9555	0.0635	0.0066	-0.0021	0.1039	-0.0337
3	0.01	-19.03	-0.2724	0.0102	0.7734	-0.0374	-2.8393	0.0582	0.0059	-0.0011	0.1014	-0.0190
4	0.0	-18.23	-0.2716	0.0110	0.7685	-0.0405	-2.8295	0.0620	0.0071	-0.0007	0.1145	-0.0119
5	0.01	-17.35	-0.2771	0.0123	0.7599	-0.0444	-2.7422	0.0567	0.0054	-0.0046	0.0952	-0.0812
6	0.01	-16.56	-0.2788	0.0135	0.7500	-0.0484	-2.6901	0.0435	0.0016	-0.0123	0.0368	-0.2829
7	0.01	-15.78	-0.2812	0.0139	0.7513	-0.0494	-2.6718	0.0362	0.0005	-0.0131	0.0138	-0.3629
8	0.01	-14.96	-0.2774	0.0147	0.7461	-0.0530	-2.6895	0.0409	0.0022	-0.0079	0.0538	-0.1705
9	0.01	-14.17	-0.2778	0.0156	0.7447	-0.0562	-2.6808	0.0303	-0.0007	-0.0146	-0.0231	-0.4820
10	0.01	-13.35	-0.2699	0.0195	0.7536	-0.0574	-2.7920	0.0277	0.0005	-0.0151	0.0181	-0.5440
11	0.01	-12.56	-0.2666	0.0161	0.7617	-0.0604	-2.8570	0.0347	0.0014	-0.0076	0.0403	-0.2201
12	0.01	-11.81	-0.2691	0.0166	0.7650	-0.0617	-2.8429	0.0237	-0.0001	-0.0140	-0.0042	-0.5908
13	0.0	-11.07	-0.2639	0.0171	0.7665	-0.0648	-2.9044	0.0332	0.0004	-0.0116	0.0120	-0.3505
14	0.01	-10.31	-0.2643	0.0177	0.7667	-0.0669	-2.8985	0.0327	-0.0004	-0.0094	-0.0122	-0.2876
15	0.01	-9.55	-0.2677	0.0187	0.7616	-0.0699	-2.8450	0.0305	-0.0001	-0.0109	-0.0033	-0.3586
16	0.01	-8.82	-0.2770	0.0198	0.7543	-0.0715	-2.7231	0.0321	0.0	-0.0073	0.0	-0.2275
17	0.01	-8.00	-0.2834	0.0207	0.7425	-0.0730	-2.6199	0.0289	0.0	-0.0099	0.0	-0.3419
18	0.01	-7.23	-0.2856	0.0221	0.7316	-0.0774	-2.5617	0.0344	-0.0004	-0.0064	-0.0116	-0.1871
19	0.01	-6.44	-0.2966	0.0235	0.7166	-0.0792	-2.4159	0.0325	-0.0001	-0.0090	-0.0031	-0.2760
20	0.01	-5.63	-0.3112	0.0255	0.6993	-0.0819	-2.2471	0.0361	-0.0003	-0.0084	-0.0083	-0.2319
21	0.01	-4.89	-0.3207	0.0264	0.6839	-0.0823	-2.1326	0.0327	-0.0001	-0.0102	-0.0031	-0.3120
22	0.01	-4.10	-0.3318	0.0276	0.6703	-0.0832	-2.0203	0.0320	0.0	-0.0072	0.0	-0.2262
23	0.01	-3.32	-0.3440	0.0288	0.6547	-0.0837	-1.9031	0.0378	0.0013	-0.0053	0.0344	-0.1403
24	0.01	-2.47	-0.3619	0.0325	0.6306	-0.0898	-1.7425	0.0309	0.0004	-0.0078	0.0129	-0.2525
25	0.01	-1.68	-0.3692	0.0344	0.6206	-0.0912	-1.6809	0.0322	0.0001	-0.0080	0.0031	-0.2475
26	0.01	-0.86	-0.3841	0.0391	0.6008	-0.1018	-1.5642	0.0357	0.0007	-0.0069	0.0196	-0.1934
27	0.01	-0.12	-0.3548	0.0585	0.6469	-0.1649	-1.8232	0.0323	-0.0001	-0.0082	-0.0031	-0.2550
28	0.01	0.66	-0.3790	0.0580	0.6139	-0.1530	-1.6198	0.0424	0.0024	-0.0035	0.0566	-0.0819
29	0.01	1.39	-0.3928	0.0582	0.5877	-0.1482	-1.4962	0.0371	0.0008	-0.0071	0.0216	-0.1924
30	0.01	2.17	-0.4115	0.0573	0.5594	-0.1392	-1.3594	0.0448	0.0027	-0.0026	0.0603	-0.0574
31	0.01	2.97	-0.4300	0.0566	0.5245	-0.1316	-1.2198	0.0320	0.0006	-0.0069	0.0187	-0.2168
32	0.01	3.71	-0.4552	0.0554	0.4991	-0.1217	-1.0965	0.0393	0.0013	-0.0057	0.0331	-0.1452
33	0.01	4.50	-0.4793	0.0534	0.4627	-0.1114	-0.9653	0.0418	0.0015	-0.0056	0.0359	-0.1333
34	0.01	5.30	-0.5030	0.0511	0.4312	-0.1016	-0.8572	0.0418	0.0017	-0.0056	0.0407	-0.1333
35	0.01	6.17	-0.5299	0.0476	0.3989	-0.0898	-0.7528	0.0488	0.0027	-0.0030	0.0553	-0.0623
36	0.01	6.98	-0.5509	0.0453	0.3707	-0.0822	-0.6730	0.0373	0.0005	-0.0072	0.0134	-0.1923
37	0.01	7.79	-0.5823	0.0406	0.3343	-0.0697	-0.5740	0.0538	0.0031	-0.0022	0.0576	-0.0404
38	0.01	8.53	-0.6201	0.0361	0.3021	-0.0582	-0.4871	0.0492	0.0018	-0.0040	0.0366	-0.0814
39	0.01	9.40	-0.6678	0.0316	0.2652	-0.0473	-0.3971	0.0514	0.0029	-0.0024	0.0564	-0.0462
40	0.01	10.18	-0.7146	0.0275	0.2342	-0.0385	-0.3277	0.0441	0.0024	-0.0031	0.0489	-0.0639
41	0.01	11.02	-0.7696	0.0228	0.2034	-0.0296	-0.2642	0.0362	0.0033	-0.0004	0.0587	-0.0066
42	0.01	11.82	-0.8317	0.0166	0.1727	-0.0200	-0.2076	0.0612	0.0040	0.0002	0.0654	0.0031
43	0.01	12.57	-0.8921	0.0102	0.1494	-0.0114	-0.1675	0.0639	0.0039	-0.0001	0.0610	-0.0017
44	0.02	13.35	-0.9483	0.0013	0.1254	-0.0014	-0.1322	0.0723	0.0058	0.0074	0.0802	0.1022
45	0.02	14.09	-1.0124	-0.0097	0.0993	0.0096	-0.0980	0.0701	0.0055	0.0061	0.0785	0.0864
46	0.02	14.90	-1.0850	-0.0211	0.0750	0.0198	-0.0704	0.0662	0.0044	0.0018	0.0669	0.0268

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		86	1.05 1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.63	-1.1227	-0.0347	0.0562	0.0309	-0.0501	0.0640	0.0055	0.0053	0.0859	0.0832
48	0.02	16.46	-1.1989	-0.0451	0.0301	0.0376	-0.0251	0.0665	0.0064	0.0057	0.0962	0.0851
49	0.01	17.23	-1.2592	-0.0510	0.0040	0.0405	-0.0032	0.0649	0.0071	0.0070	0.1094	0.1083
50	0.02	18.10	-1.3106	-0.0566	-0.0193	0.0432	0.0147	0.0540	0.0062	0.0048	0.1168	0.0880
51	0.01	18.92	-1.3782	-0.0612	-0.0475	0.0444	0.0345	0.0548	0.0070	0.0073	0.1277	0.1325
52	0.02	19.73	-1.4347	-0.0655	-0.0757	0.0457	0.0247	0.0533	0.0066	0.0082	0.1230	0.1531
53	0.02	20.12	-1.4511	-0.0672	-0.0813	0.0463	0.0560	0.0570	0.0066	0.0094	0.1158	0.1648

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	86	1.05	1.7	0.0	D2WOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-20.01	1.6584	0.0576	0.6047	0.0347	0.3646	-0.1155	-0.0125	0.0135	0.1082	-0.1170
2	0.01	-19.84	1.6596	0.0568	0.6030	0.0342	0.3633	-0.0919	-0.0112	0.0120	0.1219	-0.1303
3	0.01	-19.03	1.6407	0.0581	0.5655	0.0354	0.3632	-0.1074	-0.0135	0.0084	0.1257	-0.0783
4	0.0	-18.23	1.6444	0.0582	0.5964	0.0354	0.3627	-0.1179	-0.0139	0.0096	0.1179	-0.0815
5	0.01	-17.35	1.6293	0.0591	0.5891	0.0363	0.3616	-0.1049	-0.0125	0.0127	0.1148	-0.1167
6	0.01	-16.56	1.6121	0.0601	0.5849	0.0373	0.3628	-0.1030	-0.0112	0.0151	0.1087	-0.1464
7	0.01	-15.78	1.6175	0.0608	0.5829	0.0376	0.3604	-0.1023	-0.0120	0.0126	0.1173	-0.1233
8	0.01	-14.96	1.5838	0.0617	0.5701	0.0390	0.3600	-0.1030	-0.0112	0.0151	0.1087	-0.1464
9	0.01	-14.17	1.5846	0.0620	0.5756	0.0391	0.3633	-0.1007	-0.0101	0.0183	0.1003	-0.1822
10	0.01	-13.35	1.6067	0.0625	0.5783	0.0389	0.3599	-0.0928	-0.0106	0.0145	0.1142	-0.1560
11	0.01	-12.56	1.6051	0.0638	0.5820	0.0397	0.3626	-0.0872	-0.0088	0.0179	0.1009	-0.2058
12	0.01	-11.81	1.6197	0.0646	0.5876	0.0399	0.3628	-0.0968	-0.0105	0.0167	0.1085	-0.1730
13	0.0	-11.07	1.6199	0.0653	0.5861	0.0403	0.3618	-0.0836	-0.0093	0.0169	0.1112	-0.2027
14	0.01	-10.31	1.6174	0.0658	0.5866	0.0407	0.3627	-0.0961	-0.0108	0.0149	0.1124	-0.1548
15	0.01	-9.55	1.6053	0.0661	0.5847	0.0412	0.3642	-0.0868	-0.0093	0.0173	0.1071	-0.1990
16	0.01	-8.82	1.6041	0.0667	0.5783	0.0416	0.3605	-0.0901	-0.0093	0.0177	0.1032	-0.1962
17	0.01	-8.00	1.5770	0.0670	0.5723	0.0425	0.3629	-0.0901	-0.0093	0.0177	0.1032	-0.1962
18	0.01	-7.23	1.5665	0.0674	0.5605	0.0430	0.3578	-0.0837	-0.0085	0.0187	0.1016	-0.2235
19	0.01	-6.44	1.5318	0.0682	0.5505	0.0445	0.3594	-0.0839	-0.0085	0.0192	0.1013	-0.2294
20	0.01	-5.63	1.5011	0.0696	0.5371	0.0464	0.3578	-0.0810	-0.0076	0.0207	0.0938	-0.2557
21	0.01	-4.89	1.4711	0.0719	0.5307	0.0489	0.3607	-0.0837	-0.0085	0.0192	0.1016	-0.2295
22	0.01	-4.10	1.4374	0.0731	0.5145	0.0509	0.3582	-0.0846	-0.0065	0.0216	0.0768	-0.2554
23	0.01	-3.32	1.4117	0.0742	0.5063	0.0526	0.3586	-0.0920	-0.0057	0.0237	0.0620	-0.2581
24	0.01	-2.47	1.3675	0.0739	0.4871	0.0540	0.3522	-0.0828	-0.0045	0.0262	0.0543	-0.3165
25	0.01	-1.68	1.3285	0.0757	0.4711	0.0570	0.3546	-0.0875	-0.0070	0.0196	0.0800	-0.2245
26	0.01	-0.86	1.2830	0.0789	0.4540	0.0615	0.3539	-0.0859	-0.0044	0.0248	0.0512	-0.2884
27	0.01	0.12	1.3647	0.1060	0.4534	0.0777	0.3616	-0.0650	-0.0050	0.0217	0.0588	-0.2550
28	0.01	0.66	1.3275	0.1046	0.4692	0.0788	0.3535	-0.0794	-0.0037	0.0246	0.0466	-0.3104
29	0.01	1.39	1.2734	0.1023	0.4470	0.0803	0.3510	-0.0795	-0.0037	0.0252	0.0465	-0.3171
30	0.01	2.17	1.2275	0.1005	0.4190	0.0819	0.3414	-0.0794	-0.0037	0.0246	0.0466	-0.3104
31	0.01	2.97	1.1695	0.0972	0.3924	0.0831	0.3355	-0.0896	-0.0045	0.0252	0.0502	-0.2817
32	0.01	3.71	1.0965	0.0943	0.3659	0.0860	0.3337	-0.0862	-0.0045	0.0249	0.0522	-0.2886
33	0.01	4.50	1.0254	0.0917	0.3407	0.0894	0.3322	-0.0862	-0.0045	0.0249	0.0522	-0.2886
34	0.01	5.30	0.9579	0.0885	0.3146	0.0924	0.3284	-0.0795	-0.0039	0.0247	0.0491	-0.3108
35	0.01	6.17	0.8762	0.0836	0.2829	0.0954	0.3228	-0.0761	-0.0037	0.0237	0.0486	-0.3120
36	0.01	6.98	0.8148	0.0799	0.2594	0.0981	0.3184	-0.0857	-0.0039	0.0218	0.0455	-0.2549
37	0.01	7.79	0.7532	0.0738	0.2345	0.0980	0.3113	-0.0670	-0.0021	0.0269	0.0313	-0.4011
38	0.01	8.53	0.6772	0.0664	0.2056	0.0981	0.3035	-0.0803	-0.0038	0.0266	0.0473	-0.3318
39	0.01	9.40	0.6168	0.0602	0.1774	0.0976	0.2977	-0.0651	-0.0020	0.0326	0.0307	-0.5009
40	0.01	10.18	0.5437	0.0540	0.1507	0.0993	0.2771	-0.0605	-0.0039	0.0285	0.0645	-0.4717
41	0.01	11.02	0.4756	0.0479	0.1216	0.1007	0.2556	-0.0769	-0.0078	0.0276	0.1014	-0.3586
42	0.01	11.82	0.4031	0.0402	0.0927	0.0997	0.2300	-0.0871	-0.0087	0.0276	0.0999	-0.3166
43	0.01	12.57	0.3371	0.0329	0.0699	0.0976	0.2074	-0.0820	-0.0094	0.0210	0.1146	-0.2558
44	0.02	13.35	0.2713	0.0243	0.0456	0.0896	0.1681	-0.0797	-0.0087	0.0249	0.1092	-0.3130
45	0.02	14.09	0.2235	0.0147	0.0238	0.0658	0.1064	-0.0879	-0.0094	0.0175	0.1069	-0.1992
46	0.02	14.90	0.1660	0.0025	0.0018	0.0151	0.0109	-0.1002	-0.0089	0.0123	0.0888	-0.1229

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	86	1.05	1.7	0.0	B2W0F16	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	15.63	0.1054	-0.0092	-0.0211	-0.0873	-0.2000	-0.1100	-0.0089	0.0110	0.0809	-0.1004
48	0.02	16.46	0.0514	-0.0217	-0.0456	-0.4222	-0.8866	-0.0976	-0.0087	0.0145	0.0891	-0.1483
49	0.01	17.23	-0.0133	-0.0304	-0.0670	2.2857	5.0400	-0.1168	-0.0107	0.0112	0.0916	-0.0957
50	0.02	18.10	-0.0838	-0.0373	-0.0562	0.4451	1.1483	-0.0960	-0.0099	0.0209	0.1031	-0.2178
51	0.01	18.92	-0.1293	-0.0433	-0.1178	0.3349	0.9109	-0.1229	-0.0161	0.0089	0.1310	-0.0728
52	0.02	19.73	-0.2060	-0.0492	-0.1411	0.2388	0.6852	-0.1003	-0.0133	0.0124	0.1326	-0.1234
53	0.02	20.12	-0.2440	-0.0509	-0.1575	0.2086	0.6455	-0.1215	-0.0141	0.0148	0.1160	-0.1219

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION
6	87	1.10 1.7	0.0	0.2	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP	
1	0.01	-19.95	0.1149	-0.3298	4.5781	-9.7589	-0.0230	0.9684	-2.6708	
2	0.02	-19.66	0.1425	-0.3305	4.6032	-9.7470	-0.0150	0.9702	-2.3193	
3	0.01	-18.89	0.1589	-0.4244	4.3920	-9.7144	-0.0270	0.9783	-2.6712	
4	0.0	-18.10	0.0806	-0.3418	4.2400	-9.7296	-0.0270	0.9901	-4.2412	
5	0.01	-17.20	0.1186	-0.3870	4.1414	-9.7054	-0.0140	0.9462	-3.2634	
6	0.01	-16.44	0.1031	-0.3083	3.9448	-9.7041	-0.0180	0.9551	-2.9907	
7	0.02	-15.61	0.0951	-0.1901	3.8679	-9.8375	-0.0020	0.9631	-1.9994	
8	0.02	-14.84	0.0697	-0.1676	3.7146	-9.8558	0.0030	0.9660	-2.4043	
9	0.01	-13.99	0.0391	-0.1757	3.5831	-9.8877	-0.0060	0.9557	-4.4946	
10	0.01	-13.20	0.0567	-0.2214	3.4190	-9.8809	0.0040	0.9645	-3.9044	
11	0.01	-12.38	0.0544	-0.2181	3.3476	-9.9059	0.0050	0.9584	-4.0103	
12	0.01	-11.66	0.0564	-0.1859	3.2579	-9.9173	0.0150	0.9474	-3.2972	
13	0.01	-10.87	0.0347	-0.2216	3.1447	-9.7649	0.0170	0.9358	-6.3856	
14	0.01	-10.15	0.0474	-0.1773	2.9584	-9.6711	0.0140	0.9364	-3.7418	
15	0.01	-9.35	0.0459	-0.1862	2.8960	-9.5577	0.0190	0.9147	-4.0579	
16	0.01	-8.60	0.0475	-0.1765	2.7744	-9.4075	0.0150	0.8973	-3.7158	
17	0.01	-7.82	0.0498	-0.1797	2.7286	-9.2984	0.0180	0.8944	-3.6088	
18	0.01	-7.00	0.0534	-0.2147	2.6199	-9.3101	0.0140	0.8877	-4.0217	
19	0.02	-6.23	0.0661	-0.1635	2.4337	-9.0354	0.0040	0.8624	-2.4741	
20	0.01	-5.43	0.0450	-0.1890	2.3213	-8.8081	0.0110	0.8348	-4.2000	
21	0.02	-4.69	0.0582	-0.1565	2.3547	-8.7878	0.0030	0.8069	-2.6887	
22	0.01	-3.90	0.0484	-0.1457	2.2338	-8.5386	0.0070	0.7893	-3.0116	
23	0.01	-3.08	0.0493	-0.1850	2.0474	-8.1827	0.0050	0.7619	-3.7529	
24	0.01	-2.30	0.0744	-0.2171	1.9329	-7.9574	0.0060	0.7445	-2.9188	
25	0.01	-1.48	0.0228	-0.1179	1.9207	-8.0253	0.0040	0.7515	-5.1719	
26	0.01	-0.71	0.0343	-0.1310	1.9060	-8.1897	0.0130	0.7681	-3.8198	
27	0.01	0.09	0.0214	-0.1119	1.7642	-7.8851	0.0100	0.7611	-5.2318	
28	0.01	0.83	0.0682	-0.2294	1.7025	-7.6768	0.0010	0.7499	-3.3648	
29	0.01	1.61	0.0345	-0.1433	1.4817	-7.2737	0.0120	0.7423	-4.1536	
30	0.01	2.39	0.0617	-0.2184	1.3438	-6.9967	0.0010	0.7236	-3.5394	
31	0.02	3.17	0.0886	-0.1880	1.1330	-6.5525	0.0030	0.7021	-2.1223	
32	0.01	3.91	0.0534	-0.1637	1.1529	-6.3655	0.0010	0.6929	-3.0667	
33	0.01	4.72	0.0392	-0.1369	0.9564	-5.8783	0.0070	0.6727	-3.4918	
34	0.01	5.53	0.0313	-0.1218	0.8413	-5.5342	0.0030	0.6512	-3.8920	
35	0.01	6.38	0.0338	-0.1273	0.7378	-5.3424	0.0030	0.6202	-3.7669	
36	0.01	7.16	0.0248	-0.0587	0.5186	-4.7396	0.0070	0.5698	-2.3677	
37	0.01	7.94	0.0186	-0.0590	0.5496	-4.6550	0.0030	0.5640	-3.1742	
38	0.02	8.78	0.0237	-0.0352	0.2572	-4.0695	0.0040	0.5210	-1.4844	
39	0.02	9.56	0.0553	-0.1064	0.1244	-3.7724	-0.0050	0.5091	-1.9244	
40	0.01	10.42	0.0278	-0.0569	-0.0065	-3.4589	-0.0010	0.4684	-2.0475	
41	0.01	11.17	-0.0136	0.0408	-0.2331	-3.0403	-0.0040	0.4344	-2.9441	
42	0.02	11.95	-0.0123	0.0562	-0.3712	-2.6920	-0.0090	0.4044	-4.5707	
43	0.02	12.77	0.0109	0.0167	-0.5729	-2.2465	-0.0090	0.3715	1.5358	
44	0.01	13.51	-0.0059	-0.0037	-0.5781	-2.1742	-0.0210	0.3707	0.6339	
45	0.02	14.29	0.0112	0.0953	-1.0143	-1.6316	-0.0160	0.3183	8.5107	
46	0.02	15.04	0.0330	-0.0362	-1.1269	-1.4710	-0.0320	0.3054	-1.0970	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION
6		87	1.10 1.7	0.0	02WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	15.86	0.0217	0.0776	-1.3012	-1.1679	-0.0210	0.2717	3.5770		
48	0.01	16.63	0.0357	-0.0930	-1.4323	-0.7834	-0.0350	0.2447	-2.6045		
49	0.02	17.42	0.0071	0.0860	-1.7976	-0.3660	-0.0360	0.1833	12.1211		
50	0.01	18.28	0.0204	-0.0416	-1.9255	-0.1449	-0.0420	0.1731	-2.0373		
51	0.01	19.11	0.0331	-0.1133	-2.2743	0.3167	-0.0480	0.1175	-3.4242		
52	0.02	19.90	-0.0211	0.0775	-2.6185	0.6462	-0.0340	0.0647	-3.6749		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	87	1.10 1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-19.95	-0.2216	0.0030	0.8317	-0.0135	-3.7530	0.0436	0.0061	0.0091	0.1399	0.2094
2	0.02	-19.66	-0.2185	0.0031	0.8272	-0.0142	-3.7858	0.0611	0.0113	0.0153	0.1849	0.2497
3	0.01	-18.89	-0.2258	0.0040	0.8204	-0.0177	-3.6331	0.0557	0.0081	0.0059	0.1454	0.1052
4	0.0	-18.10	-0.2266	0.0054	0.8152	-0.0218	-3.5975	0.0517	0.0078	0.0067	0.1509	0.1301
5	0.01	-17.20	-0.2368	0.0074	0.7963	-0.0313	-3.3627	0.0343	0.0022	-0.0049	0.0641	-0.1420
6	0.01	-16.44	-0.2365	0.0078	0.7952	-0.0330	-3.3623	0.0317	0.0015	-0.0043	0.0473	-0.1368
7	0.02	-15.61	-0.2362	0.0086	0.7993	-0.0364	-3.3840	0.0144	-0.0027	-0.0108	-0.1875	-0.7501
8	0.02	-14.84	-0.2383	0.0095	0.8002	-0.0399	-3.3579	0.0140	-0.0022	-0.0093	-0.1571	-0.6668
9	0.01	-13.99	-0.2404	0.0114	0.7889	-0.0474	-3.2416	0.0132	-0.0035	-0.0121	-0.0379	-0.9168
10	0.01	-13.20	-0.2384	0.0118	0.7947	-0.0495	-3.3333	0.0172	-0.0033	-0.0073	-0.0174	-0.4226
11	0.01	-12.38	-0.2406	0.0132	0.7905	-0.0549	-3.2857	0.0156	-0.0002	-0.0061	-0.0128	-0.3911
12	0.01	-11.66	-0.2413	0.0142	0.7813	-0.0588	-3.2379	0.0031	-0.0015	-0.0120	-0.4839	-3.8603
13	0.01	-10.87	-0.2444	0.0155	0.7728	-0.0634	-3.1619	0.0024	-0.0009	-0.0148	-0.3750	-6.1668
14	0.01	-10.15	-0.2504	0.0165	0.7661	-0.0659	-3.0594	0.0086	-0.0010	-0.0086	-0.1163	-1.0040
15	0.01	-9.35	-0.2555	0.0180	0.7536	-0.0705	-2.9494	0.0028	-0.0014	-0.0108	-0.5000	-3.8454
16	0.01	-8.60	-0.2675	0.0193	0.7362	-0.0721	-2.7520	0.0015	-0.0011	-0.0146	0.7533	9.7332
17	0.01	-7.82	-0.2697	0.0204	0.7316	-0.0756	-2.7128	0.0116	-0.0023	-0.0045	-0.1983	-0.3909
18	0.01	-7.00	-0.2843	0.0227	0.7185	-0.0798	-2.5271	0.0088	-0.0012	-0.0094	-0.1364	-1.0645
19	0.02	-6.23	-0.2982	0.0240	0.7076	-0.0805	-2.3730	0.0146	-0.0021	-0.0064	-0.1438	-0.4408
20	0.01	-5.43	-0.3099	0.0254	0.6886	-0.0820	-2.2221	0.0123	-0.0019	-0.0075	-0.1545	-0.6099
21	0.02	-4.69	-0.3231	0.0268	0.6713	-0.0829	-2.0778	0.0085	-0.0016	-0.0080	-0.1882	-0.9374
22	0.01	-3.90	-0.3321	0.0288	0.6540	-0.0867	-1.9694	0.0049	-0.0016	-0.0090	-0.3265	-1.8301
23	0.01	-3.08	-0.3537	0.0325	0.6352	-0.0919	-1.7960	0.0124	-0.0008	-0.0082	-0.0645	-0.6587
24	0.01	-2.30	-0.3584	0.0355	0.6218	-0.0991	-1.7349	0.0140	0.0003	-0.0048	0.0214	-0.3454
25	0.01	-1.48	-0.3637	0.0408	0.6132	-0.1063	-1.5982	0.0035	-0.0014	-0.0085	-0.4000	-2.4382
26	0.01	-0.71	-0.3686	0.0543	0.6399	-0.1558	-1.8357	0.0029	-0.0027	-0.0109	-0.9310	-3.7702
27	0.01	0.09	-0.3579	0.0537	0.6138	-0.1500	-1.7151	0.0081	-0.0008	-0.0063	-0.0988	-0.7779
28	0.01	0.83	-0.3736	0.0534	0.5848	-0.1429	-1.5653	0.0138	0.0005	-0.0038	0.0362	-0.2753
29	0.01	1.61	-0.3877	0.0523	0.5595	-0.1349	-1.4432	0.0049	-0.0018	-0.0090	-0.3673	-1.8301
30	0.01	2.39	-0.4086	0.0516	0.5257	-0.1263	-1.2867	0.0149	0.0010	-0.0030	0.0671	-0.2037
31	0.02	3.17	-0.4407	0.0496	0.4893	-0.1125	-1.1102	0.0237	0.0019	-0.0025	0.0802	-0.1056
32	0.01	3.91	-0.4596	0.0486	0.4628	-0.1057	-1.0069	0.0155	0.0005	-0.0054	0.0323	-0.3507
33	0.01	4.72	-0.4832	0.0461	0.4331	-0.0954	-0.8963	0.0239	0.0034	0.0020	0.1423	0.0822
34	0.01	5.53	-0.5122	0.0441	0.3996	-0.0861	-0.7802	0.0145	0.0017	-0.0017	0.1172	-0.1151
35	0.01	6.38	-0.5417	0.0424	0.3729	-0.0783	-0.6884	0.0181	0.0021	-0.0005	0.1160	-0.0259
36	0.01	7.16	-0.5813	0.0400	0.3341	-0.0688	-0.5748	0.0012	-0.0020	-0.0094	-1.6667	-7.8334
37	0.01	7.94	-0.6099	0.0372	0.3095	-0.0610	-0.5074	0.0120	-0.0006	-0.0067	-0.0500	-0.5585
38	0.02	8.78	-0.6499	0.0338	0.2779	-0.0520	-0.4277	0.0134	0.0010	-0.0029	0.0735	-0.2109
39	0.02	9.56	-0.6865	0.0302	0.2475	-0.0440	-0.3606	0.0283	0.0046	0.0053	0.1625	0.1883
40	0.01	10.42	-0.7337	0.0276	0.2162	-0.0376	-0.2947	0.0136	0.0006	-0.0027	0.0441	-0.1962
41	0.01	11.17	-0.7929	0.0230	0.1840	-0.0290	-0.2321	0.0131	-0.0006	-0.0059	-0.0458	-0.4530
42	0.02	11.95	-0.8576	0.0169	0.1562	-0.0197	-0.1822	0.0142	-0.0006	-0.0051	-0.0423	-0.3569
43	0.02	12.77	-0.9020	0.0113	0.1349	-0.0125	-0.1496	0.0234	0.0010	-0.0003	0.0427	-0.0129
44	0.01	13.51	-0.9751	0.0	0.1054	0.0	-0.1081	0.0309	0.0013	0.0012	0.0421	0.0387
45	0.02	14.29	-1.0276	-0.0102	0.0860	0.0049	-0.0837	0.0326	0.0024	0.0049	0.0736	0.1492
46	0.02	15.04	-1.0799	-0.0223	0.0649	0.0207	-0.0601	0.0420	0.0026	0.0094	0.0619	0.2237

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		87		1.10 1.7		0.0	82NOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	15.86	-1.1502	-0.0354	0.0410	0.0308	-0.0357	0.0264	-0.0012	-0.0008	-0.0455	-0.0304	
48	0.01	16.63	-1.2103	-0.0432	0.0170	0.0357	-0.0141	0.0411	0.0006	0.0084	0.0146	0.2043	
49	0.02	17.42	-1.2663	-0.0496	-0.0082	0.0392	0.0064	0.0320	-0.0009	0.0031	-0.0281	0.0957	
50	0.01	18.28	-1.3179	-0.0541	-0.0344	0.0411	0.0261	0.0403	0.0001	0.0061	0.0025	0.1521	
51	0.01	19.11	-1.3759	-0.0565	-0.0623	0.0411	0.0453	0.0432	0.0016	0.0106	0.0370	0.2453	
52	0.02	19.90	-1.4261	-0.0597	-0.0862	0.0419	0.0604	0.0233	0.0003	0.0011	0.0129	0.0457	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	87	1.10	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	0.01	-19.95	1.7324	0.0522	0.6430	0.0301	0.3711	-0.1236	-0.0164	0.0037	0.1327	-0.0301
2	0.02	-19.66	1.7402	0.0523	0.6471	0.0301	0.3718	-0.1048	-0.0140	0.0081	0.1336	-0.0771
3	0.01	-18.89	1.7257	0.0530	0.6437	0.0307	0.3730	-0.1049	-0.0134	0.0081	0.1277	-0.0777
4	0.0	-18.10	1.7235	0.0544	0.6421	0.0316	0.3726	-0.1173	-0.0163	0.0054	0.1390	-0.0462
5	0.01	-17.20	1.7058	0.0552	0.6364	0.0324	0.3731	-0.0995	-0.0126	0.0122	0.1266	-0.1231
6	0.01	-16.44	1.7096	0.0559	0.6308	0.0327	0.3690	-0.1118	-0.0140	0.0083	0.1252	-0.0747
7	0.02	-15.61	1.6997	0.0575	0.6319	0.0338	0.3718	-0.1116	-0.0142	0.0077	0.1272	-0.0691
8	0.02	-14.84	1.6956	0.0576	0.6245	0.0340	0.3683	-0.1117	-0.0144	0.0077	0.1289	-0.0688
9	0.01	-13.99	1.6854	0.0586	0.6210	0.0348	0.3685	-0.1175	-0.0167	0.0054	0.1421	-0.0464
10	0.01	-13.20	1.6787	0.0593	0.6196	0.0353	0.3691	-0.0994	-0.0132	0.0117	0.1328	-0.1175
11	0.01	-12.38	1.6659	0.0603	0.6137	0.0362	0.3684	-0.0832	-0.0107	0.0128	0.1286	-0.1536
12	0.01	-11.66	1.6531	0.0610	0.6065	0.0369	0.3669	-0.0826	-0.0113	0.0109	0.1368	-0.1317
13	0.01	-10.87	1.6329	0.0618	0.6027	0.0378	0.3691	-0.0860	-0.0121	0.0113	0.1407	-0.1319
14	0.01	-10.15	1.6217	0.0627	0.5922	0.0387	0.3652	-0.0832	-0.0107	0.0128	0.1286	-0.1536
15	0.01	-9.35	1.6042	0.0631	0.5856	0.0393	0.3651	-0.0809	-0.0102	0.0161	0.1261	-0.1995
16	0.01	-8.60	1.5677	0.0637	0.5736	0.0406	0.3659	-0.0802	-0.0113	0.0143	0.1409	-0.1780
17	0.01	-7.82	1.5534	0.0644	0.5664	0.0415	0.3646	-0.0706	-0.0094	0.0155	0.1331	-0.2192
18	0.01	-7.00	1.5305	0.0652	0.5597	0.0426	0.3657	-0.0707	-0.0094	0.0155	0.1330	-0.2198
19	0.02	-6.23	1.5140	0.0679	0.5463	0.0448	0.3608	-0.0641	-0.0096	0.0153	0.1141	-0.1816
20	0.01	-5.43	1.4743	0.0692	0.5346	0.0469	0.3626	-0.0743	-0.0089	0.0159	0.1198	-0.2144
21	0.02	-4.69	1.4502	0.0721	0.5247	0.0497	0.3618	-0.0743	-0.0087	0.0159	0.1171	-0.2146
22	0.01	-3.90	1.4065	0.0711	0.5081	0.0506	0.3612	-0.0881	-0.0089	0.0169	0.1010	-0.1923
23	0.01	-3.08	1.3562	0.0726	0.4951	0.0535	0.3651	-0.0820	-0.0075	0.0186	0.0915	-0.2265
24	0.01	-2.30	1.3247	0.0741	0.4859	0.0559	0.3668	-0.0726	-0.0056	0.0205	0.0771	-0.2825
25	0.01	-1.48	1.3079	0.0827	0.4802	0.0632	0.3672	-0.0717	-0.0068	0.0174	0.0948	-0.2428
26	0.01	-0.71	1.3425	0.0992	0.4938	0.0739	0.3679	-0.0874	-0.0087	0.0139	0.0995	-0.1588
27	0.01	0.09	1.2944	0.0973	0.4729	0.0749	0.3639	-0.0816	-0.0068	0.0162	0.0833	-0.1986
28	0.01	0.83	1.2507	0.0953	0.4524	0.0762	0.3617	-0.0721	-0.0056	0.0181	0.0777	-0.2507
29	0.01	1.61	1.1953	0.0919	0.4242	0.0769	0.3599	-0.0825	-0.0057	0.0187	0.0691	-0.2268
30	0.01	2.39	1.1591	0.0906	0.4022	0.0782	0.3670	-0.0692	-0.0057	0.0195	0.0824	-0.2824
31	0.02	3.17	1.0778	0.0877	0.3728	0.0814	0.3659	-0.0703	-0.0040	0.0233	0.0569	-0.3311
32	0.01	3.91	1.0256	0.0845	0.3525	0.0824	0.3637	-0.0722	-0.0057	0.0181	0.0789	-0.2513
33	0.01	4.72	0.9409	0.0807	0.3196	0.0858	0.3397	-0.0730	-0.0049	0.0206	0.0671	-0.2819
34	0.01	5.53	0.8833	0.0779	0.2981	0.0882	0.3375	-0.0569	-0.0051	0.0190	0.0866	-0.3221
35	0.01	6.38	0.8095	0.0739	0.2689	0.0913	0.3322	-0.0687	-0.0051	0.0171	0.0742	-0.2490
36	0.01	7.16	0.7290	0.0692	0.2397	0.0949	0.3288	-0.0690	-0.0059	0.0170	0.0663	-0.1915
37	0.01	7.94	0.6616	0.0649	0.2188	0.0981	0.3306	-0.0687	-0.0057	0.0171	0.0830	-0.2490
38	0.02	8.78	0.5970	0.0593	0.1884	0.0993	0.3156	-0.0724	-0.0059	0.0182	0.0815	-0.2510
39	0.02	9.56	0.5457	0.0554	0.1663	0.1013	0.3052	-0.0663	-0.0059	0.0211	0.0690	-0.3184
40	0.01	10.42	0.4709	0.0499	0.1398	0.1060	0.2969	-0.0794	-0.0103	0.0208	0.1297	-0.2625
41	0.01	11.17	0.3971	0.0431	0.1103	0.1085	0.2778	-0.0843	-0.0095	0.0135	0.1127	-0.1603
42	0.02	11.95	0.3339	0.0367	0.0860	0.1099	0.2574	-0.0852	-0.0105	0.0173	0.1232	-0.2032
43	0.02	12.77	0.2841	0.0300	0.0616	0.1056	0.2167	-0.0878	-0.0103	0.0139	0.1173	-0.1588
44	0.01	13.51	0.2237	0.0200	0.0376	0.0894	0.1683	-0.0949	-0.0097	0.0142	0.1022	-0.1494
45	0.02	14.29	0.1594	0.0085	0.0141	0.0533	0.0885	-0.1046	-0.0123	0.0128	0.1176	-0.1228
46	0.02	15.04	0.1160	-0.0002	-0.0049	-0.0017	-0.0426	-0.1113	-0.0104	0.0112	0.0934	-0.1007

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		87	1.10	1.7		0.0	82WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.02	15.86	0.0491	-0.0157	-0.0252	-0.3198	-0.5140	-0.0946	-0.0096	0.0123	0.1015	-0.1298	
48	0.01	16.63	0.0136	-0.0241	-0.0417	-1.7721	-3.0638	-0.1080	-0.0084	0.0107	0.0778	-0.0992	
49	0.02	17.42	-0.0622	-0.0322	-0.0685	0.5177	1.1017	-0.1134	-0.0144	0.0078	0.1270	-0.0689	
50	0.01	18.28	-0.1127	-0.0369	-0.0864	0.3274	0.7662	-0.1193	-0.0168	0.0054	0.1408	-0.0457	
51	0.01	19.11	-0.1775	-0.0448	-0.1165	0.2524	0.6546	-0.1052	-0.0139	0.0019	0.1283	-0.0185	
52	0.02	19.90	-0.2381	-0.0477	-0.1402	0.2003	0.5890	-0.1196	-0.0126	0.0036	0.1054	-0.0305	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	0.85	1.7	0.0	02WOF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.0	-19.90	0.0908	-0.2011	3.4239	-5.9742	0.0010	0.3028	-2.2150	
2	0.0	-19.58	0.0826	-0.2416	3.1607	-6.0337	0.0080	0.3031	-2.9254	
3	0.0	-18.84	0.1099	-0.2568	3.1668	-6.0243	0.0210	0.3020	-2.3372	
4	0.0	-17.97	0.1054	-0.2015	3.0846	-5.9142	0.0140	0.2976	-1.9123	
5	0.0	-17.12	0.0836	-0.1580	2.9175	-5.6533	0.0140	0.2902	-1.8904	
6	0.0	-16.27	0.0863	-0.1778	2.7520	-5.5306	0.0330	0.2935	-2.0605	
7	0.0	-15.48	0.0519	-0.1206	2.7046	-5.4363	0.0310	0.2761	-2.3249	
8	0.0	-14.69	0.0444	-0.0881	2.5071	-5.2187	0.0340	0.2825	-1.9856	
9	0.0	-13.84	0.0685	-0.1309	2.4265	-5.1224	0.0300	0.2810	-1.9109	
10	0.0	-13.00	0.0539	-0.1154	2.2104	-4.9163	0.0170	0.2882	-2.1421	
11	0.0	-12.20	0.0324	-0.0694	2.1177	-4.7956	0.0220	0.2817	-2.1407	
12	0.0	-11.44	0.0387	-0.1172	2.0753	-4.7232	0.0160	0.2740	-3.0279	
13	0.0	-10.66	0.0535	-0.1909	1.9450	-4.6098	0.0190	0.2647	-3.5682	
14	-0.02	-9.95	0.1663	-0.6677	1.9431	-5.0111	0.0010	0.2390	-4.0158	
15	-0.01	-9.19	0.0514	-0.2749	1.9624	-5.2861	0.0270	0.2225	-5.3494	
16	-0.01	-8.37	0.0305	-0.1907	1.8471	-5.4325	0.0170	0.2209	-6.2525	
17	0.0	-7.61	0.0232	-0.1045	1.8099	-5.3204	0.0060	0.2119	-4.5034	
18	0.0	-6.78	0.0294	-0.1301	1.6939	-5.1991	0.0080	0.2029	-4.4272	
19	0.0	-6.00	0.0450	-0.1500	1.6117	-5.0330	0.0070	0.1868	-3.3333	
20	0.0	-5.20	0.0308	-0.1171	1.5222	-4.8677	0.0080	0.1770	-3.8026	
21	0.0	-4.46	0.0152	-0.0853	1.4505	-4.7594	0.0060	0.1707	-5.6105	
22	0.0	-3.68	0.0276	-0.1436	1.3619	-4.7003	0.0080	0.1617	-5.2043	
23	0.0	-2.84	0.0355	-0.1277	1.2543	-4.5497	0.0090	0.1599	-3.5972	
24	-0.01	-2.06	0.0434	-0.2447	1.2612	-4.6144	0.0100	0.1711	-5.6396	
25	0.0	-1.26	0.0321	-0.1329	1.1739	-4.4932	0.0110	0.1799	-4.1414	
26	0.0	-0.46	0.0199	-0.1068	1.0711	-4.2721	0.0030	0.1688	-5.3698	
27	-0.01	0.32	0.0212	-0.1407	0.9257	-4.0326	0.0120	0.1583	-6.6358	
28	0.0	1.07	0.0238	-0.1043	0.8530	-3.8468	0.0080	0.1551	-4.3832	
29	0.0	1.86	0.0102	-0.0723	0.7477	-3.6254	0.0060	0.1471	-7.0863	
30	0.0	2.62	0.0275	-0.1425	0.5930	-3.2729	0.0010	0.1301	-5.1818	
31	0.0	3.42	0.0226	-0.1116	0.4692	-2.7977	0.0060	0.1192	-4.9398	
32	0.0	4.17	0.0288	-0.1073	0.3169	-2.4273	0.0030	0.1110	-3.7264	
33	0.0	4.95	0.0117	-0.0614	0.1528	-1.9747	0.0020	0.1002	-5.2462	
34	0.0	5.78	0.0087	-0.0562	0.0303	-1.5912	0.0	0.0887	-6.4575	
35	0.0	6.59	0.0049	-0.0529	-0.0957	-1.2379	0.0010	0.0783	-10.7878	
36	0.0	7.39	0.0100	-0.0560	-0.2355	-0.9752	0.0030	0.0782	-5.8000	
37	0.0	8.17	0.0056	-0.0128	-0.4784	-0.6350	0.0010	0.0770	-2.2929	
38	0.0	9.02	0.0032	-0.0415	-0.5945	-0.3690	0.0	0.0857	-12.9625	
39	0.0	9.81	0.0	-0.0170	-0.6960	0.0215	-0.0080	0.0911	-0.0170	
40	0.0	10.64	0.0014	-0.0530	-0.8549	0.3845	-0.0140	0.0922	-37.8245	
41	0.0	11.42	-0.0111	-0.0155	-1.0332	0.9095	-0.0200	0.0798	1.3928	
42	0.0	12.24	0.0010	-0.0184	-1.2603	1.2855	-0.0210	0.0670	-18.4000	
43	0.0	13.00	-0.0037	0.0402	-1.4012	1.6747	-0.0310	0.0557	-10.8595	
44	0.01	13.78	0.0104	0.0674	-1.5850	2.0130	-0.0240	0.0429	6.4846	
45	0.0	14.56	0.0074	0.0406	-1.7361	2.3245	-0.0330	0.0358	9.4919	
46	0.01	15.31	-0.0061	0.1045	-1.9339	2.4996	-0.0280	0.0213	-17.1377	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	88	0.85	1.7	0.0	BZWOF16	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	16.10	0.0056	0.0941	-2.0246	2.7175	-0.0410	0.0116	16.8143		
48	0.01	16.93	0.0093	0.0690	-2.1323	3.1082	-0.0490	-0.0154	7.4172		
49	0.01	17.72	-0.0485	0.3459	-2.2517	2.9594	0.0100	-0.0147	-7.1320		
50	0.0	18.59	0.0050	0.0450	-2.3636	2.8731	-0.0440	-0.0097	9.0000		
51	0.0	19.38	-0.0068	0.0445	-2.4388	3.0343	-0.0330	-0.0181	-6.5471		
52	0.0	20.22	-0.0091	0.0477	-2.6204	3.3665	-0.0390	-0.0343	-5.2462		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		88		0.85		1.7	0.0	B2XOF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	C81	XCFF1	YCFF1	CNF2	CH2	C82	XCFF2	YCFF2		
1	0.0	-19.90	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0102	0.0052	-0.0064	-0.5098	0.8234		
2	0.0	-19.58	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0203	0.0045	-0.0155	-0.2217	0.7618		
3	0.0	-18.84	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0284	0.0027	-0.0235	-0.0951	0.8262		
4	0.0	-17.97	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0219	0.0028	-0.0151	-0.1279	0.6894		
5	0.0	-17.12	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0241	0.0005	-0.0193	-0.0207	0.8021		
6	0.0	-16.27	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0387	-0.0049	-0.0272	0.1266	0.7027		
7	0.0	-15.48	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0402	-0.0027	-0.0217	0.0672	0.5397		
8	0.0	-14.64	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0395	-0.0036	-0.0240	0.0911	0.6066		
9	0.0	-13.84	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0375	-0.0031	-0.0187	0.0827	0.4985		
10	0.0	-13.00	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0174	0.0006	-0.0049	-0.0345	0.2815		
11	0.0	-12.20	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0308	-0.0018	-0.0115	0.0584	0.3722		
12	0.0	-11.44	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0215	-0.0005	-0.0085	0.0233	0.3937		
13	0.0	-10.66	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0077	0.0002	-0.0031	-0.0260	0.3981		
14	-0.02	-9.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.0436	0.0012	0.0235	0.0275	0.5396		
15	-0.01	-9.19	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0022	0.0009	0.0021	-0.4091	-0.9395		
16	-0.01	-8.37	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0195	0.0004	-0.0029	-0.0205	0.1486		
17	0.0	-7.61	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0167	0.0002	-0.0008	-0.0120	0.0458		
18	0.0	-6.78	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0229	-0.0001	-0.0031	0.0044	0.1367		
19	0.0	-6.00	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0102	0.0012	0.0000	-0.1176	-0.0001		
20	0.0	-5.20	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0136	0.0007	0.0001	-0.0515	-0.0050		
21	0.0	-4.46	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0185	0.0	-0.0007	0.0	0.0359		
22	0.0	-3.68	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0219	0.0	-0.0006	0.0	0.0273		
23	0.0	-2.84	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0188	0.0007	0.0003	-0.0372	-0.0178		
24	-0.01	-2.06	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0123	0.0005	0.0015	-0.0407	-0.1221		
25	0.0	-1.26	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0094	0.0036	0.0029	-0.3830	-0.3051		
26	0.0	-0.46	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0159	0.0038	0.0018	-0.2390	-0.1133		
27	-0.01	0.32	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0123	0.0021	0.0016	-0.1707	-0.1302		
28	0.0	1.07	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0127	0.0038	0.0027	-0.2992	-0.2101		
29	0.0	1.86	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0183	0.0011	-0.0005	-0.0601	0.0272		
30	0.0	2.62	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0123	0.0029	0.0016	-0.2358	-0.1302		
31	0.0	3.42	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0094	0.0036	0.0032	-0.3617	-0.3370		
32	0.0	4.17	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0125	0.0028	0.0025	-0.2240	-0.2028		
33	0.0	4.95	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0126	0.0025	0.0026	-0.1984	-0.2065		
34	0.0	5.78	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0076	0.0029	0.0027	-0.3816	-0.3510		
35	0.0	6.59	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0081	0.0038	0.0043	-0.4691	-0.5310		
36	0.0	7.39	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0081	0.0038	0.0043	-0.4691	-0.5310		
37	0.0	8.17	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0077	0.0029	0.0026	-0.3766	-0.3421		
38	0.0	9.02	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0063	0.0036	0.0038	-0.5714	-0.6033		
39	0.0	9.81	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0025	0.0033	0.0024	-1.3200	-0.9468		
40	0.0	10.64	9.9999	9.9999	9.9999	9.9999	9.9999	0.0016	0.0050	0.0063	3.1250	3.9582		
41	0.0	11.42	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0018	0.0048	0.0063	-2.6667	-3.5001		
42	0.0	12.24	9.9999	9.9999	9.9999	9.9999	9.9999	0.0003	0.0043	0.0045	14.3333	14.9999		
43	0.0	13.00	9.9999	9.9999	9.9999	9.9999	9.9999	0.0048	0.0050	0.0061	1.0417	1.2707		
44	0.01	13.78	9.9999	9.9999	9.9999	9.9999	9.9999	0.0075	0.0057	0.0081	0.7600	1.0799		
45	0.0	14.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0128	0.0050	0.0066	0.9906	0.9129		
46	0.01	15.31	9.9999	9.9999	9.9999	9.9999	9.9999	0.0062	0.0045	0.0070	0.7258	1.1235		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		88	0.85	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	16.10	9.9999	9.9999	9.9999	9.9999	9.9999	0.0127	0.0056	0.0066	0.4409	0.5222	
48	0.01	16.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0198	0.0067	0.0115	0.3386	0.5807	
49	0.01	17.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0160	0.0053	0.0074	0.3312	0.4645	
50	0.0	18.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0162	0.0049	0.0074	0.3025	0.4567	
51	0.0	19.38	9.9999	9.9999	9.9999	9.9999	9.9999	0.0169	0.0062	0.0114	0.3669	0.6764	
52	0.0	20.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.0175	0.0054	0.0095	0.3086	0.5446	

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SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.85	1.7	0.0	82WOF16	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	-19.90	0.9844	0.0776	0.3784	0.0788	0.3844	-0.0240	-0.0052	-0.0083	0.2167	0.3457
2	0.0	-19.50	0.9794	0.0776	0.3799	0.0792	0.3878	-0.0240	-0.0052	-0.0083	0.2167	0.3457
3	0.0	-18.84	0.9793	0.0780	0.3716	0.0796	0.3795	-0.0361	-0.0067	-0.0124	0.1856	0.3443
4	0.0	-17.97	0.9571	0.0788	0.3651	0.0823	0.3815	-0.0237	-0.0054	-0.0091	0.2278	0.3838
5	0.0	-17.12	0.9338	0.0787	0.3521	0.0843	0.3770	-0.0319	-0.0067	-0.0113	0.2100	0.3552
6	0.0	-16.27	0.9110	0.0792	0.3381	0.0869	0.3711	-0.0376	-0.0049	-0.0075	0.1303	0.2002
7	0.0	-15.48	0.8900	0.0792	0.3290	0.0890	0.3696	-0.0200	-0.0031	-0.0072	0.1550	0.3582
8	0.0	-14.69	0.8519	0.0794	0.3190	0.0932	0.3744	-0.0330	-0.0049	-0.0080	0.1485	0.2423
9	0.0	-13.84	0.8360	0.0799	0.3084	0.0956	0.3689	-0.0210	-0.0026	-0.0039	0.1238	0.1856
10	0.0	-13.00	0.8123	0.0796	0.3013	0.0980	0.3709	-0.0255	-0.0026	-0.0034	0.1020	0.1332
11	0.0	-12.20	0.7895	0.0793	0.2874	0.1004	0.3640	-0.0206	-0.0031	-0.0048	0.1505	0.2313
12	0.0	-11.44	0.7664	0.0793	0.2816	0.1035	0.3674	-0.0117	-0.0026	-0.0050	0.2222	0.4272
13	0.0	-10.66	0.7372	0.0780	0.2697	0.1058	0.3659	-0.0217	-0.0016	-0.0014	0.0737	0.0659
14	-0.02	-9.95	0.7060	0.0768	0.2525	0.1088	0.3577	0.0001	-0.0005	-0.0001	-0.0000	-0.0668
15	-0.01	-9.19	0.7955	0.0757	0.2867	0.0952	0.3604	0.0135	0.0037	-0.0008	0.0519	-0.0594
16	-0.01	-8.37	0.8250	0.0756	0.3039	0.0916	0.3684	0.0	-0.0002	0.0	-0.0002	0.0
17	0.0	-7.61	0.8026	0.0744	0.2923	0.0927	0.3642	0.0137	-0.0003	-0.0008	-0.0219	-0.0609
18	0.0	-6.78	0.7795	0.0731	0.2887	0.0938	0.3704	0.0139	-0.0005	-0.0016	-0.0360	-0.1128
19	0.0	-6.00	0.7507	0.0719	0.2780	0.0958	0.3704	0.0039	-0.0003	0.0027	-0.0769	0.6922
20	0.0	-5.20	0.7243	0.0704	0.2682	0.0972	0.3704	0.0187	-0.0013	-0.0022	-0.0695	-0.1160
21	0.0	-4.46	0.7261	0.0702	0.2654	0.0967	0.3656	0.0051	-0.0023	-0.0013	-0.4510	-0.2550
22	0.0	-3.68	0.7128	0.0718	0.2596	0.1007	0.3642	0.0001	-0.0005	-0.0001	-0.0000	-0.0668
23	0.0	-2.84	0.6867	0.0756	0.2535	0.1101	0.3692	-0.0010	0.0010	0.0033	-1.0000	-3.2668
24	-0.01	-2.06	0.6916	0.1023	0.2606	0.1479	0.3767	0.0138	-0.0005	-0.0008	-0.0362	-0.0581
25	0.0	-1.26	0.6680	0.1051	0.2541	0.1573	0.3804	0.0126	0.0017	0.0025	0.1349	0.1983
26	0.0	-0.46	0.6477	0.1078	0.2446	0.1644	0.3777	0.0026	0.0024	0.0060	0.9231	2.2948
27	-0.01	0.32	0.6028	0.1339	0.2202	0.2221	0.3652	0.0124	0.0022	0.0024	0.1774	0.1961
28	0.0	1.07	0.5805	0.1282	0.2018	0.2208	0.3477	0.0169	0.0024	0.0019	0.1420	0.1143
29	0.0	1.86	0.5146	0.1154	0.1765	0.2243	0.3429	0.0124	0.0017	0.0024	0.1371	0.1961
30	0.0	2.62	0.4609	0.1049	0.1550	0.2276	0.3363	0.0161	0.0031	0.0044	0.1925	0.2711
31	0.0	3.42	0.3763	0.0880	0.1265	0.2339	0.3361	0.0066	0.0033	0.0070	0.5000	1.0605
32	0.0	4.17	0.3171	0.0721	0.0986	0.2274	0.3108	0.0290	0.0048	0.0053	0.1655	0.1815
33	0.0	4.95	0.2499	0.0544	0.0710	0.2177	0.2840	0.0162	0.0031	0.0044	0.1914	0.2715
34	0.0	5.78	0.1891	0.0394	0.0482	0.2084	0.2549	0.0164	0.0031	0.0044	0.1890	0.2661
35	0.0	6.59	0.1220	0.0234	0.0265	0.1918	0.2168	0.0204	0.0034	0.0064	0.1667	0.3136
36	0.0	7.39	0.0833	0.0116	0.0079	0.1393	0.0943	0.0380	0.0056	0.0076	0.1474	0.1990
37	0.0	8.17	0.0261	-0.0037	-0.0103	-0.1418	-0.3948	0.0206	0.0034	0.0065	0.1650	0.3138
38	0.0	9.02	-0.0209	-0.0183	-0.0245	0.0796	1.1705	0.0300	0.0034	0.0053	0.1133	0.1765
39	0.0	9.81	-0.0745	-0.0348	-0.0427	0.4671	0.5735	0.0198	0.0044	0.0089	0.2272	0.4494
40	0.0	10.64	-0.1220	-0.0514	-0.0617	0.4213	0.5053	0.0196	0.0041	0.0088	0.2092	0.4506
41	0.0	11.42	-0.2041	-0.0711	-0.0857	0.3484	0.4199	0.0293	0.0033	0.0052	0.1126	0.1762
42	0.0	12.24	-0.2627	-0.0868	-0.1092	0.3304	0.4158	0.0125	0.0007	0.0025	0.0560	0.1972
43	0.0	13.00	-0.3250	-0.0986	-0.1288	0.3026	0.3952	0.0136	-0.0012	-0.0016	-0.0082	-0.1153
44	0.01	13.78	-0.3831	-0.1098	-0.1523	0.2866	0.3474	0.0135	-0.0015	-0.0015	-0.1111	-0.1112
45	0.0	14.56	-0.4404	-0.1188	-0.1693	0.2698	0.3845	-0.0064	-0.0041	-0.0051	0.0931	0.8332
46	0.01	15.31	-0.4731	-0.1230	-0.1856	0.2600	0.3924	-0.0059	-0.0087	-0.0061	1.4746	1.0281

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
		6	88	0.85	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.01	16.10	-0.4946	-0.1136	-0.1965	0.2297	0.3973	-0.0085	-0.0085	-0.0125	1.0000	1.4744	
48	0.01	16.93	-0.5291	-0.1157	-0.2148	0.2187	0.4060	-0.0094	-0.0078	-0.0095	0.8298	1.0141	
49	0.01	17.72	-0.5765	-0.1164	-0.2346	0.2019	0.4069	-0.0445	-0.0149	-0.0208	0.3348	0.4680	
50	0.0	18.59	-0.4991	-0.0723	-0.2110	0.1449	0.4228	-0.0168	-0.0102	-0.0162	0.6071	0.8451	
51	0.0	19.38	-0.5306	-0.0699	-0.2200	0.1317	0.4146	0.0016	-0.0062	-0.0032	-3.8750	-1.9793	
52	0.0	20.22	-0.5555	-0.0671	-0.2347	0.1208	0.4225	0.0055	-0.0062	-0.0013	-1.1273	-0.2304	

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	91	0.97	1.7	0.0	B2M0F16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-0.01	-19.49	0.0720	-0.2488	3.9521	-7.8206	-0.0290	0.4100	-3.4556		
2	-0.01	-19.49	0.0979	-0.3270	3.9161	-7.7202	-0.0210	0.4122	-3.3608		
3	-0.01	-18.67	0.0963	-0.3128	3.7291	-7.7334	-0.0170	0.4251	-3.2484		
4	0.0	-17.83	0.0847	-0.2405	3.6213	-7.7305	-0.0140	0.4171	-2.8404		
5	-0.01	-16.94	0.0649	-0.2578	3.4944	-7.7988	-0.0110	0.4279	-3.9732		
6	0.0	-16.17	0.0990	-0.2486	3.3818	-7.8481	-0.0100	0.4375	-2.5111		
7	0.0	-15.34	0.0647	-0.1346	3.2557	-8.0345	-0.0130	0.4531	-2.0801		
8	0.0	-14.56	0.0580	-0.1232	3.2447	-8.1991	-0.0040	0.4526	-2.1241		
9	0.0	-13.74	0.0394	-0.0672	3.1539	-8.3939	-0.0150	0.4604	-1.7046		
10	0.0	-12.90	0.0508	-0.1551	3.0627	-8.5142	0.0	0.4690	-3.0535		
11	-0.01	-12.15	0.0366	-0.1822	2.9506	-8.6253	0.0100	0.4732	-4.9792		
12	0.0	-11.35	0.0504	-0.1755	2.8649	-8.4723	0.0120	0.4656	-3.4833		
13	-0.01	-10.64	0.0454	-0.1935	2.7722	-8.3415	0.0110	0.4525	-4.2634		
14	-0.01	-9.85	0.0340	-0.1966	2.5543	-8.0594	0.0120	0.4459	-5.7623		
15	0.0	-9.07	0.0390	-0.1226	2.4783	-7.7920	0.0080	0.4117	-3.1436		
16	-0.01	-8.28	0.0378	-0.1609	2.2571	-7.4134	0.0110	0.3903	-4.2571		
17	-0.01	-7.50	0.0355	-0.1717	2.1473	-7.1267	0.0120	0.3746	-4.8366		
18	0.0	-6.67	0.0386	-0.1610	2.0801	-6.9267	0.0070	0.3431	-4.1720		
19	0.0	-5.90	0.0462	-0.1607	1.9239	-6.5860	0.0100	0.3187	-3.4779		
20	0.0	-5.09	0.0501	-0.1761	1.8423	-6.4507	0.0450	0.3166	-3.5158		
21	0.0	-4.34	0.0407	-0.1630	1.6377	-5.9343	0.0270	0.2818	-4.0044		
22	0.0	-3.52	0.0382	-0.1435	1.5281	-5.8359	0.0130	0.2831	-3.7560		
23	0.0	-2.71	0.0245	-0.1103	1.5099	-5.8054	0.0080	0.2779	-4.5020		
24	0.0	-1.96	0.0347	-0.1186	1.4462	-5.6422	0.0100	0.2720	-3.4173		
25	0.0	-1.11	0.0387	-0.1542	1.3179	-5.3186	0.0110	0.2626	-3.9840		
26	0.0	-0.32	0.0351	-0.1231	1.1997	-5.0352	0.0120	0.2592	-3.5083		
27	0.0	0.45	0.0478	-0.1499	1.0356	-4.5504	0.0030	0.2433	-3.1364		
28	-0.01	1.21	0.0291	-0.1527	0.9119	-4.1783	0.0050	0.2315	-5.2488		
29	0.0	1.98	0.0489	-0.1654	0.7149	-3.7105	-0.0010	0.2160	-3.3636		
30	0.0	2.76	0.0214	-0.0999	0.5794	-3.3479	0.0040	0.2010	-4.6710		
31	0.0	3.55	0.0278	-0.1139	0.4160	-2.9112	0.0	0.1874	-4.0978		
32	-0.01	4.29	0.0215	-0.1351	0.2338	-2.4740	-0.0020	0.1778	-6.2837		
33	0.0	5.14	0.0167	-0.0684	0.1439	-2.0442	0.0030	0.1689	-4.0946		
34	0.0	5.93	0.0221	-0.0739	-0.0347	-1.5662	-0.0010	0.1641	-3.3457		
35	0.0	6.78	0.0182	-0.0975	-0.1811	-1.1823	-0.0020	0.1616	-5.3560		
36	0.0	7.56	0.0350	-0.1200	-0.3566	-0.8247	-0.0010	0.1564	-3.4286		
37	0.0	8.38	0.0363	-0.0798	-0.4777	-0.4400	-0.0040	0.1507	-2.1949		
38	0.0	9.20	-0.0011	-0.0135	-0.6430	-0.0067	0.0	0.1457	12.2364		
39	0.0	9.96	-0.0046	-0.0246	-0.8285	0.3800	-0.0050	0.1225	5.3391		
40	0.0	10.82	0.0163	-0.0618	-1.0329	0.9261	-0.0130	0.0969	-3.7926		
41	0.0	11.61	0.0271	-0.0599	-1.1572	1.4002	-0.0110	0.0792	-2.2118		
42	0.0	12.35	-0.0001	0.0121	-1.4007	1.8670	-0.0190	0.0642	-121.4000		
43	0.0	13.17	0.0088	0.0365	-1.6065	2.3558	-0.0300	0.0448	5.3647		
44	0.0	13.90	-0.0165	0.0931	-1.7430	2.7111	-0.0320	0.0331	-5.6424		
45	0.01	14.68	-0.0084	0.1097	-1.9757	3.1140	-0.0360	0.0157	-13.0667		
46	0.0	15.44	-0.0089	0.0884	-2.1746	3.5114	-0.0450	0.0047	-9.9393		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6		91		0.97		1.7	0.0	B2	WOF16	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP						
47	0.01	16.25	-0.0264	0.1719	-2.3827	3.8207	-0.0360	-0.0063	-6.5136						
48	0.01	17.04	-0.0089	0.1064	-2.4566	4.0481	-0.0410	0.0006	-11.9618						
49	0.01	17.90	-0.0025	0.0985	-2.6411	4.2534	-0.0490	-0.0131	-39.3999						
50	0.01	18.73	-0.0539	0.2654	-2.8574	4.3803	-0.0160	-0.0243	-4.9250						
51	0.01	19.48	-0.0158	0.1371	-2.9553	4.3674	-0.0590	-0.0198	-8.6785						
52	0.01	20.33	-0.0479	0.1940	-3.1107	4.6079	-0.0490	-0.0380	-4.0514						

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	91	0.97	1.7	0.0	B2NOF16	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CNF1	CNF1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-19.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.0582	0.0105	0.0066	0.1804	0.1133
2	-0.01	-19.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.0629	0.0087	-0.0013	0.1383	-0.0213
3	-0.01	-18.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0494	0.0081	-0.0034	0.1640	-0.0696
4	0.0	-17.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.0417	0.0052	0.0005	0.1247	0.0119
5	-0.01	-16.94	9.9999	9.9999	9.9999	9.9999	9.9999	0.0364	0.0054	-0.0074	0.1484	-0.2025
6	0.0	-16.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0272	0.0030	-0.0091	0.1103	-0.3359
7	0.0	-15.34	9.9999	9.9999	9.9999	9.9999	9.9999	0.0179	0.0016	-0.0166	0.0894	-0.9294
8	0.0	-14.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0042	-0.0007	-0.0228	-0.1667	-5.4287
9	0.0	-13.74	9.9999	9.9999	9.9999	9.9999	9.9999	0.0051	-0.0007	-0.0207	-0.1373	-4.0589
10	0.0	-12.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0208	0.0015	-0.0113	0.0721	-0.5418
11	-0.01	-12.15	9.9999	9.9999	9.9999	9.9999	9.9999	0.0185	0.0006	-0.0132	0.0324	-0.7154
12	0.0	-11.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0215	0.0008	-0.0085	0.0372	-0.3970
13	-0.01	-10.64	9.9999	9.9999	9.9999	9.9999	9.9999	0.0121	-0.0002	-0.0154	-0.0165	-1.2701
14	-0.01	-9.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.0204	-0.0003	-0.0095	-0.0147	-0.4658
15	0.0	-9.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.0154	-0.0006	-0.0116	-0.0390	-0.7512
16	-0.01	-8.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.0100	0.0	-0.0108	0.0	-0.6001
17	-0.01	-7.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0165	-0.0004	-0.0102	-0.0242	-0.6183
18	0.0	-6.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0165	-0.0003	-0.0104	-0.0182	-0.6304
19	0.0	-5.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0170	0.0	-0.0069	0.0	-0.4080
20	0.0	-5.09	9.9999	9.9999	9.9999	9.9999	9.9999	0.0264	-0.0004	-0.0053	-0.0152	-0.2009
21	0.0	-4.34	9.9999	9.9999	9.9999	9.9999	9.9999	0.0267	-0.0007	-0.0063	-0.0262	-0.2361
22	0.0	-3.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.0223	0.0006	-0.0058	0.0269	-0.2547
23	0.0	-2.71	9.9999	9.9999	9.9999	9.9999	9.9999	0.0202	-0.0012	-0.0082	-0.0594	-0.4044
24	0.0	-1.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.0212	-0.0007	-0.0067	-0.0330	-0.3177
25	0.0	-1.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0241	-0.0006	-0.0071	-0.0249	-0.2933
26	0.0	-0.32	9.9999	9.9999	9.9999	9.9999	9.9999	0.0242	-0.0006	-0.0075	-0.0248	-0.3114
27	0.0	0.45	9.9999	9.9999	9.9999	9.9999	9.9999	0.0266	0.0004	-0.0062	0.0150	-0.2345
28	-0.01	1.21	9.9999	9.9999	9.9999	9.9999	9.9999	0.0296	0.0027	-0.0018	0.0912	-0.0621
29	0.0	1.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.0323	0.0030	-0.0011	0.0929	-0.0352
30	0.0	2.76	9.9999	9.9999	9.9999	9.9999	9.9999	0.0222	0.0006	-0.0005	0.0270	-0.2253
31	0.0	3.55	9.9999	9.9999	9.9999	9.9999	9.9999	0.0233	0.0014	-0.0040	0.0601	-0.1732
32	-0.01	4.29	9.9999	9.9999	9.9999	9.9999	9.9999	0.0309	0.0029	-0.0010	0.0939	-0.0325
33	0.0	5.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.0235	0.0013	-0.0051	0.0553	-0.2157
34	0.0	5.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0263	0.0017	-0.0050	0.0646	-0.1915
35	0.0	6.78	9.9999	9.9999	9.9999	9.9999	9.9999	0.0247	0.0019	-0.0042	0.0769	-0.1688
36	0.0	7.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0463	0.0042	-0.0009	0.0907	-0.0188
37	0.0	8.38	9.9999	9.9999	9.9999	9.9999	9.9999	0.0326	0.0029	-0.0019	0.0890	-0.0594
38	0.0	9.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.0284	0.0023	-0.0018	0.0810	-0.0647
39	0.0	9.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.0361	0.0040	0.0010	0.1108	0.0285
40	0.0	10.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.0375	0.0043	0.0004	0.1147	0.0239
41	0.0	11.61	9.9999	9.9999	9.9999	9.9999	9.9999	0.0419	0.0047	0.0004	0.1122	0.0086
42	0.0	12.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0393	0.0045	-0.0005	0.1145	-0.0128
43	0.0	13.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0403	0.0058	0.0009	0.1439	0.0230
44	0.0	13.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0393	0.0058	-0.0004	0.1476	-0.0103
45	0.01	14.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0326	0.0056	-0.0017	0.1718	-0.0533
46	0.0	15.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.0444	0.0086	0.0018	0.1937	0.0404

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		91	0.97	1.7	0.0	82WOF16	0.0	10	0	10	0	FIXED
PGINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	16.25	9.9999	9.9999	9.9999	9.9999	9.9999	0.0474	0.0072	0.0016	0.1519	0.0336
48	0.01	17.04	9.9999	9.9999	9.9999	9.9999	9.9999	0.0580	0.0080	0.0050	0.1379	0.0867
49	0.01	17.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0718	0.0113	0.0120	0.1574	0.1675
50	0.01	18.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.0514	0.0070	0.0031	0.1362	0.0608
51	0.01	19.48	9.9999	9.9999	9.9999	9.9999	9.9999	0.0613	0.0082	0.0090	0.1338	0.1472
52	0.01	20.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0531	0.0068	0.0080	0.1281	0.1505

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	91	0.97	1.7	0.0	BZWF16	0.0	10	0	10	0	FIXED	
PDINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.49	1.3225	0.0702	0.4709	0.0531	0.3606	-0.1058	-0.0125	0.0005	0.1181	-0.0052
2	-0.01	-19.49	1.3225	0.0702	0.4765	0.0531	0.3606	-0.1071	-0.0116	0.0053	0.1083	-0.0496
3	-0.01	-18.07	1.3195	0.0702	0.4684	0.0532	0.3550	-0.0995	-0.0116	0.0044	0.1166	-0.0447
4	0.0	-17.83	1.2918	0.0708	0.4598	0.0548	0.3500	-0.1063	-0.0125	0.0026	0.1176	-0.0243
5	-0.01	-16.94	1.2945	0.0707	0.4590	0.0546	0.3546	-0.0951	-0.0110	0.0019	0.1220	-0.0201
6	0.0	-16.17	1.3014	0.0705	0.4580	0.0542	0.3520	-0.0857	-0.0095	0.0074	0.1109	-0.0869
7	0.0	-15.34	1.3242	0.0707	0.4656	0.0534	0.3516	-0.0998	-0.0105	0.0057	0.1052	-0.0576
8	0.0	-14.56	1.3331	0.0714	0.4693	0.0536	0.3520	-0.0788	-0.0086	0.0092	0.1091	-0.1173
9	0.0	-13.74	1.3612	0.0710	0.4755	0.0522	0.3493	-0.0969	-0.0095	0.0087	0.0980	-0.0899
10	0.0	-12.90	1.3568	0.0708	0.4706	0.0522	0.3468	-0.0967	-0.0095	0.0087	0.0982	-0.0897
11	-0.01	-12.15	1.3802	0.0709	0.4718	0.0514	0.3418	-0.0816	-0.0086	0.0069	0.1054	-0.0847
12	0.0	-11.35	1.3509	0.0707	0.4628	0.0523	0.3426	-0.0785	-0.0081	0.0091	0.1032	-0.1165
13	-0.01	-10.64	1.3332	0.0714	0.4509	0.0536	0.3382	-0.0964	-0.0094	0.0087	0.0975	-0.0900
14	-0.01	-9.85	1.2794	0.0712	0.4406	0.0548	0.3391	-0.0718	-0.0063	0.0110	0.0877	-0.1529
15	0.0	-9.07	1.2500	0.0721	0.4197	0.0577	0.3358	-0.0840	-0.0086	0.0078	0.0966	-0.0881
16	-0.01	-8.28	1.2162	0.0730	0.4016	0.0600	0.3302	-0.0790	-0.0061	0.0099	0.0772	-0.1250
17	-0.01	-7.50	1.1686	0.0747	0.3829	0.0639	0.3277	-0.0797	-0.0061	0.0119	0.0765	-0.1498
18	0.0	-6.67	1.1360	0.0796	0.3705	0.0701	0.3262	-0.0650	-0.0048	0.0115	0.0738	-0.1776
19	0.0	-5.90	1.0828	0.0874	0.3544	0.0807	0.3273	-0.0731	-0.0040	0.0137	0.0547	-0.1880
20	0.0	-5.09	1.0355	0.0959	0.3375	0.0826	0.3260	-0.0725	-0.0042	0.0117	0.0579	-0.1620
21	0.0	-4.34	0.9831	0.1015	0.3176	0.1032	0.3230	-0.0730	-0.0044	0.0138	0.0603	-0.1887
22	0.0	-3.52	1.0055	0.1408	0.3360	0.1400	0.3342	-0.0659	-0.0034	0.0142	0.0516	-0.2161
23	0.0	-2.71	0.9862	0.1345	0.3319	0.1364	0.3366	-0.0651	-0.0046	0.0115	0.0707	-0.1768
24	0.0	-1.96	0.9423	0.1252	0.3163	0.1329	0.3357	-0.0658	-0.0040	0.0142	0.0608	-0.2154
25	0.0	-1.11	0.8909	0.1191	0.2912	0.1337	0.3268	-0.0585	-0.0032	0.0140	0.0547	-0.2394
26	0.0	-0.32	0.8348	0.1118	0.2678	0.1339	0.3208	-0.0585	-0.0040	0.0140	0.0684	-0.2394
27	0.0	0.45	0.7777	0.1049	0.2390	0.1349	0.3074	-0.0481	-0.0022	0.0161	0.0457	-0.3341
28	-0.01	1.21	0.7140	0.0975	0.2096	0.1366	0.2936	-0.0481	-0.0013	0.0154	0.0270	-0.3196
29	0.0	1.98	0.6484	0.0875	0.1777	0.1349	0.2740	-0.0564	-0.0005	0.0183	0.0089	-0.3246
30	0.0	2.76	0.5678	0.0760	0.1468	0.1338	0.2585	-0.0564	-0.0012	0.0184	0.0213	-0.3264
31	0.0	3.55	0.5040	0.0649	0.1167	0.1288	0.2316	-0.0527	-0.0008	0.0185	0.0152	-0.3518
32	-0.01	4.29	0.4292	0.0534	0.0877	0.1244	0.2044	-0.0530	-0.0012	0.0199	0.0226	-0.3762
33	0.0	5.14	0.3500	0.0407	0.0600	0.1163	0.1715	-0.0597	-0.0013	0.0168	0.0218	-0.2815
34	0.0	5.93	0.2857	0.0240	0.0369	0.0840	0.1292	-0.0450	-0.0014	0.0177	0.0311	-0.3935
35	0.0	6.78	0.2313	0.0102	0.0160	0.0441	0.0691	-0.0450	-0.0020	0.0177	0.0444	-0.3935
36	0.0	7.56	0.1621	0.0029	-0.0082	0.0179	-0.0505	-0.0377	-0.0012	0.0181	0.0318	-0.4811
37	0.0	8.38	0.0964	-0.0088	-0.0270	-0.0413	-0.2799	-0.0378	-0.0012	0.0182	0.0317	-0.4816
38	0.0	9.20	0.0425	-0.0208	-0.0496	-0.4894	-1.1680	-0.0494	-0.0006	0.0195	0.0121	-0.3955
39	0.0	9.96	-0.0226	-0.0384	-0.0730	1.6991	3.2314	-0.0463	-0.0004	0.0219	0.0086	-0.4724
40	0.0	10.82	-0.1014	-0.0463	-0.0943	0.4506	0.9299	-0.0421	-0.0021	0.0207	0.0499	-0.4910
41	0.0	11.61	-0.1681	-0.0562	-0.1264	0.3343	0.7520	-0.0417	-0.0062	0.0214	0.1487	-0.5133
42	0.0	12.35	-0.2478	-0.0629	-0.1532	0.2538	0.6181	-0.0559	-0.0076	0.0185	0.1360	-0.3305
43	0.0	13.17	-0.3123	-0.0687	-0.1816	0.2200	0.5814	-0.0663	-0.0053	0.0144	0.0799	-0.2173
44	0.0	13.90	-0.3863	-0.0760	-0.2072	0.1967	0.5364	-0.0828	-0.0056	0.0063	0.0676	-0.0762
45	0.01	14.68	-0.4474	-0.0840	-0.2325	0.1878	0.5205	-0.0877	-0.0047	0.0095	0.0536	-0.1081
46	0.0	15.44	-0.5124	-0.0900	-0.2556	0.1756	0.4989	-0.0992	-0.0078	-0.0025	0.0786	0.0247

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	91	0.97	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	16.25	-0.5688	-0.0936	-0.2798	0.1646	0.4920	-0.1100	-0.0106	-0.0031	0.0924	0.0278
48	0.01	17.04	-0.6192	-0.0970	-0.3012	0.1567	0.4865	-0.0983	-0.0112	-0.0045	0.1139	0.0453
49	0.01	17.90	-0.6695	-0.1030	-0.3165	0.1538	0.4727	-0.0982	-0.0120	-0.0044	0.1222	0.0450
50	0.01	18.73	-0.7101	-0.1096	-0.3301	0.1543	0.4649	-0.1051	-0.0127	-0.0063	0.1208	0.0601
51	0.01	19.48	-0.6708	-0.1099	-0.3162	0.1638	0.4714	-0.0929	-0.0117	0.0035	0.1259	-0.0382
52	0.01	20.33	-0.7164	-0.1104	-0.3321	0.1541	0.4636	-0.0827	-0.0098	0.0063	0.1185	-0.0767

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	92	1.01	1.7	0.0	B2W0F16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP		
1	0.0	-19.87	0.1132	-0.2644	4.1032	-8.3751	-0.0360	0.4746	-2.3364		
2	0.0	-19.50	0.1071	-0.3129	3.9971	-8.1886	-0.0320	0.4778	-2.9219		
3	0.0	-18.73	0.0732	-0.2414	4.0310	-8.4450	-0.0190	0.4859	-3.2989		
4	0.0	-17.93	0.0954	-0.2195	3.8097	-8.5342	-0.0340	0.4982	-2.3015		
5	0.01	-17.06	0.0901	-0.1411	3.7094	-8.7227	-0.0420	0.5082	-1.5665		
6	0.0	-16.27	0.0893	-0.2260	3.6629	-8.9446	-0.0250	0.5066	-2.5310		
7	0.0	-15.44	0.1054	-0.2421	3.5493	-9.0025	-0.0150	0.5134	-2.2135		
8	0.0	-14.66	0.0875	-0.2425	3.4719	-9.1562	-0.0060	0.5158	-2.7714		
9	-0.01	-13.81	0.0620	-0.2388	3.3073	-9.0626	0.0040	0.5142	-3.8516		
10	-0.01	-12.99	0.0548	-0.2027	3.2327	-8.9792	0.0090	0.5066	-3.6993		
11	-0.01	-12.20	0.0667	-0.2353	3.0657	-8.8364	0.0140	0.5011	-3.5289		
12	-0.01	-11.43	0.0626	-0.2176	2.9120	-8.5952	0.0120	0.4900	-3.4767		
13	0.0	-10.68	0.0585	-0.1899	2.7977	-8.4362	0.0150	0.4814	-3.2462		
14	0.0	-9.95	0.0570	-0.1568	2.6736	-8.2395	0.0140	0.4762	-2.7509		
15	-0.01	-9.16	0.0448	-0.1837	2.5655	-7.8967	0.0130	0.4632	-4.1009		
16	-0.01	-8.36	0.0525	-0.1925	2.3582	-7.5979	0.0150	0.4498	-3.6667		
17	0.0	-7.59	0.0378	-0.1564	2.2122	-7.3185	0.0110	0.4212	-4.1513		
18	0.0	-6.76	0.0506	-0.1638	2.0599	-7.0344	0.0070	0.4000	-3.2379		
19	0.0	-5.98	0.0362	-0.1257	1.9628	-6.8204	0.0030	0.3836	-3.4718		
20	0.0	-5.17	0.0462	-0.1715	1.8575	-6.5239	0.0030	0.3624	-3.5577		
21	-0.01	-4.45	0.0428	-0.1759	1.9218	-7.0030	0.0130	0.3590	-4.1103		
22	-0.01	-3.68	0.0443	-0.1950	1.7457	-6.6654	0.0170	0.3489	-4.4023		
23	0.0	-2.80	0.0527	-0.1878	1.6467	-6.3788	0.0170	0.3347	-3.5632		
24	0.0	-2.06	0.0423	-0.1592	1.5084	-6.0362	0.0180	0.3352	-3.7641		
25	0.0	-1.21	0.0686	-0.2250	1.4007	-5.6595	0.0080	0.3274	-3.2805		
26	0.0	-0.42	0.0519	-0.1766	1.2307	-5.2346	0.0150	0.3191	-3.4039		
27	0.0	0.35	0.0538	-0.1603	1.1140	-4.8251	0.0160	0.3116	-2.9799		
28	-0.01	1.12	0.0385	-0.1759	0.9267	-4.3949	0.0130	0.2984	-4.5688		
29	0.0	1.90	0.0406	-0.1408	0.7627	-3.9254	0.0140	0.2863	-3.4630		
30	0.0	2.67	0.0507	-0.1540	0.6650	-3.4837	0.0070	0.2744	-3.0371		
31	0.0	3.47	0.0413	-0.1218	0.4789	-2.9752	0.0070	0.2596	-2.9496		
32	0.0	4.22	0.0317	-0.1334	0.2962	-2.5823	0.0040	0.2530	-4.2076		
33	0.0	5.05	0.0403	-0.1294	0.1063	-2.0555	0.0070	0.2492	-3.2114		
34	0.0	5.85	0.0294	-0.0652	-0.0154	-1.5482	0.0030	0.2395	-2.3524		
35	0.0	6.65	0.0259	-0.0762	-0.2250	-1.2498	0.0070	0.2386	-2.9444		
36	0.0	7.48	0.0270	-0.0928	-0.3798	-0.7032	0.0010	0.2330	-3.4370		
37	0.0	8.28	0.0166	-0.0542	-0.4457	-0.5028	0.0020	0.2319	-3.2675		
38	0.0	9.09	0.0186	-0.0770	-0.6766	-0.1086	-0.0010	0.2147	-4.1419		
39	0.0	9.89	0.0257	-0.0540	-0.7695	0.2504	-0.0050	0.1959	-2.1004		
40	0.0	10.72	0.0177	-0.0638	-0.9610	0.0635	-0.0070	0.1853	-3.0034		
41	0.0	11.52	0.0369	-0.0657	-1.1777	1.2405	-0.0100	0.1579	-1.7744		
42	0.0	12.30	0.0183	-0.0296	-1.4603	1.7895	-0.0190	0.1265	-1.6186		
43	0.01	13.08	0.0105	0.0813	-1.5814	2.2619	-0.0220	0.1260	7.7429		
44	0.01	13.86	-0.0068	0.1025	-1.7990	2.7625	-0.0330	0.1040	-15.0765		
45	0.0	14.62	-0.0136	0.0940	-2.0212	3.1357	-0.0410	0.0916	-6.9147		
46	0.01	15.40	-0.0245	0.1423	-2.2305	3.5527	-0.0360	0.0749	-5.8082		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		92	1.01 1.7	0.0	B2M0F16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	16.19	-0.0213	0.1808	-2.3874	3.9433	-0.0330	0.0601	-8.4892		
48	0.01	16.99	-0.0258	0.2341	-2.5868	4.2174	-0.0380	0.0448	-9.0744		
49	0.01	17.81	-0.0311	0.2285	-2.7447	4.4836	-0.0280	0.0223	-7.3485		
50	0.01	18.68	-0.0385	0.2009	-2.9942	4.7488	-0.0350	0.0038	-5.2182		
51	0.01	19.45	-0.0548	0.2277	-3.1409	4.8892	-0.0320	-0.0109	-4.1555		
52	0.0	20.14	-0.0265	0.0751	-3.2173	4.6132	-0.0690	-0.0013	-2.8340		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	92	1.01	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	YCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	0.0	-19.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0572	0.0102	0.0032	0.1783	0.0552	
2	0.0	-19.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0517	0.0079	-0.0020	0.1528	-0.0382	
3	0.0	-18.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.0439	0.0040	-0.0025	0.0911	-0.0563	
4	0.0	-17.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0336	0.0037	-0.0106	0.1101	-0.3156	
5	0.01	-17.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0330	0.0019	-0.0131	0.0576	-0.3971	
6	0.0	-16.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.0248	-0.0021	-0.0173	-0.0847	-0.6990	
7	0.0	-15.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.0267	-0.0014	-0.0143	-0.0524	-0.5357	
8	0.0	-14.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.0290	-0.0010	-0.0124	-0.0345	-0.4289	
9	-0.01	-13.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.0233	-0.0012	-0.0113	-0.0515	-0.4865	
10	-0.01	-12.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.0240	-0.0019	-0.0139	-0.0792	-0.5793	
11	-0.01	-12.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.0242	-0.0021	-0.0148	-0.0868	-0.6131	
12	-0.01	-11.43	9.9999	9.9999	9.9999	9.9999	9.9999	0.0260	-0.0005	-0.0113	-0.0192	-0.4360	
13	0.0	-10.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0235	-0.0012	-0.0123	-0.0511	-0.5221	
14	0.0	-9.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.0243	-0.0006	-0.0101	-0.0247	-0.4158	
15	-0.01	-9.16	9.9999	9.9999	9.9999	9.9999	9.9999	0.0196	-0.0004	-0.0135	-0.0204	-0.6872	
16	-0.01	-8.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.0240	-0.0007	-0.0147	-0.0292	-0.6126	
17	0.0	-7.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0219	-0.0004	-0.0115	-0.0183	-0.5252	
18	0.0	-6.76	9.9999	9.9999	9.9999	9.9999	9.9999	0.0262	-0.0007	-0.0072	-0.0267	-0.2737	
19	0.0	-5.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.0256	-0.0007	-0.0103	-0.0273	-0.4012	
20	0.0	-5.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0261	0.0	-0.0068	0.0	-0.2607	
21	-0.01	-4.45	9.9999	9.9999	9.9999	9.9999	9.9999	0.0273	0.0	-0.0062	0.0	-0.2272	
22	-0.01	-3.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0315	-0.0002	-0.0067	-0.0063	-0.2128	
23	0.0	-2.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.0289	-0.0002	-0.0070	-0.0069	-0.2412	
24	0.0	-2.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0281	-0.0012	-0.0089	-0.0427	-0.3180	
25	0.0	-1.21	9.9999	9.9999	9.9999	9.9999	9.9999	0.0337	0.0010	-0.0050	0.0297	-0.1475	
26	0.0	-0.42	9.9999	9.9999	9.9999	9.9999	9.9999	0.0311	0.0006	-0.0052	0.0193	-0.1684	
27	0.0	0.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0405	0.0017	-0.0054	0.0420	-0.1335	
28	-0.01	1.12	9.9999	9.9999	9.9999	9.9999	9.9999	0.0287	0.0004	-0.0066	0.0139	-0.2312	
29	0.0	1.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0273	0.0002	-0.0065	0.0073	-0.2382	
30	0.0	2.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0359	0.0026	-0.0031	0.0724	-0.0874	
31	0.0	3.47	9.9999	9.9999	9.9999	9.9999	9.9999	0.0371	0.0027	-0.0025	0.0728	-0.0604	
32	0.0	4.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.0350	0.0015	-0.0048	0.0429	-0.1382	
33	0.0	5.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0414	0.0022	-0.0031	0.0531	-0.0750	
34	0.0	5.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.0370	0.0025	-0.0018	0.0676	-0.0479	
35	0.0	6.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.0404	0.0017	-0.0044	0.0421	-0.1099	
36	0.0	7.48	9.9999	9.9999	9.9999	9.9999	9.9999	0.0485	0.0038	0.0011	0.0784	0.0219	
37	0.0	8.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.0400	0.0022	-0.0029	0.0550	-0.0718	
38	0.0	9.09	9.9999	9.9999	9.9999	9.9999	9.9999	0.0478	0.0029	-0.0013	0.0607	-0.0266	
39	0.0	9.89	9.9999	9.9999	9.9999	9.9999	9.9999	0.0458	0.0042	0.0013	0.0917	0.0275	
40	0.0	10.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0525	0.0047	0.0017	0.0895	0.0323	
41	0.0	11.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.0485	0.0050	0.0013	0.1031	0.0260	
42	0.0	12.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.0446	0.0046	0.0010	0.1031	0.0216	
43	0.01	13.08	9.9999	9.9999	9.9999	9.9999	9.9999	0.0431	0.0048	0.0012	0.1114	0.0270	
44	0.01	13.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.0432	0.0055	0.0005	0.1273	0.0115	
45	0.0	14.62	9.9999	9.9999	9.9999	9.9999	9.9999	0.0479	0.0078	0.0034	0.1628	0.0702	
46	0.01	15.40	9.9999	9.9999	9.9999	9.9999	9.9999	0.0446	0.0071	0.0002	0.1592	0.0036	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION	
6	92	1.01	1.7	0.0	B2MDF16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	Cd1	XCPF1	YCPF1	CNF2	CH2	Cd2	XCPF2	YCPF2
47	0.01	16.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0472	0.0063	0.0002	0.1758	0.0048
48	0.01	16.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.0488	0.0074	-0.0002	0.1516	-0.0049
49	0.01	17.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.0472	0.0061	0.0013	0.1292	0.0281
50	0.01	18.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0552	0.0081	0.0074	0.1465	0.1343
51	0.01	19.45	9.9999	9.9999	9.9999	9.9999	9.9999	0.0386	0.0054	0.0035	0.1399	0.0897
52	0.0	20.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.0572	0.0071	0.0054	0.1241	0.0937

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6	92	1.01	1.7	0.0	B2MDF16	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCPF3	CNF4	CH4	LB4	XCFF4	YCPF4
1	0.0	-19.87	1.4757	0.0653	0.5183	0.0443	0.3512	-0.1143	-0.0133	0.0045	0.1164	-0.0395
2	0.0	-19.50	1.4709	0.0658	0.5142	0.0447	0.3496	-0.1050	-0.0113	0.0091	0.1076	-0.0868
3	0.0	-18.73	1.4594	0.0658	0.5095	0.0451	0.3491	-0.1252	-0.0134	0.0051	0.1070	-0.0406
4	0.0	-17.93	1.4496	0.0669	0.5260	0.0449	0.3531	-0.1075	-0.0123	0.0056	0.1144	-0.0519
5	0.01	-17.06	1.5058	0.0674	0.5281	0.0448	0.3507	-0.1110	-0.0127	0.0053	0.1144	-0.0479
6	0.0	-16.27	1.4977	0.0682	0.5310	0.0455	0.3545	-0.0942	-0.0102	0.0085	0.1083	-0.0904
7	0.0	-15.44	1.5001	0.0683	0.5261	0.0455	0.3507	-0.0942	-0.0100	0.0084	0.1062	-0.0893
8	0.0	-14.66	1.4834	0.0683	0.5247	0.0460	0.3537	-0.1047	-0.0113	0.0071	0.1079	-0.0679
9	-0.01	-13.81	1.4701	0.0687	0.5153	0.0467	0.3505	-0.0950	-0.0094	0.0104	0.0989	-0.1099
10	-0.01	-12.99	1.4467	0.0688	0.5067	0.0476	0.3502	-0.1046	-0.0113	0.0071	0.1080	-0.0683
11	-0.01	-12.20	1.4238	0.0685	0.4942	0.0481	0.3471	-0.0806	-0.0086	0.0101	0.1067	-0.1258
12	-0.01	-11.43	1.3948	0.0689	0.4781	0.0494	0.3428	-0.0917	-0.0088	0.0113	0.0960	-0.1237
13	0.0	-10.68	1.3691	0.0688	0.4671	0.0503	0.3412	-0.0944	-0.0100	0.0085	0.1059	-0.0905
14	0.0	-9.45	1.3456	0.0696	0.4518	0.0517	0.3357	-0.0949	-0.0100	0.0105	0.1054	-0.1104
15	-0.01	-9.16	1.2962	0.0705	0.4360	0.0544	0.3364	-0.0877	-0.0086	0.0103	0.0981	-0.1172
16	-0.01	-8.36	1.2554	0.0733	0.4187	0.0584	0.3335	-0.0813	-0.0074	0.0127	0.0910	-0.1563
17	0.0	-7.59	1.2154	0.0787	0.4032	0.0648	0.3317	-0.0986	-0.0092	0.0115	0.0933	-0.1171
18	0.0	-6.76	1.1894	0.0856	0.3879	0.0720	0.3262	-0.0819	-0.0064	0.0147	0.0781	-0.1796
19	0.0	-5.98	1.1464	0.0918	0.3725	0.0801	0.3253	-0.0884	-0.0074	0.0128	0.0837	-0.1453
20	0.0	-5.17	1.1115	0.0954	0.3617	0.0858	0.3254	-0.0790	-0.0041	0.0162	0.0519	-0.2048
21	-0.01	-4.45	1.1709	0.1281	0.3921	0.1094	0.3348	-0.0680	-0.0033	0.0149	0.0485	-0.2197
22	-0.01	-3.68	1.1210	0.1214	0.3710	0.1083	0.3310	-0.0686	-0.0025	0.0168	0.0364	-0.2455
23	0.0	-2.80	1.0602	0.1171	0.3486	0.1105	0.3288	-0.0796	-0.0033	0.0182	0.0415	-0.2283
24	0.0	-2.06	0.9991	0.1125	0.3251	0.1126	0.3254	-0.0643	-0.0033	0.0145	0.0513	-0.2251
25	0.0	-1.21	0.9422	0.1072	0.2984	0.1138	0.3167	-0.0614	-0.0021	0.0166	0.0342	-0.2710
26	0.0	-0.42	0.8675	0.1010	0.2671	0.1164	0.3079	-0.0614	-0.0023	0.0166	0.0375	-0.2710
27	0.0	0.35	0.7953	0.0954	0.2358	0.1200	0.2965	-0.0677	-0.0039	0.0148	0.0576	-0.2192
28	-0.01	1.12	0.7203	0.0882	0.2069	0.1224	0.2873	-0.0683	-0.0039	0.0168	0.0571	-0.2466
29	0.0	1.90	0.6587	0.0796	0.1765	0.1208	0.2674	-0.0612	-0.0033	0.0167	0.0539	-0.2730
30	0.0	2.67	0.5765	0.0696	0.1485	0.1207	0.2576	-0.0643	-0.0019	0.0195	0.0274	-0.2815
31	0.0	3.47	0.5022	0.0596	0.1174	0.1187	0.2339	-0.0630	-0.0006	0.0225	0.0095	-0.3573
32	0.0	4.22	0.4375	0.0491	0.0887	0.1122	0.2027	-0.0622	-0.0013	0.0193	0.0209	-0.3099
33	0.0	5.05	0.3576	0.0366	0.0616	0.1023	0.1721	-0.0741	-0.0012	0.0238	0.0162	-0.3213
34	0.0	5.85	0.2863	0.0233	0.0374	0.0814	0.1306	-0.0669	-0.0012	0.0237	0.0179	-0.3544
35	0.0	6.65	0.2287	0.0097	0.0130	0.0424	0.0569	-0.0630	-0.0022	0.0232	0.0349	-0.3684
36	0.0	7.48	0.1709	0.0021	-0.0089	0.0123	-0.0518	-0.0675	-0.0020	0.0269	0.0296	-0.3986
37	0.0	8.28	0.0935	-0.0080	-0.0261	-0.0856	-0.2796	-0.0777	-0.0026	0.0243	0.0335	-0.3129
38	0.0	9.09	0.0603	-0.0204	-0.0522	-0.3383	-0.8658	-0.0662	-0.0028	0.0211	0.0423	-0.3194
39	0.0	9.89	-0.0094	-0.0367	-0.0682	3.9043	7.2587	-0.0715	-0.0020	0.0275	0.0280	-0.3843
40	0.0	10.72	-0.0659	-0.0468	-0.0945	0.7102	1.4394	-0.0711	-0.0043	0.0274	0.0605	-0.3855
41	0.0	11.52	-0.1384	-0.0532	-0.1224	0.3844	0.8845	-0.0521	-0.0093	0.0259	0.1785	-0.4979
42	0.0	12.30	-0.2241	-0.0592	-0.1521	0.2662	0.6786	-0.0733	-0.0106	0.0240	0.1446	-0.3271
43	0.01	13.08	-0.2984	-0.0642	-0.1828	0.2151	0.6127	-0.0793	-0.0080	0.0182	0.1009	-0.2292
44	0.01	13.86	-0.3562	-0.0680	-0.2048	0.1909	0.5749	-0.0952	-0.0092	0.0112	0.0966	-0.1174
45	0.0	14.62	-0.4371	-0.0718	-0.2306	0.1643	0.5277	-0.1011	-0.0113	0.0067	0.1118	-0.0664
46	0.01	15.40	-0.5045	-0.0753	-0.2615	0.1493	0.5183	-0.0946	-0.0094	0.0085	0.0994	-0.0896

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	92	1.01	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.01	16.19	-0.5768	-0.0782	-0.2828	0.1356	0.4903	-0.1013	-0.0101	0.0067	0.0997	-0.0666	
48	0.01	16.99	-0.6235	-0.0807	-0.3070	0.1294	0.4923	-0.1169	-0.0152	0.0002	0.1300	-0.0021	
49	0.01	17.81	-0.6974	-0.0821	-0.3322	0.1177	0.4763	-0.1137	-0.0144	0.0011	0.1266	-0.0098	
50	0.01	18.68	-0.7442	-0.0852	-0.3515	0.1145	0.4723	-0.1127	-0.0157	-0.0028	0.1393	0.0244	
51	0.01	19.45	-0.7754	-0.0900	-0.3650	0.1161	0.4707	-0.1141	-0.0136	0.0018	0.1192	-0.0156	
52	0.0	20.14	-0.7356	-0.1002	-0.3463	0.1362	0.4708	-0.1074	-0.0136	0.0036	0.1266	-0.0336	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	93	1.05	1.7	0.0	B260F16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-0.01	-19.91	0.1050	-0.2530	4.4176	-9.2593	-0.0520	0.5960	-3.3619		
2	-0.01	-19.93	0.0624	-0.2243	4.3244	-9.2778	-0.0490	0.5877	-3.5955		
3	0.0	-19.59	0.0919	-0.2156	4.2581	-9.2060	-0.0470	0.5970	-2.3467		
4	-0.01	-18.84	0.1032	-0.3504	4.2188	-9.2499	-0.0440	0.5746	-3.3961		
5	-0.01	-18.01	0.0846	-0.3214	4.0521	-9.3044	-0.0440	0.5855	-3.7995		
6	-0.01	-17.18	0.1240	-0.4025	3.9003	-9.3289	-0.0190	0.5871	-3.2468		
7	-0.01	-16.34	0.1436	-0.4170	3.7373	-9.2247	-0.0020	0.5826	-2.9042		
8	-0.01	-15.56	0.1000	-0.3380	3.5765	-9.2046	0.0020	0.5864	-3.3000		
9	0.0	-14.73	0.1260	-0.2814	3.4843	-9.2175	0.0080	0.5819	-2.2333		
10	0.0	-13.93	0.1050	-0.2900	3.4134	-9.1721	0.0130	0.5690	-2.7619		
11	0.0	-13.11	0.0692	-0.2229	3.2056	-8.9432	0.0130	0.5733	-3.2208		
12	0.0	-12.31	0.0787	-0.2341	3.0866	-8.7826	0.0170	0.5644	-2.9756		
13	-0.01	-11.56	0.0534	-0.2367	2.9468	-8.5850	0.0190	0.5598	-4.4337		
14	-0.01	-10.76	0.0616	-0.2332	2.8038	-8.3548	0.0150	0.5494	-3.7864		
15	-0.01	-10.04	0.0344	-0.1801	2.6877	-8.0863	0.0120	0.5300	-5.2372		
16	-0.01	-9.25	0.0419	-0.1666	2.4735	-7.8063	0.0120	0.5259	-3.9776		
17	0.0	-8.46	0.0669	-0.1986	2.4136	-7.6555	0.0130	0.4998	-2.9695		
18	0.0	-7.66	0.0531	-0.1813	2.2666	-7.3465	0.0100	0.4915	-3.6451		
19	-0.01	-6.87	0.0430	-0.1742	2.1145	-7.1468	0.0060	0.4806	-4.0512		
20	-0.01	-6.05	0.0523	-0.1672	2.0615	-6.9586	0.0040	0.4607	-3.1973		
21	-0.01	-5.33	0.0422	-0.1671	2.0453	-7.5419	0.0160	0.4539	-3.9592		
22	-0.01	-4.52	0.0510	-0.1974	1.9705	-7.1922	0.0170	0.4310	-3.8706		
23	-0.01	-3.74	0.0638	-0.1903	1.9034	-6.5221	0.0200	0.4202	-2.9831		
24	-0.01	-2.89	0.0616	-0.1852	1.7124	-6.4718	0.0160	0.4078	-3.0071		
25	-0.01	-2.12	0.0381	-0.1253	1.5694	-6.1486	0.0180	0.4024	-3.2898		
26	-0.01	-1.36	0.0381	-0.1223	1.3662	-5.7342	0.0170	0.4002	-3.9984		
27	-0.01	-0.50	0.0453	-0.1344	1.2062	-5.2883	0.0190	0.3915	-2.9673		
28	-0.01	0.25	0.0625	-0.1895	1.1444	-4.9287	0.0090	0.3833	-3.0320		
29	-0.01	1.03	0.0393	-0.1470	1.0291	-4.5423	0.0130	0.3799	-3.7410		
30	-0.01	1.78	0.0329	-0.1370	0.7804	-4.0662	0.0160	0.3695	-4.1660		
31	-0.01	2.59	0.0421	-0.1349	0.6233	-3.5243	0.0130	0.3606	-3.2052		
32	-0.01	3.33	0.0271	-0.1079	0.4118	-3.0063	0.0140	0.3452	-3.9630		
33	0.0	4.14	0.0275	-0.0815	0.3040	-2.5963	0.0070	0.3297	-2.9636		
34	0.0	4.90	0.0349	-0.0878	0.0983	-2.0893	0.0090	0.3146	-2.5175		
35	-0.01	5.72	-0.0020	-0.0422	-0.0261	-1.6792	0.0080	0.3134	21.1000		
36	-0.01	6.57	-0.0137	-0.0068	-0.1856	-1.2260	0.0090	0.3071	0.4978		
37	0.0	7.33	0.0164	-0.0340	-0.3177	-0.8911	0.0060	0.3119	-2.0707		
38	0.0	8.17	-0.0007	-0.0120	-0.5156	-0.4530	0.0050	0.2967	17.1714		
39	0.0	8.97	0.0181	-0.0643	-0.6126	-0.1372	0.0	0.2901	-3.5547		
40	0.0	9.79	0.0242	-0.0659	-0.8072	0.2692	-0.0050	0.2754	-2.7223		
41	0.0	10.58	0.0270	-0.0368	-1.0476	0.8177	-0.0030	0.2490	-1.3630		
42	-0.01	11.41	0.0210	-0.0754	-1.1795	1.1944	-0.0170	0.2612	-3.5905		
43	0.0	12.18	0.0152	-0.0023	-1.4200	1.7611	-0.0180	0.2217	-0.1500		
44	0.0	12.96	0.0021	0.0261	-1.4347	1.9226	-0.0290	0.2186	14.4095		
45	0.0	13.74	-0.0036	0.0560	-1.6755	2.4537	-0.0310	0.2040	-15.5667		
46	0.01	14.49	0.0127	0.0852	-1.9732	2.9805	-0.0310	0.1638	6.7102		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		93		1.05 1.7		0.0	82WOF16	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.0	15.27	0.0112	0.0643	-2.1333	3.2586	-0.0380	0.1582	5.7428				
48	0.01	16.05	0.0149	0.1151	-2.3265	3.6550	-0.0350	0.1398	7.7275				
49	0.01	16.87	0.0029	0.1019	-2.5892	4.0518	-0.0420	0.1045	35.1517				
50	0.0	17.66	-0.0427	0.1538	-2.7087	4.3022	-0.0380	0.1044	-3.6014				
51	0.0	18.51	-0.0516	0.2192	-3.0659	4.8182	-0.0310	0.0608	-4.2488				
52	0.0	19.31	-0.0502	0.2033	-3.0984	4.8387	-0.0400	0.0718	-4.0494				
53	0.01	20.11	-0.0730	0.2702	-3.3267	5.1383	-0.0250	0.0300	-3.7014				
54	0.0	20.15	-0.0680	0.2182	-3.3499	5.1427	-0.0290	0.0148	-3.2088				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFP	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	93	1.05	1.7	0.0	BZNF16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNFP1	CH1	CB1	XCPF1	YCPF1	CNFP2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-19.91	9.9999	9.9999	9.9999	9.9999	9.9999	0.0778	0.0128	0.0075	0.1645	0.0967
2	-0.01	-19.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0646	0.0092	0.0026	0.1424	0.0406
3	0.0	-19.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0598	0.0084	0.0007	0.1405	0.0121
4	-0.01	-18.84	9.9999	9.9999	9.9999	9.9999	9.9999	0.0729	0.0109	0.0004	0.1495	0.0054
5	-0.01	-18.01	9.9999	9.9999	9.9999	9.9999	9.9999	0.0620	0.0057	-0.0077	0.0919	-0.1248
6	-0.01	-17.18	9.9999	9.9999	9.9999	9.9999	9.9999	0.0516	0.0039	-0.0077	0.0756	-0.1493
7	-0.01	-16.34	9.9999	9.9999	9.9999	9.9999	9.9999	0.0430	-0.0028	-0.0190	-0.0651	-0.4412
8	-0.01	-15.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0334	-0.0035	-0.0173	-0.1048	-0.5171
9	0.0	-14.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.0289	-0.0034	-0.0151	-0.1176	-0.5215
10	0.0	-13.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0291	-0.0033	-0.0160	-0.1134	-0.5499
11	0.0	-13.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0248	-0.0028	-0.0145	-0.1129	-0.5861
12	0.0	-12.31	9.9999	9.9999	9.9999	9.9999	9.9999	0.0297	-0.0020	-0.0136	-0.0673	-0.4580
13	-0.01	-11.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0243	-0.0015	-0.0130	-0.0617	-0.5351
14	-0.01	-10.76	9.9999	9.9999	9.9999	9.9999	9.9999	0.0287	-0.0009	-0.0101	-0.0314	-0.3532
15	-0.01	-10.04	9.9999	9.9999	9.9999	9.9999	9.9999	0.0309	-0.0007	-0.0141	-0.0227	-0.4564
16	-0.01	-9.25	9.9999	9.9999	9.9999	9.9999	9.9999	0.0288	0.0	-0.0112	0.0	-0.3890
17	0.0	-8.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.0338	0.0001	-0.0106	0.0030	-0.3147
18	0.0	-7.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.0303	0.0	-0.0125	0.0	-0.4127
19	-0.01	-6.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0301	-0.0004	-0.0114	-0.0133	-0.3777
20	-0.01	-6.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0346	-0.0003	-0.0086	-0.0087	-0.2477
21	-0.01	-5.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0348	-0.0005	-0.0094	-0.0144	-0.2702
22	-0.01	-4.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.0301	-0.0011	-0.0114	-0.0365	-0.3777
23	-0.01	-3.74	9.9999	9.9999	9.9999	9.9999	9.9999	0.0329	0.0	-0.0070	0.0	-0.2139
24	-0.01	-2.89	9.9999	9.9999	9.9999	9.9999	9.9999	0.0289	-0.0014	-0.0111	-0.0484	-0.3830
25	-0.01	-2.12	9.9999	9.9999	9.9999	9.9999	9.9999	0.0280	-0.0009	-0.0077	-0.0321	-0.2739
26	-0.01	-1.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.0345	-0.0001	-0.0077	-0.0029	-0.2233
27	-0.01	-0.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0318	0.0	-0.0069	0.0	-0.2171
28	-0.01	0.25	9.9999	9.9999	9.9999	9.9999	9.9999	0.0319	0.0002	-0.0076	0.0063	-0.2373
29	-0.01	1.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0404	0.0014	-0.0047	0.0347	-0.1173
30	-0.01	1.78	9.9999	9.9999	9.9999	9.9999	9.9999	0.0382	0.0009	-0.0064	0.0236	-0.1668
31	-0.01	2.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0342	0.0009	-0.0059	0.0263	-0.1726
32	-0.01	3.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0337	0.0	-0.0093	0.0	-0.2751
33	0.0	4.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.0344	0.0007	-0.0069	0.0203	-0.2017
34	0.0	4.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0432	0.0019	-0.0050	0.0440	-0.1159
35	-0.01	5.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0347	0.0004	-0.0076	0.0115	-0.2201
36	-0.01	6.57	9.9999	9.9999	9.9999	9.9999	9.9999	0.0346	0.0008	-0.0072	0.0231	-0.2072
37	0.0	7.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0407	0.0017	-0.0056	0.0418	-0.1385
38	0.0	8.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0405	0.0016	-0.0047	0.0395	-0.1162
39	0.0	8.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.0476	0.0029	-0.0013	0.0609	-0.0281
40	0.0	9.79	9.9999	9.9999	9.9999	9.9999	9.9999	0.0481	0.0024	-0.0032	0.0499	-0.0660
41	0.0	10.58	9.9999	9.9999	9.9999	9.9999	9.9999	0.0537	0.0036	0.0010	0.0670	0.0185
42	-0.01	11.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.0588	0.0041	0.0022	0.0697	0.0373
43	0.0	12.18	9.9999	9.9999	9.9999	9.9999	9.9999	0.0541	0.0032	-0.0002	0.0591	-0.0032
44	0.0	12.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.0587	0.0048	0.0023	0.0818	0.0385
45	0.0	13.74	9.9999	9.9999	9.9999	9.9999	9.9999	0.0528	0.0054	0.0051	0.1023	0.0965
46	0.01	14.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.0468	0.0039	0.0028	0.0833	0.0597

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	93	1.05	1.7	D.0	82WU16	0.0	10	0	10	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.0	15.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.0582	0.0069	0.0104	0.1186	0.1786		
48	0.01	16.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0554	0.0086	0.0108	0.1552	0.1942		
49	0.01	16.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0411	0.0077	0.0039	0.1873	0.0948		
50	0.0	17.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.0340	0.0065	0.0005	0.1912	0.0156		
51	0.0	18.51	9.9999	9.9999	9.9999	9.9999	9.9999	0.0358	0.0069	0.0043	0.1927	0.1209		
52	0.0	19.31	9.9999	9.9999	9.9999	9.9999	9.9999	0.0406	0.0075	0.0063	0.1847	0.1559		
53	0.01	20.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0384	0.0060	0.0047	0.1562	0.1223		
54	0.0	20.15	9.9999	9.9999	9.9999	9.9999	9.9999	0.0477	0.0086	0.0103	0.1803	0.2158		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	93	1.05	1.7	0.0	0.82	WOF16	0.0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.91	1.6572	0.0637	0.5836	0.0384	0.3522	-0.1227	-0.0130	0.0113	0.1059	-0.0922
2	-0.01	-19.93	1.6506	0.0641	0.5751	0.0388	0.3484	-0.1243	-0.0149	0.0053	0.1199	-0.0425
3	0.0	-19.59	1.6378	0.0640	0.5787	0.0391	0.3534	-0.1349	-0.0151	0.0065	0.1119	-0.0485
4	-0.01	-18.84	1.6391	0.0642	0.5760	0.0392	0.3514	-0.1226	-0.0128	0.0112	0.1044	-0.0917
5	-0.01	-18.01	1.6302	0.0646	0.5692	0.0396	0.3492	-0.1227	-0.0125	0.0112	0.1019	-0.0914
6	-0.01	-17.18	1.6220	0.0653	0.5656	0.0403	0.3487	-0.1123	-0.0117	0.0107	0.1042	-0.0951
7	-0.01	-16.34	1.5960	0.0661	0.5553	0.0414	0.3479	-0.0952	-0.0102	0.0112	0.1071	-0.1174
8	-0.01	-15.56	1.5734	0.0666	0.5470	0.0423	0.3476	-0.1094	-0.0108	0.0127	0.0987	-0.1165
9	0.0	-14.73	1.5473	0.0668	0.5400	0.0432	0.3490	-0.1227	-0.0123	0.0112	0.1002	-0.0914
10	0.0	-13.93	1.5171	0.0660	0.5295	0.0439	0.3493	-0.0994	-0.0101	0.0141	0.1010	-0.1416
11	0.0	-13.11	1.4908	0.0674	0.5157	0.0452	0.3459	-0.1093	-0.0110	0.0128	0.1006	-0.1169
12	0.0	-12.31	1.4560	0.0677	0.5017	0.0465	0.3445	-0.0893	-0.0096	0.0153	0.1075	-0.1718
13	-0.01	-11.56	1.4326	0.0686	0.4884	0.0479	0.3409	-0.0924	-0.0096	0.0139	0.1039	-0.1506
14	-0.01	-10.76	1.3951	0.0694	0.4719	0.0497	0.3382	-0.0922	-0.0096	0.0139	0.1041	-0.1505
15	-0.01	-10.04	1.3594	0.0707	0.4559	0.0520	0.3353	-0.0921	-0.0088	0.0138	0.0955	-0.1500
16	-0.01	-9.25	1.3290	0.0734	0.4413	0.0552	0.3322	-0.0918	-0.0090	0.0138	0.0980	-0.1504
17	0.0	-8.46	1.3022	0.0775	0.4249	0.0593	0.3253	-0.0961	-0.0088	0.0174	0.0916	-0.1806
18	0.0	-7.66	1.2717	0.0848	0.4157	0.0667	0.3269	-0.0960	-0.0088	0.0173	0.0917	-0.1803
19	-0.01	-6.87	1.2506	0.0881	0.4053	0.0704	0.3241	-0.1066	-0.0088	0.0186	0.0826	-0.1743
20	-0.01	-6.05	1.2163	0.0898	0.3937	0.0738	0.3237	-0.0897	-0.0076	0.0190	0.0847	-0.2119
21	-0.01	-5.33	1.2877	0.1096	0.4217	0.0851	0.3275	-0.0915	-0.0090	0.0137	0.0984	-0.1498
22	-0.01	-4.52	1.2127	0.1065	0.3929	0.0882	0.3240	-0.0892	-0.0071	0.0171	0.0796	-0.1914
23	-0.01	-3.74	1.1633	0.1035	0.3720	0.0890	0.3198	-0.0795	-0.0057	0.0184	0.0717	-0.2316
24	-0.01	-2.89	1.1053	0.1014	0.3442	0.0917	0.3114	-0.0867	-0.0057	0.0187	0.0657	-0.2158
25	-0.01	-2.12	1.0333	0.0976	0.3194	0.0945	0.3091	-0.0793	-0.0049	0.0160	0.0618	-0.2015
26	-0.01	-1.36	0.9759	0.0938	0.2966	0.0961	0.3039	-0.0766	-0.0040	0.0181	0.0522	-0.2360
27	-0.01	-0.50	0.9059	0.0889	0.2686	0.0981	0.2965	-0.0708	-0.0044	0.0191	0.0485	-0.2108
28	-0.01	0.25	0.8405	0.0831	0.2447	0.0989	0.2911	-0.0636	-0.0030	0.0203	0.0472	-0.3193
29	-0.01	1.05	0.7617	0.0761	0.2121	0.0999	0.2785	-0.05874	-0.0044	0.0188	0.0503	-0.2148
30	-0.01	1.78	0.6964	0.0701	0.1827	0.1007	0.2623	-0.0740	-0.0038	0.0202	0.0514	-0.2735
31	-0.01	2.59	0.5981	0.0624	0.1518	0.1043	0.2538	-0.0637	-0.0030	0.0203	0.0471	-0.3183
32	-0.01	3.33	0.5212	0.0550	0.1204	0.1055	0.2310	-0.0780	-0.0034	0.0219	0.0436	-0.2809
33	0.0	4.14	0.4450	0.0470	0.0934	0.1070	0.2098	-0.0810	-0.0042	0.0205	0.0519	-0.2532
34	0.0	4.90	0.3654	0.0388	0.0619	0.1062	0.1693	-0.0676	-0.0033	0.0214	0.0488	-0.3162
35	-0.01	5.72	0.2980	0.0288	0.0363	0.0966	0.1218	-0.0808	-0.0050	0.0193	0.0619	-0.2386
36	-0.01	6.57	0.2418	0.0173	0.0140	0.0715	0.0578	-0.0816	-0.0050	0.0224	0.0613	-0.2746
37	0.0	7.33	0.1854	0.0051	-0.0083	0.0275	-0.0449	-0.0787	-0.0039	0.0246	0.0496	-0.3123
38	0.0	8.17	0.1136	-0.0075	-0.0317	-0.0660	-0.2795	-0.0789	-0.0033	0.0246	0.0418	-0.3119
39	0.0	8.97	0.0790	-0.0147	-0.0523	-0.2494	-0.6617	-0.0727	-0.0031	0.0276	0.0426	-0.3793
40	0.0	9.79	0.0145	-0.0141	-0.0712	-2.3517	-3.0461	-0.0755	-0.0070	0.0261	0.0427	-0.3463
41	0.0	10.58	-0.0599	-0.0439	-0.0994	0.7329	1.6088	-0.0654	-0.0078	0.0293	0.1498	-0.4481
42	-0.01	11.41	-0.1257	-0.0502	-0.1224	0.3994	0.9736	-0.0751	-0.0109	0.0262	0.1451	-0.3485
43	0.0	12.18	-0.1863	-0.0551	-0.1483	0.2458	0.7759	-0.0804	-0.0089	0.0187	0.1107	-0.2527
44	0.0	12.96	-0.2444	-0.0578	-0.1720	0.2365	0.7039	-0.0976	-0.0084	0.0176	0.0861	-0.1801
45	0.0	13.74	-0.3280	-0.0595	-0.1990	0.1814	0.6067	-0.1038	-0.0072	0.0146	0.0806	-0.1408
46	0.01	14.49	-0.4066	-0.0608	-0.2281	0.1495	0.5610	-0.0979	-0.0078	0.0177	0.0797	-0.1806

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	93	1.05	1.7	0.0	BZM0F16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
47	0.0	15.27	-0.4822	-0.0627	-0.2516	0.1300	0.5217	-0.1161	-0.0106	0.0086	0.0913	-0.0742
48	0.01	16.05	-0.5400	-0.0644	-0.2705	0.1191	0.5128	-0.1134	-0.0098	0.0107	0.0864	-0.0945
49	0.01	16.87	-0.5945	-0.0679	-0.3050	0.1142	0.5130	-0.1295	-0.0130	0.0064	0.1004	-0.0498
50	0.0	17.66	-0.6416	-0.0705	-0.3251	0.1099	0.5067	-0.1284	-0.0141	0.0026	0.1098	-0.0204
51	0.0	18.51	-0.7053	-0.0748	-0.3509	0.1046	0.4975	-0.1221	-0.0132	0.0049	0.1081	-0.0402
52	0.0	19.31	-0.7509	-0.0762	-0.3683	0.1015	0.4905	-0.1259	-0.0125	0.0053	0.0993	-0.0425
53	0.01	20.11	-0.8008	-0.0797	-0.3899	0.0995	0.4869	-0.1203	-0.0104	0.0097	0.0865	-0.0868
54	0.0	20.15	-0.8145	-0.0810	-0.3842	0.0994	0.4717	-0.1142	-0.0092	0.0120	0.0806	-0.1055

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	94	1.10	1.7	0.0	BZWO16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
1	-0.01	-19.91	0.1164	-0.4439	4.3411	-9.3032	-0.0430	0.6242	-3.8141		
2	-0.01	-19.50	0.0544	-0.2161	4.3248	-9.2473	-0.0120	0.6415	-3.9735		
3	-0.01	-18.70	0.0662	-0.2586	4.4179	-9.3327	-0.0420	0.6103	-3.9076		
4	-0.01	-17.93	0.0784	-0.3587	4.1417	-9.2009	-0.0320	0.6139	-4.5760		
5	-0.01	-17.06	0.1143	-0.3530	3.9637	-9.1517	-0.0150	0.6091	-3.0885		
6	0.0	-16.27	0.0785	-0.1619	3.8224	-9.0879	-0.0050	0.5974	-2.0624		
7	0.0	-15.46	0.0772	-0.2121	3.4895	-8.8318	-0.0080	0.6163	-2.7471		
8	0.0	-14.67	0.0574	-0.1663	3.4094	-8.8386	0.0100	0.6045	-2.8983		
9	0.0	-13.82	0.0393	-0.1260	3.3419	-8.7791	0.0010	0.5887	-3.2066		
10	0.0	-12.99	0.0558	-0.1791	3.1173	-8.5147	0.0130	0.5910	-3.2100		
11	0.0	-12.19	0.0338	-0.1373	3.0681	-8.4288	0.0070	0.5641	-4.0627		
12	0.0	-11.43	0.0286	-0.0850	2.8761	-8.1570	0.0170	0.5640	-2.9734		
13	-0.01	-10.72	0.0161	-0.0625	2.6438	-7.8287	0.0120	0.5555	-3.8845		
14	-0.01	-9.95	0.0077	-0.0468	2.5757	-7.7274	0.0070	0.5437	-6.0753		
15	0.0	-9.19	0.0354	-0.0726	2.4450	-7.5344	0.0080	0.5253	-2.0497		
16	0.0	-8.35	0.0030	-0.0122	2.4650	-7.4394	0.0070	0.5081	-4.0667		
17	-0.01	-7.62	0.0265	-0.0881	2.1608	-7.0466	0.0070	0.4927	-3.3245		
18	0.0	-6.77	0.0209	-0.0253	2.1731	-7.0318	-0.0010	0.4800	-1.2086		
19	0.0	-6.03	0.0376	-0.0906	2.0880	-7.4596	0.0140	0.4821	-2.4106		
20	0.0	-5.22	0.0310	-0.0884	1.5654	-7.0581	0.0170	0.4617	-2.8516		
21	-0.01	-4.46	-0.0216	0.0222	1.9030	-6.8476	0.0200	0.4579	-1.0296		
22	-0.01	-3.70	0.0211	-0.0845	1.8181	-6.5758	0.0200	0.4417	-4.0066		
23	0.0	-2.83	0.0010	-0.0204	1.6681	-6.2708	0.0180	0.4393	-20.4000		
24	0.0	-2.06	0.0466	-0.1212	1.4951	-5.7437	0.0160	0.4210	-2.6017		
25	0.0	-1.24	0.0335	-0.0689	1.3687	-5.4347	0.0140	0.4252	-2.0567		
26	-0.01	-0.43	0.0252	-0.0973	1.2479	-5.0457	0.0160	0.4069	-3.8603		
27	-0.01	0.33	0.0272	-0.1251	1.0385	-4.5564	0.0110	0.4112	-4.5985		
28	0.0	1.11	0.0431	-0.0873	1.0085	-4.2665	0.0120	0.4060	-2.0264		
29	0.0	1.87	0.0241	-0.0497	0.7179	-3.7627	0.0120	0.3957	-2.0639		
30	0.0	2.65	0.0183	-0.0336	0.6019	-3.3564	0.0160	0.3834	-1.8372		
31	0.0	3.41	0.0058	-0.0131	0.4831	-2.7901	0.0110	0.3730	-2.2621		
32	0.0	4.19	0.0185	-0.0369	0.2903	-2.4341	0.0070	0.3548	-1.9946		
33	0.0	4.97	-0.0002	0.0193	0.0368	-1.8823	0.0120	0.3391	-96.4000		
34	0.0	5.80	-0.0207	0.0730	-0.1279	-1.5557	0.0150	0.3371	-3.5256		
35	0.0	6.60	0.0034	0.0302	-0.1879	-1.1228	0.0080	0.3293	8.8961		
36	0.0	7.41	0.0120	0.0042	-0.3511	-0.7044	0.0060	0.3275	0.3500		
37	0.0	8.20	0.0101	-0.0191	-0.5912	-0.3741	0.0030	0.3168	-1.8950		
38	0.0	9.07	0.0090	0.0114	-0.6568	0.0517	0.0010	0.3043	1.2667		
39	0.0	9.85	-0.0001	-0.0009	-0.8385	0.4600	-0.0010	0.2955	8.6000		
40	0.0	10.63	-0.0557	0.1200	-1.0129	0.8581	-0.0060	0.2865	-2.1540		
41	0.0	11.44	-0.0024	0.0654	-1.3415	1.3722	-0.0130	0.2570	-27.2333		
42	0.0	12.24	-0.0197	0.0916	-1.3414	1.7920	-0.0200	0.2482	-4.6487		
43	0.0	12.98	0.0027	0.0812	-1.6078	2.6179	-0.0250	0.2417	30.0814		
44	0.0	13.77	-0.0374	0.2283	-1.7403	2.4874	-0.0230	0.2235	-3.9784		
45	0.0	14.51	-0.0068	0.0805	-2.0270	2.8758	-0.0390	0.1883	-11.8412		
46	0.01	15.28	0.0083	0.1382	-2.1878	3.2129	-0.0310	0.1832	21.9333		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
		6	94	1.10	1.7	0.0	B2WUF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.01	16.05	-0.0117	0.1424	-2.3921	3.5049	-0.0360	0.1588	-12.1692				
48	0.01	16.86	-0.0317	0.2813	-2.5407	3.7959	-0.0190	0.1458	-8.8763				
49	0.01	17.67	-0.0502	0.2972	-2.7794	4.1282	-0.0330	0.1389	-5.9219				
50	0.01	18.50	-0.0565	0.2611	-2.9091	4.3597	-0.0250	0.1015	-4.6212				
51	0.01	19.32	-0.0513	0.2618	-3.2428	4.6849	-0.0400	0.0887	-5.1037				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		94	1.10	1.7	0.0	BZNOF16	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CBI2	XCPF2	YCPF2
1	-0.01	-19.91	9.9999	9.9999	9.9999	9.9999	9.9999	0.0809	0.0097	0.0119	0.1199	0.1466
2	-0.01	-19.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0403	0.0015	0.0021	0.0372	0.0528
3	-0.01	-18.70	9.9999	9.9999	9.9999	9.9999	9.9999	0.0744	0.0075	0.0079	0.1008	0.1061
4	-0.01	-17.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0695	0.0063	0.0018	0.0906	0.0253
5	-0.01	-17.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0503	0.0003	-0.0077	0.0060	-0.1539
6	0.0	-16.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.0334	-0.0025	-0.0109	-0.0749	-0.3255
7	0.0	-15.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.0181	-0.0012	-0.0097	-0.0315	-0.2547
8	0.0	-14.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0253	-0.0038	-0.0137	-0.1502	-0.5403
9	0.0	-13.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.0297	-0.0020	-0.0115	-0.0673	-0.3873
10	0.0	-12.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.0181	-0.0040	-0.0154	-0.2210	-0.8491
11	0.0	-12.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0234	-0.0014	-0.0119	-0.0598	-0.5087
12	0.0	-11.43	9.9999	9.9999	9.9999	9.9999	9.9999	0.0110	-0.0045	-0.0173	-0.4091	-1.5759
13	-0.01	-10.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0162	-0.0021	-0.0134	-0.1296	-0.8273
14	-0.01	-9.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.0173	-0.0028	-0.0124	-0.1618	-0.7188
15	0.0	-9.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0148	-0.0025	-0.0135	-0.1330	-0.7200
16	0.0	-8.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0186	-0.0027	-0.0126	-0.1452	-0.6775
17	-0.01	-7.62	9.9999	9.9999	9.9999	9.9999	9.9999	0.0164	-0.0021	-0.0141	-0.1280	-0.8619
18	0.0	-6.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.0159	-0.0025	-0.0119	-0.1572	-0.7485
19	0.0	-6.03	9.9999	9.9999	9.9999	9.9999	9.9999	0.0189	-0.0034	-0.0136	-0.1799	-0.7197
20	0.0	-5.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.0187	-0.0030	-0.0129	-0.1604	-0.6882
21	-0.01	-4.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.0128	-0.0041	-0.0145	-0.3203	-1.1355
22	-0.01	-3.70	9.9999	9.9999	9.9999	9.9999	9.9999	0.0163	-0.0032	-0.0134	-0.1963	-0.8202
23	0.0	-2.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.0148	-0.0035	-0.0123	-0.2365	-0.8289
24	0.0	-2.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0255	-0.0002	-0.0052	-0.0078	-0.2040
25	0.0	-1.24	9.9999	9.9999	9.9999	9.9999	9.9999	0.0155	-0.0029	-0.0104	-0.1871	-0.6732
26	-0.01	-0.43	9.9999	9.9999	9.9999	9.9999	9.9999	0.0116	-0.0049	-0.0145	-0.4224	-1.2530
27	-0.01	0.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0255	0.0001	-0.0050	0.0039	-0.1962
28	0.0	1.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0279	0.0005	-0.0045	0.0179	-0.1614
29	0.0	1.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0258	-0.0005	-0.0060	-0.0194	-0.2327
30	0.0	2.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.0216	-0.0018	-0.0093	-0.0833	-0.4307
31	0.0	3.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.0275	-0.0009	-0.0075	-0.0327	-0.2741
32	0.0	4.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0297	-0.0004	-0.0064	-0.0135	-0.2156
33	0.0	4.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.0229	-0.0018	-0.0094	-0.0786	-0.4091
34	0.0	5.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.0150	-0.0034	-0.0132	-0.2267	-0.8801
35	0.0	6.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.0226	-0.0039	-0.0084	-0.0398	-0.3703
36	0.0	7.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.0384	0.0004	-0.0053	0.0104	-0.1381
37	0.0	8.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.0391	0.0012	-0.0030	0.0307	-0.0760
38	0.0	9.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.0413	0.0017	-0.0015	0.0412	-0.0372
39	0.0	9.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.0449	0.0021	-0.0003	0.0468	-0.0075
40	0.0	10.63	9.9999	9.9999	9.9999	9.9999	9.9999	0.0275	-0.0011	-0.0075	-0.0400	-0.2741
41	0.0	11.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.0356	0.0	-0.0042	0.0	-0.1190
42	0.0	12.24	9.9999	9.9999	9.9999	9.9999	9.9999	0.0413	0.0015	-0.0015	0.0363	-0.0372
43	0.0	12.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.0463	0.0018	-0.0008	0.0389	-0.0167
44	0.0	13.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.0296	-0.0004	-0.0057	-0.0135	-0.1938
45	0.0	14.51	9.9999	9.9999	9.9999	9.9999	9.9999	0.0494	0.0032	0.0023	0.0648	0.0458
46	0.01	15.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.0457	0.0023	0.0017	0.0503	0.0378

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	94	1.10	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.01	16.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0481	0.0045	0.0077	0.0936	0.1607		
48	0.01	16.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.0365	0.0016	0.0029	0.0438	0.0784		
49	0.01	17.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0372	0.0034	0.0050	0.0914	0.1343		
50	0.01	18.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0397	0.0037	0.0052	0.0932	0.1317		
51	0.01	19.32	9.9999	9.9999	9.9999	9.9999	9.9999	0.0357	0.0047	0.0058	0.1317	0.1623		

MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	94	1.10	1.7	0.0	B2W0F16	0.0	10	0	10	0	FIXED
	ALPHA	BETA	LN F3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.91	1.6502	0.0588	0.5509	0.0356	0.3581	-0.1096	-0.0138	0.0021	0.1259	-0.0190
2	-0.01	-19.50	1.6476	0.0593	0.5885	0.0360	0.3572	-0.1111	-0.0132	0.0077	0.1188	-0.0691
3	-0.01	-18.70	1.6442	0.0593	0.5890	0.0361	0.3582	-0.1286	-0.0166	-0.0017	0.1291	0.0128
4	-0.01	-17.93	1.6160	0.0602	0.5804	0.0373	0.3591	-0.1291	-0.0164	0.0002	0.1270	-0.0014
5	-0.01	-17.00	1.5968	0.0610	0.5702	0.0382	0.3571	-0.1146	-0.0127	0.0074	0.1108	-0.0647
6	0.0	-16.27	1.5709	0.0619	0.5565	0.0394	0.3545	-0.0977	-0.0121	0.0067	0.1238	-0.0690
7	0.0	-15.46	1.5434	0.0626	0.5471	0.0406	0.3545	-0.1207	-0.0138	0.0058	0.1143	-0.0479
8	0.0	-14.67	1.5160	0.0631	0.5350	0.0416	0.3529	-0.1018	-0.0113	0.0095	0.1110	-0.0931
9	0.0	-13.82	1.4962	0.0639	0.5215	0.0427	0.3485	-0.1175	-0.0134	0.0065	0.1140	-0.0557
10	0.0	-12.99	1.4594	0.0650	0.5083	0.0445	0.3483	-0.1114	-0.0124	0.0069	0.1113	-0.0797
11	0.0	-12.19	1.4231	0.0664	0.4924	0.0467	0.3460	-0.1176	-0.0138	0.0072	0.1173	-0.0613
12	0.0	-11.93	1.3874	0.0672	0.4797	0.0484	0.3458	-0.1084	-0.0119	0.0097	0.1098	-0.0893
13	-0.01	-10.72	1.3470	0.0681	0.4624	0.0506	0.3433	-0.1085	-0.0132	0.0097	0.1217	-0.0898
14	-0.01	-9.95	1.3221	0.0705	0.4546	0.0533	0.3439	-0.1087	-0.0126	0.0104	0.1159	-0.0955
15	0.0	-9.19	1.3001	0.0763	0.4391	0.0587	0.3378	-0.0960	-0.0135	0.0118	0.1094	-0.1230
16	0.0	-8.35	1.2789	0.0828	0.4260	0.0647	0.3331	-0.1020	-0.0119	0.0095	0.1167	-0.0933
17	-0.01	-7.62	1.2452	0.0862	0.4136	0.0692	0.3322	-0.0862	-0.0096	0.0125	0.1114	-0.1447
18	0.0	-6.77	1.2210	0.0880	0.4038	0.0726	0.3307	-0.0889	-0.0099	0.0104	0.1114	-0.1167
19	0.0	-6.03	1.2892	0.1023	0.4275	0.0794	0.3316	-0.0870	-0.0079	0.0149	0.0906	-0.1714
20	0.0	-5.22	1.2339	0.1009	0.4023	0.0818	0.3260	-0.0865	-0.0081	0.0131	0.0936	-0.1512
21	-0.01	-4.46	1.1735	0.0984	0.3784	0.0839	0.3225	-0.1090	-0.0087	0.0097	0.0798	-0.0888
22	-0.01	-3.70	1.1147	0.0958	0.3597	0.0859	0.3227	-0.0902	-0.0056	0.0134	0.0621	-0.1490
23	0.0	-2.83	1.0675	0.0922	0.3566	0.0864	0.3153	-0.1094	-0.0068	0.0103	0.0622	-0.0946
24	0.0	-2.06	0.9956	0.0873	0.3112	0.0877	0.3126	-0.0777	-0.0030	0.0156	0.0380	-0.2005
25	0.0	-1.24	0.9243	0.0821	0.2848	0.0888	0.3081	-0.0903	-0.0049	0.0135	0.0543	-0.1496
26	-0.01	-0.43	0.8625	0.0784	0.2572	0.0909	0.2982	-0.0980	-0.0043	0.0161	0.0439	-0.1647
27	-0.01	0.33	0.8055	0.0735	0.2345	0.0912	0.2911	-0.0785	-0.0030	0.0180	0.0382	-0.2298
28	0.0	1.11	0.7345	0.0686	0.2077	0.0934	0.2828	-0.0750	-0.0031	0.0177	0.0413	-0.2361
29	0.0	1.87	0.6471	0.0627	0.1754	0.0969	0.2711	-0.0717	-0.0041	0.0156	0.0520	-0.2009
30	0.0	2.65	0.5685	0.0570	0.1440	0.1003	0.2534	-0.0887	-0.0039	0.0186	0.0440	-0.2102
31	0.0	3.41	0.4890	0.0514	0.1158	0.1051	0.2369	-0.0791	-0.0030	0.0199	0.0379	-0.2521
32	0.0	4.19	0.4081	0.0443	0.0835	0.1086	0.2355	-0.0751	-0.0031	0.0178	0.0413	-0.2367
33	0.0	4.97	0.3321	0.0372	0.0553	0.1120	0.1664	-0.0751	-0.0031	0.0178	0.0413	-0.2367
34	0.0	5.80	0.2610	0.0290	0.0354	0.1111	0.1355	-0.0777	-0.0043	0.0156	0.0553	-0.2009
35	0.0	6.60	0.2036	0.0184	0.0133	0.0904	0.0655	-0.0790	-0.0039	0.0200	0.0494	-0.2529
36	0.0	7.41	0.1459	0.0040	-0.0154	0.0274	-0.1054	-0.0765	-0.0037	0.0233	0.0484	-0.3047
37	0.0	8.20	0.0906	-0.0056	-0.0320	-0.0568	-0.3250	-0.0707	-0.0033	0.0268	0.0467	-0.3797
38	0.0	9.07	0.0440	-0.0210	-0.0562	-0.4773	-1.2781	-0.0704	-0.0031	0.0268	0.0724	-0.3813
39	0.0	9.85	-0.0190	-0.0318	-0.0814	1.6737	4.2858	-0.0701	-0.0030	0.0268	0.1141	-0.3829
40	0.0	10.63	-0.0855	-0.0418	-0.1057	6.4889	1.2361	-0.0884	-0.0079	0.0187	0.0894	-0.2120
41	0.0	11.44	-0.1569	-0.0469	-0.1251	0.2989	0.7972	-0.0855	-0.0087	0.0208	0.1018	-0.2434
42	0.0	12.24	-0.2155	-0.0526	-0.1509	0.2441	0.7003	-0.0782	-0.0069	0.0161	0.0882	-0.2320
43	0.0	12.98	-0.2827	-0.0551	-0.1715	0.1949	0.6066	-0.0946	-0.0087	0.0171	0.0920	-0.1805
44	0.0	13.77	-0.3614	-0.0591	-0.2017	0.1635	0.5582	-0.1088	-0.0106	0.0079	0.0974	-0.0730
45	0.0	14.51	-0.4114	-0.0580	-0.2187	0.1410	0.5316	-0.1155	-0.0116	0.0075	0.1004	-0.0651
46	0.01	15.28	-0.4880	-0.0604	-0.2529	0.1238	0.5183	-0.1218	-0.0116	0.0058	0.0952	-0.0477

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		94		1.10 1.7		0.0	B2WOF16	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.01	16.05	-0.5329	-0.0601	-0.2733	0.1128	0.5128	-0.1225	-0.0107	0.0077	0.0873	-0.0627	
48	0.01	16.86	-0.5973	-0.0631	-0.3003	0.1056	0.5028	-0.1173	-0.0082	0.0125	0.0699	-0.1067	
49	0.01	17.67	-0.6384	-0.0652	-0.3220	0.1021	0.5044	-0.1463	-0.0158	-0.0021	0.1080	0.0147	
50	0.01	18.50	-0.6989	-0.0676	-0.3423	0.0967	0.4897	-0.1315	-0.0126	0.0045	0.0958	-0.0341	
51	0.01	19.32	-0.7476	-0.0704	-0.3660	0.0942	0.4896	-0.1306	-0.0137	0.0002	0.1049	-0.0014	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	95	0.85	1.7	0.0	BZWF0	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.75	0.03	-0.0976	-0.2813	0.0495	0.0397	-0.0030	0.1083	2.8828	
2	-2.47	0.04	-0.0876	-0.2533	0.0361	0.1074	-0.0040	0.1040	2.8922	
3	-1.89	0.03	-0.0673	-0.1888	0.0228	0.0311	-0.0020	0.1075	2.8051	
4	-1.29	0.04	-0.0542	-0.1041	0.0899	0.0551	-0.0030	0.1050	1.9210	
5	-0.74	0.03	-0.0197	-0.0494	0.0179	0.0105	-0.0020	0.1098	2.5086	
6	-0.18	0.04	-0.0116	0.0122	0.0829	0.0409	-0.0030	0.1083	-1.0552	
7	0.34	0.03	0.0071	0.0711	0.0182	0.0445	-0.0030	0.1149	10.0084	
8	0.87	0.03	0.0228	0.1201	0.0280	0.0278	-0.0030	0.1149	5.2667	
9	1.39	0.03	0.0572	0.1869	0.0184	0.1122	-0.0020	0.1211	3.2678	
10	1.89	0.04	0.0689	0.2535	0.0596	0.0596	-0.0020	0.1211	3.6798	
11	2.40	0.04	0.0820	0.3092	0.0771	0.1190	-0.0030	0.1262	3.7707	
12	2.87	0.03	0.1257	0.3700	0.0283	0.0284	-0.0010	0.1268	2.9437	
13	3.35	0.04	0.1293	0.4279	0.0637	0.0768	-0.0020	0.1249	3.3100	
14	3.81	0.04	0.1383	0.4793	0.0657	0.1110	-0.0020	0.1321	3.4662	
15	4.28	0.03	0.1629	0.5169	0.0267	0.0966	-0.0010	0.1338	3.1734	
16	4.71	0.03	0.1968	0.5674	0.0465	0.0279	0.0	0.1335	2.8835	
17	5.20	0.03	0.2094	0.6248	-0.0183	0.0566	-0.0010	0.1359	2.9840	
18	5.66	0.03	0.2426	0.6623	0.0292	-0.0049	-0.0010	0.1379	2.7303	
19	6.11	0.04	0.2560	0.7145	0.1006	0.0262	-0.0010	0.1360	2.7914	
20	6.56	0.03	0.2774	0.7595	0.0791	0.1292	-0.0020	0.1348	2.7384	
21	7.01	0.01	0.2945	0.7876	0.0136	0.0570	-0.0010	0.1352	2.6747	
22	7.46	0.02	0.3335	0.8580	0.0277	0.0272	-0.0010	0.1361	2.5730	
23	7.91	0.02	0.3446	0.8734	0.0718	0.0445	-0.0010	0.1345	2.4987	
24	8.33	0.02	0.3610	0.9165	0.0761	0.0305	-0.0010	0.1357	2.5391	
25	8.74	0.01	0.3911	0.9532	0.0401	0.0768	-0.0010	0.1325	2.4369	
26	9.20	0.01	0.4472	0.9717	0.0602	0.0287	0.0	0.1292	2.1725	
27	9.58	0.01	0.4561	1.0122	0.0282	-0.0385	0.0010	0.1264	2.2190	
28	10.00	0.01	0.4899	1.0509	0.0303	0.0296	0.0	0.1254	2.1449	
29	10.41	0.01	0.5055	1.0690	0.0324	0.0476	0.0	0.1226	2.1146	
30	10.83	0.02	0.5355	1.1300	0.0606	0.0562	0.0	0.1216	2.1101	
31	11.21	0.01	0.5677	1.1485	0.0105	0.0793	0.0	0.1202	2.0237	
32	11.60	0.01	0.6068	1.1852	0.0206	0.0482	0.0	0.1156	1.9531	
33	11.95	0.0	0.6438	1.2114	-0.0295	-0.0147	0.0010	0.1142	1.8816	
34	12.32	0.01	0.6756	1.2429	0.0229	0.0589	0.0	0.1117	1.8396	
35	12.69	0.0	0.6888	1.2734	-0.0013	-0.0162	0.0010	0.1080	1.8487	
36	13.03	0.01	0.7284	1.3149	0.0210	0.0836	0.0010	0.1044	1.8052	
37	13.40	0.02	0.7581	1.3283	0.0513	0.0782	0.0010	0.1038	1.7522	
38	13.75	0.01	0.7843	1.3587	0.0292	0.0451	0.0010	0.1006	1.7323	
39	14.13	0.01	0.8271	1.4207	0.0011	0.1054	0.0020	0.0902	1.7177	
40	14.47	0.01	0.8418	1.4402	-0.0070	0.0558	0.0020	0.0901	1.7108	
41	14.86	0.01	0.8918	1.4871	-0.0593	0.2020	0.0010	0.0748	1.6676	
42	15.20	0.01	0.9316	1.5044	-0.0411	0.2635	0.0010	0.0783	1.6149	
43	15.56	0.01	0.9508	1.5415	-0.0432	0.1745	0.0010	0.0742	1.6213	
44	15.90	0.01	0.9952	1.5614	-0.0451	0.3061	0.0020	0.0633	1.5690	
45	16.23	0.01	1.0221	1.5657	-0.0537	0.3671	0.0020	0.0636	1.5319	
46	16.56	0.01	1.0453	1.6432	-0.0207	0.1770	0.0020	0.0575	1.5721	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	95	0.85	1.7	0.0	B2WUFO	0.0	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.90	0.01	1.0858	1.6335	-0.0673	0.3432	0.0020	0.0523	1.5045	
48	17.22	0.01	1.1186	1.6726	-0.0712	0.3326	0.0030	0.0448	1.4953	
49	17.53	0.01	1.1366	1.7394	-0.0795	0.2953	0.0020	0.0421	1.5304	
50	17.88	0.01	1.1811	1.7380	-0.0815	0.3551	0.0020	0.0393	1.4714	
51	18.19	0.01	1.2135	1.7486	-0.1674	0.6043	0.0030	0.0326	1.4409	
52	18.56	0.01	1.2399	1.8266	-0.1332	0.5464	0.0020	0.0226	1.4732	
53	18.88	0.01	1.2568	1.8290	-0.0695	0.3353	0.0030	0.0202	1.4552	
54	19.19	0.02	1.2674	1.8801	-0.0613	0.5457	0.0020	0.0156	1.4834	
55	19.53	0.0	1.3138	1.9581	-0.1045	0.3213	0.0030	0.0052	1.4904	
56	19.87	0.01	1.3335	2.0066	-0.0203	0.3494	0.0020	0.0028	1.5047	
57	20.18	0.0	1.3531	2.0511	-0.0818	0.2705	0.0030	-0.0019	1.5158	
58	20.55	0.0	1.4016	2.0612	-0.0387	0.1212	0.0040	-0.0066	1.4706	
59	20.89	0.01	1.4527	2.1037	-0.0180	0.2622	0.0020	-0.0137	1.4481	
60	21.20	0.0	1.4810	2.1220	-0.0509	0.1432	0.0050	-0.0173	1.4328	
61	21.53	0.01	1.5085	2.1295	0.0811	-0.0035	0.0030	-0.0195	1.4117	
62	21.87	0.01	1.5610	2.1140	0.0543	0.1560	0.0010	-0.0281	1.3543	
63	22.15	0.01	1.5547	2.2528	0.1164	-0.1635	0.0040	-0.0386	1.4491	
64	22.45	0.01	1.5902	2.2921	0.0583	-0.1036	0.0030	-0.0457	1.4414	
65	22.79	-0.01	1.6210	2.3270	-0.0179	0.1540	0.0040	-0.0560	1.4356	
66	23.10	-0.01	1.6808	2.3833	0.1381	-0.3043	0.0040	-0.0615	1.4180	
67	23.42	-0.01	1.7472	2.2563	0.2027	-0.3787	0.0030	-0.0629	1.2914	
68	23.74	-0.01	1.7704	2.4078	0.1680	-0.3422	0.0040	-0.0759	1.3601	
69	24.04	-0.01	1.7832	2.4389	0.1597	-0.1316	0.0030	-0.0808	1.3677	
70	24.36	-0.01	1.7904	2.4958	0.1889	-0.3434	0.0040	-0.0868	1.3940	
71	24.68	0.0	1.8719	2.5027	0.3248	-0.4747	0.0030	-0.0936	1.3370	
72	24.97	-0.01	1.8323	2.5482	0.1932	-0.2404	0.0040	-0.1003	1.3907	
73	25.28	0.01	1.8401	2.6072	0.2017	0.0096	0.0030	-0.1053	1.3795	
74	25.57	-0.01	1.9411	2.6317	0.1225	-0.1045	0.0050	-0.1109	1.3557	
75	25.88	-0.01	1.9952	2.6799	0.1274	-0.0943	0.0040	-0.1202	1.3532	
76	26.17	0.01	2.0340	2.7556	0.1863	0.0432	0.0030	-0.1250	1.3548	
77	26.45	0.0	2.0738	2.7549	0.1927	-0.1838	0.0040	-0.1296	1.3308	
78	26.76	0.01	2.1238	2.8509	0.2452	-0.1213	0.0050	-0.1382	1.3452	
79	27.06	0.0	2.2242	2.9033	0.2622	-0.3260	0.0040	-0.1447	1.3053	
80	27.35	0.0	2.2808	3.0151	0.1070	0.0512	0.0050	-0.1521	1.3219	
81	27.64	-0.01	2.3094	3.0230	0.1805	-0.1827	0.0050	-0.1488	1.3090	
82	27.99	-0.02	2.3984	3.1854	0.0503	0.0486	0.0060	-0.1598	1.3281	
83	28.27	-0.03	2.4368	3.2146	0.0337	0.0508	0.0070	-0.1583	1.3192	
84	28.56	-0.02	2.5276	3.3085	0.1047	0.0944	0.0060	-0.1705	1.3090	
85	28.88	-0.03	2.5448	3.3524	0.0566	-0.0032	0.0060	-0.1745	1.3174	
86	29.21	-0.02	2.5802	3.4389	0.0733	0.0884	0.0070	-0.1849	1.3328	
87	29.50	-0.02	2.7230	3.6228	0.0756	0.0492	0.0080	-0.1951	1.3304	
88	29.81	-0.01	2.7339	3.7465	0.1794	0.1158	0.0080	-0.2071	1.3704	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	96	0.92	1.7	0.0	82W0F0	0.0	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.77	0.04	-0.1111	-0.2434	0.1110	0.0680	-0.0060	0.0992	2.1914		
2	-2.49	0.04	-0.0886	-0.2529	0.0635	0.0251	-0.0060	0.0921	2.8551		
3	-1.90	0.03	-0.0828	-0.1811	0.0259	0.0107	-0.0050	0.0925	2.1870		
4	-1.33	0.05	-0.0590	-0.1194	0.1002	0.0887	-0.0060	0.0962	2.0237		
5	-0.76	0.03	-0.0436	-0.0390	0.0192	0.0271	-0.0060	0.0978	0.8936		
6	-0.23	0.03	-0.0104	0.0176	0.0176	0.0394	-0.0050	0.1010	-1.6645		
7	0.32	0.04	-0.0027	0.0828	0.0404	0.0194	-0.0050	0.1025	-30.6592		
8	0.84	0.03	0.0374	0.1436	0.0120	0.0532	-0.0050	0.1039	3.8406		
9	1.37	0.04	0.0488	0.2107	0.0820	0.0242	-0.0050	0.1074	4.3172		
10	1.87	0.04	0.0539	0.2675	0.0405	0.0553	-0.0040	0.1117	4.9636		
11	2.39	0.03	0.0963	0.3251	0.0444	0.0068	-0.0040	0.1104	3.3767		
12	2.86	0.04	0.1006	0.3921	0.0521	0.0910	-0.0050	0.1155	3.8962		
13	3.34	0.04	0.1336	0.4549	0.0483	0.0434	-0.0050	0.1175	3.4054		
14	3.79	0.04	0.1440	0.4943	0.0370	0.0732	-0.0040	0.1218	3.4333		
15	4.22	0.04	0.1551	0.5428	0.0427	0.0112	-0.0040	0.1283	3.5001		
16	4.71	0.04	0.1834	0.5972	0.0560	0.0556	-0.0040	0.1295	3.2565		
17	5.16	0.04	0.2132	0.6394	0.0425	0.0759	-0.0040	0.1332	2.9996		
18	5.64	0.02	0.2296	0.6895	0.0502	-0.0073	-0.0040	0.1375	3.0033		
19	6.08	0.02	0.2513	0.7241	0.1071	0.0271	-0.0040	0.1364	2.8817		
20	6.52	0.02	0.2727	0.7761	0.0941	0.0892	-0.0040	0.1377	2.8464		
21	7.01	0.02	0.2995	0.8256	0.0545	0.0557	-0.0030	0.1387	2.7569		
22	7.44	0.02	0.3234	0.8551	0.0395	0.0857	-0.0030	0.1366	2.6445		
23	7.89	0.01	0.3580	0.8957	0.0150	0.0520	-0.0020	0.1349	2.5022		
24	8.33	0.01	0.3816	0.9416	0.0377	0.0412	-0.0030	0.1322	2.4679		
25	8.77	0.01	0.4170	0.9739	-0.0037	0.0302	-0.0020	0.1297	2.3353		
26	9.15	0.02	0.4239	1.0043	0.0757	0.0720	-0.0030	0.1288	2.3689		
27	9.57	0.01	0.4550	1.0247	0.0569	-0.0347	-0.0020	0.1261	2.2519		
28	9.99	0.02	0.4767	1.0713	0.0664	0.0590	-0.0030	0.1236	2.2472		
29	10.41	0.02	0.5144	1.1216	0.1046	-0.0074	-0.0010	0.1190	2.1802		
30	10.61	0.02	0.5438	1.1314	0.0781	0.0267	-0.0020	0.1141	2.0804		
31	11.22	0.02	0.5652	1.1694	0.0914	-0.0060	-0.0020	0.1117	2.0690		
32	11.58	0.01	0.6171	1.2248	-0.0107	0.0670	-0.0020	0.1098	1.9846		
33	11.95	0.0	0.6571	1.2298	-0.0333	0.0256	-0.0010	0.1043	1.8715		
34	12.36	0.01	0.6700	1.2587	0.0557	-0.0010	-0.0020	0.1019	1.8786		
35	12.68	0.02	0.7134	1.3119	0.0653	0.0406	-0.0020	0.0995	1.8390		
36	13.02	0.01	0.7373	1.3345	0.0408	0.0579	-0.0010	0.0959	1.8039		
37	13.39	0.01	0.7727	1.3859	-0.0047	0.0596	-0.0010	0.0921	1.7936		
38	13.79	0.01	0.8035	1.3758	-0.0538	0.2413	-0.0020	0.0895	1.7122		
39	14.16	0.01	0.8539	1.4512	-0.0234	0.2077	-0.0010	0.0829	1.6995		
40	14.49	0.01	0.8901	1.4735	0.0013	0.1292	-0.0020	0.0804	1.6555		
41	14.82	0.02	0.9129	1.5176	0.0013	0.2072	-0.0010	0.0770	1.6624		
42	15.20	0.02	0.9474	1.5433	-0.0232	0.2534	-0.0020	0.0720	1.6290		
43	15.55	0.01	0.9926	1.5600	-0.0625	0.2430	-0.0010	0.0694	1.5717		
44	15.90	0.02	1.0238	1.6023	-0.0041	0.2627	-0.0010	0.0616	1.5651		
45	16.23	0.01	1.0428	1.6427	-0.0532	0.2534	0.0	0.0608	1.5754		
46	16.59	0.01	1.0786	1.6796	-0.0172	0.1761	0.0	0.0567	1.5573		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	96	0.92	1.7	0.0	B2W0FO	0.0	OFF	OFF	OFF	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.93	0.02	1.1163	1.7128	-0.0247	0.2735	-0.0010	0.0493	1.5344	
48	17.27	0.01	1.1559	1.7572	-0.0357	0.2096	0.0	0.0449	1.5202	
49	17.57	0.01	1.1880	1.7553	-0.0755	0.3757	0.0	0.0385	1.4775	
50	17.90	0.02	1.2265	1.8274	0.0210	0.2266	0.0	0.0322	1.4899	
51	18.23	0.01	1.2532	1.8940	-0.0756	0.2148	0.0	0.0284	1.5113	
52	18.56	0.01	1.2737	1.9273	-0.0471	0.1679	0.0010	0.0224	1.5131	
53	18.89	0.01	1.3106	1.9306	-0.0963	0.2648	0.0010	0.0148	1.4731	
54	19.25	0.0	1.3529	1.9444	-0.0528	0.1919	0.0010	0.0052	1.4372	
55	19.57	0.01	1.3713	2.0336	-0.0433	0.2116	0.0	-0.0021	1.4830	
56	19.89	0.01	1.3859	2.0252	-0.0166	0.1482	0.0010	-0.0071	1.4613	
57	20.24	0.0	1.4538	2.1461	-0.1027	0.2677	0.0010	-0.0192	1.4762	
58	20.56	0.0	1.4863	2.0866	-0.0146	0.0574	0.0	-0.0192	1.3904	
59	20.90	0.01	1.5749	1.9746	-0.0164	0.2109	0.0	-0.0191	1.2538	
60	21.22	0.01	1.6182	2.0548	-0.0987	0.1522	0.0020	-0.0241	1.2714	
61	21.59	0.01	1.6640	2.1088	0.1450	-0.1370	0.0010	-0.0281	1.2673	
62	21.91	0.0	1.7664	2.0595	0.0108	-0.0359	0.0020	-0.0291	1.1659	
63	22.23	0.0	1.7687	2.1753	0.0780	-0.1342	0.0010	-0.0375	1.2299	
64	22.53	0.0	1.8181	2.1751	0.0397	-0.0176	0.0020	-0.0428	1.1964	
65	22.85	-0.01	1.8767	2.2031	0.0840	-0.0486	0.0020	-0.0493	1.1739	
66	23.16	0.0	1.8789	2.4249	0.2067	-0.3523	0.0010	-0.0564	1.2907	
67	23.47	-0.01	1.9859	2.2500	0.1245	-0.2473	0.0020	-0.0578	1.1330	
68	23.78	-0.01	2.0875	2.2746	0.1073	-0.2132	0.0040	-0.0493	1.0897	
69	24.11	-0.01	2.1216	2.2940	0.0307	-0.0490	0.0020	-0.0556	1.0813	
70	24.44	-0.01	2.1304	2.4137	0.1556	-0.2288	0.0020	-0.0814	1.1330	
71	24.73	0.0	2.1839	2.3958	0.1810	-0.1324	0.0020	-0.0703	1.0970	
72	25.06	-0.01	2.2415	2.4842	0.1002	-0.1183	0.0030	-0.0956	1.1100	
73	25.36	-0.01	2.2716	2.6660	0.0542	0.0591	0.0030	-0.1025	1.1736	
74	25.67	-0.01	2.4084	2.6055	0.1088	0.0007	0.0020	-0.0892	1.0818	
75	25.96	0.0	2.3913	2.8104	0.1300	-0.0530	0.0030	-0.1156	1.1753	
76	26.27	-0.01	2.3629	3.1391	0.1611	-0.1765	0.0030	-0.1229	1.3285	
77	26.56	-0.01	2.3464	3.2982	0.0594	0.0118	0.0040	-0.1300	1.4050	
78	26.88	0.0	2.5711	3.1376	0.0956	0.0682	0.0050	-0.1313	1.2204	
79	27.19	-0.01	2.5949	3.4633	0.1206	-0.0521	0.0050	-0.1424	1.3321	
80	27.51	-0.01	2.6071	3.6042	0.0685	-0.0501	0.0060	-0.1465	1.3825	
81	27.83	-0.01	2.6964	3.7460	0.1190	-0.0716	0.0050	-0.1537	1.3892	
82	28.14	0.0	2.7590	3.9453	0.1152	0.0507	0.0060	-0.1604	1.4300	
83	28.42	0.0	2.8024	3.9736	-0.0085	0.3279	0.0060	-0.1667	1.4179	
84	28.75	0.0	2.9041	4.2222	0.0883	0.1344	0.0070	-0.1696	1.4538	
85	29.04	-0.01	2.9649	4.2470	0.1483	-0.0176	0.0090	-0.1780	1.4324	
86	29.38	0.0	2.9541	4.3091	0.1620	0.1542	0.0060	-0.1801	1.4587	
87	29.72	0.02	3.1235	4.6569	0.1602	0.2517	0.0080	-0.1927	1.4909	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	97	0.97	1.7	0.0	82NOFO	0.0	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.78	0.05	-0.1123	-0.2617	0.0765	0.0549	-0.0060	0.1215	2.3311		
2	-2.78	0.04	-0.0984	-0.2552	0.0490	0.0634	-0.0060	0.1219	2.5939		
3	-2.14	0.03	-0.0875	-0.2165	-0.0025	0.0365	-0.0060	0.1208	2.4743		
4	-1.54	0.04	-0.0617	-0.1236	0.0513	0.0542	-0.0060	0.1165	2.0036		
5	-0.96	0.03	-0.0444	-0.0558	0.0739	0.0325	-0.0060	0.1159	1.2577		
6	-0.43	0.04	-0.0230	-0.0018	0.0417	0.0516	-0.0060	0.1202	0.0783		
7	0.14	0.03	-0.0043	0.0820	0.0195	0.0497	-0.0060	0.1232	-19.0744		
8	0.66	0.04	0.0177	0.1292	0.0282	0.0935	-0.0060	0.1260	7.3006		
9	1.20	0.03	0.0398	0.2223	0.0283	0.0474	-0.0060	0.1308	5.5849		
10	1.69	0.04	0.0505	0.2803	0.0644	0.0218	-0.0050	0.1314	5.5505		
11	2.21	0.04	0.0722	0.3319	0.0576	0.0254	-0.0050	0.1300	4.5972		
12	2.68	0.04	0.1024	0.3836	0.0336	-0.0080	-0.0050	0.1351	3.7465		
13	3.17	0.04	0.1130	0.4507	0.0852	0.0547	-0.0060	0.1393	3.9894		
14	3.65	0.04	0.1357	0.5110	0.0459	0.0567	-0.0050	0.1477	3.7658		
15	4.13	0.04	0.1689	0.5685	0.0513	0.0772	-0.0050	0.1525	3.3661		
16	4.57	0.03	0.1769	0.6013	-0.0159	0.1092	-0.0050	0.1590	3.3993		
17	5.05	0.03	0.2038	0.6516	-0.0348	0.1017	-0.0040	0.1652	3.1976		
18	5.50	0.03	0.2369	0.7012	0.0359	0.0517	-0.0040	0.1739	2.9605		
19	5.94	0.01	0.2724	0.7605	0.0136	0.0080	-0.0040	0.1820	2.7424		
20	6.40	0.01	0.2709	0.7896	0.0429	0.0509	-0.0040	0.1840	2.9152		
21	6.86	0.01	0.3044	0.8587	-0.0240	0.0806	-0.0040	0.1893	2.8214		
22	7.35	0.0	0.3377	0.8961	-0.0102	-0.0167	-0.0030	0.1926	2.6539		
23	7.78	0.01	0.3694	0.9267	0.0173	0.0198	-0.0030	0.1879	2.5090		
24	8.21	0.01	0.4049	0.9829	0.0020	0.0852	-0.0040	0.1900	2.4272		
25	8.61	0.03	0.4178	0.9968	0.1302	0.0617	-0.0040	0.1864	2.3856		
26	9.04	0.0	0.4386	1.0547	-0.0524	0.0004	-0.0030	0.1844	2.2946		
27	9.44	0.01	0.4777	1.0999	0.0466	0.0368	-0.0030	0.1778	2.3024		
28	9.85	0.02	0.5027	1.1329	0.0660	0.0466	-0.0030	0.1753	2.2535		
29	10.28	0.01	0.5115	1.1486	0.0143	-0.0260	-0.0020	0.1660	2.2454		
30	10.69	0.02	0.5727	1.1959	0.0590	0.0834	-0.0030	0.1603	2.0881		
31	11.07	0.02	0.5965	1.2286	0.0920	0.0762	-0.0030	0.1518	2.0596		
32	11.48	0.04	0.6341	1.2740	0.0939	-0.0055	-0.0030	0.1481	2.0090		
33	11.86	0.05	0.6526	1.2881	0.1409	0.0627	-0.0040	0.1398	1.9737		
34	12.22	0.04	0.6885	1.3178	0.0876	0.0654	-0.0040	0.1367	1.9140		
35	12.60	0.04	0.7297	1.3601	0.0479	0.0799	-0.0020	0.1319	1.8639		
36	12.99	0.04	0.7682	1.4172	0.0531	0.0497	-0.0020	0.1322	1.8448		
37	13.34	0.04	0.8175	1.4642	0.0690	0.0524	-0.0020	0.1310	1.7910		
38	13.72	0.04	0.8427	1.5059	0.0691	0.1002	-0.0020	0.1298	1.7917		
39	14.08	0.04	0.8930	1.5435	0.0710	0.0256	-0.0020	0.1290	1.7284		
40	14.41	0.03	0.9300	1.5757	-0.0418	0.1495	-0.0020	0.1279	1.6986		
41	14.79	0.04	0.9642	1.6188	0.0363	0.1292	-0.0020	0.1209	1.6789		
42	15.14	0.04	1.0012	1.6390	0.0364	0.0720	-0.0010	0.1167	1.6371		
43	15.52	0.03	1.0414	1.7087	0.0174	0.1636	-0.0010	0.1168	1.6408		
44	15.85	0.03	1.0754	1.7301	-0.0034	0.1727	-0.0020	0.1108	1.6088		
45	16.18	0.02	1.1160	1.7592	0.0175	0.0915	-0.0010	0.1091	1.5764		
46	16.50	0.03	1.1609	1.7862	0.0368	0.2215	-0.0010	0.1027	1.5386		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	97	0.97	1.7	0.0	82W0F0	0.0	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
47	16.83	0.01	1.1906	1.7757	-0.0049	0.1608	-0.0010	0.1021	1.4913		
48	17.21	0.02	1.2493	1.8715	-0.0082	0.2125	-0.0020	0.0972	1.4980		
49	17.51	0.01	1.2470	1.8437	-0.0151	0.1521	-0.0010	0.0962	1.4784		
50	17.83	0.01	1.3171	1.8885	-0.0428	0.2699	-0.0010	0.0908	1.4338		
51	18.15	0.01	1.3411	1.9289	-0.0582	0.2824	-0.0010	0.0891	1.4383		
52	18.53	0.01	1.4069	1.9438	-0.1066	0.3542	0.0	0.0862	1.3816		
53	18.86	0.02	1.4587	2.0123	-0.0528	0.3169	0.0	0.0632	1.3795		
54	19.20	0.02	1.4938	2.0111	-0.0267	0.3003	0.0	0.0787	1.3463		
55	19.51	0.02	1.5305	2.0728	0.0218	0.2065	0.0	0.0773	1.3543		
56	19.84	0.01	1.6001	2.0963	-0.0592	0.2699	0.0010	0.0705	1.3101		
57	20.18	0.02	1.6727	2.1737	-0.0246	0.2414	0.0	0.0636	1.2995		
58	20.58	0.02	1.7264	2.2155	0.0204	0.1594	0.0020	0.0553	1.2833		
59	20.90	0.0	1.7741	2.2797	-0.0279	0.0021	0.0010	0.0459	1.2850		
60	21.23	0.02	1.8516	2.2992	0.0275	0.1185	0.0010	0.0407	1.2418		
61	21.54	0.01	1.8601	2.3503	0.0184	0.0005	0.0010	0.0306	1.2635		
62	21.87	0.02	1.9215	2.3842	0.0813	-0.0058	0.0020	0.0161	1.2408		
63	22.24	0.01	2.0080	2.4581	0.0677	-0.0278	0.0010	0.0086	1.2241		
64	22.55	0.01	2.0727	2.4805	0.1026	-0.0896	0.0020	-0.0020	1.1967		
65	22.85	0.02	2.1371	2.5633	0.0995	-0.0033	0.0010	-0.0107	1.1994		
66	23.18	0.02	2.1834	2.6205	0.1100	-0.0360	0.0010	-0.0166	1.2002		
67	23.49	0.02	2.2651	2.6835	0.1364	0.0070	0.0020	-0.0257	1.1826		
68	23.83	0.02	2.3449	2.8044	0.0532	0.0275	0.0030	-0.0316	1.1710		
69	24.12	0.01	2.4628	2.8863	0.2014	-0.1709	0.0020	-0.0355	1.1720		
70	24.45	0.0	2.5410	3.0028	0.1492	-0.1509	0.0030	-0.0368	1.1817		
71	24.79	0.0	2.6305	3.0705	0.1365	-0.0966	0.0030	-0.0398	1.1673		
72	25.12	-0.01	2.7090	3.1884	0.1127	-0.0868	0.0030	-0.0481	1.1770		
73	25.44	0.0	2.7664	3.2541	0.1198	-0.0367	0.0030	-0.0538	1.1781		
74	25.78	0.0	2.9263	3.3862	0.0347	0.2104	0.0040	-0.0581	1.1571		
75	26.08	0.01	2.9713	3.4692	0.1681	0.0707	0.0040	-0.0580	1.1676		
76	26.39	-0.01	3.0563	3.6062	0.0453	0.0816	0.0050	-0.0635	1.1799		
77	26.70	0.0	3.1430	3.6218	0.1095	0.0077	0.0040	-0.0714	1.1523		
78	26.99	0.0	3.1960	3.6936	0.1269	0.0093	0.0050	-0.0752	1.1557		
79	27.29	-0.01	3.2803	3.8045	0.0924	0.0876	0.0060	-0.0845	1.1598		
80	27.62	0.0	3.3694	3.9108	0.1066	0.1127	0.0050	-0.0915	1.1607		
81	27.94	-0.01	3.4665	4.0417	-0.0060	0.2104	0.0060	-0.1026	1.1659		
82	28.22	0.0	3.4917	4.1014	0.0722	0.1649	0.0070	-0.1106	1.1746		
83	28.51	-0.01	3.5891	4.1770	0.0568	0.1625	0.0060	-0.1217	1.1638		
84	28.86	0.01	3.6928	4.2798	0.0657	0.2930	0.0060	-0.1323	1.1590		
85	29.19	-0.02	3.7807	4.4277	-0.0560	0.2504	0.0090	-0.1315	1.1711		
86	29.47	-0.04	3.7780	4.3895	-0.0177	-0.1212	0.0130	-0.1334	1.1619		
87	29.80	0.07	3.8721	4.7577	0.3131	0.8845	0.0050	-0.1491	1.2287		
88	30.11	-0.04	3.8916	4.8814	-0.0124	-0.1426	0.0110	-0.1565	1.2543		
89	30.25	0.07	3.9016	5.1784	0.2152	0.5596	0.0060	-0.1614	1.3272		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	98	1.01	1.7	0.0	B2M0FO	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.19	0.04	-0.1226	-0.2823	0.0400	0.0450	-0.0070	0.1772	2.3031	
2	-2.63	0.05	-0.1153	-0.2705	0.0755	0.0317	-0.0070	0.1757	2.3467	
3	-2.02	0.04	-0.0893	-0.1880	0.0521	0.0411	-0.0080	0.1707	2.1050	
4	-1.40	0.01	-0.0540	-0.1364	0.0262	-0.0337	-0.0060	0.1726	2.5259	
5	-0.86	0.03	-0.0449	-0.0441	0.0750	0.0424	-0.0080	0.1729	0.9831	
6	-0.33	0.04	-0.0131	0.0103	0.0483	0.0214	-0.0070	0.1780	-0.7893	
7	0.23	0.04	0.0122	0.0949	0.0385	0.0501	-0.0070	0.1818	7.7603	
8	0.74	0.05	0.0244	0.1578	0.0828	0.0371	-0.0070	0.1870	6.4689	
9	1.27	0.04	0.0398	0.2253	0.0386	0.0899	-0.0070	0.1851	5.6603	
10	1.78	0.04	0.0788	0.2816	0.0174	0.0606	-0.0070	0.1891	3.5746	
11	2.29	0.04	0.0872	0.3429	0.0698	0.0333	-0.0070	0.1924	3.9326	
12	2.76	0.03	0.1099	0.4181	-0.0054	0.0736	-0.0060	0.1995	3.8047	
13	3.27	0.04	0.1227	0.4682	0.0470	0.0352	-0.0060	0.2042	3.8160	
14	3.73	0.04	0.1559	0.5247	0.0210	0.0366	-0.0060	0.2086	3.3659	
15	4.21	0.04	0.1810	0.5865	0.0484	0.0715	-0.0060	0.2103	3.2409	
16	4.66	0.04	0.2016	0.6387	0.0355	0.0437	-0.0060	0.2134	3.1685	
17	5.12	0.04	0.2082	0.6814	-0.0001	0.0911	-0.0060	0.2195	3.2734	
18	5.56	0.03	0.2396	0.7435	0.0836	0.1039	-0.0060	0.2225	3.1033	
19	6.05	0.02	0.2668	0.7994	0.0411	0.0475	-0.0050	0.2266	2.9965	
20	6.52	0.02	0.2828	0.8570	0.0340	0.0448	-0.0060	0.2298	3.0307	
21	6.96	0.02	0.3142	0.8830	0.0706	0.0512	-0.0060	0.2269	2.8107	
22	7.40	0.01	0.3485	0.9490	0.0150	-0.0070	-0.0040	0.2217	2.7234	
23	7.82	0.02	0.3666	0.9796	0.0544	0.0526	-0.0050	0.2199	2.6726	
24	8.28	0.02	0.4066	1.0165	0.0726	-0.0046	-0.0050	0.2113	2.4997	
25	8.71	0.01	0.4362	1.0492	0.0284	0.0062	-0.0040	0.2070	2.3942	
26	9.16	0.0	0.4538	1.0964	-0.0158	-0.0244	-0.0040	0.2102	2.4158	
27	9.57	-0.01	0.5027	1.1519	-0.0550	-0.0400	-0.0040	0.2017	2.2913	
28	9.98	0.02	0.5317	1.1883	0.0763	0.0892	-0.0050	0.2022	2.2346	
29	10.39	0.03	0.5534	1.2269	0.1296	0.0442	-0.0050	0.2005	2.2170	
30	10.78	0.03	0.5985	1.2648	0.1159	0.0427	-0.0040	0.1949	2.1132	
31	11.18	0.01	0.6229	1.3076	0.0522	0.0129	-0.0040	0.1921	2.0992	
32	11.56	0.03	0.6669	1.3390	0.0335	0.0265	-0.0040	0.1949	2.0078	
33	11.92	0.04	0.6997	1.3771	0.0602	0.0367	-0.0040	0.1939	1.9681	
34	12.32	0.02	0.7312	1.4310	0.0012	-0.0417	-0.0030	0.1865	1.9570	
35	12.72	0.03	0.7631	1.4573	0.0177	0.0342	-0.0030	0.1847	1.9097	
36	13.07	0.03	0.7869	1.5050	0.0484	-0.0465	-0.0030	0.1830	1.9177	
37	13.43	0.04	0.8314	1.5597	0.0883	0.0164	-0.0040	0.1817	1.8760	
38	13.78	0.02	0.8664	1.5967	-0.0294	0.0672	-0.0030	0.1790	1.8429	
39	14.16	0.03	0.9217	1.6693	0.0099	0.0261	-0.0030	0.1780	1.8111	
40	14.52	0.02	0.9483	1.6970	-0.0407	0.0590	-0.0020	0.1784	1.7896	
41	14.88	0.02	1.0025	1.7601	-0.0422	0.0541	-0.0020	0.1743	1.7558	
42	15.25	0.03	1.0426	1.7950	0.0183	0.0014	-0.0020	0.1694	1.7217	
43	15.60	0.03	1.0731	1.8333	0.0331	0.0567	-0.0020	0.1684	1.7085	
44	15.95	0.05	1.1162	1.8949	0.0561	0.1954	-0.0030	0.1637	1.6977	
45	16.28	0.03	1.1681	1.9391	0.0022	0.1229	-0.0010	0.1581	1.6600	
46	16.63	0.03	1.2115	1.9924	0.1069	0.0253	-0.0020	0.1577	1.6445	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	98	1.01	1.7	0.0	B2W0F0	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.96	0.01	1.2610	2.0091	-0.0352	0.1433	-0.0010	0.1506	1.5932	
48	17.30	0.02	1.2921	2.0515	0.0449	0.0751	-0.0010	0.1493	1.5877	
49	17.64	0.01	1.3434	2.1117	0.0254	0.0374	-0.0010	0.1449	1.5719	
50	17.97	0.0	1.4007	2.1555	-0.0218	0.0425	0.0	0.1436	1.5368	
51	18.31	0.01	1.4414	2.1915	0.0403	0.0206	-0.0010	0.1326	1.5204	
52	18.64	0.01	1.4840	2.1928	0.0240	0.0494	0.0	0.1240	1.4776	
53	18.97	0.0	1.5198	2.2177	-0.0053	0.0004	0.0	0.1129	1.4592	
54	19.30	0.02	1.5745	2.2581	0.0160	0.1706	0.0	0.1008	1.4342	
55	19.65	0.01	1.6272	2.2913	0.0080	0.0868	0.0	0.0937	1.4082	
56	19.97	0.02	1.6660	2.3150	0.0146	0.1515	0.0	0.0850	1.3920	
57	20.31	0.02	1.7261	2.3269	-0.0509	0.3512	0.0	0.0721	1.3481	
58	20.66	0.02	1.7842	2.3895	0.0148	0.2083	0.0	0.0587	1.3393	
59	21.00	0.01	1.8185	2.4095	-0.0229	0.1660	0.0	0.0476	1.3250	
60	21.33	0.02	1.8947	2.4568	0.0745	-0.0253	0.0	0.0349	1.2967	
61	21.69	0.01	1.9503	2.5148	0.0367	0.0366	0.0010	0.0284	1.2894	
62	22.00	0.02	2.0177	2.5755	0.0583	0.0694	0.0010	0.0236	1.2764	
63	22.34	0.02	2.1162	2.6306	0.0105	0.1453	0.0010	0.0149	1.2430	
64	22.65	0.01	2.1882	2.6837	0.1017	-0.0914	0.0010	0.0124	1.2378	
65	22.96	0.02	2.2531	2.7759	0.0952	0.1497	0.0010	0.0138	1.2320	
66	23.32	0.02	2.3636	2.8752	0.1351	-0.1041	0.0010	0.0205	1.2164	
67	23.64	0.01	2.5048	2.9905	0.1600	-0.2470	0.0010	0.0322	1.1939	
68	23.98	0.02	2.5813	3.1274	0.1231	-0.0733	0.0030	0.0373	1.2116	
69	24.31	0.01	2.6783	3.2354	0.1340	-0.1406	0.0030	0.0422	1.2080	
70	24.66	0.0	2.7285	3.3861	0.1005	-0.0043	0.0020	0.0161	1.2410	
71	24.99	0.0	2.8811	3.4275	0.0827	0.0672	0.0020	0.0269	1.1896	
72	25.34	0.01	2.9452	3.4537	0.1661	0.0185	0.0040	0.0452	1.1727	
73	25.65	0.0	3.0587	3.5018	0.1916	-0.1152	0.0040	0.0411	1.1449	
74	25.98	-0.02	3.1565	3.6199	0.0522	-0.0151	0.0060	0.0360	1.1468	
75	26.26	0.01	3.1847	3.6584	0.1548	0.0753	0.0040	0.0266	1.1487	
76	26.59	0.0	3.2592	3.7951	0.1357	0.0290	0.0050	0.0058	1.1644	
77	26.87	0.0	3.3418	3.8904	0.1037	0.1678	0.0060	-0.0083	1.1642	
78	27.16	0.0	3.3799	4.0261	0.0702	0.3177	0.0050	-0.0282	1.1912	
79	27.52	0.0	3.4868	4.2142	0.1137	0.1578	0.0060	-0.0442	1.2100	
80	27.82	-0.01	3.5440	4.2811	0.0706	0.1601	0.0060	-0.0427	1.2080	
81	28.15	0.0	3.6281	4.4274	0.0290	0.3654	0.0070	-0.0429	1.2203	
82	28.43	0.0	3.7158	4.4056	0.0873	0.2327	0.0070	-0.0443	1.1856	
83	28.73	-0.01	3.7736	4.5047	0.0019	0.3003	0.0070	-0.0480	1.1937	
84	29.06	0.0	3.8656	4.6528	0.1005	0.2803	0.0070	-0.0577	1.2037	
85	29.40	0.0	3.9543	4.7057	0.0329	0.3439	0.0070	-0.0685	1.1900	
86	29.69	-0.02	3.9780	4.9245	0.0232	0.1025	0.0090	-0.0737	1.2379	
87	29.99	-0.08	4.0827	4.8259	-0.0852	-0.7046	0.0140	-0.0915	1.1820	
88	30.33	-0.01	4.1729	4.9966	0.0640	0.1244	0.0070	-0.0977	1.1974	
89	30.38	-0.03	4.2367	5.1291	-0.0410	0.1944	0.0070	-0.0689	1.2106	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	99	1.05	1.7	0.0	BZWOFO	0.0	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.79	0.03	-0.1046	-0.2735	-0.0102	-0.0057	-0.0070	0.2011	2.6153	
2	-2.74	0.04	-0.1345	-0.3047	0.0135	0.0551	-0.0080	0.2119	2.2654	
3	-2.11	0.05	-0.0931	-0.2136	0.0085	0.0531	-0.0080	0.2075	2.2950	
4	-1.49	0.03	-0.0670	-0.1622	0.0528	0.0701	-0.0080	0.2093	2.4209	
5	-0.93	0.04	-0.0565	-0.0819	0.0644	0.0638	-0.0080	0.2066	1.4496	
6	-0.37	0.03	-0.0293	-0.0040	0.0153	0.0716	-0.0080	0.2088	0.1358	
7	0.16	0.04	-0.0021	0.0709	0.0746	-0.0104	-0.0080	0.2146	-33.7809	
8	0.71	0.04	0.0161	0.1334	0.0747	0.0534	-0.0080	0.2152	8.2894	
9	1.22	0.04	0.0321	0.2140	0.0555	0.0323	-0.0080	0.2213	6.6685	
10	1.72	0.04	0.0554	0.2634	0.1002	0.0357	-0.0080	0.2280	4.7552	
11	2.24	0.04	0.0773	0.3277	0.0476	0.0993	-0.0070	0.2226	4.2404	
12	2.70	0.04	0.0913	0.3731	0.0700	0.0270	-0.0070	0.2190	4.0874	
13	3.22	0.03	0.1288	0.4646	-0.0065	0.0721	-0.0070	0.2373	3.6078	
14	3.68	0.04	0.1495	0.5036	0.0430	0.0398	-0.0070	0.2405	3.3692	
15	4.15	0.04	0.1668	0.5504	0.0661	0.0705	-0.0060	0.2380	3.3002	
16	4.61	0.04	0.1991	0.6152	0.0894	0.0568	-0.0070	0.2539	3.1103	
17	5.06	0.02	0.2129	0.6649	0.0177	0.0362	-0.0060	0.2630	3.1232	
18	5.53	0.03	0.2578	0.7230	0.0259	0.0269	-0.0070	0.2616	2.8048	
19	5.97	0.03	0.2711	0.7694	0.1026	0.0813	-0.0060	0.2606	2.8383	
20	6.46	0.02	0.2915	0.8338	0.0467	0.0456	-0.0060	0.2684	2.8607	
21	6.92	0.01	0.3231	0.8615	0.0292	0.0631	-0.0060	0.2734	2.6669	
22	7.38	0.01	0.3468	0.9004	0.0581	0.0017	-0.0060	0.2810	2.5965	
23	7.80	0.03	0.3818	0.9534	0.1269	0.0643	-0.0060	0.2775	2.4973	
24	8.23	0.01	0.4208	0.9936	0.0231	0.0856	-0.0050	0.2805	2.3610	
25	8.65	0.02	0.4477	1.0289	0.0615	0.0209	-0.0050	0.2808	2.2981	
26	9.09	0.02	0.4833	1.0631	0.0089	0.0615	-0.0050	0.2607	2.1995	
27	9.48	0.03	0.5069	1.1011	0.1046	0.0166	-0.0050	0.2784	2.1720	
28	9.93	0.01	0.5485	1.1228	0.0138	-0.0473	-0.0050	0.2719	2.0470	
29	10.31	0.02	0.5712	1.1600	0.0840	-0.0096	-0.0050	0.2694	2.0306	
30	10.74	0.03	0.6172	1.2096	0.0953	0.0416	-0.0060	0.2646	1.9598	
31	11.13	0.03	0.6450	1.2167	0.1145	0.0547	-0.0060	0.2614	1.8863	
32	11.53	0.05	0.6753	1.2773	0.0986	0.0989	-0.0050	0.2564	1.8414	
33	11.91	0.01	0.7066	1.2994	-0.0511	-0.0525	-0.0050	0.2517	1.8333	
34	12.33	0.03	0.7666	1.3674	0.0701	-0.0851	-0.0040	0.2515	1.7838	
35	12.66	0.03	0.7647	1.3821	0.0383	-0.0046	-0.0040	0.2501	1.7613	
36	13.01	0.03	0.8189	1.4322	0.0113	0.0052	-0.0040	0.2490	1.7490	
37	13.34	0.03	0.8551	1.4605	0.0241	0.0653	-0.0040	0.2422	1.7080	
38	13.76	0.03	0.8875	1.4892	0.0401	0.0224	-0.0040	0.2406	1.6780	
39	14.15	0.03	0.9527	1.5319	0.0482	-0.0205	-0.0040	0.2370	1.6000	
40	14.50	0.04	0.9773	1.5464	0.0499	0.0691	-0.0040	0.2370	1.5824	
41	14.84	0.03	1.0257	1.5927	-0.0376	0.1056	-0.0030	0.2385	1.5528	
42	15.22	0.05	1.0592	1.6258	0.0977	0.0752	-0.0030	0.2334	1.5350	
43	15.57	0.04	1.0839	1.6552	0.0118	0.1555	-0.0030	0.2359	1.5271	
44	15.91	0.05	1.1311	1.6751	0.0819	0.1273	-0.0040	0.2358	1.4810	
45	16.24	0.01	1.1831	1.7412	-0.0356	0.1278	-0.0020	0.2282	1.4716	
46	16.56	0.0	1.2454	1.7749	-0.0434	0.0628	-0.0020	0.2283	1.4251	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	99	1.05	1.7	0.0	0.2W0F0	0.0	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.93	0.02	1.2943	1.8135	0.0297	0.1984	-0.0030	0.2221	1.4011	
48	17.28	0.01	1.3356	1.8426	-0.0464	0.1909	-0.0020	0.2142	1.3796	
49	17.58	0.01	1.3640	1.8109	-0.0527	0.1508	-0.0020	0.2142	1.3276	
50	17.90	0.0	1.4330	1.8703	-0.0795	0.1113	-0.0020	0.2115	1.3051	
51	18.22	0.01	1.4661	1.8659	-0.1064	0.3489	-0.0020	0.2130	1.2727	
52	18.58	0.02	1.5172	1.8814	-0.0190	0.2416	-0.0020	0.2057	1.2400	
53	18.94	0.0	1.5655	1.9428	-0.1171	0.2289	-0.0010	0.1999	1.2410	
54	19.30	0.02	1.6224	1.9621	-0.0599	0.3618	-0.0010	0.1852	1.2094	
55	19.61	0.01	1.6480	1.9833	-0.0424	0.1583	-0.0010	0.1905	1.2034	
56	19.94	0.02	1.7212	2.0178	-0.0677	0.3927	0.0	0.1743	1.1723	
57	20.25	0.03	1.7685	2.1015	0.0100	0.2890	-0.0010	0.1801	1.1883	
58	20.62	0.02	1.8239	2.1150	0.0116	0.1857	0.0	0.1726	1.1596	
59	20.97	0.01	1.9000	2.1694	-0.0183	0.1166	-0.0010	0.1610	1.1418	
60	21.35	0.02	1.9710	2.2259	0.0784	0.0492	-0.0010	0.1523	1.1293	
61	21.65	0.02	2.0411	2.2657	0.1117	-0.1174	0.0	0.1486	1.1100	
62	21.97	0.02	2.1208	2.3248	0.0818	-0.0205	0.0010	0.1322	1.0931	
63	22.30	0.01	2.2108	2.4389	0.1105	-0.1527	0.0	0.1255	1.0592	
64	22.63	0.01	2.2955	2.4746	0.1438	-0.1563	0.0	0.1165	1.0780	
65	22.95	0.02	2.3844	2.5381	0.1187	-0.0572	0.0010	0.1104	1.0645	
66	23.27	0.03	2.4791	2.5755	0.1664	-0.0490	0.0	0.1256	1.0389	
67	23.58	0.03	2.4967	2.6739	0.1581	-0.0933	0.0010	0.0971	1.0710	
68	23.95	0.0	2.6437	2.7830	0.0907	-0.0460	0.0020	0.1037	1.0527	
69	24.30	0.01	2.7335	2.8422	0.1527	0.0192	0.0020	0.0911	1.0397	
70	24.63	0.01	2.8158	2.9269	0.1181	0.0287	0.0020	0.0861	1.0345	
71	24.97	0.02	2.8916	3.0378	0.1881	-0.0023	0.0020	0.0821	1.0506	
72	25.28	0.01	2.9742	3.1452	0.2105	-0.0247	0.0030	0.0576	1.0575	
73	25.59	0.0	3.0497	3.1644	0.1107	-0.0560	0.0020	0.0791	1.0376	
74	25.89	0.0	3.1527	3.2992	0.1077	-0.0208	0.0030	0.0856	1.0465	
75	26.18	0.02	3.2379	3.3679	0.1713	0.1062	0.0030	0.0809	1.0402	
76	26.50	-0.01	3.3479	3.4429	0.0349	0.1011	0.0040	0.0834	1.0284	
77	26.82	-0.01	3.4206	3.4861	0.1079	0.0969	0.0030	0.0861	1.0192	
78	27.12	-0.01	3.5030	3.5536	0.0684	0.1492	0.0030	0.0809	1.0144	
79	27.45	-0.01	3.6468	3.6773	0.0544	0.1898	0.0050	0.0777	1.0084	
80	27.76	0.0	3.7342	3.7449	0.0846	0.1635	0.0040	0.0671	1.0029	
81	28.08	-0.01	3.7932	3.8263	0.0784	0.1872	0.0050	0.0642	1.0087	
82	28.41	-0.01	3.8862	3.9781	0.0089	0.2875	0.0050	0.0392	1.0237	
83	28.72	0.0	3.9622	3.9807	0.1151	0.2448	0.0050	0.0321	1.0047	
84	29.04	-0.01	4.0180	4.0346	-0.0067	0.2823	0.0060	0.0262	1.0041	
85	29.35	0.01	4.1344	4.1526	0.0474	0.3826	0.0050	0.0027	1.0044	
86	29.66	-0.01	4.2603	4.2692	-0.0096	0.2894	0.0070	-0.0104	1.0021	
87	29.97	0.0	4.2664	4.3236	0.0414	0.3390	0.0060	-0.0071	1.0134	
88	30.32	-0.01	4.4105	4.4279	0.1355	-0.0727	0.0110	-0.0244	1.0039	
89	30.35	-0.01	4.4445	4.4523	-0.0188	0.2993	0.0070	-0.0159	1.0017	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.0	1.10	1.7	0.0	0.2W0F0	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.79	0.04	-0.1313	-0.2651	0.0409	-0.0123	-0.0070	0.2292	2.0197	
2	-2.64	0.04	-0.1248	-0.2582	0.0255	0.1203	-0.0070	0.2343	2.0696	
3	-1.49	0.04	-0.0977	-0.1892	0.1059	0.1557	-0.0080	0.2202	1.9367	
4	-1.40	0.03	-0.0683	-0.1064	0.1048	-0.0177	-0.0070	0.2197	1.5575	
5	-0.86	0.02	-0.0504	-0.0424	0.0083	0.1604	-0.0080	0.2202	0.8421	
6	-0.30	0.02	-0.0303	0.0514	0.0102	0.1497	-0.0080	0.2235	-1.6970	
7	0.23	0.02	-0.0040	0.1146	0.0180	0.1688	-0.0070	0.2227	-28.6500	
8	0.78	0.02	0.0190	0.1794	0.0411	0.0894	-0.0070	0.2295	9.4421	
9	1.28	0.03	0.0379	0.2559	0.0227	0.1772	-0.0080	0.2318	6.7530	
10	1.81	0.03	0.0489	0.3085	0.0720	0.0702	-0.0070	0.2351	6.3096	
11	2.30	0.01	0.0790	0.3704	-0.0845	0.2553	-0.0060	0.2458	4.6886	
12	2.80	0.03	0.1095	0.4156	0.1089	0.0345	-0.0070	0.2485	3.7963	
13	3.28	0.0	0.1383	0.4923	-0.0108	0.0221	-0.0050	0.2590	3.5602	
14	3.75	0.02	0.1463	0.5381	0.0507	0.0270	-0.0060	0.2706	3.6786	
15	4.21	0.01	0.1710	0.6185	-0.0137	0.1352	-0.0060	0.2795	3.6175	
16	4.68	0.03	0.1847	0.6493	0.1154	0.0544	-0.0060	0.2895	3.5161	
17	5.14	0.0	0.2304	0.7003	-0.0334	0.0568	-0.0050	0.2898	3.0401	
18	5.61	0.04	0.2246	0.7805	0.1308	0.1409	-0.0060	0.3059	3.3997	
19	6.07	0.01	0.2662	0.8432	-0.0608	0.1291	-0.0040	0.3101	3.1680	
20	6.54	0.02	0.2809	0.8766	0.0097	0.0914	-0.0050	0.3135	3.1212	
21	6.99	0.04	0.3318	0.9344	0.0526	0.1673	-0.0050	0.3117	2.8164	
22	7.44	0.03	0.3433	0.9803	0.0409	0.0957	-0.0050	0.3146	2.8558	
23	7.89	0.01	0.3875	1.0062	-0.0267	0.0784	-0.0040	0.3090	2.5964	
24	8.32	0.01	0.3924	1.0544	0.0115	0.0399	-0.0030	0.3083	2.6866	
25	8.79	0.02	0.4315	1.0726	0.0407	0.0570	-0.0050	0.3043	2.4855	
26	9.19	0.02	0.4597	1.1211	0.0484	0.1692	-0.0040	0.3006	2.4386	
27	9.58	-0.05	0.4939	1.1562	-0.0280	0.1262	-0.0040	0.2952	2.3409	
28	10.02	0.05	0.5225	1.1852	0.1835	0.1581	-0.0040	0.2940	2.2682	
29	10.40	0.04	0.5538	1.2034	0.0211	0.1454	-0.0030	0.2906	2.1728	
30	10.84	0.04	0.6034	1.2699	0.0458	0.0595	-0.0030	0.2946	2.1046	
31	11.24	0.03	0.6401	1.3215	0.0874	0.0406	-0.0040	0.2862	2.0645	
32	11.65	0.02	0.6792	1.3458	0.0937	-0.0502	-0.0030	0.2896	1.9814	
33	11.98	0.05	0.7004	1.3411	0.0694	0.1230	-0.0030	0.2864	1.9148	
34	12.37	0.04	0.7540	1.4001	0.0803	0.0406	-0.0030	0.2821	1.8569	
35	12.72	0.05	0.7804	1.4401	0.1252	0.0887	-0.0040	0.2808	1.8454	
36	13.09	0.03	0.8243	1.4846	0.0513	0.1942	-0.0030	0.2810	1.8011	
37	13.44	0.0	0.8622	1.4826	0.0018	-0.0345	-0.0020	0.2750	1.7196	
38	13.81	0.03	0.9002	1.5174	0.0560	0.2066	-0.0030	0.2760	1.6856	
39	14.18	0.02	0.9551	1.5865	0.0236	0.2159	-0.0020	0.2727	1.6632	
40	14.55	0.02	0.9863	1.6238	-0.0885	0.1044	-0.0020	0.2736	1.6464	
41	14.94	0.01	1.0171	1.6587	-0.0426	0.1926	-0.0020	0.2664	1.6309	
42	15.28	0.02	1.0584	1.6849	-0.0035	0.2704	-0.0020	0.2620	1.5920	
43	15.63	0.04	1.1061	1.7091	-0.0208	0.3111	-0.0020	0.2558	1.5452	
44	15.95	0.02	1.1492	1.7886	-0.1272	0.2790	-0.0010	0.2566	1.5563	
45	16.31	0.02	1.1712	1.8028	-0.0454	0.2785	-0.0010	0.2518	1.5392	
46	16.64	0.01	1.2017	1.7921	-0.0840	0.3706	-0.0020	0.2407	1.4913	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.0	1.10	1.7	0.0	B2WUFO	0.0	OFF	OFF	OFF	OFF
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.02	0.02	1.2670	1.8937	-0.0531	0.3453	-0.0010	0.2403	1.4946	
48	17.33	0.03	1.3506	1.8936	-0.0390	0.4775	-0.0010	0.2346	1.4020	
49	17.64	0.03	1.3281	1.9431	-0.0142	0.2748	0.0	0.2386	1.4631	
50	17.97	0.02	1.3833	1.9938	-0.0744	0.4871	0.0	0.2363	1.4413	
51	18.35	0.0	1.4150	2.0655	-0.2137	0.4401	0.0010	0.2257	1.4597	
52	18.69	0.01	1.4736	2.0814	-0.0666	0.2242	0.0	0.2232	1.4125	
53	19.03	0.02	1.5168	2.1439	0.0326	0.1513	0.0	0.2208	1.4134	
54	19.35	0.01	1.5461	2.1449	-0.1205	0.4356	0.0	0.2183	1.3873	
55	19.67	0.02	1.6105	2.2597	0.0389	0.2465	0.0	0.2084	1.4031	
56	19.99	0.01	1.6483	2.2748	0.0080	0.1688	0.0	0.2065	1.3801	
57	20.33	0.0	1.7583	2.2118	-0.0180	0.1162	0.0010	0.2025	1.2579	
58	20.72	0.0	1.8731	2.2271	-0.0796	0.1874	0.0	0.1931	1.2050	
59	21.08	0.01	1.9656	2.3744	0.0024	0.1056	0.0010	0.1828	1.2080	
60	21.40	0.04	1.9394	2.3791	0.2302	0.0327	0.0	0.1787	1.2267	
61	21.76	0.01	2.1157	2.4147	0.0182	0.1575	0.0010	0.1671	1.1392	
62	22.10	0.03	2.2915	2.5441	0.0820	0.2792	0.0010	0.1555	1.1103	
63	22.41	0.0	2.3086	2.5942	0.0511	0.0315	0.0020	0.1577	1.1237	
64	22.73	0.01	2.3820	2.6484	0.1240	0.0014	0.0030	0.1536	1.1119	
65	23.04	-0.01	2.4536	2.6972	0.0157	0.0860	0.0020	0.1477	1.0993	
66	23.38	0.01	2.4992	2.7883	0.1026	0.1373	0.0020	0.1422	1.1157	
67	23.73	0.0	2.6883	2.8744	0.1385	-0.0579	0.0040	0.1332	1.0692	
68	24.07	0.02	2.7199	2.9692	0.2037	0.0128	0.0030	0.1303	1.0916	
69	24.40	-0.01	2.8635	3.0501	0.0737	0.0288	0.0040	0.1233	1.0652	
70	24.72	0.0	2.8764	3.0891	0.0179	0.2329	0.0030	0.1214	1.0739	
71	25.02	0.0	2.9905	3.1243	0.0572	0.1759	0.0040	0.1380	1.0448	
72	25.37	0.01	3.1073	3.2868	0.0912	0.3513	0.0040	0.1108	1.0578	
73	25.67	0.05	3.1113	3.2952	0.1238	0.3016	0.0040	0.1128	1.0591	
74	26.02	0.0	3.2723	3.4528	0.1442	0.1431	0.0040	0.1066	1.0552	
75	26.32	0.0	3.3116	3.5427	0.1009	0.2487	0.0050	0.1045	1.0698	
76	26.61	0.0	3.3789	3.6155	0.1150	0.1410	0.0050	0.0985	1.0712	
77	26.92	0.01	3.5090	3.6572	0.1106	0.1941	0.0060	0.0914	1.0422	
78	27.21	0.0	3.5927	3.7300	0.0891	0.1482	0.0050	0.1183	1.0382	
79	27.54	-0.01	3.6569	3.7751	0.0752	0.2287	0.0060	0.1131	1.0323	
80	27.85	0.0	3.7393	3.8868	0.0830	0.1588	0.0070	0.0773	1.0394	
81	28.19	-0.01	3.8914	3.9048	0.0600	0.1880	0.0070	0.1029	1.0035	
82	28.47	-0.01	3.9307	3.8758	0.0757	0.1450	0.0070	0.0957	0.9860	
83	28.81	0.01	4.0208	4.0437	0.1409	0.2037	0.0070	0.0903	1.0057	
84	29.13	0.0	4.1393	4.1477	0.1024	0.1356	0.0070	0.0852	1.0020	
85	29.42	0.01	4.1448	4.1150	0.1910	0.1106	0.0070	0.0792	0.9928	
86	29.74	-0.01	4.2837	4.1794	0.0546	0.1455	0.0070	0.0766	0.9756	
87	30.08	-0.02	4.4843	4.1986	-0.0690	0.2366	0.0070	0.0680	0.9363	
88	30.37	-0.01	4.5272	4.4105	0.1728	0.0921	0.0080	0.0467	0.9742	
89	30.35	-0.01	4.5480	4.2124	0.0830	0.2188	0.0090	0.0589	0.9262	

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION
6	102	0.85	1.7	0.0	B2W0F13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.96	0.0649	-0.1048	3.3932	-6.3532	0.0130	0.3183	-1.6157		
2	0.01	-19.60	0.0724	-0.1363	3.3538	-6.3510	0.0210	0.3144	-1.8034		
3	0.01	-18.85	0.0828	-0.1439	3.2551	-6.2509	0.0160	0.3029	-1.7342		
4	0.01	-18.05	0.0919	-0.1596	3.1584	-6.0515	0.0200	0.2957	-1.7373		
5	0.01	-17.16	0.0560	-0.0814	2.9861	-5.8933	0.0120	0.2945	-1.4536		
6	0.01	-16.36	0.0619	-0.0796	2.8460	-5.7172	0.0110	0.2861	-1.2869		
7	0.0	-15.52	0.0516	-0.1532	2.6652	-5.4910	0.0110	0.2795	-2.9698		
8	0.01	-14.73	0.0369	-0.0976	2.5699	-5.3416	0.0030	0.2761	-2.6466		
9	0.01	-13.88	0.0446	-0.0844	2.4060	-5.1851	0.0130	0.2674	-1.8933		
10	0.0	-13.06	0.0612	-0.1867	2.3346	-5.0372	0.0240	0.2544	-3.0503		
11	0.0	-12.25	0.0395	-0.1333	2.1705	-4.8505	0.0240	0.2486	-3.3747		
12	0.0	-11.51	0.0602	-0.2243	2.0324	-4.7142	0.0270	0.2433	-3.7256		
13	-0.01	-10.72	0.1413	-0.5647	2.0060	-4.9162	0.0590	0.2341	-3.9973		
14	-0.01	-9.99	0.1432	-0.5244	1.9285	-4.8997	0.0620	0.2306	-3.6626		
15	0.0	-9.21	0.1052	-0.3452	1.9973	-5.4939	0.0550	0.2194	-3.2821		
16	0.0	-8.46	0.0522	-0.1721	2.0362	-5.9653	0.0370	0.2131	-3.2965		
17	0.0	-7.65	0.0633	-0.1776	2.0415	-6.2717	0.0300	0.2082	-2.8060		
18	0.0	-6.87	0.0541	-0.1427	1.9684	-6.2634	0.0200	0.2081	-2.6384		
19	0.0	-6.03	0.0432	-0.1015	1.8675	-6.0310	0.0150	0.2013	-2.3491		
20	0.0	-5.30	0.0366	-0.0742	1.7904	-5.8631	0.0170	0.2004	-2.0284		
21	0.0	-4.51	0.0375	-0.0935	1.6435	-5.6844	0.0100	0.1944	-2.4933		
22	0.0	-3.73	0.0432	-0.0995	1.5070	-5.3984	0.0080	0.1923	-2.3028		
23	0.0	-2.89	0.0416	-0.1212	1.4378	-5.1215	0.0100	0.1796	-2.9144		
24	0.0	-2.11	0.0493	-0.1300	1.2883	-4.8403	0.0120	0.1766	-2.6373		
25	0.01	-1.31	0.0497	-0.0976	1.1567	-4.6640	0.0100	0.1763	-1.9634		
26	0.0	-0.51	0.0548	-0.1317	1.1343	-4.4616	0.0140	0.1728	-2.4036		
27	0.0	0.28	0.0569	-0.1276	0.9529	-4.1627	0.0020	0.1675	-2.2436		
28	0.0	1.01	0.0436	-0.0780	0.8995	-3.9469	-0.0010	0.1646	-1.7899		
29	0.0	1.80	0.0164	-0.0360	0.7359	-3.5859	-0.0050	0.1620	-2.1927		
30	0.0	2.57	0.0233	-0.0406	0.6060	-3.2191	-0.0080	0.1583	-1.7433		
31	0.0	3.35	0.0136	-0.0230	0.4612	-2.7575	-0.0070	0.1505	-1.6941		
32	0.0	4.10	0.0125	-0.0055	0.3163	-2.3455	-0.0080	0.1463	-0.4400		
33	0.01	4.86	0.0037	0.0030	0.1284	-1.9505	-0.0030	0.1384	0.5298		
34	0.01	5.72	0.0029	0.0269	0.0282	-1.5623	0.0030	0.1319	9.2897		
35	0.01	6.52	0.0172	0.0199	-0.1229	-1.2468	0.0020	0.1329	1.1581		
36	0.01	7.33	0.0164	0.0110	-0.2460	-0.9425	0.0	0.1304	0.6732		
37	0.01	8.08	0.0221	0.0161	-0.4262	-0.6711	0.0010	0.1217	0.7267		
38	0.01	8.93	-0.0033	0.0686	-0.5658	-0.3137	0.0010	0.1158	-20.7939		
39	0.01	9.73	0.0071	0.0581	-0.6690	0.0587	0.0	0.1070	8.1775		
40	0.01	10.51	0.0040	0.0754	-0.8147	0.2447	-0.0050	0.0955	18.8500		
41	0.01	11.33	0.0048	0.0813	-0.9675	0.6756	-0.0090	0.0755	16.9333		
42	0.01	12.11	-0.0105	0.1227	-1.0719	1.1616	-0.0120	0.0533	-11.6657		
43	0.01	12.91	0.0170	0.1192	-1.3488	1.4584	-0.0160	0.0329	7.0118		
44	0.01	13.65	-0.0105	0.1477	-1.4732	1.9705	-0.0160	0.0088	-14.0667		
45	0.01	14.45	0.0033	0.1464	-1.7459	2.3402	-0.0290	-0.0089	44.3575		
46	0.01	15.21	-0.0062	0.1997	-1.8639	2.7314	-0.0270	-0.0171	-32.2065		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
		6	102	0.85	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.02	16.01	0.0193	0.1840	-2.0046	3.0905	-0.0340	-0.0374	9.5326				
48	0.02	16.78	0.0071	0.2050	-2.1822	3.4330	-0.0310	-0.0513	28.8617				
49	0.02	17.62	0.0106	0.2211	-2.3969	3.8216	-0.0380	-0.0640	20.8642				
50	0.02	18.45	-0.0229	0.2960	-2.5707	4.0239	-0.0320	-0.0638	-12.9204				
51	0.02	19.27	0.0381	0.1466	-2.7547	4.2496	-0.0310	-0.0589	3.8493				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6.	102	0.85	1.7	0.0	0.2	WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	0.01	-19.96	0.9797	0.0355	0.3236	0.0363	0.3303	-0.0171	0.0058	-0.0291	-0.3379	1.7016
2	0.01	-19.60	0.9717	0.0357	0.3205	0.0368	0.3298	0.0089	-0.0321	-0.3304	-0.3304	1.1989
3	0.01	-18.85	0.9604	0.0366	0.3135	0.0381	0.3269	-0.0225	0.0114	-0.0372	-0.5070	1.6532
4	0.01	-18.05	0.9356	0.0376	0.3081	0.0402	0.3293	-0.0192	0.0074	-0.0281	-0.3831	1.4634
5	0.01	-17.16	0.9030	0.0389	0.3005	0.0431	0.3328	-0.0132	0.0068	-0.0246	-0.5117	1.8635
6	0.01	-16.36	0.8672	0.0408	0.2891	0.0470	0.3333	-0.0149	0.0044	-0.0238	-0.2972	1.5950
7	0.0	-15.52	0.8395	0.0409	0.2798	0.0487	0.3333	-0.0038	0.0038	-0.0137	-1.0072	3.5964
8	0.01	-14.73	0.8215	0.0411	0.2715	0.0501	0.3304	0.0040	0.0032	-0.0107	0.7880	-2.6668
9	0.01	-13.88	0.7809	0.0411	0.2642	0.0527	0.3447	0.0052	-0.0002	-0.0142	-0.0289	-2.7245
10	0.0	-13.06	0.7567	0.0413	0.2619	0.0546	0.3460	-0.0033	-0.0005	-0.0138	0.1592	4.1817
11	0.0	-12.25	0.7599	0.0420	0.2531	0.0552	0.3331	0.0056	-0.0012	-0.0155	-0.2144	-2.7739
12	0.0	-11.51	0.7231	0.0420	0.2515	0.0580	0.3484	0.0078	0.0	-0.0111	0.0	-1.4232
13	-0.01	-10.72	0.8084	0.0419	0.2705	0.0518	0.3346	0.0475	0.0001	0.0066	0.0016	0.1395
14	-0.01	-9.99	0.7964	0.0427	0.2672	0.0536	0.3355	0.0337	-0.0002	0.0004	-0.0067	0.0127
15	0.0	-9.21	0.8546	0.0434	0.2849	0.0508	0.3381	0.0315	0.0008	0.0025	0.0238	0.0792
16	0.0	-8.46	0.8656	0.0440	0.2917	0.0508	0.3370	0.0002	0.0005	-0.0147	2.6266	-73.6667
17	0.0	-7.65	0.8955	0.0449	0.3046	0.0557	0.3401	-0.0049	0.0	-0.0148	0.0	1.4948
18	0.0	-6.87	0.8909	0.0525	0.3057	0.0589	0.3431	-0.0102	-0.0004	-0.0131	0.0368	1.2642
19	0.0	-6.03	0.8398	0.0510	0.2911	0.0607	0.3467	-0.0213	-0.0005	-0.0157	0.0247	0.7370
20	0.0	-5.30	0.8100	0.0545	0.2819	0.0673	0.3480	-0.0145	-0.0034	-0.0161	0.0259	1.1125
21	0.0	-4.51	0.7811	0.0594	0.2736	0.0760	0.3503	-0.0182	-0.0011	-0.0140	0.0577	0.7673
22	0.0	-3.73	0.7536	0.0629	0.2642	0.0835	0.3506	-0.0120	-0.0005	-0.0122	0.0438	1.0165
23	0.0	-2.89	0.6904	0.0662	0.2522	0.0959	0.3652	-0.0197	-0.0026	-0.0142	0.1295	0.7190
24	0.0	-2.11	0.6772	0.0688	0.2406	0.1016	0.3552	-0.0110	-0.0005	-0.0096	0.0478	0.8696
25	0.01	-1.31	0.6311	0.0701	0.2325	0.1110	0.3684	-0.0095	-0.0005	-0.0089	0.0553	0.9332
26	0.0	-0.51	0.5900	0.0698	0.2224	0.1162	0.3770	-0.0115	-0.0024	-0.0136	0.2088	1.1854
27	0.0	0.28	0.5407	0.0671	0.2061	0.1240	0.3811	-0.0058	-0.0005	-0.0102	0.0906	1.7642
28	0.0	1.01	0.4865	0.0635	0.1892	0.1306	0.3890	-0.0141	-0.0007	-0.0105	0.0479	0.7446
29	0.0	1.80	0.4163	0.0576	0.1685	0.1383	0.4048	-0.0159	-0.0021	-0.0162	0.1322	1.0187
30	0.0	2.57	0.3553	0.0518	0.1449	0.1458	0.4078	-0.0151	-0.0005	-0.0133	0.0348	0.8829
31	0.0	3.35	0.2807	0.0433	0.1179	0.1541	0.4202	-0.0149	-0.0005	-0.0143	0.0353	0.9574
32	0.0	4.10	0.2059	0.0333	0.0501	0.1619	0.4377	-0.0213	-0.0011	-0.0154	0.0528	0.7229
33	0.01	4.86	0.1481	0.0253	0.0677	0.1709	0.4569	-0.0137	0.0	-0.0129	0.0	0.9391
34	0.01	5.72	0.0846	0.0162	0.0471	0.1916	0.5566	-0.0407	-0.0005	-0.0117	0.0129	0.2865
35	0.01	6.52	0.0336	0.0081	0.0317	0.2412	0.9433	-0.0122	0.0002	-0.0121	-0.0123	0.9890
36	0.01	7.33	-0.0070	-0.0002	0.0095	0.0322	-1.3525	-0.0066	0.0015	-0.0081	-0.2274	1.2272
37	0.01	8.08	-0.0724	-0.0101	-0.0037	0.1389	0.0514	-0.0047	0.0013	-0.0087	-0.2714	1.8439
38	0.01	8.93	-0.1231	-0.0201	-0.0241	0.1635	0.1958	-0.0089	0.0002	-0.0120	-0.0253	1.3445
39	0.01	9.73	-0.1843	-0.0302	-0.0386	0.1638	0.2094	-0.0044	0.0006	-0.0097	-0.1364	2.1969
40	0.01	10.51	-0.2495	-0.0398	-0.0541	0.1595	0.2169	0.0004	0.0014	-0.0093	3.3771	-23.1668
41	0.01	11.33	-0.3042	-0.0521	-0.0772	0.1713	0.2539	-0.0044	0.0006	-0.0097	-0.1364	2.1969
42	0.01	12.11	-0.3595	-0.0632	-0.1005	0.1759	0.2795	-0.0018	-0.0002	-0.0134	0.1251	7.4443
43	0.01	12.91	-0.4332	-0.0731	-0.1208	0.1686	0.2789	0.0059	0.0008	-0.0105	0.1272	-1.7854
44	0.01	13.65	-0.5056	-0.0791	-0.1444	0.1565	0.2855	0.0021	0.0011	-0.0092	0.5003	-4.3811
45	0.01	14.45	-0.5785	-0.0845	-0.1682	0.1461	0.2907	0.0090	0.0011	-0.0097	0.1251	-1.0779
46	0.01	15.21	-0.6240	-0.0858	-0.1841	0.1375	0.2951	0.0059	0.0009	-0.0105	0.1526	-1.7854

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	102	0.85	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED			
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.02	16.01	-0.6843	-0.0865	-0.2014	0.1264	0.2943	0.0121	0.0014	-0.0085	0.1116	-0.6998		
48	0.02	16.78	-0.7116	-0.0864	-0.2170	0.1215	0.3050	0.0121	0.0010	-0.0085	0.0806	-0.6998		
49	0.02	17.62	-0.7502	-0.0846	-0.2332	0.1128	0.3108	0.0108	0.0014	-0.0099	0.1320	-0.9168		
50	0.02	18.45	-0.8147	-0.0813	-0.2448	0.0998	0.3004	0.0062	0.0008	-0.0118	0.1210	-1.9087		
51	0.02	19.27	-0.8366	-0.0746	-0.2488	0.0891	0.2975	0.0111	0.0010	-0.0111	0.0879	-1.0001		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	102	0.85	1.7	0.0	82W0F13	0.0	10	0	10	0	FIXED	
PULNT	ALPHA	BETA	CNF3	CH3	C03	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	0.01	-19.96	0.9390	0.0302	0.3302	0.0321	0.3516	0.0017	-0.0016	-0.0003	-0.9270	-0.1962
2	0.01	-19.60	0.9372	0.0298	0.3337	0.0318	0.3561	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
3	0.01	-18.65	0.9300	0.0306	0.3225	0.0329	0.3472	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
4	0.01	-18.05	0.9057	0.0318	0.3126	0.0351	0.3451	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
5	0.01	-17.16	0.8874	0.0329	0.3001	0.0371	0.3449	0.0019	-0.0018	-0.0004	-0.9480	-0.1931
6	0.01	-16.36	0.8630	0.0329	0.2968	0.0381	0.3439	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
7	0.0	-15.52	0.8534	0.0349	0.2823	0.0419	0.337	-0.0001	0.0002	-0.0000	-1.5009	0.3332
8	0.01	-14.73	0.7970	0.0357	0.2739	0.0448	0.3436	0.0024	-0.0022	-0.0005	-0.9068	-0.2085
9	0.01	-13.88	0.7825	0.0388	0.2593	0.0496	0.3314	0.0017	-0.0016	-0.0003	-0.9270	-0.1962
10	0.0	-13.06	0.7341	0.0392	0.2535	0.0534	0.3453	-0.0009	0.0008	0.0002	-0.9172	-0.2223
11	0.0	-12.25	0.7121	0.0403	0.2407	0.0566	0.3380	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
12	0.0	-11.51	0.6934	0.0401	0.2323	0.0578	0.3351	0.0006	-0.0005	-0.0001	-0.8755	-0.1668
13	-0.01	-10.72	0.6677	0.0411	0.2203	0.0615	0.3299	-0.0021	0.0020	0.0004	-0.9291	-0.1906
14	-0.01	-9.99	0.6587	0.0402	0.2214	0.0610	0.3361	-0.0008	0.0008	0.0001	-0.9381	-0.1668
15	0.0	-9.21	0.7302	0.0405	0.2418	0.0554	0.3312	-0.0006	0.0005	0.0001	-0.8755	-0.1668
16	0.0	-8.46	0.8372	0.0411	0.2808	0.0492	0.3354	-0.0016	0.0015	0.0003	-0.9381	-0.1668
17	0.0	-7.65	0.8926	0.0439	0.3002	0.0492	0.3364	-0.0016	0.0015	0.0003	-0.9381	-0.1668
18	0.0	-6.87	0.8993	0.0458	0.3033	0.0509	0.3372	-0.0024	0.0022	0.0005	-0.9068	-0.2065
19	0.0	-6.03	0.8707	0.0449	0.2977	0.0516	0.3419	-0.0025	0.0023	0.0006	-0.9006	-0.2268
20	0.0	-5.30	0.8460	0.0464	0.2840	0.0549	0.3357	-0.0028	0.0026	0.0006	-0.9381	-0.2025
21	0.0	-4.51	0.8265	0.0512	0.2797	0.0620	0.3384	-0.0042	0.0038	0.0009	-0.9113	-0.2144
22	0.0	-3.73	0.7846	0.0554	0.2729	0.0706	0.3478	-0.0036	0.0033	0.0007	-0.9172	-0.1946
23	0.0	-2.89	0.7626	0.0580	0.2560	0.0761	0.3356	-0.0036	0.0033	0.0007	-0.9172	-0.1946
24	0.0	-2.11	0.7051	0.0593	0.2458	0.0841	0.3485	-0.0039	0.0036	0.0008	-0.9237	-0.2052
25	0.01	-1.31	0.6873	0.0619	0.2322	0.0900	0.3379	-0.0039	0.0036	0.0008	-0.9237	-0.2052
26	0.0	-0.51	0.6504	0.0626	0.2235	0.0963	0.3437	-0.0054	0.0050	0.0011	-0.9172	-0.2038
27	0.0	0.28	0.6117	0.0634	0.2172	0.1036	0.3551	-0.0058	0.0053	0.0012	-0.9187	-0.2013
28	0.0	1.01	0.5784	0.0613	0.2061	0.1059	0.3264	-0.0054	0.0050	0.0011	-0.9172	-0.2038
29	0.0	1.80	0.5083	0.0573	0.1876	0.1127	0.3690	-0.0049	0.0045	0.0010	-0.9189	-0.1974
30	0.0	2.57	0.4551	0.0528	0.1670	0.1160	0.3668	-0.0042	0.0039	0.0008	-0.9291	-0.1906
31	0.0	3.35	0.3714	0.0448	0.1381	0.1207	0.3717	-0.0039	0.0036	0.0008	-0.9237	-0.2052
32	0.0	4.10	0.3028	0.0365	0.1125	0.1205	0.3715	-0.0036	0.0033	0.0007	-0.9172	-0.1946
33	0.01	4.86	0.2515	0.0284	0.0866	0.1128	0.3444	-0.0036	0.0034	0.0007	-0.9381	-0.1946
34	0.01	5.72	0.1601	0.0185	0.0634	0.1154	0.3963	-0.0028	0.0026	0.0006	-0.9381	-0.2025
35	0.01	6.52	0.1182	0.0118	0.0447	0.0998	0.3761	-0.0021	0.0020	0.0004	-0.9291	-0.1906
36	0.01	7.33	0.0672	0.0035	0.0260	0.0525	0.3868	-0.0024	0.0022	0.0005	-0.9068	-0.2085
37	0.01	8.08	0.0072	-0.0049	0.0083	-0.6775	1.1527	-0.0017	0.0016	0.0003	-0.9270	-0.1962
38	0.01	8.93	-0.0371	-0.0128	-0.0076	0.3459	0.2038	-0.0009	0.0008	0.0002	-0.9172	-0.2223
39	0.01	9.73	-0.0940	-0.0227	-0.0252	0.2414	0.2683	0.0001	-0.0002	0.0000	-1.5009	0.3332
40	0.01	10.51	-0.1466	-0.0301	-0.0417	0.2054	0.2848	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
41	0.01	11.33	-0.1989	-0.0391	-0.0590	0.1967	0.2965	0.0027	-0.0025	-0.0006	-0.9172	-0.2223
42	0.01	12.11	-0.2537	-0.0499	-0.0818	0.1965	0.3226	0.0046	-0.0042	-0.0011	-0.9136	-0.2320
43	0.01	12.91	-0.3235	-0.0590	-0.0998	0.1825	0.3085	0.0046	-0.0042	-0.0011	-0.9136	-0.2320
44	0.01	13.65	-0.3914	-0.0666	-0.1204	0.1702	0.3077	0.0065	-0.0060	-0.0014	-0.9237	-0.2206
45	0.01	14.45	-0.4556	-0.0706	-0.1483	0.1549	0.3253	0.0082	-0.0076	-0.0018	-0.9244	-0.2156
46	0.01	15.21	-0.5250	-0.0720	-0.1621	0.1372	0.3088	0.0088	-0.0081	-0.0020	-0.9210	-0.2236

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		102	0.85	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	16.01	-0.5655	-0.0713	-0.1847	0.1261	0.3267	0.0085	-0.0078	-0.0019	-0.9182	-0.2197
48	0.02	16.78	-0.6135	-0.0705	-0.1977	0.1169	0.3223	0.0082	-0.0076	-0.0018	-0.9244	-0.2156
49	0.02	17.62	-0.6587	-0.0676	-0.2122	0.1026	0.3221	0.0080	-0.0074	-0.0017	-0.9287	-0.2168
50	0.02	18.45	-0.7076	-0.0645	-0.2238	0.0912	0.3162	0.0065	-0.0060	-0.0014	-0.9237	-0.2206
51	0.02	19.27	-0.7452	-0.0589	-0.2421	0.0790	0.3249	0.0092	-0.0085	-0.0020	-0.9218	-0.2211

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX	IO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	103	0.92	1.7	0.0	B2NOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.92	0.0951	-0.2691	3.6876	-7.2204	0.0060	0.3363	-2.8301		
2	0.01	-19.54	0.0995	-0.1773	3.7272	-7.2468	0.0040	0.3264	-1.7819		
3	0.0	-18.75	0.1100	-0.2590	3.5310	-6.9792	0.0130	0.3141	-2.3545		
4	0.0	-17.93	0.0497	-0.1806	3.3318	-6.7202	0.0120	0.3108	-2.5908		
5	0.01	-17.04	0.0636	-0.1120	3.2056	-6.5595	0.0	0.3068	-1.7616		
6	0.0	-16.24	0.0639	-0.1384	3.0090	-6.2553	0.0090	0.3075	-2.1668		
7	0.0	-15.41	0.0481	-0.1573	2.8822	-6.1858	0.0070	0.3033	-3.2711		
8	0.0	-14.61	0.0359	-0.1288	2.7193	-5.9748	0.0050	0.3063	-3.2296		
9	0.0	-13.78	0.0506	-0.1838	2.6649	-5.9275	0.0110	0.3001	-3.6332		
10	0.0	-12.95	0.0495	-0.2013	2.4661	-5.7632	0.0230	0.2961	-4.0667		
11	-0.01	-12.16	0.0764	-0.3279	2.3952	-5.7329	0.0340	0.2967	-4.2927		
12	-0.01	-11.41	0.1182	-0.4384	2.2977	-5.8514	0.0570	0.3021	-3.7096		
13	-0.02	-10.65	0.2328	-0.4638	2.3713	-6.3794	0.1460	0.2826	-4.1405		
14	-0.03	-9.93	0.2647	-1.0864	2.2820	-6.4764	0.1730	0.2897	-4.1049		
15	0.0	-9.19	0.0694	-0.2081	2.4163	-7.4573	0.0250	0.2789	-2.9994		
16	0.0	-8.39	0.0684	-0.2267	2.3490	-7.4760	0.0260	0.2731	-3.3152		
17	0.0	-7.62	0.0465	-0.1811	2.2545	-7.4167	0.0200	0.2713	-3.8946		
18	0.0	-6.78	0.0373	-0.1142	2.1660	-7.1429	0.0180	0.2629	-3.0622		
19	0.0	-6.01	0.0498	-0.1517	2.0474	-6.9449	0.0160	0.2657	-3.0466		
20	0.0	-5.22	0.0357	-0.1230	1.8993	-6.5884	0.0070	0.2561	-3.4448		
21	0.0	-4.47	0.0701	-0.2051	1.7170	-6.2003	0.0100	0.2456	-2.9264		
22	0.0	-3.68	0.0529	-0.1540	1.6569	-5.9202	0.0080	0.2342	-2.9123		
23	0.0	-2.85	0.0477	-0.1408	1.4933	-5.6412	0.0100	0.2375	-2.9514		
24	0.0	-2.07	0.0563	-0.1448	1.3697	-5.4032	0.0040	0.2384	-2.5723		
25	0.0	-1.26	0.0479	-0.1260	1.3054	-5.0592	-0.0030	0.2371	-2.6317		
26	0.0	-0.45	0.0490	-0.1436	1.2115	-4.8247	-0.0090	0.2461	-2.9306		
27	0.0	0.33	0.0252	-0.0643	1.0364	-4.3395	-0.0130	0.2284	-2.5508		
28	0.0	1.07	0.0313	-0.0868	0.8404	-3.9002	-0.0180	0.2230	-2.7738		
29	0.0	1.86	0.0362	-0.0687	0.7132	-3.4882	-0.0150	0.2151	-1.8972		
30	0.0	2.62	0.0156	-0.0178	0.4542	-3.0776	-0.0080	0.2089	-1.1436		
31	0.0	3.41	0.0141	-0.0117	0.4049	-2.6627	-0.0070	0.2014	-0.8326		
32	0.0	4.16	0.0144	-0.0282	0.2857	-2.2657	-0.0020	0.1976	-1.9556		
33	0.0	4.98	0.0087	-0.0042	0.0858	-1.8149	0.0030	0.1921	-0.4805		
34	0.01	5.77	0.0113	0.0052	-0.0241	-1.4861	0.0010	0.1897	0.4584		
35	0.01	6.61	0.0181	-0.0163	-0.2095	-1.1016	0.0060	0.1821	-0.9028		
36	0.01	7.37	0.0343	-0.0020	-0.2535	-0.8694	0.0040	0.1806	-0.0589		
37	0.01	8.21	0.0213	0.0242	-0.4476	-0.5032	0.0040	0.1743	1.1352		
38	0.01	9.01	0.0024	0.0886	-0.6163	-0.1210	0.0	0.1615	36.9333		
39	0.01	9.84	-0.0032	0.0755	-0.7685	0.3220	-0.0050	0.1452	-23.5875		
40	0.01	10.63	0.0123	0.0648	-0.8951	0.6862	-0.0050	0.1320	5.2667		
41	0.01	11.45	0.0013	0.0912	-1.1094	1.0322	-0.0100	0.1059	70.1384		
42	0.01	12.22	0.0082	0.1015	-1.2769	1.4687	-0.0120	0.0893	12.3805		
43	0.01	12.98	-0.0046	0.1664	-1.4845	1.9513	-0.0100	0.0632	-36.1826		
44	0.02	13.77	0.0060	0.1606	-1.6660	2.4074	-0.0150	0.0439	20.7667		
45	0.01	14.53	0.0025	0.1395	-1.8342	2.8908	-0.0350	0.0272	55.8000		
46	0.01	15.30	-0.0004	0.1545	-2.0876	3.4216	-0.0350	0.0012	-386.4001		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	10.3	0.92	1.7	0.0	B2H0F13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	16.09	-0.0016	0.2262	-2.2434	3.8587	-0.0340	-0.0209	-141.4000		
48	0.02	16.90	0.0291	0.1812	-2.4552	4.2691	-0.0390	-0.0439	6.2289		
49	0.02	17.71	-0.0263	0.3238	-2.6342	4.6047	-0.0010	-0.0607	-12.3125		
50	0.03	18.58	-0.0120	0.3798	-2.8199	4.7098	-0.0040	-0.0673	-31.6500		
51	0.02	19.35	-0.0413	0.3188	-2.9891	4.8917	-0.0140	-0.0752	-7.7196		
52	0.02	20.15	-0.0395	0.2963	-3.0893	5.0219	-0.0120	-0.0806	-7.5013		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	103	0.92	1.7	0.0	B2W0F13	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	-19.92	1.0496	0.0253	0.3653	0.0241	0.3481	0.0107	0.0080	-0.0219	0.7435	-2.0500
2	0.01	-19.54	1.0495	0.0249	0.3654	0.0238	0.3482	0.0099	0.0070	-0.0181	0.7050	-1.8284
3	0.0	-18.75	1.0004	0.0273	0.3535	0.0273	0.3533	-0.0028	0.0114	-0.0376	-4.0740	13.4046
4	0.0	-17.93	0.9816	0.0281	0.3475	0.0286	0.3540	-0.0014	0.0083	-0.0290	-5.8965	20.6904
5	0.01	-17.04	0.9609	0.0300	0.3346	0.0312	0.3482	0.0152	0.0022	-0.0066	0.1432	-0.4365
6	0.0	-16.24	0.9108	0.0312	0.3225	0.0342	0.3541	0.0089	0.0017	-0.0183	0.1855	-2.0600
7	0.0	-15.41	0.8907	0.0317	0.3161	0.0356	0.3545	0.0179	0.0010	-0.0114	0.0545	-0.6389
8	0.0	-14.61	0.8523	0.0330	0.3096	0.0388	0.3633	0.0184	0.0024	-0.0141	0.1305	-0.7646
9	0.0	-13.78	0.8478	0.0318	0.3065	0.0376	0.3620	0.0194	0.0024	-0.0117	0.1238	-0.6049
10	0.0	-12.95	0.8212	0.0326	0.3005	0.0397	0.3659	0.0180	0.0002	-0.0113	0.0083	-0.6279
11	-0.01	-12.16	0.8311	0.0325	0.3037	0.0391	0.3655	0.0222	0.0009	-0.0105	0.0406	-0.4731
12	-0.01	-11.41	0.9041	0.0316	0.3482	0.0350	0.3630	0.0495	-0.0002	0.0038	-0.0045	0.0766
13	-0.02	-10.65	1.0422	0.0300	0.3818	0.0288	0.3663	0.0921	-0.0003	0.0172	-0.0033	0.1865
14	-0.03	-9.93	1.0744	0.0314	0.3543	0.0292	0.3670	0.0843	-0.0022	0.0181	-0.0258	0.2146
15	0.0	-9.19	1.0057	0.0351	0.3682	0.0349	0.3661	0.0031	0.0002	-0.0191	0.0484	-6.1507
16	0.0	-8.39	1.0125	0.0392	0.3728	0.0387	0.3682	0.0028	-0.0008	-0.0175	-0.2680	-6.2382
17	0.0	-7.62	1.0033	0.0433	0.3643	0.0432	0.3631	-0.0067	-0.0007	-0.0217	0.1008	3.2437
18	0.0	-6.78	0.9653	0.0478	0.3584	0.0495	0.3713	-0.0023	-0.0009	-0.0212	0.3915	9.2028
19	0.0	-6.01	0.9328	0.0534	0.3495	0.0572	0.3752	-0.0049	-0.0005	-0.0168	0.1072	3.4353
20	0.0	-5.22	0.8826	0.0580	0.3345	0.0658	0.3790	-0.0020	-0.0006	-0.0161	0.3002	8.0332
21	0.0	-4.47	0.8343	0.0619	0.3174	0.0743	0.3805	0.0011	-0.0012	-0.0162	-1.0916	-14.7577
22	0.0	-3.68	0.8055	0.0661	0.3061	0.0820	0.3800	0.0026	-0.0023	-0.0159	-0.8659	-6.1283
23	0.0	-2.85	0.7625	0.0704	0.2970	0.0924	0.3695	0.0048	-0.0013	-0.0129	-0.2658	-2.6876
24	0.0	-2.07	0.7134	0.0730	0.2883	0.1023	0.4042	0.0070	-0.0023	-0.0154	-0.3216	-2.1954
25	0.0	-1.26	0.6650	0.0726	0.2746	0.1092	0.4130	0.0037	-0.0017	-0.0142	-0.4665	-3.8289
26	0.0	-0.45	0.6052	0.0695	0.2564	0.1149	0.4236	0.0070	-0.0021	-0.0154	-0.3002	-2.1954
27	0.0	0.33	0.5236	0.0665	0.2292	0.1271	0.4377	-0.0026	-0.0029	-0.0189	1.1257	7.2563
28	0.0	1.07	0.4386	0.0622	0.2014	0.1419	0.4591	0.0029	-0.0014	-0.0174	-0.4917	-6.0116
29	0.0	1.86	0.3623	0.0572	0.1722	0.1579	0.4752	0.0013	-0.0008	-0.0173	-0.6350	-13.2822
30	0.0	2.62	0.2917	0.0481	0.1445	0.1650	0.4955	-0.0029	-0.0012	-0.0184	0.4141	6.3332
31	0.0	3.41	0.2198	0.0390	0.1224	0.1773	0.5567	0.0026	-0.0003	-0.0165	-0.1155	-6.3591
32	0.0	4.16	0.1645	0.0302	0.0981	0.1835	0.5966	-0.0018	-0.0006	-0.0171	0.3335	9.4999
33	0.0	4.98	0.0895	0.0195	0.0714	0.2180	0.7969	0.0020	0.0004	-0.0145	0.1876	-7.2668
34	0.01	5.77	0.0324	0.0104	0.0530	0.3220	1.6357	0.0012	-0.0002	-0.0172	-0.1251	-14.3334
35	0.01	6.61	-0.0085	-0.0001	0.0322	0.0088	-3.7844	0.0046	0.0017	-0.0136	0.3752	-2.9494
36	0.01	7.37	-0.0617	-0.0090	0.0168	0.1460	-0.2729	0.0147	0.0025	-0.0119	0.1685	-0.8096
37	0.01	8.21	-0.1229	-0.0195	-0.0031	0.1589	0.0254	0.0068	0.0009	-0.0158	0.1324	-2.3285
38	0.01	9.01	-0.1805	-0.0303	-0.0214	0.1681	0.1187	0.0101	0.0009	-0.0169	0.0892	-1.6767
39	0.01	9.84	-0.2573	-0.0442	-0.0453	0.1716	0.1761	0.0117	0.0008	-0.0172	0.0641	-1.4702
40	0.01	10.63	-0.3117	-0.0540	-0.0604	0.1732	0.1939	0.0113	0.0013	-0.0159	0.1129	-1.4101
41	0.01	11.45	-0.3885	-0.0686	-0.0843	0.1765	0.2171	0.0117	0.0011	-0.0174	0.0898	-1.4873
42	0.01	12.22	-0.4367	-0.0787	-0.1094	0.1802	0.2505	0.0194	0.0027	-0.0124	0.1393	-0.6410
43	0.01	12.98	-0.5182	-0.0891	-0.1251	0.1719	0.2492	0.0159	0.0021	-0.0167	0.1322	-1.0504
44	0.02	13.77	-0.5839	-0.0965	-0.1535	0.1652	0.2630	0.0170	0.0025	-0.0149	0.1457	-0.8785
45	0.01	14.53	-0.6541	-0.1014	-0.1860	0.1550	0.2844	0.0251	0.0041	-0.0113	0.1615	-0.4516
46	0.01	15.30	-0.7384	-0.1044	-0.2115	0.1414	0.2865	0.0260	0.0034	-0.0147	0.1299	-0.5668

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX	10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		103	0.92	1.7	0.0	B2NOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	16.09	-0.7985	-0.1059	-0.2399	0.1326	0.3004	0.0215	0.0027	-0.0146	0.1257	-0.6807
48	0.02	16.90	-0.8699	-0.1060	-0.2574	0.1219	0.2959	0.0261	0.0026	-0.0144	0.0978	-0.5518
49	0.02	17.71	-0.8803	-0.1017	-0.2534	0.1155	0.2879	0.0297	0.0022	-0.0102	0.0733	-0.3436
50	0.03	18.58	-0.9018	-0.0923	-0.2587	0.1023	0.2868	0.0295	0.0018	-0.0154	0.0611	-0.5210
51	0.02	19.35	-0.9428	-0.0863	-0.2663	0.0915	0.2825	0.0290	0.0019	-0.0129	0.0647	-0.4461
52	0.02	20.15	-0.9423	-0.0752	-0.2621	0.0798	0.2781	0.0313	0.0023	-0.0099	0.0719	-0.3153

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	103	0.92	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CB3	YCPF3	YCPF3	CNF4	CM4	CB4	YCPF4	YCPF4
1	0.0	-19.92	1.0616	0.0236	0.3665	0.0222	0.3453	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
2	0.01	-19.54	1.0620	0.0237	0.3658	0.0223	0.3444	0.0029	-0.0027	-0.0006	-0.9316	-0.2185
3	0.0	-18.75	1.0328	0.0250	0.3539	0.0242	0.3427	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
4	0.0	-17.93	1.0110	0.0272	0.3434	0.0269	0.3396	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
5	0.01	-17.04	0.9778	0.0286	0.3319	0.0293	0.3395	0.0028	-0.0026	-0.0006	-0.9381	-0.2025
6	0.0	-16.24	0.9450	0.0300	0.3179	0.0317	0.3364	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
7	0.0	-15.41	0.9202	0.0315	0.3102	0.0342	0.3371	0.0008	-0.0008	-0.0001	-0.9381	-0.1668
8	0.0	-14.61	0.9012	0.0324	0.3017	0.0360	0.3348	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
9	0.0	-13.78	0.8802	0.0342	0.2888	0.0389	0.3281	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
10	0.0	-12.95	0.8552	0.0359	0.2774	0.0420	0.3243	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
11	-0.01	-12.16	0.8319	0.0358	0.2676	0.0431	0.3217	-0.0001	0.0002	-0.0000	-1.5009	0.3332
12	-0.01	-11.41	0.8054	0.0362	0.2595	0.0449	0.3222	-0.0020	0.0018	0.0004	-0.9006	-0.2168
13	-0.02	-10.65	0.7789	0.0370	0.2475	0.0475	0.3178	0.0001	-0.0002	0.0000	-1.5009	0.3332
14	-0.03	-9.93	0.7626	0.0369	0.2411	0.0484	0.3162	-0.0022	0.0020	0.0005	-0.9210	-0.2122
15	0.0	-9.19	1.0785	0.0330	0.3608	0.0336	0.3345	-0.0021	0.0020	0.0004	-0.9291	-0.1906
16	0.0	-8.39	1.0663	0.0351	0.3610	0.0329	0.3386	-0.0019	0.0018	0.0004	-0.9480	-0.1931
17	0.0	-7.62	1.0774	0.0391	0.3623	0.0363	0.3363	-0.0015	0.0014	0.0003	-0.9006	-0.2001
18	0.0	-6.78	1.0465	0.0438	0.3476	0.0418	0.3322	-0.0005	0.0005	0.0001	-1.0507	-0.2668
19	0.0	-6.01	1.0337	0.0493	0.3443	0.0477	0.3331	-0.0025	0.0023	0.0005	-0.9306	-0.1868
20	0.0	-5.22	0.9969	0.0541	0.3285	0.0542	0.3295	-0.0015	0.0014	0.0003	-0.9006	-0.2001
21	0.0	-4.47	0.9623	0.0570	0.3118	0.0592	0.3240	-0.0044	0.0041	0.0008	-0.9210	-0.1895
22	0.0	-3.68	0.9204	0.0611	0.2961	0.0664	0.3217	-0.0019	0.0018	0.0004	-0.9480	-0.1931
23	0.0	-2.85	0.8755	0.0657	0.2893	0.0750	0.3305	-0.0026	0.0024	0.0005	-0.9237	-0.2052
24	0.0	-2.07	0.8442	0.0695	0.2845	0.0824	0.3370	-0.0035	0.0032	0.0006	-0.9220	-0.1811
25	0.0	-1.26	0.8084	0.0652	0.2714	0.0856	0.3357	-0.0025	0.0023	0.0005	-0.9306	-0.1868
26	0.0	-0.43	0.7645	0.0668	0.2587	0.0874	0.3383	-0.0039	0.0036	0.0008	-0.9237	-0.2052
27	0.0	0.33	0.6965	0.0637	0.2395	0.0914	0.3438	-0.0041	0.0038	0.0008	-0.9335	-0.2034
28	0.0	1.07	0.6316	0.0602	0.2167	0.0953	0.3399	-0.0045	0.0042	0.0009	-0.9339	-0.2001
29	0.0	1.86	0.5579	0.0578	0.1888	0.1036	0.3384	-0.0059	0.0054	0.0012	-0.9158	-0.2092
30	0.0	2.62	0.4708	0.0505	0.1552	0.1073	0.3296	-0.0044	0.0041	0.0008	-0.9210	-0.1895
31	0.0	3.41	0.3927	0.0431	0.1275	0.1097	0.3246	-0.0033	0.0030	0.0007	-0.9097	-0.2122
32	0.0	4.16	0.3171	0.0356	0.1024	0.1123	0.3228	-0.0034	0.0035	0.0008	-0.9044	-0.2052
33	0.0	4.98	0.2466	0.0270	0.0746	0.1096	0.3024	-0.0025	0.0023	0.0005	-0.9306	-0.1868
34	0.01	5.77	0.1791	0.0199	0.0555	0.1111	0.3120	-0.0009	0.0008	0.0002	-0.9172	-0.2223
35	0.01	6.61	0.1323	0.0098	0.0327	0.0738	0.2470	-0.0001	0.0002	-0.0000	-1.5009	0.3332
36	0.01	7.37	0.0823	0.0002	0.0157	0.0018	0.1911	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
37	0.01	8.21	0.0332	-0.0095	-0.0028	-0.2671	-0.0855	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
38	0.01	9.01	-0.0338	-0.0180	-0.0161	0.5329	0.4752	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
39	0.01	9.84	-0.0850	-0.0279	-0.0389	0.3284	0.4579	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
40	0.01	10.63	-0.1467	-0.0366	-0.0557	0.2448	0.3196	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
41	0.01	11.45	-0.2073	-0.0474	-0.0752	0.2205	0.3627	0.0004	-0.0011	-0.0018	-0.9202	-0.2144
42	0.01	12.22	-0.2913	-0.0542	-0.0945	0.2034	0.3243	0.0009	-0.0008	-0.0019	-0.9191	-0.2173
43	0.01	12.98	-0.3478	-0.0674	-0.1211	0.1939	0.3482	0.0031	-0.0021	-0.0028	-0.9223	-0.2164
44	0.02	13.77	-0.4292	-0.0734	-0.1456	0.1709	0.3393	0.0144	-0.0134	-0.0031	-0.9277	-0.2154
45	0.01	14.53	-0.4885	-0.0779	-0.1666	0.1596	0.3410	0.0149	-0.0136	-0.0032	-0.9268	-0.2171
46	0.01	15.30	-0.5597	-0.0809	-0.1943	0.1446	0.3472	0.0192	-0.0140	-0.0033	-0.9233	-0.2194

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		103	0.92	1.7		0.0	BZNOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.02	16.09	-0.6300	-0.0826	-0.2237	0.1311	0.3551	0.0168	-0.0155	-0.0037	-0.9202	-0.2204	
48	0.02	16.90	-0.6991	-0.0833	-0.2430	0.1191	0.3477	0.0148	-0.0137	-0.0033	-0.9229	-0.2208	
49	0.02	17.71	-0.7540	-0.0825	-0.2669	0.1094	0.3539	0.0142	-0.0131	-0.0031	-0.9249	-0.2161	
50	0.03	18.58	-0.7896	-0.0805	-0.2636	0.1019	0.3338	0.0142	-0.0131	-0.0031	-0.9249	-0.2161	
51	0.02	19.35	-0.8140	-0.0700	-0.2696	0.0860	0.3311	0.0131	-0.0121	-0.0028	-0.9223	-0.2164	
52	0.02	20.15	-0.8140	-0.0601	-0.2736	0.0738	0.3360	0.0146	-0.0135	-0.0031	-0.9252	-0.2147	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.04	0.97	1.7	0.0	82MOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.83	0.0607	-0.2200	3.8571	-7.5706	-0.0100	0.3779	-2.7259		
2	0.0	-19.67	0.0757	-0.2702	3.8433	-7.5643	-0.0070	0.3868	-3.5797		
3	0.0	-18.84	0.0569	-0.1866	3.7469	-7.5744	-0.0090	0.3863	-3.2805		
4	0.0	-18.06	0.0651	-0.1931	3.6620	-7.6105	-0.0020	0.3912	-2.9668		
5	0.0	-17.17	0.0651	-0.1511	3.5196	-7.5811	-0.0020	0.4022	-2.3217		
6	0.0	-16.38	0.0707	-0.2779	3.3907	-7.5286	0.0150	0.3973	-3.9318		
7	-0.03	-15.57	0.2311	-0.9854	3.3827	-8.2063	0.1630	0.3807	-4.2646		
8	-0.03	-14.80	0.2460	-1.0513	3.3043	-8.2855	0.1770	0.3865	-4.2740		
9	-0.03	-13.95	0.2739	-1.1393	3.1582	-8.2200	0.1980	0.3849	-4.1601		
10	-0.03	-13.14	0.2204	-0.9254	3.1130	-8.4966	0.1720	0.3858	-4.1995		
11	0.0	-12.37	0.0700	-0.2840	3.2026	-9.3910	0.0270	0.3791	-4.0571		
12	-0.01	-11.63	0.0467	-0.2423	3.1009	-9.3086	0.0280	0.3652	-5.1901		
13	0.0	-10.84	0.0445	-0.1893	2.9781	-9.1767	0.0280	0.3675	-4.2539		
14	0.0	-10.10	0.0724	-0.2443	2.8873	-9.0136	0.0280	0.3669	-3.3751		
15	0.0	-9.32	0.0573	-0.1982	2.7614	-8.8284	0.0240	0.3588	-3.4593		
16	0.0	-8.56	0.0449	-0.1878	2.6050	-8.6223	0.0200	0.3599	-4.1840		
17	0.0	-7.79	0.0478	-0.2159	2.5069	-8.3780	0.0150	0.3674	-4.5172		
18	0.0	-6.96	0.0595	-0.1753	2.3887	-8.1355	0.0070	0.3703	-2.9462		
19	0.0	-6.16	0.0450	-0.1930	2.2407	-7.8234	0.0250	0.3460	-4.2889		
20	0.0	-5.37	0.0589	-0.2164	2.0959	-7.4857	0.0340	0.3130	-3.6750		
21	0.0	-4.62	0.0603	-0.2144	2.0117	-7.2259	0.0200	0.2887	-3.5559		
22	0.0	-3.81	0.0674	-0.1983	1.8453	-6.8728	0.0100	0.2796	-2.9430		
23	0.0	-3.02	0.0519	-0.1516	1.7234	-6.5462	0.0	0.2871	-2.9222		
24	0.0	-2.18	0.0366	-0.0992	1.5587	-6.1227	0.0020	0.2851	-2.7115		
25	0.0	-1.39	0.0617	-0.1504	1.4194	-5.6827	-0.0070	0.2839	-2.4373		
26	0.0	-0.57	0.0338	-0.0913	1.2648	-5.1963	-0.0020	0.2782	-2.7018		
27	0.0	0.19	0.0448	-0.0937	1.1305	-4.7452	0.0	0.2716	-2.0920		
28	0.0	0.93	0.0380	-0.1042	0.9774	-4.2849	-0.0060	0.2692	-2.7421		
29	0.01	1.71	0.0511	-0.0725	0.7963	-3.8495	-0.0060	0.2644	-1.4196		
30	0.0	2.49	0.0304	-0.0586	0.6653	-3.3301	-0.0060	0.2588	-1.9263		
31	0.01	3.27	0.0451	-0.0721	0.4425	-2.9143	-0.0050	0.2555	-1.5946		
32	0.01	4.01	0.0282	-0.0205	0.2842	-2.4256	-0.0020	0.2466	-0.7262		
33	0.01	4.83	0.0095	0.0167	0.1579	-1.9518	0.0010	0.2372	1.7579		
34	0.01	5.62	0.0289	0.0035	-0.0037	-1.6446	0.0020	0.2406	0.1225		
35	0.01	6.47	0.0146	0.0056	-0.1379	-1.2068	0.0010	0.2406	0.3808		
36	0.01	7.24	0.0044	0.0458	-0.2958	-0.8138	0.0020	0.2290	10.4182		
37	0.01	8.06	0.0046	0.0785	-0.4704	-0.4052	0.0050	0.2222	17.0782		
38	0.01	8.84	0.0159	0.0207	-0.6501	0.0003	-0.0010	0.2074	1.8075		
39	0.01	9.68	-0.0115	0.1021	-0.8202	0.3384	0.0020	0.1961	-8.8783		
40	0.01	10.49	0.0102	0.0577	-0.9042	0.6879	-0.0050	0.1827	5.6588		
41	0.01	11.29	0.0096	0.0746	-1.1174	1.0694	-0.0090	0.1563	7.7607		
42	0.01	12.07	-0.0106	0.1788	-1.3215	1.5242	-0.0070	0.1362	-16.8717		
43	0.02	12.90	-0.0014	0.1649	-1.4514	2.0170	-0.0160	0.1100	-117.8285		
44	0.01	13.62	-0.0055	0.1547	-1.7047	2.4613	-0.0230	0.0860	-28.1273		
45	0.02	14.45	-0.0233	0.2246	-1.8557	2.8799	-0.0250	0.0752	-9.6403		
46	0.02	15.18	-0.0115	0.2131	-2.1347	3.3226	-0.0310	0.0485	-18.5304		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		104	0.97	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.02	15.98	-0.0197	0.2475	-2.2915	3.7720	-0.0320	0.0372	-12.5875			
48	0.01	16.76	-0.0120	0.1788	-2.4270	4.1557	-0.0490	0.0274	-14.9000			
49	0.01	17.58	-0.0042	0.1439	-2.7362	4.6136	-0.0570	0.0013	-34.2572			
50	0.02	18.41	-0.0227	0.2737	-2.9784	5.0347	-0.0410	-0.0353	-12.0608			
51	0.02	19.24	-0.0300	0.2960	-3.1996	5.4293	-0.0350	-0.0596	-9.8667			
52	0.02	20.06	-0.0282	0.2744	-3.3020	5.6766	-0.0400	-0.0698	-9.7333			

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	104	0.97	1.7	0.0	0.2	WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YC PF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	0.0	-19.83	1.1012	0.0182	0.4031	0.0165	0.3660	0.0358	0.0044	-0.0061	0.1216	-0.1696
2	0.0	-19.67	1.1046	0.0180	0.4035	0.0163	0.3656	0.0300	0.0029	-0.0105	0.0976	-0.3501
3	0.0	-18.84	1.0957	0.0182	0.4020	0.0166	0.3669	0.0319	0.0035	-0.0129	0.1082	-0.4035
4	0.0	-18.06	1.0908	0.0185	0.4016	0.0170	0.3682	0.0322	0.0017	-0.0077	0.0536	-0.2382
5	0.0	-17.17	1.0811	0.0195	0.3961	0.0181	0.3663	0.0267	0.0025	-0.0139	0.0928	-0.5207
6	0.0	-16.38	1.0991	0.0204	0.3942	0.0186	0.3586	0.0249	0.0031	-0.0181	0.1236	-0.7270
7	-0.03	-15.57	1.3534	0.0148	0.4543	0.0109	0.3652	0.0950	-0.0046	0.0132	-0.0482	0.1393
8	-0.03	-14.80	1.3546	0.0158	0.5018	0.0117	0.3704	0.1001	-0.0035	0.0144	-0.0345	0.1442
9	-0.03	-13.95	1.3859	0.0187	0.5100	0.0135	0.3680	0.1118	-0.0034	0.0189	-0.0484	0.1694
10	-0.03	-13.14	1.3389	0.0209	0.4934	0.0156	0.3685	0.0456	-0.0003	-0.0109	-0.0066	-0.2392
11	0.0	-12.37	1.2992	0.0243	0.4823	0.0187	0.3713	0.0242	0.0018	-0.0147	0.0744	-0.6089
12	-0.01	-11.63	1.2730	0.0292	0.4804	0.0229	0.3774	0.0190	0.0	-0.0158	0.0	-0.8299
13	0.0	-10.84	1.2625	0.0336	0.4725	0.0266	0.3746	0.0116	0.0002	-0.0193	0.0194	-1.6668
14	0.0	-10.10	1.2405	0.0385	0.4651	0.0311	0.3749	0.0153	0.0	-0.0173	0.0	-1.1308
15	0.0	-9.32	1.1966	0.0432	0.4572	0.0361	0.3821	0.0102	0.0008	-0.0194	0.0809	-1.9021
16	0.0	-8.56	1.1702	0.0459	0.4495	0.0392	0.3844	0.0092	-0.0002	-0.0206	-0.0245	-2.2429
17	0.0	-7.79	1.1275	0.0496	0.4351	0.0440	0.3859	0.0031	-0.0010	-0.0235	-0.3147	-7.5700
18	0.0	-6.96	1.0939	0.0524	0.4227	0.0479	0.3864	0.0074	-0.0006	-0.0189	-0.0811	-2.5587
19	0.0	-6.16	1.0732	0.0576	0.4202	0.0537	0.3916	0.0038	-0.0009	-0.0210	-0.2370	-5.5352
20	0.0	-5.37	1.0235	0.0610	0.4080	0.0596	0.3986	0.0075	-0.0009	-0.0190	-0.1201	-2.5335
21	0.0	-4.62	0.9673	0.0613	0.3960	0.0634	0.4093	0.0020	-0.0009	-0.0191	-0.4503	-9.5668
22	0.0	-3.81	0.9191	0.0616	0.3820	0.0670	0.4156	0.0096	0.0	-0.0167	0.0	-1.7397
23	0.0	-3.02	0.8586	0.0583	0.3647	0.0675	0.4248	0.0090	-0.0009	-0.0195	-0.1001	-2.1668
24	0.0	-2.18	0.7846	0.0562	0.3399	0.0716	0.4332	0.0028	-0.0020	-0.0219	-0.6969	-7.8096
25	0.0	-1.39	0.7186	0.0537	0.3122	0.0747	0.4344	0.0125	-0.0002	-0.0170	-0.0120	-1.3628
26	0.0	-0.57	0.6449	0.0529	0.2874	0.0821	0.4457	0.0118	-0.0008	-0.0196	-0.0636	-1.6583
27	0.0	0.19	0.5476	0.0507	0.2569	0.0926	0.4692	0.0101	-0.0005	-0.0183	-0.0446	-1.8153
28	0.0	0.93	0.4643	0.0467	0.2234	0.1006	0.4813	0.0115	-0.0003	-0.0185	-0.0261	-1.6059
29	0.01	1.71	0.3962	0.0429	0.1990	0.1082	0.5022	0.0122	0.0010	-0.0161	0.0800	-1.3225
30	0.0	2.49	0.3182	0.0360	0.1708	0.1133	0.5367	0.0107	0.0012	-0.0159	0.1122	-1.4892
31	0.01	3.27	0.2467	0.0288	0.1436	0.1169	0.5822	0.0121	0.0014	-0.0161	0.1178	-1.3279
32	0.01	4.01	0.1504	0.0200	0.1129	0.1333	0.7510	0.0035	0.0005	-0.0201	0.1501	-5.7525
33	0.01	4.83	0.0858	0.0136	0.0882	0.1583	1.0279	0.0119	0.0006	-0.0208	0.0505	-1.7508
34	0.01	5.62	0.0238	0.0053	0.0668	0.2207	2.8038	0.0090	0.0006	-0.0200	0.0667	-2.2223
35	0.01	6.47	-0.0342	-0.0020	0.0454	0.0571	-1.3276	0.0164	0.0012	-0.0166	0.0732	-1.0143
36	0.01	7.24	-0.0990	-0.0106	0.0223	0.1070	-0.2249	0.0087	0.0009	-0.0192	0.1035	-2.2070
37	0.01	8.06	-0.1575	-0.0193	-0.0003	0.1225	0.0022	0.0070	-0.0002	-0.0229	-0.0322	-3.2668
38	0.01	8.84	-0.2168	-0.0288	-0.0202	0.1330	0.0933	0.0191	0.0015	-0.0166	0.0786	-0.8710
39	0.01	9.68	-0.2803	-0.0385	-0.0390	0.1374	0.1390	0.0144	0.0005	-0.0196	0.0313	-1.3612
40	0.01	10.49	-0.3240	-0.0490	-0.0639	0.1513	0.1973	0.0142	0.0014	-0.0169	0.0743	-0.8803
41	0.01	11.29	-0.3939	-0.0590	-0.0857	0.1498	0.2176	0.0241	0.0020	-0.0147	0.0841	-0.6087
42	0.01	12.07	-0.4710	-0.0688	-0.1101	0.1460	0.2338	0.0184	0.0010	-0.0191	0.0530	-1.0364
43	0.02	12.90	-0.5462	-0.0770	-0.1404	0.1409	0.2570	0.0259	0.0018	-0.0161	0.0695	-0.6205
44	0.02	13.62	-0.6115	-0.0830	-0.1698	0.1357	0.2776	0.0300	0.0024	-0.0162	0.0800	-0.5401
45	0.02	14.45	-0.6953	-0.0871	-0.1947	0.1253	0.2800	0.0366	0.0029	-0.0150	0.0779	-0.4100
46	0.02	15.18	-0.7717	-0.0893	-0.2211	0.1157	0.2865	0.0288	0.0030	-0.0168	0.1042	-0.5835

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		104	0.97	1.7	0.0	82WUFL3	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2
47	0.02	15.98	-0.8299	-0.0910	-0.2430	0.1097	0.2928	0.0372	0.0044	-0.0124	0.1190	-0.3335
48	0.01	16.76	-0.8971	-0.0911	-0.2737	0.1015	0.3051	0.0383	0.0046	-0.0112	0.1195	-0.2934
49	0.01	17.58	-0.9904	-0.0906	-0.2997	0.0914	0.3026	0.0373	0.0047	-0.0127	0.1247	-0.3397
50	0.02	18.41	-1.0597	-0.0910	-0.3246	0.0859	0.3063	0.0335	0.0032	-0.0134	0.0941	-0.4011
51	0.02	19.24	-1.1069	-0.0907	-0.3445	0.0819	0.3112	0.0440	0.0049	-0.0059	0.1109	-0.1350
52	0.02	20.06	-1.1553	-0.0906	-0.3618	0.0784	0.3131	0.0408	0.0033	-0.0092	0.0809	-0.2256

MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
	6	104	0.97	1.7	0.0	BZWOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	-19.83	1.1507	0.0167	0.4006	0.0146	0.3482	0.0021	-0.0020	-0.0005	-0.9291	-0.2382
2	0.0	-19.87	1.1537	0.0167	0.4016	0.0144	0.3481	0.0023	-0.0021	-0.0005	-0.9136	-0.2320
3	0.0	-18.84	1.1529	0.0173	0.3988	0.0150	0.3459	0.0034	-0.0031	-0.0008	-0.9050	-0.2256
4	0.0	-18.06	1.1344	0.0182	0.3917	0.0160	0.3453	0.0026	-0.0024	-0.0005	-0.9257	-0.2052
5	0.0	-17.17	1.1319	0.0191	0.3890	0.0169	0.3436	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
6	0.0	-16.38	1.1203	0.0201	0.3824	0.0180	0.3413	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
7	-0.03	-15.57	1.0282	0.0244	0.3433	0.0237	0.3339	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
8	-0.03	-14.80	1.0319	0.0247	0.3420	0.0239	0.3315	0.0016	-0.0015	-0.0004	-0.9381	-0.2293
9	-0.03	-13.95	1.0063	0.0260	0.3307	0.0258	0.3286	0.0001	-0.0002	0.0000	-1.5009	0.3332
10	-0.03	-13.14	1.2680	0.0210	0.4194	0.0166	0.3308	0.0002	-0.0002	-0.0000	-0.7505	-0.1668
11	0.0	-12.37	1.3522	0.0216	0.4625	0.0160	0.3420	-0.0001	0.0002	-0.0000	-1.5009	0.3332
12	-0.01	-11.63	1.3335	0.0246	0.4608	0.0184	0.3455	-0.0001	0.0002	-0.0000	-1.5009	0.3332
13	0.0	-10.84	1.3236	0.0286	0.4581	0.0216	0.3446	0.0006	-0.0006	-0.0001	-1.0006	-0.1668
14	0.0	-10.10	1.3115	0.0319	0.4466	0.0243	0.3405	-0.0013	0.0013	0.0003	-0.9614	-0.2052
15	0.0	-9.32	1.2882	0.0363	0.4351	0.0282	0.3408	-0.0010	0.0010	0.0002	-0.9756	-0.1668
16	0.0	-8.56	1.2727	0.0408	0.4374	0.0320	0.3437	-0.0002	0.0002	0.0000	-0.7505	-0.1668
17	0.0	-7.79	1.2505	0.0448	0.4335	0.0358	0.3467	-0.0016	0.0015	0.0004	-0.9381	-0.2293
18	0.0	-6.96	1.2176	0.0481	0.4203	0.0395	0.3452	-0.0023	0.0021	0.0004	-0.9136	-0.1885
19	0.0	-6.16	1.1769	0.0512	0.4029	0.0435	0.3423	-0.0005	0.0005	0.0001	-0.9006	-0.2668
20	0.0	-5.37	1.1340	0.0555	0.3871	0.0489	0.3413	-0.0007	0.0007	0.0002	-0.9649	-0.2382
21	0.0	-4.62	1.1125	0.0604	0.3817	0.0543	0.3431	-0.0017	0.0016	0.0003	-0.9270	-0.1962
22	0.0	-3.81	1.0744	0.0616	0.3737	0.0573	0.3478	-0.0030	0.0028	0.0006	-0.9256	-0.2001
23	0.0	-3.02	1.0338	0.0586	0.3655	0.0567	0.3535	-0.0008	0.0008	0.0001	-0.9381	-0.1668
24	0.0	-2.18	0.9586	0.0562	0.3395	0.0586	0.3542	-0.0014	0.0013	0.0003	-0.9113	-0.2382
25	0.0	-1.39	0.8981	0.0536	0.3194	0.0597	0.3556	-0.0023	0.0022	0.0004	-0.9462	-0.1885
26	0.0	-0.57	0.8263	0.0515	0.2870	0.0623	0.3474	-0.0012	0.0011	0.0003	-0.8755	-0.2501
27	0.0	0.19	0.7471	0.0500	0.2562	0.0604	0.3429	-0.0023	0.0022	0.0004	-0.9462	-0.1885
28	0.0	0.93	0.6877	0.0469	0.2270	0.0682	0.3302	-0.0038	0.0035	0.0007	-0.9282	-0.1931
29	0.01	1.71	0.6040	0.0430	0.2012	0.0712	0.3330	-0.0041	0.0038	0.0008	-0.9152	-0.2034
30	0.0	2.49	0.5249	0.0378	0.1697	0.0720	0.3233	-0.0023	0.0022	0.0004	-0.9462	-0.1885
31	0.01	3.27	0.4536	0.0318	0.1427	0.0700	0.3145	-0.0029	0.0027	0.0005	-0.9316	-0.1840
32	0.01	4.01	0.3728	0.0240	0.1133	0.0643	0.3040	-0.0020	0.0019	0.0004	-0.9381	-0.2168
33	0.01	4.83	0.2910	0.0175	0.0867	0.0601	0.2981	-0.0017	0.0016	0.0003	-0.9270	-0.1962
34	0.01	5.62	0.2408	0.0126	0.0676	0.0524	0.2809	-0.0006	0.0005	0.0001	-0.8755	-0.1668
35	0.01	6.47	0.1735	0.0044	0.0403	0.0255	0.2323	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
36	0.01	7.24	0.1112	-0.0020	0.0178	-0.0176	0.1604	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
37	0.01	8.06	0.0490	-0.0090	-0.0054	-0.1838	-0.1096	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
38	0.01	8.84	-0.0161	-0.0151	-0.0230	0.4369	1.4264	-0.0016	-0.0015	-0.0004	-0.9381	-0.2273
39	0.01	9.68	-0.0907	-0.0244	-0.0441	0.2689	0.4865	0.0034	-0.0032	-0.0008	-0.9270	-0.2256
40	0.01	10.49	-0.1363	-0.0312	-0.0601	0.2292	0.4411	0.0043	-0.0040	-0.0010	-0.9250	-0.2249
41	0.01	11.29	-0.1983	-0.0402	-0.0854	0.2030	0.4306	0.0063	-0.0058	-0.0014	-0.9172	-0.2223
42	0.01	12.07	-0.2668	-0.0482	-0.1046	0.1807	0.3921	0.0070	-0.0065	-0.0015	-0.9220	-0.2096
43	0.02	12.90	-0.3383	-0.0553	-0.1314	0.1636	0.3885	0.0078	-0.0071	-0.0017	-0.9140	-0.2181
44	0.01	13.62	-0.4209	-0.0602	-0.1576	0.1431	0.3743	0.0096	-0.0088	-0.0021	-0.9146	-0.2189
45	0.02	14.45	-0.4933	-0.0636	-0.1886	0.1289	0.3823	0.0104	-0.0096	-0.0022	-0.9237	-0.2149
46	0.02	15.18	-0.5578	-0.0640	-0.2133	0.1147	0.3824	0.0089	-0.0083	-0.0019	-0.9275	-0.2173

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	Rx10-6	PHI	CNF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION	
6		104	0.97	1.7	0.0	BZNOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.98	-0.6477	-0.0634	-0.2423	0.0980	0.3742	0.0126	-0.0116	-0.0027	-0.9232	-0.2144
48	0.01	16.76	-0.7016	-0.0644	-0.2609	0.0917	0.3719	0.0104	-0.0096	-0.0022	-0.9237	-0.2149
49	0.01	17.58	-0.7627	-0.0630	-0.2838	0.0826	0.3720	0.0093	-0.0086	-0.0020	-0.9199	-0.2152
50	0.02	18.41	-0.8345	-0.0612	-0.3153	0.0733	0.3778	0.0086	-0.0080	-0.0018	-0.9250	-0.2133
51	0.02	19.24	-0.9043	-0.0588	-0.3419	0.0650	0.3781	0.0099	-0.0091	-0.0022	-0.9172	-0.2223
52	0.02	20.06	-0.9587	-0.0572	-0.3574	0.0597	0.3728	0.0109	-0.0101	-0.0024	-0.9226	-0.2172

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	OEL4	TRANSITION	
6	105	1.01	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.90	0.1088	-0.3313	4.5173	-10.2737	0.0070	0.5245	-3.0452		
2	0.0	-19.93	0.1086	-0.2500	4.5030	-10.1657	0.0110	0.5324	-2.3024		
3	0.0	-19.84	0.0981	-0.2993	4.5676	-10.1531	0.0210	0.5211	-3.0514		
4	0.0	-19.04	0.1210	-0.3853	4.4055	-10.2482	0.0080	0.5262	-3.1851		
5	0.0	-18.21	0.0752	-0.2918	4.3815	-10.4066	0.0050	0.5203	-3.6854		
6	0.0	-17.35	0.0819	-0.2966	4.1653	-10.2618	0.0070	0.5216	-3.6222		
7	-0.01	-16.56	0.0853	-0.3234	4.0316	-10.2826	0.0050	0.5183	-3.7916		
8	0.0	-15.72	0.0636	-0.2440	3.9273	-10.2696	0.0170	0.5179	-3.8371		
9	-0.01	-14.94	0.0559	-0.2482	3.7526	-10.1770	0.0090	0.5175	-4.4411		
10	0.0	-14.10	0.0732	-0.2175	3.6485	-10.1193	0.0160	0.5126	-2.9710		
11	0.0	-13.29	0.0599	-0.2258	3.4844	-10.0005	0.0140	0.5210	-3.7706		
12	0.0	-12.48	0.0650	-0.2250	3.3635	-9.6362	0.0150	0.5119	-3.4615		
13	0.0	-11.72	0.0575	-0.2345	3.2581	-9.6896	0.0100	0.5027	-4.0783		
14	0.0	-10.93	0.0603	-0.2064	3.0767	-9.4307	0.0120	0.4999	-3.4232		
15	0.0	-10.20	0.0588	-0.1883	2.9602	-9.2246	0.0110	0.4940	-3.2027		
16	0.0	-9.40	0.0558	-0.1671	2.8410	-8.9938	0.0130	0.4781	-2.9950		
17	0.0	-8.65	0.0750	-0.2200	2.7026	-8.7061	0.0150	0.4726	-2.9333		
18	0.0	-7.84	0.0790	-0.2256	2.5521	-8.4303	0.0190	0.4615	-2.8557		
19	0.0	-7.06	0.0834	-0.2527	2.3541	-8.1761	0.0400	0.4484	-3.0307		
20	0.0	-6.24	0.0648	-0.1907	2.3805	-8.2020	0.0150	0.4389	-2.9432		
21	0.0	-5.46	0.0647	-0.2066	2.1599	-7.8832	0.0060	0.4316	-3.1929		
22	0.0	-4.69	0.0722	-0.1881	2.0198	-7.4282	0.0040	0.4179	-2.6050		
23	0.0	-3.92	0.0769	-0.1976	1.9180	-7.0607	0.0	0.4072	-2.5704		
24	0.0	-3.13	0.0628	-0.1569	1.7362	-6.6171	-0.0010	0.3986	-2.4987		
25	0.0	-2.29	0.0375	-0.1135	1.6219	-6.2231	0.0010	0.3905	-3.0267		
26	0.0	-1.48	0.0616	-0.1452	1.4808	-5.7656	-0.0050	0.3816	-2.3578		
27	0.0	-0.67	0.0669	-0.1616	1.2840	-5.2632	-0.0060	0.3716	-2.4164		
28	0.0	0.09	0.0577	-0.1408	1.0829	-4.7716	-0.0040	0.3634	-2.4339		
29	0.01	0.82	0.0589	-0.1094	0.9701	-4.3507	-0.0040	0.3534	-1.6584		
30	0.01	1.62	0.0489	-0.0784	0.8458	-3.8997	-0.0080	0.3388	-1.6045		
31	0.0	2.38	0.0514	-0.1079	0.6543	-3.3837	-0.0070	0.3257	-2.1004		
32	0.0	3.19	0.0305	-0.0677	0.4662	-2.8804	0.0	0.3132	-2.2197		
33	0.01	3.95	0.0558	-0.0761	0.3387	-2.5159	-0.0060	0.3039	-1.3642		
34	0.01	4.68	0.0170	0.0082	0.1911	-2.0833	-0.0010	0.2901	0.4824		
35	0.01	5.34	0.0211	-0.0045	0.0477	-1.6616	0.0040	0.2799	-0.2152		
36	0.01	6.34	0.0334	-0.0326	-0.1384	-1.2311	-0.0010	0.2760	-0.9198		
37	0.01	7.18	-0.0008	0.0621	-0.2918	-0.8854	0.0050	0.2742	-77.6500		
38	0.01	7.95	0.0045	0.0357	-0.4697	-0.4812	0.0	0.2608	7.9333		
39	0.01	8.76	0.0234	0.0292	-0.6183	-0.0832	0.0010	0.2547	1.2446		
40	0.01	9.58	0.0129	0.0509	-0.7140	0.2407	0.0010	0.2443	3.9488		
41	0.01	10.35	0.0055	0.1023	-0.9220	0.6454	-0.0010	0.2238	18.6000		
42	0.01	11.18	0.0161	0.0934	-1.1043	1.0400	-0.0110	0.1924	5.8050		
43	0.01	11.96	0.0083	0.1154	-1.2899	1.4749	-0.0110	0.1822	13.9012		
44	0.02	12.77	0.0103	0.1376	-1.4744	1.9662	-0.0160	0.1574	13.3573		
45	0.02	13.49	0.0244	0.1368	-1.6845	2.3453	-0.0210	0.1404	5.6082		
46	0.02	14.28	-0.0181	0.2063	-1.8897	2.7545	-0.0240	0.1265	-11.4000		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6	105	1.01	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	15.05	-0.0090	0.2306	-2.0834	3.2018	-0.0350	0.0955	-25.6222		
48	0.03	15.85	-0.0234	0.3487	-2.2964	3.2649	-0.0270	0.0735	-14.9043		
49	0.02	16.60	-0.0174	0.2723	-2.4538	3.9552	-0.0340	0.0592	-15.6529		
50	0.03	17.38	0.0032	0.2865	-2.7087	4.3752	-0.0230	0.0266	89.5375		
51	0.02	18.25	-0.0495	0.4072	-2.9308	4.7961	-0.0380	-0.0003	-8.2283		
52	0.02	19.08	-0.0036	0.2690	-3.1017	5.0423	-0.0480	0.0004	-74.7333		
53	0.02	19.86	-0.0337	0.3381	-3.3729	5.3489	-0.0390	-0.0307	-10.0350		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	10.5	1.01	1.7	0.0	B2NOF13	0.0	10	0	10	0	FIXED			
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	0.0	-19.90	1.4854	0.0045	0.5494	0.0030	0.3699	0.0322	0.0016	-0.0154	0.0489	-0.4773		
2	0.0	-19.93	1.4885	0.0044	0.5510	0.0030	0.3702	0.0308	-0.0002	-0.0145	-0.0049	-0.4720		
3	0.0	-19.84	1.4954	0.0040	0.5515	0.0027	0.3688	0.0335	-0.0002	-0.0143	-0.0067	-0.4280		
4	0.0	-19.04	1.4855	0.0051	0.5494	0.0034	0.3699	0.0372	0.0016	-0.0135	0.0424	-0.3630		
5	0.0	-18.21	1.4895	0.0060	0.5490	0.0040	0.3685	0.0317	0.0010	-0.0132	0.0308	-0.4176		
6	0.0	-17.35	1.4802	0.0082	0.5457	0.0055	0.3686	0.0423	0.0013	-0.0061	0.0302	-0.1443		
7	-0.01	-16.56	1.4676	0.0093	0.5407	0.0063	0.3684	0.0370	0.0016	-0.0128	0.0426	-0.3452		
8	0.0	-15.72	1.4532	0.0122	0.5400	0.0084	0.3716	0.0317	-0.0007	-0.0124	-0.0213	-0.3923		
9	-0.01	-14.94	1.4406	0.0139	0.5332	0.0096	0.3701	0.0288	-0.0033	-0.0177	-0.0104	-0.6147		
10	0.0	-14.10	1.4311	0.0170	0.5296	0.0119	0.3701	0.0249	-0.0011	-0.0127	-0.0452	-0.5102		
11	0.0	-13.29	1.3984	0.0200	0.5219	0.0143	0.3732	0.0255	-0.0011	-0.0151	-0.0412	-0.5923		
12	0.0	-12.48	1.3649	0.0232	0.5105	0.0170	0.3743	0.0231	-0.0001	-0.0169	-0.0032	-0.7317		
13	0.0	-11.72	1.3342	0.0273	0.5021	0.0205	0.3763	0.0245	-0.0002	-0.0171	-0.0061	-0.6994		
14	0.0	-10.93	1.2888	0.0305	0.4935	0.0237	0.3629	0.0243	-0.0005	-0.0163	-0.0185	-0.6709		
15	0.0	-10.20	1.2634	0.0351	0.4870	0.0278	0.3855	0.0195	0.0	-0.0189	0.0	-0.9693		
16	0.0	-9.40	1.2254	0.0397	0.4767	0.0324	0.3891	0.0103	0.0	-0.0202	0.0	-1.9580		
17	0.0	-8.65	1.1800	0.0428	0.4616	0.0363	0.3912	0.0100	-0.0002	-0.0190	-0.0150	-1.8968		
18	0.0	-7.84	1.1361	0.0460	0.4507	0.0404	0.3967	0.0146	0.0005	-0.0215	0.0360	-1.4750		
19	0.0	-7.06	1.1269	0.0493	0.4568	0.0437	0.4054	0.0160	0.0005	-0.0217	0.0328	-1.3543		
20	0.0	-6.24	1.1051	0.0465	0.4554	0.0421	0.4121	0.0144	0.0	-0.0206	0.0	-1.4307		
21	0.0	-5.46	1.0537	0.0456	0.4366	0.0433	0.4144	0.0160	0.0002	-0.0217	0.0094	-1.3543		
22	0.0	-4.69	0.9849	0.0446	0.4168	0.0453	0.4232	0.0166	0.0002	-0.0242	0.0090	-1.4559		
23	0.0	-3.92	0.9168	0.0439	0.3950	0.0479	0.4309	0.0213	0.0014	-0.0164	0.0634	-0.7701		
24	0.0	-3.13	0.8593	0.0434	0.3733	0.0505	0.4344	0.0234	0.0011	-0.0193	0.0449	-0.8249		
25	0.0	-2.29	0.7854	0.0424	0.3473	0.0540	0.4421	0.0163	0.0003	-0.0232	0.0184	-1.4214		
26	0.0	-1.48	0.6988	0.0408	0.3173	0.0583	0.4541	0.0173	0.0005	-0.0218	0.0304	-1.2622		
27	0.0	-0.67	0.6203	0.0408	0.2851	0.0658	0.4597	0.0210	0.0009	-0.0205	0.0429	-0.9763		
28	0.0	0.09	0.5442	0.0392	0.2570	0.0720	0.4722	0.0210	0.0009	-0.0201	0.0429	-0.9573		
29	0.01	0.82	0.4763	0.0375	0.2334	0.0788	0.4901	0.0258	0.0017	-0.0181	0.0669	-0.7017		
30	0.01	1.62	0.3821	0.0336	0.1997	0.0878	0.5225	0.0234	0.0012	-0.0192	0.0513	-0.8206		
31	0.0	2.38	0.3132	0.0285	0.1740	0.0911	0.5556	0.0256	0.0016	-0.0172	0.0616	-0.6707		
32	0.0	3.19	0.2374	0.0230	0.1474	0.0968	0.6206	0.0283	0.0017	-0.0173	0.0610	-0.6102		
33	0.01	3.95	0.1576	0.0169	0.1210	0.1072	0.7681	0.0249	0.0014	-0.0196	0.0573	-0.7873		
34	0.01	4.68	0.0836	0.0102	0.0987	0.1221	1.1801	0.0211	0.0007	-0.0201	0.0320	-0.9511		
35	0.01	5.54	0.0277	0.0032	0.0739	0.1138	2.6653	0.0224	0.0011	-0.0201	0.0503	-0.8989		
36	0.01	6.34	-0.0466	-0.0033	0.0524	0.0709	-1.1239	0.0324	0.0020	-0.0170	0.0625	-0.5248		
37	0.01	7.18	-0.1064	-0.0113	0.0299	0.1059	-0.2811	0.0218	0.0005	-0.0230	0.0207	-1.0567		
38	0.01	7.95	-0.1710	-0.0197	0.0073	0.1151	-0.0424	0.0326	0.0020	-0.0177	0.0599	-0.5441		
39	0.01	8.76	-0.2285	-0.0291	-0.0154	0.1272	0.0675	0.0301	0.0020	-0.0185	0.0673	-0.6136		
40	0.01	9.58	-0.2720	-0.0382	-0.0360	0.1405	0.1324	0.0300	0.0023	-0.0104	0.0715	-0.6135		
41	0.01	10.35	-0.3516	-0.0496	-0.0589	0.1412	0.1676	0.0280	0.0014	-0.0208	0.0509	-0.7418		
42	0.01	11.18	-0.4054	-0.0595	-0.0841	0.1409	0.2074	0.0354	0.0023	-0.0181	0.0636	-0.5114		
43	0.01	11.96	-0.4700	-0.0681	-0.1087	0.1449	0.2312	0.0350	0.0024	-0.0165	0.0686	-0.4725		
44	0.02	12.77	-0.5518	-0.0751	-0.1363	0.1361	0.2471	0.0376	0.0029	-0.0161	0.0758	-0.4274		
45	0.02	13.49	-0.6116	-0.0797	-0.1627	0.1303	0.2660	0.0444	0.0039	-0.0109	0.0879	-0.2456		
46	0.02	14.28	-0.6892	-0.0832	-0.1894	0.1207	0.2749	0.0402	0.0027	-0.0154	0.0672	-0.3832		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	105	1.01	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
47	0.02	15.05	-0.7649	-0.0870	-0.2156	0.1138	0.2818	0.0401	0.0034	-0.0151	0.0842	-0.3775
48	0.03	15.85	-0.8224	-0.0890	-0.2392	0.1682	0.2909	0.0382	0.0033	-0.0184	0.0864	-0.4809
49	0.02	16.60	-0.8978	-0.0899	-0.2627	0.1601	0.2926	0.0451	0.0039	-0.0135	0.0865	-0.2987
50	0.03	17.38	-0.9655	-0.0890	-0.2850	0.0922	0.2952	0.0445	0.0042	-0.0165	0.0944	-0.3702
51	0.02	18.25	-1.0372	-0.0884	-0.3110	0.0852	0.2998	0.0346	0.0026	-0.0198	0.0737	-0.5714
52	0.02	19.08	-1.0903	-0.0867	-0.3324	0.0795	0.3049	0.0476	0.0042	-0.0120	0.0883	-0.2529
53	0.02	19.86	-1.1373	-0.0864	-0.3454	0.0760	0.3072	0.0484	0.0042	-0.0097	0.0868	-0.1998

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF3	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		105		1.01		1.7	0.0	B2MOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	0.0	-19.90	1.5253	0.0039	0.5442	0.0026	0.3568	0.0019	-0.0018	-0.0004	-0.9480	-0.1931		
2	0.0	-19.93	1.5016	0.0044	0.5363	0.0029	0.3571	0.0026	-0.0024	-0.0005	-0.9237	-0.2052		
3	0.0	-19.84	1.5010	0.0046	0.5304	0.0031	0.3533	0.0031	-0.0029	-0.0007	-0.9199	-0.2152		
4	0.0	-19.04	1.5151	0.0044	0.5441	0.0029	0.3591	0.0024	-0.0024	-0.0005	-0.9381	-0.2085		
5	0.0	-18.21	1.5337	0.0046	0.5486	0.0030	0.3577	0.0027	-0.0025	-0.0006	-0.9172	-0.2223		
6	0.0	-17.35	1.5016	0.0071	0.5303	0.0048	0.3531	0.0016	-0.0015	-0.0004	-0.9381	-0.2293		
7	-0.01	-16.56	1.5158	0.0083	0.5372	0.0054	0.3544	0.0027	-0.0025	-0.0006	-0.9172	-0.2223		
8	0.0	-15.72	1.5054	0.0102	0.5286	0.0068	0.3512	0.0004	-0.0003	-0.0001	-0.7505	-0.1668		
9	-0.01	-14.94	1.4858	0.0124	0.5250	0.0083	0.3533	0.0016	-0.0014	-0.0004	-0.8912	-0.2293		
10	0.0	-14.10	1.4720	0.0146	0.5177	0.0099	0.3517	0.0010	-0.0009	-0.0003	-0.9006	-0.2668		
11	0.0	-13.29	1.4692	0.0175	0.5107	0.0119	0.3476	-0.0001	0.0001	-0.0000	-0.7505	0.3332		
12	0.0	-12.48	1.4445	0.0209	0.5027	0.0145	0.3480	0.0004	-0.0003	-0.0001	-0.7505	-0.1668		
13	0.0	-11.72	1.4266	0.0246	0.4939	0.0172	0.3462	0.0002	-0.0002	-0.0000	-0.7505	-0.1668		
14	0.0	-10.93	1.4024	0.0277	0.4829	0.0198	0.3443	-0.0005	0.0005	0.0001	-0.9006	-0.2668		
15	0.0	-10.20	1.3792	0.0316	0.4763	0.0229	0.3453	-0.0005	0.0005	0.0001	-0.9006	-0.2668		
16	0.0	-9.40	1.3539	0.0363	0.4672	0.0268	0.3450	-0.0017	0.0016	0.0003	-0.9270	-0.1962		
17	0.0	-8.65	1.3209	0.0390	0.4558	0.0295	0.3450	-0.0039	0.0036	0.0008	-0.9237	-0.2052		
18	0.0	-7.84	1.2727	0.0415	0.4400	0.0326	0.3457	-0.0032	0.0029	0.0006	-0.9146	-0.1980		
19	0.0	-7.06	1.2344	0.0446	0.4266	0.0361	0.3456	-0.0015	0.0014	0.0003	-0.9506	-0.2001		
20	0.0	-6.24	1.2594	0.0472	0.4452	0.0375	0.3535	-0.0018	0.0017	0.0004	-0.9172	-0.2223		
21	0.0	-5.46	1.2355	0.0448	0.4375	0.0362	0.3541	-0.0029	0.0027	0.0005	-0.9316	-0.1840		
22	0.0	-4.69	1.1674	0.0445	0.4171	0.0381	0.3573	-0.0008	0.0007	0.0001	-0.8443	-0.1668		
23	0.0	-3.92	1.1129	0.0434	0.3966	0.0390	0.3563	-0.0037	0.0035	0.0008	-0.9330	-0.2073		
24	0.0	-3.13	1.0516	0.0427	0.3696	0.0406	0.3515	-0.0014	0.0013	0.0003	-0.9113	-0.2382		
25	0.0	-2.29	0.9794	0.0414	0.3447	0.0422	0.3519	-0.0008	0.0007	0.0001	-0.8443	-0.1668		
26	0.0	-1.48	0.9113	0.0405	0.3202	0.0444	0.3513	-0.0031	0.0029	0.0007	-0.9199	-0.2152		
27	0.0	-0.67	0.8518	0.0408	0.2862	0.0480	0.3360	-0.0032	0.0029	0.0006	-0.9146	-0.1980		
28	0.0	0.09	0.7761	0.0393	0.2555	0.0506	0.3297	-0.0029	0.0027	0.0005	-0.9316	-0.1840		
29	0.01	0.82	0.7020	0.0375	0.2292	0.0534	0.3265	-0.0031	0.0029	0.0007	-0.9199	-0.2152		
30	0.01	1.62	0.6289	0.0354	0.2005	0.0562	0.3187	-0.0027	0.0026	0.0005	-0.9450	-0.1853		
31	0.0	2.38	0.5416	0.0309	0.1692	0.0571	0.3123	-0.0026	0.0024	0.0005	-0.9237	-0.2052		
32	0.0	3.19	0.4651	0.0255	0.1387	0.0549	0.2981	-0.0029	0.0027	0.0005	-0.9316	-0.1840		
33	0.01	3.95	0.3970	0.0216	0.1183	0.0545	0.2979	-0.0020	0.0018	0.0004	-0.9006	-0.2168		
34	0.01	4.68	0.3184	0.0149	0.0920	0.0469	0.2889	-0.0007	0.0007	0.0002	-0.9649	-0.2382		
35	0.01	5.54	0.2498	0.0099	0.0647	0.0397	0.2591	0.0	0.0	0.0	0.0	0.0		
36	0.01	6.34	0.1852	0.0050	0.0438	0.0272	0.2365	0.0007	-0.0006	-0.0002	-0.8577	-0.2382		
37	0.01	7.18	0.1167	-0.0018	0.0160	-0.0154	0.1368	0.0012	-0.0011	-0.0003	-0.9381	-0.2501		
38	0.01	7.95	0.0710	-0.0065	-0.0026	-0.0920	-0.0372	0.0014	-0.0013	-0.0003	-0.9113	-0.2382		
39	0.01	8.76	-0.0092	-0.0134	-0.0215	1.4520	2.3332	0.0019	-0.0017	-0.0005	-0.9085	-0.2457		
40	0.01	9.58	-0.0654	-0.0197	-0.0410	0.3018	0.6268	0.0036	-0.0033	-0.0008	-0.9172	-0.2223		
41	0.01	10.35	-0.1201	-0.0276	-0.0645	0.2301	0.5374	0.0043	-0.0039	-0.0010	-0.9075	-0.2249		
42	0.01	11.18	-0.1893	-0.0371	-0.0871	0.1959	0.4601	0.0062	-0.0057	-0.0013	-0.9199	-0.2152		
43	0.01	11.96	-0.2621	-0.0451	-0.1087	0.1721	0.4145	0.0080	-0.0074	-0.0017	-0.9193	-0.2168		
44	0.02	12.77	-0.3391	-0.0510	-0.1352	0.1504	0.3987	0.0103	-0.0095	-0.0023	-0.9180	-0.2202		
45	0.02	13.49	-0.4092	-0.0550	-0.1604	0.1345	0.3919	0.0104	-0.0096	-0.0022	-0.9237	-0.2149		
46	0.02	14.28	-0.4717	-0.0576	-0.1865	0.1208	0.3954	0.0110	-0.0101	-0.0024	-0.9210	-0.2213		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		105	1.01	1.7	0.0	B2W0F13	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.02	15.05	-0.5428	-0.0576	-0.2165	0.1001	0.3988	0.0103	-0.0095	-0.0023	-0.9253	-0.2202	
48	0.03	15.85	-0.6129	-0.0571	-0.2416	0.0532	0.3941	0.0120	-0.0111	-0.0026	-0.9256	-0.2168	
49	0.02	16.60	-0.6769	-0.0568	-0.2653	0.0839	0.3919	0.0128	-0.0119	-0.0027	-0.9264	-0.2137	
50	0.03	17.38	-0.7351	-0.0574	-0.2869	0.0781	0.3902	0.0098	-0.0091	-0.0021	-0.9266	-0.2178	
51	0.02	18.25	-0.7932	-0.0553	-0.3088	0.0698	0.3893	0.0115	-0.0106	-0.0026	-0.9201	-0.2233	
52	0.02	19.08	-0.8539	-0.0531	-0.3308	0.0622	0.3875	0.0110	-0.0102	-0.0023	-0.9279	-0.2122	
53	0.02	19.86	-0.9203	-0.0493	-0.3595	0.0536	0.3906	0.0139	-0.0128	-0.0031	-0.9232	-0.2207	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION	
6	106	1.05	1.7	0.0	B2NOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-0.01	-19.88	0.1141	-0.4057	4.6316	-10.3877	0.0050	0.5987	-3.5560		
2	-0.01	-19.55	0.0725	-0.2955	4.5076	-10.3311	0.0050	0.6010	-4.0759		
3	-0.01	-18.79	0.1079	-0.3750	4.4449	-10.3813	-0.0050	0.5937	-3.4760		
4	0.0	-17.97	0.0847	-0.2985	4.3503	-10.4699	0.0	0.6052	-3.5251		
5	-0.01	-17.09	0.0968	-0.3395	4.1796	-10.3458	0.0140	0.6025	-3.5074		
6	0.0	-16.32	0.0862	-0.4096	4.0110	-10.3187	0.0090	0.5991	-3.5926		
7	-0.01	-15.48	0.0788	-0.3283	3.8726	-10.2390	0.0070	0.6024	-4.1665		
8	-0.01	-14.71	0.0739	-0.3076	3.6774	-10.0897	0.0040	0.6062	-4.1605		
9	0.0	-13.86	0.0719	-0.2586	3.5723	-9.9476	0.0060	0.5937	-3.5975		
10	0.0	-13.04	0.0575	-0.2015	3.3538	-9.7826	0.0040	0.5972	-3.5043		
11	0.0	-12.25	0.0805	-0.2327	3.3178	-9.6602	0.0090	0.5802	-2.8907		
12	0.0	-11.50	0.0789	-0.2544	3.1330	-9.4305	0.0120	0.5847	-3.2251		
13	0.0	-10.73	0.0642	-0.2229	3.0335	-9.3352	0.0110	0.5673	-3.4716		
14	0.0	-9.99	0.0662	-0.2374	3.0076	-9.2150	0.0130	0.5526	-3.4821		
15	0.0	-9.18	0.0749	-0.2438	2.8987	-9.2285	0.0420	0.5572	-3.2558		
16	0.0	-8.44	0.0571	-0.1729	2.7650	-9.1044	0.0130	0.5557	-3.0287		
17	0.0	-7.63	0.0546	-0.1784	2.5875	-8.8268	0.0160	0.5551	-3.2681		
18	0.0	-6.84	0.0660	-0.1574	2.4563	-8.5651	0.0050	0.5450	-2.3848		
19	0.0	-6.02	0.0451	-0.1331	2.2847	-8.1629	0.0050	0.5338	-2.9521		
20	0.0	-5.26	0.0548	-0.1257	2.2450	-7.9004	0.0320	0.5042	-2.2942		
21	0.01	-4.46	0.0557	-0.1480	2.0204	-7.3950	0.0	0.4967	-2.6507		
22	0.0	-3.70	0.0547	-0.1376	1.8083	-6.8780	-0.0010	0.4825	-2.5152		
23	0.0	-2.83	0.0466	-0.1022	1.6712	-6.4561	0.0020	0.4718	-2.1940		
24	0.0	-2.06	0.0601	-0.1331	1.6190	-6.1331	0.0010	0.4551	-2.2153		
25	0.0	-1.25	0.0488	-0.1083	1.3876	-5.6332	-0.0060	0.4475	-2.2197		
26	0.01	-0.45	0.0553	-0.0984	1.2116	-5.1109	-0.0030	0.4336	-1.7797		
27	0.0	0.34	0.0256	-0.0438	1.0888	-4.6848	-0.0020	0.4249	-1.7125		
28	0.0	1.09	0.0394	-0.0752	0.8544	-4.1198	-0.0030	0.4112	-1.9076		
29	0.01	1.87	0.0488	-0.0793	0.6936	-3.7257	-0.0090	0.4014	-1.6254		
30	0.01	2.63	0.0450	-0.0860	0.5201	-3.2629	-0.0030	0.3879	-1.9111		
31	0.01	3.39	0.0335	-0.0339	0.4494	-2.8379	-0.0080	0.3793	-1.0119		
32	0.01	4.19	0.0146	0.0156	0.2793	-2.3217	0.0080	0.3657	1.3397		
33	0.01	4.99	0.0369	-0.0187	0.1047	-1.8923	-0.0050	0.3545	-0.5057		
34	0.01	5.82	0.0124	0.0556	-0.0703	-1.5444	0.0010	0.3481	4.4871		
35	0.01	6.61	0.0079	0.0899	-0.2011	-1.1673	0.0010	0.3423	11.3848		
36	0.01	7.43	0.0106	0.0492	-0.3632	-0.6904	-0.0030	0.3327	4.6377		
37	0.01	8.21	-0.0071	0.1169	-0.5305	-0.4041	0.0030	0.3265	-16.4704		
38	0.01	9.06	0.0171	0.0810	-0.6784	0.0166	0.0020	0.3079	4.7403		
39	0.01	9.84	-0.0084	0.1317	-0.8578	0.4560	0.0020	0.2921	-15.6857		
40	0.01	10.67	-0.0035	0.1319	-1.0038	0.8114	-0.0040	0.2779	-37.6857		
41	0.01	11.45	0.0156	0.0861	-1.2221	1.3050	-0.0120	0.2507	5.5231		
42	0.01	12.26	-0.0107	0.1300	-1.4329	1.7811	-0.0210	0.2342	-12.1477		
43	0.02	13.03	-0.0066	0.1752	-1.5511	2.1665	-0.0150	0.2112	-26.5515		
44	0.02	13.81	0.0097	0.1524	-1.7868	2.6485	-0.0260	0.1846	15.7134		
45	0.02	14.56	-0.0104	0.2165	-1.9607	2.9060	-0.0290	0.1771	-20.8231		
46	0.02	15.35	0.0084	0.2332	-2.1461	3.3675	-0.0210	0.1427	27.7667		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		106	1.05	1.7		0.0	B2W0F13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.02	16.11	0.0082	0.1665	-2.3861	3.7305	-0.0400	0.1202	20.3073				
48	0.02	16.89	0.0029	0.2329	-2.5381	4.0032	-0.0340	0.0968	80.3241				
49	0.02	17.72	-0.0294	0.3071	-2.7865	4.3601	-0.0310	0.0704	-10.4476				
50	0.02	18.55	0.0047	0.2554	-3.0244	4.7061	-0.0390	0.0520	54.3447				
51	0.03	19.39	-0.0409	0.4362	-3.1790	4.9425	-0.0290	0.0310	-10.6665				
52	0.02	20.16	-0.0346	0.3464	-3.3993	5.1599	-0.0460	0.0226	-10.0127				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		106 1.05 1.7		0.0	82W0F13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-19.88	1.5201	0.0031	0.5696	0.0020	0.3747	0.0460	0.0025	-0.0127	0.0538	-0.2755
2	-0.01	-19.55	1.5086	0.0031	0.5704	0.0020	0.3781	0.0437	0.0010	-0.0081	0.0223	-0.1862
3	-0.01	-18.79	1.5038	0.0038	0.5636	0.0025	0.3748	0.0458	0.0039	-0.0124	0.0852	-0.2716
4	0.0	-17.97	1.5192	0.0051	0.5691	0.0034	0.3746	0.0485	0.0015	-0.0065	0.0309	-0.1348
5	-0.01	-17.09	1.4978	0.0080	0.5661	0.0054	0.3780	0.0389	-0.0010	-0.0092	-0.0251	-0.2375
6	0.0	-16.32	1.4759	0.0098	0.5565	0.0066	0.3771	0.0461	0.0005	-0.0128	0.0114	-0.2785
7	-0.01	-15.48	1.4650	0.0122	0.5471	0.0084	0.3734	0.0460	0.0010	-0.0128	0.0212	-0.2777
8	-0.01	-14.71	1.4319	0.0144	0.5385	0.0101	0.3760	0.0417	0.0	-0.0162	0.0	-0.3886
9	0.0	-13.86	1.4008	0.0169	0.5263	0.0121	0.3757	0.0403	0.0003	-0.0160	0.0074	-0.3963
10	0.0	-13.04	1.3797	0.0194	0.5169	0.0141	0.3746	0.0345	-0.0003	-0.0186	-0.0087	-0.5392
11	0.0	-12.25	1.3520	0.0235	0.5092	0.0174	0.3766	0.0332	-0.0007	-0.0185	-0.0203	-0.5584
12	0.0	-11.50	1.3162	0.0272	0.5013	0.0207	0.3809	0.0329	0.0006	-0.0182	0.0182	-0.5543
13	0.0	-10.73	1.2850	0.0338	0.4970	0.0263	0.3868	0.0207	-0.0002	-0.0209	-0.0073	-1.0098
14	0.0	-9.99	1.2657	0.0375	0.4945	0.0297	0.3910	0.0196	0.0005	-0.0221	0.0268	-1.1260
15	0.0	-9.18	1.2419	0.0358	0.5148	0.0277	0.3985	0.0279	0.0004	-0.0191	0.0134	-0.6847
16	0.0	-8.44	1.2422	0.0350	0.5067	0.0282	0.4079	0.0156	0.0001	-0.0217	0.0048	-1.3911
17	0.0	-7.63	1.2088	0.0342	0.4954	0.0283	0.4099	0.0113	-0.0001	-0.0251	-0.0066	-2.2243
18	0.0	-6.84	1.1646	0.0355	0.4818	0.0305	0.4137	0.0197	0.0	-0.0227	0.0	-1.1541
19	0.0	-6.02	1.0915	0.0358	0.4593	0.0328	0.4208	0.0163	-0.0002	-0.0247	-0.0092	-1.5134
20	0.0	-5.26	1.0332	0.0376	0.4393	0.0364	0.4252	0.0235	0.0	-0.0223	0.0	-0.9476
21	0.01	-4.46	0.9516	0.0378	0.4138	0.0398	0.4349	0.0184	0.0003	-0.0228	0.0163	-1.2374
22	0.0	-3.70	0.8876	0.0387	0.3891	0.0436	0.4384	0.0173	0.0002	-0.0234	0.0130	-1.3546
23	0.0	-2.83	0.8238	0.0387	0.3625	0.0469	0.4400	0.0172	0.0005	-0.0233	0.0262	-1.3528
24	0.0	-2.06	0.7391	0.0382	0.3377	0.0517	0.4569	0.0173	0.0004	-0.0235	0.0217	-1.3604
25	0.0	-1.25	0.6618	0.0376	0.3074	0.0568	0.4645	0.0176	0.0004	-0.0247	0.0213	-1.4054
26	0.01	-0.45	0.5912	0.0370	0.2798	0.0626	0.4733	0.0289	0.0015	-0.0190	0.0519	-0.6564
27	0.0	0.34	0.5211	0.0351	0.2529	0.0674	0.4853	0.0172	0.0005	-0.0235	0.0305	-1.3645
28	0.0	1.09	0.4274	0.0336	0.2219	0.0787	0.5191	0.0211	0.0008	-0.0237	0.0356	-1.1218
29	0.01	1.87	0.3537	0.0294	0.1898	0.0830	0.5366	0.0247	0.0011	-0.0225	0.0425	-0.9097
30	0.01	2.63	0.2575	0.0245	0.1646	0.0950	0.6390	0.0284	0.0014	-0.0221	0.0476	-0.7795
31	0.01	3.39	0.2080	0.0190	0.1397	0.0913	0.6714	0.0280	0.0015	-0.0207	0.0536	-0.7382
32	0.01	4.19	0.1324	0.0118	0.1120	0.0891	0.8464	0.0224	0.0010	-0.0240	0.0436	-1.0730
33	0.01	4.99	0.0602	0.0041	0.0835	0.0873	1.3864	0.0281	0.0017	-0.0211	0.0588	-0.7522
34	0.01	5.82	0.0038	-0.0020	0.0610	-0.5332	16.0437	0.0287	0.0011	-0.0235	0.0392	-0.8201
35	0.01	6.61	-0.0452	-0.0084	0.0376	0.1860	-0.8305	0.0239	0.0002	-0.0245	0.0094	-1.0266
36	0.01	7.43	-0.1153	-0.0164	0.0136	0.1427	-0.1182	0.0306	0.0007	-0.0204	0.0221	-0.6608
37	0.01	8.21	-0.1907	-0.0248	-0.0055	0.1299	0.0289	0.0256	0.0007	-0.0212	0.0264	-0.8269
38	0.01	9.06	-0.2559	-0.0333	-0.0246	0.1303	0.0963	0.0327	0.0012	-0.0187	0.0367	-0.5720
39	0.01	9.84	-0.3170	-0.0423	-0.0486	0.1336	0.1533	0.0257	0.0007	-0.0212	0.0263	-0.8263
40	0.01	10.67	-0.3776	-0.0512	-0.0743	0.1356	0.1968	0.0225	0.0005	-0.0239	0.0200	-1.0623
41	0.01	11.45	-0.4491	-0.0582	-0.0969	0.1296	0.2158	0.0364	0.0015	-0.0178	0.0412	-0.4882
42	0.01	12.26	-0.5366	-0.0665	-0.1258	0.1238	0.2344	0.0371	0.0020	-0.0155	0.0526	-0.4188
43	0.02	13.03	-0.6106	-0.0716	-0.1511	0.1172	0.2475	0.0373	0.0017	-0.0165	0.0463	-0.4416
44	0.02	13.81	-0.6777	-0.0763	-0.1800	0.1126	0.2656	0.0470	0.0027	-0.0140	0.0575	-0.2987
45	0.02	14.56	-0.7391	-0.0788	-0.2035	0.1067	0.2753	0.0340	0.0017	-0.0183	0.0486	-0.5374
46	0.02	15.35	-0.8167	-0.0820	-0.2271	0.1004	0.2781	0.0423	0.0026	-0.0158	0.0621	-0.3736

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RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	106	1.05	1.7	0.0	82WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YC PF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	0.02	16.11	-0.8808	-0.0835	-0.2542	0.0448	0.2886	0.0603	0.0056	-0.0055	0.0921	-0.0913
48	0.02	16.89	-0.9329	-0.0848	-0.2727	0.0910	0.2924	0.0538	0.0043	-0.0100	0.0795	-0.1854
49	0.02	17.72	-0.9886	-0.0863	-0.2909	0.0873	0.2943	0.0495	0.0039	-0.0135	0.0788	-0.2728
50	0.02	18.55	-1.0415	-0.0865	-0.3170	0.0831	0.3044	0.0547	0.0053	-0.0086	0.0974	-0.1567
51	0.03	19.39	-1.0714	-0.0867	-0.3273	0.0809	0.3055	0.0507	0.0040	-0.0129	0.0785	-0.2546
52	0.02	20.16	-1.1310	-0.0834	-0.3533	0.0738	0.3123	0.0547	0.0047	-0.0080	0.0851	-0.1458

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.05	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.88	1.5836	0.0018	0.5631	0.0011	0.3556	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
2	-0.01	-19.55	1.5811	0.0018	0.5591	0.0011	0.3536	0.0031	-0.0029	-0.0007	-0.9199	-0.2152
3	-0.01	-18.79	1.5729	0.0031	0.5631	0.0020	0.3580	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
4	0.0	-17.97	1.5753	0.0038	0.5569	0.0024	0.3535	0.0027	-0.0025	-0.0006	-0.9172	-0.2223
5	-0.01	-17.09	1.5560	0.0058	0.5509	0.0037	0.3540	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
6	0.0	-16.32	1.5445	0.0081	0.5460	0.0053	0.3535	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
7	-0.01	-15.48	1.5259	0.0106	0.5435	0.0069	0.3562	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
8	-0.01	-14.71	1.5183	0.0125	0.5351	0.0082	0.3525	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
9	0.0	-13.86	1.4831	0.0159	0.5253	0.0107	0.3542	0.0003	-0.0003	-0.0000	-1.0006	-0.0001
10	0.0	-13.04	1.4653	0.0185	0.5144	0.0127	0.3510	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
11	0.0	-12.25	1.4551	0.0218	0.5029	0.0150	0.3456	0.0012	-0.0011	-0.0003	-0.8755	-0.2501
12	0.0	-11.50	1.4329	0.0249	0.4911	0.0174	0.3427	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
13	0.0	-10.73	1.4141	0.0315	0.4924	0.0222	0.3482	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
14	0.0	-9.99	1.4045	0.0338	0.4851	0.0241	0.3454	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
15	0.0	-9.18	1.3777	0.0361	0.4766	0.0262	0.3459	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
16	0.0	-8.44	1.3985	0.0348	0.4590	0.0249	0.3568	0.0001	-0.0001	0.0000	-0.7505	0.3332
17	0.0	-7.63	1.3691	0.0327	0.4517	0.0239	0.3592	-0.0008	0.0008	0.0001	-0.9381	-0.1668
18	0.0	-6.84	1.3415	0.0331	0.4794	0.0247	0.3574	0.0001	-0.0001	0.0000	-0.7505	0.3332
19	0.0	-6.02	1.2753	0.0333	0.4573	0.0261	0.3586	-0.0001	0.0001	-0.0000	-0.7505	0.3332
20	0.0	-5.26	1.2195	0.0342	0.4386	0.0281	0.3596	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
21	0.01	-4.46	1.1596	0.0351	0.4129	0.0303	0.3561	-0.0011	0.0010	0.0002	-0.8869	-0.2122
22	0.0	-3.70	1.0980	0.0357	0.3861	0.0325	0.3516	-0.0010	0.0009	0.0002	-0.9006	-0.1668
23	0.0	-2.83	1.0299	0.0357	0.3593	0.0346	0.3489	-0.0010	0.0009	0.0002	-0.9006	-0.1668
24	0.0	-2.06	0.9699	0.0360	0.3355	0.0372	0.3463	-0.0019	0.0018	0.0004	-0.9480	-0.1931
25	0.0	-1.25	0.8980	0.0354	0.3078	0.0394	0.3428	-0.0025	0.0023	0.0006	-0.9006	-0.2268
26	0.01	-0.45	0.8233	0.0359	0.2756	0.0436	0.3347	-0.0024	0.0022	0.0005	-0.9066	-0.2085
27	0.0	0.34	0.7585	0.0344	0.2490	0.0453	0.3283	-0.0022	0.0020	0.0005	-0.9210	-0.2122
28	0.0	1.09	0.6821	0.0330	0.2202	0.0484	0.3228	-0.0024	0.0022	0.0005	-0.9068	-0.2085
29	0.01	1.87	0.6055	0.0305	0.1913	0.0511	0.3159	-0.0025	0.0023	0.0006	-0.9006	-0.2268
30	0.01	2.63	0.5353	0.0277	0.1611	0.0518	0.3009	-0.0024	0.0026	0.0006	-0.9113	-0.2025
31	0.01	3.39	0.4528	0.0235	0.1349	0.0519	0.2979	-0.0015	0.0014	0.0003	-0.9006	-0.2001
32	0.01	4.19	0.3686	0.0176	0.1082	0.0479	0.2936	-0.0020	0.0019	0.0003	-0.9381	-0.1668
33	0.01	4.99	0.3046	0.0125	0.0805	0.0412	0.2842	-0.0013	0.0011	0.0003	-0.8659	-0.2052
34	0.01	5.82	0.2452	0.0069	0.0543	0.0277	0.2180	0.0003	-0.0003	-0.0000	-1.0006	-0.0001
35	0.01	6.61	0.1805	0.0014	0.0296	0.0079	0.1641	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
36	0.01	7.43	0.1271	-0.0032	0.0070	-0.0248	0.0553	0.0015	-0.0014	-0.0003	-0.9506	-0.2001
37	0.01	8.21	0.0538	-0.0054	-0.0152	-0.1744	-0.2820	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
38	0.01	9.06	-0.0111	-0.0152	-0.0360	1.3657	3.2431	0.0032	-0.0030	-0.0006	-0.9381	-0.1980
39	0.01	9.84	-0.0725	-0.0219	-0.0579	0.3023	0.7980	0.0049	-0.0045	-0.0011	-0.9189	-0.2178
40	0.01	10.67	-0.1421	-0.0281	-0.0765	0.1977	0.5101	0.0067	-0.0067	-0.0015	-0.9185	-0.2190
41	0.01	11.45	-0.2059	-0.0339	-0.1000	0.1648	0.4058	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
42	0.01	12.26	-0.2898	-0.0404	-0.1294	0.1394	0.4465	0.0095	-0.0088	-0.0020	-0.9243	-0.2142
43	0.02	13.03	-0.3725	-0.0452	-0.1539	0.1213	0.4133	0.0091	-0.0084	-0.0020	-0.9237	-0.2162
44	0.02	13.81	-0.4479	-0.0478	-0.1802	0.1068	0.4022	0.0107	-0.0098	-0.0023	-0.9188	-0.2182
45	0.02	14.56	-0.5007	-0.0484	-0.2054	0.0967	0.4102	0.0116	-0.0107	-0.0025	-0.9251	-0.2185
46	0.02	15.35	-0.5741	-0.0500	-0.2341	0.0871	0.4078	0.0106	-0.0098	-0.0023	-0.9275	-0.2140

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		10	1.05	1.7	0.0	B2WQF13	0.0	10	0	10	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.02	16.11	-0.6390	-0.0496	-0.2619	0.0777	0.4098	0.0126	-0.0116	-0.0028	-0.9232	-0.2223	
48	0.02	16.89	-0.6859	-0.0502	-0.2804	0.0731	0.4088	0.0109	-0.0101	-0.0024	-0.9226	-0.2172	
49	0.02	17.72	-0.7452	-0.0495	-0.3063	0.0664	0.4111	0.0116	-0.0107	-0.0025	-0.9251	-0.2185	
50	0.02	18.55	-0.7952	-0.0497	-0.3236	0.0625	0.4069	0.0081	-0.0075	-0.0018	-0.9265	-0.2223	
51	0.03	19.39	-0.8610	-0.0485	-0.3483	0.0563	0.4046	0.0157	-0.0145	-0.0035	-0.9225	-0.2209	
52	0.02	20.16	-0.8970	-0.0472	-0.3612	0.0527	0.4027	0.0084	-0.0077	-0.0018	-0.9202	-0.2144	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	107	1.10	1.7	0.0	B2M0-13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-0.01	-20.04	0.0934	-0.3437	4.7277	-10.3493	-0.0270	0.6343	-3.6805		
2	0.0	-19.06	0.0624	-0.1363	4.7588	-10.4008	-0.0100	0.6438	-2.1853		
3	0.01	-18.88	0.0653	-0.1254	4.6791	-10.4142	-0.0090	0.6298	-1.9207		
4	0.0	-18.11	0.0262	-0.1057	4.3364	-10.1985	0.0	0.6422	-4.0336		
5	-0.01	-17.22	0.0665	-0.2611	4.2864	-10.2755	-0.0180	0.6149	-3.9263		
6	0.0	-16.45	0.0486	-0.2050	4.0357	-10.0844	-0.0140	0.6230	-4.2189		
7	-0.01	-15.61	0.0288	-0.1783	3.8624	-9.9378	-0.0030	0.6197	-6.1917		
8	0.0	-14.84	0.0279	-0.1680	3.7056	-9.8453	-0.0080	0.6184	-6.0237		
9	0.0	-14.00	0.0276	-0.0946	3.5631	-9.7248	-0.0060	0.6019	-3.4290		
10	0.0	-13.17	0.0530	-0.1542	3.4752	-9.5497	0.0020	0.6009	-2.9094		
11	0.0	-12.37	0.0349	-0.1488	3.2714	-9.3623	0.0100	0.6065	-4.2653		
12	0.0	-11.62	0.0556	-0.1278	3.1926	-9.2360	0.0080	0.5853	-2.2993		
13	0.0	-10.84	0.0340	-0.1136	3.1350	-9.4073	0.0410	0.5872	-3.3412		
14	0.0	-10.12	0.0210	-0.0464	3.0323	-9.3146	0.0050	0.5843	-2.2095		
15	0.0	-9.34	0.0331	-0.1533	2.7800	-9.0224	0.0230	0.5864	-4.6326		
16	0.0	-8.57	0.0339	-0.0784	2.7794	-8.9016	0.0260	0.5791	-2.3145		
17	0.0	-7.78	0.0358	-0.0671	2.5338	-8.5356	0.0070	0.5684	-1.8749		
18	0.01	-6.97	0.0259	-0.0213	2.4743	-8.2934	0.0070	0.5645	-0.8208		
19	0.0	-6.14	0.0469	-0.0966	2.3973	-8.0266	0.0030	0.5458	-2.0610		
20	0.01	-5.38	0.0425	-0.0765	2.1989	-7.6289	0.0060	0.5321	-1.8000		
21	0.01	-4.60	0.0336	-0.0320	1.9742	-7.1844	0.0040	0.5115	-0.9536		
22	0.01	-3.85	0.0376	-0.0486	1.8048	-6.8441	0.0010	0.5001	-1.2936		
23	0.01	-3.00	0.0364	-0.0570	1.7100	-6.4044	-0.0010	0.4883	-1.5648		
24	0.01	-2.21	0.0200	-0.0100	1.5342	-5.9444	0.0040	0.4768	-0.5000		
25	0.01	-1.39	0.0235	-0.0069	1.4044	-5.5707	0.0	0.4612	-0.2936		
26	0.01	-0.60	0.0384	-0.0268	1.2654	-5.2112	0.0010	0.4512	-0.6969		
27	0.01	0.16	0.0107	0.0270	1.1079	-4.6886	0.0020	0.4385	2.5252		
28	0.01	0.94	-0.0017	0.0854	0.8997	-4.1842	-0.0010	0.4367	-50.2235		
29	0.01	1.69	0.0383	-0.0006	0.7987	-3.8348	-0.0030	0.4208	-0.0162		
30	0.01	2.52	-0.0146	0.1684	0.6474	-3.2691	0.0	0.4025	-11.5370		
31	0.01	3.24	0.0091	0.0353	0.3952	-2.7741	-0.0010	0.3964	3.8747		
32	0.01	4.05	0.0172	0.0589	0.3711	-2.4672	-0.0020	0.3852	3.4236		
33	0.01	4.79	0.0244	0.0478	0.1344	-1.9529	0.0	0.3745	1.9607		
34	0.01	5.61	-0.0233	0.1596	-0.0302	-1.5635	0.0020	0.3737	-6.8506		
35	0.01	6.47	-0.0261	0.2005	-0.1574	-1.1405	0.0060	0.3632	-7.6835		
36	0.02	7.24	-0.0058	0.1571	-0.3525	-0.7304	0.0030	0.3469	-27.0847		
37	0.02	8.04	-0.0175	0.2405	-0.5772	-0.3767	0.0070	0.3424	-13.7429		
38	0.02	8.83	-0.0256	0.2388	-0.7355	0.0198	0.0080	0.3346	-9.3247		
39	0.02	9.69	-0.0171	0.2019	-0.8301	0.3982	-0.0010	0.3203	-11.8094		
40	0.02	10.49	-0.0048	0.1837	-0.9509	0.7483	-0.0030	0.3043	-38.2750		
41	0.02	11.24	-0.0330	0.2802	-1.2612	1.2478	-0.0070	0.2743	-8.4409		
42	0.02	12.08	0.0098	0.2273	-1.3805	1.6928	-0.0160	0.2625	23.1918		
43	0.02	12.85	-0.0406	0.2978	-1.5472	2.0001	-0.0210	0.2545	-7.3360		
44	0.02	13.61	-0.0156	0.2528	-1.6906	2.4428	-0.0240	0.2225	-16.2077		
45	0.02	14.38	-0.0019	0.2566	-1.9303	2.8125	-0.0300	0.1951	-135.0842		
46	0.02	15.15	-0.0379	0.3040	-2.2201	3.2631	-0.0300	0.1833	-8.0227		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		107	1.10	1.7	0.0	BZMUF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.02	15.90	-0.0067	0.2493	-2.4222	3.6160	-0.0290	0.1520	-37.2209			
48	0.03	16.69	-0.0469	0.3766	-2.5784	3.8767	-0.0340	0.1497	-8.0311			
49	0.03	17.50	-0.0236	0.3890	-2.8034	4.0558	-0.0280	0.1123	-16.4647			
50	0.02	18.37	-0.0401	0.2901	-2.8122	4.2161	-0.0310	0.1373	-7.2354			
51	0.03	19.15	-0.0778	0.5189	-3.2574	4.6883	-0.0130	0.0737	-6.6699			
52	0.03	19.93	-0.0557	0.4119	-3.3947	4.8095	-0.0310	0.0849	-7.3964			
53	0.03	19.75	-0.0053	0.3574	-3.3049	4.8078	-0.0310	0.0886	-67.4378			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.07	1.10	1.7	0.0	82WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-20.04	1.5232	0.0023	0.5885	0.0015	0.3864	0.0737	0.0048	-0.0064	0.0652	-0.0874
2	0.0	-19.66	1.5352	0.0024	0.5924	0.0016	0.3859	0.0503	-0.0007	-0.0109	-0.0134	-0.2175
3	0.01	-18.88	1.5299	0.0037	0.5889	0.0024	0.3849	0.0607	0.0008	-0.0080	0.0124	-0.1314
4	0.0	-18.11	1.5007	0.0050	0.5790	0.0033	0.3858	0.0466	-0.0011	-0.0164	-0.0225	-0.3513
5	-0.01	-17.22	1.4841	0.0065	0.5711	0.0044	0.3848	0.0691	0.0076	-0.0092	0.1097	-0.1328
6	0.0	-16.45	1.4620	0.0090	0.5603	0.0062	0.3832	0.0542	0.0023	-0.0126	0.0429	-0.2332
7	-0.01	-15.61	1.4230	0.0119	0.5467	0.0083	0.3842	0.0363	-0.0017	-0.0200	-0.0476	-0.5511
8	0.0	-14.84	1.4062	0.0134	0.5408	0.0095	0.3846	0.0485	0.0003	-0.0144	0.0062	-0.2977
9	0.0	-14.00	1.3846	0.0168	0.5285	0.0121	0.3817	0.0469	-0.0020	-0.0174	-0.0432	-0.3704
10	0.0	-13.17	1.3539	0.0206	0.5197	0.0152	0.3838	0.0450	0.0013	-0.0213	0.0284	-0.4735
11	0.0	-12.37	1.3360	0.0250	0.5131	0.0187	0.3841	0.0361	0.0012	-0.0259	0.0333	-0.7166
12	0.0	-11.62	1.3142	0.0291	0.5100	0.0221	0.3880	0.0404	-0.0006	-0.0223	-0.0149	-0.5504
13	0.0	-10.84	1.3488	0.0283	0.5330	0.0210	0.3952	0.0263	-0.0016	-0.0255	-0.0599	-0.9672
14	0.0	-10.12	1.3140	0.0288	0.5267	0.0219	0.4008	0.0241	-0.0021	-0.0264	-0.0872	-1.0942
15	0.0	-9.34	1.2734	0.0282	0.5170	0.0222	0.4060	0.0136	-0.0005	-0.0303	-0.0386	-2.2256
16	0.0	-8.57	1.2491	0.0283	0.5104	0.0227	0.4086	0.0183	-0.0011	-0.0287	-0.0574	-1.5684
17	0.0	-7.78	1.1742	0.0304	0.4895	0.0259	0.4169	0.0142	-0.0006	-0.0328	-0.0423	-2.3076
18	0.01	-6.97	1.1300	0.0312	0.4736	0.0276	0.4191	0.0231	-0.0013	-0.0279	-0.0552	-1.2079
19	0.0	-6.14	1.0522	0.0337	0.4498	0.0320	0.4275	0.0254	-0.0014	-0.0273	-0.0532	-1.0723
20	0.01	-5.38	1.0009	0.0345	0.4332	0.0345	0.4328	0.0230	-0.0014	-0.0279	-0.0587	-1.2103
21	0.01	-4.60	0.9328	0.0357	0.4088	0.0383	0.4382	0.0253	-0.0012	-0.0272	-0.0475	-1.0739
22	0.01	-3.85	0.8636	0.0363	0.3867	0.0420	0.4478	0.0205	-0.0011	-0.0280	-0.0513	-1.3643
23	0.01	-3.00	0.7927	0.0358	0.3606	0.0452	0.4549	0.0292	0.0	-0.0233	0.0	-0.7969
24	0.01	-2.21	0.7327	0.0360	0.3419	0.0492	0.4666	0.0227	-0.0004	-0.0269	-0.0165	-1.1822
25	0.01	-1.39	0.6546	0.0345	0.3151	0.0528	0.4813	0.0178	-0.0008	-0.0272	-0.0464	-1.5263
26	0.01	-0.60	0.5931	0.0339	0.2903	0.0572	0.4894	0.0250	-0.0004	-0.0262	-0.0150	-1.0468
27	0.01	0.16	0.5102	0.0331	0.2615	0.0649	0.5134	0.0185	-0.0015	-0.0296	-0.0811	-1.5965
28	0.01	0.94	0.4347	0.0313	0.2272	0.0720	0.5226	0.0138	-0.0014	-0.0306	-0.1033	-2.2175
29	0.01	1.69	0.3578	0.0286	0.2062	0.0800	0.5762	0.0318	-0.0002	-0.0234	-0.0047	-0.7360
30	0.01	2.52	0.2768	0.0255	0.1772	0.0920	0.6402	0.0186	-0.0018	-0.0297	-0.0968	-1.5969
31	0.01	3.24	0.1960	0.0193	0.1433	0.0985	0.7309	0.0332	0.0001	-0.0245	-0.0023	-0.7361
32	0.01	4.05	0.1384	0.0140	0.1204	0.1013	0.8705	0.0291	-0.0009	-0.0276	-0.0309	-0.9488
33	0.01	4.74	0.0629	0.0071	0.0907	0.1133	1.4413	0.0368	0.0002	-0.0240	0.0041	-0.6505
34	0.01	5.61	0.0056	0.0008	0.0663	0.1474	11.8132	0.0297	-0.0012	-0.0299	-0.0404	-1.0069
35	0.01	6.47	-0.0642	-0.0062	0.0410	0.0970	-0.6387	0.0252	-0.0017	-0.0317	-0.0685	-1.2501
36	0.02	7.24	-0.1318	-0.0140	0.0173	0.1060	-0.1315	0.0292	-0.0012	-0.0277	-0.0411	-0.9476
37	0.02	8.04	-0.2009	-0.0222	-0.0028	0.1103	0.0140	0.0215	-0.0017	-0.0316	-0.0403	-1.4668
38	0.02	8.83	-0.2596	-0.0116	-0.0258	0.1218	0.0093	0.0220	-0.0019	-0.0316	-0.0153	-1.5759
39	0.02	9.69	-0.3054	-0.0193	-0.0468	0.1288	0.1533	0.0112	-0.0009	-0.0258	-0.0289	-0.8270
40	0.02	10.49	-0.3744	-0.0466	-0.0674	0.1243	0.1001	0.0314	-0.0008	-0.0268	-0.0263	-0.8515
41	0.02	11.24	-0.4517	-0.0549	-0.0990	0.1215	0.2192	0.0261	-0.0021	-0.0297	-0.0805	-1.1380
42	0.02	12.08	-0.5260	-0.0617	-0.1235	0.1173	0.2349	0.0330	-0.0011	-0.0281	-0.0318	-0.8516
43	0.02	12.85	-0.5914	-0.0668	-0.1477	0.1130	0.2498	0.0323	-0.0011	-0.0252	-0.0349	-0.7782
44	0.02	13.61	-0.6654	-0.0713	-0.1711	0.1072	0.2571	0.0397	0.0005	-0.0207	0.0113	-0.5207
45	0.02	14.38	-0.7416	-0.0756	-0.1979	0.1020	0.2668	0.0402	0.0001	-0.0221	0.0019	-0.5499
46	0.02	15.15	-0.8105	-0.0774	-0.2269	0.0955	0.2799	0.0398	0.0001	-0.0207	0.0019	-0.5211

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.07	1.10	1.7		0.0	B2WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	15.90	-0.8516	-0.0791	-0.2437	0.0929	0.2862	0.0541	0.0015	-0.0133	0.0277	-0.2453	
48	0.03	16.69	-0.9128	-0.0803	-0.2624	0.0880	0.2875	0.0457	0.0004	-0.0194	0.0082	-0.4239	
49	0.03	17.50	-0.9460	-0.0821	-0.2742	0.0868	0.2899	0.0657	0.0033	-0.0100	0.0503	-0.1523	
50	0.02	18.37	-1.0224	-0.0813	-0.3032	0.0795	0.2966	0.0442	0.0012	-0.0183	0.0272	-0.4134	
51	0.03	19.15	-1.0367	-0.0827	-0.3145	0.0798	0.3034	0.0480	0.0015	-0.0186	0.0313	-0.3876	
52	0.03	19.93	-1.0887	-0.0820	-0.3355	0.0753	0.3081	0.0504	0.0016	-0.0129	0.0313	-0.2561	
53	0.03	19.75	-1.0790	-0.0829	-0.3348	0.0768	0.3103	0.0622	0.0035	-0.0111	0.0567	-0.1780	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	107	1.10	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-20.04	1.6330	0.0028	0.5834	0.0017	0.3572	0.0051	-0.0047	-0.0011	-0.9270	-0.2158
2	0.0	-19.66	1.6330	0.0026	0.5834	0.0016	0.3572	0.0065	-0.0060	-0.0014	-0.9237	-0.2206
3	0.01	-18.88	1.6316	0.0035	0.5799	0.0022	0.3554	0.0059	-0.0055	-0.0012	-0.9285	-0.2092
4	0.0	-18.11	1.6057	0.0043	0.5690	0.0027	0.3543	0.0042	-0.0042	-0.0010	-0.9339	-0.2223
5	-0.01	-17.22	1.5924	0.0077	0.5663	0.0049	0.3556	0.0053	-0.0049	-0.0011	-0.9204	-0.2140
6	0.0	-16.45	1.5662	0.0098	0.5567	0.0063	0.3554	0.0059	-0.0054	-0.0013	-0.9158	-0.2261
7	-0.01	-15.61	1.5492	0.0113	0.5441	0.0073	0.3512	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
8	0.0	-14.84	1.5222	0.0134	0.5372	0.0088	0.3529	0.0050	-0.0046	-0.0011	-0.9156	-0.2268
9	0.0	-14.00	1.4972	0.0163	0.5241	0.0109	0.3501	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
10	0.0	-13.17	1.4797	0.0190	0.5127	0.0128	0.3465	0.0029	-0.0027	-0.0006	-0.9316	-0.2185
11	0.0	-12.37	1.4520	0.0233	0.5036	0.0160	0.3469	0.0029	-0.0027	-0.0006	-0.9316	-0.2185
12	0.0	-11.62	1.4449	0.0283	0.4992	0.0196	0.3455	0.0045	-0.0042	-0.0010	-0.9339	-0.2223
13	0.0	-10.84	1.4422	0.0315	0.4937	0.0218	0.3492	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
14	0.0	-10.12	1.4041	0.0278	0.5203	0.0190	0.3554	0.0036	-0.0033	-0.0008	-0.9172	-0.2223
15	0.0	-9.34	1.4168	0.0289	0.5059	0.0204	0.3571	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
16	0.0	-8.57	1.3920	0.0279	0.4578	0.0201	0.3577	0.0033	-0.0031	-0.0007	-0.9324	-0.2122
17	0.0	-7.78	1.3564	0.0276	0.4859	0.0204	0.3582	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
18	0.01	-6.97	1.3091	0.0287	0.4671	0.0219	0.3568	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
19	0.0	-6.14	1.2761	0.0302	0.4507	0.0237	0.3532	-0.0010	0.0010	0.0002	-0.9156	-0.1668
20	0.01	-5.38	1.2140	0.0315	0.4290	0.0260	0.3534	-0.0001	0.0001	-0.0000	-0.7505	-0.3332
21	0.01	-4.60	1.1723	0.0315	0.4040	0.0269	0.3447	0.0005	-0.0005	-0.0001	-1.0507	-0.2668
22	0.01	-3.85	1.1094	0.0324	0.3843	0.0292	0.3464	-0.0003	0.0003	0.0000	-1.0006	-0.0001
23	0.01	-3.00	1.0427	0.0328	0.3551	0.0315	0.3406	-0.0014	0.0014	0.0002	-0.9649	-0.1668
24	0.01	-2.21	0.9769	0.0334	0.3300	0.0342	0.3378	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
25	0.01	-1.39	0.9133	0.0330	0.3055	0.0361	0.3345	-0.0002	0.0002	0.0000	-0.7505	-0.1668
26	0.01	-0.60	0.8513	0.0326	0.2803	0.0383	0.3292	-0.0002	0.0002	0.0000	-1.1257	-0.1668
27	0.01	0.16	0.7791	0.0319	0.2491	0.0410	0.3197	0.0010	-0.0010	-0.0002	-0.9756	-0.1668
28	0.01	0.94	0.7041	0.0303	0.2193	0.0430	0.3115	0.0005	-0.0005	-0.0001	-1.0507	-0.2668
29	0.01	1.69	0.6352	0.0297	0.1937	0.0467	0.3049	-0.0001	0.0001	-0.0000	-0.7505	-0.3332
30	0.01	2.52	0.5542	0.0276	0.1615	0.0499	0.2913	0.0015	-0.0014	-0.0003	-0.9006	-0.2001
31	0.01	3.24	0.4748	0.0242	0.1324	0.0509	0.2788	-0.0003	0.0003	0.0000	-1.0006	-0.0001
32	0.01	4.05	0.4113	0.0203	0.1073	0.0495	0.2610	0.0005	-0.0005	-0.0001	-1.0507	-0.2668
33	0.01	4.79	0.3529	0.0143	0.0765	0.0429	0.2298	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
34	0.01	5.61	0.2698	0.0083	0.0509	0.0306	0.1886	0.0031	-0.0029	-0.0007	-0.9199	-0.2152
35	0.01	6.47	0.1963	0.0032	0.0231	0.0161	0.1176	0.0036	-0.0033	-0.0008	-0.9172	-0.2223
36	0.02	7.24	0.1432	-0.0004	0.0044	-0.0026	0.0306	0.0035	-0.0032	-0.0007	-0.9220	-0.2096
37	0.02	8.04	0.0889	-0.0068	-0.0167	-0.0091	-0.2415	0.0044	-0.0041	-0.0009	-0.9210	-0.2122
38	0.02	8.83	0.0228	-0.0126	-0.0386	-0.0550	-1.6931	0.0053	-0.0049	-0.0011	-0.9204	-0.2140
39	0.02	9.69	-0.0431	-0.0194	-0.0509	0.4492	1.3657	0.0066	-0.0062	-0.0014	-0.9324	-0.2122
40	0.02	10.49	-0.0999	-0.0239	-0.0780	0.2391	0.7811	0.0084	-0.0077	-0.0018	-0.9202	-0.2144
41	0.02	11.24	-0.1651	-0.0305	-0.1041	0.1647	0.5624	0.0088	-0.0082	-0.0019	-0.9296	-0.2122
42	0.02	12.08	-0.2403	-0.0343	-0.1256	0.1428	0.5226	0.0122	-0.0113	-0.0026	-0.9227	-0.2160
43	0.02	12.85	-0.3119	-0.0386	-0.1474	0.1238	0.4728	0.0100	-0.0093	-0.0022	-0.9306	-0.2168
44	0.02	13.61	-0.3889	-0.0408	-0.1741	0.1048	0.4477	0.0106	-0.0098	-0.0024	-0.9204	-0.2234
45	0.02	14.38	-0.4608	-0.0430	-0.2022	0.0932	0.4388	0.0105	-0.0097	-0.0023	-0.9220	-0.2192
46	0.02	15.15	-0.5298	-0.0433	-0.2317	0.0818	0.4373	0.0119	-0.0110	-0.0026	-0.9270	-0.2214

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		107		1.10 1.7		0.0	B2WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.02	15.90	-0.5815	-0.0439	-0.2555	0.0755	0.4394	0.0119	-0.0110	-0.0025	-0.9270	-0.2130	
48	0.03	16.69	-0.6328	-0.0433	-0.2762	0.0683	0.4365	0.0121	-0.0112	-0.0027	-0.9241	-0.2205	
49	0.03	17.50	-0.7149	-0.0417	-0.3030	0.0583	0.4239	0.0193	-0.0179	-0.0042	-0.9254	-0.2160	
50	0.02	18.37	-0.7400	-0.0432	-0.3162	0.0583	0.4273	0.0064	-0.0059	-0.0014	-0.9264	-0.2137	
51	0.03	19.15	-0.7916	-0.0409	-0.3422	0.0517	0.4323	0.0160	-0.0167	-0.0039	-0.9256	-0.2168	
52	0.03	19.93	-0.8266	-0.0414	-0.3546	0.0501	0.4290	0.0083	-0.0077	-0.0018	-0.9223	-0.2210	
53	0.03	19.75	-0.8423	-0.0407	-0.3605	0.0483	0.4280	0.0117	-0.0108	-0.0025	-0.9237	-0.2138	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	OEL4	TRANSITION	
6		108		0.85		1.7	0.0	BZU0F13	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP					
1	0.0	19.73	-0.0363	0.1258	-1.9567	0.4557	-0.0430	-0.0905	-3.4661					
2	0.0	19.37	-0.0129	0.1020	-1.9549	0.2782	-0.0420	-0.0040	-7.9116					
3	0.0	18.66	0.0201	-0.0151	-1.8140	0.1699	-0.0570	-0.0757	-0.7532					
4	0.01	17.87	0.0093	0.1130	-1.6817	-0.0633	-0.0470	-0.0490	12.1484					
5	0.0	17.01	0.0235	-0.0009	-1.5682	-0.3992	-0.0700	-0.0079	-0.0383					
6	0.0	16.24	0.0052	0.0607	-1.3433	-0.6760	-0.0580	0.0211	11.6769					
7	0.0	15.43	-0.0049	0.0719	-1.2069	-0.9161	-0.0590	0.0461	-7.2586					
8	0.0	14.08	-0.0027	0.0288	-1.0029	-1.3126	-0.0510	0.0817	-10.6573					
9	0.0	13.88	-0.0249	0.0818	-0.8340	-1.5911	-0.0430	0.1126	-3.2875					
10	0.0	13.11	-0.0006	0.0308	-0.6576	-1.8150	-0.0440	0.1319	-51.4000					
11	0.0	12.32	-0.0105	0.0547	-0.5546	-2.1421	-0.0320	0.1528	-5.2095					
12	0.0	11.57	-0.0125	0.0245	-0.3706	-2.4898	-0.0290	0.1850	-1.9600					
13	0.0	10.76	-0.0061	0.0045	-0.1903	-2.9252	-0.0300	0.2155	-0.7443					
14	0.0	9.96	-0.0039	-0.0475	0.0073	-3.3608	-0.0260	0.2440	12.1897					
15	0.0	9.13	0.0112	-0.0647	0.1810	-3.8519	-0.0180	0.2861	-5.7750					
16	0.0	8.34	0.0051	-0.0841	0.3346	-4.2309	-0.0170	0.3131	-16.4980					
17	-0.01	7.51	0.0049	-0.1078	0.4955	-4.6312	-0.0130	0.3544	-22.0122					
18	-0.01	6.75	0.0123	-0.1212	0.6105	-4.8702	-0.0080	0.3826	-9.8553					
19	-0.01	5.92	0.0301	-0.1751	0.6725	-5.0520	-0.0160	0.4077	-5.8186					
20	-0.01	5.12	0.0262	-0.1797	0.7996	-5.2249	-0.0110	0.4365	-6.8580					
21	-0.01	4.29	0.0320	-0.2128	0.9058	-5.4006	0.0	0.4611	-6.6500					
22	-0.01	3.55	0.0425	-0.2245	0.9878	-5.5803	0.0100	0.4880	-5.2823					
23	-0.01	2.82	0.0377	-0.2377	1.0626	-5.6730	0.0120	0.5060	-6.3072					
24	-0.01	2.01	0.0415	-0.2491	1.1531	-5.7589	0.0070	0.5240	-6.0024					
25	-0.01	1.25	0.0320	-0.1958	1.2415	-5.8836	0.0060	0.5488	-6.1187					
26	-0.01	0.49	0.0383	-0.2256	1.3192	-6.0384	0.0060	0.5693	-5.8909					
27	-0.01	-0.24	0.0416	-0.2212	1.3888	-6.1818	0.0070	0.5850	-5.3183					
28	-0.01	-1.08	0.0370	-0.2278	1.5200	-6.3884	0.0040	0.5996	-6.1568					
29	-0.01	-1.85	0.0583	-0.2776	1.5722	-6.4935	0.0090	0.6165	-4.7619					
30	-0.01	-2.66	0.0272	-0.2081	1.6737	-6.4736	0.0120	0.6326	-7.6500					
31	-0.01	-3.46	0.0431	-0.2643	1.6413	-6.3143	0.0320	0.6429	-6.1332					
32	-0.02	-4.24	0.1476	-0.6306	1.5900	-5.7715	0.0730	0.6425	-4.2726					
33	-0.01	-5.02	0.1244	-0.5161	1.6219	-5.6302	0.0560	0.6462	-4.1492					
34	-0.01	-5.78	0.0534	-0.2877	1.6172	-5.4186	0.0300	0.6448	-5.3888					
35	-0.01	-6.57	0.0366	-0.2032	1.6856	-5.4334	0.0180	0.6468	-5.5530					
36	-0.01	-7.40	0.0491	-0.2217	1.7227	-5.4004	0.0200	0.6442	-4.5161					
37	-0.01	-8.17	0.0240	-0.1816	1.7711	-5.4581	0.0180	0.6459	-7.5667					
38	-0.01	-8.97	0.0480	-0.2947	1.8406	-5.5004	0.0180	0.6406	-6.1772					
39	-0.01	-9.73	0.0165	-0.1511	1.9635	-5.6686	0.0140	0.6370	-4.1576					
40	-0.01	-10.53	0.0302	-0.1793	2.1061	-5.7842	0.0080	0.6320	-5.9364					
41	0.0	-11.27	0.0052	-0.0733	2.1888	-5.9250	0.0020	0.6441	-14.0923					
42	0.0	-12.05	0.0276	-0.1146	2.3390	-6.0862	0.0010	0.6451	-4.3348					
43	-0.01	-12.83	0.0102	-0.1233	2.4131	-6.2189	0.0030	0.6503	-12.0863					
44	-0.01	-13.63	-0.0101	-0.0619	2.5451	-6.3667	0.0030	0.6620	6.1248					
45	0.0	-14.45	-0.0012	-0.0483	2.6444	-6.4440	-0.0050	0.6699	40.2667					
46	0.0	-15.28	-0.0032	-0.0495	2.7764	-6.6366	-0.0170	0.6766	15.4750					

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		108	0.85	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA'	BETA	CN	CM	CY	CLN	CLL	CAF	XCP			
47	-0.01	-16.11	0.0029	-0.0890	2.8941	-6.7744	-0.0060	0.6814	-30.7103			
48	0.0	-16.90	0.0284	-0.1017	3.0450	-6.9167	0.0040	0.6863	-3.5831			
49	0.0	-17.78	0.0022	-0.0341	3.1719	-7.0623	-0.0040	0.6873	-15.4909			
50	0.0	-18.63	0.0155	-0.0937	3.2563	-7.1384	0.0	0.6826	-6.0452			
51	0.0	-19.48	0.0425	-0.0915	3.4739	-7.3572	0.0010	0.6754	-2.1529			
52	0.0	-20.25	0.0432	-0.1225	3.5759	-7.4940	0.0080	0.6770	-2.8552			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	108	0.85	1.7	0.0	82	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	19.73	-0.3109	-0.0670	-0.1075	0.2155	0.3458	0.0759	0.0	-0.0086	0.0	-0.1134
2	0.0	19.37	-0.2982	-0.0650	-0.1034	0.2181	0.3466	0.0085	0.0010	-0.0009	0.1148	-0.1021
3	0.0	18.66	-0.2775	-0.0612	-0.0540	0.2206	0.3386	0.0068	0.0011	-0.0006	0.1545	-0.0933
4	0.01	17.87	-0.2206	-0.0534	-0.0838	0.2420	0.3799	0.0066	0.0020	-0.0005	0.2956	-0.0759
5	0.0	17.01	-0.1831	-0.0440	-0.0661	0.2403	0.3611	-0.0053	0.0008	0.0007	-0.1558	-0.1385
6	0.0	16.24	-0.1230	-0.0333	-0.0493	0.2705	0.4007	-0.0053	0.0013	0.0007	-0.2407	-0.1385
7	0.0	15.43	-0.0545	-0.0224	-0.0295	0.4103	0.5406	-0.0020	0.0020	0.0004	-0.9756	-0.2168
8	0.0	14.68	0.0054	-0.0128	-0.0127	-2.3626	-2.3520	-0.0004	0.0026	0.0004	-6.5666	-0.9168
9	0.0	13.88	0.0653	-0.0038	0.0011	-0.0586	0.0162	-0.0122	0.0014	0.0015	-0.1169	-0.1258
10	0.0	13.11	0.1158	0.0035	0.0166	0.0305	0.1431	-0.0175	0.0020	0.0023	-0.1115	-0.1296
11	0.0	12.32	0.1922	0.0131	0.0369	0.0680	0.1921	-0.0243	0.0014	0.0029	-0.0587	-0.1195
12	0.0	11.57	0.2546	0.0202	0.0581	0.0793	0.2283	-0.0243	0.0019	0.0030	-0.0772	-0.1236
13	0.0	10.76	0.3272	0.0282	0.0793	0.0861	0.2424	-0.0278	0.0016	0.0033	-0.0567	-0.1200
14	0.0	9.96	0.3889	0.0359	0.1056	0.0923	0.2715	-0.0348	0.0017	0.0042	-0.0496	-0.1208
15	0.0	9.13	0.4734	0.0429	0.1310	0.0506	0.2768	-0.0382	0.0008	0.0045	-0.0216	-0.1170
16	0.0	8.34	0.5539	0.0480	0.1512	0.0866	0.2729	-0.0349	0.0018	0.0042	-0.0516	-0.1195
17	-0.01	7.51	0.6169	0.0519	0.1756	0.0841	0.2846	-0.0417	0.0004	0.0048	-0.0090	-0.1152
18	-0.01	6.75	0.6592	0.0547	0.1866	0.0830	0.2831	-0.0452	0.0	0.0051	0.0	-0.1137
19	-0.01	5.92	0.7074	0.0568	0.1931	0.0804	0.2730	-0.0366	0.0008	0.0042	-0.0205	-0.1149
20	-0.01	5.12	0.7405	0.0583	0.2015	0.0788	0.2727	-0.0349	0.0009	0.0041	-0.0258	-0.1166
21	-0.01	4.29	0.8028	0.0603	0.2184	0.0751	0.2720	-0.0295	-0.0002	0.0034	0.0076	-0.1142
22	-0.01	3.55	0.8400	0.0601	0.2292	0.0716	0.2728	-0.0346	-0.0011	0.0039	0.0325	-0.1119
23	-0.01	2.82	0.8674	0.0577	0.2367	0.0665	0.2729	-0.0243	0.0	0.0028	0.0	-0.1153
24	-0.01	2.01	0.8815	0.0532	0.2400	0.0604	0.2723	-0.0243	0.0005	0.0028	-0.0216	-0.1153
25	-0.01	1.25	0.9138	0.0475	0.2465	0.0519	0.2697	-0.0345	-0.0010	0.0038	0.0283	-0.1103
26	-0.01	0.49	0.9495	0.0443	0.2540	0.0467	0.2727	-0.0260	-0.0001	0.0029	0.0029	-0.1129
27	-0.01	-0.24	0.9958	0.0423	0.2662	0.0425	0.2673	-0.0292	-0.0016	0.0032	0.0540	-0.1086
28	-0.01	-1.08	1.0188	0.0393	0.2770	0.0385	0.2719	-0.0292	-0.0013	0.0032	0.0437	-0.1086
29	-0.01	-1.85	1.0594	0.0374	0.2824	0.0353	0.2665	-0.0226	0.0005	0.0027	-0.0232	-0.1181
30	-0.01	-2.66	1.0596	0.0356	0.2860	0.0336	0.2699	-0.0346	-0.0005	0.0039	0.0152	-0.1119
31	-0.01	-3.46	1.0497	0.0334	0.2860	0.0337	0.2725	-0.0345	-0.0011	0.0038	0.0305	-0.1103
32	-0.02	-4.28	1.0495	0.0348	0.2861	0.0332	0.2726	-0.0328	0.0013	-0.0036	0.0389	-0.1089
33	-0.01	-5.02	0.9939	0.0349	0.2604	0.0351	0.2680	0.0086	0.0007	-0.0009	0.0785	-0.1086
34	-0.01	-5.78	0.9274	0.0341	0.2495	0.0368	0.2690	-0.0189	-0.0007	0.0020	0.0357	-0.1059
35	-0.01	-6.57	0.9404	0.0343	0.2487	0.0365	0.2643	-0.0190	-0.0004	0.0022	0.0197	-0.1142
36	-0.01	-7.40	0.9403	0.0342	0.2511	0.0364	0.2670	-0.0241	-0.0009	0.0027	0.0374	-0.1108
37	-0.01	-8.17	0.9624	0.0342	0.2580	0.0356	0.2680	-0.0190	-0.0008	0.0021	0.0395	-0.1089
38	-0.01	-8.97	0.9866	0.0333	0.2662	0.0338	0.2698	-0.0103	-0.0007	0.0011	0.0656	-0.1037
39	-0.01	-9.73	0.9959	0.0333	0.2670	0.0335	0.2681	-0.0416	-0.0003	0.0047	0.0072	-0.1139
40	-0.01	-10.53	1.0223	0.0327	0.2724	0.0320	0.2665	-0.0295	-0.0002	0.0034	0.0051	-0.1142
41	0.0	-11.27	1.0318	0.0318	0.2816	0.0309	0.2729	-0.0417	0.0	0.0047	0.0	-0.1128
42	0.0	-12.05	1.0504	0.0312	0.2866	0.0297	0.2728	-0.0347	0.0004	0.0039	-0.0108	-0.1135
43	-0.01	-12.83	1.0763	0.0297	0.2955	0.0276	0.2746	-0.0417	0.0002	0.0047	-0.0036	-0.1128
44	-0.01	-13.63	1.0969	0.0291	0.3010	0.0265	0.2744	-0.0591	0.0002	0.0067	-0.0025	-0.1135
45	0.0	-14.45	1.1276	0.0278	0.3041	0.0246	0.2697	-0.0348	0.0015	0.0041	-0.0431	-0.1179
46	0.0	-15.28	1.1421	0.0269	0.3124	0.0239	0.2736	-0.0194	0.0026	0.0025	-0.1315	-0.1307

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		108		0.85		1.7	0.0	82NOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	-0.01	-16.11	1.1810	0.0248	0.3222	0.0210	0.2728	-0.0313	0.0018	0.0038	-0.0575	-0.1205		
48	0.0	-16.90	1.2004	0.0233	0.3301	0.0194	0.2750	-0.0538	0.0032	0.0065	-0.0586	-0.1203		
49	0.0	-17.78	1.2245	0.0219	0.3376	0.0178	0.2757	-0.0524	0.0059	0.0066	-0.1117	-0.1267		
50	0.0	-18.63	1.2362	0.0206	0.3418	0.0167	0.2765	-0.0716	0.0076	0.0090	-0.1059	-0.1263		
51	0.0	-19.48	1.2551	0.0187	0.3514	0.0149	0.2800	-0.0697	0.0065	0.0087	-0.0937	-0.1245		
52	0.0	-20.25	1.2990	0.0167	0.3589	0.0128	0.2763	-0.0825	0.0113	0.0107	-0.1364	-0.1298		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RAIU-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	10.8	0.85	1.7	0.0	B2M0F13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	LB3	XLPF3	YC PF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	19.73	-0.3123	-0.0555	-0.0636	0.1777	0.2038	0.0044	-0.0041	-0.0009	-0.9210	-0.2122
2	0.0	19.37	-0.3036	-0.0549	-0.0635	0.1808	0.2106	0.0047	-0.0043	-0.0010	-0.9101	-0.2200
3	0.0	18.66	-0.2745	-0.0448	-0.0521	0.1778	0.1896	0.0021	-0.0019	-0.0005	-0.8934	-0.2362
4	0.01	17.87	-0.2238	-0.0414	-0.0411	0.1848	0.1835	0.0051	-0.0047	-0.0011	-0.9270	-0.2158
5	0.0	17.01	-0.1521	-0.0313	-0.0206	0.2055	0.1352	0.0039	-0.0036	-0.0008	-0.9237	-0.2052
6	0.0	16.24	-0.1117	-0.0243	-0.0060	0.2179	0.0536	0.0036	-0.0034	-0.0008	-0.9381	-0.2223
7	0.0	15.43	-0.0608	-0.0152	0.0138	0.2506	-0.2276	0.0063	-0.0058	-0.0014	-0.9172	-0.2223
8	0.0	14.68	0.0047	-0.0069	0.0283	-1.4690	6.0141	0.0055	-0.0050	-0.0012	-0.9142	-0.2122
9	0.0	13.88	0.0347	-0.0001	0.0460	-0.0022	1.3246	0.0050	-0.0047	-0.0010	-0.9306	-0.2068
10	0.0	13.11	0.1005	0.0093	0.0686	0.0927	0.6828	0.0051	-0.0047	-0.0011	-0.9270	-0.2158
11	0.0	12.32	0.1588	0.0152	0.0875	0.0955	0.5538	0.0039	-0.0036	-0.0008	-0.9237	-0.2052
12	0.0	11.57	0.2074	0.0212	0.1101	0.1025	0.5310	0.0029	-0.0026	-0.0006	-0.9057	-0.2185
13	0.0	10.76	0.2797	0.0291	0.1383	0.1042	0.4946	0.0024	-0.0022	-0.0005	-0.9068	-0.2085
14	0.0	9.96	0.3527	0.0357	0.1636	0.1013	0.4640	0.0003	-0.0003	-0.0001	-1.0006	-0.3335
15	0.0	9.13	0.4268	0.0410	0.1876	0.0961	0.4394	-0.0004	0.0004	0.0001	-0.9381	-0.1668
16	0.0	8.34	0.4997	0.0441	0.2122	0.0882	0.4247	-0.0019	0.0018	0.0004	-0.9480	-0.1931
17	-0.01	7.51	0.5548	0.0475	0.2340	0.0857	0.4218	-0.0022	0.0021	0.0005	-0.9551	-0.2122
18	-0.01	6.75	0.5827	0.0489	0.2464	0.0839	0.4228	-0.0034	0.0032	0.0007	-0.9270	-0.1962
19	-0.01	5.92	0.6250	0.0506	0.2566	0.0810	0.4105	-0.0028	0.0026	0.0006	-0.9113	-0.2025
20	-0.01	5.12	0.6636	0.0511	0.2636	0.0771	0.3973	-0.0048	0.0044	0.0010	-0.9224	-0.2085
21	-0.01	4.29	0.6783	0.0502	0.2666	0.0741	0.3931	-0.0038	0.0035	0.0007	-0.9282	-0.1931
22	-0.01	3.55	0.7016	0.0485	0.2722	0.0691	0.3880	-0.0046	0.0042	0.0010	-0.9136	-0.2103
23	-0.01	2.82	0.7144	0.0438	0.2763	0.0613	0.3867	-0.0053	0.0049	0.0010	-0.9204	-0.1951
24	-0.01	2.01	0.7455	0.0364	0.2837	0.0488	0.3806	-0.0057	0.0053	0.0011	-0.9216	-0.1931
25	-0.01	1.25	0.7695	0.0333	0.2934	0.0432	0.3813	-0.0046	0.0042	0.0010	-0.9136	-0.2103
26	-0.01	0.49	0.8003	0.0315	0.3072	0.0393	0.3838	-0.0053	0.0049	0.0010	-0.9204	-0.1951
27	-0.01	-0.24	0.8301	0.0294	0.3145	0.0355	0.3789	-0.0053	0.0049	0.0010	-0.9204	-0.1951
28	-0.01	-1.08	0.8522	0.0273	0.3285	0.0320	0.3855	-0.0041	0.0038	0.0006	-0.9152	-0.2034
29	-0.01	-1.85	0.8753	0.0261	0.3314	0.0298	0.3786	-0.0057	0.0052	0.0012	-0.9085	-0.2106
30	-0.01	-2.66	0.8634	0.0255	0.3326	0.0296	0.3852	-0.0038	0.0035	0.0007	-0.9282	-0.1931
31	-0.01	-3.46	0.8324	0.0260	0.3166	0.0312	0.3806	-0.0025	0.0023	0.0006	-0.9006	-0.2268
32	-0.02	-4.28	0.8902	0.0273	0.2697	0.0395	0.3708	-0.0052	0.0048	0.0011	-0.9237	-0.2052
33	-0.01	-5.02	0.7071	0.0273	0.2718	0.0387	0.3344	-0.0033	0.0030	0.0007	-0.9097	-0.2122
34	-0.01	-5.78	0.6959	0.0270	0.2772	0.0387	0.3983	-0.0038	0.0035	0.0007	-0.9282	-0.1931
35	-0.01	-6.57	0.7197	0.0271	0.2802	0.0377	0.3874	-0.0040	0.0036	0.0009	-0.9006	-0.2168
36	-0.01	-7.40	0.7187	0.0282	0.2828	0.0393	0.3435	-0.0027	0.0025	0.0005	-0.9172	-0.1853
37	-0.01	-8.17	0.7470	0.0282	0.2885	0.0378	0.3863	-0.0016	0.0014	0.0004	-0.8912	-0.2293
38	-0.01	-8.97	0.7618	0.0278	0.2926	0.0365	0.3840	-0.0028	0.0026	0.0006	-0.9113	-0.2025
39	-0.01	-9.73	0.7815	0.0267	0.3046	0.0341	0.3898	-0.0008	0.0008	0.0001	-0.9381	-0.1668
40	-0.01	-10.53	0.8044	0.0257	0.3116	0.0319	0.3873	-0.0016	0.0014	0.0004	-0.8912	-0.2293
41	0.0	-11.27	0.8422	0.0246	0.3204	0.0242	0.3805	0.0003	-0.0003	-0.0001	-1.0006	-0.3335
42	0.0	-12.05	0.8649	0.0237	0.3303	0.0273	0.3819	-0.0005	0.0005	0.0001	-0.9006	-0.2668
43	-0.01	-12.83	0.8786	0.0225	0.3403	0.0256	0.3873	-0.0004	0.0005	0.0001	-1.1257	-0.1668
44	-0.01	-13.63	0.9122	0.0212	0.3489	0.0233	0.3825	-0.0013	0.0012	0.0003	-0.9237	-0.2052
45	0.0	-14.45	0.9336	0.0197	0.3583	0.0211	0.3838	-0.0001	0.0002	-0.0000	-1.5009	0.3332
46	0.0	-15.28	0.9619	0.0174	0.3672	0.0181	0.3817	0.0003	-0.0003	-0.0001	-1.0006	-0.3335

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		108	0.85	1.7		0.0	B2WDF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	LH4	CB4	XCPF4	YCPF4	
47	-0.01	-16.11	0.9717	0.0157	0.3767	0.0161	0.3877	0.0006	-0.0005	-0.0001	-0.8755	-0.1668	
48	0.0	-16.90	0.9872	0.0143	0.3785	0.0145	0.3838	0.0009	-0.0008	-0.0002	-0.9172	-0.2223	
49	0.0	-17.78	1.0197	0.0116	0.3474	0.0114	0.3897	0.0009	-0.0008	-0.0002	-0.9172	-0.2223	
50	0.0	-18.63	1.0436	0.0107	0.3596	0.0102	0.3829	0.0	0.0	0.0	0.0	0.0	
51	0.0	-19.48	1.0550	0.0084	0.4098	0.0080	0.3884	0.0004	-0.0004	-0.0001	-0.9381	-0.1668	
52	0.0	-20.25	1.0835	0.0069	0.4157	0.0064	0.3836	0.0004	-0.0004	-0.0001	-0.9381	-0.1668	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.09	0.92	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP		
1	0.0	19.68	0.0040	-0.0136	-2.1215	0.6424	-0.0570	-0.0623	-3.4000		
2	0.0	19.38	-0.0462	0.1677	-2.1845	6.6140	-0.0330	-0.0626	-3.6294		
3	0.0	18.62	0.0304	-0.0805	-1.9489	0.3828	-0.0620	-0.0440	-2.6500		
4	0.0	17.81	-0.0039	0.0615	-1.8385	0.1267	-0.0480	-0.0134	-15.7590		
5	0.01	16.93	0.0218	0.0615	-1.6332	-0.2792	-0.0540	0.0263	2.8202		
6	0.0	16.17	-0.0044	0.0712	-1.4461	-0.5461	-0.0390	0.0575	-16.1727		
7	0.0	15.38	0.0122	0.0299	-1.2141	-0.5479	-0.0520	0.0997	2.4525		
8	0.0	14.64	-0.0035	0.0669	-1.0917	-1.1303	-0.0350	0.1164	-19.1143		
9	0.0	13.82	-0.0043	0.0360	-0.9163	-1.4808	-0.0410	0.1493	-8.8419		
10	0.0	13.06	-0.0026	0.0016	-0.7299	-1.7878	-0.0370	0.1820	-0.6308		
11	0.0	12.33	-0.0012	-0.0343	-0.5705	-2.0259	-0.0290	0.2044	28.6000		
12	0.0	11.52	0.0064	-0.0710	-0.4375	-2.4250	-0.0190	0.2431	-11.0875		
13	0.0	10.76	-0.0010	-0.0626	-0.2403	-2.7412	-0.0160	0.2803	62.5999		
14	0.0	9.93	-0.0101	-0.0319	-0.0504	-3.1300	-0.0130	0.3249	3.1545		
15	0.0	9.13	0.0044	-0.0582	0.0513	-3.4664	-0.0140	0.3612	-13.2182		
16	-0.01	8.31	0.0119	-0.1056	0.2238	-3.8638	-0.0140	0.3911	-8.8790		
17	-0.01	7.52	0.0243	-0.1800	0.4195	-4.3269	-0.0060	0.4323	-7.4082		
18	-0.01	6.72	-0.0043	-0.1570	0.6156	-4.7454	0.0030	0.4688	36.5070		
19	-0.01	5.93	0.0362	-0.2526	0.7218	-5.0750	-0.0040	0.4996	-6.9801		
20	-0.01	5.07	0.0300	-0.2260	0.8355	-5.3991	0.0010	0.5293	-7.5333		
21	-0.01	4.29	0.0355	-0.2447	0.9400	-5.7144	0.0070	0.5529	-7.0336		
22	-0.01	3.49	0.0507	-0.3009	1.0748	-5.9711	0.0040	0.5784	-5.9365		
23	-0.01	2.78	0.0516	-0.2972	1.1684	-6.2052	0.0120	0.5956	-5.7605		
24	-0.01	1.96	0.0482	-0.3084	1.2835	-6.4303	0.0210	0.6144	-6.4000		
25	-0.01	1.22	0.0440	-0.2856	1.3858	-6.5885	0.0170	0.6226	-6.4909		
26	-0.01	0.48	0.0375	-0.2615	1.4688	-6.7537	0.0150	0.6390	-6.9733		
27	-0.01	-0.29	0.0297	-0.2585	1.5609	-6.9446	0.0140	0.6612	-8.7064		
28	-0.01	-1.10	0.0505	-0.2967	1.6700	-7.1493	0.0070	0.6780	-5.8752		
29	-0.01	-1.90	0.0322	-0.2690	1.8118	-7.5098	0.0060	0.7113	-8.3565		
30	-0.01	-2.68	0.0358	-0.2761	1.9080	-7.7556	0.0100	0.7306	-7.7128		
31	-0.01	-3.54	0.0329	-0.2720	1.9846	-7.8888	0.0190	0.7490	-8.2693		
32	-0.01	-4.32	0.0390	-0.2826	2.0155	-7.9281	0.0300	0.7653	-7.2462		
33	-0.01	-5.10	0.0482	-0.3034	2.0388	-7.9547	0.0450	0.7668	-6.2963		
34	-0.02	-5.84	0.1595	-0.7362	1.9412	-7.0782	0.1140	0.7606	-4.6163		
35	-0.01	-6.64	0.0944	-0.4421	1.8767	-6.5308	0.0590	0.7497	-5.2136		
36	-0.01	-7.41	0.0519	-0.3376	1.9060	-6.2831	0.0370	0.7418	-6.5060		
37	-0.01	-8.21	0.0056	-0.1058	1.9658	-6.2357	0.0120	0.7369	-18.9000		
38	-0.01	-8.98	0.0080	-0.1202	2.0082	-6.1851	0.0120	0.7252	-15.0250		
39	-0.01	-9.78	-0.0070	-0.0772	2.1145	-6.3399	0.0020	0.7191	11.0286		
40	-0.01	-10.54	-0.0708	-0.0409	2.2520	-6.4754	0.0	0.7107	1.9674		
41	-0.01	-11.33	-0.0033	-0.1144	2.3277	-6.5663	0.0050	0.7001	34.6606		
42	0.0	-12.06	-0.0192	-0.0731	2.4137	-6.6047	0.0	0.7032	3.8083		
43	0.0	-12.81	-0.0062	-0.0733	2.5313	-6.7654	-0.0060	0.6980	11.8258		
44	0.0	-13.63	-0.0089	-0.0595	2.6545	-6.8278	-0.0040	0.6978	6.6899		
45	-0.01	-14.44	-0.0206	-0.0722	2.7570	-7.0084	-0.0100	0.6927	3.5029		
46	-0.01	-15.30	-0.0162	-0.0673	2.9617	-7.1740	-0.0150	0.6997	4.1556		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	109	0.92	1.7	0.0	B2W0F13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	-0.01	-16.09	0.0046	-0.1274	3.0272	-7.2687	-0.0120	0.6961	-27.7043		
48	-0.01	-16.92	-0.0286	-0.0600	3.1756	-7.4184	-0.0200	0.7139	2.0965		
49	-0.01	-17.76	0.0058	-0.1271	3.3358	-7.5757	-0.0160	0.7110	-21.9172		
50	-0.01	-18.64	-0.0259	-0.0417	3.4724	-7.6771	-0.0150	0.7148	1.6116		
51	0.0	-19.46	0.0020	-0.1048	3.6435	-7.8746	-0.0090	0.7187	-52.4000		
52	0.0	-20.23	0.1127	-0.2547	3.8223	-7.9909	-0.0010	0.7120	-2.2607		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CUNF L OEL1 DEL2 OEL3 DEL4 TRANSITION
6 109 0.92 1.7 0.0 B2WDF13 0.0 20 0 20 0 FIXED

POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	19.68	-0.3681	-0.0774	-0.1111	0.2103	0.3017	-0.0020	0.0032	0.0006	-1.5760	-0.3168
2	0.0	19.38	-0.3647	-0.0755	-0.1071	0.2071	0.2937	-0.0159	0.0027	0.0021	-0.1699	-0.1322
3	0.0	18.62	-0.3183	-0.0700	-0.0954	0.2199	0.2499	-0.0175	0.0029	0.0024	-0.1672	-0.1354
4	0.0	17.81	-0.2564	-0.0615	-0.0791	0.2398	0.3086	-0.0098	0.0035	0.0015	-0.3599	-0.1566
5	0.01	16.93	-0.1873	-0.0480	-0.0564	0.2562	0.3012	-0.0068	0.0045	0.0013	-0.6622	-0.1962
6	0.0	16.17	-0.1135	-0.0366	-0.0379	0.3230	0.3341	-0.0113	0.0031	0.0016	-0.2723	-0.1447
7	0.0	15.38	-0.0476	-0.0285	-0.0219	0.5991	0.4593	-0.0098	0.0038	0.0015	-0.3905	-0.1566
8	0.0	14.64	0.0023	-0.0193	-0.0063	-8.3857	-2.7537	-0.0175	0.0037	0.0024	-0.2101	-0.1354
9	0.0	13.82	0.0519	-0.0082	0.0087	-0.1576	0.1675	-0.0205	0.0029	0.0027	-0.1428	-0.1302
10	0.0	13.06	0.1000	0.0002	0.0273	0.0023	0.2732	-0.0266	0.0022	0.0033	-0.0818	-0.1254
11	0.0	12.33	0.1690	0.0095	0.0448	0.0560	0.2651	-0.0250	0.0017	0.0031	-0.0690	-0.1228
12	0.0	11.52	0.2319	0.0167	0.0680	0.0719	0.2931	-0.0265	0.0015	0.0032	-0.0566	-0.1196
13	0.0	10.76	0.2888	0.0252	0.0855	0.0874	0.2961	-0.0219	0.0020	0.0027	-0.0925	-0.1234
14	0.0	9.93	0.3555	0.0330	0.1081	0.0929	0.3039	-0.0357	0.0016	0.0043	-0.0441	-0.1206
15	0.0	9.13	0.4255	0.0381	0.1310	0.0895	0.3078	-0.0372	0.0014	0.0044	-0.0383	-0.1184
16	-0.01	8.31	0.5098	0.0427	0.1554	0.0838	0.3048	-0.0264	0.0020	0.0032	-0.0768	-0.1213
17	-0.01	7.52	0.5965	0.0428	0.1834	0.0717	0.3082	-0.0310	0.0017	0.0038	-0.0533	-0.1216
18	-0.01	6.72	0.6825	0.0484	0.2063	0.0709	0.3023	-0.0401	0.0028	0.0046	-0.0187	-0.1157
19	-0.01	5.93	0.7448	0.0515	0.2236	0.0692	0.3002	0.1367	0.0020	-0.0153	0.0148	-0.1119
20	-0.01	5.07	0.8031	0.0538	0.2413	0.0670	0.3005	0.0047	-0.0006	-0.0006	-0.0798	-0.1349
21	-0.01	4.29	0.8664	0.0559	0.2549	0.0645	0.2942	0.0184	0.0006	-0.0021	0.0326	-0.1124
22	-0.01	3.49	0.8998	0.0556	0.2686	0.0618	0.2989	-0.0015	0.0002	0.0002	-0.1001	-0.1335
23	-0.01	2.78	0.9449	0.0538	0.2796	0.0570	0.2959	-0.0152	-0.0010	0.0016	0.0642	-0.1076
24	-0.01	1.96	0.9993	0.0498	0.2954	0.0498	0.2956	-0.0108	0.0	0.0013	0.0	-0.1205
25	-0.01	1.22	1.0277	0.0491	0.2977	0.0478	0.2897	-0.0230	-0.0004	0.0025	0.0163	-0.1103
26	-0.01	0.48	1.0488	0.0464	0.3074	0.0442	0.2931	-0.0215	-0.0005	0.0024	0.0244	-0.1133
27	-0.01	-0.29	1.1014	0.0440	0.3179	0.0400	0.2886	-0.0168	-0.0008	0.0018	0.0447	-0.1073
28	-0.01	-1.10	1.1260	0.0399	0.3289	0.0355	0.2921	-0.0155	0.0002	0.0018	-0.0145	-0.1184
29	-0.01	-1.90	1.1893	0.0363	0.3438	0.0306	0.2890	-0.0216	0.0	0.0025	0.0	-0.1159
30	-0.01	-2.68	1.2358	0.0334	0.3589	0.0270	0.2905	-0.0216	-0.0002	0.0024	0.0069	-0.1112
31	-0.01	-3.54	1.2715	0.0303	0.3696	0.0238	0.2906	-0.0231	-0.0007	0.0026	0.0292	-0.1127
32	-0.01	-4.32	1.2932	0.0275	0.3742	0.0213	0.2893	-0.0246	-0.0008	0.0027	0.0336	-0.1099
33	-0.01	-5.10	1.2682	0.0255	0.3628	0.0201	0.2861	0.0	-0.0003	0.0	-0.0003	0.0
34	-0.02	-5.84	1.2741	0.0237	0.3685	0.0186	0.2892	0.0496	-0.0010	-0.0058	-0.0197	-0.1164
35	-0.01	-6.64	1.1234	0.0266	0.3160	0.0237	0.2813	0.0186	-0.0004	-0.0022	-0.0202	-0.1184
36	-0.01	-7.41	1.0398	0.0272	0.2903	0.0261	0.2792	-0.0217	0.0011	0.0026	-0.0484	-0.1184
37	-0.01	-8.21	1.0056	0.0286	0.2865	0.0284	0.2849	-0.0327	0.0019	0.0040	-0.0574	-0.1224
38	-0.01	-8.98	1.0099	0.0289	0.2860	0.0286	0.2832	-0.0467	0.0028	0.0056	-0.0595	-0.1207
39	-0.01	-9.78	1.0323	0.0288	0.2905	0.0279	0.2815	-0.0374	0.0023	0.0045	-0.0622	-0.1213
40	-0.01	-10.54	1.0545	0.0284	0.2957	0.0269	0.2805	-0.0406	0.0035	0.0051	-0.0850	-0.1249
41	-0.01	-11.33	1.0709	0.0260	0.3074	0.0243	0.2871	-0.0420	0.0023	0.0050	-0.0554	-0.1192
42	0.0	-12.06	1.0992	0.0252	0.3104	0.0230	0.2824	-0.0482	0.0022	0.0057	-0.0452	-0.1191
43	0.0	-12.81	1.0977	0.0249	0.3155	0.0226	0.2875	-0.0420	0.0020	0.0050	-0.0482	-0.1192
44	0.0	-13.63	1.1398	0.0232	0.3255	0.0204	0.2856	-0.0373	0.0009	0.0044	-0.0241	-0.1172
45	-0.01	-14.44	1.1540	0.0216	0.3301	0.0187	0.2861	-0.0376	0.0035	0.0047	-0.0918	-0.1242
46	-0.01	-15.30	1.2084	0.0203	0.3395	0.0168	0.2810	-0.0096	0.0020	0.0013	-0.2033	-0.1355

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RATIO	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		109	0.92	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.01	-16.09	1.2100	0.0190	0.3494	0.0157	0.2888	-0.0174	0.0027	0.0023	-0.1553	-0.1323
48	-0.01	-16.92	1.2258	0.0178	0.3554	0.0145	0.2900	-0.0034	0.0020	0.0007	-0.5739	-0.1962
49	-0.01	-17.76	1.2621	0.0155	0.3654	0.0123	0.2895	-0.0097	0.0027	0.0015	-0.2785	-0.1513
50	-0.01	-18.64	1.2880	0.0138	0.3709	0.0107	0.2880	-0.0267	0.0020	0.0033	-0.0759	-0.1237
51	0.0	-19.46	1.3154	0.0107	0.3841	0.0082	0.2920	-0.0316	0.0037	0.0041	-0.1164	-0.1288
52	0.0	-20.23	1.3383	0.0095	0.3936	0.0071	0.2941	-0.0558	0.0099	0.0075	-0.1775	-0.1345

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	UEL1	UEL2	DEL3	DEL4	TRANSITION		
6	1.09	0.92	1.7	0.0	BZNOF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	19.68	-0.3180	-0.0598	-0.0718	0.1880	0.2259	0.0046	-0.0043	-0.0010	-0.9299	-0.2103
2	0.0	19.38	-0.3079	-0.0583	-0.0687	0.1845	0.2230	0.0039	-0.0036	-0.0009	-0.9237	-0.2306
3	0.0	18.62	-0.2602	-0.0510	-0.0547	0.1459	0.2102	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
4	0.0	17.81	-0.2276	-0.0454	-0.0418	0.1492	0.1838	0.0039	-0.0036	-0.0008	-0.9237	-0.2052
5	0.01	16.93	-0.1683	-0.0357	-0.0199	0.2114	0.1180	0.0061	-0.0057	-0.0013	-0.9350	-0.2078
6	0.0	16.17	-0.1170	-0.0294	-0.0063	0.2510	0.0935	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
7	0.0	15.38	-0.0487	-0.0185	0.0134	0.3866	-0.2746	0.0089	-0.0082	-0.0019	-0.9191	-0.2173
8	0.0	14.64	0.0009	-0.0111	0.0296	-12.3410	32.8888	0.0191	-0.0034	-0.0022	-0.9268	-0.2212
9	0.0	13.82	0.0599	-0.0015	0.0506	-0.0251	0.8441	0.0105	-0.0097	-0.0023	-0.9220	-0.2192
10	0.0	13.06	0.1177	0.0064	0.0659	0.0542	0.5603	0.0108	-0.0100	-0.0024	-0.9242	-0.2223
11	0.0	12.33	0.1507	0.0144	0.0854	0.0957	0.5669	0.0099	-0.0092	-0.0022	-0.9248	-0.2223
12	0.0	11.52	0.2238	0.0216	0.1070	0.0563	0.4781	0.0070	-0.0065	-0.0016	-0.9220	-0.2239
13	0.0	10.76	0.2759	0.0283	0.1254	0.1026	0.4565	0.0068	-0.0062	-0.0015	-0.9160	-0.2256
14	0.0	9.93	0.3452	0.0336	0.1535	0.0975	0.4448	0.0033	-0.0031	-0.0007	-0.9324	-0.2122
15	0.0	9.13	0.4075	0.0374	0.1799	0.0918	0.4415	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
16	-0.01	8.31	0.4829	0.0394	0.2074	0.0816	0.4296	0.0002	-0.0002	-0.0000	-0.9505	-0.1668
17	-0.01	7.52	0.5494	0.0425	0.2325	0.0774	0.4232	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
18	-0.01	6.72	0.6133	0.0462	0.2506	0.0753	0.4086	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
19	-0.01	5.93	0.6732	0.0474	0.2726	0.0704	0.4050	0.0003	-0.0003	-0.0001	-1.0006	-0.3335
20	-0.01	5.07	0.7256	0.0470	0.2869	0.0648	0.3954	-0.0004	0.0004	0.0001	-0.9381	-0.1668
21	-0.01	4.29	0.7588	0.0461	0.3019	0.0608	0.3778	-0.0020	0.0016	0.0004	-0.9006	-0.2168
22	-0.01	3.49	0.8286	0.0417	0.3162	0.0503	0.3316	-0.0029	0.0027	0.0005	-0.9316	-0.1840
23	-0.01	2.78	0.8403	0.0402	0.3249	0.0478	0.3867	-0.0033	0.0031	0.0007	-0.9324	-0.2122
24	-0.01	1.96	0.8755	0.0396	0.3308	0.0452	0.3779	-0.0043	0.0040	0.0009	-0.9250	-0.2017
25	-0.01	1.22	0.8977	0.0373	0.3413	0.0416	0.3802	-0.0054	0.0050	0.0011	-0.9311	-0.2038
26	-0.01	0.48	0.9233	0.0341	0.3506	0.0369	0.3797	-0.0051	0.0047	0.0010	-0.9270	-0.1962
27	-0.01	-0.29	0.9695	0.0305	0.3640	0.0314	0.3754	-0.0047	0.0044	0.0009	-0.9261	-0.1987
28	-0.01	-1.10	1.0077	0.0260	0.3784	0.0258	0.3755	-0.0060	0.0056	0.0012	-0.9256	-0.2001
29	-0.01	-1.90	1.0565	0.0240	0.3961	0.0227	0.3749	-0.0044	0.0041	0.0009	-0.9210	-0.2122
30	-0.01	-2.68	1.0872	0.0216	0.4095	0.0199	0.3767	-0.0051	0.0047	0.0010	-0.9123	-0.1962
31	-0.01	-3.54	1.1028	0.0194	0.4151	0.0176	0.3764	-0.0036	0.0033	0.0007	-0.9172	-0.1946
32	-0.01	-4.32	1.1116	0.0183	0.4120	0.0165	0.3787	-0.0040	0.0037	0.0008	-0.9193	-0.1918
33	-0.01	-5.10	0.9560	0.0158	0.3601	0.0207	0.3766	-0.0036	0.0033	0.0007	-0.9172	-0.1946
34	-0.02	-5.84	0.8439	0.0214	0.3201	0.0254	0.3793	-0.0049	0.0045	0.0010	-0.9189	-0.1974
35	-0.01	-6.64	0.8134	0.0222	0.3133	0.0273	0.3851	-0.0037	0.0035	0.0008	-0.9330	-0.2073
36	-0.01	-7.41	0.8662	0.0206	0.3204	0.0238	0.3699	-0.0028	0.0026	0.0006	-0.9113	-0.2025
37	-0.01	-8.21	0.8092	0.0215	0.3223	0.0247	0.3709	-0.0024	0.0023	0.0005	-0.9316	-0.1840
38	-0.01	-8.98	0.8892	0.0208	0.3274	0.0234	0.3682	-0.0025	0.0023	0.0006	-0.9006	-0.2268
39	-0.01	-9.78	0.8991	0.0207	0.3379	0.0231	0.3758	-0.0027	0.0025	0.0006	-0.9172	-0.2223
40	-0.01	-10.54	0.9150	0.0195	0.3445	0.0213	0.3754	-0.0007	0.0007	0.0002	-0.9649	-0.2382
41	-0.01	-11.33	0.9315	0.0193	0.3491	0.0207	0.3748	-0.0024	0.0022	0.0005	-0.9068	-0.2085
42	-0.01	-12.06	0.9540	0.0179	0.3597	0.0187	0.3771	-0.0009	0.0008	0.0002	-0.9172	-0.2223
43	0.0	-12.81	0.9741	0.0173	0.3648	0.0178	0.3745	-0.0007	0.0006	0.0002	-0.8577	-0.2382
44	0.0	-13.63	0.9905	0.0155	0.3725	0.0157	0.3760	-0.0011	0.0010	0.0002	-0.8869	-0.2122
45	-0.01	-14.44	1.0195	0.0144	0.3824	0.0141	0.3751	-0.0001	0.0001	0.0001	-0.7505	-0.6668
46	-0.01	-15.30	1.0315	0.0120	0.3914	0.0116	0.3795	0.0	0.0	0.0	0.0	0.0

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		109	0.92	1.7		0.0	B2h0F13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	-0.01	-16.09	1.0564	0.0109	0.3954	0.0103	0.3743	-0.0001	0.0001	0.0001	-0.7505	-0.6668	
48	-0.01	-16.92	1.0844	0.0085	0.4108	0.0078	0.3788	0.0	0.0	0.0	0.0	0.0	
49	-0.01	-17.76	1.1053	0.0077	0.4143	0.0070	0.3749	0.0011	-0.0010	-0.0002	-0.8869	-0.2122	
50	-0.01	-18.64	1.1286	0.0053	0.4279	0.0047	0.3791	-0.0001	0.0002	-0.0000	-1.5009	0.3332	
51	0.0	-19.46	1.1551	0.0035	0.4352	0.0031	0.3768	0.0011	-0.0010	-0.0002	-0.8869	-0.2122	
52	0.0	-20.23	1.1759	0.0017	0.4426	0.0014	0.3764	-0.0003	0.0002	0.0001	-0.7505	-0.3335	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	110	0.97	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	19.09	-0.0438	0.1083	-2.3057	0.5543	-0.0550	-0.0011	-2.4731		
2	0.02	19.32	-0.0288	0.1953	-2.4270	0.6951	-0.0510	-0.0305	-6.7819		
3	0.02	18.57	-0.0314	0.1959	-2.3855	0.4722	-0.0470	0.0180	-6.2408		
4	0.01	17.67	0.0073	-0.0502	-1.8946	-0.0553	-0.0560	0.0592	-6.8794		
5	0.02	16.86	-0.0071	0.0899	-1.7206	-0.3938	-0.0440	0.0944	-12.6676		
6	0.02	16.09	-0.0346	0.1374	-1.5722	-0.7045	-0.0450	0.1405	-3.9722		
7	0.01	15.21	-0.0139	-0.0065	-1.2873	-1.1274	-0.0430	0.1973	0.4705		
8	0.02	14.41	0.0172	0.0429	-1.2266	-1.3940	-0.0380	0.2337	2.4953		
9	0.0	13.72	-0.1249	0.1658	-0.9820	-1.5609	-0.0280	0.2663	-1.3279		
10	0.02	12.95	0.0088	0.0077	-0.8010	-1.8532	-0.0420	0.2937	0.8727		
11	0.0	12.21	-0.0784	0.0318	-0.6649	-2.1847	-0.0370	0.3267	-0.4051		
12	0.01	11.38	-0.0095	-0.0017	-0.3932	-2.5600	-0.0340	0.3788	0.1789		
13	0.01	10.64	-0.0638	0.0743	-0.1607	-3.0576	-0.0200	0.4131	-1.1649		
14	0.0	9.86	-0.0149	-0.0961	-0.0638	-3.2613	-0.0300	0.4335	6.4523		
15	0.01	9.07	-0.0161	-0.0325	0.1327	-3.6643	-0.0230	0.4666	2.0161		
16	0.01	8.16	0.0027	-0.1158	0.2465	-4.0691	-0.0250	0.4918	-42.8815		
17	0.01	7.49	0.0045	-0.0753	0.6075	-4.7050	-0.0170	0.5440	-16.7333		
18	0.01	6.63	-0.0052	-0.0587	0.4745	-4.7858	-0.0180	0.5503	11.2923		
19	0.01	5.81	0.0254	-0.1635	0.7722	-5.4035	-0.0150	0.5999	-6.4394		
20	0.01	4.97	0.0232	-0.1445	0.9247	-5.7646	-0.0160	0.6285	-6.4431		
21	0.0	4.16	0.0066	-0.1482	1.0405	-6.0370	-0.0100	0.6552	-22.4606		
22	0.0	3.36	0.0518	-0.2765	1.2247	-6.6490	-0.0140	0.7010	-5.3382		
23	0.0	2.66	0.0346	-0.2644	1.2976	-6.8790	-0.0200	0.7243	-7.6428		
24	0.0	1.86	0.0356	-0.2508	1.5209	-7.3816	-0.0130	0.7488	-7.0461		
25	0.0	1.07	0.0476	-0.2746	1.6791	-7.8230	-0.0120	0.7811	-5.7697		
26	0.0	0.38	0.0277	-0.2427	1.6228	-7.8892	0.0130	0.7784	-8.7646		
27	0.0	-0.39	0.0442	-0.2888	1.8644	-8.2574	0.0030	0.8041	-6.5357		
28	0.0	-1.21	0.0233	-0.2526	1.8748	-8.4449	0.0190	0.8279	-10.8421		
29	0.0	-2.05	0.0309	-0.2762	1.9665	-8.6020	0.0160	0.8382	-8.9405		
30	0.0	-2.83	0.0008	-0.2151	2.1257	-8.8562	0.0140	0.8588	-268.8999		
31	0.0	-3.65	0.0618	-0.2945	2.2721	-9.1892	0.0090	0.8782	-4.7657		
32	0.0	-4.44	0.0170	-0.2128	2.3870	-9.3600	0.0050	0.8950	-12.5176		
33	0.0	-5.22	0.0289	-0.2474	2.3843	-9.4822	0.0100	0.9014	-8.5626		
34	0.0	-5.94	0.0337	-0.2461	2.5567	-9.8135	0.0040	0.9290	-7.3050		
35	0.0	-6.76	0.0303	-0.2534	2.6839	-9.9747	0.0180	0.9384	-8.3637		
36	0.0	-7.57	0.0296	-0.2414	2.6081	-9.8035	0.0180	0.9408	-8.1568		
37	0.0	-8.38	0.0137	-0.2761	2.7188	-9.8946	0.0220	0.9410	-8.1952		
38	0.0	-9.12	0.0050	-0.1650	2.4972	-10.0403	0.0150	0.9491	-33.0000		
39	-0.01	-9.92	0.0134	-0.2437	3.0055	-9.9785	0.0210	0.9446	-18.1910		
40	-0.03	-10.65	0.1904	-0.8944	2.8166	-9.0296	0.1500	0.9152	-4.6483		
41	-0.03	-11.40	0.1970	-0.9017	2.8193	-8.9024	0.1320	0.8961	-4.5777		
42	-0.01	-12.15	0.0365	-0.3139	2.7739	-8.2209	0.0230	0.8720	-8.1532		
43	-0.01	-12.94	0.0344	-0.2651	2.9317	-8.4148	0.0210	0.8717	-7.7081		
44	-0.01	-13.74	0.0097	-0.1916	2.8448	-7.9152	0.0050	0.8162	-19.7505		
45	-0.01	-14.55	0.0080	-0.2052	3.1908	-8.3266	0.0020	0.8369	-25.6500		
46	-0.01	-15.41	0.0430	-0.3442	3.2371	-8.3274	0.0130	0.8236	-8.0046		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	Rx10 ⁻⁶	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		110	0.97	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	-0.01	-16.17	0.0321	-0.2359	3.1860	-8.3459	0.0090	0.8043	-7.3502			
48	-0.01	-16.99	0.0113	-0.2088	3.2607	-8.3774	0.0030	0.8389	-18.4796			
49	-0.01	-17.81	0.0156	-0.2158	3.3401	-8.1206	-0.0020	0.7901	-13.8359			
50	-0.01	-18.64	0.0491	-0.3557	3.8695	-8.4779	-0.0130	0.7600	-7.2452			
51	0.0	-19.48	0.0533	-0.1716	3.6308	-8.3167	-0.0100	0.7831	-3.2199			
52	0.0	-20.17	0.0621	-0.2369	4.3372	-8.5318	-0.0100	0.7192	-3.8155			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	110	0.97	1-7	0.0	B2HOF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	19.69	-0.4256	-0.0677	-0.1141	0.1589	0.2681	0.1416	0.0044	-0.0156	0.0313	-0.1099
2	0.02	19.32	-0.4140	-0.0676	-0.1153	0.1632	0.2786	0.1130	0.0033	-0.0125	0.0292	-0.1105
3	0.02	18.57	-0.3623	-0.0626	-0.0951	0.1728	0.2625	0.2275	0.0054	-0.0252	0.0238	-0.1109
4	0.01	17.67	-0.2883	-0.0568	-0.0748	0.1972	0.2596	0.0927	0.0052	-0.0099	0.0559	-0.1074
5	0.02	16.86	-0.2220	-0.0488	-0.0525	0.2198	0.2363	0.0254	0.0035	-0.0024	0.1389	-0.0959
6	0.02	16.09	-0.1679	-0.0402	-0.0388	0.2393	0.2313	0.1203	0.0023	-0.0135	0.0187	-0.1119
7	0.01	15.21	-0.1050	-0.0303	-0.0152	0.2883	0.1445	0.0639	0.0039	-0.0068	0.0611	-0.1065
8	0.02	14.41	-0.0374	-0.0206	0.0032	0.5518	-0.0866	0.0411	0.0029	-0.0043	0.0712	-0.1047
9	0.0	13.72	0.0182	-0.0133	0.0198	-0.7298	1.0860	0.0041	0.0014	-0.0003	0.3478	-0.0814
10	0.02	12.95	0.0573	-0.0095	0.0353	-0.1650	0.6857	0.1778	0.0031	-0.0199	0.0173	-0.1119
11	0.0	12.21	0.1154	-0.0029	0.0581	-0.0247	0.5032	0.0054	0.0023	-0.0004	0.4308	-0.0742
12	0.01	11.38	0.2012	0.0028	0.0812	0.0138	0.4033	0.1490	0.0023	-0.0167	0.0156	-0.1121
13	0.01	10.64	0.2964	0.0098	0.1124	0.0332	0.3791	0.1249	0.0010	-0.0141	0.0078	-0.1131
14	0.0	9.86	0.3474	0.0137	0.1292	0.0396	0.3718	0.1191	0.0026	-0.0133	0.0214	-0.1113
15	0.01	9.07	0.4165	0.0179	0.1503	0.0429	0.3608	0.0638	0.0016	-0.0070	0.0247	-0.1104
16	0.01	8.16	0.4955	0.0223	0.1768	0.0450	0.3568	0.0111	0.0020	-0.0010	0.1825	-0.0902
17	0.01	7.49	0.5760	0.0256	0.2059	0.0445	0.3575	0.0340	0.0019	-0.0037	0.0552	-0.1080
18	0.01	6.63	0.6419	0.0282	0.2271	0.0440	0.3538	-0.0088	0.0016	0.0012	-0.1791	-0.1327
19	0.01	5.81	0.7381	0.0303	0.2557	0.0410	0.3464	0.0112	0.0022	-0.0011	0.1943	-0.0954
20	0.01	4.97	0.7999	0.0307	0.2790	0.0384	0.3487	-0.0216	0.0012	0.0026	-0.0556	-0.1205
21	0.0	4.16	0.8908	0.0316	0.3054	0.0355	0.3429	0.1315	0.0008	-0.0148	0.0057	-0.1128
22	0.0	3.36	0.9520	0.0319	0.3270	0.0335	0.3435	-0.0103	0.0019	0.0015	-0.1822	-0.1425
23	0.0	2.66	1.0264	0.0320	0.3462	0.0312	0.3373	0.0470	0.0015	-0.0051	0.0319	-0.1093
24	0.0	1.86	1.0918	0.0316	0.3666	0.0290	0.3358	-0.0159	0.0014	0.0020	-0.0897	-0.1259
25	0.0	1.07	1.1769	0.0310	0.3941	0.0263	0.3348	-0.0345	0.0014	0.0041	-0.0413	-0.1190
26	0.0	0.38	1.2282	0.0309	0.4079	0.0252	0.3322	0.1545	0.0011	-0.0175	0.0068	-0.1130
27	0.0	-0.39	1.2565	0.0330	0.4132	0.0262	0.3288	0.1402	0.0008	-0.0158	0.0054	-0.1129
28	0.0	-1.21	1.3191	0.0327	0.4272	0.0248	0.3239	-0.0014	0.0002	0.0001	-0.1072	-0.0954
29	0.0	-2.05	1.3536	0.0329	0.4285	0.0243	0.3166	0.1173	0.0005	-0.0133	0.0038	-0.1130
30	0.0	-2.83	1.3874	0.0320	0.4377	0.0231	0.3155	-0.0085	-0.0003	0.0010	0.0353	-0.1138
31	0.0	-3.65	1.4356	0.0290	0.4451	0.0202	0.3101	0.1745	0.0006	-0.0198	0.0034	-0.1135
32	0.0	-4.44	1.4543	0.0253	0.4534	0.0174	0.3117	0.0757	0.0007	-0.0086	0.0089	-0.1133
33	0.0	-5.22	1.4873	0.0220	0.4613	0.0148	0.3101	0.0272	0.0005	-0.0030	0.0166	-0.1116
34	0.0	-5.94	1.5406	0.0188	0.4717	0.0122	0.3062	0.0186	0.0002	-0.0021	0.0121	-0.1130
35	0.0	-6.76	1.5702	0.0162	0.4808	0.0103	0.3062	0.0129	0.0002	-0.0014	0.0116	-0.1086
36	0.0	-7.57	1.5678	0.0146	0.4788	0.0093	0.3054	0.1410	0.0002	-0.0160	0.0016	-0.1132
37	0.0	-8.38	1.5697	0.0111	0.4731	0.0071	0.3014	0.0994	0.0005	-0.0113	0.0045	-0.1139
38	0.0	-9.12	1.5806	0.0084	0.4792	0.0053	0.3032	0.1384	0.0008	-0.0156	0.0060	-0.1129
39	-0.01	-9.92	1.5729	0.0071	0.4745	0.0045	0.3017	0.0778	0.0012	-0.0087	0.0154	-0.1115
40	-0.03	-10.65	1.5947	0.0053	0.4870	0.0033	0.3054	-0.2155	-0.0023	-0.0247	-0.0105	-0.1148
41	-0.03	-11.40	1.5679	0.0053	0.4776	0.0034	0.3046	0.1519	-0.0020	-0.0175	-0.0129	-0.1154
42	-0.01	-12.15	1.3492	0.0098	0.4073	0.0073	0.3018	0.2135	0.0020	-0.0241	0.0091	-0.1129
43	-0.01	-12.94	1.3514	0.0082	0.4183	0.0061	0.3095	0.2299	0.0	-0.0261	0.0	-0.1137
44	-0.01	-13.74	1.2718	0.0101	0.3938	0.0079	0.3096	0.1996	0.0014	-0.0225	0.0068	-0.1129
45	-0.01	-14.55	1.3365	0.0076	0.4122	0.0057	0.3084	-0.0334	0.0009	0.0039	-0.0157	-0.1159
46	-0.01	-15.41	1.3216	0.0078	0.4106	0.0059	0.3107	-0.0454	0.0026	0.0055	-0.0579	-0.1205

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		110	0.97	1.7	0.0	0.82	WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	-0.01	-16.17	1.3232	0.0068	0.4104	0.0052	0.3102	-0.0684	0.0006	0.0078	-0.0088	-0.1142	
48	-0.01	-16.99	1.3468	0.0060	0.4163	0.0045	0.3091	-0.0381	0.0014	0.0045	-0.0374	-0.1182	
49	-0.01	-17.81	1.3486	0.0046	0.4170	0.0034	0.3092	-0.0381	0.0014	0.0045	-0.0355	-0.1182	
50	-0.01	-18.64	1.3664	0.0045	0.4227	0.0033	0.3093	-0.0285	0.0054	0.0039	-0.1896	-0.1370	
51	0.0	-19.48	1.3702	0.0036	0.4216	0.0026	0.3077	-0.0633	0.0017	0.0074	-0.0261	-0.1170	
52	0.0	-20.17	1.4255	0.0011	0.4346	0.0008	0.3049	-0.0209	0.0024	0.0026	-0.1149	-0.1261	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		110	0.97	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	19.69	-0.3334	-0.0535	-0.0980	0.1606	0.2939	0.0060	-0.0056	-0.0013	-0.9256	-0.2168
2	0.02	19.32	-0.3204	-0.0528	-0.0954	0.1648	0.2979	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
3	0.02	18.57	-0.2730	-0.0484	-0.0762	0.1771	0.2790	0.0059	-0.0054	-0.0013	-0.9158	-0.2261
4	0.01	17.67	-0.2058	-0.0426	-0.0546	0.2072	0.2452	0.0060	-0.0056	-0.0013	-0.9256	-0.2168
5	0.02	16.86	-0.1565	-0.0361	-0.0389	0.2308	0.2488	0.0088	-0.0081	-0.0020	-0.9210	-0.2236
6	0.02	16.09	-0.0912	-0.0276	-0.0184	0.3020	0.2016	0.0067	-0.0062	-0.0015	-0.9185	-0.2190
7	0.01	15.21	-0.0348	-0.0207	0.0044	0.5952	-0.1266	0.0063	-0.0058	-0.0014	-0.9172	-0.2223
8	0.02	14.41	0.0367	-0.0143	0.0233	-0.3906	0.6357	0.0057	-0.0053	-0.0012	-0.9216	-0.2106
9	0.0	13.72	0.0004	-0.0095	0.0412	-0.1176	0.5123	0.0040	-0.0037	-0.0009	-0.9193	-0.2168
10	0.02	12.95	0.1404	-0.0034	0.0680	-0.0241	0.4843	0.0052	-0.0048	-0.0012	-0.9237	-0.2245
11	0.0	12.21	0.2056	0.0015	0.0840	0.0073	0.4086	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
12	0.01	11.38	0.2790	0.0057	0.1105	0.0205	0.3960	0.0048	-0.0044	-0.0010	-0.9224	-0.2085
13	0.01	10.64	0.3504	0.0103	0.1413	0.0294	0.4032	0.0035	-0.0032	-0.0007	-0.9220	-0.2096
14	0.0	9.86	0.4048	0.0142	0.1653	0.0351	0.4084	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
15	0.01	9.07	0.4638	0.0161	0.1887	0.0348	0.4070	0.0013	-0.0013	-0.0003	-0.9814	-0.2052
16	0.01	8.16	0.5524	0.0203	0.2170	0.0368	0.3928	0.0008	-0.0008	-0.0001	-0.9381	-0.1668
17	0.01	7.49	0.6095	0.0217	0.2441	0.0356	0.4005	0.0015	-0.0014	-0.0003	-0.9506	-0.2001
18	0.01	6.63	0.6710	0.0230	0.2717	0.0342	0.4049	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
19	0.01	5.81	0.7508	0.0249	0.2970	0.0332	0.3956	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
20	0.01	4.97	0.8234	0.0249	0.3258	0.0302	0.3957	0.0	0.0	0.0	0.0	0.0
21	0.0	4.16	0.8847	0.0252	0.3489	0.0285	0.3944	-0.0010	0.0010	0.0002	-0.9756	-0.1668
22	0.0	3.36	0.9545	0.0264	0.3741	0.0276	0.3919	-0.0025	0.0025	0.0005	-0.9306	-0.1868
23	0.0	2.66	1.0241	0.0248	0.4011	0.0242	0.3916	-0.0031	0.0029	0.0006	-0.9199	-0.1829
24	0.0	1.86	1.0951	0.0243	0.4233	0.0222	0.3866	-0.0033	0.0031	0.0007	-0.9324	-0.2122
25	0.0	1.07	1.1498	0.0243	0.4442	0.0212	0.3863	-0.0029	0.0026	0.0006	-0.9057	-0.2185
26	0.0	0.38	1.1660	0.0213	0.4418	0.0234	0.3789	-0.0029	0.0026	0.0006	-0.9057	-0.2185
27	0.0	-0.39	1.2085	0.0266	0.4552	0.0220	0.3767	-0.0041	0.0038	0.0008	-0.9152	-0.2034
28	0.0	-1.21	1.2419	0.0268	0.4606	0.0216	0.3709	-0.0031	0.0029	0.0006	-0.9441	-0.1829
29	0.0	-2.05	1.2688	0.0249	0.4657	0.0196	0.3670	-0.0031	0.0029	0.0006	-0.9199	-0.1829
30	0.0	-2.83	1.3135	0.0227	0.4810	0.0173	0.3662	-0.0019	0.0017	0.0004	-0.9085	-0.1931
31	0.0	-3.65	1.3405	0.0204	0.4894	0.0152	0.3651	-0.0041	0.0038	0.0008	-0.9335	-0.2034
32	0.0	-4.44	1.3724	0.0179	0.4946	0.0130	0.3604	-0.0041	0.0038	0.0008	-0.9152	-0.2034
33	0.0	-5.22	1.3964	0.0151	0.5089	0.0108	0.3645	-0.0035	0.0032	0.0007	-0.9006	-0.2096
34	0.0	-5.94	1.4341	0.0129	0.5219	0.0090	0.3639	-0.0027	0.0025	0.0005	-0.9172	-0.1853
35	0.0	-6.76	1.4489	0.0105	0.5189	0.0073	0.3581	-0.0031	0.0029	0.0007	-0.9199	-0.2152
36	0.0	-7.57	1.4318	0.0072	0.5186	0.0050	0.3622	-0.0037	0.0035	0.0008	-0.9330	-0.2073
37	0.0	-8.38	1.4285	0.0053	0.5120	0.0037	0.3584	-0.0019	0.0018	0.0004	-0.9480	-0.1931
38	0.0	-9.12	1.4449	0.0034	0.5186	0.0023	0.3589	-0.0016	0.0015	0.0003	-0.9381	-0.1668
39	-0.01	-9.92	1.4142	0.0030	0.5059	0.0021	0.3578	-0.0017	0.0016	0.0003	-0.9270	-0.1962
40	-0.03	-10.65	1.1165	0.0098	0.4004	0.0088	0.3586	-0.0019	0.0018	0.0004	-0.9480	-0.1931
41	-0.03	-11.40	1.1324	0.0085	0.4034	0.0075	0.3562	-0.0012	0.0011	0.0002	-0.9381	-0.1668
42	-0.01	-12.15	1.1402	0.0079	0.4162	0.0069	0.3650	0.0	0.0	0.0	0.0	0.0
43	-0.01	-12.94	1.1959	0.0061	0.4284	0.0051	0.3582	0.0	0.0	0.0	0.0	0.0
44	-0.01	-13.74	1.1492	0.0073	0.4117	0.0063	0.3582	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
45	-0.01	-14.55	1.1901	0.0054	0.4292	0.0045	0.3606	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
46	-0.01	-15.41	1.1972	0.0053	0.4282	0.0044	0.3577	-0.0004	0.0004	0.0001	-0.9381	-0.1668

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	110	0.97	1.7	0.0	82WOF13	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.01	-16.17	1.2190	0.0036	0.4375	0.0030	0.3589	0.0006	-0.0005	-0.0001	-0.8755	-0.1668
48	-0.01	-16.99	1.2344	0.0026	0.4412	0.0021	0.3575	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
49	-0.01	-17.81	1.2539	0.0014	0.4496	0.0011	0.3586	0.0008	-0.0008	-0.0001	-0.9381	-0.1668
50	-0.01	-18.64	1.2689	-0.0002	0.4567	-0.0002	0.3599	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
51	0.0	-19.48	1.2604	-0.0012	0.4592	-0.0010	0.3643	0.0025	-0.0023	-0.0006	-0.9006	-0.2268
52	0.0	-20.17	1.3049	-0.0035	0.4693	-0.0026	0.3597	0.0014	-0.0013	-0.0003	-0.9113	-0.2382

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION	
6	111	1.01	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.60	-0.0300	0.1990	-2.1676	0.1500	-0.0460	0.0714	-6.6333		
2	0.02	19.10	-0.0562	0.1777	-2.1966	-0.0523	-0.0460	0.0716	-3.1616		
3	0.02	18.56	-0.0528	0.2179	-1.9539	-0.1601	-0.0320	0.0934	-4.1273		
4	0.02	17.54	0.0018	0.0565	-1.8089	-0.5072	-0.0550	0.1296	31.3778		
5	0.02	16.79	-0.0319	0.1520	-1.6203	-0.6842	-0.0380	0.1612	-4.0121		
6	0.02	15.94	0.0334	0.0362	-1.4143	-1.1555	-0.0410	0.2140	1.0850		
7	0.02	15.25	-0.0079	0.0701	-1.1488	-1.2372	-0.0290	0.2384	-8.8683		
8	0.02	14.43	0.0107	0.0340	-1.2560	-1.4421	-0.0350	0.2688	3.1794		
9	0.01	13.80	-0.0137	0.0002	-0.8220	-1.8808	-0.0330	0.2980	-0.0131		
10	0.02	12.84	-0.0038	0.0923	-0.7157	-2.0346	-0.0190	0.3334	-24.2947		
11	0.02	12.19	0.0517	-0.0574	-0.3674	-2.5172	-0.0330	0.3740	-1.1099		
12	0.01	11.50	-0.0298	-0.0043	-0.4644	-2.6764	-0.0240	0.3878	0.1436		
13	0.01	10.48	0.0010	-0.0104	-0.2500	-3.0216	-0.0230	0.4165	-10.4000		
14	0.01	9.75	-0.0116	-0.0008	-0.1513	-3.3167	-0.0240	0.4435	0.0655		
15	0.01	8.96	0.0079	-0.0940	0.1321	-3.8294	-0.0230	0.4920	-11.9063		
16	0.01	8.13	0.0083	-0.0966	0.2372	-4.1285	-0.0230	0.5188	-11.6410		
17	0.01	7.35	0.0075	-0.1045	0.3567	-4.4708	-0.0150	0.5499	-13.9333		
18	0.0	6.57	0.0247	-0.1746	0.5275	-4.8820	-0.0170	0.5812	-7.0680		
19	0.01	5.75	0.0074	-0.1163	0.7172	-5.3605	-0.0170	0.6266	-15.7243		
20	0.01	4.87	0.0229	-0.1250	0.7675	-5.5689	-0.0120	0.6396	-5.4611		
21	0.0	4.17	0.0209	-0.1842	1.0454	-6.1019	-0.0130	0.6870	-8.8163		
22	0.0	3.37	0.0181	-0.1693	1.1407	-6.3964	-0.0120	0.7177	-9.3558		
23	0.0	2.65	0.0067	-0.1674	1.3388	-6.7537	-0.0150	0.7468	-24.9821		
24	0.0	1.87	0.0460	-0.2474	1.4558	-7.1835	-0.0130	0.7756	-5.3783		
25	0.0	1.06	0.0263	-0.2378	1.5976	-7.6169	-0.0080	0.8042	-9.0426		
26	0.0	0.28	0.0480	-0.2812	1.7338	-7.9856	-0.0070	0.8298	-5.8583		
27	0.0	-0.44	0.0407	-0.2699	1.7445	-8.1515	0.0100	0.8405	-6.6334		
28	0.0	-1.24	0.0387	-0.2731	1.9628	-8.4382	0.0080	0.8475	-7.0589		
29	0.0	-2.00	0.0487	-0.2621	2.0125	-8.5848	0.0130	0.8643	-5.3836		
30	0.0	-2.83	0.0392	-0.2698	2.1703	-8.8437	0.0150	0.8810	-6.8847		
31	0.0	-3.62	0.0275	-0.2395	2.2312	-9.0289	0.0100	0.9014	-8.7091		
32	0.0	-4.44	0.0281	-0.2303	2.4120	-9.3040	0.0100	0.9189	-8.1972		
33	0.0	-5.21	0.0180	-0.2132	2.3856	-9.3850	0.0060	0.9459	-11.8444		
34	0.0	-5.97	0.0224	-0.2313	2.6179	-9.7402	0.0090	0.9663	-10.3286		
35	0.0	-6.76	0.0267	-0.2363	2.6774	-9.8346	0.0120	0.9775	-8.8532		
36	0.0	-7.56	0.0332	-0.2514	2.7580	-9.9605	0.0130	0.9921	-7.5747		
37	0.0	-8.35	0.0231	-0.2543	2.8579	-10.0553	0.0160	1.0030	-11.0104		
38	0.0	-9.12	0.0210	-0.2393	2.9156	-10.1161	0.0130	1.0205	-10.0555		
39	-0.01	-9.91	0.0151	-0.2471	3.0037	-10.3824	0.0160	1.0265	-16.3669		
40	-0.01	-10.67	0.0352	-0.2892	3.1386	-10.4602	0.0120	1.0270	-8.7117		
41	-0.01	-11.43	0.0297	-0.2565	3.3184	-10.6269	0.0130	1.0288	-8.6391		
42	-0.01	-12.15	0.0328	-0.2649	3.3826	-10.6388	0.0170	1.0327	-8.0768		
43	-0.01	-12.96	0.0280	-0.2762	3.4711	-10.5804	0.0180	1.0364	-9.8643		
44	-0.02	-13.71	0.0421	-0.3579	3.5551	-10.5895	0.0260	1.0431	-8.5021		
45	-0.02	-14.60	0.0363	-0.3348	3.5617	-10.3977	0.0280	1.0476	-9.2237		
46	-0.02	-15.38	0.0264	-0.3049	3.7320	-10.3181	0.0160	1.0399	-11.5515		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		1.11	1.01	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	-0.02	-16.19	0.0260	-0.3104	3.8558	-10.1435	0.0010	1.0342	-11.9385			
48	-0.01	-16.95	-0.0019	-0.1103	3.9851	-10.0695	-0.0310	0.9943	58.0736			
49	0.0	-17.76	0.0811	-0.2355	4.1075	-10.0079	-0.0160	0.9791	-2.9043			
50	-0.02	-18.66	-0.0396	-0.1775	4.0155	-9.6751	-0.0300	1.0176	4.4838			
51	-0.01	-19.42	0.0017	-0.1784	4.4905	-10.0472	-0.0140	0.9501	-104.9294			
52	-0.01	-20.19	0.0177	-0.2198	4.3384	-9.6553	-0.0260	0.9852	-12.4169			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6	1.1	1.01	1.7	0.0	82WOF13	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.02	19.60	-0.3800	-0.0621	-0.1010	0.1634	0.2658	0.0314	0.0035	-0.0031	0.1099	-0.0999
2	0.02	19.10	-0.3777	-0.0615	-0.0969	0.1628	0.2567	0.0106	0.0040	-0.0008	0.3752	-0.0724
3	0.02	18.56	-0.3328	-0.0583	-0.0876	0.1753	0.2632	0.0163	0.0026	-0.0016	0.1565	-0.0962
4	0.02	17.54	-0.2896	-0.0534	-0.0691	0.1844	0.2385	-0.0434	0.0040	0.0054	-0.0916	-0.1253
5	0.02	16.79	-0.2282	-0.0463	-0.0508	0.2030	0.2227	-0.0558	0.0034	0.0068	-0.0605	-0.1220
6	0.02	15.94	-0.1532	-0.0348	-0.0271	0.2270	0.1771	-0.0238	0.0024	0.0030	-0.1009	-0.1248
7	0.02	15.25	-0.0981	-0.0293	-0.0145	0.2587	0.1475	-0.0142	0.0029	0.0020	-0.2061	-0.1386
8	0.02	14.43	-0.0296	-0.0205	0.0054	0.6922	-0.1837	0.0107	0.0029	-0.0009	0.2665	-0.0873
9	0.01	13.80	0.0373	-0.0135	0.0243	-0.3622	0.6522	0.0259	0.0027	-0.0027	0.1043	-0.1031
10	0.02	12.84	0.0903	-0.0082	0.0403	-0.0906	0.4462	0.0217	0.0027	-0.0022	0.1245	-0.1000
11	0.02	12.19	0.1445	-0.0030	0.0649	-0.0208	0.4489	0.1977	0.0047	-0.0220	0.0235	-0.1111
12	0.01	11.50	0.2076	0.0020	0.0828	0.0098	0.3988	0.0520	0.0023	-0.0057	0.0447	-0.1091
13	0.01	10.48	0.2598	0.0068	0.1025	0.0263	0.3944	0.1855	0.0020	-0.0208	0.0109	-0.1123
14	0.01	9.75	0.3222	0.0117	0.1228	0.0364	0.3810	0.0108	0.0017	-0.0010	0.1529	-0.0927
15	0.01	8.96	0.4071	0.0164	0.1506	0.0404	0.3698	-0.0085	0.0024	0.0013	-0.2825	-0.1491
16	0.01	8.13	0.4864	0.0200	0.1729	0.0411	0.3554	0.1357	0.0023	-0.0151	0.0166	-0.1115
17	0.01	7.35	0.5567	0.0231	0.2017	0.0415	0.3623	0.1069	0.0021	-0.0119	0.0197	-0.1115
18	0.0	6.57	0.6215	0.0250	0.2209	0.0402	0.3554	0.3964	0.0025	-0.0448	0.0063	-0.1130
19	0.01	5.75	0.7055	0.0268	0.2495	0.0380	0.3536	0.4735	0.0014	-0.0537	0.0029	-0.1133
20	0.01	4.87	0.7665	0.0278	0.2653	0.0362	0.3461	0.4223	0.0014	-0.0479	0.0034	-0.1134
21	0.0	4.17	0.8560	0.0275	0.2963	0.0321	0.3462	0.4827	0.0021	-0.0547	0.0044	-0.1133
22	0.0	3.37	0.9209	0.0271	0.3160	0.0294	0.3431	0.5269	0.0013	-0.0599	0.0024	-0.1136
23	0.0	2.65	0.9841	0.0267	0.3377	0.0272	0.3432	0.5142	0.0011	-0.0584	0.0022	-0.1136
24	0.0	1.87	1.0678	0.0243	0.3619	0.0227	0.3389	0.0792	0.0020	-0.0088	0.0246	-0.1112
25	0.0	1.06	1.1464	0.0229	0.3894	0.0200	0.3397	-0.0549	0.0020	0.0064	-0.0355	-0.1167
26	0.0	0.28	1.2202	0.0232	0.4044	0.0190	0.3314	0.0053	0.0014	-0.0004	0.2690	-0.0819
27	0.0	-0.44	1.2721	0.0247	0.4169	0.0194	0.3277	0.4424	0.0016	-0.0502	0.0036	-0.1134
28	0.0	-1.24	1.3056	0.0274	0.4241	0.0210	0.3249	0.0928	0.0013	-0.0104	0.0138	-0.1123
29	0.0	-2.00	1.3393	0.0283	0.4291	0.0211	0.3204	0.1146	0.0017	-0.0129	0.0144	-0.1122
30	0.0	-2.83	1.3892	0.0285	0.4383	0.0205	0.3155	0.5181	0.0011	-0.0589	0.0022	-0.1137
31	0.0	-3.62	1.4086	0.0270	0.4457	0.0191	0.3165	0.5527	0.0007	-0.0629	0.0012	-0.1137
32	0.0	-4.44	1.4519	0.0245	0.4508	0.0169	0.3105	0.5911	0.0	-0.0673	0.0	-0.1138
33	0.0	-5.21	1.4898	0.0207	0.4614	0.0139	0.3097	0.5048	0.0005	-0.0574	0.0009	-0.1138
34	0.0	-5.97	1.5277	0.0182	0.4711	0.0119	0.3097	0.5776	0.0005	-0.0594	0.0010	-0.1137
35	0.0	-6.76	1.5669	0.0157	0.4786	0.0101	0.3074	0.5507	0.0	-0.0615	0.0	-0.1138
36	0.0	-7.56	1.5901	0.0134	0.4828	0.0085	0.3036	0.5527	0.0007	-0.0629	0.0012	-0.1137
37	0.0	-8.35	1.5966	0.0104	0.4904	0.0064	0.3071	0.6190	0.0011	-0.0777	0.0018	-0.1137
38	0.0	-9.12	1.6250	0.0074	0.4976	0.0045	0.3062	0.0107	0.0018	-0.0010	0.1683	-0.0967
39	-0.01	-9.91	1.6471	0.0047	0.5032	0.0029	0.3055	0.0517	0.0014	-0.0057	0.0276	-0.1097
40	-0.01	-10.67	1.6650	0.0017	0.5097	0.0019	0.3060	-0.0017	0.0024	0.0005	-1.4176	-0.1138
41	-0.01	-11.45	1.6758	0.0005	0.5156	0.0003	0.3077	0.2214	0.0019	-0.0250	0.0085	-0.1128
42	-0.01	-12.15	1.6824	-0.0010	0.5209	-0.0006	0.3097	0.2436	0.0004	-0.0277	0.0015	-0.1136
43	-0.01	-12.96	1.7016	-0.0025	0.5200	-0.0015	0.3056	0.1220	0.0	-0.0139	0.0	-0.1139
44	-0.02	-13.71	1.7140	-0.0041	0.5269	-0.0024	0.3074	0.2316	0.0009	-0.0263	0.0039	-0.1134
45	-0.02	-14.60	1.7031	-0.0041	0.5227	-0.0024	0.3069	0.0109	0.0007	-0.0012	0.0620	-0.1072
46	-0.02	-15.38	1.6805	-0.0043	0.5102	-0.0025	0.3036	0.0246	0.0007	-0.0027	0.0275	-0.1099

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	111	1.01	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	-0.02	-16.19	1.6437	-0.0041	0.5051	-0.0025	0.3073	0.0380	0.0029	-0.0039	0.0770	-0.1036
48	-0.01	-16.95	1.5612	-0.0034	0.4793	-0.0022	0.3070	-0.0192	0.0005	0.0022	-0.0274	-0.1147
49	0.0	-17.76	1.5833	-0.0051	0.4867	-0.0032	0.3074	-0.0208	0.0017	0.0026	-0.0794	-0.1235
50	-0.02	-18.66	1.5854	-0.0059	0.4880	-0.0037	0.3078	-0.0142	0.0038	0.0021	-0.2642	-0.1457
51	-0.01	-19.42	1.6191	-0.0075	0.4939	-0.0046	0.3050	-0.0061	0.0043	0.0013	-0.7013	-0.2078
52	-0.01	-20.19	1.6083	-0.0080	0.4931	-0.0050	0.3066	-0.0018	0.0032	0.0006	-1.7928	-0.3335

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		111	1.01	1.7	0.0	82W0F13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPI3	YCPI3	CNF6	CH6	CB6	XCPI6	YCPI6
1	0.02	19.60	-0.2908	-0.0481	-0.0872	0.1653	0.2998	0.0096	-0.0089	-0.0021	-0.9224	-0.2189
2	0.02	19.10	-0.2954	-0.0466	-0.0849	0.1579	0.2875	0.0112	-0.0104	-0.0025	-0.9247	-0.2204
3	0.02	18.50	-0.2465	-0.0447	-0.0736	0.1812	0.2987	0.0102	-0.0094	-0.0022	-0.9197	-0.2158
4	0.02	17.54	-0.1910	-0.0390	-0.0536	0.2640	0.2808	0.0077	-0.0071	-0.0017	-0.9162	-0.2252
5	0.02	16.79	-0.1293	-0.0320	-0.0324	0.2474	0.2504	0.0052	-0.0048	-0.0012	-0.9237	-0.2245
6	0.02	15.94	-0.0679	-0.0238	-0.0098	0.3504	0.1447	0.0073	-0.0067	-0.0016	-0.9150	-0.2147
7	0.02	15.25	-0.0228	-0.0197	0.0030	0.8624	-0.1317	0.0076	-0.0071	-0.0017	-0.9282	-0.2194
8	0.02	14.43	0.0342	-0.0128	0.0253	-0.3730	0.7396	0.0064	-0.0059	-0.0014	-0.9264	-0.2137
9	0.01	13.80	0.0886	-0.0080	0.0451	-0.0906	0.5093	0.0053	-0.0049	-0.0011	-0.9204	-0.2140
10	0.02	12.84	0.1412	-0.0033	0.0619	-0.0234	0.4381	0.0043	-0.0039	-0.0010	-0.9075	-0.2249
11	0.02	12.19	0.1910	0.0010	0.0835	0.0051	0.4369	0.0052	-0.0048	-0.0012	-0.9237	-0.2245
12	0.01	11.50	0.2651	0.0056	0.1101	0.0210	0.4151	0.0028	-0.0026	-0.0006	-0.9381	-0.2025
13	0.01	10.48	0.3240	0.0084	0.1334	0.0260	0.4117	0.0022	-0.0021	-0.0005	-0.9551	-0.2122
14	0.01	9.75	0.3770	0.0124	0.1615	0.0329	0.4285	0.0015	-0.0014	-0.0003	-0.9006	-0.2001
15	0.01	8.46	0.4596	0.0157	0.1911	0.0341	0.4159	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
16	0.01	8.13	0.5221	0.0177	0.2135	0.0339	0.4097	0.0	0.0	0.0	0.0	0.0
17	0.01	7.35	0.5801	0.0185	0.2338	0.0320	0.4031	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
18	0.0	6.57	0.6517	0.0205	0.2644	0.0315	0.4057	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
19	0.01	5.75	0.7246	0.0210	0.2931	0.0290	0.4045	-0.0001	0.0001	0.0001	-0.7505	-0.6668
20	0.01	4.87	0.7807	0.0209	0.3138	0.0267	0.4019	-0.0006	0.0005	0.0001	-0.8755	-0.1668
21	0.0	4.17	0.8567	0.0201	0.3428	0.0235	0.4001	-0.0018	0.0017	0.0003	-0.9172	-0.1668
22	0.0	3.37	0.9123	0.0191	0.3665	0.0209	0.4018	-0.0016	0.0015	0.0004	-0.9381	-0.2293
23	0.0	2.65	0.9881	0.0166	0.3939	0.0168	0.3986	-0.0027	0.0025	0.0005	-0.9172	-0.1853
24	0.0	1.87	1.0632	0.0158	0.4185	0.0148	0.3936	-0.0037	0.0034	0.0008	-0.9127	-0.2073
25	0.0	1.06	1.1193	0.0161	0.4396	0.0144	0.3927	-0.0032	0.0029	0.0006	-0.9146	-0.1980
26	0.0	0.28	1.1883	0.0165	0.4587	0.0139	0.3860	-0.0039	0.0036	0.0008	-0.9237	-0.2052
27	0.0	-0.44	1.2018	0.0205	0.4587	0.0171	0.3817	-0.0045	0.0042	0.0009	-0.9339	-0.2001
28	0.0	-1.24	1.2415	0.0219	0.4669	0.0176	0.3761	-0.0041	0.0038	0.0008	-0.9152	-0.2034
29	0.0	-2.00	1.2542	0.0213	0.4680	0.0170	0.3732	-0.0046	0.0042	0.0010	-0.9136	-0.2103
30	0.0	-2.83	1.3001	0.0201	0.4764	0.0155	0.3665	-0.0038	0.0035	0.0007	-0.9085	-0.1931
31	0.0	-3.62	1.3193	0.0189	0.4864	0.0143	0.3671	-0.0032	0.0029	0.0006	-0.9146	-0.1980
32	0.0	-4.44	1.3644	0.0182	0.4974	0.0133	0.3645	-0.0032	0.0030	0.0006	-0.9381	-0.1980
33	0.0	-5.21	1.3891	0.0149	0.5076	0.0107	0.3654	-0.0020	0.0019	0.0004	-0.9381	-0.2168
34	0.0	-5.97	1.4328	0.0122	0.5201	0.0085	0.3630	-0.0034	0.0031	0.0007	-0.9050	-0.1962
35	0.0	-6.76	1.4504	0.0104	0.5246	0.0071	0.3617	-0.0028	0.0026	0.0006	-0.9113	-0.2025
36	0.0	-7.56	1.4654	0.0077	0.5268	0.0052	0.3595	-0.0038	0.0035	0.0007	-0.9085	-0.1931
37	0.0	-8.35	1.4794	0.0041	0.5359	0.0028	0.3622	-0.0034	0.0031	0.0007	-0.9050	-0.1962
38	0.0	-9.12	1.4964	0.0018	0.5411	0.0012	0.3616	-0.0020	0.0018	0.0004	-0.9006	-0.2168
39	-0.01	-9.91	1.5158	-0.0005	0.5486	-0.0003	0.3619	-0.0015	0.0014	0.0003	-0.9506	-0.2001
40	-0.01	-10.67	1.5264	-0.0021	0.5539	-0.0014	0.3628	-0.0012	0.0011	0.0003	-0.8755	-0.2501
41	-0.01	-11.45	1.5455	-0.0041	0.5585	-0.0026	0.3616	-0.0009	0.0008	0.0002	-0.9172	-0.2223
42	-0.01	-12.15	1.5462	-0.0055	0.5545	-0.0035	0.3618	-0.0016	0.0014	0.0004	-0.8912	-0.2293
43	-0.01	-12.96	1.5389	-0.0062	0.5571	-0.0040	0.3620	-0.0004	0.0004	0.0001	-0.9381	-0.1668
44	-0.02	-13.71	1.5294	-0.0063	0.5501	-0.0041	0.3596	-0.0014	0.0013	0.0002	-0.9113	-0.1668
45	-0.02	-14.60	1.5058	-0.0062	0.5395	-0.0041	0.3585	-0.0006	0.0006	0.0001	-1.0006	-0.1668
46	-0.02	-15.38	1.5038	-0.0076	0.5401	-0.0050	0.3592	-0.0002	-0.0002	-0.0000	-0.7505	-0.1668

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	111	1.01	1.7	0.0	82WOF13	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.02	-16.19	1.5098	-0.0084	0.5414	-0.0056	0.3586	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
48	-0.01	-16.95	1.5209	-0.0102	0.5478	-0.0067	0.3602	-0.0004	0.0004	0.0001	-0.9381	-0.1668
49	0.0	-17.76	1.5207	-0.0110	0.5479	-0.0073	0.3603	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
50	-0.02	-18.66	1.5288	-0.0124	0.5500	-0.0081	0.3597	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
51	-0.01	-19.42	1.5414	-0.0144	0.5593	-0.0094	0.3628	0.0	0.0	0.0	0.0	0.0
52	-0.01	-20.19	1.5257	-0.0142	0.5493	-0.0093	0.3600	0.0007	-0.0007	-0.0002	-0.9649	-0.2382

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.05	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	19.57	-0.1282	0.3714	-2.2724	0.3627	-0.0320	0.1154	-2.8977	
2	0.02	19.19	0.0546	-0.0436	-2.2544	0.1904	-0.0520	0.1164	-0.7956	
3	0.01	18.51	-0.0870	0.1578	-2.0481	0.2367	-0.0400	0.1280	-1.8138	
4	0.0	17.59	-0.1364	0.1769	-2.0739	-0.0881	-0.0290	0.1769	-1.2974	
5	0.01	16.81	-0.0335	0.0389	-1.6048	-0.3100	-0.0420	0.2291	-1.1612	
6	0.01	16.08	-0.1054	0.1765	-1.5121	-0.6737	-0.0210	0.2410	-1.6751	
7	0.0	15.27	-0.1265	0.0791	-1.0306	-1.0859	-0.0200	0.2780	-0.6253	
8	0.02	14.45	-0.0467	0.2583	-1.2729	-1.2725	-0.020	0.3209	-5.5328	
9	0.03	13.59	0.0237	0.0928	-1.1444	-1.5195	-0.0210	0.3253	3.9165	
10	0.0	12.93	-0.0640	0.0396	-0.7925	-2.0211	-0.0170	0.4012	-0.6187	
11	0.01	12.17	-0.0238	0.0783	-0.6756	-2.2487	-0.0170	0.4099	-3.2908	
12	0.02	11.38	-0.0026	0.0346	-0.6771	-2.3686	-0.0210	0.4115	-13.3231	
13	0.01	10.53	-0.0059	-0.0427	-0.4654	-2.7769	-0.0170	0.4567	7.2441	
14	0.01	9.76	0.0002	0.0057	-0.0302	-3.3513	-0.0130	0.5098	28.6000	
15	0.01	9.03	0.0068	-0.0875	0.1046	-3.6280	-0.0200	0.5221	-12.8706	
16	0.01	8.22	-0.0203	-0.0166	0.2783	-4.1091	-0.0160	0.5488	0.8167	
17	0.01	7.34	0.0142	-0.1229	0.3955	-4.3783	-0.0190	0.5779	-8.6535	
18	0.0	6.69	0.0090	-0.1406	0.4549	-4.7434	-0.0160	0.6047	-15.6222	
19	0.01	5.76	0.0148	-0.0907	0.6860	-5.1429	-0.0100	0.6373	-6.1297	
20	0.01	4.96	0.0241	-0.1447	0.8233	-5.4590	-0.0140	0.6593	-6.0058	
21	0.01	4.21	0.0245	-0.1523	1.1620	-5.5553	-0.0100	0.6974	-6.2163	
22	0.0	3.37	-0.0172	-0.0809	1.1314	-6.2423	-0.0030	0.7229	4.7046	
23	0.0	2.66	0.0191	-0.1657	1.2671	-6.5894	-0.0110	0.7445	-8.6775	
24	0.0	1.92	0.0297	-0.2156	1.5886	-7.2644	-0.0110	0.7908	-7.2586	
25	0.0	1.11	0.0177	-0.1708	1.5428	-7.4122	-0.0110	0.8088	-9.6486	
26	0.0	0.38	0.0318	-0.2225	1.7126	-7.8469	-0.0070	0.8303	-6.9975	
27	0.0	-0.42	0.0256	-0.2138	1.8304	-8.1905	-0.0030	0.8544	-8.3531	
28	0.0	-1.22	0.0323	-0.2392	2.0323	-8.6295	-0.0090	0.8724	-7.4062	
29	0.0	-1.98	0.0307	-0.2290	2.0159	-8.7585	-0.0160	0.8866	-7.4586	
30	0.0	-2.80	0.0228	-0.1879	2.1205	-8.9449	0.0110	0.8937	-8.7421	
31	0.0	-3.65	0.0220	-0.1908	2.2602	-9.1135	0.0100	0.9027	-9.0364	
32	0.0	-4.43	0.0324	-0.2633	2.3773	-9.3364	0.0110	0.9179	-8.1284	
33	0.0	-5.18	0.0332	-0.2185	2.5418	-9.6337	0.0060	0.9372	-6.5807	
34	0.0	-5.91	0.0100	-0.1960	2.5881	-9.8105	0.0100	0.9609	-19.6000	
35	0.0	-6.73	0.0182	-0.2025	2.7386	-10.0063	0.0110	0.9730	-11.1253	
36	0.0	-7.52	0.0194	-0.1961	2.7180	-10.0194	0.0140	0.9950	-10.1113	
37	0.0	-8.29	0.0586	-0.2550	2.8246	-10.0857	0.0140	0.9948	-4.3522	
38	0.0	-9.07	0.0309	-0.2212	2.5324	-10.2823	0.0110	1.0141	-7.1605	
39	0.0	-9.89	0.0281	-0.2253	3.0540	-10.4728	0.0110	1.0205	-8.0192	
40	0.0	-10.62	0.0319	-0.2886	3.1890	-10.6408	0.0120	1.0275	-9.0489	
41	0.0	-11.36	0.0314	-0.2629	3.3285	-10.7281	0.0140	1.0243	-8.3745	
42	0.0	-12.13	0.0515	-0.2621	3.2993	-10.7572	0.0150	1.0435	-5.0893	
43	-0.01	-12.88	0.0436	-0.2310	3.4403	-10.8277	0.0030	1.0383	-5.2991	
44	-0.01	-13.68	0.0348	-0.2427	3.3748	-10.8050	0.0080	1.0540	-6.9747	
45	-0.01	-14.51	0.0311	-0.2665	3.4772	-10.6464	0.0060	1.0566	-8.5704	
46	-0.01	-15.31	0.0336	-0.2900	3.8688	-10.7436	0.0210	1.0350	-8.6321	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		112	1.05	1.7		0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	-0.02	-16.11	0.0182	-0.2814	3.7959	-10.5676	-0.0210	1.0419	-15.4659				
48	-0.01	-16.92	-0.0046	-0.2185	3.8344	-10.2045	-0.0300	1.0363	47.5130				
49	-0.01	-17.75	0.0476	-0.2426	3.9060	-10.1288	-0.0040	1.0407	-5.0975				
50	-0.01	-18.62	0.0222	-0.1711	4.1363	-10.0782	-0.0420	1.0124	-7.7063				
51	-0.01	-19.40	0.0458	-0.2681	4.3281	-10.1648	-0.0240	1.0086	-5.8541				
52	-0.02	-20.18	0.0310	-0.3484	4.5634	-10.1663	-0.0440	0.9637	-11.2387				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	112	1.05	1.7	0.0	B2WDF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.57	-0.4745	-0.0630	-0.1224	0.1328	0.2579	-0.0805	0.0002	0.0092	-0.0019	-0.1140
2	0.02	19.19	-0.4682	-0.0630	-0.1208	0.1346	0.2580	-0.0419	0.0020	0.0050	-0.0484	-0.1202
3	0.01	18.51	-0.4126	-0.0604	-0.1027	0.1463	0.2488	-0.0363	0.0009	0.0042	-0.0248	-0.1158
4	0.0	17.59	-0.3582	-0.0556	-0.0807	0.1551	0.2254	-0.0538	0.0011	0.0063	-0.0209	-0.1166
5	0.01	16.81	-0.2783	-0.0502	-0.0591	0.1805	0.2125	-0.0484	0.0018	0.0057	-0.0372	-0.1172
6	0.01	16.08	-0.2200	-0.0426	-0.0364	0.1935	0.1654	-0.0418	0.0023	0.0051	-0.0539	-0.1213
7	0.0	15.27	-0.1542	-0.0348	-0.0165	0.2260	0.1067	-0.0271	0.0022	0.0034	-0.0803	-0.1243
8	0.02	14.45	-0.0911	-0.0261	0.0014	0.2867	-0.0159	-0.0760	-0.0014	0.0085	0.0178	-0.1115
9	0.03	13.59	-0.0354	-0.0194	0.0183	0.5470	-0.5171	0.0106	0.0010	-0.0011	0.0920	-0.1007
10	0.0	12.93	0.0448	-0.0131	0.0421	-0.2915	0.9381	-0.0056	0.0023	0.0009	-0.4154	-0.1668
11	0.01	12.17	0.1032	-0.0076	0.0574	-0.0735	0.5563	-0.0802	0.0022	0.0094	-0.0271	-0.1169
12	0.02	11.38	0.1636	-0.0035	0.0751	-0.0216	0.4592	-0.0668	0.0027	0.0079	-0.0404	-0.1189
13	0.01	10.53	0.2285	0.0023	0.1042	0.0102	0.4558	-0.0720	0.0020	0.0084	-0.0281	-0.1168
14	0.01	9.76	0.3022	0.0071	0.1253	0.0236	0.4147	-0.0797	0.0003	0.0091	-0.0038	-0.1147
15	0.01	9.03	0.3782	0.0115	0.1499	0.0304	0.3964	-0.0600	0.0026	0.0071	-0.0425	-0.1185
16	0.01	8.22	0.4378	0.0150	0.1708	0.0343	0.3901	-0.0875	0.0	0.0099	0.0	-0.1136
17	0.01	7.34	0.5145	0.0181	0.1917	0.0352	0.3727	-0.0851	0.0015	0.0098	-0.0176	-0.1157
18	0.0	6.69	0.5962	0.0214	0.2187	0.0359	0.3668	-0.0732	0.0020	0.0086	-0.0277	-0.1176
19	0.01	5.76	0.6546	0.0235	0.2428	0.0359	0.3710	-0.1062	0.0004	0.0122	-0.0035	-0.1145
20	0.01	4.96	0.7217	0.0247	0.2671	0.0342	0.3701	-0.0943	0.0008	0.0108	-0.0088	-0.1148
21	0.01	4.21	0.8006	0.0251	0.2931	0.0313	0.3661	-0.1063	0.0002	0.0121	-0.0021	-0.1141
22	0.0	3.37	0.8649	0.0251	0.3156	0.0290	0.3649	-0.0887	-0.0011	0.0099	0.0118	-0.1121
23	0.0	2.66	0.9387	0.0223	0.3404	0.0238	0.3626	-0.0890	0.0012	0.0102	-0.0135	-0.1151
24	0.0	1.92	1.0377	0.0193	0.3721	0.0186	0.3586	-0.0810	0.0011	0.0093	-0.0130	-0.1149
25	0.0	1.11	1.0912	0.0183	0.3859	0.0168	0.3537	-0.0983	0.0007	0.0113	-0.0069	-0.1148
26	0.0	0.38	1.1660	0.0164	0.4077	0.0140	0.3496	-0.0944	0.0012	0.0109	-0.0127	-0.1154
27	0.0	-0.42	1.2287	0.0155	0.4252	0.0126	0.3461	-0.1023	0.0012	0.0118	-0.0117	-0.1149
28	0.0	-1.22	1.2418	0.0160	0.4423	0.0124	0.3424	-0.1023	0.0009	0.0118	-0.0088	-0.1149
29	0.0	-1.98	1.3245	0.0182	0.4483	0.0137	0.3384	-0.0890	0.0013	0.0102	-0.0143	-0.1151
30	0.0	-2.80	1.3787	0.0196	0.4620	0.0142	0.3351	-0.1154	-0.0004	0.0131	0.0033	-0.1134
31	0.0	-3.65	1.4096	0.0221	0.4627	0.0157	0.3282	-0.0901	0.0	0.0102	0.0	-0.1130
32	0.0	-4.43	1.4513	0.0213	0.4701	0.0147	0.3239	-0.0876	0.0007	0.0100	-0.0077	-0.1143
33	0.0	-5.18	1.4795	0.0202	0.4771	0.0137	0.3225	-0.0054	0.0005	0.0007	-0.0973	-0.1297
34	0.0	-5.91	1.5168	0.0177	0.4867	0.0117	0.3209	-0.0849	0.0004	0.0097	-0.0044	-0.1144
35	0.0	-6.73	1.5478	0.0161	0.4954	0.0104	0.3200	-0.0531	0.0004	0.0061	-0.0071	-0.1150
36	0.0	-7.52	1.5768	0.0127	0.4980	0.0080	0.3158	-0.0756	0.0002	0.0086	-0.0030	-0.1139
37	0.0	-8.29	1.5870	0.0089	0.4959	0.0056	0.3150	-0.0200	0.0006	0.0023	-0.0300	-0.1168
38	0.0	-9.07	1.6118	0.0062	0.5096	0.0039	0.3161	-0.0798	0.0011	0.0092	-0.0132	-0.1154
39	0.0	-9.89	1.6395	0.0032	0.5207	0.0020	0.3176	0.1502	0.0016	-0.0169	0.0105	-0.1125
40	0.0	-10.62	1.6710	0.0012	0.5274	0.0007	0.3156	-0.0935	0.0029	0.0110	-0.0305	-0.1175
41	0.0	-11.36	1.6734	-0.0013	0.5330	-0.0008	0.3185	-0.0760	0.0014	0.0089	-0.0188	-0.1168
42	0.0	-12.13	1.7057	-0.0038	0.5393	-0.0022	0.3161	-0.0732	0.0002	0.0084	-0.0031	-0.1149
43	-0.01	-12.88	1.7071	-0.0053	0.5397	-0.0031	0.3162	-0.0494	0.0015	0.0057	-0.0304	-0.1162
44	-0.01	-13.68	1.7129	-0.0073	0.5441	-0.0043	0.3176	-0.0815	0.0025	0.0095	-0.0304	-0.1171
45	-0.01	-14.51	1.7133	-0.0077	0.5423	-0.0045	0.3165	-0.0722	0.0024	0.0085	-0.0333	-0.1183
46	-0.01	-15.31	1.7195	-0.0089	0.5420	-0.0052	0.3152	-0.0270	0.0024	0.0034	-0.0889	-0.1260

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	112	1.05	1.7	0.0	B2WDF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2
47	-0.02	-16.11	1.6529	-0.0083	0.5212	-0.0050	0.3153	-0.0205	0.0043	0.0028	-0.2087	-0.1351
48	-0.01	-16.92	1.6068	-0.0082	0.5060	-0.0051	0.3149	-0.0459	0.0043	0.0057	-0.0932	-0.1243
49	-0.01	-17.75	1.6370	-0.0095	0.5165	-0.0058	0.3155	-0.0322	0.0011	0.0038	-0.0350	-0.1171
50	-0.01	-18.62	1.6031	-0.0104	0.5065	-0.0065	0.3159	0.2108	0.0023	-0.0237	0.0110	-0.1124
51	-0.01	-19.40	1.6185	-0.0111	0.5094	-0.0069	0.3147	0.1642	0.0028	-0.0183	0.0169	-0.1116
52	-0.02	-20.18	1.6183	-0.0127	0.5093	-0.0078	0.3147	0.0325	0.0068	-0.0029	0.2101	-0.0883

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.12	1.05	1.7	0.0	B2W0F13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.57	-0.3410	-0.0469	-0.1173	0.1374	0.3441	0.0076	-0.0071	-0.0017	-0.9282	-0.2194
2	0.02	19.19	-0.3100	-0.0470	-0.1078	0.1516	0.3477	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
3	0.01	18.51	-0.2746	-0.0436	-0.0980	0.1588	0.3569	0.0109	-0.0101	-0.0024	-0.9226	-0.2172
4	0.0	17.59	-0.2225	-0.0397	-0.0765	0.1785	0.3440	0.0078	-0.0072	-0.0017	-0.9237	-0.2181
5	0.01	16.81	-0.1668	-0.0350	-0.0540	0.2098	0.3236	0.0108	-0.0100	-0.0023	-0.9242	-0.2131
6	0.01	16.08	-0.1271	-0.0300	-0.0398	0.2358	0.3135	0.0126	-0.0116	-0.0028	-0.9232	-0.2223
7	0.0	15.27	-0.0377	-0.0220	-0.0127	0.5833	0.3359	0.0105	-0.0097	-0.0023	-0.9220	-0.2192
8	0.02	14.45	0.0233	-0.0182	0.0035	-0.7795	0.1487	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
9	0.03	13.59	0.0897	-0.0106	0.0288	-0.1180	0.3210	0.0072	-0.0066	-0.0016	-0.9172	-0.2223
10	0.0	12.93	0.1482	-0.0057	0.0492	-0.0385	0.3319	0.0076	-0.0071	-0.0017	-0.9282	-0.2194
11	0.01	12.17	0.2153	-0.0011	0.0718	-0.0049	0.3337	0.0045	-0.0041	-0.0010	-0.9172	-0.2223
12	0.02	11.38	0.2628	0.0021	0.0927	0.0080	0.3526	0.0037	-0.0034	-0.0009	-0.9127	-0.2344
13	0.01	10.53	0.3426	0.0065	0.1220	0.0188	0.3560	0.0021	-0.0019	-0.0005	-0.8934	-0.2382
14	0.01	9.76	0.4098	0.0096	0.1494	0.0235	0.3645	0.0013	-0.0011	-0.0003	-0.8659	-0.2052
15	0.01	9.03	0.4610	0.0128	0.1775	0.0279	0.3851	0.0010	-0.0010	-0.0002	-0.9756	-0.1668
16	0.01	8.22	0.5168	0.0149	0.2018	0.0289	0.3905	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
17	0.01	7.34	0.5954	0.0175	0.2286	0.0294	0.3840	-0.0002	0.0002	0.0000	-1.1257	-0.1668
18	0.0	6.69	0.6536	0.0191	0.2552	0.0292	0.3905	0.0003	-0.0003	-0.0001	-1.0006	-0.3335
19	0.01	5.76	0.7249	0.0195	0.2810	0.0269	0.3876	-0.0006	0.0005	0.0001	-0.8755	-0.1668
20	0.01	4.96	0.7920	0.0198	0.3021	0.0250	0.3815	-0.0008	0.0008	0.0001	-0.9381	-0.1668
21	0.01	4.21	0.8506	0.0194	0.3243	0.0229	0.3813	-0.0012	0.0011	0.0002	-0.9381	-0.1668
22	0.0	3.37	0.9174	0.0176	0.3510	0.0192	0.3826	-0.0012	0.0011	0.0002	-0.9381	-0.1668
23	0.0	2.66	0.9889	0.0162	0.3769	0.0164	0.3811	-0.0025	0.0023	0.0005	-0.9306	-0.1868
24	0.0	1.92	1.0709	0.0126	0.4072	0.0118	0.3802	-0.0025	0.0023	0.0005	-0.9306	-0.1868
25	0.0	1.11	1.1341	0.0107	0.4302	0.0094	0.3794	-0.0021	0.0019	0.0004	-0.8934	-0.1906
26	0.0	0.38	1.1887	0.0113	0.4522	0.0095	0.3804	-0.0031	0.0029	0.0006	-0.9441	-0.1829
27	0.0	-0.42	1.2445	0.0110	0.4717	0.0088	0.3790	-0.0029	0.0027	0.0005	-0.9316	-0.1840
28	0.0	-1.22	1.3111	0.0114	0.4892	0.0087	0.3731	-0.0021	0.0020	0.0004	-0.9291	-0.1906
29	0.0	-1.98	1.3488	0.0109	0.5057	0.0081	0.3749	-0.0030	0.0027	0.0006	-0.9006	-0.2001
30	0.0	-2.80	1.3611	0.0137	0.5017	0.0101	0.3686	-0.0021	0.0019	0.0004	-0.8934	-0.1906
31	0.0	-3.65	1.3785	0.0168	0.4940	0.0122	0.3584	-0.0012	0.0011	0.0002	-0.9381	-0.1668
32	0.0	-4.43	1.4167	0.0158	0.5023	0.0111	0.3545	-0.0025	0.0023	0.0005	-0.9306	-0.1868
33	0.0	-5.18	1.4464	0.0142	0.5146	0.0098	0.3558	-0.0023	0.0021	0.0004	-0.9136	-0.1885
34	0.0	-5.91	1.4842	0.0130	0.5235	0.0088	0.3527	-0.0023	0.0021	0.0004	-0.9136	-0.1885
35	0.0	-6.73	1.5097	0.0122	0.5313	0.0081	0.3519	-0.0014	0.0013	0.0003	-0.9113	-0.2382
36	0.0	-7.52	1.5256	0.0084	0.5302	0.0055	0.3475	-0.0021	0.0020	0.0004	-0.9291	-0.1906
37	0.0	-8.29	1.5408	0.0060	0.5348	0.0039	0.3471	-0.0029	0.0026	0.0006	-0.9057	-0.2185
38	0.0	-9.07	1.5670	0.0038	0.5430	0.0024	0.3466	-0.0021	0.0020	0.0004	-0.9291	-0.1906
39	0.0	-9.89	1.5820	0.0006	0.5537	0.0004	0.3500	-0.0006	0.0005	0.0001	-0.8755	-0.1668
40	0.0	-10.62	1.6110	-0.0015	0.5605	-0.0009	0.3479	-0.0017	0.0016	0.0003	-0.9270	-0.1962
41	0.0	-11.36	1.6204	-0.0041	0.5625	-0.0025	0.3472	-0.0011	0.0011	0.0002	-0.9551	-0.2122
42	0.0	-12.13	1.6482	-0.0057	0.5666	-0.0035	0.3438	-0.0014	0.0013	0.0003	-0.9113	-0.2382
43	-0.01	-12.88	1.6449	-0.0074	0.5696	-0.0045	0.3463	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
44	-0.01	-13.68	1.6706	-0.0084	0.5713	-0.0053	0.3420	0.0007	-0.0006	-0.0002	-0.8577	-0.2382
45	-0.01	-14.31	1.6693	-0.0103	0.5733	-0.0062	0.3435	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
46	-0.01	-15.31	1.6166	-0.0101	0.5591	-0.0063	0.3458	0.0005	-0.0005	-0.0001	-0.9006	-0.2668

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		112	1.05	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.02	-16.11	1.6236	-0.0114	0.5623	-0.0070	0.3463	0.0018	-0.0017	-0.0004	-0.9589	-0.2223
48	-0.01	-16.92	1.6144	-0.0122	0.5617	-0.0076	0.3480	0.0010	-0.0010	-0.0002	-0.9756	-0.1668
49	-0.01	-17.75	1.5979	-0.0127	0.5540	-0.0079	0.3467	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
50	-0.01	-18.62	1.6119	-0.0143	0.5596	-0.0089	0.3472	0.0019	-0.0017	-0.0005	-0.9085	-0.2457
51	-0.01	-19.40	1.6017	-0.0146	0.5524	-0.0091	0.3449	0.0	0.0	0.0	0.0	0.0
52	-0.02	-20.18	1.6314	-0.0170	0.5649	-0.0104	0.3463	0.0008	-0.0008	-0.0001	-0.9381	-0.1668

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	113	1.10	1.7	0.0	82W0F13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.03	19.55	-0.0169	0.2986	-2.5732	0.4868	-0.0490	0.1160	-17.6722		
2	0.04	19.24	-0.0197	0.3865	-2.6246	0.4088	-0.0290	0.1234	-19.6233		
3	0.02	18.53	-0.0966	0.2532	-2.2905	0.6226	-0.0320	0.1376	-2.6215		
4	0.04	17.67	0.0061	0.2724	-2.2686	0.0525	-0.0320	0.1479	44.6656		
5	0.01	17.00	-0.1640	0.3616	-1.8245	-0.0584	-0.0210	0.1883	-2.2049		
6	0.01	16.12	-0.0845	0.2013	-1.6490	-0.5251	-0.0330	0.2513	-2.3822		
7	0.01	15.28	-0.0916	0.2012	-1.4215	-0.7815	-0.0210	0.2617	-2.1969		
8	0.02	14.46	-0.0370	0.1338	-1.1365	-1.4536	-0.0240	0.3413	-3.6162		
9	0.02	13.91	-0.0383	0.1436	-1.0253	-1.5152	-0.0140	0.3564	-3.7439		
10	0.02	13.01	-0.0080	0.1232	-0.9720	-1.6278	-0.0190	0.3529	-15.4000		
11	0.02	12.23	-0.0313	0.1468	-0.6794	-1.9934	-0.0170	0.4022	-4.6907		
12	0.02	11.50	-0.0116	0.1512	-0.4470	-2.5407	-0.0130	0.4440	-13.0379		
13	0.03	10.59	0.0234	0.1792	-0.6341	-2.6908	-0.0070	0.4583	7.6598		
14	0.01	9.84	-0.0358	0.0811	-0.2819	-3.0509	-0.0130	0.4802	-2.2059		
15	0.01	9.03	-0.0378	0.1089	-0.1669	-3.3389	-0.0110	0.5118	-2.8815		
16	0.01	8.29	-0.0596	0.1444	0.2341	-3.9722	-0.0070	0.5691	-2.4235		
17	0.02	7.51	0.0047	0.0854	0.2627	-4.2072	-0.0130	0.5825	18.1745		
18	0.01	6.71	-0.0641	0.1667	0.5714	-4.6645	-0.0040	0.6196	-2.6012		
19	0.02	5.95	0.0002	0.0247	0.7220	-5.0533	-0.0140	0.6501	123.6000		
20	0.01	5.02	-0.0174	0.0204	0.8484	-5.4142	-0.0100	0.6811	-1.1701		
21	0.01	4.28	0.0344	-0.0991	0.9319	-5.7570	-0.0150	0.7055	-2.6826		
22	0.01	3.49	-0.0140	-0.0154	0.9774	-5.9157	-0.0090	0.7312	1.1000		
23	0.01	2.68	-0.0011	-0.0195	1.2106	-6.5543	-0.0100	0.7708	17.6909		
24	0.01	1.94	0.0013	-0.0348	1.2658	-6.6755	-0.0110	0.7833	-26.7846		
25	0.01	1.09	0.0245	-0.1053	1.3643	-7.1414	-0.0100	0.8189	-4.2480		
26	0.01	0.46	-0.0186	-0.0230	1.5694	-7.5534	0.0020	0.8364	1.2344		
27	0.01	-0.32	0.0149	-0.0768	1.8946	-8.0897	-0.0020	0.8665	-5.1584		
28	0.0	-1.15	0.0288	-0.1333	1.9370	-8.4141	-0.0070	0.8821	-4.6292		
29	-0.01	-1.85	0.0110	-0.1004	2.0886	-8.6843	-0.0040	0.8924	-9.1273		
30	0.0	-2.75	0.0249	-0.0988	2.1230	-8.8845	0.0040	0.9094	-3.9703		
31	-0.01	-3.58	0.0237	-0.1262	2.2800	-9.2294	0.0070	0.9294	-5.3240		
32	-0.01	-4.36	-0.0019	-0.1153	2.4117	-9.4556	0.0150	0.9369	60.7052		
33	-0.01	-5.16	-0.0012	-0.0873	2.4656	-9.5320	0.0120	0.9518	72.1666		
34	-0.01	-5.90	0.0315	-0.1624	2.5675	-9.7716	0.0150	0.9676	-4.8627		
35	0.0	-6.72	0.0172	-0.0981	2.5294	-9.6803	0.0140	0.9836	-5.7023		
36	0.0	-7.51	0.0209	-0.1062	2.6352	-9.8484	0.0160	0.9891	-5.0342		
37	0.0	-8.27	0.0509	-0.1672	2.9604	-10.1378	0.0160	1.0001	-3.2800		
38	-0.01	-9.04	-0.0043	-0.0710	2.9224	-10.1746	0.0100	1.0259	16.5070		
39	0.0	-9.85	0.0201	-0.0651	3.0040	-10.2918	0.0090	1.0332	-3.2408		
40	-0.01	-10.66	-0.0040	-0.0804	3.0364	-10.2692	0.0110	1.0451	20.1000		
41	-0.01	-11.43	0.0091	-0.1617	3.1073	-10.4224	0.0160	1.0570	-17.7736		
42	0.0	-12.16	0.0104	-0.0386	3.4470	-10.7741	0.0080	1.0412	-3.7077		
43	-0.01	-12.95	-0.0141	-0.0313	3.5179	-10.7683	0.0010	1.0483	2.2170		
44	0.0	-13.69	-0.0005	-0.0353	3.5900	-10.8103	-0.0020	1.0541	70.6000		
45	-0.02	-14.46	0.0085	-0.2319	3.6504	-10.7249	-0.0050	1.0598	-27.2823		
46	-0.01	-15.33	0.0522	-0.1981	3.7657	-10.7013	0.0020	1.0691	-3.7946		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 113 1.10 1.7 0.0 B2WOF13 0.0 20 0 20 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.01	-16.07	0.0602	-0.2123	4.0203	-10.8637	0.0	1.0284	-3.5262
48	0.0	-16.88	0.0323	-0.1322	3.9488	-10.3827	-0.0170	1.0400	-4.0935
49	0.0	-17.68	0.0065	-0.0481	4.2702	-10.6107	-0.0560	1.0329	-7.4000
50	0.0	-18.58	0.0044	-0.0332	4.2182	-10.5219	-0.0310	1.0394	-7.5364
51	0.0	-19.35	0.0009	-0.0493	4.3549	-10.2064	-0.0430	1.0659	-54.7333
52	0.0	-20.10	0.0993	-0.2280	4.4206	-10.2593	-0.0740	1.0547	-2.2963

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	113	1-10	1.7	0-0	B2M0F13	0-0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	0.03	19.55	-0.5002	-0.0612	-0.1096	0.1224	0.2192	9.9999	9.9999	9.9999	9.9999	9.9999
2	0.04	19.24	-0.5103	-0.0604	-0.1090	0.1183	0.2136	9.9999	9.9999	9.9999	9.9999	9.9999
3	0.02	18.53	-0.4870	-0.0591	-0.1044	0.1214	0.2145	9.9999	9.9999	9.9999	9.9999	9.9999
4	0.04	17.67	-0.4243	-0.0552	-0.0814	0.1301	0.1917	9.9999	9.9999	9.9999	9.9999	9.9999
5	0.01	17.00	-0.3738	-0.0526	-0.0652	0.1406	0.1745	9.9999	9.9999	9.9999	9.9999	9.9999
6	0.01	16.12	-0.3071	-0.0461	-0.0437	0.1501	0.1423	9.9999	9.9999	9.9999	9.9999	9.9999
7	0.01	15.28	-0.2235	-0.0340	-0.0212	0.1743	0.0946	9.9999	9.9999	9.9999	9.9999	9.9999
8	0.02	14.46	-0.1567	-0.0310	0.0003	0.1979	-0.0020	9.9999	9.9999	9.9999	9.9999	9.9999
9	0.02	13.91	-0.0781	-0.0236	0.0151	0.3017	-0.1930	9.9999	9.9999	9.9999	9.9999	9.9999
10	0.02	13.01	-0.0284	-0.0176	0.0333	0.6183	-1.1703	9.9999	9.9999	9.9999	9.9999	9.9999
11	0.02	12.23	0.0335	-0.0104	0.0560	-0.3114	1.6705	9.9999	9.9999	9.9999	9.9999	9.9999
12	0.02	11.50	0.0978	-0.0062	0.0801	-0.0630	0.8194	9.9999	9.9999	9.9999	9.9999	9.9999
13	0.03	10.59	0.1573	-0.0022	0.0970	-0.0138	0.6169	9.9999	9.9999	9.9999	9.9999	9.9999
14	0.01	9.84	0.2317	0.0023	0.1218	0.0100	0.5258	9.9999	9.9999	9.9999	9.9999	9.9999
15	0.01	9.03	0.2976	0.0068	0.1409	0.0230	0.4734	9.9999	9.9999	9.9999	9.9999	9.9999
16	0.01	8.29	0.3827	0.0111	0.1743	0.0290	0.4556	9.9999	9.9999	9.9999	9.9999	9.9999
17	0.02	7.51	0.4419	0.0143	0.1912	0.0325	0.4326	9.9999	9.9999	9.9999	9.9999	9.9999
18	0.01	6.71	0.5258	0.0179	0.2166	0.0340	0.4120	9.9999	9.9999	9.9999	9.9999	9.9999
19	0.02	5.95	0.5868	0.0198	0.2400	0.0338	0.4089	9.9999	9.9999	9.9999	9.9999	9.9999
20	0.01	5.02	0.6804	0.0216	0.2717	0.0317	0.3994	9.9999	9.9999	9.9999	9.9999	9.9999
21	0.01	4.28	0.7404	0.0219	0.2952	0.0295	0.3988	9.9999	9.9999	9.9999	9.9999	9.9999
22	0.01	3.49	0.7985	0.0216	0.3121	0.0270	0.3909	9.9999	9.9999	9.9999	9.9999	9.9999
23	0.01	2.68	0.8916	0.0197	0.3452	0.0221	0.3872	9.9999	9.9999	9.9999	9.9999	9.9999
24	0.01	1.94	0.9402	0.0182	0.3603	0.0194	0.3832	9.9999	9.9999	9.9999	9.9999	9.9999
25	0.01	1.09	1.0327	0.0156	0.3842	0.0151	0.3721	9.9999	9.9999	9.9999	9.9999	9.9999
26	0.01	0.46	1.0809	0.0143	0.4007	0.0133	0.3707	9.9999	9.9999	9.9999	9.9999	9.9999
27	0.01	-0.32	1.1642	0.0119	0.4208	0.0102	0.3614	9.9999	9.9999	9.9999	9.9999	9.9999
28	0.0	-1.15	1.2428	0.0093	0.4447	0.0075	0.3579	9.9999	9.9999	9.9999	9.9999	9.9999
29	-0.01	-1.85	1.2884	0.0091	0.4591	0.0071	0.3564	9.9999	9.9999	9.9999	9.9999	9.9999
30	0.0	-2.75	1.3183	0.0123	0.4616	0.0093	0.3501	9.9999	9.9999	9.9999	9.9999	9.9999
31	-0.01	-3.58	1.3995	0.0129	0.4802	0.0092	0.3432	9.9999	9.9999	9.9999	9.9999	9.9999
32	-0.01	-4.36	1.4181	0.0142	0.4858	0.0100	0.3426	9.9999	9.9999	9.9999	9.9999	9.9999
33	-0.01	-5.16	1.4413	0.0147	0.4862	0.0102	0.3373	9.9999	9.9999	9.9999	9.9999	9.9999
34	-0.01	-5.90	1.4799	0.0134	0.4954	0.0091	0.3348	9.9999	9.9999	9.9999	9.9999	9.9999
35	0.0	-6.72	1.5118	0.0117	0.5017	0.0077	0.3318	9.9999	9.9999	9.9999	9.9999	9.9999
36	0.0	-7.51	1.5332	0.0104	0.5065	0.0068	0.3306	9.9999	9.9999	9.9999	9.9999	9.9999
37	0.0	-8.27	1.5616	0.0079	0.5101	0.0050	0.3267	9.9999	9.9999	9.9999	9.9999	9.9999
38	-0.01	-9.04	1.5700	0.0038	0.5135	0.0024	0.3271	9.9999	9.9999	9.9999	9.9999	9.9999
39	0.0	-9.85	1.6031	0.0014	0.5234	0.0009	0.3265	9.9999	9.9999	9.9999	9.9999	9.9999
40	-0.01	-10.66	1.6300	-0.0008	0.5321	-0.0005	0.3265	9.9999	9.9999	9.9999	9.9999	9.9999
41	-0.01	-11.43	1.6571	-0.0033	0.5386	-0.0020	0.3252	9.9999	9.9999	9.9999	9.9999	9.9999
42	0.0	-12.16	1.6785	-0.0063	0.5465	-0.0038	0.3258	9.9999	9.9999	9.9999	9.9999	9.9999
43	-0.01	-12.95	1.6947	-0.0089	0.5487	-0.0052	0.3238	9.9999	9.9999	9.9999	9.9999	9.9999
44	0.0	-13.69	1.7048	-0.0104	0.5543	-0.0061	0.3251	9.9999	9.9999	9.9999	9.9999	9.9999
45	-0.02	-14.46	1.7015	-0.0117	0.5535	-0.0069	0.3253	9.9999	9.9999	9.9999	9.9999	9.9999
46	-0.01	-15.33	1.7154	-0.0129	0.5560	-0.0075	0.3241	9.9999	9.9999	9.9999	9.9999	9.9999

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		113	1.10	1.7	0.0	B2WOF13	0.0	20	0	20	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CBI	XCPF1	YCPF1	CNF2	CH2	CBI2	XCPF2	YCPF2	
47	-0.01	-16.07	1.7168	-0.0143	0.5539	-0.0084	0.3226	9.9999	9.9999	9.9999	9.9999	9.9999	9.9999
48	0.0	-16.88	1.6371	-0.0133	0.5316	-0.0081	0.3244	9.9999	9.9999	9.9999	9.9999	9.9999	9.9999
49	0.0	-17.68	1.6101	-0.0140	0.5217	-0.0087	0.3240	9.9999	9.9999	9.9999	9.9999	9.9999	9.9999
50	0.0	-18.58	1.6406	-0.0158	0.5342	-0.0096	0.3256	9.9999	9.9999	9.9999	9.9999	9.9999	9.9999
51	0.0	-19.35	1.6268	-0.0167	0.5271	-0.0102	0.3240	9.9999	9.9999	9.9999	9.9999	9.9999	9.9999
52	0.0	-20.10	1.6358	-0.0176	0.5283	-0.0108	0.3229	9.9999	9.9999	9.9999	9.9999	9.9999	9.9999

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		113	1.10	1.7	0.0	BZMOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.03	19.55	-0.2762	-0.0403	-0.1264	0.1460	0.4579	0.0169	-0.0156	-0.0037	-0.9237	-0.2171
2	0.04	19.24	-0.2465	-0.0401	-0.1220	0.1626	0.4947	0.0124	-0.0115	-0.0027	-0.9260	-0.2152
3	0.02	18.53	-0.2371	-0.0394	-0.1143	0.1662	0.4822	0.0088	-0.0082	-0.0019	-0.9296	-0.2122
4	0.04	17.67	-0.1750	-0.0360	-0.0911	0.2060	0.5208	0.0163	-0.0151	-0.0036	-0.9254	-0.2189
5	0.01	17.00	-0.1262	-0.0325	-0.0731	0.2577	0.5791	0.0143	-0.0132	-0.0031	-0.9237	-0.2192
6	0.01	16.12	-0.0525	-0.0272	-0.0529	0.5175	1.0075	0.0150	-0.0138	-0.0033	-0.9206	-0.2201
7	0.01	15.28	0.0023	-0.0216	-0.0332	-9.3645	-14.4059	0.0122	-0.0113	-0.0026	-0.9289	-0.2160
8	0.02	14.46	0.0769	-0.0143	-0.0084	-0.1864	-0.1089	0.0094	-0.0087	-0.0021	-0.9261	-0.2200
9	0.02	13.91	0.1414	-0.0097	0.0095	-0.0685	0.0671	0.0074	-0.0068	-0.0016	-0.9229	-0.2208
10	0.02	13.01	0.1954	-0.0045	0.0299	-0.0231	0.1530	0.0092	-0.0086	-0.0020	-0.9299	-0.2211
11	0.02	12.23	0.2565	0.0	0.0482	0.0	0.1877	0.0074	-0.0068	-0.0016	-0.9229	-0.2208
12	0.02	11.50	0.3113	0.0038	0.0783	0.0121	0.2516	0.0079	-0.0074	-0.0017	-0.9310	-0.2111
13	0.03	10.59	0.3735	0.0064	0.1001	0.0171	0.2681	0.0058	-0.0053	-0.0013	-0.9187	-0.2185
14	0.01	9.84	0.4442	0.0103	0.1247	0.0232	0.2807	0.0057	-0.0053	-0.0012	-0.9216	-0.2106
15	0.01	9.03	0.4975	0.0134	0.1519	0.0270	0.3053	0.0049	-0.0045	-0.0009	-0.9044	-0.2309
16	0.01	8.29	0.5770	0.0168	0.1834	0.0291	0.3178	0.0041	-0.0038	-0.0009	-0.9152	-0.2278
17	0.02	7.51	0.6274	0.0184	0.2046	0.0293	0.3260	0.0032	-0.0030	-0.0006	-0.9381	-0.1980
18	0.01	6.71	0.7055	0.0197	0.2332	0.0279	0.3305	0.0025	-0.0023	-0.0006	-0.9006	-0.2268
19	0.02	5.95	0.7701	0.0209	0.2580	0.0272	0.3350	0.0027	-0.0026	-0.0006	-0.9450	-0.2223
20	0.01	5.02	0.8439	0.0219	0.2882	0.0260	0.3415	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
21	0.01	4.28	0.9126	0.0211	0.3161	0.0231	0.3464	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
22	0.01	3.49	0.9621	0.0200	0.3307	0.0208	0.3437	-0.0001	0.0001	0.0001	-0.7505	-0.6668
23	0.01	2.68	1.0367	0.0186	0.3591	0.0180	0.3464	-0.0003	0.0003	0.0000	-1.0006	-0.0001
24	0.01	1.94	1.0979	0.0155	0.3823	0.0141	0.3483	-0.0006	0.0005	0.0001	-0.8755	-0.1668
25	0.01	1.09	1.1627	0.0123	0.4121	0.0106	0.3544	-0.0012	0.0011	0.0003	-0.8755	-0.2501
26	0.01	0.46	1.2072	0.0118	0.4255	0.0098	0.3524	-0.0011	0.0011	0.0002	-0.9551	-0.2122
27	0.01	-0.32	1.2851	0.0100	0.4480	0.0078	0.3486	-0.0003	0.0003	0.0000	-1.0006	-0.0001
28	0.0	-1.15	1.3500	0.0095	0.4713	0.0071	0.3491	-0.0008	0.0008	0.0001	-0.9381	-0.1668
29	-0.01	-1.85	1.3954	0.0083	0.4877	0.0059	0.3485	-0.0004	0.0004	0.0001	-0.9381	-0.1668
30	0.0	-2.75	1.4137	0.0104	0.4855	0.0074	0.3434	-0.0006	0.0006	0.0001	-1.0006	-0.1668
31	-0.01	-3.58	1.4622	0.0120	0.4983	0.0082	0.3408	-0.0001	0.0001	0.0001	-0.7505	-0.6668
32	-0.01	-4.36	1.4716	0.0143	0.4997	0.0097	0.3395	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
33	-0.01	-5.16	1.5003	0.0137	0.5062	0.0091	0.3374	0.0	0.0	0.0	0.0	0.0
34	-0.01	-5.90	1.5409	0.0116	0.5111	0.0076	0.3317	-0.0013	0.0012	0.0003	-0.9237	-0.2052
35	0.0	-6.72	1.5794	0.0108	0.5194	0.0068	0.3288	-0.0001	0.0001	0.0001	-0.7505	-0.6668
36	0.0	-7.51	1.5899	0.0107	0.5243	0.0068	0.3298	0.0	0.0	0.0	0.0	0.0
37	0.0	-8.27	1.6179	0.0088	0.5249	0.0054	0.3244	-0.0017	0.0016	0.0003	-0.7270	-0.1962
38	-0.01	-9.04	1.6352	0.0064	0.5287	0.0039	0.3233	0.0016	-0.0014	-0.0004	-0.8912	-0.2293
39	0.0	-9.85	1.6642	0.0038	0.5408	0.0023	0.3250	0.0019	-0.0017	-0.0004	-0.9085	-0.1931
40	-0.01	-10.66	1.6623	0.0013	0.5487	0.0008	0.3261	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
41	-0.01	-11.43	1.7136	-0.0020	0.5542	-0.0012	0.3234	-0.0003	0.0003	0.0000	-1.0006	-0.0001
42	0.0	-12.16	1.7279	-0.0040	0.5592	-0.0023	0.3236	0.0025	-0.0023	-0.0006	-0.9006	-0.2268
43	-0.01	-12.95	1.7393	-0.0062	0.5611	-0.0036	0.3243	0.0032	-0.0030	-0.0006	-0.9381	-0.1980
44	0.0	-13.69	1.7550	-0.0080	0.5672	-0.0045	0.3232	0.0039	-0.0036	-0.0009	-0.9237	-0.2309
45	-0.02	-14.46	1.7470	-0.0095	0.5699	-0.0053	0.3262	0.0022	-0.0020	-0.0005	-0.9210	-0.2122
46	-0.01	-15.33	1.7635	-0.0108	0.5717	-0.0061	0.3242	0.0018	-0.0017	-0.0004	-0.9172	-0.2223

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		113	1.10	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	-0.01	-16.07	1.7576	-0.0122	0.5722	-0.0070	0.3256	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
48	0.0	-16.88	1.7462	-0.0132	0.5701	-0.0076	0.3265	0.0016	-0.0014	-0.0004	-0.8912	-0.2293
49	0.0	-17.68	1.7680	-0.0149	0.5790	-0.0085	0.3275	0.0024	-0.0022	-0.0005	-0.9068	-0.2085
50	0.0	-18.58	1.7248	-0.0148	0.5633	-0.0086	0.3266	0.0037	-0.0034	-0.0009	-0.9127	-0.2344
51	0.0	-19.35	1.8073	-0.0181	0.5879	-0.0100	0.3253	0.0050	-0.0046	-0.0011	-0.9156	-0.2268
52	0.0	-20.10	1.7973	-0.0188	0.5870	-0.0105	0.3266	0.0022	-0.0020	-0.0005	-0.9210	-0.2122

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	114	0.85	1.7	0.0	BZMOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.70	0.0284	-0.0398	-1.9966	0.1426	-0.0120	-0.0763	-1.4000		
2	0.02	19.28	0.0342	-0.1049	-1.9515	0.1225	-0.0120	-0.0709	-3.0667		
3	0.02	18.46	0.0475	-0.1295	-1.8322	-0.1216	-0.0280	-0.0465	-2.7263		
4	0.02	17.62	0.0630	-0.1322	-1.6357	-0.3807	-0.0260	-0.0200	-2.0984		
5	0.02	16.78	0.0509	-0.1552	-1.5031	-0.6204	-0.0340	0.0090	-3.0503		
6	0.02	16.03	0.0012	0.0233	-1.2896	-0.9422	-0.0120	0.0410	14.4333		
7	0.02	15.22	0.0475	-0.0955	-1.1247	-1.1611	-0.0180	0.0705	-2.0105		
8	0.02	14.47	0.0034	-0.0368	-0.9463	-1.4399	-0.0090	0.0938	-10.8118		
9	0.03	13.66	0.0268	-0.0315	-0.8215	-1.6325	-0.0110	0.1187	-1.1761		
10	0.03	12.92	0.0468	-0.0825	-0.6557	-1.9106	-0.0080	0.1434	-1.7632		
11	0.02	12.13	0.0214	-0.0670	-0.5409	-2.1473	-0.0020	0.1648	-3.1290		
12	0.02	11.39	0.0132	-0.0535	-0.3814	-2.4627	-0.0040	0.1906	-4.0515		
13	0.02	10.59	0.0119	-0.0197	-0.2215	-2.8225	0.0080	0.2190	-1.6521		
14	0.03	9.75	0.0294	-0.0662	-0.0442	-3.2347	0.0110	0.2526	-2.2503		
15	0.02	8.99	0.0231	-0.0773	0.1398	-3.5253	0.0060	0.2799	-3.3480		
16	0.02	8.16	0.0262	-0.1347	0.2679	-3.9105	0.0020	0.3068	-5.1405		
17	0.02	7.37	0.0510	-0.1614	0.4322	-4.2957	0.0050	0.3349	-3.1647		
18	0.02	6.56	0.0586	-0.1870	0.5475	-4.7060	0.0060	0.3629	-3.1918		
19	0.02	5.76	0.0574	-0.1933	0.6795	-5.0608	0.0060	0.3920	-3.3686		
20	0.02	4.92	0.0386	-0.1580	0.8974	-5.5148	0.0040	0.4246	-4.0943		
21	0.02	4.15	0.0369	-0.1566	1.0273	-5.8936	0.0010	0.4555	-4.2455		
22	0.02	3.35	0.0400	-0.1630	1.2087	-6.3236	-0.0010	0.4820	-4.0750		
23	0.02	2.62	0.0312	-0.1527	1.3283	-6.6530	-0.0020	0.5055	-4.8936		
24	0.02	1.81	0.0491	-0.1637	1.4536	-6.9574	0.0030	0.5263	-3.3348		
25	0.02	1.05	0.0462	-0.1527	1.5534	-7.3061	-0.0010	0.5472	-3.3048		
26	0.02	0.29	0.0334	-0.1597	1.6973	-7.5915	0.0	0.5623	-4.7832		
27	0.02	-0.45	0.0369	-0.1676	1.8086	-7.8963	0.0020	0.5835	-4.5436		
28	0.02	-1.27	0.0573	-0.2122	1.9027	-8.1490	0.0	0.5998	-3.7037		
29	0.02	-2.06	0.0512	-0.2137	2.0365	-8.4234	0.0	0.6163	-4.1734		
30	0.02	-2.88	0.0501	-0.1911	2.2130	-8.7415	-0.0030	0.6392	-3.8152		
31	0.02	-3.68	0.0364	-0.1859	2.3483	-9.0049	-0.0040	0.6562	-5.1088		
32	0.02	-4.50	0.0481	-0.1913	2.3371	-8.8562	0.0070	0.6567	-3.9780		
33	0.02	-5.23	0.0477	-0.1498	2.3754	-8.6758	0.0030	0.6718	-3.1400		
34	0.02	-6.04	0.0572	-0.2081	2.4041	-8.7500	0.0070	0.6959	-3.6378		
35	0.02	-6.77	0.0623	-0.2022	2.5147	-8.6919	0.0140	0.7068	-3.2459		
36	0.02	-7.58	0.0660	-0.2074	2.5003	-8.5237	0.0110	0.7011	-3.1424		
37	0.02	-8.38	0.0706	-0.2728	2.4711	-8.1149	0.0250	0.7017	-3.8646		
38	0.02	-9.12	0.0399	-0.1518	2.4873	-7.9646	0.0050	0.6934	-3.8060		
39	0.02	-9.95	0.0576	-0.2056	2.6047	-8.1489	0.0060	0.7084	-3.5701		
40	0.02	-10.69	0.0344	-0.1361	2.7348	-8.2412	0.0	0.7171	-3.9581		
41	0.02	-11.45	0.0718	-0.3095	2.7981	-8.2968	0.0160	0.7259	-4.3109		
42	0.02	-12.20	0.0620	-0.1998	2.8588	-8.3588	0.0100	0.7403	-3.2226		
43	0.02	-13.00	0.0555	-0.1727	2.9580	-8.3737	0.0050	0.7420	-3.1117		
44	0.02	-13.78	0.0642	-0.2358	3.0672	-8.4315	0.0040	0.7496	-3.6741		
45	0.02	-14.65	0.0349	-0.1628	3.1922	-8.5185	-0.0050	0.7549	-4.6665		
46	0.02	-15.47	0.0685	-0.2689	3.3062	-8.5561	0.0010	0.7441	-3.9255		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION	
		6	114	0.85	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.02	-16.25	0.0237	-0.1062	3.4339	-8.7029	-0.0120	0.7421	-4.4802				
48	0.02	-17.10	0.0377	-0.1618	3.5419	-8.9532	-0.0180	0.7407	-4.2912				
49	0.01	-17.95	0.0846	-0.3544	3.6726	-9.0582	-0.0010	0.7208	-4.1896				
50	0.02	-18.81	0.0420	-0.2718	3.8476	-9.1001	-0.0060	0.7210	-6.4714				
51	0.02	-19.59	-0.0173	-0.0478	4.0127	-9.3623	-0.0280	0.7234	2.7618				
52	0.02	-20.42	0.0625	-0.2035	4.1932	-9.5759	-0.0180	0.7157	-3.2560				

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	114	0.85	1.7	0.0	B2W0F12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.70	-0.2421	-0.0241	-0.0844	0.0997	0.3485	-0.0020	0.0011	0.0080	-0.5749	-4.0168
2	0.02	19.28	-0.2431	-0.0234	-0.0795	0.0962	0.3270	0.0108	0.0013	0.0111	0.1250	1.0277
3	0.02	18.46	-0.1913	-0.0218	-0.0688	0.1142	0.3599	0.0031	0.0016	0.0075	0.5322	2.4300
4	0.02	17.62	-0.1485	-0.0204	-0.0579	0.1377	0.3898	0.0111	0.0013	0.0099	0.1216	0.8918
5	0.02	16.78	-0.1024	-0.0190	-0.0426	0.1860	0.4162	0.0062	0.0018	0.0087	0.2903	1.3977
6	0.02	16.03	-0.0434	-0.0164	-0.0232	0.3790	0.5337	-0.0016	0.0015	0.0062	-0.9373	-3.8543
7	0.02	15.22	-0.0111	-0.0154	-0.0071	1.3871	0.6345	0.0034	0.0019	0.0060	0.5587	1.7744
8	0.02	14.47	0.0393	-0.0145	0.0061	-0.3702	0.1551	-0.0002	0.0014	0.0072	-7.2487	-36.1667
9	0.03	13.66	0.0796	-0.0138	0.0220	-0.1733	0.2767	-0.0042	0.0021	0.0023	-0.5118	-0.5477
10	0.03	12.92	0.1199	-0.0123	0.0387	-0.1026	0.3232	-0.0026	0.0021	0.0025	-0.8268	-0.9745
11	0.02	12.13	0.1643	-0.0116	0.0557	-0.0706	0.3393	-0.0030	0.0016	0.0048	-0.5332	-1.6001
12	0.02	11.39	0.2227	-0.0118	0.0695	-0.0532	0.3121	-0.0043	0.0019	0.0027	-0.4418	-0.6203
13	0.02	10.59	0.2789	-0.0115	0.0898	-0.0414	0.3217	-0.0111	0.0020	0.0031	-0.1801	-0.2794
14	0.03	9.75	0.3295	-0.0117	0.1146	-0.0356	0.3478	-0.0127	0.0021	0.0027	-0.1693	-0.2101
15	0.02	8.99	0.3738	-0.0110	0.1307	-0.0294	0.3495	-0.0204	0.0019	0.0000	-0.0956	-0.0001
16	0.02	8.16	0.4256	-0.0104	0.1514	-0.0245	0.3558	-0.0045	0.0017	0.0038	-0.3888	-0.8446
17	0.02	7.37	0.4816	-0.0106	0.1698	-0.0220	0.3525	-0.0093	0.0015	0.0028	-0.1666	-0.3012
18	0.02	6.56	0.5462	-0.0099	0.1913	-0.0182	0.3502	-0.0079	0.0016	0.0039	-0.2088	-0.4896
19	0.02	5.76	0.6125	-0.0089	0.2081	-0.0145	0.3397	-0.0111	0.0018	0.0031	-0.1666	-0.2794
20	0.02	4.92	0.6822	-0.0077	0.2284	-0.0114	0.3348	-0.0073	0.0019	0.0012	-0.2602	-0.1599
21	0.02	4.15	0.7262	-0.0056	0.2470	-0.0077	0.3401	-0.0156	0.0024	0.0007	-0.1570	-0.0450
22	0.02	3.35	0.7775	-0.0041	0.2667	-0.0053	0.3430	-0.0088	0.0029	0.0001	-0.3295	-0.0077
23	0.02	2.62	0.8445	-0.0028	0.2801	-0.0034	0.3317	-0.0155	0.0024	0.0004	-0.1580	-0.0281
24	0.02	1.81	0.9006	-0.0009	0.2966	-0.0011	0.3293	-0.0186	0.0023	-0.0004	-0.1263	0.0214
25	0.02	1.05	0.9284	0.0018	0.3093	0.0019	0.3331	-0.0218	0.0023	-0.0010	-0.1076	0.0442
26	0.02	0.29	0.9968	0.0049	0.3204	0.0050	0.3214	-0.0237	0.0020	0.0001	-0.0865	-0.0043
27	0.02	-0.45	1.0388	0.0078	0.3312	0.0075	0.3189	-0.0234	0.0018	-0.0009	-0.0769	0.0383
28	0.02	-1.27	1.0820	0.0113	0.3414	0.0105	0.3156	-0.0184	0.0022	-0.0013	-0.1195	0.0723
29	0.02	-2.06	1.1163	0.0161	0.3510	0.0144	0.3144	-0.0234	0.0017	-0.0009	-0.0748	0.0383
30	0.02	-2.88	1.1741	0.0218	0.3607	0.0186	0.3072	-0.0284	0.0014	-0.0014	-0.0493	0.0480
31	0.02	-3.68	1.1998	0.0284	0.3634	0.0237	0.3029	-0.0251	0.0020	-0.0016	-0.0797	0.0623
32	0.02	-4.50	1.2022	0.0443	0.3480	0.0369	0.2895	-0.0283	0.0019	-0.0024	-0.0671	0.0859
33	0.02	-5.23	1.1881	0.0507	0.3395	0.0427	0.2861	-0.0285	0.0020	-0.0021	-0.0719	0.0736
34	0.02	-6.04	1.1993	0.0508	0.3395	0.0424	0.2831	-0.0315	0.0021	-0.0039	-0.0682	0.1237
35	0.02	-6.77	1.1980	0.0530	0.3266	0.0442	0.2726	-0.0220	0.0027	-0.0021	-0.1250	0.0969
36	0.02	-7.58	1.1429	0.0457	0.3082	0.0400	0.2697	-0.0231	0.0020	-0.0040	-0.0866	0.1730
37	0.02	-8.38	1.1271	0.0403	0.2986	0.0357	0.2649	-0.0158	0.0021	0.0006	-0.1361	-0.0402
38	0.02	-9.12	1.0545	0.0310	0.2803	0.0294	0.2658	-0.0312	0.0030	-0.0066	-0.0961	0.2114
39	0.02	-9.95	1.0557	0.0279	0.2881	0.0265	0.2729	-0.0254	0.0026	-0.0025	-0.1023	0.0970
40	0.02	-10.69	1.0758	0.0246	0.2921	0.0229	0.2715	-0.0203	0.0034	-0.0029	-0.1699	0.1411
41	0.02	-11.45	1.0844	0.0223	0.2965	0.0206	0.2734	-0.0264	0.0036	-0.0036	-0.1338	0.1325
42	0.02	-12.20	1.0992	0.0201	0.2998	0.0183	0.2727	-0.0202	0.0032	-0.0029	-0.1609	0.1451
43	0.02	-13.00	1.0709	0.0197	0.2958	0.0184	0.2762	-0.0205	0.0035	-0.0012	-0.1707	0.0600
44	0.02	-13.78	1.0808	0.0191	0.2959	0.0177	0.2737	-0.0127	0.0027	0.0020	-0.2126	-0.1550
45	0.02	-14.65	1.0811	0.0223	0.2956	0.0207	0.2734	-0.0249	0.0045	-0.0065	-0.3433	0.2609
46	0.02	-15.47	1.1003	0.0204	0.2999	0.0185	0.2726	-0.0203	0.0072	-0.0040	-0.3546	0.1953

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		114	0.85	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	0.02	-16.25	1.1123	0.0218	0.3013	0.0196	0.2709	-0.0186	0.0050	-0.0027	-0.2688	0.1450
48	0.02	-17.10	1.1426	0.0172	0.3135	0.0151	0.2744	0.0044	-0.0012	0.0113	-0.2840	2.5605
49	0.01	-17.95	1.1806	0.0155	0.3231	0.0131	0.2737	0.0130	-0.0057	0.0213	-0.4384	1.6409
50	0.02	-18.81	1.1729	0.0157	0.3192	0.0134	0.2722	-0.0030	-0.0017	0.0070	0.5666	-2.3335
51	0.02	-19.59	1.1573	0.0146	0.3222	0.0126	0.2784	-0.0187	0.0032	-0.0012	-0.1711	0.0658
52	0.02	-20.42	1.1835	0.0127	0.3278	0.0107	0.2770	-0.0140	0.0061	-0.0016	-0.4392	0.1118

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	114	0.85	1.7	0.0	BZWF12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.70	-0.2954	-0.0216	-0.0840	0.0731	0.2845	0.0111	-0.0068	-0.0024	-0.6170	-0.2163
2	0.02	19.28	-0.2595	-0.0205	-0.0793	0.0805	0.3055	-0.0017	0.0010	0.0003	-0.6175	-0.1962
3	0.02	18.46	-0.2362	-0.0194	-0.0657	0.0821	0.2782	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
4	0.02	17.62	-0.1985	-0.0178	-0.0465	0.0897	0.2345	-0.0007	0.0004	0.0002	-0.6427	-0.2382
5	0.02	16.78	-0.1512	-0.0159	-0.0301	0.1055	0.1990	-0.0040	0.0024	0.0009	-0.6124	-0.2168
6	0.02	16.03	-0.1084	-0.0146	-0.0131	0.1351	0.1210	0.0067	-0.0041	-0.0015	-0.6193	-0.2190
7	0.02	15.22	-0.0640	-0.0135	0.0005	0.2117	-0.0074	0.0084	-0.0052	-0.0018	-0.6189	-0.2144
8	0.02	14.47	-0.0171	-0.0130	0.0164	0.7601	-0.9592	0.0081	-0.0050	-0.0018	-0.6172	-0.2223
9	0.03	13.66	0.0175	-0.0121	0.0313	-0.6913	1.7904	0.0086	-0.0053	-0.0018	-0.6162	-0.2133
10	0.03	12.92	0.0576	-0.0106	0.0523	-0.1849	0.9079	0.0117	-0.0072	-0.0026	-0.6153	-0.2223
11	0.02	12.13	0.0943	-0.0101	0.0711	-0.1071	0.7542	0.0141	-0.0086	-0.0031	-0.6134	-0.2200
12	0.02	11.39	0.1354	-0.0099	0.0894	-0.0731	0.6604	0.0112	-0.0068	-0.0025	-0.6115	-0.2204
13	0.02	10.59	0.1874	-0.0097	0.1104	-0.0518	0.5894	0.0104	-0.0064	-0.0022	-0.6153	-0.2149
14	0.03	9.75	0.2353	-0.0087	0.1319	-0.0370	0.5006	0.0103	-0.0063	-0.0023	-0.6164	-0.2202
15	0.02	8.99	0.3017	-0.0083	0.1496	-0.0277	0.4459	0.0081	-0.0049	-0.0018	-0.6110	-0.2223
16	0.02	8.16	0.3334	-0.0077	0.1779	-0.0232	0.5335	0.0070	-0.0043	-0.0016	-0.6142	-0.2239
17	0.02	7.37	0.3937	-0.0072	0.1984	-0.0184	0.5039	0.0071	-0.0043	-0.0015	-0.6126	-0.2161
18	0.02	6.56	0.4499	-0.0065	0.2196	-0.0144	0.4881	0.0056	-0.0034	-0.0012	-0.6070	-0.2204
19	0.02	5.76	0.5117	-0.0049	0.2395	-0.0096	0.4680	0.0049	-0.0030	-0.0011	-0.6121	-0.2178
20	0.02	4.92	0.5637	-0.0034	0.2621	-0.0060	0.4650	0.0037	-0.0023	-0.0008	-0.6215	-0.2073
21	0.02	4.15	0.6336	-0.0028	0.2819	-0.0044	0.4449	0.0021	-0.0013	-0.0004	-0.6189	-0.1906
22	0.02	3.35	0.6747	-0.0009	0.3020	-0.0014	0.4476	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
23	0.02	2.62	0.7235	0.0009	0.3233	0.0012	0.4460	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
24	0.02	1.81	0.7805	0.0036	0.3338	0.0047	0.4278	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
25	0.02	1.05	0.8246	0.0056	0.3486	0.0068	0.4227	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
26	0.02	0.29	0.8607	0.0103	0.3638	0.0120	0.4227	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
27	0.02	-0.45	0.9114	0.0142	0.3742	0.0156	0.4106	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
28	0.02	-1.27	0.9581	0.0175	0.3853	0.0183	0.4022	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
29	0.02	-2.06	0.9935	0.0231	0.3941	0.0232	0.3967	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
30	0.02	-2.88	1.0509	0.0277	0.4029	0.0264	0.3834	0.0022	-0.0013	-0.0005	-0.5908	-0.2122
31	0.02	-3.68	1.0786	0.0347	0.4068	0.0322	0.3772	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
32	0.02	-4.50	1.0702	0.0503	0.3855	0.0470	0.3602	0.0019	-0.0012	-0.0004	-0.6315	-0.1931
33	0.02	-5.23	1.0571	0.0569	0.3717	0.0538	0.3517	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
34	0.02	-6.04	1.0804	0.0588	0.3732	0.0544	0.3454	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
35	0.02	-6.77	1.0495	0.0575	0.3549	0.0548	0.3382	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
36	0.02	-7.58	1.0217	0.0508	0.3387	0.0497	0.3315	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
37	0.02	-8.38	0.9337	0.0410	0.3138	0.0439	0.3361	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
38	0.02	-9.12	0.9342	0.0382	0.3147	0.0409	0.3369	0.0027	-0.0016	-0.0006	-0.6110	-0.2223
39	0.02	-9.95	0.9433	0.0331	0.3187	0.0351	0.3379	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
40	0.02	-10.69	0.9359	0.0303	0.3231	0.0324	0.3452	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
41	0.02	-11.45	0.9618	0.0279	0.3241	0.0290	0.3370	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
42	0.02	-12.20	0.9467	0.0269	0.3254	0.0284	0.3437	0.0026	-0.0015	-0.0006	-0.5960	-0.2437
43	0.02	-13.00	0.9512	0.0253	0.3190	0.0266	0.3353	0.0022	-0.0014	-0.0005	-0.6363	-0.2122
44	0.02	-13.78	0.9559	0.0252	0.3206	0.0264	0.3354	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
45	0.02	-14.65	0.9685	0.0247	0.3270	0.0255	0.3377	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
46	0.02	-15.47	0.9780	0.0235	0.3305	0.0241	0.3379	0.0018	-0.0011	-0.0004	-0.6110	-0.2223

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 114 0.85 1.7 0.0 82WOF12 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-16.25	0.9872	0.0243	0.3355	0.0247	0.3398	0.0018	-0.0011	-0.0004	-0.6110	-0.2223
48	0.02	-17.10	1.0070	0.0244	0.3382	0.0242	0.3358	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
49	0.01	-17.95	0.9921	0.0236	0.3363	0.0238	0.3390	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
50	0.02	-18.81	1.0363	0.0233	0.3493	0.0225	0.3371	0.0025	-0.0015	-0.0006	-0.5999	-0.2268
51	0.02	-19.59	1.0730	0.0207	0.3654	0.0193	0.3406	0.0030	-0.0018	-0.0007	-0.6166	-0.2335
52	0.02	-20.42	1.0938	0.0212	0.3703	0.0194	0.3385	0.0029	-0.0018	-0.0006	-0.6206	-0.2185

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	115	0.92	1.7	0.0	B2M0F12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
1	0.03	19.63	0.0295	-0.0133	-2.0674	0.0788	-0.0200	-0.0425	-0.4508		
2	0.03	19.27	0.0324	-0.0504	-2.0352	0.1077	-0.0150	-0.0493	-1.5543		
3	0.03	18.52	0.0191	-0.0117	-1.8668	-0.1432	-0.0140	-0.0193	-0.6147		
4	0.02	17.65	0.0552	-0.1593	-1.7326	-0.2940	-0.0260	-0.0031	-2.8855		
5	0.03	16.85	-0.0035	0.0139	-1.5979	-0.4446	-0.0130	0.0227	-3.9714		
6	0.03	16.05	0.0335	-0.0529	-1.4667	-0.7782	-0.0200	0.0526	-1.5791		
7	0.03	15.28	-0.0066	0.0442	-1.2042	-1.0857	0.0070	0.0810	-7.4606		
8	0.03	14.51	-0.0044	0.0002	-1.0201	-1.3265	-0.0120	0.1144	-0.0364		
9	0.03	13.73	-0.0069	0.0037	-0.8863	-1.5358	-0.0030	0.1369	-0.5304		
10	0.02	12.95	0.0206	-0.0708	-0.7465	-1.7745	-0.0070	0.1543	-3.4388		
11	0.02	12.20	0.0217	-0.0864	-0.5646	-2.0312	0.0040	0.1853	-3.9806		
12	0.02	11.43	0.0304	-0.0995	-0.4037	-2.3924	0.0040	0.2221	-3.2750		
13	0.02	10.63	0.0355	-0.1387	-0.2624	-2.7423	0.0030	0.2459	-3.9070		
14	0.02	9.83	0.0375	-0.1175	-0.1066	-3.1254	0.0040	0.2806	-3.1333		
15	0.02	9.01	0.0441	-0.1617	0.0916	-3.5208	0.0070	0.3185	-3.6676		
16	0.02	8.23	0.0194	-0.1191	0.2343	-3.8885	0.0100	0.3477	-6.1423		
17	0.02	7.41	0.0221	-0.0939	0.3555	-4.3139	0.0130	0.3802	-4.2507		
18	0.02	6.65	0.0234	-0.1197	0.5365	-4.6456	0.0150	0.4074	-5.1179		
19	0.02	5.81	0.0480	-0.2052	0.6908	-4.9866	0.0080	0.4309	-4.2750		
20	0.02	5.00	0.0444	-0.1961	0.8045	-5.3337	0.0120	0.4589	-4.4180		
21	0.02	4.18	0.0542	-0.2089	0.9789	-5.7738	0.0070	0.4980	-3.8539		
22	0.02	3.41	0.0518	-0.1935	1.0823	-6.1436	0.0090	0.5213	-3.7359		
23	0.02	2.65	0.0525	-0.2185	1.2727	-6.5712	0.0010	0.5541	-4.1619		
24	0.02	1.88	0.0393	-0.1750	1.4083	-6.9030	0.0060	0.5755	-4.4534		
25	0.02	1.12	0.0644	-0.2551	1.5194	-7.2655	0.0020	0.5936	-3.9621		
26	0.02	0.35	0.0651	-0.2451	1.7009	-7.5835	0.0020	0.6214	-3.7636		
27	0.02	-0.41	0.0454	-0.2225	1.7912	-7.9499	0.0010	0.6423	-4.9022		
28	0.02	-1.20	0.0476	-0.2186	1.9410	-8.2827	0.0020	0.6629	-4.5933		
29	0.01	-1.97	0.0440	-0.2356	2.0586	-8.5723	0.0030	0.6807	-5.3545		
30	0.02	-2.82	0.0506	-0.2278	2.2040	-8.9518	0.0	0.7039	-4.5028		
31	0.02	-3.63	0.0613	-0.2598	2.3036	-9.1173	0.0060	0.7153	-4.2305		
32	0.02	-4.45	0.0655	-0.2457	2.3961	-9.1958	0.0110	0.7158	-3.7511		
33	0.01	-5.16	0.0565	-0.2631	2.5461	-9.4457	0.0130	0.7412	-4.6506		
34	0.01	-5.96	0.0750	-0.3040	2.5594	-9.3124	0.0120	0.7641	-4.0533		
35	0.02	-6.72	0.0601	-0.2561	2.4736	-8.7853	0.0300	0.7722	-4.2619		
36	0.02	-7.55	0.0358	-0.1723	2.4156	-8.3582	0.0080	0.7672	-5.0982		
37	0.02	-8.30	0.0370	-0.2068	2.4910	-8.2897	0.0110	0.7600	-5.5892		
38	0.02	-9.09	0.0364	-0.1799	2.5606	-8.2782	0.0030	0.7604	-4.9440		
39	0.02	-9.86	0.0516	-0.1942	2.6406	-8.3452	0.0040	0.7500	-5.7643		
40	0.02	-10.66	0.0466	-0.2282	2.7203	-8.4609	0.0010	0.7561	-4.8979		
41	0.02	-11.40	0.0383	-0.2266	2.8534	-8.6742	0.0020	0.7497	-5.9170		
42	0.01	-12.17	0.0666	-0.3312	2.9673	-8.7666	0.0020	0.7503	-4.9736		
43	0.01	-12.94	0.0816	-0.3582	3.0595	-8.8037	0.0140	0.7568	-4.3902		
44	0.01	-13.70	0.0931	-0.4173	3.1860	-8.8728	0.0150	0.7629	-4.4827		
45	0.01	-14.57	0.0754	-0.3585	3.3706	-9.1272	0.0040	0.7624	-4.7554		
46	0.01	-15.38	0.0834	-0.3717	3.4326	-9.0810	0.0050	0.7644	-4.4576		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	115	0.92	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	-16.21	0.0684	-0.3237	3.6079	-9.3285	0.0010	0.7610	-4.7333		
48	0.01	-16.98	0.0824	-0.3713	3.7167	-9.3928	-0.0020	0.7591	-4.5068		
49	0.02	-17.89	0.0474	-0.2133	3.8497	-9.5370	-0.0100	0.7611	-4.5013		
50	0.01	-18.71	0.0275	-0.2435	3.9886	-9.6475	-0.0110	0.7545	-8.8545		
51	0.02	-19.56	0.0755	-0.2717	4.1828	-9.9413	-0.0060	0.7612	-3.5987		
52	0.01	-20.32	0.0402	-0.2362	4.3442	-10.1774	-0.0190	0.7579	-5.8776		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	115	0.92	1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.03	19.63	-0.2667	-0.0207	-0.0691	0.0778	0.2590	0.0358	0.0000	0.0114	0.0014	0.3192
2	0.03	19.27	-0.2713	-0.0203	-0.0658	0.0748	0.2425	0.0262	-0.0001	0.0083	-0.0038	0.3179
3	0.03	18.52	-0.2456	-0.0195	-0.0577	0.0796	0.2351	0.0211	0.0010	0.0038	0.0474	0.1816
4	0.02	17.62	-0.2084	-0.0183	-0.0481	0.0880	0.2310	0.0292	0.0002	0.0080	0.0068	0.2750
5	0.03	16.85	-0.1685	-0.0163	-0.0327	0.0970	0.1943	0.0268	0.0011	0.0048	0.0410	0.1802
6	0.03	16.05	-0.1135	-0.0147	-0.0149	0.1295	0.1315	0.0309	-0.0001	0.0070	-0.0032	0.2264
7	0.03	15.28	-0.0590	-0.0141	0.0036	0.2398	-0.0617	0.0196	0.0002	0.0043	0.0102	0.2210
8	0.03	14.51	-0.0227	-0.0134	0.0146	0.5502	-0.6448	0.0211	0.0006	0.0037	0.0284	0.1768
9	0.03	13.73	0.0113	-0.0131	0.0327	-1.1635	2.8907	0.0128	0.0013	0.0012	0.1054	0.0910
10	0.02	12.95	0.0584	-0.0125	0.0444	-0.2140	0.7596	0.0179	0.0010	0.0047	0.0559	0.2606
11	0.02	12.20	0.0960	-0.0108	0.0641	-0.1130	0.6676	0.0171	0.0017	0.0010	0.0994	0.0584
12	0.02	11.43	0.1528	-0.0124	0.0816	-0.0811	0.5341	0.0200	0.0011	0.0016	0.0575	0.0782
13	0.02	10.63	0.2074	-0.0151	0.1023	-0.0730	0.4933	0.0154	0.0014	0.0019	0.0941	0.1254
14	0.02	9.83	0.2473	-0.0167	0.1243	-0.0675	0.5026	0.0101	0.0015	-0.0003	0.1534	-0.0331
15	0.02	9.01	0.3243	-0.0191	0.1473	-0.0589	0.4541	0.0086	0.0013	-0.0000	0.1511	-0.0040
16	0.02	8.23	0.3711	-0.0202	0.1680	-0.0544	0.4526	0.0031	0.0012	-0.0017	0.3870	-0.0378
17	0.02	7.41	0.4379	-0.0197	0.1879	-0.0450	0.4291	-0.0008	0.0013	-0.0034	-1.6247	4.2082
18	0.02	6.65	0.4930	-0.0203	0.2087	-0.0413	0.4233	-0.0050	0.0017	-0.0043	-0.3399	0.8532
19	0.02	5.81	0.5452	-0.0200	0.2256	-0.0368	0.4137	0.0074	0.0017	-0.0018	0.2297	-0.2479
20	0.02	5.00	0.6047	-0.0192	0.2452	-0.0317	0.4055	0.0002	0.0020	-0.0022	10.2482	-11.1668
21	0.02	4.18	0.6719	-0.0188	0.2608	-0.0280	0.3881	0.0048	0.0014	-0.0026	0.3020	-0.5418
22	0.02	3.41	0.7192	-0.0190	0.2786	-0.0264	0.3974	0.0036	0.0012	-0.0036	0.3333	-1.0001
23	0.02	2.65	0.7849	-0.0192	0.2986	-0.0245	0.3805	0.0060	0.0012	-0.0017	0.2000	-0.2835
24	0.02	1.88	0.8423	-0.0188	0.3126	-0.0224	0.3711	-0.0021	0.0017	-0.0044	-0.8332	2.0951
25	0.02	1.12	0.8842	-0.0179	0.3252	-0.0202	0.3678	0.0031	0.0013	-0.0017	0.4193	-0.5378
26	0.02	0.35	0.9367	-0.0159	0.3414	-0.0170	0.3645	0.0053	0.0015	0.0010	0.2830	0.1823
27	0.02	-0.41	0.9980	-0.0144	0.3520	-0.0144	0.3527	-0.0051	0.0011	-0.0034	-0.2255	0.6665
28	0.02	-1.20	1.0499	-0.0120	0.3683	-0.0115	0.3508	-0.0038	0.0012	-0.0030	-0.3157	0.7806
29	0.01	-1.97	1.0985	-0.0101	0.3736	-0.0092	0.3401	-0.0082	0.0011	-0.0025	-0.1341	0.3088
30	0.02	-2.82	1.1483	-0.0069	0.3855	-0.0061	0.3357	-0.0094	0.0011	-0.0039	-0.1170	0.4183
31	0.02	-3.63	1.1725	0.0050	0.3821	0.0043	0.3259	-0.0055	0.0009	-0.0018	-0.1636	0.3432
32	0.02	-4.45	1.1810	0.0165	0.3806	0.0140	0.3223	-0.0110	0.0010	-0.0035	-0.0954	0.3150
33	0.01	-5.16	1.2195	0.0245	0.3787	0.0201	0.3105	-0.0092	0.0011	-0.0048	-0.1195	0.5180
34	0.01	-5.96	1.2086	0.0318	0.3756	0.0263	0.3108	0.0022	-0.0016	-0.0019	-0.7449	-0.8486
35	0.02	-6.72	1.1655	0.0316	0.3520	0.0271	0.3020	-0.0053	0.0049	-0.0054	-0.9338	1.0125
36	0.02	-7.55	1.0767	0.0274	0.3163	0.0254	0.2937	-0.0103	0.0020	-0.0071	-0.1941	0.6924
37	0.02	-8.30	1.0406	0.0258	0.3047	0.0248	0.2928	-0.0146	0.0028	-0.0084	-0.1952	0.5729
38	0.02	-9.09	1.0254	0.0224	0.3003	0.0219	0.2928	-0.0134	0.0031	-0.0074	-0.2313	0.5496
39	0.02	-9.86	1.0379	0.0211	0.3023	0.0204	0.2912	-0.0079	0.0018	-0.0051	-0.2278	0.6497
40	0.02	-10.66	1.0539	0.0186	0.3062	0.0177	0.2905	-0.0010	0.0028	-0.0036	-2.8495	3.6332
41	0.02	-11.40	1.0658	0.0159	0.3159	0.0150	0.2964	0.0018	0.0039	-0.0037	2.1941	-2.0557
42	0.01	-12.17	1.0744	0.0153	0.3152	0.0142	0.2934	0.0112	0.0017	0.0017	0.1562	0.1546
43	0.01	-12.94	1.0942	0.0129	0.3248	0.0118	0.2968	0.0044	0.0027	-0.0016	0.6135	-0.3713
44	0.01	-13.70	1.1120	0.0118	0.3296	0.0107	0.2964	0.0226	0.0020	0.0038	0.0885	0.1695
45	0.01	-14.57	1.1131	0.0113	0.3347	0.0101	0.3007	0.0212	0.0024	0.0034	0.1132	0.1587
46	0.01	-15.38	1.1288	0.0107	0.3336	0.0095	0.2956	0.0210	0.0008	0.0054	0.0381	0.2570

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST. PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		115	0.92	1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.02	-16.21	1.1383	0.0102	0.3409	0.0090	0.2995	0.0225	-0.0013	0.0068	-0.0578	0.3021
48	0.01	-16.98	1.1575	0.0099	0.3415	0.0085	0.2950	0.0222	-0.0001	0.0070	-0.0045	0.3152
49	0.02	-17.89	1.1583	0.0095	0.3449	0.0082	0.2977	0.0077	0.0002	-0.0011	0.0260	-0.1473
50	0.01	-18.71	1.1813	0.0090	0.3495	0.0077	0.2959	0.0179	-0.0008	0.0074	-0.0447	0.4114
51	0.02	-19.56	1.2133	0.0077	0.3640	0.0064	0.3000	0.0130	-0.0017	0.0035	-0.1346	0.2717
52	0.01	-20.32	1.2293	0.0067	0.3644	0.0055	0.2979	0.0072	0.0056	-0.0022	0.7776	-0.3057

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	115	0.92	1.7	0.0	0.2WOF12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.03	19.63	-0.2774	-0.0189	-0.0774	0.0681	0.2788	0.0010	-0.0036	-0.0002	-0.6499	-0.1668
2	0.03	19.27	-0.2670	-0.0192	-0.0764	0.0721	0.2860	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
3	0.03	18.52	-0.2277	-0.0184	-0.0660	0.0810	0.2897	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
4	0.02	17.65	-0.1976	-0.0179	-0.0447	0.0908	0.2264	-0.0074	0.0045	0.0014	-0.6148	-0.1938
5	0.03	16.85	-0.1645	-0.0169	-0.0365	0.1030	0.2220	0.0032	-0.0019	-0.0007	-0.6093	-0.2293
6	0.03	16.05	-0.1021	-0.0150	-0.0196	0.1469	0.1922	0.0063	-0.0039	-0.0014	-0.6189	-0.2223
7	0.03	15.28	-0.0766	-0.0150	-0.0041	0.1964	0.0538	0.0207	-0.0128	-0.0045	-0.6182	-0.2175
8	0.03	14.51	-0.0198	-0.0140	0.0149	0.7069	-0.7526	0.0106	-0.0065	-0.0024	-0.6131	-0.2234
9	0.03	13.73	0.0008	-0.0148	0.0312	-18.4967	38.9582	0.0168	-0.0103	-0.0037	-0.6130	-0.2204
10	0.02	12.95	0.0517	-0.0132	0.0467	-0.2553	0.9038	0.0154	-0.0039	-0.0034	-0.6168	-0.2187
11	0.02	12.20	0.0629	-0.0124	0.0645	-0.1496	0.7783	0.0132	-0.0081	-0.0029	-0.6173	-0.2198
12	0.02	11.43	0.1409	-0.0132	0.0867	-0.0940	0.6157	0.0133	-0.0081	-0.0030	-0.6127	-0.2232
13	0.02	10.63	0.1856	-0.0151	0.1105	-0.0813	0.5956	0.0163	-0.0100	-0.0036	-0.6165	-0.2189
14	0.02	9.83	0.2295	-0.0170	0.1303	-0.0741	0.5589	0.0128	-0.0079	-0.0027	-0.6171	-0.2137
15	0.02	9.01	0.2910	-0.0188	0.1575	-0.0646	0.5410	0.0107	-0.0065	-0.0023	-0.6120	-0.2182
16	0.02	8.23	0.3373	-0.0192	0.1787	-0.0565	0.5297	0.0108	-0.0066	-0.0023	-0.6156	-0.2131
17	0.02	7.41	0.3941	-0.0192	0.2016	-0.0487	0.5116	0.0099	-0.0060	-0.0022	-0.6110	-0.2223
18	0.02	6.65	0.4470	-0.0190	0.2188	-0.0425	0.4896	0.0079	-0.0048	-0.0018	-0.6138	-0.2237
19	0.02	5.81	0.5077	-0.0180	0.2421	-0.0355	0.4768	0.0070	-0.0043	-0.0015	-0.6213	-0.2096
20	0.02	5.00	0.5580	-0.0164	0.2601	-0.0275	0.4662	0.0070	-0.0043	-0.0016	-0.6142	-0.2239
21	0.02	4.18	0.6166	-0.0166	0.2861	-0.0270	0.4641	0.0059	-0.0036	-0.0012	-0.6185	-0.2092
22	0.02	3.41	0.6605	-0.0165	0.3053	-0.0250	0.4622	0.0049	-0.0030	-0.0011	-0.6121	-0.2178
23	0.02	2.65	0.7186	-0.0161	0.3266	-0.0224	0.4545	0.0040	-0.0024	-0.0009	-0.6124	-0.2168
24	0.02	1.88	0.7708	-0.0143	0.3406	-0.0186	0.4419	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
25	0.02	1.12	0.8100	-0.0129	0.3571	-0.0160	0.4409	0.0038	-0.0023	-0.0008	-0.6052	-0.2194
26	0.02	0.35	0.8685	-0.0107	0.3712	-0.0124	0.4274	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
27	0.02	-0.41	0.9184	-0.0095	0.3880	-0.0103	0.4225	0.0028	-0.0017	-0.0007	-0.6070	-0.2382
28	0.02	-1.20	0.9678	-0.0060	0.3989	-0.0062	0.4121	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
29	0.01	-1.97	1.0114	-0.0031	0.4087	-0.0031	0.4041	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
30	0.02	-2.82	1.0568	0.0010	0.4215	0.0009	0.3989	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
31	0.02	-3.63	1.0824	0.0147	0.4101	0.0136	0.3788	0.0023	-0.0014	-0.0005	-0.6303	-0.2320
32	0.02	-4.45	1.0852	0.0295	0.4000	0.0272	0.3686	0.0021	-0.0013	-0.0004	-0.6189	-0.1906
33	0.01	-5.16	1.1178	0.0372	0.3999	0.0333	0.3577	0.0019	-0.0012	-0.0004	-0.6315	-0.1931
34	0.01	-5.96	1.1170	0.0424	0.3845	0.0380	0.3442	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
35	0.02	-6.72	1.0443	0.0364	0.3689	0.0349	0.3341	0.0023	-0.0014	-0.0005	-0.6086	-0.2320
36	0.02	-7.55	1.0023	0.0346	0.3342	0.0346	0.3334	0.0021	-0.0013	-0.0004	-0.6189	-0.1906
37	0.02	-8.30	0.9845	0.0326	0.3243	0.0331	0.3294	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
38	0.02	-9.09	0.9855	0.0304	0.3214	0.0308	0.3261	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
39	0.02	-9.86	0.9862	0.0280	0.3221	0.0284	0.3266	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
40	0.02	-10.66	0.9993	0.0253	0.3290	0.0253	0.3292	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
41	0.02	-11.40	1.0032	0.0241	0.3278	0.0240	0.3267	0.0039	-0.0024	-0.0008	-0.6153	-0.2052
42	0.01	-12.17	1.0004	0.0222	0.3264	0.0222	0.3262	0.0019	-0.0011	-0.0004	-0.6052	-0.1931
43	0.01	-12.94	1.0168	0.0213	0.3302	0.0210	0.3246	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
44	0.01	-13.70	0.9999	0.0208	0.3264	0.0208	0.3264	0.0024	-0.0014	-0.0005	-0.6041	-0.2085
45	0.01	-14.57	1.0341	0.0192	0.3446	0.0186	0.3332	0.0020	-0.0012	-0.0004	-0.5999	-0.2168
46	0.01	-15.38	1.0439	0.0193	0.3398	0.0185	0.3256	0.0017	-0.0010	-0.0003	-0.6175	-0.1962

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
		6	115	0.92	1.7	0.0	B2WOF12	0.0		20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4			
47	0.02	-16.21	1.0547	0.0190	0.3480	0.0180	0.3300	0.0024	-0.0014	-0.0005	-0.6041	-0.2085			
48	0.01	-16.98	1.0774	0.0189	0.3549	0.0175	0.3294	0.0015	-0.0009	-0.0003	-0.6332	-0.2001			
49	0.02	-17.89	1.1051	0.0178	0.3626	0.0161	0.3281	0.0015	-0.0009	-0.0003	-0.6332	-0.2001			
50	0.01	-18.71	1.1114	0.0174	0.3666	0.0157	0.3299	0.0022	-0.0013	-0.0005	-0.6135	-0.2122			
51	0.02	-19.56	1.1348	0.0172	0.3754	0.0152	0.3308	0.0022	-0.0014	-0.0005	-0.6363	-0.2122			
52	0.01	-20.32	1.1825	0.0168	0.3507	0.0142	0.3304	0.0022	-0.0013	-0.0005	-0.6135	-0.2122			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	HX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
0	116	0.97	1.7	0.0	B2W0F12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.61	0.0508	-0.1111	-2.1450	-0.0916	-0.0170	0.0150	-2.1874		
2	0.02	19.24	0.0205	-0.0427	-2.1396	-0.0221	-0.0140	0.0136	-2.0829		
3	0.02	18.53	0.0112	-0.0267	-2.0431	-0.1442	-0.0150	0.0278	-2.3821		
4	0.02	17.70	0.0147	-0.0206	-1.8724	-0.3063	-0.0180	0.0525	-1.4000		
5	0.03	16.89	-0.0046	0.0464	-1.6967	-0.5473	-0.0140	0.0885	-1.8791		
6	0.02	16.09	-0.0076	-0.0084	-1.4797	-0.7610	-0.0100	0.1255	1.1000		
7	0.03	15.33	0.0082	-0.0095	-1.3202	-1.0163	-0.0130	0.1486	-1.1561		
8	0.02	14.56	-0.0030	0.0102	-1.1628	-1.2326	-0.0070	0.1772	-3.4000		
9	0.02	13.79	0.0036	-0.0060	-0.9930	-1.4775	-0.0060	0.2117	-1.6778		
10	0.03	13.00	0.0003	0.0116	-0.8276	-1.7350	0.0010	0.2453	3.6000		
11	0.03	12.24	0.0133	-0.0216	-0.6820	-1.9848	-0.0040	0.2873	-1.6256		
12	0.02	11.51	0.0294	-0.0991	-0.5386	-2.2735	-0.0020	0.2940	-3.3728		
13	0.02	10.72	0.0173	-0.0912	-0.3980	-2.5445	-0.0010	0.3242	-5.2728		
14	0.03	9.92	0.0361	-0.0963	-0.1878	-2.8957	0.0070	0.3545	-2.5286		
15	0.02	9.10	0.0300	-0.1130	-0.0173	-3.2504	0.0050	0.3844	-3.7607		
16	0.02	8.30	0.0323	-0.1332	0.1476	-3.6144	0.0070	0.4135	-4.1245		
17	0.02	7.47	0.0492	-0.2059	0.3031	-3.9428	0.0060	0.4206	-4.1846		
18	0.02	6.70	0.0363	-0.1788	0.4825	-4.3771	0.0060	0.4327	-4.9262		
19	0.02	5.88	0.0412	-0.1827	0.6224	-4.7319	0.0090	0.4423	-4.4340		
20	0.02	5.07	0.0549	-0.2148	0.7259	-5.0897	0.0070	0.4638	-3.9137		
21	0.02	4.24	0.0526	-0.2126	0.8916	-5.5257	0.0090	0.5016	-4.0426		
22	0.02	3.51	0.0514	-0.2339	1.0798	-5.9581	0.0090	0.5389	-4.5517		
23	0.02	2.72	0.0523	-0.2212	1.2039	-6.3309	0.0090	0.5764	-4.2298		
24	0.02	1.95	0.0705	-0.2617	1.3379	-6.6545	0.0060	0.5994	-3.7121		
25	0.02	1.15	0.0517	-0.2274	1.5083	-7.0620	0.0050	0.6307	-4.3931		
26	0.02	0.43	0.0493	-0.2150	1.6094	-7.4225	0.0060	0.6587	-4.3615		
27	0.01	-0.36	0.0675	-0.2765	1.7735	-7.7832	0.0080	0.6802	-4.0963		
28	0.02	-1.15	0.0723	-0.2812	1.8602	-8.1005	0.0060	0.7023	-3.8896		
29	0.01	-1.91	0.0602	-0.2702	2.0123	-8.4135	0.0070	0.7164	-4.4897		
30	0.01	-2.75	0.0475	-0.2585	2.1386	-8.7523	0.0060	0.7355	-5.4421		
31	0.01	-3.56	0.0629	-0.2790	2.2735	-9.1331	0.0070	0.7633	-4.4366		
32	0.01	-4.38	0.0544	-0.2661	2.4452	-9.4655	0.0100	0.7791	-4.8926		
33	0.01	-5.12	0.0623	-0.2812	2.5822	-9.6712	0.0100	0.7926	-4.5140		
34	0.02	-5.91	0.0604	-0.2765	2.6426	-9.9738	0.0110	0.8185	-4.5788		
35	0.01	-6.67	0.0775	-0.3075	2.7644	-10.0394	0.0160	0.8453	-3.9677		
36	0.01	-7.51	0.0796	-0.3224	2.7487	-9.9284	0.0230	0.8761	-4.0508		
37	0.01	-8.25	0.0741	-0.2927	2.8082	-9.6868	0.0130	0.8760	-3.9506		
38	0.02	-9.04	0.0592	-0.2778	2.7552	-9.1866	0.0030	0.8674	-4.0182		
39	0.02	-9.81	0.0531	-0.2303	2.8264	-9.2353	0.0100	0.8729	-4.3379		
40	0.02	-10.60	0.0244	-0.1431	2.9779	-9.3024	-0.0090	0.8893	-5.8672		
41	0.02	-11.33	0.0320	-0.1408	3.0368	-9.3649	-0.0130	0.8673	-4.4000		
42	0.01	-12.10	0.0499	-0.2378	3.1507	-9.4723	-0.0060	0.8538	-4.7667		
43	0.01	-12.86	0.0512	-0.2956	3.2520	-9.5461	-0.0020	0.8455	-5.7750		
44	0.01	-13.65	0.0607	-0.2759	3.3861	-9.6648	-0.0030	0.8393	-4.5466		
45	0.01	-14.48	0.0385	-0.2189	3.5446	-9.8728	-0.0070	0.8338	-5.0857		
46	0.01	-15.30	0.0499	-0.3108	3.6530	-9.9676	-0.0010	0.8416	-6.2297		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	116	0.97	1.7	0.0	B2NOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	-16.12	0.0460	-0.2554	3.7811	-10.2099	-0.0180	0.8434	-5.5522		
48	0.01	-16.89	0.0721	-0.3289	3.5684	-10.3131	0.0	0.8512	-4.5623		
49	0.02	-17.77	0.0558	-0.2921	4.1814	-10.6113	-0.0110	0.8574	-5.2351		
50	0.01	-18.61	0.0608	-0.3071	4.3378	-10.6294	-0.0030	0.8521	-5.0513		
51	0.02	-19.45	0.0584	-0.2497	4.5157	-10.6734	-0.0220	0.8387	-4.2767		
52	0.02	-20.19	0.0488	-0.2533	4.6292	-10.6323	-0.0310	0.8238	-5.1910		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	116	0.97	1.7	0.0	B2W0F12	0.0	20	0	20	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.61	-0.2943	-0.0196	-0.0647	0.0667	0.2198	0.0386	0.0007	0.0046	0.0181	0.1182
2	0.02	19.24	-0.2878	-0.0196	-0.0601	0.0682	0.2089	0.0331	0.0008	0.0037	0.0257	0.1127
3	0.02	18.53	-0.2703	-0.0188	-0.0542	0.0697	0.2004	0.0389	0.0006	0.0033	0.0167	0.0839
4	0.02	17.70	-0.2464	-0.0187	-0.0437	0.0759	0.1774	0.0328	0.0004	0.0052	0.0137	0.1594
5	0.03	16.89	-0.2012	-0.0172	-0.0263	0.0855	0.1309	0.0318	0.0003	0.0038	0.0094	0.1194
6	0.02	16.09	-0.1515	-0.0162	-0.0122	0.1072	0.0804	0.0294	0.0015	0.0005	0.0527	0.0169
7	0.03	15.33	-0.1065	-0.0156	0.0045	0.1469	-0.0424	0.0361	0.0012	0.0027	0.0332	0.0756
8	0.02	14.56	-0.0601	-0.0145	0.0164	0.2412	-0.2724	0.0240	0.0013	0.0006	0.0464	0.0225
9	0.02	13.79	-0.0166	-0.0141	0.0354	0.8523	-2.1306	0.0324	0.0008	0.0005	0.0247	0.0153
10	0.03	13.00	0.0234	-0.0142	0.0532	-0.6667	2.2734	0.0189	0.0014	-0.0031	0.0767	-0.1641
11	0.03	12.24	0.0709	-0.0140	0.0702	-0.1974	0.9905	0.0332	0.0011	0.0028	0.0331	0.0832
12	0.02	11.51	0.1035	-0.0133	0.0867	-0.1290	0.8376	0.0277	0.0007	0.0017	0.0253	0.0625
13	0.02	10.72	0.1580	-0.0141	0.1033	-0.0895	0.6541	0.0197	0.0012	-0.0007	0.0609	-0.0373
14	0.03	9.92	0.1971	-0.0143	0.1226	-0.0725	0.6219	0.0231	0.0016	-0.0034	0.0693	-0.1473
15	0.02	9.10	0.2609	-0.0155	0.1438	-0.0594	0.5513	0.0183	0.0013	-0.0011	0.0710	-0.0602
16	0.02	8.30	0.3066	-0.0158	0.1641	-0.0515	0.5350	0.0213	0.0014	-0.0021	0.0681	-0.0987
17	0.02	7.47	0.3698	-0.0169	0.1828	-0.0458	0.4943	0.0291	0.0014	0.0004	0.0481	0.0136
18	0.02	6.70	0.4345	-0.0186	0.2056	-0.0429	0.4731	0.0209	0.0011	0.0001	0.0550	0.0031
19	0.02	5.88	0.4963	-0.0198	0.2237	-0.0399	0.4507	0.0131	0.0011	-0.0025	0.0878	-0.1935
20	0.02	5.07	0.5464	-0.0207	0.2392	-0.0379	0.4377	0.0170	0.0011	-0.0009	0.0647	-0.0550
21	0.02	4.24	0.6044	-0.0219	0.2615	-0.0363	0.4326	0.0107	0.0012	-0.0042	0.1121	-0.3958
22	0.02	3.51	0.6683	-0.0226	0.2832	-0.0338	0.4237	0.0146	0.0009	-0.0027	0.0616	-0.1873
23	0.02	2.72	0.7300	-0.0235	0.2997	-0.0322	0.4106	0.0147	0.0010	-0.0030	0.0714	-0.2042
24	0.02	1.95	0.7630	-0.0242	0.3153	-0.0317	0.4133	0.0147	0.0010	-0.0030	0.0680	-0.2042
25	0.02	1.15	0.8328	-0.0241	0.3296	-0.0290	0.3958	0.0108	0.0011	-0.0043	0.1018	-0.3983
26	0.02	0.43	0.8988	-0.0246	0.3467	-0.0274	0.3857	0.0137	0.0010	-0.0046	0.0730	-0.3383
27	0.01	-0.36	0.9360	-0.0241	0.3603	-0.0257	0.3849	0.0093	0.0012	-0.0041	0.1290	-0.4410
28	0.02	-1.15	0.9993	-0.0236	0.3730	-0.0237	0.3732	0.0055	0.0015	-0.0062	0.2727	-1.1213
29	0.01	-1.91	1.0411	-0.0206	0.3855	-0.0198	0.3703	0.0045	0.0013	-0.0076	0.2999	-1.6890
30	0.01	-2.75	1.0916	-0.0194	0.3953	-0.0178	0.3622	0.0045	0.0012	-0.0076	0.2666	-1.6890
31	0.01	-3.56	1.1383	-0.0174	0.4064	-0.0153	0.3570	0.0047	0.0014	-0.0086	0.2478	-1.8370
32	0.01	-4.38	1.1841	-0.0135	0.4158	-0.0114	0.3511	0.0059	0.0015	-0.0077	0.2542	-1.3109
33	0.01	-5.12	1.2093	-0.0035	0.4118	-0.0029	0.3406	0.0045	0.0015	-0.0076	0.3444	-1.6890
34	0.02	-5.91	1.2516	0.0019	0.4153	0.0016	0.3319	0.0045	0.0015	-0.0076	0.3333	-1.6890
35	0.01	-6.67	1.2752	0.0098	0.4192	0.0077	0.3287	0.0060	0.0014	-0.0078	0.2333	-1.3001
36	0.01	-7.51	1.2634	0.0189	0.4090	0.0150	0.3237	0.0184	-0.0012	-0.0046	-0.0652	-0.2483
37	0.01	-8.25	1.2082	0.0190	0.3777	0.0158	0.3126	0.0099	0.0016	-0.0067	0.1616	-0.6769
38	0.02	-9.04	1.1251	0.0158	0.3469	0.0140	0.3083	0.0059	0.0019	-0.0079	0.3220	-1.3448
39	0.02	-9.81	1.1394	0.0157	0.3522	0.0138	0.3091	0.0097	0.0015	-0.0059	0.1598	-0.6049
40	0.02	-10.60	1.1249	0.0131	0.3471	0.0116	0.3086	0.0055	0.0028	-0.0059	5.5990	-19.4668
41	0.02	-11.33	1.1273	0.0109	0.3488	0.0097	0.3094	0.0139	0.0022	-0.0060	0.1618	-0.4294
42	0.01	-12.10	1.1372	0.0100	0.3523	0.0088	0.3098	0.0113	0.0024	-0.0069	0.2124	-0.6137
43	0.01	-12.86	1.1677	0.0078	0.3572	0.0067	0.3059	0.0215	0.0024	-0.0022	0.1116	-0.1040
44	0.01	-13.65	1.1433	0.0077	0.3543	0.0068	0.3099	0.0088	0.0038	-0.0095	0.4317	-1.0759
45	0.01	-14.48	1.1859	0.0066	0.3645	0.0056	0.3073	0.0133	0.0039	-0.0046	0.2969	-0.3435
46	0.01	-15.30	1.2078	0.0059	0.3691	0.0049	0.3056	0.0158	0.0033	-0.0027	0.2088	-0.1731

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		116	0.97	1.7	0.0	B2W0F12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	-16.12	1.2210	0.0051	0.3742	0.0042	0.3064	0.0195	-0.0004	0.0025	-0.0205	0.1281	
48	0.01	-16.89	1.2596	0.0049	0.3831	0.0039	0.3042	0.0191	0.0013	-0.0032	0.0681	-0.1694	
49	0.02	-17.77	1.2900	0.0037	0.3929	0.0029	0.3046	0.0188	0.0016	-0.0021	0.0878	-0.1136	
50	0.01	-18.61	1.2929	0.0041	0.3966	0.0032	0.3068	0.0258	-0.0003	-0.0004	-0.0116	-0.0156	
51	0.02	-19.45	1.2892	0.0032	0.3951	0.0025	0.3065	0.0254	0.0035	-0.0010	0.1397	-0.0408	
52	0.02	-20.19	1.2894	0.0035	0.3949	0.0027	0.3063	0.0323	0.0014	0.0014	0.0449	0.0422	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		116	0.97	1.7	0.0	BZW012	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CM3	XLPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4		
1	0.02	19.61	-0.2464	-0.0187	-0.0800	0.0761	0.3247	-0.0062	0.0038	0.0012	-0.6128	-0.1990		
2	0.02	19.24	-0.2458	-0.0192	-0.0815	0.0781	0.3316	-0.0019	0.0011	0.0004	-0.6052	-0.1951		
3	0.02	18.53	-0.2255	-0.0188	-0.0722	0.0836	0.3204	-0.0031	0.0019	0.0007	-0.6128	-0.2152		
4	0.02	17.70	-0.1892	-0.0182	-0.0593	0.0962	0.3137	-0.0060	0.0037	0.0012	-0.6166	-0.2001		
5	0.03	16.89	-0.1527	-0.0172	-0.0466	0.1129	0.3051	0.0081	-0.0050	-0.0018	-0.6172	-0.2223		
6	0.02	16.09	-0.1064	-0.0169	-0.0253	0.1593	0.2383	0.0031	-0.0014	-0.0007	-0.6128	-0.2152		
7	0.03	15.33	-0.0632	-0.0158	-0.0120	0.2500	0.1392	0.0049	-0.0030	-0.0011	-0.6223	-0.2178		
8	0.02	14.56	-0.0209	-0.0156	0.0029	0.7463	-0.1405	0.0081	-0.0050	-0.0018	-0.6172	-0.2223		
9	0.02	13.79	0.0245	-0.0149	0.0247	-0.6081	1.0067	0.0108	-0.0066	-0.0024	-0.6156	-0.2223		
10	0.03	13.00	0.0574	-0.0148	0.0430	-0.2578	0.7496	0.0106	-0.0065	-0.0023	-0.6178	-0.2140		
11	0.03	12.24	0.0979	-0.0141	0.0603	-0.1440	0.6162	0.0118	-0.0072	-0.0026	-0.6143	-0.2176		
12	0.02	11.51	0.1431	-0.0139	0.0812	-0.0575	0.5673	0.0102	-0.0062	-0.0022	-0.6126	-0.2158		
13	0.02	10.72	0.1955	-0.0140	0.1018	-0.0716	0.5209	0.0112	-0.0069	-0.0025	-0.6160	-0.2204		
14	0.03	9.92	0.2387	-0.0139	0.1202	-0.0582	0.5037	0.0130	-0.0080	-0.0029	-0.6153	-0.2206		
15	0.02	9.10	0.2795	-0.0141	0.1419	-0.0504	0.5077	0.0117	-0.0072	-0.0025	-0.6153	-0.2138		
16	0.02	8.30	0.3274	-0.0148	0.1637	-0.0453	0.4999	0.0121	-0.0074	-0.0027	-0.6156	-0.2205		
17	0.02	7.47	0.3926	-0.0151	0.1835	-0.0386	0.4674	0.0113	-0.0069	-0.0024	-0.6149	-0.2159		
18	0.02	6.70	0.4298	-0.0160	0.2093	-0.0372	0.4870	0.0076	-0.0047	-0.0017	-0.6183	-0.2194		
19	0.02	5.88	0.4966	-0.0175	0.2302	-0.0352	0.4635	0.0074	-0.0045	-0.0016	-0.6148	-0.2208		
20	0.02	5.07	0.5305	-0.0179	0.2544	-0.0338	0.4795	0.0074	-0.0045	-0.0016	-0.6148	-0.2208		
21	0.02	4.24	0.5993	-0.0188	0.2747	-0.0314	0.4583	0.0056	-0.0034	-0.0012	-0.6070	-0.2204		
22	0.02	3.51	0.6498	-0.0186	0.2944	-0.0286	0.4531	0.0043	-0.0026	-0.0010	-0.6162	-0.2249		
23	0.02	2.72	0.7024	-0.0192	0.3158	-0.0274	0.4447	0.0039	-0.0024	-0.0008	-0.6153	-0.2052		
24	0.02	1.95	0.7584	-0.0184	0.3325	-0.0243	0.4389	0.0037	-0.0023	-0.0008	-0.6215	-0.2073		
25	0.02	1.15	0.8020	-0.0182	0.3518	-0.0227	0.4387	0.0031	-0.0019	-0.0007	-0.6128	-0.2152		
26	0.02	0.43	0.8628	-0.0174	0.3664	-0.0202	0.4246	0.0033	-0.0020	-0.0007	-0.6211	-0.2122		
27	0.01	-0.36	0.9164	-0.0163	0.3809	-0.0178	0.4156	0.0034	-0.0024	-0.0008	-0.6153	-0.2052		
28	0.02	-1.15	0.9517	-0.0150	0.3967	-0.0158	0.4168	0.0037	-0.0022	-0.0008	-0.6080	-0.2073		
29	0.01	-1.91	1.0149	-0.0121	0.4074	-0.0120	0.4014	0.0040	-0.0024	-0.0009	-0.6124	-0.2168		
30	0.01	-2.75	1.0555	-0.0102	0.4223	-0.0097	0.4001	0.0044	-0.0027	-0.0009	-0.6135	-0.2122		
31	0.01	-3.56	1.1136	-0.0077	0.4313	-0.0069	0.3873	0.0034	-0.0020	-0.0008	-0.6028	-0.2256		
32	0.01	-4.38	1.1581	-0.0030	0.4369	-0.0026	0.3772	0.0027	-0.0016	-0.0006	-0.6110	-0.2223		
33	0.01	-5.12	1.1825	0.0084	0.4309	0.0071	0.3644	0.0024	-0.0015	-0.0005	-0.6249	-0.2085		
34	0.02	-5.91	1.2023	0.0150	0.4326	0.0125	0.3600	0.0022	-0.0013	-0.0005	-0.6135	-0.2122		
35	0.01	-6.67	1.2228	0.0256	0.4264	0.0210	0.3487	0.0021	-0.0012	-0.0005	-0.5951	-0.2382		
36	0.01	-7.51	1.2121	0.0299	0.4084	0.0247	0.3369	0.0025	-0.0015	-0.0006	-0.6199	-0.2268		
37	0.01	-8.25	1.1724	0.0281	0.3920	0.0240	0.3343	0.0019	-0.0011	-0.0005	-0.6052	-0.2457		
38	0.02	-9.04	1.1214	0.0249	0.3678	0.0222	0.3280	0.0016	-0.0010	-0.0004	-0.6249	-0.2293		
39	0.02	-9.81	1.1122	0.0234	0.3582	0.0211	0.3221	0.0016	-0.0010	-0.0004	-0.6249	-0.2293		
40	0.02	-10.60	1.1363	0.0225	0.3665	0.0198	0.3226	0.0018	-0.0011	-0.0004	-0.6110	-0.2223		
41	0.02	-11.33	1.1203	0.0206	0.3615	0.0184	0.3227	0.0025	-0.0015	-0.0006	-0.6199	-0.2268		
42	0.01	-12.10	1.1501	0.0200	0.3657	0.0174	0.3180	0.0016	-0.0010	-0.0004	-0.6249	-0.2293		
43	0.01	-12.86	1.1317	0.0185	0.3641	0.0164	0.3217	0.0023	-0.0014	-0.0005	-0.6303	-0.2320		
44	0.01	-13.65	1.1545	0.0174	0.3695	0.0151	0.3201	0.0016	-0.0009	-0.0004	-0.5936	-0.2293		
45	0.01	-14.48	1.1560	0.0170	0.3760	0.0147	0.3253	0.0021	-0.0012	-0.0005	-0.5951	-0.2382		
46	0.01	-15.30	1.1741	0.0157	0.3841	0.0134	0.3272	0.0017	-0.0010	-0.0003	-0.6175	-0.1962		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		116	0.97	1.7		0.0	B2WOF12	0.0	20	0	20	U	FIXED
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4	
47	0.02	-16.12	1.2085	0.0152	0.3941	0.0126	0.3261	0.0024	-0.0014	-0.0005	-0.6041	-0.2085	
48	0.01	-16.89	1.2117	0.0147	0.3945	0.0121	0.3255	0.0019	-0.0011	-0.0005	-0.6052	-0.2457	
49	0.02	-17.77	1.2468	0.0151	0.4035	0.0121	0.3237	0.0016	-0.0010	-0.0004	-0.6249	-0.2293	
50	0.01	-18.61	1.2614	0.0148	0.4102	0.0118	0.3252	0.0016	-0.0009	-0.0004	-0.5936	-0.2293	
51	0.02	-19.45	1.2812	0.0173	0.4155	0.0135	0.3243	0.0012	-0.0007	-0.0003	-0.6249	-0.2501	
52	0.02	-20.19	1.2985	0.0193	0.4183	0.0149	0.3221	0.0016	-0.0010	-0.0004	-0.6249	-0.2293	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	117	1.01	1.7	0.0	B2NOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.03	19.59	0.0248	-0.0357	-2.1784	-0.3718	-0.0190	0.0810	-1.4403		
2	0.03	19.34	0.0075	0.0415	-2.1294	-0.4324	-0.0170	0.0926	5.5333		
3	0.03	18.58	0.0172	0.0269	-2.0165	-0.4914	-0.0140	0.1075	1.5651		
4	0.02	17.80	0.0289	-0.0914	-1.6575	-0.7101	-0.0230	0.1315	-3.1647		
5	0.03	16.92	-0.0006	0.0828	-1.7060	-0.8422	-0.0180	0.1540	-138.0666		
6	0.03	16.18	-0.0063	0.1188	-1.4984	-1.0678	-0.0130	0.1882	-18.8603		
7	0.03	15.37	0.0339	-0.0555	-1.3270	-1.2628	-0.0220	0.2080	-1.6360		
8	0.02	14.66	0.0057	0.0080	-1.1341	-1.4839	-0.0100	0.2430	1.4070		
9	0.03	13.84	0.0163	0.0254	-0.9980	-1.6184	-0.0080	0.2601	1.3869		
10	0.03	13.07	0.0273	-0.0632	-0.8754	-1.8461	-0.0130	0.2838	-2.3157		
11	0.02	12.32	0.0204	-0.1275	-0.6865	-2.0615	-0.0110	0.3118	-6.2529		
12	0.03	11.56	0.0169	-0.0147	-0.5576	-2.2679	-0.0020	0.3310	-0.8675		
13	0.02	10.76	0.0297	-0.0676	-0.4365	-2.4594	0.0030	0.3393	-2.2754		
14	0.02	9.98	0.0355	-0.1317	-0.2254	-2.8171	0.0010	0.3616	-3.7099		
15	0.02	9.22	0.0452	-0.1263	-0.0691	-3.1728	0.0020	0.3909	-2.7938		
16	0.02	8.36	0.0422	-0.1251	0.0532	-3.4840	0.0090	0.4210	-2.9640		
17	0.02	7.59	0.0391	-0.1707	0.2742	-3.8904	0.0080	0.4483	-4.3667		
18	0.03	6.79	0.0517	-0.1444	0.3768	-4.2110	0.0110	0.4715	-2.7926		
19	0.02	6.00	0.0510	-0.1814	0.5073	-4.5088	0.0090	0.4978	-3.5569		
20	0.02	5.17	0.0652	-0.2292	0.7328	-4.9604	0.0080	0.5345	-3.5106		
21	0.02	4.35	0.0506	-0.2128	0.8055	-5.2662	0.0060	0.5598	-4.2063		
22	0.02	3.57	0.0738	-0.2673	0.9781	-5.6577	0.0040	0.5894	-3.6222		
23	0.02	2.84	0.0708	-0.2631	1.1827	-6.0563	0.0060	0.6219	-3.7164		
24	0.02	2.04	0.0580	-0.2422	1.2714	-6.3434	0.0050	0.6530	-4.1759		
25	0.02	1.29	0.0674	-0.2783	1.4343	-6.8154	0.0050	0.6855	-4.1300		
26	0.01	0.51	0.0669	-0.2786	1.4991	-7.0701	0.0080	0.7098	-4.1653		
27	0.02	-0.21	0.0649	-0.2478	1.6943	-7.4843	0.0050	0.7415	-3.8191		
28	0.02	-1.07	0.0595	-0.2433	1.8265	-7.8643	0.0050	0.7630	-4.0891		
29	0.01	-1.83	0.0620	-0.2668	1.9742	-8.1592	0.0060	0.7844	-4.3032		
30	0.01	-2.65	0.0592	-0.2608	2.0008	-8.4984	0.0080	0.8046	-4.4068		
31	0.02	-3.44	0.0608	-0.2481	2.2106	-8.8001	0.0080	0.8274	-4.0809		
32	0.02	-4.24	0.0833	-0.3016	2.3189	-9.1257	0.0050	0.8446	-3.6209		
33	0.02	-5.03	0.0656	-0.2518	2.5392	-9.5540	0.0030	0.8597	-3.8390		
34	0.01	-5.79	0.0494	-0.2511	2.5724	-9.7925	0.0040	0.8880	-5.0842		
35	0.02	-6.60	0.0630	-0.2572	2.7417	-10.1276	0.0050	0.9067	-4.0825		
36	0.02	-7.39	0.0662	-0.2846	2.8892	-10.3421	0.0070	0.9206	-4.3003		
37	0.02	-8.19	0.0752	-0.3012	3.0118	-10.5287	0.0120	0.9226	-4.0064		
38	0.02	-8.96	0.0507	-0.2289	3.0487	-10.5934	0.0040	0.9373	-4.5164		
39	0.02	-9.77	0.0788	-0.3223	3.1442	-10.5941	0.0120	0.9531	-4.0904		
40	0.02	-10.51	0.0630	-0.2342	3.2398	-10.4929	0.0020	0.9438	-3.7175		
41	0.02	-11.28	0.0649	-0.2518	3.2888	-10.4285	-0.0090	0.9349	-3.8807		
42	0.02	-12.02	0.0705	-0.2557	3.3544	-10.3574	-0.0050	0.9366	-3.6270		
43	0.02	-12.83	0.0506	-0.2108	3.4693	-10.3794	-0.0140	0.9291	-4.1668		
44	0.01	-13.57	0.0517	-0.2423	3.5354	-10.3789	-0.0060	0.9247	-4.0882		
45	0.02	-14.41	0.0632	-0.2524	3.6996	-10.6267	-0.0070	0.9314	-3.9949		
46	0.01	-15.26	0.0505	-0.2977	3.8175	-10.6878	-0.0060	0.9336	-5.8950		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	117	1.01	1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	-16.07	0.0568	-0.2505	4.0054	-10.9188	-0.0060	0.9400	-4.4106		
48	0.02	-16.89	0.0574	-0.2423	4.1685	-10.9962	-0.0100	0.9433	-4.2223		
49	0.02	-17.72	0.0412	-0.1857	4.2430	-11.1906	-0.0040	0.9364	-4.5068		
50	0.02	-18.56	0.0574	-0.2523	4.4217	-11.2537	-0.0180	0.9230	-4.3965		
51	0.01	-19.39	0.0556	-0.3108	4.6101	-11.2855	-0.0170	0.9275	-5.5906		
52	0.01	-20.13	0.0595	-0.3273	4.8245	-11.2047	-0.0240	0.9074	-5.5008		

MARTIN MISSILE TAILS EFFECTS DATA

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TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	117	1.01	1.7	0.0	82NOF12	0.0	20	0	20	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.03	19.59	-0.3055	-0.0191	-0.0557	0.0627	0.1824	0.0560	0.0008	0.0080	0.0152	0.1421
2	0.03	19.34	-0.3061	-0.0195	-0.0538	0.0638	0.1758	0.0471	0.0012	0.0052	0.0255	0.1103
3	0.03	18.58	-0.2768	-0.0185	-0.0408	0.0668	0.1472	0.0476	0.0006	0.0034	0.0137	0.0706
4	0.02	17.80	-0.2464	-0.0183	-0.0337	0.0743	0.1368	0.0489	0.0012	0.0033	0.0245	0.0674
5	0.03	16.92	-0.2173	-0.0173	-0.0200	0.0796	0.0921	0.0489	0.0014	0.0031	0.0296	0.0633
6	0.03	16.18	-0.1639	-0.0164	-0.0035	0.1000	0.0214	0.0439	0.0011	0.0014	0.0251	0.0325
7	0.03	15.37	-0.1268	-0.0155	0.0072	0.1226	-0.0572	0.0447	0.0012	0.0036	0.0280	0.0804
8	0.02	14.66	-0.0872	-0.0147	0.0215	0.1691	-0.2471	0.0427	0.0011	0.0008	0.0269	0.0194
9	0.03	13.84	-0.0488	-0.0144	0.0372	0.2961	-0.7631	0.0403	0.0015	-0.0010	0.0372	-0.0241
10	0.03	13.07	-0.0135	-0.0140	0.0514	1.0369	-3.8075	0.0398	0.0009	0.0016	0.0239	0.0392
11	0.02	12.32	0.0455	-0.0135	0.0684	-0.2977	1.5046	0.0433	0.0009	0.0038	0.0219	0.0884
12	0.03	11.56	0.0829	-0.0137	0.0867	-0.1652	1.0461	0.0336	0.0014	-0.0012	0.0417	-0.0358
13	0.02	10.76	0.1434	-0.0135	0.0995	-0.0941	0.6937	0.0353	0.0014	-0.0023	0.0411	-0.0662
14	0.02	9.98	0.1835	-0.0141	0.1221	-0.0768	0.6656	0.0398	0.0013	0.0018	0.0327	0.0443
15	0.02	9.22	0.2213	-0.0143	0.1407	-0.0448	0.6360	0.0378	0.0009	-0.0008	0.0251	-0.0213
16	0.02	8.36	0.2680	-0.0161	0.1631	-0.0603	0.6086	0.0341	0.0016	-0.0028	0.0469	-0.0832
17	0.02	7.59	0.3230	-0.0172	0.1821	-0.0532	0.5638	0.0312	0.0018	-0.0018	0.0593	-0.0578
18	0.03	6.79	0.3854	-0.0184	0.1981	-0.0477	0.5140	0.0304	0.0013	-0.0042	0.0428	-0.1372
19	0.02	6.00	0.4319	-0.0201	0.2211	-0.0466	0.5119	0.0314	0.0010	-0.0022	0.0334	-0.0712
20	0.02	5.17	0.4974	-0.0212	0.2394	-0.0427	0.4814	0.0312	0.0007	-0.0012	0.0240	-0.0386
21	0.02	4.35	0.5379	-0.0226	0.2580	-0.0420	0.4797	0.0300	0.0008	-0.0018	0.0283	-0.0601
22	0.02	3.57	0.5995	-0.0231	0.2729	-0.0386	0.4553	0.0260	0.0005	-0.0021	0.0192	-0.0822
23	0.02	2.84	0.6593	-0.0246	0.2948	-0.0374	0.4471	0.0275	0.0008	-0.0032	0.0309	-0.1177
24	0.02	2.04	0.7112	-0.0251	0.3101	-0.0353	0.4360	0.0197	0.0009	-0.0042	0.0457	-0.2150
25	0.02	1.29	0.7766	-0.0259	0.3254	-0.0334	0.4191	0.0249	0.0009	-0.0038	0.0361	-0.1527
26	0.01	0.51	0.8369	-0.0262	0.3405	-0.0313	0.4068	0.0249	0.0011	-0.0038	0.0442	-0.1527
27	0.02	-0.21	0.8548	-0.0269	0.3561	-0.0301	0.3979	0.0178	0.0008	-0.0019	0.0449	-0.1050
28	0.02	-1.07	0.9360	-0.0265	0.3719	-0.0283	0.3973	0.0182	0.0010	-0.0040	0.0577	-0.2217
29	0.01	-1.83	0.9868	-0.0263	0.3792	-0.0267	0.3843	0.0184	0.0012	-0.0050	0.0652	-0.2700
30	0.01	-2.65	1.0393	-0.0250	0.3941	-0.0240	0.3792	0.0122	0.0011	-0.0067	0.0901	-0.5520
31	0.02	-3.44	1.0937	-0.0237	0.4023	-0.0217	0.3679	0.0085	0.0012	-0.0082	0.1412	-0.9609
32	0.02	-4.24	1.1370	-0.0223	0.4125	-0.0197	0.3628	0.0172	0.0007	-0.0050	0.0436	-0.2889
33	0.02	-5.03	1.1939	-0.0201	0.4254	-0.0168	0.3567	0.0142	0.0012	-0.0094	0.0845	-0.6597
34	0.01	-5.79	1.2415	-0.0185	0.4337	-0.0149	0.3493	0.0126	0.0011	-0.0082	0.0913	-0.6509
35	0.02	-6.60	1.2788	-0.0156	0.4415	-0.0122	0.3453	0.0124	0.0007	-0.0073	0.0605	-0.5861
36	0.02	-7.39	1.3026	-0.0108	0.4363	-0.0060	0.3350	0.0139	0.0008	-0.0077	0.0575	-0.5517
37	0.02	-8.19	1.3305	-0.0019	0.4358	-0.0014	0.3276	0.0074	0.0012	-0.0088	0.1689	-1.1938
38	0.02	-8.96	1.3291	0.0085	0.4323	0.0064	0.3252	0.0126	0.0014	-0.0082	0.1151	-0.6509
39	0.02	-9.77	1.3605	0.0107	0.4298	0.0079	0.3159	0.0179	-0.0003	-0.0067	-0.0195	-0.3763
40	0.02	-10.51	1.3134	0.0112	0.4143	0.0086	0.3155	0.0129	0.0031	-0.0104	0.2403	-0.8063
41	0.02	-11.28	1.2933	0.0092	0.4028	0.0071	0.3115	0.0112	0.0016	-0.0083	0.1428	-0.7382
42	0.02	-12.02	1.2881	0.0069	0.3583	0.0054	0.3092	0.0186	0.0017	-0.0050	0.0914	-0.2689
43	0.02	-12.83	1.2712	0.0041	0.3929	0.0032	0.3091	0.0151	0.0019	-0.0073	0.1258	-0.4814
44	0.01	-13.57	1.2648	0.0034	0.3912	0.0027	0.3093	0.0189	0.0021	-0.0064	0.1111	-0.3387
45	0.02	-14.41	1.2856	0.0018	0.3986	0.0014	0.3100	0.0139	0.0023	-0.0083	0.1654	-0.5948
46	0.01	-15.26	1.3226	0.0013	0.4065	0.0010	0.3074	0.0199	0.0013	-0.0043	0.0678	-0.2145

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		117		1.01 1.7		0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	-16.07	1.3445	0.0009	0.4131	0.0007	0.3073	0.0159	0.0021	-0.0051	0.1321	-0.3209	
48	0.02	-16.89	1.3575	0.0002	0.4167	0.0001	0.3070	0.0173	0.0015	-0.0048	0.0867	-0.2795	
49	0.02	-17.72	1.3867	-0.0001	0.4190	-0.0001	0.3021	0.0134	0.0006	-0.0050	0.0448	-0.3757	
50	0.02	-18.56	1.3903	-0.0002	0.4251	-0.0001	0.3057	0.0294	-0.0012	0.0038	-0.0408	0.1291	
51	0.01	-19.39	1.4081	0.0000	0.4277	0.0000	0.3037	0.0249	-0.0007	-0.0005	-0.0301	-0.0202	
52	0.01	-20.13	1.4117	-0.0006	0.4272	-0.0005	0.3026	0.0334	0.0	0.0035	0.0	0.1057	

MARTIA MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		117		1.01 1.7		0.0	82WPF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	0.03	19.59	-0.2225	-0.0171	-0.0842	0.0768	0.3786	-0.0027	0.0017	0.0005	-0.6295	-0.1853	
2	0.03	19.34	-0.2188	-0.0168	-0.0847	0.0768	0.3871	0.0006	-0.0003	-0.0001	-0.5832	-0.1668	
3	0.03	18.58	-0.2074	-0.0166	-0.0738	0.0803	0.3559	0.0049	-0.0030	-0.0011	-0.6223	-0.2178	
4	0.02	17.80	-0.1804	-0.0159	-0.0601	0.0884	0.3332	0.0052	-0.0032	-0.0012	-0.6153	-0.2245	
5	0.03	16.92	-0.1349	-0.0158	-0.0433	0.1171	0.3214	0.0011	-0.0007	-0.0002	-0.6363	-0.2122	
6	0.03	16.18	-0.1044	-0.0152	-0.0301	0.1456	0.2882	0.0110	-0.0067	-0.0024	-0.6135	-0.2213	
7	0.03	15.37	-0.0465	-0.0146	-0.0109	0.3139	0.2343	0.0032	-0.0019	-0.0007	-0.6093	-0.2293	
8	0.02	14.66	-0.0014	-0.0141	0.0000	10.0696	-0.0239	0.0076	-0.0047	-0.0017	-0.6183	-0.2194	
9	0.03	13.84	0.0136	-0.0133	0.0166	-0.9778	1.2229	0.0107	-0.0065	-0.0023	-0.6120	-0.2182	
10	0.03	13.07	0.0679	-0.0130	0.0346	-0.1914	0.5099	0.0094	-0.0058	-0.0021	-0.6169	-0.2200	
11	0.02	12.32	0.1073	-0.0126	0.0556	-0.1174	0.5187	0.0079	-0.0048	-0.0018	-0.6138	-0.2237	
12	0.03	11.56	0.1413	-0.0127	0.0740	-0.0899	0.5236	0.0124	-0.0076	-0.0028	-0.6128	-0.2232	
13	0.02	10.76	0.1889	-0.0125	0.0929	-0.0662	0.4920	0.0118	-0.0072	-0.0026	-0.6143	-0.2176	
14	0.02	9.98	0.2262	-0.0130	0.1125	-0.0577	0.4972	0.0122	-0.0075	-0.0026	-0.6146	-0.2160	
15	0.02	9.22	0.2820	-0.0135	0.1353	-0.0478	0.4796	0.0146	-0.0090	-0.0031	-0.6163	-0.2147	
16	0.02	8.36	0.3261	-0.0141	0.1540	-0.0434	0.4721	0.0116	-0.0071	-0.0025	-0.6163	-0.2185	
17	0.02	7.59	0.3763	-0.0149	0.1747	-0.0397	0.4642	0.0101	-0.0062	-0.0022	-0.6138	-0.2212	
18	0.03	6.79	0.4246	-0.0157	0.1979	-0.0371	0.4660	0.0092	-0.0056	-0.0020	-0.6140	-0.2211	
19	0.02	6.00	0.4749	-0.0168	0.2176	-0.0354	0.4587	0.0079	-0.0048	-0.0018	-0.6138	-0.2237	
20	0.02	5.17	0.5306	-0.0178	0.2423	-0.0335	0.4566	0.0068	-0.0042	-0.0014	-0.6175	-0.2109	
21	0.02	4.35	0.5918	-0.0192	0.2602	-0.0324	0.4397	0.0067	-0.0041	-0.0015	-0.6143	-0.2190	
22	0.02	3.57	0.6497	-0.0192	0.2831	-0.0295	0.4357	0.0056	-0.0034	-0.0012	-0.6160	-0.2204	
23	0.02	2.84	0.6977	-0.0193	0.3010	-0.0277	0.4314	0.0042	-0.0025	-0.0009	-0.6070	-0.2144	
24	0.02	2.04	0.7453	-0.0200	0.3196	-0.0268	0.4289	0.0037	-0.0023	-0.0008	-0.6215	-0.2073	
25	0.02	1.24	0.7920	-0.0194	0.3401	-0.0245	0.4294	0.0033	-0.0020	-0.0007	-0.6060	-0.2122	
26	0.01	0.51	0.8505	-0.0189	0.3542	-0.0223	0.4164	0.0034	-0.0021	-0.0008	-0.6175	-0.2256	
27	0.02	-0.21	0.9054	-0.0183	0.3710	-0.0203	0.4097	0.0031	-0.0019	-0.0007	-0.6289	-0.2152	
28	0.02	-1.07	0.9490	-0.0181	0.3847	-0.0191	0.4054	0.0029	-0.0018	-0.0006	-0.6206	-0.2185	
29	0.01	-1.83	0.9973	-0.0173	0.3969	-0.0173	0.3980	0.0031	-0.0019	-0.0007	-0.6289	-0.2152	
30	0.01	-2.65	1.0486	-0.0157	0.4105	-0.0150	0.3915	0.0029	-0.0018	-0.0006	-0.6206	-0.2185	
31	0.02	-3.44	1.0874	-0.0146	0.4217	-0.0135	0.3878	0.0039	-0.0024	-0.0008	-0.6153	-0.2052	
32	0.02	-4.24	1.1502	-0.0110	0.4341	-0.0096	0.3774	0.0033	-0.0020	-0.0007	-0.6211	-0.2122	
33	0.02	-5.03	1.1998	-0.0096	0.4457	-0.0080	0.3715	0.0024	-0.0014	-0.0005	-0.6041	-0.2085	
34	0.01	-5.79	1.2337	-0.0075	0.4542	-0.0061	0.3601	0.0015	-0.0007	-0.0003	-0.6332	-0.2001	
35	0.02	-6.60	1.2796	-0.0076	0.4600	-0.0029	0.3595	0.0017	-0.0010	-0.0003	-0.6175	-0.1962	
36	0.02	-7.39	1.3019	0.0046	0.4537	0.0036	0.3485	0.0015	-0.0009	-0.0003	-0.6332	-0.2001	
37	0.02	-8.14	1.3120	0.0145	0.4503	0.0110	0.3437	0.0015	-0.0009	-0.0003	-0.6332	-0.2001	
38	0.02	-8.96	1.3314	0.0207	0.4450	0.0156	0.3343	0.0020	-0.0012	-0.0004	-0.6249	-0.2168	
39	0.02	-9.77	1.3296	0.0217	0.4385	0.0163	0.3298	0.0014	-0.0009	-0.0003	-0.6427	-0.2382	
40	0.02	-10.51	1.3261	0.0223	0.4284	0.0168	0.3230	0.0012	-0.0007	-0.0003	-0.6249	-0.2501	
41	0.02	-11.28	1.3069	0.0212	0.4230	0.0163	0.3237	0.0014	-0.0008	-0.0003	-0.6070	-0.2382	
42	0.02	-12.02	1.2882	0.0171	0.4126	0.0133	0.3203	0.0010	-0.0006	-0.0003	-0.5999	-0.2668	
43	0.02	-12.83	1.2770	0.0148	0.4146	0.0124	0.3255	0.0009	-0.0005	-0.0002	-0.6110	-0.2773	
44	0.01	-13.57	1.2757	0.0138	0.4108	0.0108	0.3200	0.0014	-0.0008	-0.0003	-0.6070	-0.2382	
45	0.02	-14.41	1.3111	0.0136	0.4202	0.0104	0.3205	0.0011	-0.0007	-0.0002	-0.6363	-0.2422	
46	0.01	-15.26	1.3026	0.0123	0.4225	0.0095	0.3244	0.0012	-0.0007	-0.0003	-0.6249	-0.2501	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6		117	1.01	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	-16.07	1.3446	0.0119	0.4325	0.0089	0.3217	0.0006	-0.0003	-0.0001	-0.5832	-0.1668
48	0.02	-16.89	1.3507	0.0119	0.4412	0.0088	0.3266	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
49	0.02	-17.72	1.3616	0.0112	0.4425	0.0083	0.3250	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
50	0.02	-18.56	1.3722	0.0126	0.4466	0.0092	0.3254	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
51	0.01	-19.39	1.4023	0.0141	0.4507	0.0101	0.3214	0.0020	-0.0012	-0.0004	-0.5999	-0.2168
52	0.01	-20.13	1.4036	0.0164	0.4497	0.0117	0.3204	0.0010	-0.0006	-0.0003	-0.5999	-0.2668

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.18	1.05	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.50	0.0223	-0.1112	-2.2868	-0.0591	-0.0160	0.1114	-4.9874		
2	0.02	19.52	0.0592	-0.1969	-2.2402	0.0477	-0.0180	0.1119	-3.3257		
3	0.02	19.20	0.0381	-0.1453	-2.1683	-0.0929	-0.0160	0.1299	-3.8147		
4	0.02	18.45	0.0420	-0.1698	-2.1104	-0.1820	-0.0180	0.1270	-4.0429		
5	0.03	17.66	0.0299	-0.0174	-1.9327	-0.3388	-0.0080	0.1632	-0.5973		
6	0.04	16.85	-0.0787	0.3591	-1.7475	-0.5016	0.0110	0.1796	-4.5639		
7	0.03	16.05	0.0126	0.0084	-1.5874	-0.7923	-0.0120	0.2053	0.6635		
8	0.02	15.31	0.0138	-0.0743	-1.3945	-0.9773	-0.0130	0.2404	-5.3855		
9	0.03	14.53	0.0061	0.0215	-1.2343	-1.1645	-0.0070	0.2608	3.5180		
10	0.02	13.76	0.0332	-0.0585	-1.1019	-1.3890	-0.0070	0.2888	-1.7614		
11	0.02	12.97	0.0035	-0.0499	-0.8672	-1.7026	-0.0020	0.3295	-14.2571		
12	0.02	12.23	0.0161	-0.0565	-0.6808	-1.9405	-0.0040	0.3578	-3.5118		
13	0.03	11.45	0.0136	-0.0050	-0.5068	-2.2440	0.0030	0.3844	-0.3706		
14	0.02	10.67	0.0375	-0.0845	-0.3284	-2.5409	-0.0040	0.4071	-2.2533		
15	0.02	9.83	0.0362	-0.0917	-0.2414	-2.8317	0.0040	0.4349	-2.5326		
16	0.03	9.07	0.0309	-0.0862	-0.0526	-3.1599	0.0060	0.4587	-2.7916		
17	0.02	8.28	0.0182	-0.0625	0.0612	-3.4932	0.0100	0.4782	-3.4330		
18	0.02	7.46	0.0411	-0.1855	0.2303	-3.8539	0.0080	0.5004	-4.5144		
19	0.02	6.70	0.0411	-0.1475	0.4285	-4.2225	0.0090	0.5234	-3.5898		
20	0.02	5.89	0.0367	-0.1464	0.6282	-4.5850	0.0100	0.5517	-3.9886		
21	0.02	5.07	0.0430	-0.1592	0.7244	-4.8677	0.0100	0.5662	-3.7023		
22	0.02	4.23	0.0466	-0.2062	0.8554	-5.2570	0.0040	0.5940	-4.4257		
23	0.02	3.49	0.0556	-0.1838	1.0057	-5.6204	0.0110	0.6256	-3.3065		
24	0.02	2.72	0.0647	-0.2295	1.1255	-5.9601	0.0080	0.6524	-3.5484		
25	0.02	1.96	0.0505	-0.2147	1.3198	-6.4032	0.0090	0.6776	-4.2515		
26	0.02	1.15	0.0591	-0.2427	1.3824	-6.7018	0.0060	0.7023	-4.1073		
27	0.02	0.44	0.0465	-0.2031	1.5263	-7.0282	0.0070	0.7274	-4.3677		
28	0.02	-0.36	0.0333	-0.1890	1.6920	-7.4291	0.0100	0.7529	-4.8097		
29	0.02	-1.16	0.0602	-0.2223	1.8023	-7.7525	0.0080	0.7774	-3.6924		
30	0.02	-1.96	0.0785	-0.2649	1.9074	-8.0927	0.0050	0.8005	-3.3745		
31	0.02	-2.74	0.0655	-0.2827	2.0526	-8.4150	0.0060	0.8189	-4.3160		
32	0.02	-3.61	0.0433	-0.2316	2.1756	-8.7271	0.0090	0.8435	-5.3492		
33	0.01	-4.38	0.0770	-0.3128	2.3548	-9.0780	0.0050	0.8532	-4.0623		
34	0.02	-5.14	0.0440	-0.2306	2.4986	-9.4022	0.0060	0.8788	-5.2409		
35	0.01	-5.92	0.0618	-0.3015	2.5766	-9.7154	0.0060	0.8957	-4.8790		
36	0.01	-6.69	0.0542	-0.2858	2.6505	-9.9160	0.0070	0.9087	-5.2745		
37	0.02	-7.51	0.0786	-0.3190	2.8638	-10.1775	0.0050	0.9179	-4.0590		
38	0.01	-8.30	0.0709	-0.3502	2.9509	-10.3945	0.0050	0.9355	-4.9402		
39	0.01	-9.10	0.0607	-0.2749	3.0979	-10.5222	-0.0030	0.9442	-4.5301		
40	0.01	-9.87	0.0619	-0.3426	3.2029	-10.5542	0.0060	0.9503	-5.5357		
41	0.02	-10.68	0.0805	-0.3147	3.2267	-10.4246	0.0	0.9557	-3.9093		
42	0.01	-11.41	0.0702	-0.3182	3.3100	-10.3482	-0.0030	0.9376	-4.5339		
43	0.01	-12.18	0.0585	-0.2689	3.4428	-10.4363	-0.0140	0.9360	-4.5966		
44	0.01	-12.93	0.0555	-0.2907	3.4582	-10.2248	-0.0230	0.9184	-5.2378		
45	0.01	-13.74	0.0687	-0.2861	3.6171	-10.3523	-0.0200	0.9184	-4.1656		
46	0.01	-14.54	0.0586	-0.2790	3.6815	-10.3344	-0.0040	0.9222	-4.7618		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX	AY	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.05	1.7		0.0	B2W0F12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	-15.39	0.0524	-0.2493	3.9139	-10.5268	-0.0130	0.9281	-4.7588		
48	0.01	-16.18	0.0503	-0.2834	3.9782	-10.6558	-0.0230	0.9428	-5.6346		
49	0.01	-16.98	0.0708	-0.3481	4.1294	-10.7635	-0.0220	0.9584	-4.9170		
50	0.01	-17.85	0.0667	-0.3113	4.3282	-10.7749	-0.0170	0.9727	-4.6684		
51	0.01	-18.61	0.0583	-0.2866	4.5666	-11.1446	-0.0140	0.9785	-4.9163		
52	0.01	-19.49	0.0734	-0.3357	4.7227	-11.2681	-0.0260	1.0021	-4.5744		
53	0.01	-20.18	0.0639	-0.3304	4.9649	-11.4142	-0.0570	0.9862	-5.1715		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	118	1.05	1.7	0.0	B2MDF14	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.50	-0.3259	-0.0164	-0.0703	0.0505	0.2157	0.0283	0.0002	0.0085	0.0071	0.3014
2	0.02	19.52	-0.3217	-0.0158	-0.0726	0.0491	0.2257	0.0327	-0.0001	0.0125	-0.0031	0.3821
3	0.02	19.20	-0.3048	-0.0160	-0.0704	0.0526	0.2309	0.0246	0.0005	0.0074	0.0224	0.3007
4	0.02	18.45	-0.2925	-0.0156	-0.0618	0.0535	0.2112	0.0304	0.0008	0.0105	0.0263	0.3464
5	0.03	17.66	-0.2632	-0.0147	-0.0523	0.0560	0.1987	0.0210	0.0004	0.0059	0.0214	0.2808
6	0.04	16.85	-0.1979	-0.0143	-0.0334	0.0725	0.1690	0.0148	0.0006	0.0038	0.0439	0.2589
7	0.03	16.05	-0.1659	-0.0139	-0.0205	0.0838	0.1234	0.0307	0.0005	0.0090	0.0179	0.2941
8	0.02	15.31	-0.1243	-0.0133	-0.0044	0.1074	0.0355	0.0249	0.0005	0.0057	0.0201	0.2288
9	0.03	14.53	-0.0754	-0.0122	0.0114	0.1618	-0.1509	0.0234	0.0002	0.0068	0.0085	0.2905
10	0.02	13.76	-0.0277	-0.0123	0.0280	0.4440	-1.0097	0.0277	0.0001	0.0053	0.0036	0.1924
11	0.02	12.97	0.0085	-0.0121	0.0478	-1.4292	5.6273	0.0260	0.0005	0.0068	0.0192	0.2601
12	0.02	12.23	0.0533	-0.0120	0.0610	-0.2251	1.1456	0.0174	0.0004	0.0040	0.0259	0.2298
13	0.03	11.45	0.1133	-0.0127	0.0811	-0.1125	0.7163	0.0155	0.0006	0.0007	0.0419	0.0429
14	0.02	10.67	0.1600	-0.0135	0.0983	-0.0847	0.6145	0.0225	0.0003	0.0045	0.0133	0.1999
15	0.02	9.83	0.2062	-0.0143	0.1174	-0.0693	0.5644	0.0115	0.0004	0.0011	0.0391	0.0984
16	0.03	9.07	0.2552	-0.0149	0.1374	-0.0586	0.5405	0.0106	0.0008	-0.0011	0.0755	-0.1007
17	0.02	8.28	0.2983	-0.0156	0.1556	-0.0523	0.5216	0.0045	0.0004	-0.0026	0.1000	-0.5779
18	0.02	7.46	0.3473	-0.0161	0.1760	-0.0465	0.5068	0.0122	0.0007	0.0032	0.0574	0.2594
19	0.02	6.70	0.3875	-0.0160	0.1922	-0.0413	0.4960	0.0078	0.0005	-0.0001	0.0705	-0.0129
20	0.02	5.89	0.4519	-0.0167	0.2074	-0.0371	0.4589	0.0020	0.0009	-0.0035	0.4499	-1.7668
21	0.02	5.07	0.5051	-0.0173	0.2258	-0.0343	0.4470	0.0045	0.0004	-0.0026	0.0889	-0.5779
22	0.02	4.23	0.5682	-0.0185	0.2448	-0.0325	0.4309	0.0116	0.0002	0.0008	0.0172	0.0660
23	0.02	3.49	0.6280	-0.0209	0.2604	-0.0333	0.4147	0.0021	0.0008	-0.0038	0.3809	-1.8096
24	0.02	2.72	0.6869	-0.0230	0.2812	-0.0335	0.4093	0.0069	0.0007	-0.0019	0.1014	-0.2755
25	0.02	1.96	0.7443	-0.0241	0.2959	-0.0324	0.3976	0.0031	0.0010	-0.0026	0.3386	-0.8281
26	0.02	1.15	0.8008	-0.0256	0.3132	-0.0320	0.3911	0.0067	0.0005	-0.0010	0.0821	-0.1444
27	0.02	0.44	0.8508	-0.0266	0.3295	-0.0313	0.3873	-0.0036	0.0008	-0.0033	-1.4164	5.4999
28	0.02	-0.36	0.9057	-0.0263	0.3421	-0.0291	0.3777	-0.0077	0.0012	-0.0066	-0.1558	0.8527
29	0.02	-1.16	0.9535	-0.0278	0.3537	-0.0292	0.3710	0.0030	0.0011	-0.0023	0.3666	-0.7668
30	0.02	-1.96	1.0074	-0.0273	0.3646	-0.0271	0.3669	0.0044	0.0008	-0.0024	0.1931	-0.5531
31	0.02	-2.74	1.0592	-0.0264	0.3814	-0.0250	0.3601	0.0002	0.0005	-0.0013	2.7495	-6.6668
32	0.02	-3.61	1.1108	-0.0253	0.3939	-0.0228	0.3546	-0.0054	0.0011	-0.0053	-0.2037	0.9814
33	0.01	-4.38	1.1550	-0.0246	0.3998	-0.0213	0.3461	-0.0006	0.0004	-0.0031	-0.7499	5.1665
34	0.02	-5.14	1.2169	-0.0224	0.4136	-0.0184	0.3399	-0.0037	0.0011	-0.0070	-0.3108	1.9008
35	0.01	-5.92	1.2598	-0.0206	0.4210	-0.0163	0.3342	-0.0006	0.0003	-0.0026	0.4999	-4.3335
36	0.01	-6.69	1.2856	-0.0191	0.4279	-0.0149	0.3328	-0.0017	0.0007	-0.0042	-0.4111	2.4509
37	0.02	-7.51	1.3248	-0.0147	0.4314	-0.0111	0.3257	0.0043	0.0004	-0.0019	0.1046	-0.4342
38	0.01	-8.30	1.3452	-0.0083	0.4304	-0.0062	0.3200	-0.0005	0.0015	-0.0044	-3.0994	8.7332
39	0.01	-9.10	1.3759	-0.0007	0.4253	-0.0005	0.3091	0.0003	0.0002	-0.0014	0.8332	-4.6668
40	0.01	-9.87	1.3724	0.0060	0.4221	0.0044	0.3076	0.0038	0.0014	-0.0056	0.3684	-1.4826
41	0.02	-10.68	1.3664	0.0090	0.4106	0.0066	0.3005	-0.0004	0.0023	-0.0049	-5.7490	12.3332
42	0.01	-11.41	1.3563	0.0101	0.4063	0.0075	0.2996	-0.0019	0.0033	-0.0050	-1.7365	2.6490
43	0.01	-12.18	1.3519	0.0126	0.4008	0.0093	0.2965	0.0117	0.0003	0.0002	0.0299	0.0170
44	0.01	-12.93	1.2891	0.0113	0.3840	0.0088	0.2979	0.0082	0.0034	-0.0034	0.4146	-0.4107
45	0.01	-13.74	1.3358	0.0121	0.3925	0.0091	0.2938	0.0125	0.0012	0.0021	0.1000	0.1652
46	0.01	-14.54	1.3405	0.0113	0.3939	0.0084	0.2938	0.0032	0.0015	-0.0031	0.4843	-0.9793

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION	
6	118	1.05	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED

PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-15.39	1.3631	0.0088	0.3996	0.0065	0.2932	0.0080	-0.0010	0.0004	-0.1250	0.0457
48	0.01	-16.18	1.3739	0.0079	0.4034	0.0057	0.2936	0.0086	0.0029	0.0008	0.3430	0.0890
49	0.01	-16.98	1.3894	0.0072	0.4091	0.0052	0.2944	0.0183	0.0025	0.0052	0.1366	0.2840
50	0.01	-17.85	1.4234	0.0089	0.4159	0.0063	0.2922	0.0124	-0.0034	0.0062	-0.2741	0.5026
51	0.01	-18.61	1.4595	0.0085	0.4208	0.0059	0.2883	0.0176	-0.0012	0.0048	-0.0682	0.2707
52	0.01	-19.49	1.4903	0.0098	0.4289	0.0066	0.2878	0.0156	-0.0016	0.0065	-0.1096	0.4428
53	0.01	-20.18	1.4833	0.0089	0.4348	0.0060	0.2931	0.0310	-0.0006	0.0087	-0.0210	0.2816

MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST: PART MACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
	6	118 1.05 1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED		
	ALPHA	BETA	CNF3	Ch3	C83	XCPF3	YCPF3	CNF4	CM4	C84	XCPF4	YCPF4
1	0.02	19.50	-0.2822	-0.0153	-0.0903	0.0544	0.3198	-0.0044	0.0027	0.0008	-0.6135	-0.1895
2	0.02	19.52	-0.2763	-0.0154	-0.0890	0.0557	0.3220	-0.0070	0.0043	0.0015	-0.6142	-0.2096
3	0.02	19.20	-0.2766	-0.0154	-0.0883	0.0556	0.3191	-0.0032	0.0019	0.0006	-0.6093	-0.1980
4	0.02	18.45	-0.2493	-0.0154	-0.0765	0.0620	0.3083	-0.0066	0.0040	0.0013	-0.6135	-0.1971
5	0.03	17.66	-0.2264	-0.0148	-0.0631	0.0656	0.2789	-0.0063	0.0039	0.0013	-0.6189	-0.2065
6	0.04	16.85	-0.2004	-0.0140	-0.0554	0.0701	0.2763	0.0133	-0.0082	-0.0029	-0.6164	-0.2157
7	0.03	16.05	-0.1577	-0.0132	-0.0350	0.0840	0.2222	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
8	0.02	15.31	-0.1118	-0.0130	-0.0152	0.1163	0.1355	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
9	0.03	14.53	-0.0669	-0.0125	0.0005	0.1868	-0.0076	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
10	0.02	13.76	-0.0266	-0.0121	0.0181	0.4548	-0.6818	0.0071	-0.0044	-0.0015	-0.6196	-0.2161
11	0.02	12.97	0.0159	-0.0123	0.0370	-0.7734	2.3269	0.0057	-0.0035	-0.0012	-0.6139	-0.2106
12	0.02	12.23	0.0676	-0.0130	0.0567	-0.1930	0.8391	0.0072	-0.0044	-0.0016	-0.6110	-0.2223
13	0.03	11.45	0.1045	-0.0134	0.0800	-0.1262	0.7658	0.0069	-0.0042	-0.0015	-0.6158	-0.2175
14	0.02	10.67	0.1596	-0.0139	0.0992	-0.0871	0.6214	0.0091	-0.0056	-0.0020	-0.6153	-0.2162
15	0.02	9.83	0.2003	-0.0151	0.1207	-0.0754	0.6028	0.0077	-0.0047	-0.0017	-0.6103	-0.2252
16	0.03	9.07	0.2414	-0.0158	0.1413	-0.0656	0.5855	0.0063	-0.0038	-0.0014	-0.6110	-0.2223
17	0.02	8.28	0.2913	-0.0160	0.1586	-0.0549	0.5443	0.0065	-0.0040	-0.0014	-0.6153	-0.2206
18	0.02	7.46	0.3312	-0.0163	0.1819	-0.0493	0.5490	0.0077	-0.0047	-0.0017	-0.6103	-0.2252
19	0.02	6.70	0.3927	-0.0164	0.2021	-0.0419	0.5147	0.0081	-0.0049	-0.0018	-0.6110	-0.2223
20	0.02	5.89	0.4286	-0.0165	0.2216	-0.0386	0.5170	0.0067	-0.0041	-0.0015	-0.6193	-0.2190
21	0.02	5.07	0.4851	-0.0172	0.2405	-0.0355	0.4958	0.0050	-0.0030	-0.0011	-0.6099	-0.2268
22	0.02	4.23	0.5434	-0.0173	0.2614	-0.0318	0.4810	0.0046	-0.0028	-0.0010	-0.6195	-0.2103
23	0.02	3.49	0.5965	-0.0186	0.2787	-0.0312	0.4673	0.0040	-0.0025	-0.0009	-0.6249	-0.2168
24	0.02	2.72	0.6533	-0.0203	0.3017	-0.0311	0.4618	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
25	0.02	1.96	0.6929	-0.0210	0.3207	-0.0304	0.4628	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
26	0.02	1.15	0.7550	-0.0211	0.3408	-0.0280	0.4515	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
27	0.02	0.44	0.8010	-0.0218	0.3535	-0.0272	0.4413	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
28	0.02	-0.36	0.8485	-0.0216	0.3703	-0.0254	0.4364	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
29	0.02	-1.16	0.8931	-0.0213	0.3868	-0.0239	0.4331	0.0028	-0.0017	-0.0006	-0.6249	-0.2025
30	0.02	-1.96	0.9455	-0.0202	0.4011	-0.0214	0.4243	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
31	0.02	-2.74	1.0027	-0.0195	0.4124	-0.0194	0.4113	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
32	0.02	-3.61	1.0465	-0.0183	0.4245	-0.0175	0.4056	0.0032	-0.0020	-0.0007	-0.6249	-0.2293
33	0.01	-4.38	1.0958	-0.0163	0.4352	-0.0149	0.3972	0.0040	-0.0025	-0.0009	-0.6249	-0.2168
34	0.02	-5.14	1.1388	-0.0146	0.4476	-0.0129	0.3932	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
35	0.01	-5.92	1.1793	-0.0123	0.4560	-0.0104	0.3867	0.0032	-0.0020	-0.0007	-0.6249	-0.2293
36	0.01	-6.69	1.2168	-0.0097	0.4616	-0.0080	0.3796	0.0036	-0.0022	-0.0008	-0.6249	-0.2223
37	0.02	-7.51	1.2623	-0.0037	0.4634	-0.0030	0.3671	0.0023	-0.0014	-0.0005	-0.6086	-0.2320
38	0.01	-8.30	1.2870	-0.0009	0.4649	-0.0007	0.3613	0.0028	-0.0017	-0.0006	-0.6249	-0.2025
39	0.01	-9.10	1.3064	0.0081	0.4586	0.0062	0.3510	0.0019	-0.0011	-0.0004	-0.6052	-0.1931
40	0.01	-9.87	1.3122	0.0157	0.4519	0.0120	0.3444	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
41	0.02	-10.68	1.3042	0.0186	0.4432	0.0143	0.3398	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
42	0.01	-11.41	1.3062	0.0204	0.4373	0.0156	0.3348	0.0008	-0.0004	-0.0002	-0.5824	-0.2918
43	0.01	-12.18	1.2986	0.0226	0.4343	0.0174	0.3344	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
44	0.01	-12.93	1.2821	0.0231	0.4248	0.0181	0.3313	0.0019	-0.0012	-0.0004	-0.6315	-0.1931
45	0.01	-13.74	1.2682	0.0206	0.4191	0.0162	0.3303	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
46	0.01	-14.54	1.2866	0.0204	0.4261	0.0159	0.3312	0.0008	-0.0004	-0.0002	-0.5624	-0.2918

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	DEL4	TRANSITION		
6	118	1.05	1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.39	1.2985	0.0186	0.4297	0.0144	0.3309	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
48	0.01	-16.18	1.3353	0.0210	0.4351	0.0158	0.3259	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
49	0.01	-16.98	1.3488	0.0214	0.4419	0.0159	0.3277	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
50	0.01	-17.85	1.3635	0.0197	0.4456	0.0144	0.3268	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
51	0.01	-18.61	1.4023	0.0212	0.4544	0.0151	0.3240	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
52	0.01	-19.49	1.4383	0.0208	0.4649	0.0145	0.3232	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
53	0.01	-20.18	1.4657	0.0199	0.4797	0.0136	0.3273	0.0014	-0.0009	-0.0003	-0.6427	-0.2382

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.10	1.7	0.0	B2HOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.03	19.42	0.0146	0.0516	-2.3223	0.0526	-0.0130	0.1289	3.5315	
2	0.03	19.55	0.0096	0.0286	-2.2091	-0.2248	-0.0110	0.1597	2.9750	
3	0.03	19.17	-0.0317	0.1354	-2.3983	-0.1379	-0.0070	0.1253	-4.2707	
4	0.03	18.50	0.0060	0.0626	-2.1408	-0.2994	-0.0050	0.1594	10.4333	
5	0.04	17.59	-0.0791	0.3407	-1.9418	-0.4740	0.0050	0.1834	-4.3077	
6	0.03	16.63	0.0190	0.0344	-1.6548	-0.8019	-0.0100	0.2238	1.8105	
7	0.03	16.00	0.0396	-0.0684	-1.6556	-0.8012	-0.0120	0.2186	-1.7283	
8	0.02	15.24	-0.0024	-0.0006	-1.3092	-1.1187	-0.0070	0.2575	0.2667	
9	0.02	14.50	-0.0372	0.0931	-1.0999	-1.3538	0.0020	0.3027	-2.5021	
10	0.03	13.68	0.0011	0.0725	-1.0476	-1.5100	0.0	0.3075	65.8727	
11	0.03	12.92	0.0086	0.0250	-0.9871	-1.6007	0.0010	0.3213	2.9023	
12	0.03	12.18	0.0036	0.0360	-0.7554	-1.9190	0.0010	0.3483	9.9889	
13	0.03	11.44	-0.0062	0.0627	-0.5185	-2.2197	0.0030	0.3790	-10.1097	
14	0.03	10.61	0.0381	-0.0163	-0.4662	-2.4209	0.0010	0.3952	-0.4289	
15	0.02	9.83	0.0158	-0.0801	-0.2517	-2.7733	0.0010	0.4224	-5.0709	
16	0.03	9.06	0.0118	0.0005	-0.1869	-2.9400	0.0060	0.4305	0.0407	
17	0.03	8.22	0.0128	-0.0019	-0.0283	-3.2590	0.0090	0.4636	-0.1500	
18	0.02	7.45	0.0245	-0.0743	0.2773	-3.8037	0.0100	0.5051	-3.0326	
19	0.03	6.65	0.0346	-0.0704	0.3880	-4.0848	0.0110	0.5203	-2.0358	
20	0.02	5.84	0.0328	-0.0689	0.4478	-4.3225	0.0100	0.5496	-2.1012	
21	0.02	5.07	0.0417	-0.1104	0.6841	-4.6523	0.0090	0.5715	-2.6470	
22	0.02	4.23	0.0333	-0.0826	0.7699	-4.9354	0.0130	0.5408	-2.4811	
23	0.02	3.49	0.0068	-0.0375	0.9004	-5.2690	0.0140	0.6224	-5.5176	
24	0.03	2.73	0.0408	-0.1101	1.1016	-5.7156	0.0100	0.6473	-2.6990	
25	0.02	1.96	0.0395	-0.1253	1.1898	-6.0372	0.0070	0.6751	-3.1721	
26	0.02	1.14	0.0544	-0.1641	1.2762	-6.3711	0.0080	0.7006	-3.0176	
27	0.02	0.40	0.0504	-0.1475	1.4679	-6.7145	0.0110	0.7114	-2.9278	
28	0.02	-0.31	0.0450	-0.1510	1.5975	-7.0859	0.0110	0.7361	-3.3556	
29	0.02	-1.17	0.0456	-0.1568	1.7506	-7.4611	0.0090	0.7698	-3.4395	
30	0.02	-1.90	0.0327	-0.1328	1.8217	-7.7086	0.0110	0.7926	-4.0605	
31	0.02	-2.74	0.0446	-0.1444	1.9593	-8.0554	0.0100	0.8163	-3.2486	
32	0.02	-3.57	0.0301	-0.1341	2.0685	-8.3332	0.0130	0.8449	-4.4565	
33	0.02	-4.35	0.0259	-0.1262	2.2448	-8.6600	0.0150	0.8566	-4.8749	
34	0.02	-5.10	0.0335	-0.1419	2.3990	-9.0508	0.0080	0.8880	-4.2358	
35	0.02	-5.85	0.0378	-0.1389	2.5557	-9.2822	0.0080	0.8929	-3.6751	
36	0.02	-6.68	0.0396	-0.1744	2.5621	-9.4691	0.0120	0.9158	-4.4050	
37	0.02	-7.49	0.0587	-0.2012	2.8185	-9.8422	0.0080	0.9253	-3.4273	
38	0.02	-8.33	0.0251	-0.1591	2.8556	-9.9701	0.0130	0.9472	-6.3402	
39	0.02	-8.99	0.0519	-0.1856	3.1074	-10.2276	0.0050	0.9505	-3.5773	
40	0.02	-9.85	0.0464	-0.1829	3.0643	-10.3072	0.0110	0.9824	-3.9431	
41	0.02	-10.65	0.0356	-0.1568	3.2770	-10.6230	-0.0030	0.9780	-4.4056	
42	0.02	-11.34	0.0609	-0.1872	3.3125	-10.6347	0.0030	0.9770	-3.0749	
43	0.02	-12.20	0.0716	-0.2062	3.3884	-10.5909	0.0030	0.9784	-2.8804	
44	0.02	-12.82	0.0384	-0.1877	3.5650	-10.6593	-0.0140	0.9722	-4.6896	
45	0.02	-13.67	0.0252	-0.1593	3.6923	-10.7385	-0.0100	1.0020	-6.3206	
46	0.02	-14.52	0.0419	-0.1546	3.7938	-10.7176	-0.0070	0.9968	-3.6912	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RR10-6	PHI	CONF	L	UEL1	DEL2	UEL3	DEL4	TRANSITION	
6	119	1.10	1.7	0.0	BZMOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	-15.33	0.0448	-0.1957	3.7933	-10.7469	-0.0190	1.0019	-4.3687		
48	0.02	-16.02	0.0524	-0.2113	4.0295	-10.7766	-0.0160	1.0111	-4.0336		
49	0.02	-16.92	0.0324	-0.1293	4.1807	-10.8973	-0.0110	1.0023	-3.9926		
50	0.01	-17.76	0.0319	-0.2096	4.3178	-10.8513	-0.0130	0.9995	-6.5724		
51	0.01	-18.70	0.0639	-0.2754	4.5274	-11.0338	-0.0280	1.0000	-4.3108		
52	0.01	-19.47	0.0471	-0.2999	4.8234	-11.1511	-0.0360	1.0079	-6.3682		
53	0.02	-20.18	0.0839	-0.2554	5.1039	-11.3150	-0.0440	1.0115	-3.0448		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION				
6	11.9	1.10	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	0.03	19.42	-0.3394	-0.0141	-0.0685	0.0415	0.2018	0.0306	-0.0010	0.0009	-0.0327	0.0293		
2	0.03	19.55	-0.3256	-0.0145	-0.0665	0.0447	0.2055	0.0305	-0.0006	0.0010	-0.0197	0.0316		
3	0.03	19.17	-0.3317	-0.0141	-0.0691	0.0425	0.2084	0.0222	-0.0011	-0.0016	-0.0495	-0.0722		
4	0.03	18.50	-0.3042	-0.0139	-0.0575	0.0458	0.1889	0.0293	-0.0010	0.0009	-0.0341	0.0295		
5	0.04	17.59	-0.2542	-0.0150	-0.0438	0.0592	0.1723	0.0177	-0.0005	-0.0042	-0.0282	-0.2374		
6	0.03	16.83	-0.2197	-0.0136	-0.0298	0.0621	0.1357	0.0354	-0.0010	0.0026	-0.0297	0.0733		
7	0.03	16.00	-0.1848	-0.0131	-0.0196	0.0711	0.1059	0.0363	-0.0010	0.0039	-0.0275	0.1073		
8	0.02	15.24	-0.1389	-0.0132	0.0008	0.0954	-0.0059	0.0317	-0.0004	0.0016	-0.0142	0.0493		
9	0.02	14.50	-0.0940	-0.0117	0.0129	0.1244	-0.1370	0.0175	-0.0006	-0.0033	-0.0371	-0.1868		
10	0.03	13.68	-0.0418	-0.0131	0.0313	0.3145	-0.7481	0.0294	-0.0009	0.0008	-0.0323	0.0271		
11	0.03	12.92	-0.0023	-0.0123	0.0476	5.3686	-20.7103	0.0295	-0.0013	0.0001	-0.0441	0.0044		
12	0.03	12.18	0.0507	-0.0126	0.0624	-0.2485	1.2306	0.0286	-0.0013	-0.0013	-0.0472	-0.0444		
13	0.03	11.44	0.0795	-0.0127	0.0795	-0.1597	1.0049	0.0248	-0.0011	-0.0016	-0.0464	-0.0660		
14	0.03	10.61	0.1382	-0.0134	0.0975	-0.0973	0.7059	0.0244	-0.0002	-0.0008	-0.0102	-0.0315		
15	0.02	9.83	0.1968	-0.0144	0.1146	-0.0734	0.5822	0.0239	-0.0003	-0.0039	-0.0146	-0.1647		
16	0.03	9.06	0.2263	-0.0149	0.1290	-0.0661	0.5701	0.0082	-0.0002	-0.0076	-0.0244	-0.9229		
17	0.03	8.22	0.2699	-0.0152	0.1532	-0.0565	0.5677	0.0135	-0.0003	-0.0082	-0.0222	-0.6075		
18	0.02	7.45	0.3338	-0.0160	0.1748	-0.0479	0.5237	0.0237	0.0003	-0.0038	0.0127	-0.1605		
19	0.03	6.65	0.3668	-0.0161	0.1883	-0.0440	0.5134	0.0164	-0.0002	-0.0048	-0.0122	-0.2948		
20	0.02	5.84	0.4089	-0.0163	0.2054	-0.0398	0.5024	0.0090	0.0	-0.0056	0.0	-0.6223		
21	0.02	5.07	0.4672	-0.0168	0.2196	-0.0359	0.4700	0.0138	-0.0001	-0.0047	-0.0072	-0.3407		
22	0.02	4.23	0.5164	-0.0172	0.2342	-0.0334	0.4534	0.0055	0.0004	-0.0074	0.0818	-1.3395		
23	0.02	3.49	0.5677	-0.0175	0.2538	-0.0309	0.4470	-0.0009	0.0003	-0.0121	-0.3888	13.4443		
24	0.03	2.73	0.6435	-0.0210	0.2758	-0.0327	0.4286	0.0127	0.0002	-0.0057	0.0197	-0.4463		
25	0.02	1.96	0.6895	-0.0227	0.2876	-0.0330	0.4172	0.0127	0.0002	-0.0057	0.0197	-0.4463		
26	0.02	1.14	0.7338	-0.0247	0.3055	-0.0336	0.4163	0.0089	0.0002	-0.0055	0.0281	-0.6218		
27	0.02	0.40	0.7863	-0.0259	0.3191	-0.0329	0.4058	0.0089	0.0002	-0.0055	0.0225	-0.6218		
28	0.02	-0.31	0.8322	-0.0259	0.3314	-0.0312	0.3982	0.0013	0.0007	-0.0111	0.5384	-8.5129		
29	0.02	-1.17	0.9009	-0.0275	0.3460	-0.0306	0.3840	0.0049	0.0009	-0.0102	0.1836	-2.0749		
30	0.02	-1.90	0.9469	-0.0277	0.3617	-0.0292	0.3820	0.0006	0.0005	-0.0079	0.9165	-13.1668		
31	0.02	-2.74	0.9968	-0.0277	0.3704	-0.0278	0.3716	0.0012	0.0013	-0.0110	1.0831	-9.1668		
32	0.02	-3.57	1.0523	-0.0270	0.3819	-0.0257	0.3630	-0.0026	0.0014	-0.0108	-0.5576	4.1409		
33	0.02	-4.35	1.1005	-0.0252	0.3890	-0.0229	0.3535	-0.0072	0.0017	-0.0131	-0.2361	1.8193		
34	0.02	-5.10	1.1563	-0.0244	0.4039	-0.0211	0.3493	0.0047	0.0007	-0.0092	0.1595	-1.9647		
35	0.02	-5.85	1.1873	-0.0230	0.4128	-0.0194	0.3477	0.0012	0.0008	-0.0104	0.6665	-8.6668		
36	0.02	-6.68	1.2324	-0.0213	0.4190	-0.0173	0.3400	-0.0024	0.0017	-0.0121	-0.7082	5.0415		
37	0.02	-7.49	1.2670	-0.0201	0.4270	-0.0159	0.3370	0.0045	-0.0001	-0.0080	-0.0222	-1.7779		
38	0.02	-8.33	1.3074	-0.0196	0.4303	-0.0120	0.3292	-0.0019	0.0015	-0.0137	-0.8156	7.2279		
39	0.02	-8.99	1.3393	-0.0160	0.4330	-0.0119	0.3233	0.0012	0.0005	-0.0102	0.4583	-8.5001		
40	0.02	-9.85	1.3584	-0.0145	0.4387	-0.0107	0.3230	0.0015	0.0013	-0.0121	0.8665	-8.0668		
41	0.02	-10.65	1.3895	-0.0074	0.4442	-0.0054	0.3125	0.0060	0.0010	-0.0096	0.1666	-1.6001		
42	0.02	-11.34	1.3850	-0.0038	0.4341	-0.0027	0.3134	0.0049	-0.0004	-0.0095	-0.0918	-1.9321		
43	0.02	-12.20	1.3833	0.0031	0.4284	0.0023	0.3097	0.0020	0.0000	-0.0083	-0.0250	-4.1668		
44	0.02	-12.82	1.3883	0.0061	0.4221	0.0044	0.3040	0.0133	0.0014	-0.0036	0.1052	-0.2683		
45	0.02	-13.67	1.4075	0.0071	0.4291	0.0051	0.3049	0.0125	0.0015	-0.0054	0.1240	-0.4348		
46	0.02	-14.52	1.4145	0.0085	0.4236	0.0060	0.2994	0.0096	0.0015	-0.0040	0.1562	-0.4168		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		119	1.10	1.7		0.0	B2WUFL2	0.0	20	0	20	0	FIXED...
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	-15.33	1.4063	0.0085	0.4233	0.0000	0.3010	0.0127	0.0019	-0.0014	0.1535	-0.1077	
48	0.02	-16.02	1.4037	0.0096	0.4206	0.0069	0.2996	0.0048	0.0096	-0.0099	2.0101	-2.0626	
49	0.02	-16.92	1.4267	0.0084	0.4276	0.0059	0.2997	0.0085	0.0011	-0.0044	0.1353	-0.5138	
50	0.01	-17.76	1.4461	0.0083	0.4342	0.0057	0.3002	0.0143	-0.0004	-0.0010	-0.0315	-0.0724	
51	0.01	-18.70	1.4605	0.0079	0.4382	0.0054	0.3000	0.0158	-0.0008	0.0038	-0.0506	0.2383	
52	0.01	-19.47	1.4908	0.0063	0.4486	0.0043	0.3009	0.0392	-0.0003	0.0125	-0.0077	0.3179	
53	0.02	-20.18	1.5006	0.0049	0.4521	0.0033	0.3013	0.0400	0.0013	0.0136	0.0325	0.3407	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.19	1.10	1.7	0.0	B2MCF12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.03	19.42	-0.2548	-0.0134	-0.0928	0.0526	0.3642	0.0	0.0	0.0	0.0	0.0
2	0.03	19.55	-0.2384	-0.0127	-0.0920	0.0535	0.3861	-0.0013	0.0008	0.0003	-0.6153	-0.2052
3	0.03	19.17	-0.2366	-0.0133	-0.0897	0.0562	0.3793	-0.0034	0.0020	0.0007	-0.6028	-0.1962
4	0.03	18.50	-0.2234	-0.0133	-0.0845	0.0597	0.3784	0.0039	-0.0024	-0.0008	-0.6153	-0.2052
5	0.04	17.59	-0.2032	-0.0125	-0.0743	0.0615	0.3657	0.0131	-0.0080	-0.0028	-0.6144	-0.2164
6	0.03	16.83	-0.1598	-0.0123	-0.0522	0.0773	0.3270	0.0067	-0.0041	-0.0015	-0.6118	-0.2190
7	0.03	16.00	-0.1083	-0.0119	-0.0337	0.1103	0.3111	-0.0041	0.0025	0.0008	-0.6096	-0.2034
8	0.02	15.24	-0.0707	-0.0119	-0.0197	0.1690	0.2781	0.0007	-0.0024	-0.0002	-0.6427	-0.2382
9	0.02	14.50	-0.0278	-0.0115	-0.0032	0.4136	0.1138	0.0056	-0.0034	-0.0012	-0.6160	-0.2204
10	0.03	13.68	0.0053	-0.0114	0.0129	-2.1600	2.4276	0.0088	-0.0054	-0.0019	-0.6192	-0.2122
11	0.03	12.92	0.0402	-0.0115	0.0312	-0.2873	0.7760	0.0095	-0.0058	-0.0020	-0.6157	-0.2142
12	0.03	12.18	0.0881	-0.0122	0.0467	-0.1385	0.5534	0.0078	-0.0048	-0.0017	-0.6153	-0.2181
13	0.03	11.44	0.1339	-0.0127	0.0703	-0.0948	0.5251	0.0092	-0.0056	-0.0020	-0.6140	-0.2211
14	0.03	10.61	0.1776	-0.0131	0.0902	-0.0740	0.5078	0.0104	-0.0064	-0.0022	-0.6153	-0.2149
15	0.02	9.83	0.2172	-0.0140	0.1110	-0.0647	0.5109	0.0084	-0.0051	-0.0018	-0.6130	-0.2144
16	0.03	9.06	0.2619	-0.0155	0.1282	-0.0594	0.4898	0.0086	-0.0053	-0.0019	-0.6162	-0.2133
17	0.03	8.22	0.3043	-0.0157	0.1507	-0.0517	0.4952	0.0089	-0.0055	-0.0019	-0.6179	-0.2173
18	0.02	7.45	0.3575	-0.0159	0.1706	-0.0445	0.4772	0.0099	-0.0060	-0.0022	-0.6110	-0.2223
19	0.03	6.65	0.4014	-0.0161	0.1904	-0.0402	0.4742	0.0101	-0.0062	-0.0022	-0.6138	-0.2212
20	0.02	5.84	0.4496	-0.0159	0.2084	-0.0354	0.4635	0.0072	-0.0044	-0.0016	-0.6179	-0.2223
21	0.02	5.07	0.4783	-0.0162	0.2261	-0.0340	0.4726	0.0063	-0.0039	-0.0014	-0.6189	-0.2223
22	0.02	4.23	0.5409	-0.0163	0.2405	-0.0301	0.4447	0.0055	-0.0034	-0.0012	-0.6181	-0.2122
23	0.02	3.49	0.5867	-0.0170	0.2631	-0.0290	0.4484	0.0043	-0.0026	-0.0010	-0.6045	-0.2249
24	0.03	2.73	0.6398	-0.0170	0.2843	-0.0266	0.4443	0.0027	-0.0017	-0.0006	-0.6295	-0.2223
25	0.02	1.96	0.6993	-0.0185	0.3040	-0.0265	0.4347	0.0034	-0.0020	-0.0008	-0.6028	-0.2256
26	0.02	1.14	0.7452	-0.0193	0.3196	-0.0259	0.4289	0.0033	-0.0020	-0.0007	-0.6211	-0.2122
27	0.02	0.40	0.7922	-0.0209	0.3328	-0.0264	0.4202	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
28	0.02	-0.31	0.8281	-0.0215	0.3488	-0.0260	0.4212	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
29	0.02	-1.17	0.8829	-0.0213	0.3673	-0.0241	0.4160	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
30	0.02	-1.90	0.9384	-0.0200	0.3797	-0.0213	0.4046	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
31	0.02	-2.74	0.9762	-0.0200	0.3916	-0.0205	0.4011	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
32	0.02	-3.57	1.0337	-0.0183	0.4028	-0.0177	0.3897	0.0024	-0.0015	-0.0005	-0.6249	-0.2085
33	0.02	-4.35	1.0671	-0.0177	0.4133	-0.0166	0.3873	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
34	0.02	-5.10	1.1220	-0.0151	0.4266	-0.0135	0.3802	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
35	0.02	-5.85	1.1621	-0.0141	0.4367	-0.0121	0.3758	0.0028	-0.0017	-0.0006	-0.6070	-0.2025
36	0.02	-6.68	1.1969	-0.0125	0.4450	-0.0104	0.3718	0.0036	-0.0022	-0.0008	-0.6110	-0.2223
37	0.02	-7.49	1.2544	-0.0083	0.4476	-0.0066	0.3568	0.0030	-0.0018	-0.0006	-0.6166	-0.2001
38	0.02	-8.33	1.2819	-0.0067	0.4519	-0.0052	0.3526	0.0033	-0.0020	-0.0007	-0.6211	-0.2122
39	0.02	-8.99	1.3136	-0.0053	0.4592	-0.0040	0.3496	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
40	0.02	-9.85	1.3253	-0.0035	0.4635	-0.0027	0.3447	0.0034	-0.0020	-0.0008	-0.6028	-0.2256
41	0.02	-10.65	1.3500	0.0010	0.4655	0.0007	0.3448	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
42	0.02	-11.34	1.3540	0.0081	0.4578	0.0060	0.3381	0.0018	-0.0011	-0.0004	-0.6388	-0.2223
43	0.02	-12.20	1.3593	0.0137	0.4532	0.0101	0.3334	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
44	0.02	-12.82	1.3751	0.0150	0.4522	0.0109	0.3289	0.0027	-0.0017	-0.0006	-0.6295	-0.2223
45	0.02	-13.67	1.3919	0.0176	0.4442	0.0126	0.3263	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
46	0.02	-14.52	1.3805	0.0191	0.4486	0.0138	0.3250	0.0018	-0.0011	-0.0004	-0.6388	-0.2223

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.19	1.10	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.33	1.3821	0.0193	0.4492	0.0140	0.3250	0.0019	-0.0011	-0.0004	-0.6052	-0.1931
48	0.02	-16.02	1.4200	0.0183	0.4552	0.0129	0.3205	0.0024	-0.0015	-0.0005	-0.6249	-0.2085
49	0.02	-16.92	1.4092	0.0194	0.4498	0.0138	0.3192	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
50	0.01	-17.76	1.4291	0.0202	0.4517	0.0141	0.3161	0.0020	-0.0012	-0.0004	-0.6249	-0.2168
51	0.01	-18.70	1.4394	0.0180	0.4601	0.0125	0.3197	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
52	0.01	-19.47	1.4776	0.0165	0.4740	0.0112	0.3208	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
53	0.02	-20.18	1.5050	0.0133	0.4845	0.0088	0.3219	0.0024	-0.0015	-0.0005	-0.6249	-0.2085

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	120	0.85	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.86	-0.0495	0.1843	-2.8915	4.4751	0.0040	-0.1160	-3.7232		
2	0.02	19.59	0.0036	0.0759	-2.8841	4.4357	-0.0070	-0.1056	21.1000		
3	0.02	18.86	-0.0237	0.1022	-2.8021	4.2749	-0.0050	-0.1110	-4.3114		
4	0.02	18.05	-0.0316	0.1302	-2.6943	3.9911	-0.0010	-0.0969	-4.3747		
5	0.02	17.21	-0.0036	0.1150	-2.4862	3.6246	-0.0040	-0.0782	-31.9555		
6	0.02	16.39	0.0090	0.0444	-2.3463	3.2978	-0.0110	-0.0685	-4.9333		
7	0.02	15.62	-0.0213	0.1348	-2.1600	2.9840	-0.0030	-0.0520	-6.3296		
8	0.02	14.85	-0.0130	0.0832	-1.9442	2.6460	0.0060	-0.0370	-6.4000		
9	0.02	14.08	-0.0153	0.0764	-1.7540	2.2406	0.0010	-0.0160	-4.9948		
10	0.02	13.26	-0.0070	0.0988	-1.5720	1.8648	0.0040	0.0001	-14.1143		
11	0.01	12.54	-0.0069	0.0067	-1.3748	1.5148	0.0150	0.0190	-0.9652		
12	0.01	11.74	-0.0089	0.0395	-1.1946	1.1466	0.0080	0.0365	-4.4337		
13	0.01	10.96	0.0027	0.0042	-1.0337	0.8202	0.0080	0.0517	1.5630		
14	0.01	10.14	0.0158	-0.0371	-0.9183	0.4407	0.0110	0.0655	-2.3494		
15	0.01	9.36	0.0059	0.0127	-0.7655	0.1728	0.0140	0.0785	2.1593		
16	0.01	8.53	0.0043	-0.0070	-0.6324	-0.0985	0.0130	0.0913	-1.6326		
17	0.01	7.75	0.0198	-0.0717	-0.4801	-0.4067	0.0110	0.1062	-3.6222		
18	0.01	6.98	0.0295	-0.0743	-0.3826	-0.7041	0.0120	0.1124	-2.5186		
19	0.01	6.16	0.0123	-0.0442	-0.2191	-0.9771	0.0130	0.1211	-3.5951		
20	0.01	5.36	0.0347	-0.0726	-0.1338	-1.2265	0.0110	0.1301	-2.0916		
21	0.01	4.52	0.0249	-0.0818	0.0304	-1.6113	0.0100	0.1480	-3.2875		
22	0.01	3.76	0.0270	-0.0558	0.1658	-1.8799	0.0130	0.1618	-2.0667		
23	0.01	3.00	0.0316	-0.0832	0.2887	-2.2799	0.0100	0.1848	-2.6342		
24	0.01	2.24	0.0279	-0.0880	0.4235	-2.5727	0.0110	0.1987	-3.1563		
25	0.01	1.47	0.0273	-0.0772	0.5938	-3.0231	0.0130	0.2170	-2.8286		
26	0.01	0.69	0.0278	-0.1149	0.7170	-3.3795	0.0120	0.2327	-4.1338		
27	0.01	-0.03	0.0246	-0.0734	0.9237	-3.8168	0.0110	0.2484	-2.9654		
28	0.01	-0.86	0.0321	-0.0799	1.0271	-4.1825	0.0100	0.2630	-2.4903		
29	0.01	-1.65	0.0432	-0.1265	1.1425	-4.5362	0.0100	0.2742	-2.9278		
30	0.01	-2.46	0.0285	-0.0939	1.2810	-4.9010	0.0110	0.2855	-3.2947		
31	0.01	-3.28	0.0469	-0.1386	1.4458	-5.2967	0.0100	0.2955	-2.9565		
32	0.01	-4.10	0.0319	-0.1126	1.6207	-5.7595	0.0130	0.3115	-3.5317		
33	0.01	-4.86	0.0398	-0.1427	1.7154	-6.0680	0.0100	0.3250	-3.5859		
34	0.01	-5.64	0.0405	-0.1047	1.8564	-6.3884	0.0090	0.3381	-2.9852		
35	0.01	-6.41	0.0307	-0.1100	1.9882	-6.7590	0.0100	0.3500	-3.5824		
36	0.01	-7.21	0.0457	-0.1420	2.1442	-7.1314	0.0080	0.3616	-3.1068		
37	0.01	-8.02	0.0552	-0.1713	2.3363	-7.5682	0.0130	0.3682	-3.1029		
38	0.01	-8.79	0.0466	-0.1642	2.4752	-7.8907	0.0100	0.3813	-3.5245		
39	0.01	-9.61	0.0266	-0.1002	2.5940	-8.1300	-0.0010	0.3949	-3.7684		
40	0.01	-10.36	0.0477	-0.1298	2.6305	-7.9001	0.0140	0.4077	-2.7208		
41	0.01	-11.11	0.0533	-0.1586	2.7569	-8.1511	0.0160	0.4278	-2.9760		
42	0.01	-11.89	0.0613	-0.1708	2.9504	-8.5010	0.0170	0.4362	-2.7866		
43	0.01	-12.69	0.0581	-0.1513	3.0446	-8.7529	0.0120	0.4526	-2.6048		
44	0.02	-13.42	0.0492	-0.0459	3.2040	-8.7230	0.0050	0.4660	-0.9325		
45	0.02	-14.30	0.0576	-0.0376	3.2050	-8.5304	-0.0020	0.4722	-0.6535		
46	0.02	-15.10	0.0155	0.0963	3.2464	-8.2804	-0.0360	0.4812	6.2129		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	120	0.85	1.7	0.0	B2WUF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	-15.94	-0.0009	0.1182	3.2674	-8.1758	-0.0250	0.4789	-131.3999		
48	0.02	-16.73	0.0089	0.0935	3.4486	-8.1717	-0.0250	0.4783	10.5101		
49	0.02	-17.59	0.0144	0.0658	3.4695	-8.1559	-0.0250	0.4796	4.5722		
50	0.02	-18.44	0.0502	-0.0793	3.6580	-8.3658	-0.0070	0.4541	-1.5793		
51	0.01	-19.31	0.0032	-0.0825	3.7822	-8.5637	-0.0090	0.4546	-25.7790		
52	0.01	-20.07	-0.0080	0.0072	3.9474	-8.7269	-0.0300	0.4462	-0.9000		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.20	0.85	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.86	-0.8571	-0.0379	-0.2247	0.0443	0.2622	0.0401	0.0011	0.0030	0.0287	0.0739
2	0.02	19.59	-0.8355	-0.0379	-0.2251	0.0453	0.2694	0.0468	0.0010	0.0028	0.0224	0.0597
3	0.02	18.86	-0.8182	-0.0369	-0.2190	0.0451	0.2677	0.0468	0.0010	0.0028	0.0224	0.0597
4	0.02	18.05	-0.7832	-0.0361	-0.2074	0.0461	0.2648	0.0354	0.0011	0.0004	0.0311	0.0112
5	0.02	17.21	-0.7357	-0.0349	-0.1944	0.0475	0.2643	0.0466	0.0014	0.0028	0.0300	0.0607
6	0.02	16.39	-0.6793	-0.0323	-0.1827	0.0475	0.2689	0.0433	0.0011	0.0025	0.0254	0.0584
7	0.02	15.62	-0.6138	-0.0300	-0.1702	0.0489	0.2773	0.0420	0.0012	0.0006	0.0298	0.0142
8	0.02	14.85	-0.5541	-0.0269	-0.1533	0.0485	0.2767	0.0439	0.0012	-0.0003	0.0273	-0.0062
9	0.02	14.08	-0.4952	-0.0260	-0.1365	0.0525	0.2757	0.0458	0.0020	-0.0015	0.0448	-0.0336
10	0.02	13.26	-0.4449	-0.0244	-0.1185	0.0548	0.2662	0.0331	0.0013	-0.0048	0.0393	-0.1441
11	0.01	12.54	-0.3865	-0.0217	-0.0992	0.0561	0.2566	0.0331	0.0014	-0.0047	0.0438	-0.1411
12	0.01	11.74	-0.3329	-0.0212	-0.0820	0.0637	0.2464	0.0380	0.0015	-0.0034	0.0408	-0.0905
13	0.01	10.96	-0.2868	-0.0185	-0.0643	0.0645	0.2241	0.0325	0.0012	-0.0017	0.0369	-0.0514
14	0.01	10.14	-0.2278	-0.0155	-0.0440	0.0680	0.1932	0.0325	0.0014	-0.0017	0.0446	-0.0514
15	0.01	9.36	-0.1898	-0.0147	-0.0324	0.0777	0.1709	0.0283	0.0013	-0.0055	0.0459	-0.1933
16	0.01	8.53	-0.1347	-0.0128	-0.0166	0.0954	0.1231	0.0246	0.0013	-0.0041	0.0528	-0.1668
17	0.01	7.75	-0.0935	-0.0107	0.0017	0.1150	-0.0187	0.0340	0.0015	-0.0006	0.0456	-0.0168
18	0.01	6.98	-0.0509	-0.0093	0.0135	0.1837	-0.2660	0.0229	0.0012	-0.0036	0.0524	-0.1559
19	0.01	6.16	-0.0108	-0.0082	0.0331	0.7638	-3.0649	0.0232	0.0016	-0.0051	0.0711	-0.2185
20	0.01	5.36	0.0220	-0.0077	0.0462	-0.3499	2.1014	0.0215	0.0014	-0.0046	0.0651	-0.2156
21	0.01	4.52	0.0844	-0.0074	0.0663	-0.0877	0.7858	0.0230	0.0015	-0.0039	0.0652	-0.1711
22	0.01	3.76	0.1292	-0.0068	0.0843	-0.0526	0.6529	0.0198	0.0011	-0.0048	0.0555	-0.2425
23	0.01	3.00	0.1912	-0.0058	0.1071	-0.0306	0.5602	0.0232	0.0013	-0.0049	0.0582	-0.2099
24	0.01	2.24	0.2321	-0.0048	0.1223	-0.0209	0.5271	0.0218	0.0012	-0.0059	0.0550	-0.2723
25	0.01	1.47	0.3117	-0.0029	0.1452	-0.0095	0.4657	0.0187	0.0013	-0.0074	0.0695	-0.3941
26	0.01	0.69	0.3597	-0.0029	0.1650	-0.0081	0.4586	0.0166	0.0010	-0.0057	0.0602	-0.3415
27	0.01	-0.03	0.4423	-0.0021	0.1867	-0.0047	0.4220	0.0151	0.0011	-0.0070	0.0761	-0.4615
28	0.01	-0.86	0.4852	-0.0018	0.2069	-0.0037	0.4264	0.0166	0.0010	-0.0063	0.0602	-0.3776
29	0.01	-1.65	0.5415	-0.0000	0.2209	-0.0001	0.4080	0.0100	0.0010	-0.0068	0.1050	-0.6768
30	0.01	-2.46	0.6043	0.0026	0.2409	0.0044	0.3986	0.0134	0.0009	-0.0068	0.0709	-0.5101
31	0.01	-3.28	0.6501	0.0046	0.2555	0.0071	0.3930	0.0089	0.0011	-0.0093	0.1292	-1.0488
32	0.01	-4.10	0.7322	0.0082	0.2708	0.0112	0.3698	0.0100	0.0010	-0.0068	0.1000	-0.6768
33	0.01	-4.86	0.7749	0.0112	0.2863	0.0144	0.3695	0.0087	0.0009	-0.0084	0.1092	-0.9656
34	0.01	-5.64	0.8243	0.0141	0.2990	0.0172	0.3627	0.0130	0.0006	-0.0050	0.0900	-0.3822
35	0.01	-6.41	0.8817	0.0169	0.3096	0.0192	0.3511	0.0071	0.0013	-0.0090	0.1831	-1.2724
36	0.01	-7.21	0.9251	0.0209	0.3213	0.0226	0.3473	0.0083	0.0006	-0.0066	0.0783	-0.7993
37	0.01	-8.02	0.9748	0.0246	0.3316	0.0253	0.3402	0.0042	0.0014	-0.0109	0.3333	-2.5954
38	0.01	-8.79	1.0138	0.0270	0.3436	0.0267	0.3389	0.0001	0.0016	-0.0086	16.4971	-85.6667
39	0.01	-9.61	1.0310	0.0394	0.3351	0.0382	0.3251	-0.0005	0.0032	-0.0141	-6.4988	28.1332
40	0.01	-10.36	1.0421	0.0465	0.3231	0.0447	0.3100	0.0030	0.0020	-0.0135	0.6832	-4.5001
41	0.01	-11.11	1.0651	0.0419	0.3315	0.0393	0.3112	0.0033	0.0019	-0.0147	0.5908	-4.4547
42	0.01	-11.89	1.0814	0.0413	0.3368	0.0382	0.3115	-0.0055	0.0021	-0.0139	-0.3908	2.5332
43	0.01	-12.69	1.0997	0.0459	0.3340	0.0417	0.3038	-0.0060	0.0040	-0.0197	-0.6665	3.2832
44	0.02	-13.42	1.0987	0.0495	0.3262	0.0450	0.2969	-0.0159	0.0069	-0.0229	-0.4370	1.4401
45	0.02	-14.30	1.0320	0.0474	0.3023	0.0460	0.2929	-0.0299	0.0085	-0.0296	-0.2859	0.9887
46	0.02	-15.10	0.9556	0.0346	0.2825	0.0362	0.2961	-0.0311	0.0068	-0.0306	-0.2202	0.9827

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		120	0.85	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-15.94	0.9295	0.0349	0.2804	0.0376	0.3017	-0.0220	0.0116	-0.0356	-0.5295	1.6196
48	0.02	-16.73	0.9275	0.0296	0.2806	0.0320	0.3025	-0.0156	0.0147	-0.0358	-0.9453	2.2948
49	0.02	-17.59	0.9379	0.0240	0.2840	0.0256	0.3028	0.0	0.0105	-0.0204	0.0105	-0.0204
50	0.02	-18.44	0.9993	0.0210	0.2569	0.0210	0.2971	0.0256	0.0002	0.0001	0.0078	0.0051
51	0.01	-19.31	1.0082	0.0213	0.2975	0.0212	0.2950	0.0183	0.0020	-0.0063	0.1093	-0.3444
52	0.01	-20.07	1.0096	0.0218	0.2978	0.0216	0.2950	0.0186	0.0056	-0.0097	0.3037	-0.5216

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	120	0.05	1.7	0.0	B240F12	0.0	10	0	10	0	FIXED			
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	0.02	19.86	-0.6950	-0.0285	-0.2670	0.0410	0.3841	-0.0045	0.0027	0.0009	-0.6110	-0.2001		
2	0.02	19.59	-0.6863	-0.0288	-0.2699	0.0420	0.3932	0.0030	-0.0018	-0.0007	-0.6166	-0.2335		
3	0.02	18.86	-0.6571	-0.0275	-0.2563	0.0419	0.3932	-0.0049	0.0030	0.0010	-0.6121	-0.1974		
4	0.02	18.05	-0.6385	-0.0273	-0.2501	0.0427	0.3918	0.0041	-0.0025	-0.0009	-0.6218	-0.2278		
5	0.02	17.21	-0.5972	-0.0243	-0.2361	0.0407	0.3953	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
6	0.02	16.39	-0.5524	-0.0213	-0.2219	0.0305	0.4016	0.0028	-0.0017	-0.0006	-0.6249	-0.2025		
7	0.02	15.62	-0.5023	-0.0201	-0.2104	0.0401	0.4188	0.0066	-0.0040	-0.0015	-0.6135	-0.2274		
8	0.02	14.85	-0.4437	-0.0189	-0.1911	0.0427	0.4308	0.0100	-0.0061	-0.0022	-0.6149	-0.2168		
9	0.02	14.08	-0.4041	-0.0183	-0.1691	0.0454	0.4183	0.0085	-0.0052	-0.0019	-0.6175	-0.2197		
10	0.02	13.26	-0.3403	-0.0180	-0.1515	0.0529	0.4463	0.0116	-0.0071	-0.0025	-0.6120	-0.2185		
11	0.01	12.54	-0.2873	-0.0162	-0.1307	0.0564	0.4550	0.0096	-0.0059	-0.0021	-0.6145	-0.2189		
12	0.01	11.74	-0.2364	-0.0153	-0.1151	0.0649	0.4868	0.0124	-0.0076	-0.0028	-0.6128	-0.2232		
13	0.01	10.96	-0.2036	-0.0135	-0.0944	0.0663	0.4639	0.0112	-0.0069	-0.0025	-0.6160	-0.2204		
14	0.01	10.14	-0.1362	-0.0108	-0.0745	0.0793	0.5469	0.0093	-0.0057	-0.0020	-0.6128	-0.2152		
15	0.01	9.36	-0.1064	-0.0105	-0.0575	0.0991	0.5409	0.0081	-0.0050	-0.0018	-0.6172	-0.2223		
16	0.01	8.53	-0.0455	-0.0050	-0.0426	0.1989	0.9354	0.0075	-0.0046	-0.0016	-0.6132	-0.2135		
17	0.01	7.75	-0.0082	-0.0072	-0.0224	0.8779	2.7357	0.0048	-0.0029	-0.0010	-0.6145	-0.2085		
18	0.01	6.98	0.0250	-0.0068	-0.0034	-0.2740	-0.1348	0.0051	-0.0031	-0.0011	-0.6175	-0.2158		
19	0.01	6.16	0.0692	-0.0049	0.0116	-0.0715	0.1670	0.0026	-0.0016	-0.0005	-0.6153	-0.2052		
20	0.01	5.36	0.1127	-0.0047	0.0266	-0.0421	0.2365	0.0030	-0.0018	-0.0006	-0.6166	-0.2001		
21	0.01	4.52	0.1599	-0.0044	0.0514	-0.0275	0.3213	0.0016	-0.0010	-0.0004	-0.6249	-0.2293		
22	0.01	3.76	0.2076	-0.0036	0.0668	-0.0173	0.3217	0.0011	-0.0006	-0.0002	-0.5908	-0.2122		
23	0.01	3.00	0.2604	-0.0025	0.0401	-0.0096	0.3459	0.0007	-0.0004	-0.0002	-0.5713	-0.2382		
24	0.01	2.24	0.3189	-0.0014	0.1091	-0.0044	0.3420	0.0003	-0.0002	-0.0001	-0.6665	-0.3335		
25	0.01	1.47	0.3716	0.0004	0.1321	0.0012	0.3555	0.0004	-0.0002	-0.0001	-0.6249	-0.1668		
26	0.01	0.69	0.4353	0.0016	0.1570	0.0038	0.3605	0.0	0.0	0.0	0.0	0.0		
27	0.01	-0.03	0.4862	0.0025	0.1796	0.0051	0.3694	-0.0004	0.0002	0.0001	-0.6249	-0.1668		
28	0.01	-0.86	0.5444	0.0033	0.1973	0.0062	0.3624	0.0	0.0	0.0	0.0	0.0		
29	0.01	-1.65	0.6048	0.0054	0.2167	0.0090	0.3583	-0.0001	0.0000	0.0001	-0.4999	-0.6668		
30	0.01	-2.46	0.6561	0.0078	0.2348	0.0119	0.3579	0.0	0.0	0.0	0.0	0.0		
31	0.01	-3.28	0.7082	0.0105	0.2511	0.0148	0.3545	-0.0001	0.0000	0.0001	-0.4999	-0.6668		
32	0.01	-4.10	0.7662	0.0145	0.2674	0.0190	0.3490	0.0001	-0.0000	-0.0001	-0.4999	-0.6668		
33	0.01	-4.86	0.8253	0.0181	0.2817	0.0220	0.3413	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
34	0.01	-5.64	0.8701	0.0210	0.2923	0.0241	0.3360	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
35	0.01	-6.41	0.9267	0.0246	0.3036	0.0265	0.3276	0.0	0.0	0.0	0.0	0.0		
36	0.01	-7.21	0.9662	0.0288	0.3162	0.0290	0.3272	-0.0004	0.0002	0.0001	-0.6249	-0.1668		
37	0.01	-8.02	1.0165	0.0327	0.3252	0.0322	0.3199	0.0006	-0.0003	-0.0001	-0.5832	-0.1668		
38	0.01	-8.79	1.0566	0.0359	0.3352	0.0340	0.3172	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
39	0.01	-9.61	1.0962	0.0403	0.3394	0.0368	0.3096	0.0008	-0.0004	-0.0002	-0.5624	-0.2418		
40	0.01	-10.36	1.0539	0.0547	0.3148	0.0514	0.2987	-0.0004	0.0002	0.0001	-0.6249	-0.1668		
41	0.01	-11.11	1.0877	0.0519	0.3227	0.0477	0.2967	-0.0006	0.0003	0.0001	-0.5832	-0.1668		
42	0.01	-11.89	1.1157	0.0499	0.3254	0.0447	0.2916	-0.0008	0.0005	0.0001	-0.6249	-0.1668		
43	0.01	-12.69	1.1525	0.0522	0.3261	0.0453	0.2830	-0.0008	0.0004	0.0001	-0.5624	-0.1668		
44	0.02	-13.42	1.1720	0.0548	0.3230	0.0467	0.2756	-0.0006	-0.0003	-0.0001	-0.5832	-0.1668		
45	0.02	-14.30	1.1663	0.0573	0.3175	0.0491	0.2723	0.0007	-0.0004	-0.0002	-0.5713	-0.2382		
46	0.02	-15.10	1.1512	0.0557	0.3076	0.0484	0.2672	-0.0003	0.0002	0.0001	-0.6665	-0.3335		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	120	0.85	1.7	0.0	82W0F12	0.0	10	0	10	0	FIXED			
POINT	ALPHA	BETA	CNF 3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	0.02	-15.94	1.1121	0.0527	0.2981	0.0474	0.2680	0.0	0.0	0.0	0.0	0.0	0.0	
48	0.02	-16.73	1.0984	0.0465	0.2557	0.0427	0.2692	0.0003	-0.0002	-0.0001	-0.6665	-0.3335		
49	0.02	-17.59	1.0526	0.0331	0.2923	0.0315	0.2776	0.0003	-0.0002	-0.0001	-0.6665	-0.3335		
50	0.02	-18.44	1.0245	0.0279	0.2844	0.0272	0.2780	0.0006	-0.0003	-0.0001	-0.5832	-0.1668		
51	0.01	-19.31	1.0461	0.0281	0.2932	0.0269	0.2803	0.0	0.0	0.0	0.0	0.0		
52	0.01	-20.07	1.0931	0.0282	0.3049	0.0258	0.2790	-0.0001	0.0000	0.0001	-0.4999	-0.6668		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	121	0.92	1.7	0.0	B2W0F12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.76	-0.0280	0.1072	-3.0941	4.7467	0.0060	-0.1200	-3.8286		
2	0.03	19.77	0.0081	0.1586	-3.0550	4.7679	-0.0010	-0.1157	19.5876		
3	0.03	19.76	0.0158	0.1579	-3.1010	4.7333	-0.0030	-0.1226	9.9924		
4	0.02	19.22	-0.0210	0.1434	-2.9903	4.6514	0.0070	-0.1050	-6.8286		
5	0.02	18.47	0.0262	0.0063	-2.8424	4.5183	-0.0040	-0.1075	0.2412		
6	0.02	16.79	0.0101	0.0918	-2.5308	3.9060	-0.0050	-0.0717	9.0950		
7	0.02	15.99	-0.0164	0.0819	-2.2907	3.5323	0.0040	-0.0564	-4.9976		
8	0.01	15.23	-0.0290	0.0846	-2.1051	3.1671	0.0010	-0.0358	-2.9172		
9	0.02	14.44	-0.0107	0.1050	-1.9396	2.7905	0.0050	-0.0167	-9.8112		
10	0.02	13.66	-0.0115	0.1101	-1.7374	2.3223	0.0080	0.0107	-9.5739		
11	0.02	12.89	0.0016	0.0738	-1.5720	1.9148	0.0110	0.0340	46.1000		
12	0.01	12.12	-0.0165	0.0501	-1.3884	1.5068	0.0120	0.0551	-3.0364		
13	0.01	11.31	-0.0048	0.0337	-1.1848	1.0839	0.0110	0.0770	-7.0250		
14	0.01	10.55	0.0085	-0.0009	-1.0236	0.7571	0.0150	0.1006	-0.1059		
15	0.01	9.71	0.0095	-0.0183	-0.8848	0.4378	0.0140	0.1154	-1.9263		
16	0.01	8.95	0.0060	-0.0164	-0.7424	0.1505	0.0130	0.1302	-2.7333		
17	0.01	8.12	0.0203	-0.0384	-0.6343	-0.1498	0.0170	0.1482	-1.8926		
18	0.01	7.33	0.0284	-0.0698	-0.4398	-0.4401	0.0180	0.1616	-2.4563		
19	0.01	6.53	0.0177	-0.0508	-0.3216	-0.7517	0.0180	0.1740	-2.8889		
20	0.01	5.73	0.0297	-0.0756	-0.1708	-1.0537	0.0160	0.1820	-2.5448		
21	0.01	4.95	0.0403	-0.0914	-0.0423	-1.3546	0.0130	0.1893	-2.2685		
22	0.01	4.13	0.0233	-0.0616	0.0867	-1.7118	0.0140	0.2016	-2.6446		
23	0.01	3.37	0.0264	-0.0869	0.1691	-2.0005	0.0160	0.2100	-3.2439		
24	0.01	2.60	0.0401	-0.1061	0.3882	-2.4683	0.0120	0.2204	-2.6469		
25	0.01	1.82	0.0334	-0.1067	0.4924	-2.8271	0.0100	0.2300	-3.1904		
26	0.01	1.03	0.0443	-0.1210	0.6882	-3.3062	0.0120	0.2517	-2.7318		
27	0.01	0.31	0.0380	-0.1112	0.8144	-3.7458	0.0160	0.2655	-2.9263		
28	0.01	-0.44	0.0413	-0.1338	0.9765	-4.1187	0.0170	0.2737	-3.2402		
29	0.01	-1.27	0.0417	-0.1224	1.1738	-4.5860	0.0130	0.2859	-2.9348		
30	0.01	-2.06	0.0389	-0.1084	1.3101	-4.9458	0.0100	0.2994	-2.7882		
31	0.01	-2.90	0.0492	-0.1449	1.3868	-5.3111	0.0120	0.3155	-2.9447		
32	0.01	-3.69	0.0415	-0.1321	1.5591	-5.7023	0.0130	0.3315	-3.1831		
33	0.01	-4.51	0.0301	-0.1171	1.7462	-6.1857	0.0150	0.3463	-3.8917		
34	0.01	-5.26	0.0391	-0.1467	1.8418	-6.5219	0.0140	0.3610	-3.7529		
35	0.01	-6.07	0.0486	-0.1750	1.9894	-6.9247	0.0100	0.3829	-3.6016		
36	0.01	-6.85	0.0475	-0.1875	2.1316	-7.3080	0.0110	0.3932	-3.9474		
37	0.01	-7.68	0.0587	-0.1702	2.3007	-7.7684	0.0090	0.4064	-2.8991		
38	0.01	-8.44	0.0599	-0.2228	2.4346	-8.0788	0.0150	0.4166	-3.7205		
39	0.01	-9.25	0.0600	-0.2340	2.6256	-8.4821	0.0180	0.4284	-3.9000		
40	0.01	-10.03	0.0611	-0.2245	2.7364	-8.7834	0.0130	0.4314	-3.6750		
41	0.01	-10.81	0.0483	-0.1956	2.8979	-8.9175	0.0150	0.4323	-4.0501		
42	0.01	-11.54	0.0804	-0.2395	2.9962	-8.8731	0.0120	0.4456	-2.9796		
43	0.01	-12.33	0.0693	-0.1540	3.0754	-8.9010	0.0060	0.4680	-2.2225		
44	0.01	-13.06	0.0528	-0.1549	3.1497	-8.9800	-0.0060	0.4686	-2.9341		
45	0.01	-13.90	0.0466	-0.1272	3.2178	-8.8293	0.0020	0.4827	-2.7305		
46	0.02	-14.72	0.0216	0.0508	3.2440	-8.4970	-0.0320	0.4903	2.3500		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	121	0.92	1.7	0.0	B2W0F12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	-15.50	0.0515	-0.0511	3.3046	-8.4469	-0.0350	0.4945	-1.1202		
48	0.01	-16.33	0.0245	-0.0523	3.4234	-8.3042	-0.0260	0.4948	-2.1347		
49	0.02	-17.18	0.0439	-0.0774	3.5244	-8.4318	-0.0160	0.4965	-1.7045		
50	0.01	-18.02	0.0389	-0.0695	3.7463	-8.6904	-0.0260	0.4802	-1.7656		
51	0.01	-18.89	0.0239	-0.0435	3.8986	-8.8646	-0.0080	0.4790	-1.8184		
52	0.01	-19.67	0.0472	-0.1151	4.0658	-9.1726	-0.0140	0.4808	-2.4381		

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 121	MACH 0.92	RX10-6 1.7	PH1 0.0	CONF B2WOF12	L 0.0	DEL				TRANSITION	
							10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	Cs1	XCPF1	YCPF1	CNF2	CH2	Cs2	XCPF2	YCPF2
1	0.02	19.76	-0.8719	-0.0234	-0.2231	0.0269	0.2558	0.0675	0.0002	0.0049	0.0037	0.0725
2	0.03	19.77	-0.8958	-0.0239	-0.2253	0.0267	0.2515	0.0581	0.0007	-0.0010	0.0120	-0.0179
3	0.03	19.76	-0.8932	-0.0245	-0.2247	0.0274	0.2515	0.0635	0.0	0.0018	0.0	0.0277
4	0.02	19.22	-0.8775	-0.0238	-0.2221	0.0271	0.2531	0.0621	0.0008	0.0004	0.0129	0.0063
5	0.02	18.47	0.0	0.0	0.0	0.0	0.0	0.0065	0.0	-0.0018	0.0	-0.2822
6	0.02	16.79	-0.7729	-0.0197	-0.1964	0.0255	0.2542	0.0593	0.0007	-0.0006	0.0126	-0.0108
7	0.02	15.99	-0.7063	-0.0173	-0.1802	0.0246	0.2552	0.0591	0.0004	0.0004	0.0076	0.0066
8	0.01	15.23	-0.6611	-0.0166	-0.1663	0.0251	0.2515	0.0597	0.0006	-0.0026	0.0100	-0.0437
9	0.02	14.44	-0.5889	-0.0165	-0.1478	0.0280	0.2510	0.0568	0.0008	-0.0034	0.0150	-0.0594
10	0.02	13.66	-0.5235	-0.0177	-0.1292	0.0338	0.2469	0.0520	0.0008	-0.0031	0.0154	-0.0591
11	0.02	12.89	-0.4574	-0.0189	-0.1045	0.0414	0.2285	0.0525	0.0016	-0.0057	0.0314	-0.1087
12	0.01	12.12	-0.4025	-0.0209	-0.0817	0.0520	0.2031	0.0422	0.0013	-0.0067	0.0320	-0.1597
13	0.01	11.31	-0.3535	-0.0191	-0.0646	0.0541	0.1828	0.0521	0.0009	-0.0039	0.0173	-0.0756
14	0.01	10.55	-0.3029	-0.0168	-0.0512	0.0554	0.1689	0.0519	0.0012	-0.0041	0.0241	-0.0791
15	0.01	9.71	-0.2553	-0.0158	-0.0305	0.0619	0.1193	0.0514	0.0018	-0.0029	0.0360	-0.0555
16	0.01	8.95	-0.2134	-0.0142	-0.0205	0.0668	0.0961	0.0404	0.0008	-0.0066	0.0210	-0.1643
17	0.01	8.12	-0.1609	-0.0117	-0.0034	0.0727	0.0212	0.0459	0.0009	-0.0048	0.0207	-0.1047
18	0.01	7.33	-0.1131	-0.0115	0.0127	0.1017	-0.1124	0.0458	0.0012	-0.0047	0.0273	-0.1035
19	0.01	6.53	-0.0741	-0.0101	0.0327	0.1363	-0.4414	0.0356	0.0010	-0.0059	0.0281	-0.1668
20	0.01	5.73	-0.0384	-0.0098	0.0468	0.2565	-1.2189	0.0400	0.0006	-0.0055	0.0162	-0.1368
21	0.01	4.95	0.0159	-0.0097	0.0643	-0.6100	4.0439	0.0430	0.0011	-0.0058	0.0267	-0.1342
22	0.01	4.13	0.0656	-0.0097	0.0835	-0.1486	1.2738	0.0301	0.0009	-0.0081	0.0316	-0.2681
23	0.01	3.37	0.1108	-0.0107	0.1041	-0.0966	0.9397	0.0304	0.0010	-0.0094	0.0345	-0.3082
24	0.01	2.60	0.1744	-0.0120	0.1284	-0.0688	0.7392	0.0343	0.0010	-0.0070	0.0291	-0.2032
25	0.01	1.82	0.2276	-0.0130	0.1477	-0.0573	0.6491	0.0346	0.0008	-0.0086	0.0246	-0.2477
26	0.01	1.03	0.2955	-0.0149	0.1707	-0.0506	0.5775	0.0305	0.0009	-0.0097	0.0295	-0.3192
27	0.01	0.31	0.3743	-0.0159	0.1971	-0.0426	0.5266	0.0314	0.0009	-0.0074	0.0302	-0.2368
28	0.01	-0.44	0.4288	-0.0155	0.2157	-0.0361	0.5030	0.0289	0.0006	-0.0091	0.0208	-0.3138
29	0.01	-1.27	0.5013	-0.0149	0.2381	-0.0298	0.4750	0.0289	0.0010	-0.0093	0.0346	-0.3208
30	0.01	-2.06	0.5576	-0.0122	0.2540	-0.0219	0.4555	0.0302	0.0009	-0.0081	0.0315	-0.2694
31	0.01	-2.90	0.6213	-0.0111	0.2687	-0.0179	0.4325	0.0232	0.0009	-0.0100	0.0409	-0.4297
32	0.01	-3.69	0.6723	-0.0092	0.2854	-0.0138	0.4245	0.0235	0.0009	-0.0111	0.0404	-0.4710
33	0.01	-4.51	0.7349	-0.0058	0.3014	-0.0079	0.4101	0.0232	0.0011	-0.0100	0.0474	-0.4297
34	0.01	-5.26	0.7924	-0.0037	0.3121	-0.0047	0.3939	0.0191	0.0011	-0.0116	0.0576	-0.6092
35	0.01	-6.07	0.8457	-0.0018	0.3248	-0.0021	0.3840	0.0205	0.0011	-0.0110	0.0561	-0.5351
36	0.01	-6.85	0.8904	-0.0004	0.3369	-0.0004	0.3784	0.0194	0.0008	-0.0125	0.0438	-0.6462
37	0.01	-7.68	0.9537	0.0017	0.3525	0.0018	0.3700	0.0211	0.0002	-0.0090	0.0108	-0.3897
38	0.01	-8.44	0.9799	0.0026	0.3646	0.0027	0.3721	0.0220	0.0011	-0.0109	0.0500	-0.4941
39	0.01	-9.25	1.0294	0.0047	0.3737	0.0046	0.3630	0.0224	0.0012	-0.0125	0.0558	-0.5596
40	0.01	-10.03	1.0569	0.0130	0.3714	0.0123	0.3514	0.0232	0.0026	-0.0108	0.1142	-0.4642
41	0.01	-10.81	1.0726	0.0242	0.3641	0.0226	0.3395	0.0193	0.0018	-0.0124	0.0932	-0.6409
42	0.01	-11.54	1.0733	0.0298	0.3606	0.0276	0.3360	0.0190	0.0019	-0.0113	0.1000	-0.5931
43	0.01	-12.33	1.0776	0.0284	0.3596	0.0264	0.3337	0.0191	0.0016	-0.0113	0.0864	-0.5935
44	0.01	-13.06	1.0572	0.0323	0.3443	0.0305	0.3256	0.0153	0.0019	-0.0144	0.1242	-0.9413
45	0.01	-13.90	1.0307	0.0352	0.3300	0.0342	0.3201	0.0159	0.0060	-0.0192	0.3773	-1.2077
46	0.02	-14.72	0.9519	0.0282	0.3033	0.0297	0.3186	0.0029	0.0047	-0.0209	1.6376	-7.2185

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	121	0.92	1.7	0.0	BZMDF12	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-15.56	0.9283	0.0239	0.3016	0.0257	0.3249	0.0187	0.0067	-0.0186	0.3609	-0.9930
48	0.01	-16.33	0.9412	0.0210	0.2959	0.0223	0.3144	0.0175	0.0073	-0.0205	0.4171	-1.1696
49	0.02	-17.18	0.9796	0.0198	0.3033	0.0202	0.3096	0.0336	0.0030	-0.0092	0.0908	-0.2739
50	0.01	-18.02	0.9924	0.0159	0.3113	0.0160	0.3137	0.0372	0.0001	-0.0031	0.0040	-0.0835
51	0.01	-18.89	1.0296	0.0124	0.3184	0.0120	0.3092	0.0304	-0.0012	-0.0059	-0.0411	-0.1931
52	0.01	-19.67	1.0433	0.0105	0.3238	0.0101	0.3104	0.0325	0.0052	-0.0123	0.1615	-0.3776

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	121	0.92	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CM3	C83	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4	
1	0.02	19.76	-0.6920	-0.0122	-0.2937	0.0176	0.4244	0.0153	-0.0094	-0.0033	-0.6175	-0.2158	
2	0.03	19.77	-0.6858	-0.0122	-0.2907	0.0179	0.4239	0.0046	-0.0028	-0.0010	-0.6195	-0.2103	
3	0.03	19.76	-0.6883	-0.0125	-0.2885	0.0182	0.4192	0.0027	-0.0017	-0.0006	-0.6295	-0.2223	
4	0.02	19.22	-0.6894	-0.0125	-0.2862	0.0182	0.4152	0.0045	-0.0058	-0.0020	-0.6157	-0.2142	
5	0.02	18.47	0.0084	0.0	-0.0017	0.0	-0.2025	0.2294	-0.0010	-2.5601	-0.0044	-11.1620	
6	0.02	16.79	-0.5680	-0.0069	-0.2589	0.0121	0.4557	0.0027	-0.0016	-0.0006	-0.6110	-0.2223	
7	0.02	15.99	-0.5182	-0.0065	-0.2422	0.0126	0.4673	0.0101	-0.0062	-0.0022	-0.6138	-0.2212	
8	0.01	15.23	-0.4669	-0.0068	-0.2234	0.0146	0.4784	0.0075	-0.0046	-0.0016	-0.6132	-0.2135	
9	0.02	14.44	-0.4067	-0.0081	-0.2004	0.0199	0.4928	0.0134	-0.0082	-0.0029	-0.6156	-0.2190	
10	0.02	13.66	-0.3587	-0.0088	-0.1805	0.0247	0.5032	0.0105	-0.0065	-0.0023	-0.6189	-0.2192	
11	0.02	12.89	-0.3014	-0.0111	-0.1528	0.0370	0.5070	0.0153	-0.0094	-0.0034	-0.6143	-0.2223	
12	0.01	12.12	-0.2455	-0.0142	-0.1300	0.0580	0.5295	0.0127	-0.0078	-0.0028	-0.6180	-0.2180	
13	0.01	11.31	-0.1901	-0.0140	-0.1115	0.0739	0.5868	0.0141	-0.0087	-0.0031	-0.6169	-0.2200	
14	0.01	10.55	-0.1559	-0.0119	-0.0941	0.0763	0.6039	0.0168	-0.0103	-0.0037	-0.6160	-0.2204	
15	0.01	9.71	-0.1076	-0.0115	-0.0771	0.1073	0.7170	0.0139	-0.0086	-0.0030	-0.6186	-0.2135	
16	0.01	8.95	-0.0573	-0.0103	-0.0570	0.1806	0.9946	0.0102	-0.0063	-0.0022	-0.6175	-0.2158	
17	0.01	8.12	-0.0140	-0.0086	-0.0376	0.3177	2.6832	0.0121	-0.0074	-0.0027	-0.6156	-0.2205	
18	0.01	7.33	0.0279	-0.0080	-0.0237	-0.2885	-0.8496	0.0095	-0.0058	-0.0020	-0.6157	-0.2142	
19	0.01	6.53	0.0786	-0.0076	-0.0058	-0.0473	-0.0734	0.0063	-0.0038	-0.0014	-0.6110	-0.2223	
20	0.01	5.73	0.1219	-0.0071	-0.0111	-0.0582	0.0912	0.0071	-0.0043	-0.0015	-0.6126	-0.2161	
21	0.01	4.95	0.1630	-0.0065	0.0326	-0.0399	0.2001	0.0049	-0.0030	-0.0011	-0.6223	-0.2178	
22	0.01	4.13	0.2025	-0.0067	0.0565	-0.0331	0.2769	0.0043	-0.0026	-0.0010	-0.6162	-0.2249	
23	0.01	3.37	0.2401	-0.0071	0.0768	-0.0298	0.3199	0.0030	-0.0018	-0.0007	-0.5999	-0.2335	
24	0.01	2.60	0.3203	-0.0087	0.1004	-0.0271	0.3136	0.0023	-0.0014	-0.0005	-0.6086	-0.2320	
25	0.01	1.82	0.3622	-0.0099	0.1260	-0.0275	0.3478	0.0018	-0.0011	-0.0004	-0.6388	-0.2223	
26	0.01	1.03	0.4242	-0.0111	0.1504	-0.0262	0.3544	0.0020	-0.0012	-0.0004	-0.6249	-0.2168	
27	0.01	0.31	0.4892	-0.0119	0.1757	-0.0243	0.3592	0.0010	-0.0006	-0.0003	-0.5999	-0.2668	
28	0.01	-0.44	0.5473	-0.0112	0.1956	-0.0205	0.3573	0.0018	-0.0011	-0.0004	-0.6388	-0.2223	
29	0.01	-1.27	0.6113	-0.0103	0.2173	-0.0169	0.3555	0.0013	-0.0007	-0.0003	-0.5768	-0.2052	
30	0.01	-2.06	0.6677	-0.0083	0.2375	-0.0125	0.3557	0.0010	-0.0006	-0.0003	-0.5999	-0.2668	
31	0.01	-2.90	0.7197	-0.0059	0.2565	-0.0063	0.3564	0.0016	-0.0009	-0.0004	-0.5936	-0.2293	
32	0.01	-3.69	0.7748	-0.0038	0.2677	-0.0049	0.3455	0.0013	-0.0008	-0.0003	-0.6153	-0.2052	
33	0.01	-4.51	0.8221	-0.0009	0.2876	-0.0012	0.3449	0.0013	-0.0007	-0.0003	-0.5768	-0.2052	
34	0.01	-5.26	0.8788	0.0025	0.2990	0.0028	0.3403	0.0010	-0.0006	-0.0003	-0.5999	-0.2668	
35	0.01	-6.07	0.9362	0.0043	0.3164	0.0046	0.3379	0.0010	-0.0006	-0.0003	-0.5999	-0.2668	
36	0.01	-6.85	0.9738	0.0066	0.3268	0.0068	0.3356	0.0019	-0.0011	-0.0005	-0.6052	-0.2457	
37	0.01	-7.68	1.0258	0.0101	0.3383	0.0098	0.3248	0.0025	-0.0003	-0.0001	-0.6499	-0.2668	
38	0.01	-8.44	1.0718	0.0118	0.3484	0.0111	0.3256	0.0029	-0.0005	-0.0002	-0.6110	-0.2223	
39	0.01	-9.25	1.1004	0.0159	0.3551	0.0144	0.3227	0.0023	-0.0001	-0.0001	-0.4999	-0.3335	
40	0.01	-10.03	1.1415	0.0219	0.3524	0.0192	0.3087	0.0014	-0.0008	-0.0003	-0.6070	-0.2382	
41	0.01	-10.81	1.1552	0.0332	0.3438	0.0287	0.2976	0.0005	-0.0003	-0.0001	-0.6999	-0.2668	
42	0.01	-11.54	1.1877	0.0384	0.3392	0.0324	0.2856	-0.0003	0.0001	0.0001	-0.4999	-0.3335	
43	0.01	-12.33	1.1739	0.0368	0.3374	0.0314	0.2875	0.0	0.0	0.0	0.0	0.0	
44	0.01	-13.06	1.1769	0.0391	0.3281	0.0333	0.2788	0.0001	-0.0001	0.0000	-0.9998	0.3332	
45	0.01	-13.90	1.1741	0.0435	0.3155	0.0370	0.2691	-0.0003	0.0001	0.0001	-0.4999	-0.3335	
46	0.02	-14.72	1.1564	0.0434	0.3054	0.0379	0.2641	0.0001	-0.0000	-0.0001	-0.4999	-0.6668	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	MACH	RA	10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	121	0.92	1.7	0.0	BZMOF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.56	1.1928	0.0411	0.3015	0.0363	0.2661	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
48	0.01	-16.33	1.1086	0.0342	0.2928	0.0308	0.2641	-0.0003	0.0001	0.0001	-0.4999	-0.3335
49	0.02	-17.18	1.0832	0.0245	0.2935	0.0226	0.2709	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
50	0.01	-18.04	1.1030	0.0216	0.2589	0.0196	0.2710	0.0009	-0.0006	-0.0002	-0.6665	-0.2223
51	0.01	-18.89	1.1168	0.0173	0.3064	0.0155	0.2744	-0.0003	0.0001	0.0001	-0.4999	-0.3335
52	0.01	-19.67	1.1610	0.0162	0.3163	0.0140	0.2724	0.0005	-0.0003	-0.0001	-0.6999	-0.2668

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6 122 0.97 1.7				0.0	B2WOF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.79	-0.0843	0.2970	-3.0635	4.5069	0.0040	-0.0858	-3.5234		
2	0.02	19.78	-0.0360	0.1644	-3.1160	4.4104	0.0	-0.0775	-4.5667		
3	0.02	19.79	-0.0062	0.0867	-3.1330	4.4662	-0.0030	-0.0780	-13.9806		
4	0.02	19.07	0.0131	0.0007	-3.0765	4.3491	-0.0070	-0.0628	0.0504		
5	0.02	18.29	-0.0130	0.1042	-2.9228	4.1879	-0.0050	-0.0550	-8.0154		
6	0.02	17.47	-0.0128	0.1129	-2.7760	3.9084	-0.0010	-0.0366	-8.6219		
7	0.02	16.68	-0.0018	0.1365	-2.5438	3.5353	-0.0030	-0.0118	-75.6444		
8	0.02	15.90	-0.0128	0.1249	-2.3218	3.1792	-0.0030	0.0138	-9.7594		
9	0.02	15.13	-0.0077	0.1318	-2.1544	2.8822	0.0050	0.0248	-17.1143		
10	0.02	14.33	-0.0030	0.0612	-1.9568	2.5346	0.0110	0.0486	-20.4000		
11	0.02	13.56	-0.0255	0.1227	-1.7382	2.1625	0.0040	0.0668	-4.8118		
12	0.02	12.84	-0.0067	0.1104	-1.5239	1.8435	0.0090	0.0890	-16.4746		
13	0.02	12.03	-0.0017	0.0834	-1.4183	1.5117	0.0100	0.1060	-49.0470		
14	0.02	11.21	-0.0071	0.0719	-1.2079	1.1852	0.0130	0.1224	-10.1324		
15	0.02	10.48	0.0129	0.0269	-1.0397	0.8556	0.0110	0.1406	2.0884		
16	0.01	9.64	0.0113	-0.0258	-0.8714	0.4920	0.0080	0.1606	-2.2850		
17	0.01	8.87	0.0130	-0.0162	-0.7628	0.1850	0.0150	0.1724	-1.2462		
18	0.01	8.03	0.0314	-0.0580	-0.6505	-0.0702	0.0140	0.1843	-1.8459		
19	0.01	7.26	0.0096	-0.0354	-0.4758	-0.4247	0.0170	0.2017	-3.6917		
20	0.01	6.45	0.0158	-0.0591	-0.3789	-0.7124	0.0170	0.2113	-3.7418		
21	0.01	5.64	0.0117	-0.0614	-0.2146	-1.0114	0.0150	0.2221	-5.2462		
22	0.01	4.83	0.0315	-0.0661	-0.0555	-1.3361	0.0140	0.2323	-2.0924		
23	0.01	4.05	0.0322	-0.0981	0.0992	-1.6887	0.0140	0.2454	-3.0460		
24	0.01	3.27	0.0364	-0.0879	0.1989	-2.0392	0.0140	0.2551	-2.4165		
25	0.01	2.53	0.0367	-0.1134	0.3291	-2.3964	0.0160	0.2705	-3.0834		
26	0.01	1.71	0.0375	-0.1125	0.5203	-2.8112	0.0130	0.2890	-3.0000		
27	0.01	0.96	0.0491	-0.1427	0.6451	-3.2479	0.0160	0.3038	-2.9071		
28	0.01	0.20	0.0576	-0.1436	0.8092	-3.6095	0.0180	0.3155	-2.4937		
29	0.01	-0.57	0.0431	-0.1303	0.5102	-4.0169	0.0160	0.3358	-3.0241		
30	0.01	-1.40	0.0454	-0.1485	1.1147	-4.4781	0.0170	0.3513	-3.2722		
31	0.01	-2.19	0.0425	-0.1325	1.2665	-4.9077	0.0170	0.3607	-3.1176		
32	0.01	-3.01	0.0567	-0.1494	1.4133	-5.2912	0.0150	0.3748	-2.6346		
33	0.01	-3.81	0.0532	-0.1535	1.5298	-5.6333	0.0150	0.3845	-2.8650		
34	0.01	-4.62	0.0460	-0.1372	1.7503	-6.1509	0.0140	0.4081	-2.8283		
35	0.01	-5.36	0.0438	-0.1553	1.8659	-6.4817	0.0130	0.4190	-3.5461		
36	0.01	-6.19	0.0657	-0.1980	1.9886	-6.8666	0.0140	0.4347	-3.0134		
37	0.01	-6.97	0.0676	-0.1766	2.1738	-7.3018	0.0140	0.4516	-2.6130		
38	0.01	-7.78	0.0440	-0.1336	2.3651	-7.8075	0.0110	0.4586	-3.0364		
39	0.01	-8.56	0.0460	-0.1604	2.4930	-8.1546	0.0150	0.4694	-3.6174		
40	0.01	-9.37	0.0533	-0.1806	2.6454	-8.5176	0.0130	0.4846	-3.3887		
41	0.01	-10.16	0.0594	-0.2211	2.7454	-8.8910	0.0150	0.5059	-3.7232		
42	0.01	-10.93	0.0564	-0.2169	2.9691	-9.2541	0.0130	0.5231	-3.8468		
43	0.0	-11.67	0.0446	-0.1864	3.1232	-9.5828	0.0160	0.5327	-4.1803		
44	0.01	-12.45	0.0650	-0.2530	3.2606	-9.6761	0.0130	0.5294	-3.8923		
45	0.01	-13.19	0.0431	-0.1243	3.3532	-9.4498	-0.0010	0.5380	-2.8849		
46	0.01	-14.06	0.0356	-0.1208	3.4330	-9.5535	-0.0040	0.5447	-3.3944		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		122	0.97	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.01	-14.85	0.0441	-0.1347	3.5232	-9.3989	-0.0150	0.5466	-3.0553			
48	0.01	-15.66	0.0342	-0.0789	3.5913	-9.1513	-0.0440	0.5502	-2.3064			
49	0.02	-16.45	0.0262	-0.0047	3.6603	-9.1339	-0.0540	0.5501	-0.3695			
50	0.01	-17.30	0.0536	-0.1550	3.8065	-9.1436	-0.0280	0.5455	-2.8925			
51	0.01	-18.13	0.0395	-0.1293	3.9215	-9.0476	-0.0170	0.5327	-3.2734			
52	0.01	-19.00	0.0477	-0.1868	4.0637	-9.0857	-0.0150	0.5175	-3.9157			
53	0.01	-19.76	0.0538	-0.1123	4.2664	-9.2536	-0.0250	0.5066	-2.0877			

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	122	0.97	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.02	19.79	-0.8871	-0.0201	-0.2164	0.0227	0.2440	0.0612	-0.0001	-0.0032	-0.0016	-0.0524
2	0.02	19.78	-0.8876	-0.0198	-0.2158	0.0223	0.2431	0.0673	-0.0001	0.0013	-0.0022	0.0197
3	0.02	19.79	-0.8875	-0.0202	-0.2166	0.0228	0.2440	0.0753	-0.0010	0.0038	-0.0139	0.0503
4	0.02	19.07	-0.8836	-0.0201	-0.2170	0.0228	0.2455	0.0730	0.0	0.0007	0.0	0.0099
5	0.02	18.29	-0.8479	-0.0200	-0.2100	0.0236	0.2476	0.0730	0.0001	0.0007	0.0014	0.0099
6	0.02	17.47	-0.7907	-0.0202	-0.1968	0.0255	0.2489	0.0713	0.0002	0.0020	0.0028	0.0275
7	0.02	16.68	-0.7530	-0.0203	-0.1821	0.0270	0.2419	0.0648	0.0007	-0.0007	0.0108	-0.0109
8	0.02	15.90	-0.6962	-0.0209	-0.1682	0.0300	0.2416	0.0637	0.0007	-0.0022	0.0110	-0.0341
9	0.02	15.13	-0.6366	-0.0206	-0.1513	0.0324	0.2377	0.0610	0.0006	-0.0026	0.0098	-0.0422
10	0.02	14.33	-0.5827	-0.0192	-0.1369	0.0330	0.2349	0.0625	0.0014	-0.0044	0.0224	-0.0700
11	0.02	13.56	-0.5344	-0.0185	-0.1189	0.0346	0.2225	0.0584	0.0011	-0.0046	0.0197	-0.0795
12	0.02	12.84	-0.4786	-0.0174	-0.1024	0.0363	0.2139	0.0574	0.0014	-0.0063	0.0253	-0.1093
13	0.02	12.03	-0.4374	-0.0161	-0.0862	0.0368	0.1970	0.0602	0.0011	-0.0061	0.0191	-0.1020
14	0.02	11.21	-0.3734	-0.0149	-0.0711	0.0400	0.1905	0.0556	0.0008	-0.0047	0.0153	-0.0841
15	0.02	10.48	-0.3326	-0.0140	-0.0522	0.0421	0.1568	0.0520	0.0013	-0.0077	0.0260	-0.1476
16	0.01	9.64	-0.2886	-0.0128	-0.0330	0.0443	0.1143	0.0546	0.0013	-0.0070	0.0238	-0.1283
17	0.01	8.87	-0.2256	-0.0116	-0.0161	0.0516	0.0712	0.0518	0.0011	-0.0069	0.0222	-0.1340
18	0.01	8.03	-0.1881	-0.0109	-0.0088	0.0582	0.0041	0.0558	0.0010	-0.0059	0.0179	-0.1059
19	0.01	7.26	-0.1327	-0.0091	0.0177	0.0686	-0.1333	0.0438	0.0015	-0.0087	0.0354	-0.1987
20	0.01	6.45	-0.1037	-0.0091	0.0355	0.0877	-0.3466	0.0460	0.0012	-0.0061	0.0261	-0.1320
21	0.01	5.64	-0.0502	-0.0093	0.0560	0.1852	-1.1150	0.0477	0.0010	-0.0072	0.0220	-0.1511
22	0.01	4.83	-0.0101	-0.0094	0.0708	0.9305	-7.0133	0.0427	0.0010	-0.0102	0.0234	-0.2382
23	0.01	4.05	0.0394	-0.0098	0.0911	-0.2500	2.3129	0.0446	0.0008	-0.0064	0.0191	-0.1444
24	0.01	3.27	0.0956	-0.0114	0.1126	-0.1192	1.1784	0.0392	0.0008	-0.0072	0.0204	-0.1846
25	0.01	2.53	0.1600	-0.0123	0.1313	-0.0769	0.8207	0.0379	0.0010	-0.0079	0.0264	-0.2077
26	0.01	1.71	0.2129	-0.0128	0.1520	-0.0601	0.7141	0.0344	0.0012	-0.0106	0.0349	-0.3092
27	0.01	0.96	0.2902	-0.0149	0.1756	-0.0513	0.6050	0.0353	0.0010	-0.0085	0.0297	-0.2419
28	0.01	0.20	0.3468	-0.0163	0.1953	-0.0470	0.5630	0.0383	0.0013	-0.0096	0.0339	-0.2516
29	0.01	-0.57	0.4059	-0.0166	0.2203	-0.0410	0.5428	0.0383	0.0012	-0.0096	0.0313	-0.2516
30	0.01	-1.40	0.4742	-0.0163	0.2387	-0.0345	0.5034	0.0332	0.0012	-0.0115	0.0361	-0.3475
31	0.01	-2.19	0.5421	-0.0170	0.2576	-0.0314	0.4752	0.0308	0.0010	-0.0128	0.0325	-0.4168
32	0.01	-3.01	0.5955	-0.0167	0.2765	-0.0281	0.4650	0.0288	0.0010	-0.0103	0.0347	-0.3578
33	0.01	-3.81	0.6480	-0.0157	0.2876	-0.0243	0.4438	0.0293	0.0012	-0.0125	0.0427	-0.4279
34	0.01	-4.62	0.7089	-0.0138	0.3090	-0.0195	0.4359	0.0290	0.0013	-0.0112	0.0465	-0.3875
35	0.01	-5.36	0.7646	-0.0119	0.3201	-0.0156	0.4186	0.0292	0.0014	-0.0121	0.0496	-0.4134
36	0.01	-6.19	0.8205	-0.0107	0.3337	-0.0131	0.4067	0.0268	0.0018	-0.0138	0.0672	-0.5138
37	0.01	-6.97	0.8692	-0.0092	0.3482	-0.0106	0.4006	0.024	0.0016	-0.0139	0.0509	-0.4291
38	0.01	-7.78	0.9363	-0.0070	0.3626	-0.0075	0.3872	0.0282	0.0021	-0.0140	0.0762	-0.4966
39	0.01	-8.56	0.9672	-0.0080	0.3741	-0.0083	0.3868	0.0267	0.0013	-0.0130	0.0906	-0.4870
40	0.01	-9.37	1.0197	-0.0079	0.3869	-0.0077	0.3794	0.0321	0.0017	-0.0123	0.0530	-0.3833
41	0.01	-10.16	1.0582	-0.0074	0.3980	-0.0070	0.3761	0.0297	0.0019	-0.0140	0.0656	-0.4715
42	0.01	-10.93	1.1109	-0.0068	0.4056	-0.0061	0.3651	0.0311	0.0023	-0.0141	0.0755	-0.4546
43	0.0	-11.67	1.1392	-0.0048	0.4131	-0.0043	0.3626	0.0355	0.0021	-0.0147	0.0591	-0.4133
44	0.01	-12.45	1.1438	-0.0047	0.4038	0.0041	0.3531	0.0286	0.0026	-0.0158	0.0909	-0.5514
45	0.01	-13.19	1.1040	0.0169	0.3783	0.0153	0.3426	0.0245	0.0071	-0.0188	0.2918	-0.7688
46	0.01	-14.06	1.1190	0.0205	0.3703	0.0183	0.3309	0.0171	0.0103	-0.0249	0.6052	-1.4563

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	1.22	0.97	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	0.01	-14.85	1.0839	0.0248	0.3552	0.0229	0.3277	0.0275	0.0019	-0.0165	0.0691	-0.6013		
48	0.01	-15.66	1.0600	0.0219	0.3345	0.0207	0.3156	0.0285	0.0065	-0.0176	0.2298	-0.6177		
49	0.02	-16.45	1.0307	0.0174	0.3280	0.0169	0.3142	0.0239	0.0078	-0.0226	0.3284	-0.9471		
50	0.01	-17.30	1.0771	0.0184	0.3396	0.0171	0.3153	0.0409	0.0014	-0.0077	0.0342	-0.1876		
51	0.01	-18.13	1.0856	0.0157	0.3372	0.0145	0.3107	0.0474	-0.0007	-0.0037	-0.0148	-0.0782		
52	0.01	-19.00	1.0813	0.0147	0.3398	0.0136	0.3143	0.0489	-0.0006	-0.0041	-0.0123	-0.0840		
53	0.01	-19.76	1.0797	0.0090	0.3432	0.0084	0.3178	0.0542	0.0037	-0.0050	0.0683	-0.0930		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	122	0.97	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	0.02	19.79	-0.6706	-0.0076	-0.2880	0.0114	0.4295	-0.0019	0.0012	0.0004	-0.6315	-0.1931
2	0.02	19.78	-0.6595	-0.0072	-0.2895	0.0110	0.4390	-0.0022	0.0013	0.0005	-0.6135	-0.2122
3	0.02	19.79	-0.6526	-0.0076	-0.2895	0.0117	0.4437	-0.0037	0.0022	0.0008	-0.6080	-0.2073
4	0.02	19.07	-0.6421	-0.0081	-0.2827	0.0126	0.4403	-0.0097	0.0059	0.0020	-0.6133	-0.2029
5	0.02	18.29	-0.6096	-0.0077	-0.2770	0.0127	0.4544	-0.0079	0.0049	0.0016	-0.6201	-0.1984
6	0.02	17.47	-0.5705	-0.0083	-0.2640	0.0146	0.4627	-0.0009	0.0005	0.0002	-0.6110	-0.2223
7	0.02	16.68	-0.5177	-0.0104	-0.2443	0.0202	0.4719	-0.0031	0.0019	0.0007	-0.6128	-0.2152
8	0.02	15.90	-0.4698	-0.0116	-0.2273	0.0247	0.4839	0.0003	-0.0002	-0.0001	-0.6665	-0.3335
9	0.02	15.13	-0.4310	-0.0119	-0.2135	0.0276	0.4954	0.0055	-0.0033	-0.0013	-0.6090	-0.2304
10	0.02	14.33	-0.3845	-0.0115	-0.1922	0.0299	0.4999	0.0024	-0.0014	-0.0005	-0.6041	-0.2085
11	0.02	13.56	-0.3375	-0.0107	-0.1801	0.0317	0.5335	0.0071	-0.0043	-0.0015	-0.6126	-0.2161
12	0.02	12.84	-0.2850	-0.0101	-0.1586	0.0354	0.5563	0.0106	-0.0065	-0.0024	-0.6131	-0.2234
13	0.02	12.03	-0.2413	-0.0098	-0.1408	0.0408	0.5835	0.0067	-0.0041	-0.0015	-0.6118	-0.2190
14	0.02	11.21	-0.1958	-0.0095	-0.1190	0.0488	0.6080	0.0121	-0.0074	-0.0027	-0.6115	-0.2205
15	0.02	10.48	-0.1353	-0.0091	-0.0990	0.0672	0.7316	0.0098	-0.0060	-0.0021	-0.6121	-0.2178
16	0.01	9.64	-0.0958	-0.0088	-0.0799	0.0918	0.8343	0.0091	-0.0056	-0.0020	-0.6153	-0.2162
17	0.01	8.87	-0.0520	-0.0072	-0.0615	0.1384	1.1832	0.0111	-0.0068	-0.0024	-0.6170	-0.2163
18	0.01	8.03	-0.0017	-0.0070	-0.0431	4.1169	25.3332	0.0098	-0.0060	-0.0021	-0.6172	-0.2176
19	0.01	7.26	0.0415	-0.0061	-0.0240	-0.1470	-0.5776	0.0055	-0.0034	-0.0012	-0.6181	-0.2122
20	0.01	6.45	0.0818	-0.0058	-0.0070	-0.0709	-0.0961	0.0077	-0.0047	-0.0016	-0.6168	-0.2122
21	0.01	5.64	0.1311	-0.0063	0.0119	-0.0484	0.0707	0.0052	-0.0032	-0.0011	-0.6249	-0.2052
22	0.01	4.83	0.1731	-0.0074	0.0371	-0.0427	0.2142	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
23	0.01	4.05	0.2182	-0.0074	0.0570	-0.0339	0.2613	0.0040	-0.0024	-0.0009	-0.6124	-0.2168
24	0.01	3.27	0.2789	-0.0080	0.0800	-0.0288	0.2866	0.0030	-0.0018	-0.0007	-0.5999	-0.2335
25	0.01	2.53	0.3302	-0.0090	0.1013	-0.0274	0.3069	0.0021	-0.0013	-0.0005	-0.6189	-0.2382
26	0.01	1.71	0.3909	-0.0101	0.1250	-0.0258	0.3197	0.0021	-0.0013	-0.0005	-0.6189	-0.2382
27	0.01	0.96	0.4334	-0.0113	0.1501	-0.0261	0.3464	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
28	0.01	0.20	0.4884	-0.0120	0.1716	-0.0247	0.3514	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
29	0.01	-0.57	0.5502	-0.0125	0.1938	-0.0227	0.3523	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
30	0.01	-1.40	0.6169	-0.0115	0.2161	-0.0186	0.3502	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
31	0.01	-2.19	0.6720	-0.0118	0.2383	-0.0176	0.3546	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
32	0.01	-3.01	0.7283	-0.0112	0.2590	-0.0154	0.3556	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
33	0.01	-3.81	0.7791	-0.0095	0.2725	-0.0122	0.3498	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
34	0.01	-4.62	0.8337	-0.0081	0.2909	-0.0097	0.3489	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
35	0.01	-5.36	0.8841	-0.0055	0.3032	-0.0062	0.3429	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
36	0.01	-6.19	0.9310	-0.0034	0.3178	-0.0037	0.3414	0.0012	-0.0007	-0.0002	-0.6249	-0.1668
37	0.01	-6.97	0.9895	-0.0024	0.3307	-0.0025	0.3342	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
38	0.01	-7.78	1.0370	-0.0003	0.3446	-0.0003	0.3323	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
39	0.01	-8.56	1.0784	0.0004	0.3568	0.0004	0.3309	0.0006	-0.0003	-0.0002	-0.5832	-0.3335
40	0.01	-9.37	1.1269	0.0008	0.3681	0.0007	0.3266	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
41	0.01	-10.16	1.1761	0.0017	0.3785	0.0014	0.3218	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
42	0.01	-10.93	1.2137	0.0025	0.3876	0.0021	0.3194	0.0	0.0	0.0	0.0	0.0
43	0.0	-11.67	1.2534	0.0059	0.3893	0.0047	0.3106	0.0001	-0.0000	-0.0001	-0.4999	-0.6668
44	0.01	-12.45	1.2634	0.0134	0.3862	0.0106	0.3057	-0.0001	0.0000	0.0001	-0.4999	-0.6668
45	0.01	-13.19	1.2639	0.0224	0.3701	0.0181	0.2929	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
46	0.01	-14.06	1.2788	0.0243	0.3706	0.0190	0.2898	0.0005	-0.0003	-0.0001	-0.5999	-0.2668

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

PCINT	TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
6	122	0.97	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED			
47	0.01	-14.85	1.2639	0.0285	0.3523	0.0225	0.2787	-0.0007	0.0004	0.0002	-0.5713	-0.2382		
48	0.01	-15.66	1.2617	0.0312	0.3466	0.0247	0.2747	-0.0006	0.0004	0.0001	-0.6665	-0.1668		
49	0.02	-16.45	1.3015	0.0319	0.3523	0.0245	0.2707	-0.0016	0.0009	0.0004	-0.5936	-0.2293		
50	0.01	-17.30	1.2071	0.0286	0.3228	0.0237	0.2674	-0.0002	0.0001	0.0000	-0.7499	-0.1668		
51	0.01	-18.13	1.1973	0.0229	0.3206	0.0192	0.2677	-0.0001	0.0000	0.0001	-0.4999	-0.6668		
52	0.01	-19.00	1.2112	0.0230	0.3294	0.0190	0.2720	-0.0001	0.0000	0.0001	-0.4999	-0.6668		
53	0.01	-19.76	1.2344	0.0204	0.3343	0.0166	0.2708	-0.0007	0.0004	0.0002	-0.5713	-0.2382		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNPF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.23	1.01	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED
PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.71	-0.0144	0.1831	-3.2360	4.0244	-0.0040	0.0062	-12.7194		
2	0.03	19.34	-0.0693	0.3800	-3.2006	3.9519	0.0040	0.0098	-5.4837		
3	0.02	18.58	0.0081	0.1066	-3.0014	3.8000	-0.0080	0.0201	13.1679		
4	0.02	17.75	-0.0012	0.1167	-2.7634	3.4939	-0.0050	0.0420	-97.2333		
5	0.03	16.96	-0.0172	0.2061	-2.5677	3.2228	0.0	0.0619	-11.6326		
6	0.02	16.15	-0.0220	0.1998	-2.3958	2.9881	0.0040	0.0705	-9.0818		
7	0.02	15.39	0.0094	0.0998	-2.1672	2.6392	-0.0030	0.1002	10.6213		
8	0.02	14.61	0.0034	0.1252	-1.9975	2.3726	0.0070	0.1133	36.8353		
9	0.02	13.83	-0.0125	0.1465	-1.8032	2.0295	0.0090	0.1358	-11.7200		
10	0.02	13.04	-0.0056	0.0898	-1.6410	1.7365	0.0090	0.1496	-16.0428		
11	0.02	12.30	-0.0032	0.0915	-1.4324	1.3475	0.0140	0.1647	-28.5875		
12	0.02	11.51	0.0224	-0.0034	-1.3202	1.1174	0.0100	0.1808	-0.1500		
13	0.02	10.73	0.0152	0.0527	-1.1592	0.8161	0.0150	0.1948	3.4684		
14	0.01	9.91	0.0178	-0.0249	-0.9363	0.5034	0.0100	0.2208	-1.4000		
15	0.02	9.14	0.0252	-0.0273	-0.8014	0.1781	0.0140	0.2279	-1.0825		
16	0.02	8.31	0.0386	-0.0630	-0.6536	-0.1048	0.0190	0.2469	-1.6332		
17	0.02	7.52	0.0482	-0.0765	-0.5480	-0.3796	0.0200	0.2524	-1.5867		
18	0.01	6.72	0.0383	-0.0776	-0.4112	-0.6271	0.0190	0.2643	-2.0266		
19	0.01	5.93	0.0350	-0.0920	-0.3265	-0.8722	0.0180	0.2649	-2.6286		
20	0.01	5.10	0.0445	-0.0943	-0.1235	-1.2391	0.0160	0.2678	-2.1191		
21	0.01	4.32	0.0413	-0.0958	0.0497	-1.5654	0.0190	0.2800	-2.3201		
22	0.01	3.52	0.0514	-0.1109	0.1550	-1.8798	0.0160	0.3054	-2.1588		
23	0.01	2.81	0.0611	-0.1635	0.2980	-2.2049	0.0120	0.3165	-2.6766		
24	0.01	2.02	0.0495	-0.1203	0.4120	-2.5466	0.0150	0.3264	-2.4303		
25	0.01	1.22	0.0675	-0.1445	0.5571	-2.9717	0.0150	0.3463	-2.1407		
26	0.01	0.48	0.0473	-0.1242	0.6802	-3.3680	0.0130	0.3699	-2.6262		
27	0.01	-0.30	0.0558	-0.1541	0.8750	-3.8216	0.0120	0.3859	-2.7620		
28	0.01	-1.08	0.0665	-0.1831	0.9870	-4.1614	0.0140	0.4022	-2.7534		
29	0.01	-1.90	0.0573	-0.1622	1.1136	-4.5656	0.0150	0.4169	-2.8311		
30	0.01	-2.69	0.0752	-0.2013	1.3408	-5.0217	0.0140	0.4324	-2.6766		
31	0.01	-3.51	0.0799	-0.1728	1.4823	-5.3928	0.0150	0.4463	-2.1635		
32	0.01	-4.32	0.0631	-0.1613	1.5953	-5.7170	0.0150	0.4675	-2.5569		
33	0.01	-5.06	0.0551	-0.1461	1.7734	-6.1892	0.0150	0.4846	-2.6523		
34	0.01	-5.86	0.0613	-0.1908	1.9148	-6.5463	0.0180	0.5048	-3.1129		
35	0.01	-6.64	0.0660	-0.1974	2.0760	-6.9189	0.0160	0.5240	-2.9909		
36	0.01	-7.46	0.0663	-0.1828	2.2337	-7.3336	0.0160	0.5439	-2.7575		
37	0.01	-8.25	0.0645	-0.1983	2.3855	-7.7001	0.0160	0.5562	-3.0744		
38	0.01	-9.04	0.0642	-0.1849	2.5586	-8.1104	0.0140	0.5700	-2.8797		
39	0.01	-9.81	0.0801	-0.2031	2.7115	-8.4246	0.0100	0.5778	-2.5361		
40	0.01	-10.62	0.0691	-0.2487	2.8482	-8.7089	0.0170	0.5825	-3.5997		
41	0.01	-11.35	0.0696	-0.2284	3.0029	-9.0214	0.0150	0.5904	-3.2822		
42	0.01	-12.14	0.0706	-0.2258	3.1655	-9.4200	0.0140	0.5906	-3.1989		
43	0.01	-12.91	0.0896	-0.2754	3.3477	-9.7071	0.0170	0.5972	-3.0741		
44	0.01	-13.72	0.0837	-0.2661	3.4779	-9.9345	0.0170	0.6002	-3.1802		
45	0.01	-14.54	0.0880	-0.2462	3.6905	-10.2361	0.0090	0.6016	-2.7977		
46	0.01	-15.41	0.0933	-0.2646	3.8443	-10.3704	-0.0010	0.5985	-2.8362		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PMA CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 123 1.01 1.7 0.0 B2WOF12 0.0 10 0 10 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	-16.17	0.0632	-0.2045	3.8837	-10.1605	-0.0170	0.5942	-3.2354
48	0.01	-16.99	0.0776	-0.2256	4.0204	-10.1229	0.0	0.5855	-2.9077
49	0.01	-17.81	0.0886	-0.3210	4.1473	-10.1546	-0.0160	0.5817	-3.6235
50	0.01	-18.70	0.0624	-0.1903	4.3246	-10.2069	-0.0150	0.5883	-3.0506
51	0.01	-19.50	0.0693	-0.2280	4.4280	-10.1557	-0.0280	0.5862	-3.2903

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.23	1.01	1.7	0.0	0.2	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.71	-0.8719	-0.0182	-0.2117	0.0209	0.2427	0.0820	-0.0004	0.0019	-0.0049	0.0235
2	0.03	19.34	-0.8580	-0.0183	-0.2087	0.0214	0.2433	0.0757	0.0003	-0.0006	0.0040	-0.0076
3	0.02	18.58	-0.8314	-0.0184	-0.2013	0.0222	0.2421	0.0783	0.0004	-0.0001	0.0057	-0.0014
4	0.02	17.75	-0.7943	-0.0187	-0.1890	0.0235	0.2379	0.0731	0.0008	-0.0016	0.0109	-0.0225
5	0.03	16.96	-0.7498	-0.0192	-0.1769	0.0257	0.2360	0.0709	0.0010	-0.0041	0.0148	-0.0575
6	0.02	16.15	-0.7066	-0.0194	-0.1631	0.0274	0.2308	0.0666	0.0007	-0.0026	0.0113	-0.0392
7	0.02	15.39	-0.6526	-0.0187	-0.1472	0.0286	0.2255	0.0716	0.0013	-0.0014	0.0189	-0.0201
8	0.02	14.61	-0.6054	-0.0180	-0.1303	0.0297	0.2153	0.0739	0.0012	-0.0001	0.0169	-0.0010
9	0.02	13.83	-0.5646	-0.0173	-0.1164	0.0306	0.2062	0.0655	0.0010	-0.0049	0.0160	-0.0744
10	0.02	13.04	-0.5040	-0.0170	-0.1002	0.0337	0.1987	0.0668	0.0009	-0.0048	0.0142	-0.0725
11	0.02	12.30	-0.4501	-0.0155	-0.0831	0.0344	0.1846	0.0641	0.0016	-0.0053	0.0250	-0.0833
12	0.02	11.51	-0.4029	-0.0143	-0.0690	0.0356	0.1712	0.0616	0.0010	-0.0062	0.0162	-0.1002
13	0.02	10.73	-0.3642	-0.0138	-0.0515	0.0374	0.1413	0.0678	0.0010	-0.0042	0.0147	-0.0621
14	0.01	9.91	-0.3112	-0.0129	-0.0344	0.0414	0.1106	0.0603	0.0009	-0.0064	0.0158	-0.1063
15	0.02	9.14	-0.2693	-0.0117	-0.0155	0.0434	0.0577	0.0654	0.0013	-0.0055	0.0206	-0.0842
16	0.02	8.31	-0.2195	-0.0109	0.0001	0.0495	-0.0003	0.0655	0.0011	-0.0056	0.0168	-0.0851
17	0.02	7.52	-0.1838	-0.0098	0.0154	0.0533	-0.0835	0.0617	0.0010	-0.0068	0.0170	-0.1109
18	0.01	6.72	-0.1260	-0.0088	0.0280	0.0698	-0.2223	0.0604	0.0007	-0.0068	0.0116	-0.1121
19	0.01	5.93	-0.0774	-0.0085	0.0450	0.1098	-0.5615	0.0528	0.0011	-0.0089	0.0208	-0.1687
20	0.01	5.10	-0.0400	-0.0086	0.0633	0.2162	-1.5618	0.0561	0.0008	-0.0115	0.0151	-0.2051
21	0.01	4.32	0.0141	-0.0094	0.0838	-0.6665	5.9431	0.0501	0.0010	-0.0091	0.0200	-0.1818
22	0.01	3.52	0.0579	-0.0108	0.1025	-0.1874	1.7702	0.0524	0.0011	-0.0078	0.0210	-0.1496
23	0.01	2.81	0.1048	-0.0115	0.1240	-0.1097	1.1834	0.0579	0.0013	-0.0083	0.0224	-0.1435
24	0.01	2.02	0.1595	-0.0123	0.1429	-0.0771	0.8962	0.0476	0.0013	-0.0097	0.0284	-0.2046
25	0.01	1.22	0.2230	-0.0151	0.1672	-0.0677	0.7498	0.0460	0.0013	-0.0086	0.0283	-0.1864
26	0.01	0.48	0.2805	-0.0166	0.1898	-0.0593	0.6764	0.0427	0.0009	-0.0107	0.0211	-0.2499
27	0.01	-0.30	0.3582	-0.0178	0.2134	-0.0498	0.5956	0.0466	0.0009	-0.0104	0.0193	-0.2226
28	0.01	-1.08	0.4059	-0.0188	0.2317	-0.0463	0.5709	0.0452	0.0008	-0.0102	0.0188	-0.2265
29	0.01	-1.90	0.4859	-0.0192	0.2483	-0.0396	0.5110	0.0425	0.0009	-0.0099	0.0212	-0.2338
30	0.01	-2.69	0.5370	-0.0195	0.2668	-0.0363	0.4969	0.0412	0.0011	-0.0105	0.0279	-0.2542
31	0.01	-3.51	0.5984	-0.0191	0.2826	-0.0320	0.4722	0.0412	0.0011	-0.0105	0.0267	-0.2542
32	0.01	-4.32	0.6498	-0.0183	0.2976	-0.0282	0.4580	0.0405	0.0011	-0.0135	0.0284	-0.3335
33	0.01	-5.06	0.6975	-0.0173	0.3166	-0.0249	0.4539	0.0416	0.0011	-0.0126	0.0264	-0.3038
34	0.01	-5.86	0.7619	-0.0171	0.3291	-0.0225	0.4320	0.0443	0.0012	-0.0124	0.0271	-0.2808
35	0.01	-6.64	0.7959	-0.0161	0.3425	-0.0203	0.4308	0.0406	0.0011	-0.0138	0.0271	-0.3392
36	0.01	-7.46	0.8544	-0.0156	0.3561	-0.0183	0.4168	0.0408	0.0011	-0.0145	0.0270	-0.3555
37	0.01	-8.25	0.8979	-0.0156	0.3680	-0.0174	0.4098	0.0382	0.0015	-0.0147	0.0406	-0.3841
38	0.01	-9.04	0.9658	-0.0148	0.3753	-0.0154	0.3927	0.0423	0.0015	-0.0151	0.0355	-0.3571
39	0.01	-9.81	0.9986	-0.0146	0.3881	-0.0147	0.3887	0.0404	0.0006	-0.0121	0.0161	-0.3004
40	0.01	-10.62	1.0424	-0.0146	0.3985	-0.0140	0.3823	0.0398	0.0016	-0.0157	0.0402	-0.3954
41	0.01	-11.35	1.0800	-0.0143	0.4075	-0.0132	0.3773	0.0382	0.0021	-0.0148	0.0563	-0.3867
42	0.01	-12.14	1.1349	-0.0127	0.4145	-0.0112	0.3652	0.0396	0.0020	-0.0150	0.0518	-0.3789
43	0.01	-12.91	1.1691	-0.0120	0.4208	-0.0103	0.3599	0.0362	0.0024	-0.0176	0.0677	-0.4872
44	0.01	-13.72	1.2127	-0.0113	0.4278	-0.0093	0.3528	0.0402	0.0032	-0.0179	0.0796	-0.4454
45	0.01	-14.54	1.2571	-0.0068	0.4283	-0.0054	0.3407	0.0409	0.0042	-0.0157	0.1027	-0.3632
46	0.01	-15.41	1.2565	-0.0013	0.4258	-0.0010	0.3389	0.0419	0.0033	-0.0135	0.0799	-0.3231

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		123		1.01 1.7		0.0	BZMOF12	0.0	10	0	10	0	FIXED
PDINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	-16.17	1.2393	0.0106	0.4013	0.0086	0.3239	0.0479	0.0099	-0.0143	0.2066	-0.2994	
48	0.01	-16.99	1.2306	0.0123	0.4001	0.0100	0.3252	0.0289	0.0097	-0.0192	0.3373	-0.6633	
49	0.01	-17.81	1.2387	0.0134	0.3982	0.0108	0.3215	0.0517	0.0067	-0.0108	0.1296	-0.2084	
50	0.01	-18.70	1.2530	0.0123	0.4003	0.0098	0.3195	0.0550	-0.0010	-0.0074	-0.0191	-0.1341	
51	0.01	-19.50	1.2506	0.0113	0.3548	0.0091	0.3157	0.0549	-0.0019	-0.0063	-0.0346	-0.1149	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.7	1.01	0.0	82M0F12	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.71	-0.6381	-0.0044	-0.2928	0.0069	0.4589	0.0033	-0.0020	-0.0007	-0.6060	-0.2122
2	0.03	19.34	-0.6344	-0.0047	-0.2531	0.0074	0.4620	0.0077	-0.0047	-0.0017	-0.6103	-0.2252
3	0.02	16.58	-0.5893	-0.0059	-0.2763	0.0100	0.4689	-0.0030	0.0018	0.0006	-0.6166	-0.2001
4	0.02	17.75	-0.5411	-0.0066	-0.2641	0.0122	0.4881	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
5	0.03	16.96	-0.5108	-0.0077	-0.2507	0.0152	0.4908	0.0043	-0.0026	-0.0010	-0.6162	-0.2249
6	0.02	16.15	-0.4550	-0.0090	-0.2350	0.0199	0.5165	0.0045	-0.0027	-0.0010	-0.6110	-0.2223
7	0.02	15.39	-0.4091	-0.0089	-0.2182	0.0217	0.5334	0.0048	-0.0029	-0.0011	-0.6041	-0.2293
8	0.02	14.61	-0.3790	-0.0086	-0.2027	0.0227	0.5347	0.0080	-0.0049	-0.0017	-0.6186	-0.2168
9	0.02	13.83	-0.3373	-0.0090	-0.1838	0.0267	0.5448	0.0089	-0.0055	-0.0019	-0.6179	-0.2173
10	0.02	13.04	-0.2740	-0.0082	-0.1685	0.0301	0.6149	0.0107	-0.0066	-0.0023	-0.6167	-0.2182
11	0.02	12.30	-0.2250	-0.0080	-0.1449	0.0355	0.6443	0.0091	-0.0056	-0.0020	-0.6153	-0.2162
12	0.02	11.51	-0.1798	-0.0077	-0.1275	0.0428	0.7092	0.0087	-0.0054	-0.0019	-0.6206	-0.2185
13	0.02	10.73	-0.1407	-0.0072	-0.1115	0.0515	0.7923	0.0107	-0.0066	-0.0023	-0.6167	-0.2182
14	0.01	9.91	-0.0845	-0.0068	-0.0896	0.0805	1.0610	0.0094	-0.0056	-0.0021	-0.6169	-0.2200
15	0.02	9.14	-0.0470	-0.0065	-0.0707	0.1393	1.5056	0.0112	-0.0068	-0.0025	-0.6115	-0.2204
16	0.02	8.31	-0.0080	-0.0060	-0.0548	0.1961	2.0457	0.0106	-0.0065	-0.0023	-0.6178	-0.2140
17	0.02	7.52	0.0359	-0.0058	-0.0353	-0.1615	-0.9843	0.0102	-0.0062	-0.0022	-0.6126	-0.2158
18	0.01	6.72	0.0797	-0.0056	-0.0159	-0.0703	-0.2000	0.0097	-0.0059	-0.0022	-0.6133	-0.2235
19	0.01	5.93	0.1186	-0.0054	-0.0009	-0.0459	-0.0374	0.0052	-0.0032	-0.0012	-0.6153	-0.2245
20	0.01	5.10	0.1695	-0.0058	0.0227	-0.0342	0.1338	0.0044	-0.0027	-0.0009	-0.6135	-0.2122
21	0.01	4.32	0.2116	-0.0062	0.0439	-0.0293	0.2075	0.0038	-0.0023	-0.0008	-0.6183	-0.2194
22	0.01	3.52	0.2568	-0.0074	0.0645	-0.0290	0.2926	0.0038	-0.0023	-0.0008	-0.6052	-0.2194
23	0.01	2.81	0.3117	-0.0086	0.0873	-0.0277	0.2800	0.0027	-0.0016	-0.0006	-0.6110	-0.2223
24	0.01	2.02	0.3570	-0.0102	0.1098	-0.0286	0.3075	0.0018	-0.0011	-0.0004	-0.6388	-0.2223
25	0.01	1.22	0.4116	-0.0111	0.1345	-0.0270	0.3267	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
26	0.01	0.48	0.4653	-0.0128	0.1614	-0.0275	0.3470	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
27	0.01	-0.30	0.5341	-0.0134	0.1836	-0.0251	0.3437	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
28	0.01	-1.08	0.5813	-0.0143	0.2024	-0.0247	0.3482	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
29	0.01	-1.90	0.6564	-0.0135	0.2225	-0.0206	0.3390	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
30	0.01	-2.69	0.7032	-0.0135	0.2426	-0.0193	0.3450	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
31	0.01	-3.51	0.7408	-0.0130	0.2601	-0.0176	0.3512	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
32	0.01	-4.32	0.8048	-0.0121	0.2784	-0.0151	0.3459	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
33	0.01	-5.06	0.8618	-0.0108	0.2927	-0.0126	0.3396	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
34	0.01	-5.86	0.9214	-0.0099	0.3045	-0.0107	0.3305	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
35	0.01	-6.64	0.9671	-0.0088	0.3196	-0.0091	0.3298	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
36	0.01	-7.46	1.0172	-0.0076	0.3333	-0.0075	0.3276	0.0006	-0.0003	-0.0001	-0.5632	-0.1668
37	0.01	-8.25	1.0700	-0.0072	0.3453	-0.0068	0.3227	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
38	0.01	-9.04	1.1117	-0.0070	0.3577	-0.0063	0.3218	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
39	0.01	-9.81	1.1503	-0.0064	0.3690	-0.0056	0.3208	0.0001	-0.0000	-0.0001	-0.4999	-0.6668
40	0.01	-10.62	1.1945	-0.0062	0.3774	-0.0052	0.3160	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
41	0.01	-11.35	1.2254	-0.0057	0.3865	-0.0047	0.3158	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
42	0.01	-12.14	1.2695	-0.0040	0.3945	-0.0031	0.3111	-0.0003	0.0002	0.0001	-0.6665	-0.3335
43	0.01	-12.91	1.3005	-0.0029	0.4126	-0.0022	0.3096	0.0	0.0	0.0	0.0	0.0
44	0.01	-13.72	1.3427	-0.0015	0.4076	-0.0011	0.3036	-0.0011	0.0007	0.0002	-0.6363	-0.2122
45	0.01	-14.54	1.3765	0.0001	0.4112	0.0001	0.2987	0.0	0.0	0.0	0.0	0.0
46	0.01	-15.41	1.4218	0.0029	0.4136	0.0020	0.2905	-0.0006	0.0003	0.0001	-0.5832	-0.1668

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		123	1.01	1.7	0.0	82W0F12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CONF3	CH3	CB3	XCPF3	YCPF3	CONF4	CH4	CB4	XCPF4	YCPF4
47	0.01	-16.17	1.4053	0.0106	0.4034	0.0075	0.2870	0.0	0.0	0.0	0.0	0.0
48	0.01	-16.99	1.4063	0.0171	0.3942	0.0122	0.2803	-0.0010	0.0006	0.0002	-0.5999	-0.1668
49	0.01	-17.81	1.4140	0.0195	0.3889	0.0138	0.2750	-0.0004	0.0002	0.0001	-0.4999	-0.1668
50	0.01	-18.70	1.4228	0.0238	0.3850	0.0168	0.2706	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
51	0.01	-19.50	1.4329	0.0244	0.3858	0.0171	0.2692	-0.0008	0.0005	0.0001	-0.6249	-0.1668

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	124	1.05	1.7	0.0	BZWF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	19.65	0.0362	-0.0897	-3.2444	4.1952	-0.0050	0.0725	-2.4773		
2	0.01	19.65	0.0439	-0.0974	-3.2044	4.0552	-0.0090	0.0793	-2.2200		
3	0.02	19.33	-0.0004	0.0656	-3.1585	4.1659	-0.0020	0.0612	-163.9000		
4	0.02	18.55	-0.0062	0.1337	-3.0244	3.9132	0.0	0.0499	-21.5613		
5	0.02	17.76	0.0055	0.0543	-2.8378	3.7640	-0.0020	0.1007	9.8127		
6	0.02	16.93	-0.0190	0.1136	-2.5301	3.4521	0.0060	0.1231	-5.9789		
7	0.02	16.15	-0.0098	0.0837	-2.4536	3.1970	0.0050	0.1247	-6.5429		
8	0.02	15.34	-0.0184	0.1357	-2.2406	2.9239	0.0040	0.1387	-7.3783		
9	0.02	14.62	0.0171	0.1010	-1.9860	2.5575	0.0040	0.1693	5.9099		
10	0.02	13.78	-0.0138	0.0983	-1.8564	2.3209	0.0050	0.1817	-7.1246		
11	0.02	13.05	-0.0019	0.0976	-1.6507	2.0230	0.0120	0.2025	-51.3999		
12	0.02	12.27	-0.0202	0.1583	-1.4941	1.6498	0.0140	0.2195	-7.8356		
13	0.02	11.53	0.0121	0.0980	-1.3394	1.3213	0.0120	0.2328	8.1041		
14	0.02	10.70	0.0268	0.0465	-1.1529	1.0042	0.0120	0.2443	1.7343		
15	0.02	9.91	0.0046	0.0686	-0.9878	0.6510	0.0150	0.2616	14.9043		
16	0.02	9.15	0.0272	-0.0121	-0.8595	0.3424	0.0140	0.2760	-0.4441		
17	0.02	8.32	0.0366	-0.0322	-0.6643	0.0292	0.0140	0.2907	-0.8809		
18	0.02	7.54	0.0340	-0.0106	-0.5544	-0.2367	0.0190	0.2977	-0.3118		
19	0.01	6.74	0.0186	-0.0290	-0.3865	-0.5807	0.0190	0.3053	-1.5613		
20	0.02	5.94	0.0216	-0.0048	-0.2772	-0.8288	0.0190	0.3058	0.2204		
21	0.02	5.09	0.0402	-0.0483	-0.1062	-1.2242	0.0110	0.3132	-1.2010		
22	0.01	4.32	0.0274	-0.0544	-0.0368	-1.4633	0.0140	0.3145	-1.9839		
23	0.01	3.57	0.0277	-0.0578	0.1561	-1.8693	0.0170	0.3327	-2.0859		
24	0.01	2.82	0.0402	-0.0983	0.3585	-2.2866	0.0140	0.3494	-2.4448		
25	0.02	2.03	0.0461	-0.0775	0.3596	-2.5421	0.0180	0.3626	-1.6820		
26	0.01	1.22	0.0518	-0.1025	0.5329	-2.9748	0.0170	0.3752	-1.9791		
27	0.02	0.50	0.0568	-0.1005	0.6811	-3.3122	0.0130	0.3892	-1.7697		
28	0.01	-0.28	0.0565	-0.1351	0.8549	-3.7795	0.0130	0.4019	-2.3911		
29	0.01	-1.07	0.0629	-0.1360	1.0287	-4.1986	0.0150	0.4174	-2.1631		
30	0.01	-1.88	0.0595	-0.1403	1.1522	-4.6048	0.0180	0.4281	-2.3580		
31	0.01	-2.68	0.0574	-0.1493	1.3191	-5.0104	0.0160	0.4427	-2.6021		
32	0.01	-3.54	0.0646	-0.1464	1.4224	-5.3896	0.0190	0.4613	-2.2669		
33	0.01	-4.32	0.0779	-0.1800	1.5864	-5.8095	0.0200	0.4740	-2.3114		
34	0.01	-5.10	0.0615	-0.1811	1.7258	-6.1536	0.0160	0.4929	-2.9447		
35	0.01	-5.85	0.0759	-0.2102	1.8787	-6.5516	0.0170	0.5114	-2.7102		
36	0.01	-6.66	0.0753	-0.2164	2.0737	-6.9457	0.0200	0.5342	-2.8741		
37	0.01	-7.46	0.0695	-0.2053	2.1905	-7.2952	0.0180	0.5592	-2.9540		
38	0.01	-8.28	0.0698	-0.2017	2.3618	-7.6634	0.0160	0.5688	-2.8900		
39	0.01	-9.06	0.0789	-0.2134	2.5150	-7.9734	0.0140	0.5907	-2.7054		
40	0.01	-9.86	0.0768	-0.1875	2.6860	-8.2549	0.0130	0.5979	-2.4417		
41	0.01	-10.61	0.0895	-0.2893	2.8178	-8.5704	0.0140	0.5926	-3.2324		
42	0.01	-11.40	0.0903	-0.3004	2.9708	-8.8375	0.0130	0.5958	-3.3269		
43	0.01	-12.15	0.0918	-0.2815	3.1112	-9.1790	0.0120	0.5927	-3.0667		
44	0.01	-12.94	0.0982	-0.3374	3.2883	-9.4269	0.0150	0.5887	-3.4367		
45	0.01	-13.75	0.0969	-0.3166	3.4130	-9.7355	0.0120	0.5905	-3.2679		
46	0.01	-14.59	0.1189	-0.3444	3.5778	-9.8483	0.0130	0.6045	-2.8971		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	124	1.05	1.7	0.0	BZWF12	0.0	10	0	10	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	-15.36	0.1220	-0.3338	3.7814	-10.1103	0.0110	0.6100	-2.7361
48	0.01	-16.18	0.1293	-0.3530	3.9569	-10.3480	0.0110	0.6207	-2.7302
49	0.01	-16.98	0.1165	-0.3241	4.0700	-10.3693	-0.0190	0.6274	-2.7820
50	0.01	-17.88	0.0981	-0.2723	4.2639	-10.5659	-0.0320	0.6364	-2.7761
51	0.01	-18.70	0.1002	-0.3252	4.4424	-10.7428	-0.0360	0.6419	-3.2463
52	0.0	-19.53	0.0989	-0.3564	4.6721	-10.8764	-0.0390	0.6398	-3.6042

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION													
6	1.24	1.05	1.7	0.0	0.2	10	0	10	0	FIXED	PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	0.01	19.65	-0.8772	-0.0179	-0.2086	0.0205	0.2378	0.0899	0.0002	0.0039	0.0028	0.0429											
2	0.01	19.65	-0.8873	-0.0177	-0.2099	0.0199	0.2365	0.0877	0.0003	0.0020	0.0040	0.0231											
3	0.02	19.33	-0.8870	-0.0176	-0.2099	0.0198	0.2366	0.0741	0.0011	-0.0026	0.0148	-0.0352											
4	0.02	18.55	-0.8509	-0.0179	-0.2000	0.0211	0.2350	0.0741	0.0009	-0.0026	0.0121	-0.0352											
5	0.02	17.76	-0.8100	-0.0169	-0.1915	0.0209	0.2364	0.0763	-0.0030	-0.0001	-0.0010	-0.0010											
6	0.02	16.93	-0.7699	-0.0158	-0.1800	0.0206	0.2339	0.0720	0.0014	-0.0056	0.0194	-0.0779											
7	0.02	16.15	-0.7345	-0.0155	-0.1669	0.0212	0.2273	0.0764	0.0008	-0.0012	0.0105	-0.0163											
8	0.02	15.34	-0.6883	-0.0151	-0.1545	0.0219	0.2244	0.0679	0.0006	-0.0044	0.0096	-0.0644											
9	0.02	14.62	-0.6216	-0.0142	-0.1413	0.0229	0.2274	0.0715	0.0002	-0.0025	0.0035	-0.0346											
10	0.02	13.78	-0.5718	-0.0137	-0.1292	0.0240	0.2260	0.0633	0.0002	-0.0069	0.0039	-0.1091											
11	0.02	13.05	-0.5159	-0.0129	-0.1122	0.0250	0.2175	0.0665	0.0003	-0.0068	0.0054	-0.1055											
12	0.02	12.27	-0.4607	-0.0123	-0.0940	0.0267	0.2041	0.0623	0.0007	-0.0088	0.0120	-0.1419											
13	0.02	11.53	-0.4152	-0.0116	-0.0771	0.0279	0.1856	0.0581	0.0015	-0.0084	0.0267	-0.1453											
14	0.02	10.70	-0.3776	-0.0114	-0.0593	0.0303	0.1571	0.0663	0.0009	-0.0069	0.0148	-0.1069											
15	0.02	9.91	-0.3196	-0.0112	-0.0398	0.0350	0.1246	0.0537	0.0015	-0.0124	0.0289	-0.2310											
16	0.02	9.15	-0.2742	-0.0101	-0.0242	0.0370	0.0881	0.0644	0.0013	-0.0080	0.0210	-0.1249											
17	0.02	8.32	-0.2262	-0.0098	-0.0071	0.0433	0.0313	0.0644	0.0014	-0.0078	0.0217	-0.1218											
18	0.02	7.54	-0.1705	-0.0087	0.0085	0.0510	-0.0498	0.0509	0.0012	-0.0116	0.0236	-0.2287											
19	0.01	6.74	-0.1268	-0.0085	0.0290	0.0670	-0.2291	0.0542	0.0015	-0.0093	0.0286	-0.1723											
20	0.02	5.94	-0.0821	-0.0083	0.0428	0.1011	-0.5218	0.0494	0.0017	-0.0111	0.0344	-0.2255											
21	0.02	5.09	-0.0355	-0.0084	0.0614	0.2380	-1.7288	0.0531	0.0015	-0.0102	0.0292	-0.1922											
22	0.01	4.32	0.0069	-0.0098	0.0815	-1.4273	11.8115	0.0505	0.0008	-0.0098	0.0168	-0.1935											
23	0.01	3.57	0.0586	-0.0113	0.1055	-0.1928	1.8008	0.0504	0.0015	-0.0099	0.0307	-0.1965											
24	0.01	2.82	0.1048	-0.0118	0.1247	-0.1131	1.1901	0.0507	0.0016	-0.0109	0.0325	-0.2151											
25	0.02	2.03	0.1545	-0.0130	0.1434	-0.0841	0.9280	0.0494	0.0017	-0.0111	0.0344	-0.2255											
26	0.01	1.22	0.2274	-0.0148	0.1657	-0.0651	0.7290	0.0434	0.0014	-0.0128	0.0323	-0.2958											
27	0.02	0.50	0.2708	-0.0158	0.1830	-0.0583	0.6759	0.0468	0.0013	-0.0105	0.0278	-0.2245											
28	0.01	-0.28	0.3331	-0.0174	0.2073	-0.0522	0.6222	0.0434	0.0001	-0.0117	0.0035	-0.2705											
29	0.01	-1.07	0.3967	-0.0187	0.2265	-0.0471	0.5709	0.0457	0.0003	-0.0103	0.0066	-0.2248											
30	0.01	-1.88	0.4697	-0.0195	0.2488	-0.0415	0.5297	0.0446	0.0004	-0.0115	0.0101	-0.2587											
31	0.01	-2.68	0.5235	-0.0203	0.2653	-0.0389	0.5068	0.0443	0.0004	-0.0103	0.0090	-0.2334											
32	0.01	-3.54	0.5883	-0.0206	0.2824	-0.0350	0.4801	0.0424	0.0007	-0.0130	0.0177	-0.3059											
33	0.01	-4.32	0.6293	-0.0204	0.2990	-0.0325	0.4751	0.0441	0.0010	-0.0147	0.0227	-0.3335											
34	0.01	-5.10	0.6875	-0.0209	0.3147	-0.0305	0.4577	0.0438	0.0007	-0.0131	0.0160	-0.2992											
35	0.01	-5.85	0.7388	-0.0201	0.3298	-0.0273	0.4464	0.0425	0.0002	-0.0128	0.0059	-0.3021											
36	0.01	-6.66	0.7949	-0.0199	0.3401	-0.0250	0.4279	0.0413	0.0008	-0.0137	0.0206	-0.3326											
37	0.01	-7.46	0.8434	-0.0195	0.3532	-0.0231	0.4188	0.0451	0.0002	-0.0129	0.0044	-0.2854											
38	0.01	-8.28	0.8843	-0.0192	0.3691	-0.0218	0.4173	0.0467	0.0007	-0.0141	0.0161	-0.3028											
39	0.01	-9.06	0.9415	-0.0185	0.3754	-0.0197	0.3987	0.0467	0.0004	-0.0141	0.0096	-0.3028											
40	0.01	-9.86	0.9732	-0.0179	0.3860	-0.0184	0.3966	0.0439	0.0001	-0.0132	0.0034	-0.3000											
41	0.01	-10.61	1.0169	-0.0167	0.3915	-0.0164	0.3850	0.0427	0.0004	-0.0137	0.0105	-0.3202											
42	0.01	-11.40	1.0569	-0.0168	0.4032	-0.0159	0.3815	0.0474	0.0009	-0.0114	0.0200	-0.2406											
43	0.01	-12.15	1.1020	-0.0148	0.4113	-0.0134	0.3732	0.0461	0.0016	-0.0117	0.0358	-0.2546											
44	0.01	-12.94	1.1377	-0.0136	0.4141	-0.0119	0.3640	0.0467	0.0015	-0.0140	0.0332	-0.3006											
45	0.01	-13.73	1.1829	-0.0127	0.4187	-0.0108	0.3540	0.0473	0.0015	-0.0105	0.0317	-0.2228											
46	0.01	-14.59	1.2281	-0.0119	0.4240	-0.0097	0.3453	0.0517	0.0039	-0.0140	0.0754	-0.2703											

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		124	1.05	1.7		0.0	B2WDF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	-15.36	1.2542	-0.0116	0.4332	-0.0092	0.3454	0.0540	0.0041	-0.0123	0.0759	-0.2279	
48	0.01	-16.18	1.2865	-0.0087	0.4321	-0.0068	0.3359	0.0489	0.0055	-0.0138	0.1125	-0.2823	
49	0.01	-16.98	1.2833	-0.0004	0.4230	-0.0004	0.3296	0.0633	0.0035	-0.0064	0.0561	-0.1012	
50	0.01	-17.88	1.3051	0.0012	0.4230	0.0010	0.3241	0.0669	0.0041	-0.0059	0.0613	-0.0883	
51	0.01	-18.70	1.3279	0.0009	0.4291	0.0007	0.3231	0.0720	0.0033	-0.0052	0.0465	-0.0723	
52	0.0	-19.53	1.3423	0.0003	0.4363	0.0002	0.3250	0.0703	0.0012	-0.0029	0.0171	-0.0409	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.05	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	0.01	19.65	-0.6100	-0.0061	-0.2904	0.0100	0.4761	-0.0043	0.0026	0.0009	-0.6162	-0.2017
2	0.01	19.65	-0.6055	-0.0065	-0.2865	0.0107	0.4732	-0.0122	0.0075	0.0024	-0.6146	-0.1996
3	0.02	19.33	-0.5993	-0.0065	-0.2852	0.0108	0.4759	-0.0087	0.0053	0.0017	-0.6148	-0.1955
4	0.02	18.55	-0.5788	-0.0053	-0.2793	0.0092	0.4826	-0.0030	0.0016	0.0006	-0.5999	-0.2001
5	0.02	17.76	-0.5393	-0.0047	-0.2710	0.0087	0.5025	0.0028	-0.0017	-0.0007	-0.6070	-0.2382
6	0.02	16.93	-0.5032	-0.0045	-0.2576	0.0089	0.5116	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
7	0.02	16.15	-0.4610	-0.0049	-0.2435	0.0106	0.5282	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
8	0.02	15.34	-0.4233	-0.0047	-0.2263	0.0112	0.5347	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
9	0.02	14.62	-0.3761	-0.0045	-0.2091	0.0120	0.5560	0.0065	-0.0040	-0.0014	-0.6153	-0.2206
10	0.02	13.78	-0.3161	-0.0039	-0.1970	0.0123	0.6232	0.0060	-0.0037	-0.0013	-0.6166	-0.2168
11	0.02	13.05	-0.2789	-0.0036	-0.1785	0.0131	0.6400	0.0074	-0.0045	-0.0016	-0.6148	-0.2208
12	0.02	12.27	-0.2227	-0.0036	-0.1597	0.0162	0.7171	0.0084	-0.0051	-0.0018	-0.6130	-0.2144
13	0.02	11.53	-0.1778	-0.0039	-0.1376	0.0222	0.7742	0.0069	-0.0042	-0.0015	-0.6158	-0.2175
14	0.02	10.70	-0.1311	-0.0041	-0.1198	0.0316	0.9137	0.0063	-0.0038	-0.0014	-0.6110	-0.2223
15	0.02	9.91	-0.0797	-0.0040	-0.0980	0.0502	1.2303	0.0038	-0.0023	-0.0008	-0.6052	-0.2194
16	0.02	9.15	-0.0376	-0.0043	-0.0776	0.1157	2.0646	0.0029	-0.0018	-0.0006	-0.6206	-0.2185
17	0.02	8.32	0.0117	-0.0044	-0.0588	-0.3803	-5.0258	0.0048	-0.0030	-0.0010	-0.6249	-0.2085
18	0.02	7.54	0.0430	-0.0047	-0.0367	-0.1093	-0.8528	0.0045	-0.0021	-0.0007	-0.6142	-0.2096
19	0.01	6.74	0.0795	-0.0051	-0.0189	-0.0648	-0.2379	0.0032	-0.0019	-0.0007	-0.6093	-0.2293
20	0.02	5.94	0.1382	-0.0054	-0.0066	-0.0391	-0.0481	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
21	0.02	5.09	0.1809	-0.0060	0.0236	-0.0332	0.1303	0.0017	-0.0010	-0.0004	-0.6175	-0.2550
22	0.01	4.32	0.2253	-0.0073	0.0441	-0.0326	0.1956	0.0023	-0.0014	-0.0005	-0.6086	-0.2320
23	0.01	3.57	0.2692	-0.0084	0.0654	-0.0314	0.2448	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
24	0.01	2.82	0.3279	-0.0107	0.0898	-0.0326	0.2738	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
25	0.02	2.03	0.3674	-0.0115	0.1076	-0.0314	0.2929	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
26	0.01	1.22	0.4406	-0.0121	0.1314	-0.0275	0.2983	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
27	0.02	0.50	0.4789	-0.0128	0.1527	-0.0268	0.3188	-0.0001	0.0000	0.0001	-0.4999	-0.6668
28	0.01	-0.28	0.5398	-0.0131	0.1760	-0.0243	0.3260	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
29	0.01	-1.07	0.5822	-0.0139	0.1963	-0.0240	0.3372	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
30	0.01	-1.88	0.6448	-0.0147	0.2166	-0.0228	0.3359	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
31	0.01	-2.68	0.7004	-0.0153	0.2365	-0.0219	0.3376	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
32	0.01	-3.54	0.7554	-0.0156	0.2544	-0.0206	0.3368	0.0018	-0.0011	-0.0004	-0.6110	-0.2223
33	0.01	-4.32	0.8060	-0.0154	0.2739	-0.0191	0.3398	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
34	0.01	-5.10	0.8618	-0.0145	0.2895	-0.0168	0.3359	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
35	0.01	-5.85	0.9135	-0.0133	0.3060	-0.0146	0.3350	0.0020	-0.0012	-0.0004	-0.6249	-0.2168
36	0.01	-6.66	0.9723	-0.0124	0.3154	-0.0128	0.3244	0.0010	-0.0006	-0.0002	-0.6499	-0.1668
37	0.01	-7.46	1.0190	-0.0116	0.3294	-0.0114	0.3232	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
38	0.01	-8.28	1.0599	-0.0111	0.3416	-0.0105	0.3223	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
39	0.01	-9.06	1.1082	-0.0106	0.3514	-0.0096	0.3171	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
40	0.01	-9.86	1.1396	-0.0095	0.3625	-0.0084	0.3181	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
41	0.01	-10.61	1.1891	-0.0086	0.3703	-0.0072	0.3114	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
42	0.01	-11.40	1.2198	-0.0076	0.3804	-0.0062	0.3118	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
43	0.01	-12.15	1.2626	-0.0063	0.3865	-0.0050	0.3061	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
44	0.01	-12.94	1.2906	-0.0047	0.3955	-0.0037	0.3065	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
45	0.01	-13.75	1.3297	-0.0033	0.4012	-0.0025	0.3017	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
46	0.01	-14.59	1.3643	-0.0023	0.4023	-0.0017	0.2949	0.0002	-0.0001	-0.0000	-0.7499	-0.1668

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	Phi	CNF3	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	1.24	1.05	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED			
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	0.01	-15.36	1.3825	-0.0010	0.4088	-0.0007	0.2957	0.0005	-0.0003	-0.0001	-0.5999	-0.2668		
48	0.01	-16.18	1.4242	-0.0006	0.4125	-0.0004	0.2896	0.0	0.0	0.0	0.0	0.0		
49	0.01	-16.98	1.4554	-0.0014	0.4215	-0.0010	0.2896	0.0002	-0.0001	-0.0000	-0.7499	-0.1668		
50	0.01	-17.88	1.4846	-0.0025	0.4285	-0.0017	0.2886	0.0003	-0.0002	-0.0001	-0.6665	-0.3335		
51	0.01	-18.70	1.5043	-0.0027	0.4353	-0.0018	0.2893	0.0	0.0	0.0	0.0	0.0		
52	0.0	-19.53	1.5295	-0.0031	0.4416	-0.0021	0.2887	-0.0001	0.0000	0.0001	-0.4999	-0.6668		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	125	1.10	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP		
1	0.03	19.53	0.0353	0.1136	-3.2282	3.7176	-0.0050	0.0779	3.2176		
2	0.02	19.29	-0.0057	0.1150	-3.2063	3.6349	-0.0030	0.0722	-20.1719		
3	0.02	18.50	0.0029	0.1179	-3.0843	3.6131	-0.0020	0.0769	40.6689		
4	0.03	17.68	-0.0564	0.3959	-2.8314	3.4601	0.0140	0.0991	-7.0206		
5	0.02	16.86	-0.0383	0.1586	-2.6045	3.2183	0.0030	0.1130	-4.1415		
6	0.03	16.11	-0.0223	0.2952	-2.3979	3.0061	0.0190	0.1237	-13.2386		
7	0.02	15.31	-0.0209	0.1762	-2.1307	2.6760	0.0120	0.1531	-8.4335		
8	0.02	14.58	-0.0025	0.1405	-1.9300	2.3941	0.0060	0.1770	-56.2000		
9	0.03	13.74	-0.0180	0.1902	-1.9210	2.2085	0.0170	0.1706	-10.5667		
10	0.02	13.03	-0.0377	0.1728	-1.7652	1.9713	0.0130	0.1862	-4.5830		
11	0.03	12.23	0.0	0.1460	-1.5201	1.6312	0.0150	0.2088	0.1460		
12	0.02	11.51	-0.0157	0.0750	-1.2703	1.2175	0.0130	0.2338	-4.7758		
13	0.02	10.67	0.0100	0.0630	-1.1979	1.0082	0.0190	0.2436	6.3000		
14	0.02	9.88	0.0026	0.0564	-1.1009	0.8003	0.0150	0.2511	19.3692		
15	0.02	9.07	0.0199	0.0721	-0.8575	0.3436	0.0190	0.2786	3.6251		
16	0.02	8.29	-0.0020	0.0828	-0.7542	0.0860	0.0230	0.2864	-41.4000		
17	0.02	7.46	0.0290	0.0464	-0.5859	-0.2116	0.0210	0.3015	1.6000		
18	0.02	6.71	0.0266	0.0008	-0.4058	-0.5857	0.0140	0.3158	0.0286		
19	0.02	5.87	0.0067	0.0466	-0.3935	-0.7279	0.0230	0.3204	6.9582		
20	0.02	5.08	0.0123	0.0558	-0.1384	-1.1761	0.0190	0.3343	4.5350		
21	0.02	4.27	0.0171	0.0111	-0.0032	-1.5083	0.0150	0.3378	0.6468		
22	0.02	3.51	0.0217	0.0216	0.0765	-1.7889	0.0180	0.3477	0.9963		
23	0.02	2.76	0.0299	-0.0129	0.2841	-2.1535	0.0190	0.3575	-0.4301		
24	0.02	1.98	0.0281	0.0257	0.3552	-2.4086	0.0180	0.3747	0.9132		
25	0.02	1.18	0.0300	0.0130	0.5433	-2.8624	0.0200	0.3930	0.4333		
26	0.02	0.44	0.0242	-0.0249	0.7133	-3.2503	0.0180	0.4079	-1.0281		
27	0.02	-0.30	0.0293	-0.0260	0.8283	-3.5493	0.0160	0.4183	-0.8881		
28	0.02	-1.13	0.0270	-0.0038	0.8979	-3.9457	0.0230	0.4356	-0.1407		
29	0.02	-1.88	0.0277	-0.0028	1.1385	-4.3750	0.0220	0.4502	-0.1004		
30	0.02	-2.73	0.0383	-0.0336	1.2581	-4.7350	0.0190	0.4632	-0.8778		
31	0.01	-3.54	0.0165	-0.0211	1.3496	-5.0391	0.0240	0.4815	-1.2788		
32	0.02	-4.35	0.0348	-0.0547	1.4463	-5.3234	0.0230	0.4957	-1.5724		
33	0.02	-5.07	0.0415	-0.0631	1.7447	-5.9641	0.0210	0.5126	-1.5205		
34	0.02	-5.89	0.0350	-0.0508	1.7954	-6.1730	0.0200	0.5429	-1.4281		
35	0.01	-6.69	0.0201	-0.0281	1.9359	-6.5548	0.0190	0.5482	-1.4000		
36	0.02	-7.53	0.0333	-0.0336	2.0685	-6.8744	0.0180	0.5751	-1.0096		
37	0.01	-8.27	0.0497	-0.1026	2.3391	-7.2582	0.0210	0.5925	-2.0640		
38	0.02	-9.07	0.0573	-0.0732	2.4893	-7.5964	0.0180	0.6054	-1.2178		
39	0.02	-9.88	0.0331	-0.0373	2.6425	-7.8864	0.0140	0.6066	-1.1201		
40	0.01	-10.64	0.0448	-0.0977	2.8379	-8.1975	0.0140	0.6135	-2.1812		
41	0.01	-11.42	0.0553	-0.1284	2.9412	-8.1911	0.0130	0.6236	-2.1722		
42	0.01	-12.20	0.0270	-0.0578	3.1065	-8.7585	0.0130	0.6298	-2.1407		
43	0.01	-12.91	0.0377	-0.1258	3.0535	-8.6733	0.0070	0.6468	-3.3363		
44	0.01	-13.73	0.0605	-0.1511	3.4184	-9.1351	0.0050	0.6304	-2.2122		
45	0.02	-14.55	0.0489	-0.0964	3.4428	-9.2874	0.0020	0.6383	-1.9726		
46	0.01	-15.42	0.0664	-0.1519	3.6792	-9.5003	0.0090	0.6453	-2.2886		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	R	X	Y	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
h		1.10	1.7			0.0	B2WDF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.01	-16.20	0.0536	-0.1530	3.8275	-9.8509	-0.0010	0.6388	-2.8552				
48	0.01	-16.99	0.0586	-0.1890	4.0166	-5.8866	0.0080	0.6460	-3.2259				
49	0.01	-17.84	0.0705	-0.2187	4.2069	-10.1092	0.0040	0.6312	-3.1021				
50	0.01	-18.65	0.0838	-0.2693	4.4779	-10.1166	-0.0070	0.6280	-3.2138				
51	0.01	-19.52	0.0692	-0.1869	4.6840	-10.4031	-0.0170	0.6086	-2.7006				
52	0.02	-20.24	0.0297	-0.0286	4.7844	-10.4196	-0.0070	0.6234	-0.9623				

MARTIN MISSILE TALLS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION	
6	125	1.10	1.7	0.0	B2WUFL2	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNFI	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.03	19.53	-0.8413	-0.0143	-0.2061	0.0170	0.2449	0.0555	-0.0003	0.0020	-0.0063	0.0359
2	0.02	19.29	-0.8333	-0.0154	-0.2013	0.0185	0.2416	0.0563	0.0002	-0.0018	0.0036	-0.0327
3	0.02	18.50	-0.8104	-0.0148	-0.1980	0.0183	0.2444	0.0551	-0.0005	-0.0015	-0.0100	-0.0279
4	0.03	17.68	-0.7591	-0.0144	-0.1861	0.0190	0.2452	0.0442	-0.0005	-0.0038	-0.0124	-0.0853
5	0.02	16.86	-0.7300	-0.0133	-0.1769	0.0182	0.2424	0.0525	-0.0003	-0.0013	-0.0067	-0.0249
6	0.03	16.11	-0.6720	-0.0128	-0.1644	0.0191	0.2450	0.0486	-0.0003	-0.0010	-0.0072	-0.0207
7	0.02	15.31	-0.6330	-0.0117	-0.1572	0.0185	0.2484	0.0360	-0.0003	-0.0071	-0.0097	-0.1973
8	0.02	14.58	-0.5926	-0.0115	-0.1424	0.0195	0.2403	0.0465	-0.0008	-0.0025	-0.0172	-0.0539
9	0.03	13.74	-0.5388	-0.0114	-0.1272	0.0212	0.2362	0.0421	-0.0005	-0.0058	-0.0131	-0.1371
10	0.02	13.03	-0.4978	-0.0106	-0.1142	0.0214	0.2294	0.0324	-0.0001	-0.0080	-0.0031	-0.2470
11	0.03	12.23	-0.4377	-0.0098	-0.0949	0.0224	0.2167	0.0498	-0.0003	-0.0008	-0.0070	-0.0162
12	0.02	11.51	-0.4005	-0.0094	-0.0808	0.0236	0.2017	0.0394	-0.0001	-0.0057	-0.0025	-0.1439
13	0.02	10.67	-0.3576	-0.0091	-0.0626	0.0256	0.1750	0.0420	-0.0002	-0.0057	-0.0048	-0.1358
14	0.02	9.88	-0.3051	-0.0090	-0.0426	0.0296	0.1396	0.0430	0.0	-0.0047	0.0	-0.1086
15	0.02	9.07	-0.2524	-0.0084	-0.0232	0.0335	0.0919	0.0310	0.0003	-0.0078	0.0113	-0.2507
16	0.02	8.29	-0.2118	-0.0090	-0.0102	0.0427	0.0480	0.0305	-0.0002	-0.0107	-0.0066	-0.3520
17	0.02	7.46	-0.1687	-0.0081	0.0080	0.0480	-0.0473	0.0293	0.0001	-0.0112	0.0034	-0.3835
18	0.02	6.71	-0.1079	-0.0073	0.0217	0.0676	-0.2015	0.0324	-0.0003	-0.0080	-0.0093	-0.2470
19	0.02	5.87	-0.0596	-0.0077	0.0416	0.1292	-0.6987	0.0350	0.0000	-0.0089	0.0014	-0.2554
20	0.02	5.08	-0.0172	-0.0082	0.0575	0.4767	-3.3412	0.0280	0.0005	-0.0117	0.0179	-0.4168
21	0.02	4.27	0.0308	-0.0093	0.0762	-0.3019	2.4761	0.0329	0.0005	-0.0108	0.0152	-0.3294
22	0.02	3.51	0.0716	-0.0101	0.0969	-0.1410	1.3542	0.0270	0.0007	-0.0129	0.0259	-0.4779
23	0.02	2.76	0.1226	-0.0115	0.1164	-0.0938	0.9499	0.0233	0.0004	-0.0129	0.0193	-0.5552
24	0.02	1.98	0.1737	-0.0120	0.1361	-0.0694	0.7834	0.0241	0.0007	-0.0114	0.0290	-0.4718
25	0.02	1.18	0.2346	-0.0128	0.1562	-0.0546	0.6661	0.0243	0.0008	-0.0121	0.0350	-0.4981
26	0.02	0.44	0.2821	-0.0143	0.1744	-0.0508	0.6199	0.0240	0.0008	-0.0111	0.0354	-0.4626
27	0.02	-0.30	0.3270	-0.0150	0.1929	-0.0458	0.5897	0.0205	0.0009	-0.0123	0.0439	-0.5485
28	0.02	-1.13	0.4041	-0.0160	0.2134	-0.0397	0.5282	0.0250	0.0008	-0.0100	0.0320	-0.3988
29	0.02	-1.88	0.4485	-0.0172	0.2320	-0.0384	0.5173	0.0158	0.0010	-0.0138	0.0664	-0.8756
30	0.02	-2.73	0.5076	-0.0182	0.2459	-0.0359	0.4845	0.0136	0.0008	-0.0148	0.0588	-1.0859
31	0.01	-3.54	0.5752	-0.0185	0.2636	-0.0322	0.4582	0.0101	0.0012	-0.0164	0.1188	-1.6272
32	0.02	-4.35	0.6272	-0.0195	0.2796	-0.0311	0.4458	0.0137	0.0008	-0.0154	0.0620	-1.1266
33	0.02	-5.07	0.6889	-0.0192	0.2960	-0.0279	0.4297	0.0176	0.0008	-0.0158	0.0483	-0.8997
34	0.02	-5.89	0.7322	-0.0190	0.3084	-0.0260	0.4212	0.0177	0.0011	-0.0165	0.0650	-0.9323
35	0.01	-6.69	0.7811	-0.0197	0.3229	-0.0252	0.4135	0.0201	0.0005	-0.0153	0.0249	-0.7613
36	0.02	-7.53	0.8312	-0.0190	0.3331	-0.0228	0.4007	0.0185	0.0002	-0.0140	0.0135	-0.7587
37	0.01	-8.27	0.8847	-0.0185	0.3448	-0.0209	0.3897	0.0130	0.0015	-0.0182	0.1192	-1.3976
38	0.02	-9.07	0.9281	-0.0190	0.3553	-0.0205	0.3828	0.0213	0.0008	-0.0156	0.0376	-0.7325
39	0.02	-9.88	0.9715	-0.0188	0.3662	-0.0194	0.3770	0.0249	-0.0005	-0.0138	-0.0201	-0.5543
40	0.01	-10.64	1.0157	-0.0179	0.3740	-0.0177	0.3683	0.0270	0.0008	-0.0129	0.0315	-0.4779
41	0.01	-11.42	1.0575	-0.0175	0.3801	-0.0165	0.3594	0.0221	0.0015	-0.0139	0.0679	-0.6306
42	0.01	-12.20	1.0949	-0.0169	0.3894	-0.0154	0.3557	0.0201	0.0002	-0.0153	0.0124	-0.7613
43	0.01	-12.91	1.1263	-0.0172	0.3940	-0.0153	0.3498	0.0288	0.0014	-0.0103	0.0503	-0.3578
44	0.01	-13.73	1.1618	-0.0162	0.3996	-0.0140	0.3440	0.0271	0.0008	-0.0084	0.0295	-0.3089
45	0.02	-14.55	1.1944	-0.0161	0.4044	-0.0135	0.3386	0.0268	-0.0008	-0.0059	-0.0317	-0.2190
46	0.01	-15.42	1.2232	-0.0153	0.4102	-0.0125	0.3353	0.0274	-0.0002	-0.0086	-0.0091	-0.3128

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6		1.25	1.10	1.7		0.0	B2W0F12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	-16.20	1.2607	-0.0158	0.4177	-0.0126	0.3313	0.0351	-0.0003	-0.0038	-0.0100	-0.1084	
48	0.01	-16.99	1.2926	-0.0157	0.4251	-0.0121	0.3289	0.0294	0.0019	-0.0079	0.0663	-0.2688	
49	0.01	-17.84	1.3047	-0.0154	0.4309	-0.0118	0.3303	0.0363	0.0004	-0.0040	0.0124	-0.1103	
50	0.01	-18.65	1.3337	-0.0151	0.4342	-0.0114	0.3256	0.0428	0.0007	0.0007	0.0164	0.0155	
51	0.01	-19.52	1.3570	-0.0139	0.4365	-0.0102	0.3216	0.0485	-0.0040	0.0074	-0.0835	0.1518	
52	0.02	-20.24	1.3595	-0.0144	0.4418	-0.0106	0.3250	0.0325	-0.0069	0.0019	-0.2123	0.0594	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.25	1.10	1.7	0.0	B2W012	0.0	10	0	10	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YC PF 3	CNF4	CH4	CB4	XCPF4	YC PF 4
1	0.03	19.53	-0.5906	-0.0063	-0.2704	0.0107	0.4578	-0.0096	0.0039	0.0019	-0.6145	-0.1980
2	0.02	19.29	-0.5899	-0.0055	-0.2725	0.0094	0.4620	-0.0036	0.0022	0.0007	-0.6110	-0.1946
3	0.02	18.50	-0.5584	-0.0050	-0.2652	0.0090	0.4748	-0.0017	0.0010	0.0003	-0.6175	-0.1962
4	0.03	17.68	-0.5415	-0.0036	-0.2598	0.0067	0.4798	0.0134	-0.0082	-0.0029	-0.6156	-0.2190
5	0.02	16.86	-0.5071	-0.0033	-0.2456	0.0066	0.4847	0.0097	-0.0060	-0.0021	-0.6184	-0.2132
6	0.03	16.11	-0.4756	-0.0032	-0.2322	0.0067	0.4881	0.0126	-0.0077	-0.0028	-0.6150	-0.2223
7	0.02	15.31	-0.4473	-0.0031	-0.2151	0.0074	0.5155	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
8	0.02	14.58	-0.3719	-0.0024	-0.2038	0.0066	0.5480	0.0111	-0.0008	-0.0024	-0.6125	-0.2163
9	0.03	13.74	-0.3342	-0.0026	-0.1835	0.0078	0.5501	0.0096	-0.0059	-0.0021	-0.6145	-0.2189
10	0.02	13.03	-0.2845	-0.0026	-0.1688	0.0091	0.5932	0.0072	-0.0044	-0.0016	-0.6110	-0.2223
11	0.03	12.23	-0.2440	-0.0021	-0.1535	0.0088	0.6308	0.0106	-0.0005	-0.0024	-0.6131	-0.2234
12	0.02	11.51	-0.1943	-0.0023	-0.1328	0.0118	0.6837	0.0087	-0.0053	-0.0019	-0.6148	-0.2185
13	0.02	10.67	-0.1600	-0.0030	-0.1130	0.0187	0.7063	0.0089	-0.0054	-0.0019	-0.6123	-0.2173
14	0.02	9.88	-0.1171	-0.0031	-0.0911	0.0269	0.7781	0.0076	-0.0046	-0.0017	-0.6117	-0.2194
15	0.02	9.07	-0.0546	-0.0033	-0.0703	0.0604	1.2874	0.0070	-0.0043	-0.0016	-0.6142	-0.2239
16	0.02	8.29	-0.0222	-0.0041	-0.0532	0.1869	2.3963	0.0051	-0.0031	-0.0011	-0.6175	-0.2158
17	0.02	7.46	0.0195	-0.0044	-0.0355	-0.2282	-1.8206	0.0058	-0.0035	-0.0013	-0.6120	-0.2185
18	0.02	6.71	0.0704	-0.0053	-0.0114	-0.0753	-0.1625	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
19	0.02	5.87	0.0475	-0.0051	0.0033	-0.0528	0.0337	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
20	0.02	5.08	0.1491	-0.0064	0.0247	-0.0433	0.1655	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
21	0.02	4.27	0.1964	-0.0077	0.0483	-0.0395	0.2461	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
22	0.02	3.51	0.2378	-0.0094	0.0707	-0.0395	0.2975	0.0036	-0.0022	-0.0008	-0.6110	-0.2223
23	0.02	2.76	0.2804	-0.0099	0.0917	-0.0353	0.3272	0.0028	-0.0017	-0.0006	-0.6249	-0.2025
24	0.02	1.98	0.3290	-0.0116	0.1128	-0.0354	0.3429	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
25	0.02	1.18	0.3910	-0.0121	0.1335	-0.0309	0.3414	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
26	0.02	0.44	0.4408	-0.0124	0.1530	-0.0282	0.3471	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
27	0.02	-0.30	0.4909	-0.0126	0.1726	-0.0257	0.3515	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
28	0.02	-1.13	0.5149	-0.0120	0.1921	-0.0274	0.3542	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
29	0.02	-1.88	0.5802	-0.0132	0.2097	-0.0228	0.3615	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
30	0.02	-2.73	0.6455	-0.0133	0.2312	-0.0207	0.3582	0.0004	-0.0002	-0.0001	-0.6249	-0.1668
31	0.01	-3.54	0.6974	-0.0138	0.2475	-0.0199	0.3549	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
32	0.02	-4.35	0.7558	-0.0139	0.2643	-0.0184	0.3498	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
33	0.02	-5.07	0.8079	-0.0137	0.2804	-0.0170	0.3471	0.0006	-0.0004	-0.0001	-0.6665	-0.1668
34	0.02	-5.89	0.8474	-0.0133	0.2975	-0.0157	0.3510	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
35	0.01	-6.69	0.8898	-0.0141	0.3075	-0.0159	0.3456	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
36	0.02	-7.53	0.9366	-0.0122	0.3229	-0.0131	0.3447	-0.0001	0.0000	0.0001	-0.4999	-0.6668
37	0.01	-8.27	0.9855	-0.0128	0.3334	-0.0130	0.3383	0.0010	-0.0006	-0.0002	-0.5999	-0.1668
38	0.02	-9.07	1.0295	-0.0123	0.3412	-0.0119	0.3315	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
39	0.02	-9.88	1.0685	-0.0119	0.3528	-0.0112	0.3302	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
40	0.01	-10.64	1.1071	-0.0111	0.3645	-0.0100	0.3296	0.0004	-0.0002	-0.0001	-0.6249	-0.1668
41	0.01	-11.42	1.1458	-0.0109	0.3710	-0.0096	0.3238	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
42	0.01	-12.20	1.1826	-0.0102	0.3810	-0.0087	0.3221	0.0001	-0.0000	0.0000	-0.4999	-0.3332
43	0.01	-12.91	1.2194	-0.0096	0.3834	-0.0079	0.3144	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
44	0.01	-13.73	1.2508	-0.0094	0.3917	-0.0076	0.3132	-0.0002	0.0001	0.0000	-0.7499	-0.1668
45	0.02	-14.55	1.2805	-0.0085	0.3984	-0.0067	0.3111	0.0	0.0	0.0	0.0	0.0
46	0.01	-15.42	1.3200	-0.0084	0.4032	-0.0064	0.3055	0.0012	-0.0007	-0.0003	-0.5832	-0.2501

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION		
6		125	1.10	1.7	0.0	82	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4	
47	0.01	-16.20	1.3489	-0.0079	0.4098	-0.0059	0.3038	0.0	0.0	0.0	0.0	0.0	
48	0.01	-16.99	1.3698	-0.0086	0.4139	-0.0063	0.3021	-0.0002	0.0001	0.0000	-0.7499	-0.1668	
49	0.01	-17.84	1.3844	-0.0088	0.4240	-0.0064	0.3063	0.0008	-0.0005	-0.0001	-0.6249	-0.1668	
50	0.01	-18.65	1.4045	-0.0090	0.4285	-0.0064	0.3051	0.0	0.0	0.0	0.0	0.0	
51	0.01	-19.52	1.4275	-0.0098	0.4341	-0.0069	0.3041	0.0011	-0.0006	-0.0002	-0.5908	-0.2122	
52	0.02	-20.24	1.4380	-0.0101	0.4406	-0.0070	0.3064	0.0010	-0.0006	-0.0002	-0.5999	-0.1668	

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	140	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	19.89	0.1921	-0.2699	-3.7249	8.1735	-0.0680	0.0583	-1.4052	
2	0.01	19.88	0.1661	-0.2665	-3.7585	8.1045	-0.0560	0.0457	-1.6047	
3	0.02	19.10	0.2095	-0.2523	-3.7270	8.1564	-0.0600	0.0372	-1.2043	
4	0.02	18.31	0.1921	-0.2579	-3.6055	7.9044	-0.0770	0.0443	-1.3427	
5	0.02	17.46	0.1613	-0.1148	-3.4034	7.5973	-0.0750	0.0429	-0.7118	
6	0.02	16.67	0.0914	0.0860	-3.2880	7.6138	-0.0440	0.0364	0.9414	
7	0.02	15.87	0.0692	0.1701	-3.1074	7.2580	-0.0290	0.0314	2.4584	
8	0.02	15.12	0.0369	0.1683	-3.0106	7.1225	-0.0310	0.0309	4.5621	
9	0.02	14.31	0.0363	0.1432	-2.8768	6.9042	-0.0240	0.0307	3.9444	
10	0.01	13.56	-0.0032	0.1875	-2.6506	6.5094	-0.0150	0.0460	-58.5875	
11	0.01	12.77	0.0014	0.1390	-2.5113	6.2734	-0.0070	0.0466	44.3142	
12	0.01	12.00	0.0125	0.1015	-2.3530	5.8748	-0.0040	0.0600	8.1200	
13	0.01	11.18	-0.0046	0.0600	-2.1399	5.4256	-0.0020	0.0639	-9.3070	
14	0.01	10.42	-0.0167	0.0954	-1.9686	5.0478	0.0070	0.0677	-5.7114	
15	0.0	9.60	0.0010	0.0136	-1.8205	4.6484	0.0110	0.0738	13.6000	
16	0.0	8.79	-0.0125	0.0385	-1.7123	4.2429	0.0120	0.0730	-3.0800	
17	0.01	7.96	0.0016	0.0438	-1.4807	3.7638	0.0170	0.0790	27.3500	
18	0.0	7.19	-0.0048	0.0037	-1.2548	3.3706	0.0150	0.0776	-0.7750	
19	0.0	6.43	-0.0176	-0.0054	-1.1450	2.9914	0.0160	0.0757	0.3045	
20	0.0	5.58	-0.0040	0.0116	-1.0173	2.5430	0.0140	0.0743	-2.9000	
21	0.0	4.74	0.0187	-0.0352	-0.8416	2.0621	0.0150	0.0774	-1.8813	
22	0.0	3.97	0.0006	0.0012	-0.7150	1.6859	0.0150	0.0812	1.9333	
23	0.0	3.18	0.0109	-0.0343	-0.5217	1.3083	0.0120	0.0871	-3.1431	
24	0.0	2.44	0.0107	-0.0440	-0.4092	0.9729	0.0150	0.0919	-4.1103	
25	0.0	1.65	0.0084	-0.0178	-0.2658	0.7000	0.0110	0.1008	-2.1143	
26	0.0	0.91	0.0292	-0.0469	-0.1614	0.3539	0.0070	0.1045	-1.6055	
27	0.0	0.16	0.0142	-0.0379	-0.0344	0.1491	0.0080	0.1051	-2.6676	
28	0.0	-0.64	0.0248	-0.0527	0.0743	-0.1790	0.0100	0.1095	-2.1258	
29	0.0	-1.46	0.0229	-0.0501	0.2037	-0.4061	0.0050	0.1122	-2.1860	
30	0.0	-2.26	0.0209	-0.0713	0.3067	-0.7383	0.0080	0.1138	-3.4096	
31	0.0	-3.08	0.0146	-0.0494	0.4135	-1.0179	0.0140	0.1158	-3.3863	
32	0.0	-3.87	0.0268	-0.0785	0.5615	-1.3481	0.0070	0.1087	-2.9298	
33	0.0	-4.64	0.0146	-0.0234	0.7460	-1.7713	0.0060	0.1099	-1.6055	
34	0.0	-5.41	0.0221	-0.0779	0.8611	-2.0894	0.0040	0.1133	-3.5267	
35	0.0	-6.21	0.0110	-0.0214	1.0083	-2.5714	0.0090	0.1160	-1.9455	
36	0.0	-7.02	0.0318	-0.0885	1.1537	-3.0031	0.0080	0.1155	-2.7836	
37	0.0	-7.80	0.0189	-0.0665	1.3489	-3.4033	0.0100	0.1166	-3.5164	
38	0.0	-8.62	0.0275	-0.0635	1.5655	-3.8575	0.0050	0.1104	-2.3091	
39	0.0	-9.38	0.0114	-0.0580	1.6373	-4.1710	0.0030	0.1117	-5.0842	
40	0.0	-10.20	0.0100	-0.0850	1.8858	-4.6448	-0.0010	0.1080	-8.5000	
41	0.0	-10.96	0.0189	-0.1084	2.0070	-5.0346	-0.0050	0.1046	-5.7386	
42	0.0	-11.72	0.0076	-0.0966	2.1574	-5.4191	-0.0120	0.1065	-12.7158	
43	0.0	-12.54	-0.0010	-0.1156	2.3531	-5.8270	-0.0110	0.1026	115.5999	
44	0.0	-13.29	-0.0072	-0.0619	2.5368	-6.2341	-0.0220	0.0903	8.6000	
45	0.0	-14.18	-0.0303	-0.0146	2.7347	-6.6093	-0.0300	0.0887	0.4812	
46	0.0	-14.98	-0.0216	-0.0418	2.8687	-6.8738	-0.0350	0.0830	1.9333	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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HARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION	
6	140	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP		
47	0.0	-15.81	-0.0159	-0.0857	3.0642	-7.2615	-0.0280	0.0801	5.3925		
48	-0.01	-16.61	0.0163	-0.2198	3.1483	-7.2422	0.0090	0.0814	-13.4859		
49	0.0	-17.47	-0.0438	-0.0187	3.2380	-7.3758	-0.0240	0.0733	0.4265		
50	-0.01	-18.33	-0.0451	-0.0279	3.4659	-7.7469	-0.0280	0.0511	0.6177		
51	0.0	-19.20	-0.0103	-0.0676	3.6155	-7.9594	-0.0130	0.0610	6.5612		
52	-0.01	-19.96	-0.0664	-0.0040	3.7913	-8.3014	-0.0230	0.0633	0.0608		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RK10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 140 0.85 1.7 0.0 82WOF12 0.0 0 -0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	19.89	-1.2356	-0.0542	-0.3167	0.0439	0.2563	0.0336	0.0021	0.0078	0.0640	0.2320
2	0.01	19.88	-1.2317	-0.0540	-0.3140	0.0439	0.2550	0.0378	0.0023	0.0116	0.0608	0.3068
3	0.02	19.10	-1.2233	-0.0545	-0.3126	0.0445	0.2556	0.0364	0.0022	0.0102	0.0604	0.2810
4	0.02	18.31	-1.2109	-0.0551	-0.3094	0.0455	0.2555	0.0346	0.0025	0.0104	0.0722	0.3014
5	0.02	17.46	-1.1785	-0.0541	-0.3027	0.0459	0.2569	0.0302	0.0020	0.0079	0.0679	0.2604
6	0.02	16.67	-1.1316	-0.0527	-0.2948	0.0466	0.2605	0.0353	0.0023	0.0077	0.0651	0.2171
7	0.02	15.87	-1.0798	-0.0536	-0.2845	0.0497	0.2635	0.0290	0.0026	0.0054	0.0896	0.1849
8	0.02	15.12	-1.0929	-0.0453	-0.2994	0.0414	0.2739	0.0289	0.0015	0.0063	0.0536	0.2190
9	0.02	14.31	-1.0407	-0.0413	-0.2537	0.0397	0.2822	0.0259	0.0016	0.0046	0.0637	0.1788
10	0.01	13.56	-0.9930	-0.0360	-0.2866	0.0363	0.2886	0.0259	0.0018	0.0046	0.0695	0.1788
11	0.01	12.77	-0.9359	-0.0324	-0.2805	0.0346	0.2997	0.0227	0.0016	0.0038	0.0727	0.1658
12	0.01	12.00	-0.8960	-0.0278	-0.2704	0.0310	0.3017	0.0260	0.0017	0.0040	0.0654	0.1524
13	0.01	11.18	-0.8349	-0.0260	-0.2572	0.0311	0.3081	0.0230	0.0015	0.0022	0.0674	0.0941
14	0.01	10.42	-0.7794	-0.0245	-0.2421	0.0315	0.3106	0.0181	0.0016	0.0012	0.0884	0.0680
15	0.0	9.60	-0.7247	-0.0214	-0.2265	0.0296	0.3125	0.0258	0.0014	0.0045	0.0543	0.1743
16	0.0	8.79	-0.6788	-0.0202	-0.2146	0.0297	0.3161	0.0147	0.0011	0.0015	0.0782	0.1019
17	0.01	7.96	-0.6057	-0.0167	-0.1992	0.0276	0.3289	0.0151	0.0015	-0.0009	0.1026	-0.0575
18	0.0	7.19	-0.5390	-0.0152	-0.1814	0.0283	0.3366	0.0151	0.0014	-0.0009	0.0960	-0.0575
19	0.0	6.43	-0.4814	-0.0147	-0.1617	0.0305	0.3359	0.0136	0.0014	-0.0014	0.1066	-0.1006
20	0.0	5.68	-0.4197	-0.0138	-0.1402	0.0329	0.3339	0.0080	0.0010	0.0011	0.1312	0.1332
21	0.0	4.74	-0.3359	-0.0123	-0.1188	0.0366	0.3538	0.0142	0.0013	0.0034	0.0915	0.2417
22	0.0	3.97	-0.2779	-0.0102	-0.0993	0.0367	0.3573	0.0070	0.0012	-0.0018	0.1714	-0.2525
23	0.0	3.18	-0.2206	-0.0085	-0.0782	0.0388	0.3545	0.0084	0.0015	-0.0007	0.1845	-0.0835
24	0.0	2.44	-0.1622	-0.0069	-0.0594	0.0425	0.3665	0.0080	0.0012	0.0011	0.1500	0.1332
25	0.0	1.65	-0.1078	-0.0056	-0.0425	0.0519	0.3944	0.0121	0.0013	-0.0021	0.1074	-0.1709
26	0.0	0.91	-0.0664	-0.0043	-0.0271	0.0647	0.4085	0.0121	0.0014	-0.0021	0.1157	-0.1709
27	0.0	0.16	-0.0162	-0.0029	-0.0105	0.1790	0.6480	0.0019	0.0010	-0.0016	0.5525	-0.8247
28	0.0	-0.64	0.0470	-0.0018	0.0062	-0.0394	0.1311	0.0070	0.0010	-0.0018	0.1428	-0.2525
29	0.0	-1.46	0.0975	-0.0008	0.0203	-0.0087	0.2081	-0.0027	0.0007	-0.0032	-0.2592	1.1851
30	0.0	-2.26	0.1520	-0.0013	0.0379	-0.0089	0.2497	0.0056	0.0011	-0.0028	0.1964	-0.5061
31	0.0	-3.08	0.2055	-0.0011	0.0603	-0.0054	0.2933	-0.0043	0.0010	-0.0038	-0.2325	0.8914
32	0.0	-3.87	0.2294	0.0003	0.0768	0.0015	0.3350	0.0056	0.0008	-0.0028	0.1518	-0.5061
33	0.0	-4.64	0.3103	0.0022	0.0985	0.0071	0.3174	-0.0026	0.0007	-0.0036	-0.2884	1.3717
34	0.0	-5.41	0.3515	0.0029	0.1168	0.0084	0.3324	-0.0027	0.0007	-0.0032	-0.2592	1.1851
35	0.0	-6.21	0.4368	0.0036	0.1389	0.0084	0.3179	-0.0009	0.0008	-0.0037	-0.8887	4.1110
36	0.0	-7.02	0.4953	0.0039	0.1591	0.0080	0.3213	-0.0042	0.0008	-0.0039	-0.1904	0.9285
37	0.0	-7.80	0.5498	0.0045	0.1793	0.0083	0.3261	-0.0027	0.0007	-0.0032	-0.2592	1.1851
38	0.0	-8.62	0.6093	0.0062	0.1956	0.0102	0.3211	-0.0043	0.0011	-0.0038	-0.2558	0.8914
39	0.0	-9.38	0.6742	0.0087	0.2067	0.0129	0.3067	-0.0077	0.0021	-0.0045	-0.2792	0.5800
40	0.0	-10.20	0.7337	0.0096	0.2248	0.0131	0.3064	0.0069	0.0019	-0.0017	0.2826	-0.2465
41	0.0	-10.96	0.7898	0.0107	0.2346	0.0135	0.2970	0.0068	0.0019	-0.0013	0.2794	-0.1962
42	0.0	-11.72	0.8403	0.0116	0.2504	0.0139	0.2980	0.0162	0.0014	0.0026	0.0864	0.1604
43	0.0	-12.54	0.8868	0.0133	0.2652	0.0150	0.2991	0.0078	0.0024	0.0014	0.3140	0.1794
44	0.0	-13.29	0.9340	0.0166	0.2775	0.0178	0.2971	0.0176	0.0007	0.0045	0.0398	0.2537
45	0.0	-14.18	0.9865	0.0199	0.2846	0.0202	0.2885	0.0218	0.0006	0.0079	0.0274	0.3606
46	0.0	-14.98	1.0215	0.0232	0.2907	0.0227	0.2846	0.0232	-0.0025	0.0120	-0.1077	0.5186

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

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TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	140	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.0	-15.81	1.0729	0.0242	0.3018	0.0225	0.2813	0.0275	-0.0036	0.0166	-0.1327	0.6023
48	-0.01	-16.61	1.1165	0.0264	0.3083	0.0236	0.2762	0.0375	-0.0045	0.0180	-0.1213	0.4799
49	0.0	-17.47	1.0940	0.0370	0.2953	0.0339	0.2700	0.0168	-0.0052	0.0123	-0.3124	0.7320
50	-0.01	-18.33	1.1377	0.0352	0.3031	0.0309	0.2664	0.0268	-0.0100	0.0243	-0.3731	0.9078
51	0.0	-19.20	1.1820	0.0349	0.3093	0.0296	0.2617	0.0193	-0.0090	0.0193	-0.4688	1.0016
52	-0.01	-19.96	1.2078	0.0354	0.3190	0.0293	0.2641	0.0288	-0.0087	0.0225	-0.3038	0.7811

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	140	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	19.89	-0.9568	-0.0537	-0.3394	0.0562	0.3547	-0.0392	0.0278	-0.0437	-0.7091	1.1138
2	0.01	19.88	-0.9755	-0.0553	-0.3373	0.0567	0.3457	-0.0312	0.0218	-0.0317	-0.7002	1.0159
3	0.02	19.10	-0.9719	-0.0545	-0.3353	0.0561	0.3449	-0.0253	0.0235	-0.0396	-0.9307	1.5664
4	0.02	18.31	-0.9614	-0.0545	-0.3308	0.0567	0.3440	-0.0360	0.0235	-0.0495	-0.6527	1.3749
5	0.02	17.46	-0.9327	-0.0563	-0.3239	0.0603	0.3473	-0.0710	0.0191	-0.0462	-0.2690	0.6515
6	0.02	16.67	-0.9572	-0.0455	-0.3443	0.0475	0.3596	-0.0733	0.0123	-0.0450	-0.1685	0.6143
7	0.02	15.87	-0.9251	-0.0412	-0.3435	0.0446	0.3713	-0.0682	0.0073	-0.0399	-0.1078	0.5854
8	0.02	15.12	-0.8975	-0.0405	-0.3386	0.0452	0.3772	-0.0381	0.0012	-0.0266	-0.0315	0.6980
9	0.02	14.31	-0.8655	-0.0364	-0.3317	0.0420	0.3832	-0.0678	-0.0011	-0.0207	0.0241	0.4336
10	0.01	13.56	-0.8267	-0.0336	-0.3225	0.0407	0.3901	-0.0355	-0.0037	-0.0141	0.1056	0.3980
11	0.01	12.77	-0.7907	-0.0308	-0.3150	0.0390	0.3985	-0.0141	-0.0062	-0.0085	0.4396	0.6027
12	0.01	12.00	-0.7486	-0.0291	-0.3013	0.0389	0.4025	-0.0030	-0.0072	0.0014	2.4162	-0.4668
13	0.01	11.18	-0.6955	-0.0277	-0.2849	0.0399	0.4097	-0.0035	-0.0055	0.0014	1.5711	-0.4096
14	0.01	10.42	-0.6364	-0.0263	-0.2724	0.0413	0.4281	0.0094	-0.0056	0.0038	-0.6010	0.4077
15	0.0	9.60	-0.5691	-0.0244	-0.2551	0.0415	0.4330	0.0217	-0.0042	0.0071	-0.1935	0.3286
16	0.0	8.79	-0.5454	-0.0228	-0.2460	0.0419	0.4401	0.0212	-0.0044	0.0095	-0.2099	0.4464
17	0.01	7.96	-0.4808	-0.0202	-0.2215	0.0421	0.4615	0.0347	-0.0036	0.0079	-0.1037	0.2266
18	0.0	7.19	-0.4278	-0.0188	-0.2005	0.0439	0.4688	0.0366	-0.0031	0.0079	-0.0896	0.2292
19	0.0	6.43	-0.3823	-0.0183	-0.1816	0.0478	0.4750	0.0345	-0.0027	0.0079	-0.0782	0.2289
20	0.0	5.58	-0.3225	-0.0166	-0.1570	0.0516	0.4867	0.0431	-0.0018	0.0085	-0.0429	0.1963
21	0.0	4.74	-0.2573	-0.0147	-0.1347	0.0571	0.5237	0.0334	-0.0012	0.0111	-0.0374	0.3332
22	0.0	3.97	-0.2123	-0.0119	-0.1133	0.0560	0.5339	0.0254	-0.0007	0.0066	-0.0276	0.2584
23	0.0	3.18	-0.1448	-0.0101	-0.0962	0.0697	0.6647	0.0255	-0.0007	0.0065	-0.0274	0.2548
24	0.0	2.44	-0.0943	-0.0080	-0.0778	0.0848	0.8253	0.0254	-0.0006	0.0066	-0.0236	0.2584
25	0.0	1.65	-0.0583	-0.0067	-0.0562	0.1149	0.9644	0.0118	-0.0005	0.0073	-0.0466	0.6213
26	0.0	0.91	-0.0144	-0.0056	-0.0338	0.3888	2.3471	0.0247	-0.0001	0.0090	-0.0040	0.3656
27	0.0	0.16	0.0278	-0.0040	-0.0159	-0.1439	-0.5733	0.0208	-0.0004	0.0070	-0.0216	0.3380
28	0.0	-0.64	0.0665	-0.0034	-0.0008	-0.0519	-0.0126	0.0118	-0.0005	0.0073	-0.0466	0.6213
29	0.0	-1.46	0.1151	-0.0008	0.0206	-0.0069	0.1794	0.0072	-0.0005	0.0079	-0.0764	1.0971
30	0.0	-2.26	0.1603	0.0001	0.0403	0.0009	0.2515	0.0117	-0.0000	0.0074	-0.0043	0.6324
31	0.0	-3.08	0.1973	0.0024	0.0599	0.0124	0.3038	0.0168	-0.0005	0.0052	-0.0327	0.3094
32	0.0	-3.87	0.2457	0.0049	0.0824	0.0199	0.3352	0.0341	-0.0002	0.0079	-0.0073	0.2306
33	0.0	-4.64	0.3096	0.0081	0.1008	0.0261	0.3255	0.0035	-0.0003	0.0044	-0.0857	1.2475
34	0.0	-5.41	0.3599	0.0106	0.1197	0.0296	0.3327	-0.0067	-0.0002	0.0095	0.0298	-1.4131
35	0.0	-6.21	0.4197	0.0130	0.1374	0.0310	0.3285	-0.0101	-0.0006	0.0051	0.0643	-0.5084
36	0.0	-7.02	0.4702	0.0155	0.1651	0.0330	0.3511	-0.0109	-0.0005	0.0065	0.0504	-0.7769
37	0.0	-7.80	0.5151	0.0176	0.1873	0.0342	0.3637	-0.0103	-0.0006	0.0060	0.0631	-0.5794
38	0.0	-8.62	0.5614	0.0204	0.2068	0.0363	0.3683	-0.0240	-0.0005	0.0068	0.0208	-0.2835
39	0.0	-9.38	0.6165	0.0243	0.2177	0.0394	0.3532	-0.0139	-0.0005	0.0024	0.0360	-0.1704
40	0.0	-10.20	0.6670	0.0263	0.2377	0.0394	0.3564	-0.0139	-0.0005	0.0024	0.0360	-0.1704
41	0.0	-10.96	0.7142	0.0288	0.2554	0.0404	0.3576	-0.0101	-0.0005	0.0051	0.0544	-0.5084
42	0.0	-11.72	0.7856	0.0314	0.2695	0.0400	0.3430	-0.0142	-0.0001	0.0032	0.0106	-0.2231
43	0.0	-12.54	0.8253	0.0333	0.2847	0.0404	0.3450	-0.0139	-0.0005	0.0024	0.0360	-0.1704
44	0.0	-13.29	0.8790	0.0370	0.2991	0.0421	0.3403	-0.0113	-0.0005	0.0005	0.0176	-0.0150
45	0.0	-14.18	0.9182	0.0410	0.3086	0.0447	0.3360	-0.0352	-0.0007	-0.0014	0.0199	0.0406
46	0.0	-14.98	0.9548	0.0466	0.3158	0.0488	0.3307	-0.0404	-0.0006	0.0014	0.0161	-0.0356

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	140	0.85	1.7	0.0	0.2	MOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.0	-15.81	0.9846	0.0521	0.3197	0.0529	0.3247	-0.0352	-0.0007	-0.0014	0.0199	0.0406
48	-0.01	-16.61	0.9710	0.0615	0.2936	0.0633	0.3023	-0.0175	-0.0010	-0.0003	0.0600	0.0189
49	0.0	-17.47	1.0069	0.0601	0.3061	0.0597	0.3040	-0.0349	-0.0010	-0.0023	0.0301	0.0667
50	-0.01	-18.33	1.0369	0.0611	0.3171	0.0589	0.3058	-0.0348	-0.0014	-0.0023	0.0417	0.0660
51	0.0	-19.20	1.0561	0.0630	0.3161	0.0597	0.2993	-0.0529	-0.0012	-0.0018	0.0227	0.0345
52	-0.01	-19.96	1.0678	0.0632	0.3199	0.0592	0.2996	-0.0604	-0.0012	-0.0073	0.0207	0.1213

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	141	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	3.01	19.79	0.3940	-0.7076	-3.4446	7.5482	-0.2350	0.0126	-1.7958		
2	3.01	20.07	0.4041	-0.7758	-3.5059	7.3580	-0.2490	0.0443	-1.9195		
3	3.01	20.67	0.5230	-1.1502	-3.6047	7.2163	-0.3180	0.0724	-2.1991		
4	3.01	20.22	0.4397	-0.9306	-3.6406	7.4236	-0.2810	0.0533	-2.1162		
5	3.02	19.36	0.3495	-0.7263	-3.6985	7.5326	-0.2320	0.0221	-1.8179		
6	3.02	18.60	0.3795	-0.5672	-3.5740	7.7323	-0.1870	-0.0251	-1.4949		
7	3.02	17.71	0.3167	-0.3873	-3.4803	7.7401	-0.1120	-0.0418	-1.2232		
8	3.02	16.92	0.3117	-0.3373	-3.3548	7.5023	-0.0960	-0.0363	-1.0824		
9	3.03	16.14	0.3643	-0.4310	-3.1266	7.1609	-0.1130	-0.0158	-1.1831		
10	3.02	15.38	0.3470	-0.4767	-2.9669	6.8893	-0.0820	-0.0140	-1.3741		
11	3.02	14.57	0.3625	-0.5860	-2.8140	6.5423	-0.0570	-0.0115	-1.6149		
12	3.02	13.82	0.3113	-0.3888	-2.7179	6.5318	0.0160	-0.0068	-1.2490		
13	3.02	13.05	0.3311	-0.5075	-2.5354	6.2172	0.0210	0.0046	-1.5329		
14	3.02	12.32	0.3307	-0.4959	-2.3547	5.8192	0.0340	0.0195	-1.4998		
15	3.02	11.49	0.3573	-0.6001	-2.2410	5.4591	0.0350	0.0208	-1.6799		
16	3.01	10.72	0.3502	-0.6462	-2.0255	5.0625	0.0360	0.0363	-1.8455		
17	3.01	9.88	0.3721	-0.7168	-1.8521	4.6336	0.0350	0.0484	-1.9267		
18	3.01	9.11	0.4053	-0.8404	-1.6882	4.2672	0.0360	0.0542	-2.0734		
19	3.01	8.30	0.4340	-0.9196	-1.5362	3.8904	0.0330	0.0619	-2.1187		
20	3.01	7.51	0.4366	-0.9773	-1.3652	3.4441	0.0310	0.0684	-2.2381		
21	3.01	6.72	0.4372	-0.9781	-1.1869	3.0185	0.0250	0.0737	-2.2370		
22	3.01	5.92	0.4459	-1.0063	-1.0029	2.5989	0.0250	0.0819	-2.2565		
23	3.00	5.07	0.4549	-1.0529	-0.8860	2.1483	0.0150	0.0862	-2.3143		
24	3.00	4.30	0.4394	-1.0472	-0.7254	1.7505	0.0150	0.0863	-2.3829		
25	3.00	3.51	0.4539	-1.0715	-0.6034	1.4387	0.0130	0.0878	-2.3603		
26	3.00	2.78	0.4384	-1.0728	-0.4183	1.0706	0.0130	0.0902	-2.4467		
27	3.00	1.97	0.4688	-1.1373	-0.3147	0.7835	0.0090	0.0908	-2.4258		
28	3.00	1.22	0.4701	-1.1401	-0.2362	0.5386	0.0100	0.0898	-2.4251		
29	3.00	0.47	0.4742	-1.1439	-0.0710	0.2414	0.0100	0.0936	-2.4120		
30	3.00	-0.27	0.4756	-1.1608	0.0151	-0.0301	0.0110	0.0975	-2.4406		
31	3.00	-1.08	0.4604	-1.1236	0.1428	-0.2819	0.0090	0.0992	-2.4402		
32	3.00	-1.86	0.4784	-1.1527	0.2340	-0.5125	0.0100	0.0984	-2.4094		
33	3.00	-2.69	0.4696	-1.0934	0.4156	-0.8711	0.0060	0.1000	-2.3282		
34	3.00	-3.51	0.4533	-1.0356	0.5056	-1.1098	0.0060	0.1034	-2.2844		
35	3.00	-4.33	0.4642	-1.0579	0.6481	-1.5443	0.0060	0.1076	-2.2787		
36	3.00	-5.05	0.4311	-1.0145	0.7556	-1.8067	0.0040	0.1128	-2.3532		
37	3.00	-5.86	0.4491	-1.0247	0.9315	-2.2739	0.0	0.1147	-2.2816		
38	3.01	-6.63	0.4461	-0.9866	1.1135	-2.6907	-0.0050	0.1108	-2.2113		
39	3.00	-7.47	0.4354	-0.9826	1.2423	-3.1681	-0.0040	0.1150	-2.2565		
40	3.01	-8.23	0.4630	-1.0312	1.3862	-3.4855	-0.0110	0.1158	-2.2270		
41	3.01	-9.02	0.4230	-0.9282	1.6302	-3.5760	-0.0130	0.1111	-2.1941		
42	3.00	-9.79	0.4279	-0.9221	1.7225	-4.2502	-0.0140	0.1078	-2.1547		
43	3.01	-10.55	0.3883	-0.7907	1.9394	-4.7929	-0.0210	0.1005	-2.0359		
44	3.01	-11.32	0.3953	-0.7935	2.1357	-5.2127	-0.0220	0.0946	-2.0070		
45	3.01	-12.07	0.3530	-0.6971	2.2465	-5.5938	-0.0260	0.0948	-1.9751		
46	3.01	-12.88	0.3720	-0.7137	2.4472	-6.0177	-0.0300	0.0833	-1.9188		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	141	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	3.01	-13.64	0.3759	-0.7022	2.6405	-6.3793	-0.0290	0.0700	-1.8682	
48	3.01	-14.52	0.3601	-0.7224	2.7423	-6.3999	0.0230	0.0742	-1.9736	
49	3.01	-15.35	0.3535	-0.7338	2.8389	-6.6971	0.0310	0.0684	-2.0761	
50	3.01	-16.16	0.3269	-0.5706	3.0879	-7.1177	0.0510	0.0589	-1.7457	
51	3.01	-16.96	0.3102	-0.4902	3.2497	-7.4762	0.0650	0.0538	-1.5805	
52	3.01	-17.86	0.2951	-0.5041	3.3815	-7.6737	0.0630	0.0539	-1.7084	
53	3.02	-18.68	0.3563	-0.6017	3.4773	-7.7279	0.1390	0.0662	-1.6891	
54	3.00	-19.52	0.4200	-0.9130	3.5860	-7.5581	0.2080	0.1055	-2.1736	
55	3.01	-20.27	0.4676	-0.9537	3.7052	-7.7680	0.2560	0.1103	-2.0393	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACF	RX10-6	PHI	CNF1	L	DEL1	DEL2	OEL3	DEL4	TRANSITION		
6	141	0.85	1.7	0.0	0.2	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.01	19.79	-1.2177	-0.0391	-0.3299	0.0321	0.2709	0.2407	0.0085	0.0971	0.0353	0.4034
2	3.01	20.07	-1.2255	-0.0361	-0.3305	0.0294	0.2697	0.2517	0.0088	0.1004	0.0352	0.3988
3	3.01	20.67	-1.2690	-0.0330	-0.3430	0.0260	0.2703	0.2518	0.0090	0.1025	0.0359	0.4071
4	3.01	20.22	-1.2476	-0.0345	-0.3397	0.0277	0.2723	0.2535	0.0091	0.1020	0.0361	0.4022
5	3.02	19.36	-1.2111	-0.0346	-0.3252	0.0286	0.2685	0.2456	0.0091	0.0992	0.0370	0.4041
6	3.02	18.60	-1.1958	-0.0403	-0.3224	0.0337	0.2696	0.2445	0.0094	0.0971	0.0384	0.3970
7	3.02	17.71	-1.1488	-0.0381	-0.3086	0.0332	0.2686	0.2449	0.0092	0.0942	0.0378	0.3847
8	3.02	16.92	-1.1007	-0.0367	-0.2996	0.0334	0.2722	0.2394	0.0088	0.0949	0.0368	0.3963
9	3.03	16.14	-1.0503	-0.0345	-0.2916	0.0328	0.2776	0.2416	0.0089	0.0935	0.0368	0.3870
10	3.02	15.38	-0.9998	-0.0317	-0.2753	0.0317	0.2753	0.2444	0.0090	0.0955	0.0368	0.3909
11	3.02	14.57	-0.9390	-0.0302	-0.2646	0.0322	0.2818	0.2365	0.0084	0.0920	0.0355	0.3890
12	3.02	13.82	-0.8889	-0.0288	-0.2519	0.0324	0.2834	0.2302	0.0085	0.0904	0.0371	0.3927
13	3.02	13.05	-0.8500	-0.0269	-0.2403	0.0316	0.2826	0.2312	0.0086	0.0919	0.0372	0.3977
14	3.02	12.32	-0.7981	-0.0247	-0.2311	0.0310	0.2896	0.2253	0.0078	0.0876	0.0346	0.3887
15	3.02	11.49	-0.7518	-0.0233	-0.2176	0.0310	0.2895	0.2384	0.0078	0.0890	0.0327	0.3735
16	3.01	10.72	-0.7075	-0.0210	-0.2096	0.0297	0.2963	0.2255	0.0070	0.0840	0.0313	0.3727
17	3.01	9.88	-0.6516	-0.0189	-0.1994	0.0291	0.3061	0.2300	0.0074	0.0856	0.0322	0.3723
18	3.01	9.11	-0.6047	-0.0171	-0.1866	0.0283	0.3086	0.2359	0.0078	0.0876	0.0331	0.3714
19	3.01	8.30	-0.5624	-0.0145	-0.1750	0.0258	0.3112	0.2325	0.0074	0.0873	0.0318	0.3754
20	3.01	7.51	-0.5034	-0.0129	-0.1583	0.0257	0.3145	0.2310	0.0075	0.0849	0.0327	0.3674
21	3.01	6.72	-0.4444	-0.0122	-0.1449	0.0274	0.3260	0.2293	0.0068	0.0849	0.0297	0.3703
22	3.01	5.92	-0.3949	-0.0116	-0.1232	0.0294	0.3119	0.2240	0.0067	0.0834	0.0299	0.3725
23	3.00	5.07	-0.3192	-0.0107	-0.1048	0.0335	0.3282	0.2235	0.0065	0.0845	0.0293	0.3780
24	3.00	4.30	-0.2743	-0.0093	-0.0868	0.0339	0.3165	0.2209	0.0064	0.0809	0.0290	0.3663
25	3.00	3.51	-0.2160	-0.0076	-0.0705	0.0354	0.3263	0.2141	0.0063	0.0814	0.0294	0.3804
26	3.00	2.78	-0.1664	-0.0056	-0.0531	0.0336	0.3194	0.2102	0.0060	0.0764	0.0285	0.3637
27	3.00	1.97	-0.1248	-0.0043	-0.0402	0.0348	0.3220	0.2071	0.0064	0.0753	0.0309	0.3636
28	3.00	1.22	-0.0841	-0.0036	-0.0243	0.0434	0.2892	0.2017	0.0067	0.0724	0.0332	0.3590
29	3.00	0.47	-0.0389	-0.0033	-0.0072	0.0861	0.1841	0.1923	0.0062	0.0726	0.0322	0.3774
30	3.00	-0.27	0.0163	-0.0033	0.0043	-0.2024	0.2657	0.1900	0.0061	0.0689	0.0321	0.3627
31	3.00	-1.08	0.0577	-0.0034	0.0203	-0.0589	0.3523	0.1808	0.0058	0.0661	0.0324	0.3658
32	3.00	-1.86	0.0958	-0.0035	0.0315	-0.0370	0.3290	0.1749	0.0058	0.0647	0.0332	0.3698
33	3.00	-2.69	0.1372	-0.0022	0.0494	-0.0160	0.3638	0.1608	0.0049	0.0601	0.0305	0.3736
34	3.00	-3.51	0.1711	-0.0016	0.0608	-0.0096	0.3554	0.1488	0.0035	0.0553	0.0235	0.3715
35	3.00	-4.33	0.2259	-0.0006	0.0785	-0.0029	0.3474	0.1474	0.0024	0.0546	0.0166	0.3705
36	3.00	-5.05	0.2759	0.0006	0.0982	0.0024	0.3560	0.1397	0.0000	0.0526	0.0004	0.3769
37	3.00	-5.86	0.3478	0.0009	0.1186	0.0027	0.3410	0.1387	-0.0035	0.0521	-0.0256	0.3758
38	3.01	-6.63	0.3883	0.0011	0.1369	0.0028	0.3525	0.1355	-0.0063	0.0522	-0.0469	0.3856
39	3.00	-7.47	0.4558	0.0013	0.1553	0.0029	0.3407	0.1244	-0.0103	0.0512	-0.0832	0.4120
40	3.01	-8.23	0.4922	0.0016	0.1700	0.0032	0.3454	0.1228	-0.0137	0.0522	-0.1115	0.4252
41	3.01	-9.02	0.5468	0.0035	0.1867	0.0064	0.3414	0.1084	-0.0177	0.0510	-0.1633	0.4707
42	3.00	-9.79	0.5893	0.0047	0.1972	0.0081	0.3346	0.0923	-0.0208	0.0493	-0.2259	0.5347
43	3.01	-10.55	0.6443	0.0070	0.2115	0.0109	0.3282	0.0849	-0.0254	0.0475	-0.2591	0.5594
44	3.01	-11.32	0.6965	0.0086	0.2196	0.0124	0.3153	0.0742	-0.0303	0.0458	-0.4090	0.6176
45	3.01	-12.07	0.7392	0.0103	0.2300	0.0140	0.3112	0.0600	-0.0337	0.0435	-0.5616	0.7249
46	3.01	-12.88	0.7815	0.0113	0.2446	0.0145	0.3130	0.0584	-0.0376	0.0455	-0.6446	0.7784

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	141	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI	CO1	XCPF1	YCPF1	CNF2	CH2	CO2	XCPF2	YCPF2
47	3.01	-13.64	0.8330	0.0129	0.2541	0.0155	0.3050	0.0442	-0.0431	0.0440	-0.9761	0.9961
48	3.01	-14.52	0.8832	0.0137	0.2715	0.0155	0.3074	0.0443	-0.0487	0.0470	-1.0991	1.0601
49	3.01	-15.35	0.9224	0.0144	0.2755	0.0157	0.2986	0.0384	-0.0512	0.0445	-1.3331	1.1587
50	3.01	-16.16	0.9864	0.0165	0.2905	0.0168	0.2945	0.0151	-0.0550	0.0371	-3.6450	2.4590
51	3.01	-16.96	1.0397	0.0194	0.3036	0.0187	0.2920	0.0048	-0.0586	0.0396	-12.2166	8.2499
52	3.01	-17.86	1.0736	0.0191	0.3120	0.0178	0.2907	0.0080	-0.0630	0.0427	-7.8736	5.3332
53	3.02	-18.68	1.1224	0.0260	0.3221	0.0232	0.2870	-0.0326	-0.0555	0.0153	1.7021	-0.4705
54	3.00	-19.52	1.1439	0.0188	0.3313	0.0164	0.2896	-0.0124	-0.0595	0.0258	4.8016	-2.0781
55	3.01	-20.27	1.1832	0.0201	0.3403	0.0170	0.2876	-0.0415	-0.0573	0.0179	1.3805	-0.4306

MARTIN MISSILE TAILS EFFECTS DATA

TEST. PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	141	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.01	19.79	-0.8515	-0.0530	-0.2865	0.0623	0.3365	-0.0509	-0.0506	0.0210	0.9949	-0.4133
2	3.01	20.07	-0.8065	-0.0515	-0.2730	0.0638	0.3385	-0.0385	-0.0535	0.0292	1.3907	-0.7577
3	3.01	20.67	-0.7002	-0.0366	-0.2408	0.0523	0.3439	-0.0182	-0.0548	0.0396	3.0105	-2.1778
4	3.01	20.22	-0.7179	-0.0412	-0.2507	0.0574	0.3492	-0.0267	-0.0547	0.0374	2.0502	-1.4009
5	3.02	19.36	-0.8394	-0.0519	-0.2788	0.0619	0.3321	-0.0524	-0.0558	0.0325	1.0647	-0.6210
6	3.02	18.60	-0.9311	-0.0581	-0.3140	0.0624	0.3372	-0.0676	-0.0479	0.0133	0.7092	-0.1964
7	3.02	17.71	-0.9965	-0.0604	-0.3363	0.0606	0.3374	-0.0595	-0.0525	0.0213	0.8830	-0.3575
8	3.02	16.92	-0.9539	-0.0580	-0.3408	0.0608	0.3370	-0.0673	-0.0495	0.0142	0.7354	-0.2106
9	3.03	16.14	-0.9281	-0.0551	-0.3327	0.0594	0.3384	-0.0814	-0.0476	0.0149	0.5853	-0.1828
10	3.02	15.38	-0.8985	-0.0539	-0.3301	0.0600	0.3674	-0.0339	-0.0513	0.0262	1.5145	-0.7730
11	3.02	14.57	-0.8685	-0.0562	-0.3297	0.0647	0.3796	-0.0184	-0.0495	0.0347	2.6897	-1.8842
12	3.02	13.82	-0.9201	-0.0429	-0.3556	0.0467	0.3865	-0.0021	-0.0488	0.0426	-23.2578	20.2856
13	3.02	13.05	-0.8747	-0.0382	-0.3465	0.0437	0.3961	0.0185	-0.0458	0.0461	-2.4779	2.4900
14	3.02	12.32	-0.8213	-0.0358	-0.3311	0.0436	0.4032	0.0474	-0.0422	0.0529	-0.8912	1.1159
15	3.02	11.49	-0.7614	-0.0332	-0.3208	0.0437	0.4213	0.0540	-0.0385	0.0590	-0.7138	1.0925
16	3.01	10.72	-0.6966	-0.0303	-0.3007	0.0438	0.4317	0.0745	-0.0328	0.0603	-0.4402	0.8097
17	3.01	9.88	-0.6512	-0.0279	-0.2871	0.0429	0.4408	0.0955	-0.0289	0.0616	-0.3031	0.6453
18	3.01	9.11	-0.5852	-0.0256	-0.2715	0.0437	0.4639	0.1163	-0.0234	0.0620	-0.2016	0.5336
19	3.01	8.30	-0.5291	-0.0216	-0.2537	0.0409	0.4795	0.1403	-0.0174	0.0669	-0.1244	0.4772
20	3.01	7.51	-0.4672	-0.0197	-0.2314	0.0421	0.4952	0.1334	-0.0132	0.0722	-0.0993	0.5416
21	3.01	6.72	-0.4076	-0.0193	-0.2066	0.0475	0.5069	0.1420	-0.0099	0.0695	-0.0697	0.4896
22	3.01	5.92	-0.3492	-0.0176	-0.1855	0.0505	0.5310	0.1450	-0.0061	0.0704	-0.0424	0.4856
23	3.00	5.07	-0.2740	-0.0157	-0.1577	0.0575	0.5756	0.1439	-0.0023	0.0703	-0.0160	0.4889
24	3.00	4.30	-0.2168	-0.0130	-0.1362	0.0602	0.6284	0.1433	-0.0002	0.0703	-0.0014	0.4909
25	3.00	3.51	-0.1715	-0.0111	-0.1165	0.0650	0.6796	0.1517	0.0012	0.0701	0.0082	0.4624
26	3.00	2.78	-0.1116	-0.0085	-0.0922	0.0762	0.8260	0.1642	0.0023	0.0718	0.0143	0.4374
27	3.00	1.97	-0.0641	-0.0069	-0.0687	0.1084	1.0727	0.1672	0.0034	0.0761	0.0203	0.4552
28	3.00	1.22	-0.0237	-0.0058	-0.0487	0.2488	2.0547	0.1720	0.0030	0.0782	0.0177	0.4547
29	3.00	0.47	0.0336	-0.0046	-0.0279	-0.1384	-0.8305	0.1762	0.0035	0.0812	0.0199	0.4609
30	3.00	-0.27	0.0864	-0.0032	-0.0064	-0.0370	-0.0742	0.1934	0.0041	0.0841	0.0212	0.4351
31	3.00	-1.08	0.1204	-0.0018	0.0103	-0.0154	0.0857	0.1719	0.0029	0.0836	0.0169	0.4862
32	3.00	-1.86	0.1696	-0.0006	0.0312	-0.0038	0.1840	0.1944	0.0038	0.0845	0.0198	0.4346
33	3.00	-2.69	0.2257	0.0019	0.0554	0.0086	0.2455	0.1807	0.0033	0.0861	0.0185	0.4765
34	3.00	-3.51	0.2804	0.0041	0.0749	0.0148	0.2669	0.1901	0.0035	0.0859	0.0184	0.4521
35	3.00	-4.33	0.3302	0.0073	0.0956	0.0222	0.2896	0.1845	0.0034	0.0906	0.0187	0.4909
36	3.00	-5.05	0.3779	0.0107	0.1207	0.0283	0.3195	0.1809	0.0039	0.0863	0.0216	0.4769
37	3.00	-5.86	0.4344	0.0133	0.1450	0.0307	0.3337	0.1949	0.0035	0.0846	0.0180	0.4343
38	3.01	-6.63	0.4957	0.0154	0.1657	0.0311	0.3342	0.1904	0.0039	0.0825	0.0205	0.4335
39	3.00	-7.47	0.5550	0.0177	0.1917	0.0319	0.3455	0.1841	0.0034	0.0903	0.0187	0.4907
40	3.01	-8.23	0.6157	0.0200	0.2132	0.0325	0.3462	0.1877	0.0050	0.0897	0.0269	0.4761
41	3.01	-9.02	0.6678	0.0240	0.2292	0.0360	0.3432	0.1754	0.0038	0.0863	0.0219	0.4923
42	3.00	-9.79	0.7187	0.0271	0.2480	0.0377	0.3450	0.1752	0.0038	0.0872	0.0220	0.4976
43	3.01	-10.55	0.7839	0.0305	0.2649	0.0390	0.3379	0.1530	0.0039	0.0858	0.0255	0.5607
44	3.01	-11.32	0.8398	0.0338	0.2833	0.0402	0.3374	0.1662	0.0038	0.0874	0.0232	0.5258
45	3.01	-12.07	0.9011	0.0368	0.2986	0.0409	0.3313	0.1476	0.0042	0.0896	0.0288	0.6069
46	3.01	-12.88	0.9496	0.0399	0.3154	0.0421	0.3322	0.1523	0.0042	0.0890	0.0279	0.5847

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	141	0.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.01	-13.04	0.9906	0.0443	0.3264	0.0444	0.3275	0.1523	0.0041	0.0691	0.0269	0.5853
48	3.01	-14.52	0.9536	0.0562	0.2930	0.0569	0.3072	0.1400	0.0042	0.0841	0.0300	0.6011
49	3.01	-15.35	0.9905	0.0565	0.3044	0.0570	0.3073	0.1484	0.0039	0.0871	0.0263	0.5873
50	3.01	-16.16	1.0395	0.0502	0.3095	0.0560	0.2977	0.1392	0.0043	0.0875	0.0309	0.6285
51	3.01	-16.96	1.0733	0.0641	0.3095	0.0597	0.2884	0.1453	0.0034	0.0830	0.0237	0.5713
52	3.01	-17.86	1.0842	0.0640	0.3133	0.0590	0.2890	0.1307	0.0039	0.0870	0.0298	0.6660
53	3.02	-18.68	1.0776	0.0624	0.3011	0.0579	0.2794	0.1395	0.0041	0.0877	0.0297	0.6266
54	3.00	-19.52	0.9702	0.0580	0.2612	0.0598	0.2692	0.1483	0.0041	0.0900	0.0280	0.6070
55	3.01	-20.27	0.9145	0.0510	0.2498	0.0557	0.2732	0.1530	0.0042	0.0895	0.0278	0.5848

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION
6	142	0.85	1.7	0.0	82W0-12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	6.04	19.76	0.9770	-1.0457	-3.5146	6.8472	-0.3300	0.0539	-1.8892		
2	6.04	19.77	0.9909	-1.8065	-3.4927	6.9016	-0.3250	0.0442	-1.8240		
3	6.04	19.47	0.9900	-1.7219	-3.4064	6.9266	-0.3160	0.0285	-1.7394		
4	6.04	18.69	0.8061	-1.6485	-3.4220	6.9305	-0.2640	0.0203	-1.8604		
5	6.03	17.84	0.8489	-1.5284	-3.4013	7.0315	-0.2300	0.0013	-1.8005		
6	6.05	17.05	0.8267	-1.3053	-3.3512	7.2163	-0.1790	-0.0351	-1.5790		
7	6.04	16.25	0.8013	-1.3308	-3.1974	7.0330	-0.0960	-0.0380	-1.6608		
8	6.04	15.49	0.8541	-1.4977	-2.9994	6.7158	-0.0930	-0.0366	-1.7535		
9	6.04	14.72	0.8813	-1.6047	-2.8006	6.3656	-0.0760	-0.0262	-1.8209		
10	6.03	13.94	0.9117	-1.7793	-2.6460	6.0430	-0.0440	-0.0195	-1.9517		
11	6.04	13.16	0.8681	-1.5773	-2.5429	6.0017	0.0030	-0.0168	-1.8170		
12	6.02	12.41	0.8701	-1.7421	-2.3598	5.6294	0.0280	-0.0051	-2.0022		
13	6.02	11.63	0.8830	-1.8261	-2.2135	5.2286	0.0200	0.0081	-2.0681		
14	6.02	10.87	0.8979	-1.8770	-2.0461	4.8833	0.0270	0.0169	-2.0904		
15	6.01	10.02	0.9238	-2.0032	-1.8539	4.5341	0.0280	0.0326	-2.1685		
16	6.01	9.27	0.9107	-2.0708	-1.6895	4.1740	0.0310	0.0451	-2.2740		
17	6.01	8.44	0.9450	-2.1629	-1.5420	3.7916	0.0310	0.0555	-2.2888		
18	6.00	7.65	0.9530	-2.2250	-1.4151	3.4030	0.0250	0.0637	-2.3348		
19	6.00	6.86	0.9621	-2.2948	-1.2562	2.9826	0.0220	0.0714	-2.3852		
20	6.00	6.08	0.9934	-2.3706	-1.0781	2.5641	0.0150	0.0771	-2.3664		
21	6.00	5.22	0.9708	-2.3621	-0.9084	2.1286	0.0140	0.0823	-2.4134		
22	6.00	4.45	0.9933	-2.3944	-0.7742	1.7948	0.0090	0.0847	-2.4107		
23	5.99	3.67	1.0027	-2.4436	-0.6131	1.4873	0.0080	0.0829	-2.4371		
24	5.99	2.96	1.0038	-2.5031	-0.5194	1.1961	0.0060	0.0841	-2.4937		
25	5.98	2.14	1.0045	-2.5151	-0.3990	0.9146	0.0030	0.0933	-2.5039		
26	5.98	1.38	1.0140	-2.5344	-0.2357	0.6029	0.0	0.0988	-2.4995		
27	5.98	0.64	1.0170	-2.5506	-0.0972	0.3170	0.0100	0.1039	-2.5081		
28	5.98	-0.10	1.0100	-2.5238	-0.0196	0.0824	0.0110	0.1033	-2.4989		
29	5.98	-0.94	0.9838	-2.4911	0.0927	-0.1918	0.0170	0.1034	-2.5322		
30	5.98	-1.70	1.0078	-2.5557	0.2052	-0.4502	0.0200	0.1042	-2.5360		
31	5.99	-2.51	1.0063	-2.4866	0.3353	-0.7473	0.0190	0.1028	-2.4711		
32	5.99	-3.31	1.0027	-2.4916	0.4484	-1.0028	0.0160	0.1040	-2.4850		
33	5.99	-4.15	0.9663	-2.3656	0.6025	-1.3415	0.0120	0.1078	-2.4482		
34	5.99	-4.88	0.9741	-2.4156	0.7851	-1.6851	0.0120	0.1086	-2.4799		
35	5.99	-5.66	0.9791	-2.3516	0.8467	-2.0173	0.0110	0.1052	-2.4018		
36	5.99	-6.44	0.9381	-2.2322	1.0376	-2.5264	0.0050	0.1046	-2.3745		
37	6.00	-7.29	0.9597	-2.2194	1.1667	-2.8803	0.0040	0.0988	-2.3127		
38	5.99	-8.04	0.9253	-2.1473	1.3657	-3.2648	0.0070	0.0951	-2.3207		
39	6.00	-8.85	0.9396	-2.1263	1.5339	-3.6793	0.0	0.0908	-2.2630		
40	6.00	-9.61	0.9718	-2.1364	1.6814	-4.0447	-0.0020	0.0806	-2.1904		
41	6.00	-10.37	0.9195	-1.9932	1.8170	-4.3765	-0.0020	0.0778	-2.1677		
42	6.00	-11.15	0.9055	-1.9436	2.0210	-4.6362	-0.0010	0.0696	-2.1465		
43	6.00	-11.89	0.9131	-1.9582	2.1982	-5.2002	-0.0030	0.0646	-2.1446		
44	6.01	-12.70	0.8680	-1.7551	2.3890	-5.7183	-0.0130	0.0585	-2.0220		
45	6.01	-13.46	0.8594	-1.8131	2.6685	-5.8366	0.0250	0.0594	-2.1097		
46	6.01	-14.32	0.8551	-1.7480	2.6645	-6.1319	0.0440	0.0626	-2.0443		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION	
6	142	0.85	1.7	0.0	BZWF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	6.01	-15.14	0.8273	-1.6261	2.8149	-6.5226	0.0580	0.0580	-1.9056		
48	6.01	-15.95	0.8373	-1.6851	2.9880	-6.7389	0.0780	0.0738	-2.0126		
49	6.01	-16.75	0.7879	-1.5220	3.1300	-7.0816	0.0770	0.0600	-1.9317		
50	6.01	-17.60	0.8318	-1.6584	3.1823	-6.9849	0.1530	0.0858	-1.9938		
51	6.00	-18.44	0.9753	-2.2203	3.1809	-6.5000	0.2750	0.1514	-2.2766		
52	5.99	-19.29	1.0674	-2.6092	3.1627	-6.2175	0.3440	0.1856	-2.4445		
53	5.98	-20.06	1.0643	-2.6838	3.3320	-6.5175	0.3430	0.1639	-2.5218		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	142	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	COL	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	6.04	19.76	-1.1104	-0.0188	-0.2490	0.0170	0.2693	0.5039	0.0178	0.1897	0.0353	0.3765
2	6.04	19.77	-1.0977	-0.0167	-0.3001	0.0152	0.2734	0.5142	0.0179	0.1918	0.0348	0.3731
3	6.04	19.47	-1.0979	-0.0203	-0.2965	0.0185	0.2701	0.5043	0.0188	0.1868	0.0374	0.3705
4	6.04	18.69	-1.0720	-0.0181	-0.2924	0.0169	0.2728	0.4942	0.0182	0.1867	0.0368	0.3777
5	6.03	17.84	-1.0380	-0.0193	-0.2865	0.0186	0.2764	0.4994	0.0179	0.1864	0.0358	0.3733
6	6.03	17.05	-1.0065	-0.0260	-0.2740	0.0258	0.2722	0.4994	0.0180	0.1864	0.0361	0.3733
7	6.04	16.25	-0.9555	-0.0218	-0.2611	0.0228	0.2733	0.4900	0.0175	0.1828	0.0358	0.3730
8	6.04	15.49	-0.9123	-0.0211	-0.2535	0.0231	0.2779	0.4949	0.0179	0.1835	0.0363	0.3708
9	6.04	14.72	-0.8727	-0.0192	-0.2433	0.0220	0.2788	0.4910	0.0169	0.1821	0.0345	0.3709
10	6.03	13.94	-0.8298	-0.0161	-0.2299	0.0195	0.2771	0.4861	0.0169	0.1780	0.0349	0.3661
11	6.04	13.16	-0.7797	-0.0182	-0.2185	0.0234	0.2803	0.4865	0.0172	0.1761	0.0353	0.3620
12	6.02	12.41	-0.7239	-0.0148	-0.2035	0.0204	0.2811	0.4922	0.0168	0.1787	0.0341	0.3631
13	6.02	11.63	-0.6852	-0.0145	-0.1943	0.0212	0.2836	0.4919	0.0163	0.1775	0.0332	0.3609
14	6.02	10.87	-0.6332	-0.0118	-0.1861	0.0186	0.2939	0.4817	0.0154	0.1763	0.0321	0.3660
15	6.01	10.02	-0.6005	-0.0097	-0.1728	0.0162	0.2878	0.4823	0.0154	0.1745	0.0320	0.3618
16	6.01	9.27	-0.5566	-0.0070	-0.1617	0.0127	0.2905	0.4825	0.0152	0.1750	0.0315	0.3626
17	6.01	8.44	-0.5094	-0.0045	-0.1539	0.0089	0.3022	0.4731	0.0146	0.1717	0.0310	0.3630
18	6.00	7.65	-0.4563	-0.0029	-0.1436	0.0065	0.3146	0.4628	0.0139	0.1703	0.0301	0.3680
19	6.00	6.86	-0.4022	-0.0004	-0.1266	0.0010	0.3148	0.4729	0.0140	0.1704	0.0297	0.3603
20	6.00	6.08	-0.3520	-0.0009	-0.1138	0.0026	0.3233	0.4625	0.0137	0.1702	0.0297	0.3680
21	6.00	5.22	-0.2981	0.0004	-0.0952	-0.0013	0.3195	0.4562	0.0136	0.1672	0.0298	0.3665
22	6.00	4.45	-0.2528	0.0021	-0.0797	-0.0085	0.3154	0.4502	0.0133	0.1650	0.0295	0.3665
23	5.99	3.67	-0.2156	0.0029	-0.0669	-0.0137	0.3105	0.4423	0.0131	0.1628	0.0297	0.3680
24	5.99	2.96	-0.1652	0.0043	-0.0535	-0.0260	0.3241	0.4444	0.0133	0.1606	0.0299	0.3613
25	5.98	2.14	-0.1456	0.0039	-0.0411	-0.0271	0.2824	0.4323	0.0132	0.1542	0.0306	0.3566
26	5.98	1.38	-0.0962	0.0030	-0.0237	-0.0317	0.2459	0.4255	0.0128	0.1535	0.0302	0.3607
27	5.98	0.64	-0.0513	-0.0008	-0.0088	0.0156	0.1714	0.4068	0.0125	0.1477	0.0307	0.3630
28	5.98	-0.10	-0.0012	-0.0044	0.0032	3.6660	-2.6668	0.3976	0.0122	0.1446	0.0307	0.3636
29	5.98	-0.94	0.0388	-0.0085	0.0215	-0.2203	0.5549	0.3837	0.0115	0.1371	0.0301	0.3572
30	5.98	-1.70	0.0665	-0.0110	0.0368	-0.1654	0.5528	0.3712	0.0107	0.1353	0.0288	0.3645
31	5.99	-2.51	0.1084	-0.0114	0.0497	-0.1056	0.4987	0.3548	0.0099	0.1296	0.0280	0.3653
32	5.99	-3.31	0.1420	-0.0112	0.0597	-0.0792	0.4205	0.3476	0.0090	0.1260	0.0260	0.3626
33	5.99	-4.15	0.1876	-0.0098	0.0775	-0.0522	0.4132	0.3288	0.0074	0.1203	0.0225	0.3657
34	5.99	-4.88	0.2208	-0.0085	0.0906	-0.0387	0.4102	0.3181	0.0054	0.1164	0.0171	0.3659
35	5.99	-5.66	0.2711	-0.0082	0.1055	-0.0304	0.3893	0.3025	0.0023	0.1125	0.0076	0.3719
36	5.99	-6.44	0.3298	-0.0072	0.1226	-0.0220	0.3717	0.2829	-0.0023	0.1049	-0.0081	0.3707
37	6.00	-7.29	0.3624	-0.0070	0.1381	-0.0194	0.3809	0.2724	-0.0061	0.1024	-0.0224	0.3762
38	5.99	-8.04	0.4089	-0.0046	0.1519	-0.0112	0.3714	0.2476	-0.0107	0.0955	-0.0432	0.3857
39	6.00	-8.85	0.4554	-0.0031	0.1611	-0.0068	0.3534	0.2338	-0.0146	0.0919	-0.0624	0.3931
40	6.00	-9.61	0.4979	-0.0028	0.1773	-0.0056	0.3561	0.2263	-0.0187	0.0918	-0.0828	0.4057
41	6.00	-10.37	0.5540	-0.0004	0.1862	-0.0008	0.3361	0.1995	-0.0232	0.0860	-0.1163	0.4310
42	6.00	-11.15	0.5968	0.0005	0.2002	0.0009	0.3354	0.1874	-0.0280	0.0842	-0.1497	0.4495
43	6.00	-11.89	0.6265	0.0015	0.2092	0.0024	0.3339	0.1833	-0.0322	0.0828	-0.1756	0.4516
44	6.01	-12.70	0.6864	0.0034	0.2248	0.0050	0.3275	0.1654	-0.0377	0.0834	-0.2282	0.5043
45	6.01	-13.46	0.7292	0.0039	0.2330	0.0054	0.3195	0.1573	-0.0439	0.0775	-0.2790	0.4928
46	6.01	-14.32	0.7899	0.0044	0.2490	0.0056	0.3152	0.1557	-0.0470	0.0801	-0.3018	0.5143

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		142	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	6.01	-15.14	0.8315	0.0060	0.2625	0.0073	0.3157	0.1385	-0.0493	0.0745	-0.3563	0.5383
48	6.01	-15.95	0.8847	0.0082	0.2723	0.0093	0.3078	0.1306	-0.0529	0.0747	-0.4050	0.5721
49	6.01	-16.75	0.9284	0.0048	0.2841	0.0106	0.3060	0.1288	-0.0577	0.0785	-0.4479	0.6096
50	6.01	-17.60	0.9726	0.0090	0.2985	0.0093	0.3069	0.1326	-0.0606	0.0797	-0.4573	0.6009
51	6.00	-18.44	1.0156	0.0026	0.3153	0.0026	0.3105	0.1917	-0.0631	0.0981	-0.3294	0.5116
52	5.99	-19.29	1.0723	0.0002	0.3305	0.0002	0.3082	0.2017	-0.0643	0.1015	-0.3187	0.5033
53	5.98	-20.06	1.0498	-0.0007	0.3410	-0.0006	0.3100	0.2183	-0.0672	0.1076	-0.3080	0.4931

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6	142	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	L83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.04	19.76	-0.7325	-0.0449	-0.2604	0.0613	0.3561	-0.0119	-0.0595	0.0558	4.9991	-4.6920
2	6.04	19.77	-0.7199	-0.0460	-0.2587	0.0556	0.3593	0.0133	-0.0596	0.0641	-4.4842	4.8219
3	6.04	19.47	-0.7041	-0.0489	-0.2686	0.0640	0.3515	-0.0243	-0.0579	0.0492	2.3843	-2.0248
4	6.04	18.69	-0.7867	-0.0505	-0.2757	0.0642	0.3505	0.0125	-0.0601	0.0681	-4.8111	5.4452
5	6.03	17.84	-0.8484	-0.0512	-0.2890	0.0603	0.3406	0.0127	-0.0580	0.0648	-4.5661	5.1049
6	6.05	17.05	-0.9783	-0.0546	-0.3425	0.0609	0.3501	-0.0592	-0.0523	0.0380	0.8833	-0.6414
7	6.04	16.25	-0.9580	-0.0593	-0.3488	0.0619	0.3641	0.0289	-0.0531	0.0676	-1.8388	2.3401
8	6.04	15.49	-0.9402	-0.0534	-0.3462	0.0568	0.3682	0.0362	-0.0484	0.0697	-1.3368	1.9271
9	6.04	14.72	-0.8896	-0.0513	-0.3398	0.0576	0.3820	0.0917	-0.0455	0.0797	-0.4966	0.8697
10	6.03	13.94	-0.8496	-0.0533	-0.3251	0.0627	0.3826	0.1588	-0.0435	0.0981	-0.2739	0.6179
11	6.04	13.16	-0.8922	-0.0425	-0.3604	0.0477	0.4039	0.1290	-0.0393	0.0863	-0.3050	0.6689
12	6.02	12.41	-0.8434	-0.0376	-0.3501	0.0446	0.4151	0.1702	-0.0349	0.0971	-0.2053	0.5706
13	6.02	11.63	-0.7944	-0.0346	-0.3335	0.0436	0.4198	0.1692	-0.0319	0.0970	-0.1885	0.5732
14	6.02	10.87	-0.7233	-0.0324	-0.3203	0.0448	0.4428	0.1977	-0.0278	0.1046	-0.1408	0.5290
15	6.01	10.02	-0.6666	-0.0284	-0.3043	0.0427	0.4365	0.2092	-0.0235	0.1087	-0.1126	0.5196
16	6.01	9.27	-0.6122	-0.0260	-0.2886	0.0425	0.4714	0.2335	-0.0190	0.1125	-0.0816	0.4818
17	6.01	8.44	-0.5485	-0.0217	-0.2694	0.0396	0.4911	0.2399	-0.0147	0.1187	-0.0615	0.4949
18	6.00	7.65	-0.4892	-0.0196	-0.2457	0.0401	0.5022	0.2637	-0.0113	0.1230	-0.0428	0.4667
19	6.00	6.86	-0.4167	-0.0188	-0.2217	0.0451	0.5321	0.2789	-0.0069	0.1290	-0.0247	0.4626
20	6.00	6.08	-0.3561	-0.0179	-0.1988	0.0504	0.5581	0.2952	-0.0040	0.1317	-0.0135	0.4460
21	6.00	5.22	-0.2848	-0.0160	-0.1714	0.0563	0.6017	0.3019	0.0009	0.1338	0.0031	0.4431
22	6.00	4.45	-0.2237	-0.0136	-0.1496	0.0610	0.6689	0.3140	0.0038	0.1355	0.0121	0.4316
23	5.99	3.67	-0.1807	-0.0113	-0.1248	0.0628	0.6977	0.3299	0.0056	0.1407	0.0170	0.4265
24	5.99	2.96	-0.1065	-0.0088	-0.1035	0.0826	0.9717	0.3327	0.0069	0.1459	0.0207	0.4384
25	5.98	2.14	-0.0490	-0.0069	-0.0627	0.1408	1.6383	0.3540	0.0076	0.1490	0.0215	0.4208
26	5.98	1.38	0.0056	-0.0058	-0.0568	-1.0355	-10.1489	0.3666	0.0080	0.1505	0.0219	0.4104
27	5.98	0.64	0.0556	-0.0046	-0.0384	-0.0827	-0.6902	0.3833	0.0084	0.1557	0.0219	0.4062
28	5.98	-0.10	0.0855	-0.0032	-0.0136	-0.0380	-0.1592	0.3781	0.0087	0.1596	0.0231	0.4221
29	5.98	-0.94	0.1351	-0.0008	0.0051	-0.0063	0.0379	0.3775	0.0092	0.1594	0.0244	0.4222
30	5.98	-1.70	0.1918	0.0007	0.0265	0.0039	0.1382	0.3901	0.0094	0.1645	0.0241	0.4216
31	5.99	-2.51	0.2437	0.0025	0.0503	0.0105	0.2064	0.4084	0.0095	0.1668	0.0234	0.4084
32	5.99	-3.31	0.2874	0.0046	0.0733	0.0162	0.2550	0.4126	0.0100	0.1689	0.0242	0.4093
33	5.99	-4.15	0.3429	0.0085	0.0990	0.0248	0.2886	0.3950	0.0095	0.1685	0.0242	0.4266
34	5.99	-4.88	0.4006	0.0107	0.1194	0.0267	0.2980	0.3941	0.0099	0.1717	0.0251	0.4357
35	5.99	-5.66	0.4515	0.0139	0.1457	0.0308	0.3226	0.4073	0.0100	0.1726	0.0245	0.4238
36	5.99	-6.44	0.5194	0.0166	0.1715	0.0320	0.3301	0.4077	0.0104	0.1702	0.0255	0.4173
37	6.00	-7.29	0.5798	0.0185	0.1950	0.0320	0.3363	0.3938	0.0106	0.1718	0.0270	0.4363
38	5.99	-8.04	0.6510	0.0204	0.2139	0.0313	0.3280	0.4072	0.0101	0.1726	0.0248	0.4238
39	6.00	-8.85	0.7003	0.0244	0.2361	0.0349	0.3372	0.4062	0.0113	0.1751	0.0279	0.4309
40	6.00	-9.61	0.7625	0.0289	0.2535	0.0380	0.3330	0.4105	0.0116	0.1772	0.0289	0.4316
41	6.00	-10.37	0.8062	0.0311	0.2694	0.0386	0.3342	0.4078	0.0112	0.1705	0.0276	0.4180
42	6.00	-11.15	0.8796	0.0356	0.2894	0.0405	0.3290	0.3978	0.0124	0.1759	0.0312	0.4420
43	6.00	-11.89	0.9290	0.0398	0.3044	0.0428	0.3276	0.4108	0.0130	0.1776	0.0316	0.4323
44	6.01	-12.70	0.9837	0.0449	0.3188	0.0457	0.3241	0.3676	0.0122	0.1724	0.0332	0.4689
45	6.01	-13.46	0.9922	0.0574	0.3017	0.0579	0.3041	0.3713	0.0130	0.1743	0.0351	0.4695
46	6.01	-14.32	1.0044	0.0557	0.2971	0.0554	0.2958	0.3642	0.0130	0.1719	0.0353	0.4668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.42	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	6.01	-15.14	1.0458	0.0574	0.3077	0.0549	0.2742	0.3596	0.0126	0.1696	0.0352	0.4717
48	6.01	-15.95	1.0613	0.0642	0.3105	0.0605	0.2926	0.3676	0.0152	0.1754	0.0360	0.4771
49	6.01	-16.75	1.0945	0.0663	0.3080	0.0606	0.2814	0.3606	0.0125	0.1701	0.0348	0.4716
50	6.01	-17.60	1.0118	0.0590	0.2690	0.0583	0.2658	0.3698	0.0130	0.1727	0.0353	0.4670
51	6.00	-18.44	0.7714	0.0387	0.2019	0.0502	0.2618	0.3773	0.0119	0.1778	0.0317	0.4713
52	5.99	-19.29	0.6521	0.0290	0.1732	0.0445	0.2656	0.3744	0.0112	0.1754	0.0300	0.4683
53	5.98	-20.06	0.6674	0.0292	0.1804	0.0438	0.2703	0.3852	0.0113	0.1723	0.0293	0.4472

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	143	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.01	19.87	1.4946	-3.3333	-3.3984	6.7774	-0.2910	0.0180	-2.2302		
2	9.02	19.49	1.5102	-3.3201	-3.4314	6.7306	-0.3090	0.0	-2.1945		
3	9.02	18.72	1.4722	-3.1729	-3.4060	6.5751	-0.2580	0.0025	-2.1552		
4	9.02	17.93	1.5124	-3.2262	-3.3385	6.5286	-0.2460	-0.0061	-2.1332		
5	9.03	17.08	1.4239	-2.9334	-3.2827	6.6995	-0.1610	-0.0498	-2.0601		
6	9.04	16.34	1.3909	-2.7052	-3.1389	6.7261	-0.0920	-0.0703	-1.9449		
7	9.03	15.52	1.4195	-2.8582	-2.9988	6.4420	-0.0690	-0.0714	-2.0135		
8	9.03	14.80	1.4420	-2.9347	-2.8253	6.1012	-0.0760	-0.0491	-2.0351		
9	9.03	13.97	1.4600	-3.0239	-2.6755	5.8191	-0.0680	-0.0396	-2.0711		
10	9.03	13.23	1.4506	-3.0227	-2.5178	5.6356	-0.0240	-0.0374	-2.0838		
11	9.02	12.45	1.4269	-3.0285	-2.3419	5.3934	0.0050	-0.0212	-2.1224		
12	9.01	11.71	1.4656	-3.1647	-2.1521	5.0407	0.0150	-0.0075	-2.1593		
13	9.01	10.91	1.4680	-3.2441	-2.0507	4.6888	0.0240	0.0056	-2.2098		
14	9.00	10.11	1.4608	-3.3180	-1.8996	4.3371	0.0290	0.0187	-2.2406		
15	9.00	9.29	1.5156	-3.5263	-1.7332	3.9272	0.0330	0.0300	-2.3205		
16	8.99	8.52	1.5054	-3.5594	-1.5447	3.5674	0.0320	0.0309	-2.3644		
17	8.99	7.68	1.5134	-3.6106	-1.3854	3.1234	0.0310	0.0470	-2.3857		
18	8.99	6.93	1.5425	-3.6753	-1.2066	2.7114	0.0220	0.0513	-2.3827		
19	8.98	6.08	1.5280	-3.7370	-1.0679	2.4059	0.0130	0.0587	-2.4457		
20	8.98	5.29	1.5442	-3.8277	-0.8750	1.9569	0.0050	0.0671	-2.4787		
21	8.98	4.47	1.5849	-3.8716	-0.7760	1.6523	0.0030	0.0678	-2.4428		
22	8.98	3.72	1.5931	-3.9591	-0.6284	1.3467	0.0030	0.0728	-2.4852		
23	8.98	2.97	1.5835	-3.9157	-0.4555	1.0817	0.0030	0.0784	-2.4728		
24	8.98	2.20	1.5793	-3.9778	-0.3493	0.8659	0.0090	0.0855	-2.5187		
25	8.97	1.40	1.5849	-3.9866	-0.2016	0.6062	0.0080	0.0889	-2.5154		
26	8.97	0.68	1.5773	-3.9720	-0.1728	0.3719	0.0110	0.0949	-2.5182		
27	8.97	-0.07	1.5983	-4.0254	-0.0211	0.1235	0.0180	0.0959	-2.5185		
28	8.97	-0.86	1.5886	-3.9858	0.0735	-0.1479	0.0170	0.0944	-2.5090		
29	8.97	-1.67	1.5653	-3.9452	0.1555	-0.3597	0.0250	0.0945	-2.5204		
30	8.97	-2.43	1.5700	-3.9018	0.3220	-0.6517	0.0280	0.0826	-2.4852		
31	8.97	-3.30	1.5713	-3.9196	0.4146	-0.8455	0.0240	0.0857	-2.4945		
32	8.98	-4.08	1.5584	-3.8225	0.5828	-1.1899	0.0220	0.0876	-2.4529		
33	8.97	-4.87	1.5171	-3.7947	0.7415	-1.5140	0.0180	0.0844	-2.5013		
34	8.98	-5.59	1.5318	-3.7133	0.8561	-1.8304	0.0160	0.0859	-2.4242		
35	8.98	-6.39	1.5174	-3.6432	1.0229	-2.1589	0.0130	0.0865	-2.4009		
36	8.98	-7.21	1.5115	-3.5959	1.1565	-2.5900	0.0060	0.0830	-2.3790		
37	8.98	-7.97	1.4971	-3.5098	1.2812	-2.9296	0.0060	0.0817	-2.3444		
38	8.99	-8.78	1.4853	-3.4302	1.4508	-3.4279	0.0030	0.0843	-2.3095		
39	8.99	-9.60	1.4932	-3.3913	1.6266	-3.7990	0.0140	0.0756	-2.2712		
40	9.00	-10.35	1.5085	-3.3117	1.7483	-4.1434	0.0250	0.0771	-2.1954		
41	9.00	-11.12	1.5014	-3.2158	1.9212	-4.5745	0.0430	0.0736	-2.1419		
42	8.99	-11.87	1.4909	-3.1491	2.1213	-4.9026	0.0550	0.0596	-2.1122		
43	9.00	-12.64	1.4702	-3.0652	2.2365	-5.2478	0.0640	0.0477	-2.0848		
44	9.00	-13.43	1.4967	-3.1572	2.3818	-5.3992	0.0990	0.0465	-2.1095		
45	9.00	-14.26	1.4561	-3.0224	2.5616	-5.7239	0.0970	0.0416	-2.0757		
46	9.00	-15.11	1.4500	-3.0089	2.6807	-6.1597	0.1350	0.0419	-2.0751		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		143	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	9.00	-15.89	1.4117	-2.8563	2.8774	-6.4881	0.1110	0.0343	-2.0233			
48	9.00	-16.73	1.4217	-2.8823	3.0615	-6.7298	0.1360	0.0442	-2.0273			
49	9.00	-17.54	1.4380	-3.0071	3.1460	-6.5111	0.2140	0.0826	-2.0911			
50	8.98	-18.42	1.5590	-3.5354	3.1131	-6.1441	0.3230	0.1496	-2.2678			
51	8.98	-19.23	1.7039	-3.9662	3.1342	-5.9587	0.4079	0.1668	-2.3278			
52	8.98	-20.03	1.6898	-3.8765	3.2761	-6.2023	0.4339	0.1476	-2.2941			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	143	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.01	19.87	-1.0694	-0.0004	-0.2948	0.0004	0.2756	0.7644	0.0231	0.2694	0.0303	0.3524
2	9.02	19.49	-1.0718	-0.0031	-0.2552	0.0029	0.2754	0.7652	0.0237	0.2723	0.0310	0.3558
3	9.02	18.72	-1.0089	0.0016	-0.2808	-0.0016	0.2783	0.7621	0.0227	0.2687	0.0298	0.3526
4	9.02	17.93	-0.9589	0.0010	-0.2736	-0.0010	0.2854	0.7712	0.0240	0.2718	0.0312	0.3524
5	9.03	17.08	-0.9093	-0.0031	-0.2565	0.0035	0.2821	0.7615	0.0247	0.2681	0.0324	0.3521
6	9.04	16.34	-0.8700	-0.0032	-0.2412	0.0037	0.2773	0.7452	0.0244	0.2611	0.0328	0.3504
7	9.03	15.52	-0.8272	-0.0017	-0.2328	0.0021	0.2814	0.7583	0.0244	0.2644	0.0322	0.3486
8	9.03	14.80	-0.8105	-0.0029	-0.2267	0.0036	0.2797	0.7595	0.0242	0.2647	0.0319	0.3485
9	9.03	13.97	-0.7705	-0.0014	-0.2147	0.0018	0.2787	0.7493	0.0236	0.2624	0.0316	0.3502
10	9.03	13.23	-0.7155	0.0002	-0.2024	-0.0003	0.2829	0.7442	0.0238	0.2631	0.0320	0.3535
11	9.02	12.45	-0.6592	0.0033	-0.1897	-0.0050	0.2877	0.7438	0.0225	0.2612	0.0302	0.3512
12	9.01	11.71	-0.6281	0.0050	-0.1801	-0.0080	0.2867	0.7372	0.0225	0.2580	0.0306	0.3500
13	9.01	10.91	-0.5677	0.0070	-0.1685	-0.0124	0.2975	0.7270	0.0214	0.2548	0.0295	0.3505
14	9.00	10.11	-0.5256	0.0086	-0.1582	-0.0165	0.3011	0.7204	0.0213	0.2553	0.0296	0.3544
15	9.00	9.29	-0.4694	0.0107	-0.1439	-0.0228	0.3066	0.7232	0.0210	0.2565	0.0290	0.3546
16	8.99	8.52	-0.4231	0.0108	-0.1329	-0.0256	0.3141	0.7173	0.0198	0.2531	0.0277	0.3529
17	8.99	7.68	-0.3564	0.0130	-0.1153	-0.0365	0.3234	0.7122	0.0195	0.2515	0.0274	0.3532
18	8.99	6.93	-0.3180	0.0134	-0.1064	-0.0421	0.3345	0.7035	0.0197	0.2489	0.0281	0.3538
19	8.98	6.08	-0.2849	0.0158	-0.0922	-0.0554	0.3237	0.7100	0.0197	0.2496	0.0278	0.3515
20	8.98	5.29	-0.2290	0.0185	-0.0824	-0.0808	0.3599	0.6973	0.0194	0.2452	0.0278	0.3517
21	8.98	4.47	-0.2001	0.0204	-0.0694	-0.1019	0.3467	0.6906	0.0197	0.2423	0.0285	0.3509
22	8.98	3.72	-0.1756	0.0206	-0.0583	-0.1176	0.3321	0.6779	0.0200	0.2381	0.0295	0.3512
23	8.98	2.97	-0.1381	0.0199	-0.0462	-0.1444	0.3347	0.6599	0.0190	0.2319	0.0288	0.3514
24	8.98	2.20	-0.1058	0.0163	-0.0336	-0.1540	0.3181	0.6458	0.0191	0.2263	0.0296	0.3504
25	8.97	1.40	-0.0785	0.0095	-0.0205	-0.1210	0.2606	0.6250	0.0184	0.2208	0.0294	0.3532
26	8.97	0.68	-0.0515	0.0021	-0.0058	-0.0408	0.1119	0.6203	0.0182	0.2162	0.0293	0.3485
27	8.97	-0.07	-0.0105	-0.0054	0.0050	0.5142	-0.4763	0.5935	0.0177	0.2093	0.0298	0.3526
28	8.97	-0.86	0.0082	-0.0119	0.0182	-1.4510	2.2235	0.5765	0.0167	0.2020	0.0290	0.3504
29	8.97	-1.67	0.0346	-0.0192	0.0375	-0.5548	1.0847	0.5645	0.0152	0.1956	0.0269	0.3465
30	8.97	-2.43	0.0620	-0.0245	0.0527	-0.3951	0.8510	0.5406	0.0145	0.1888	0.0269	0.3493
31	8.97	-3.30	0.0957	-0.0251	0.0613	-0.2628	0.6404	0.5239	0.0131	0.1817	0.0251	0.3468
32	8.98	-4.08	0.1291	-0.0258	0.0705	-0.2002	0.5462	0.5077	0.0125	0.1763	0.0247	0.3472
33	8.97	-4.87	0.1496	-0.0252	0.0812	-0.1684	0.5431	0.4891	0.0114	0.1710	0.0234	0.3496
34	8.98	-5.59	0.2050	-0.0230	0.0925	-0.1124	0.4513	0.4719	0.0083	0.1643	0.0177	0.3483
35	8.98	-6.39	0.2206	-0.0222	0.1087	-0.1006	0.4928	0.4562	0.0049	0.1582	0.0108	0.3468
36	8.98	-7.21	0.2627	-0.0207	0.1223	-0.0790	0.4657	0.4357	0.0003	0.1543	0.0008	0.3541
37	8.98	-7.97	0.3143	-0.0200	0.1319	-0.0638	0.4197	0.4210	-0.0038	0.1488	-0.0090	0.3534
38	8.99	-8.78	0.3691	-0.0187	0.1497	-0.0508	0.4055	0.3929	-0.0094	0.1427	-0.0239	0.3632
39	8.99	-9.60	0.4299	-0.0170	0.1624	-0.0395	0.3776	0.3653	-0.0139	0.1357	-0.0382	0.3715
40	9.00	-10.35	0.4723	-0.0145	0.1760	-0.0307	0.3726	0.3339	-0.0180	0.1263	-0.0539	0.3781
41	9.00	-11.12	0.5369	-0.0112	0.1894	-0.0209	0.3528	0.2976	-0.0225	0.1163	-0.0756	0.3907
42	8.99	-11.87	0.5795	-0.0072	0.2031	-0.0124	0.3505	0.2617	-0.0269	0.1048	-0.1030	0.4005
43	9.00	-12.64	0.6272	-0.0036	0.2123	-0.0057	0.3385	0.2292	-0.0313	0.1006	-0.1368	0.4388
44	9.00	-13.43	0.6695	-0.0026	0.2277	-0.0039	0.3401	0.2622	-0.0362	0.1093	-0.1380	0.4171
45	9.00	-14.26	0.7070	-0.0012	0.2381	-0.0017	0.3368	0.2579	-0.0370	0.1122	-0.1434	0.4352
46	9.00	-15.11	0.7772	0.0036	0.2487	0.0047	0.3200	0.2072	-0.0389	0.0948	-0.1877	0.4577

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	143	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	9.00	-15.89	0.8068	0.0045	0.2575	0.0056	0.3192	0.2199	-0.0429	0.1015	-0.1951	0.4615		
48	9.00	-16.73	0.8584	0.0044	0.2705	0.0052	0.3152	0.2249	-0.0482	0.1061	-0.2143	0.4719		
49	9.00	-17.54	0.9037	0.0009	0.2886	0.0011	0.3194	0.2622	-0.0546	0.1190	-0.2084	0.4541		
50	8.98	-18.42	0.9613	-0.0067	0.3092	-0.0070	0.3217	0.3010	-0.0598	0.1320	-0.1987	0.4385		
51	8.98	-19.23	1.0094	-0.0078	0.3207	-0.0078	0.3177	0.2838	-0.0597	0.1263	-0.2102	0.4449		
52	8.98	-20.03	1.0494	-0.0073	0.3323	-0.0070	0.3166	0.2778	-0.0624	0.1258	-0.2245	0.4527		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6	1.43	0.85	1.7	0.0	BZHO12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCPF3	CNF4	CH4	CU4	XCFF4	YCPF4
1	9.01	19.87	-0.6803	-0.0310	-0.2607	0.0456	0.3832	0.3030	-0.0626	0.1676	-0.2067	0.5529
2	9.02	19.49	-0.6801	-0.0319	-0.2646	0.0469	0.3891	0.2601	-0.0606	0.1568	-0.2331	0.6031
3	9.02	18.72	-0.7176	-0.0359	-0.2650	0.0500	0.3693	0.2685	-0.0630	0.1593	-0.2346	0.5935
4	9.02	17.93	-0.7733	-0.0528	-0.2791	0.0603	0.3609	0.2144	-0.0649	0.1420	-0.3029	0.6625
5	9.03	17.08	-0.9435	-0.0593	-0.3291	0.0628	0.3488	0.1822	-0.0576	0.1318	-0.3157	0.7197
6	9.04	16.34	-0.9771	-0.0600	-0.3592	0.0614	0.3676	0.2132	-0.0517	0.1301	-0.2425	0.6164
7	9.03	15.52	-0.9636	-0.0568	-0.3584	0.0590	0.3719	0.2192	-0.0458	0.1364	-0.2091	0.6224
8	9.03	14.80	-0.9118	-0.0526	-0.3551	0.0577	0.3895	0.2113	-0.0440	0.1292	-0.2082	0.6115
9	9.03	13.97	-0.8610	-0.0527	-0.3401	0.0612	0.3950	0.2257	-0.0403	0.1381	-0.1787	0.6119
10	9.03	13.23	-0.8979	-0.0512	-0.3598	0.0571	0.4007	0.2382	-0.0344	0.1365	-0.1446	0.5733
11	9.02	12.45	-0.8498	-0.0405	-0.3610	0.0477	0.4247	0.2750	-0.0287	0.1446	-0.1045	0.5259
12	9.01	11.71	-0.7858	-0.0380	-0.3466	0.0484	0.4404	0.2994	-0.0258	0.1492	-0.0863	0.4982
13	9.01	10.91	-0.7329	-0.0348	-0.3291	0.0475	0.4490	0.3331	-0.0222	0.1537	-0.0666	0.4614
14	9.00	10.11	-0.6752	-0.0306	-0.3149	0.0454	0.4663	0.3491	-0.0192	0.1597	-0.0551	0.4575
15	9.00	9.29	-0.6178	-0.0276	-0.2561	0.0447	0.4794	0.3767	-0.0147	0.1668	-0.0390	0.4428
16	8.99	8.52	-0.5484	-0.0236	-0.2799	0.0431	0.5104	0.3793	-0.0106	0.1704	-0.0279	0.4492
17	8.99	7.68	-0.4727	-0.0218	-0.2544	0.0461	0.5382	0.4042	-0.0041	0.1756	-0.0101	0.4344
18	8.99	6.93	-0.4024	-0.0206	-0.2322	0.0512	0.5769	0.4247	-0.0001	0.1769	-0.0004	0.4165
19	8.98	6.08	-0.3473	-0.0195	-0.2060	0.0503	0.5931	0.4447	0.0031	0.1816	0.0071	0.4083
20	8.98	5.29	-0.2839	-0.0167	-0.1765	0.0590	0.6266	0.4559	0.0065	0.1857	0.0143	0.4073
21	8.98	4.47	-0.2149	-0.0142	-0.1540	0.0661	0.7166	0.4660	0.0091	0.1946	0.0196	0.4175
22	8.98	3.72	-0.1653	-0.0115	-0.1330	0.0696	0.8045	0.4821	0.0103	0.2006	0.0215	0.4162
23	8.98	2.97	-0.1006	-0.0085	-0.1080	0.0845	1.0738	0.5077	0.0109	0.2030	0.0215	0.3998
24	8.98	2.20	-0.0475	-0.0069	-0.0865	0.1452	1.8216	0.5187	0.0119	0.2119	0.0230	0.4086
25	8.97	1.40	0.0078	-0.0058	-0.0614	-0.1499	-7.8719	0.5355	0.0127	0.2154	0.0238	0.4023
26	8.97	0.68	0.0575	-0.0046	-0.0415	-0.0800	-0.7294	0.5557	0.0138	0.2208	0.0248	0.3973
27	8.97	-0.07	0.1050	-0.0036	-0.0183	-0.0343	-0.1744	0.5769	0.0150	0.2264	0.0260	0.3925
28	8.97	-0.86	0.1480	-0.0005	0.0002	-0.0037	0.0420	0.5755	0.0151	0.2322	0.0262	0.4034
29	8.97	-1.67	0.2140	0.0006	0.0258	0.0030	0.1206	0.5970	0.0161	0.2343	0.0270	0.3925
30	8.97	-2.43	0.2664	0.0025	0.0475	0.0094	0.1797	0.6005	0.0161	0.2367	0.0268	0.3975
31	8.97	-3.30	0.3006	0.0054	0.0736	0.0180	0.2448	0.6050	0.0153	0.2415	0.0254	0.3992
32	8.98	-4.08	0.3700	0.0098	0.0567	0.0266	0.2613	0.6213	0.0165	0.2440	0.0266	0.3928
33	8.97	-4.87	0.4229	0.0126	0.1195	0.0298	0.2826	0.6253	0.0171	0.2478	0.0274	0.3964
34	8.98	-5.59	0.4742	0.0153	0.1438	0.0323	0.3033	0.6159	0.0168	0.2478	0.0273	0.4024
35	8.98	-6.39	0.5482	0.0179	0.1689	0.0327	0.3080	0.6302	0.0174	0.2501	0.0276	0.3968
36	8.98	-7.21	0.5987	0.0202	0.1960	0.0337	0.3274	0.6263	0.0170	0.2482	0.0272	0.3963
37	8.98	-7.97	0.6648	0.0230	0.2191	0.0346	0.3296	0.6352	0.0165	0.2521	0.0260	0.3970
38	8.99	-8.78	0.7322	0.0282	0.2412	0.0386	0.3294	0.6223	0.0174	0.2498	0.0280	0.4015
39	8.99	-9.60	0.7944	0.0316	0.2601	0.0398	0.3274	0.6359	0.0187	0.2528	0.0294	0.3975
40	9.00	-10.35	0.8458	0.0343	0.2780	0.0406	0.3287	0.6446	0.0187	0.2542	0.0290	0.3943
41	9.00	-11.12	0.9095	0.0371	0.2972	0.0408	0.3267	0.6394	0.0191	0.2563	0.0299	0.4009
42	8.99	-11.87	0.9691	0.0410	0.3084	0.0423	0.3183	0.6437	0.0203	0.2551	0.0315	0.3963
43	9.00	-12.64	1.0145	0.0443	0.3222	0.0437	0.3175	0.6389	0.0203	0.2565	0.0318	0.4014
44	9.00	-13.43	0.9859	0.0602	0.2575	0.0610	0.3022	0.6306	0.0198	0.2560	0.0315	0.4060
45	9.00	-14.26	1.0389	0.0570	0.3031	0.0548	0.2917	0.6347	0.0197	0.2532	0.0310	0.3989
46	9.00	-15.11	1.0798	0.0575	0.3159	0.0533	0.2926	0.6427	0.0201	0.2570	0.0313	0.4000

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		143	0.85	1.7		0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	9.00	-15.84	1.1159	0.0630	0.3239	0.0565	0.2903	0.6467	0.0199	0.2588	0.0308	0.4002	
48	9.00	-16.73	1.1377	0.0664	0.3183	0.0584	0.2798	0.6375	0.0209	0.2593	0.0328	0.4068	
49	9.00	-17.54	0.9723	0.0578	0.2576	0.0594	0.2649	0.6207	0.0197	0.2557	0.0317	0.4120	
50	8.98	-18.42	0.7961	0.0363	0.2087	0.0456	0.2621	0.6475	0.0173	0.2613	0.0268	0.4036	
51	8.98	-19.23	0.6909	0.0286	0.1854	0.0414	0.2684	0.6531	0.0179	0.2595	0.0274	0.3974	
52	8.98	-20.03	0.7056	0.0286	0.1925	0.0405	0.2728	0.6457	0.0173	0.2577	0.0268	0.3992	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	144	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP	
1	12.07	19.86	2.1637	-4.4530	-3.4742	6.5107	-0.3140	0.0000	-2.0580	
2	12.07	19.49	2.1293	-4.4249	-3.4808	6.4260	-0.3040	0.0010	-2.0781	
3	12.07	18.72	2.1595	-4.3951	-3.3723	6.2480	-0.2880	-0.0078	-2.0352	
4	12.08	17.91	2.2243	-4.3949	-3.2752	6.0560	-0.2680	-0.0092	-1.9758	
5	12.08	17.06	2.1469	-4.2075	-3.2038	6.1601	-0.1680	-0.0463	-1.9598	
6	12.08	16.30	2.0329	-3.9330	-3.1694	6.3299	-0.0770	-0.0678	-1.9346	
7	12.07	15.50	2.0175	-3.9944	-2.9900	6.0738	-0.0690	-0.0613	-1.9798	
8	12.07	14.76	2.0122	-4.0620	-2.8522	5.7829	-0.0450	-0.0430	-2.0186	
9	12.06	13.93	2.0583	-4.3015	-2.6741	5.4066	-0.0110	-0.0338	-2.0898	
10	12.06	13.18	2.0405	-4.3645	-2.5228	5.2776	0.0160	-0.0335	-2.1389	
11	12.05	12.41	2.0214	-4.3988	-2.4294	5.1689	0.0690	-0.0272	-2.1761	
12	12.05	11.67	2.0502	-4.4851	-2.2570	4.7906	0.0680	-0.0140	-2.1876	
13	12.05	10.86	2.0802	-4.5871	-2.0341	4.3846	0.0650	0.0	-2.2051	
14	12.04	10.07	2.1141	-4.7535	-1.8349	3.9556	0.0510	0.0100	-2.2465	
15	12.04	9.25	2.1095	-4.7921	-1.6826	3.6204	0.0640	0.0174	-2.2716	
16	12.03	8.46	2.1264	-4.9047	-1.5075	3.2159	0.0610	0.0227	-2.3066	
17	12.03	7.62	2.1677	-5.0675	-1.3495	2.7692	0.0620	0.0310	-2.3377	
18	12.02	6.87	2.1477	-5.1465	-1.2080	2.5101	0.0480	0.0329	-2.3963	
19	12.02	6.04	2.1808	-5.2319	-0.9572	2.0560	0.0320	0.0359	-2.3990	
20	12.02	5.24	2.2027	-5.3295	-0.8514	1.7049	0.0300	0.0371	-2.4195	
21	12.00	4.40	2.1759	-5.3400	-0.7535	1.3869	0.0160	0.0440	-2.4541	
22	12.01	3.67	2.1964	-5.3497	-0.5696	1.0854	0.0090	0.0479	-2.4356	
23	12.00	2.91	2.1971	-5.4017	-0.4567	0.8024	0.0120	0.0500	-2.4585	
24	12.00	2.13	2.2148	-5.4274	-0.3837	0.6352	0.0130	0.0556	-2.4505	
25	12.00	1.33	2.2226	-5.4763	-0.2657	0.4759	0.0190	0.0603	-2.4639	
26	11.99	0.62	2.2273	-5.5439	-0.1737	0.3281	0.0210	0.0700	-2.4891	
27	12.00	-0.15	2.2280	-5.5489	-0.0672	0.1651	0.0290	0.0769	-2.4905	
28	12.00	-0.94	2.2255	-5.5334	0.0600	-0.0300	0.0320	0.0772	-2.4864	
29	12.01	-1.76	2.2559	-5.4990	0.1135	-0.1769	0.0330	0.0807	-2.4576	
30	12.00	-2.54	2.2492	-5.3426	0.2742	-0.4558	0.0400	0.0764	-2.4642	
31	12.00	-3.37	2.2148	-5.4734	0.4040	-0.6177	0.0260	0.0769	-2.4713	
32	12.00	-4.16	2.2096	-5.4062	0.5305	-0.9397	0.0240	0.0725	-2.4467	
33	11.99	-4.93	2.2166	-5.4219	0.6494	-1.2351	0.0010	0.0726	-2.4461	
34	12.00	-5.67	2.1654	-5.2483	0.8307	-1.6149	-0.0120	0.0732	-2.4237	
35	12.00	-6.49	2.1292	-5.0686	1.0021	-1.9838	-0.0220	0.0668	-2.3805	
36	12.00	-7.28	2.0595	-4.9811	1.1561	-2.3145	-0.0150	0.0610	-2.3725	
37	12.01	-8.11	2.1131	-4.9021	1.2630	-2.7221	-0.0170	0.0518	-2.3198	
38	12.02	-8.85	2.0802	-4.7191	1.4630	-3.0741	-0.0210	0.0415	-2.2685	
39	12.01	-9.66	2.0677	-4.7256	1.6562	-3.5015	-0.0220	0.0384	-2.2854	
40	12.02	-10.42	2.0482	-4.6423	1.8112	-3.8584	-0.0190	0.0407	-2.2665	
41	12.02	-11.22	2.0151	-4.4930	2.0058	-4.3000	-0.0320	0.0430	-2.2296	
42	12.03	-11.95	2.0380	-4.3910	2.1535	-4.6107	0.0100	0.0471	-2.1545	
43	12.04	-12.76	2.0587	-4.2190	2.2953	-4.9302	0.0360	0.0434	-2.0493	
44	12.04	-13.52	2.1226	-4.3685	2.3662	-4.9504	0.1120	0.0579	-2.0581	
45	12.06	-14.40	2.1864	-4.3128	2.5630	-5.3529	0.1800	0.0531	-1.9726	
46	12.06	-15.23	2.1767	-4.2932	2.6894	-5.7830	0.1940	0.0292	-1.9723	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	144	0.85	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	12.06	-16.05	2.1067	-4.1063	2.8388	-6.1121	0.1730	0.0186	-1.9491		
48	12.04	-16.84	2.0235	-4.1798	3.0376	-6.3304	0.1740	0.0366	-2.0656		
49	12.03	-17.70	2.1554	-4.6694	3.0550	-5.8118	0.2840	0.0895	-2.1663		
50	12.03	-18.55	2.1542	-4.6747	3.1216	-5.9440	0.3530	0.1036	-2.1700		
51	12.03	-19.42	2.1491	-4.6246	3.2597	-6.2453	0.3680	0.1034	-2.1518		
52	12.03	-20.17	2.2700	-5.0228	3.2633	-5.8894	0.4599	0.1158	-2.2127		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION			
6	144	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	12.07	19.86	-0.8938	0.0214	-0.2768	-0.0239	0.3097	0.9939	0.0306	0.3425	0.0308	0.3446	
2	12.07	19.49	-0.8938	0.0187	-0.2791	-0.0209	0.3123	0.9972	0.0317	0.3423	0.0318	0.3432	
3	12.07	18.72	-0.8618	0.0193	-0.2716	-0.0224	0.3151	0.9912	0.0314	0.3405	0.0317	0.3435	
4	12.08	17.91	-0.8411	0.0199	-0.2615	-0.0237	0.3109	0.9977	0.0333	0.3413	0.0334	0.3420	
5	12.08	17.06	-0.7739	0.0191	-0.2458	-0.0247	0.3175	0.9887	0.0340	0.3343	0.0344	0.3381	
6	12.08	16.30	-0.7115	0.0199	-0.2263	-0.0280	0.3180	0.9790	0.0329	0.3322	0.0336	0.3393	
7	12.07	15.50	-0.6903	0.0177	-0.2239	-0.0256	0.3244	0.9737	0.0337	0.3321	0.0346	0.3410	
8	12.07	14.76	-0.6258	0.0202	-0.2126	-0.0323	0.3398	0.9559	0.0331	0.3273	0.0346	0.3424	
9	12.06	13.93	-0.5705	0.0220	-0.1984	-0.0385	0.3478	0.9653	0.0331	0.3287	0.0343	0.3405	
10	12.06	13.18	-0.5358	0.0225	-0.1886	-0.0420	0.3521	0.9551	0.0320	0.3267	0.0335	0.3420	
11	12.05	12.41	-0.4763	0.0239	-0.1692	-0.0502	0.3553	0.9513	0.0317	0.3254	0.0334	0.3420	
12	12.05	11.67	-0.4336	0.0234	-0.1607	-0.0541	0.3706	0.9371	0.0305	0.3241	0.0326	0.3458	
13	12.05	10.86	-0.3776	0.0235	-0.1487	-0.0623	0.3938	0.9412	0.0306	0.3243	0.0325	0.3446	
14	12.04	10.07	-0.3646	0.0223	-0.1435	-0.0611	0.3935	0.9423	0.0309	0.3222	0.0328	0.3419	
15	12.04	9.25	-0.3068	0.0247	-0.1231	-0.0806	0.4013	0.9214	0.0289	0.3193	0.0314	0.3466	
16	12.03	8.46	-0.2638	0.0270	-0.1114	-0.1023	0.4223	0.9167	0.0292	0.3166	0.0318	0.3453	
17	12.03	7.62	-0.2131	0.0298	-0.0995	-0.1401	0.4670	0.9135	0.0290	0.3160	0.0317	0.3459	
18	12.02	6.87	-0.1797	0.0314	-0.0904	-0.1747	0.5029	0.8982	0.0273	0.3134	0.0304	0.3489	
19	12.02	6.04	-0.1505	0.0340	-0.0790	-0.2262	0.5252	0.8928	0.0285	0.3100	0.0319	0.3472	
20	12.02	5.24	-0.0916	0.0380	-0.0628	-0.4153	0.6858	0.8909	0.0270	0.3077	0.0304	0.3453	
21	12.00	4.40	-0.0696	0.0400	-0.0615	-0.5746	0.8835	0.8766	0.0279	0.3025	0.0318	0.3451	
22	12.01	3.67	-0.0495	0.0393	-0.0522	-0.7938	1.0544	0.8569	0.0276	0.2983	0.0322	0.3481	
23	12.00	2.91	-0.0169	0.0350	-0.0429	-2.0736	2.5403	0.8432	0.0266	0.2935	0.0316	0.3480	
24	12.00	2.13	-0.0027	0.0277	-0.0315	-10.2574	11.6665	0.8206	0.0256	0.2859	0.0312	0.3484	
25	12.00	1.33	0.0007	0.0141	-0.0149	20.1393	-21.2382	0.7998	0.0242	0.2798	0.0303	0.3498	
26	11.99	0.62	0.0022	0.0045	-0.0080	2.0678	-3.6213	0.7872	0.0244	0.2770	0.0310	0.3519	
27	12.00	-0.15	0.0197	-0.0074	0.0063	-0.3781	0.3180	0.7622	0.0222	0.2678	0.0291	0.3513	
28	12.00	-0.94	0.0375	-0.0191	0.0203	-0.5092	0.5412	0.7396	0.0208	0.2608	0.0281	0.3527	
29	12.01	-1.76	0.0337	-0.0315	0.0307	-0.9346	0.9118	0.7176	0.0206	0.2523	0.0287	0.3516	
30	12.00	-2.54	0.0558	-0.0405	0.0456	-0.7257	0.8171	0.6875	0.0190	0.2433	0.0277	0.3539	
31	12.00	-3.37	0.0495	-0.0455	0.0508	-0.9200	1.0261	0.6641	0.0180	0.2339	0.0271	0.3522	
32	12.00	-4.16	0.0698	-0.0467	0.0591	-0.6689	0.8475	0.6453	0.0168	0.2277	0.0260	0.3529	
33	11.99	-4.93	0.0745	-0.0450	0.0586	-0.6046	0.7869	0.6346	0.0161	0.2230	0.0254	0.3513	
34	12.00	-5.67	0.1260	-0.0382	0.0702	-0.3035	0.5570	0.6195	0.0146	0.2157	0.0236	0.3482	
35	12.00	-6.49	0.1690	-0.0361	0.0760	-0.2136	0.4498	0.5972	0.0125	0.2108	0.0210	0.3530	
36	12.00	-7.28	0.2101	-0.0368	0.0942	-0.1656	0.4484	0.5717	0.0081	0.2025	0.0142	0.3542	
37	12.01	-8.11	0.2438	-0.0316	0.1082	-0.1298	0.4440	0.5432	0.0030	0.1962	0.0055	0.3612	
38	12.02	-8.85	0.2064	-0.0311	0.1197	-0.1087	0.4180	0.5274	-0.0019	0.1929	-0.0037	0.3658	
39	12.01	-9.66	0.2242	-0.0302	0.1348	-0.0931	0.4159	0.5099	-0.0070	0.1885	-0.0137	0.3697	
40	12.02	-10.42	0.3583	-0.0310	0.1443	-0.0866	0.4027	0.5081	-0.0099	0.1877	-0.0195	0.3694	
41	12.02	-11.22	0.3968	-0.0304	0.1531	-0.0767	0.3859	0.4836	-0.0151	0.1807	-0.0312	0.3737	
42	12.03	-11.95	0.4689	-0.0278	0.1725	-0.0593	0.3680	0.4214	-0.0227	0.1670	-0.0538	0.3963	
43	12.04	-12.76	0.5284	-0.0247	0.1889	-0.0467	0.3574	0.3792	-0.0282	0.1540	-0.0743	0.4060	
44	12.04	-13.52	0.5793	-0.0237	0.2022	-0.0409	0.3491	0.3436	-0.0322	0.1483	-0.0938	0.4316	
45	12.06	-14.40	0.6787	-0.0159	0.2216	-0.0234	0.3266	0.2540	-0.0357	0.1179	-0.1405	0.4643	
46	12.06	-15.23	0.7479	-0.0083	0.2368	-0.0111	0.3166	0.2453	-0.0376	0.1125	-0.1533	0.4588	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION
6		144	0.85	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	12.06	-16.05	0.7667	-0.0095	0.2464	-0.0124	0.3213	0.2768	-0.0420	0.1310	-0.1517	0.4733	
48	12.04	-16.84	0.8042	-0.0136	0.2551	-0.0169	0.3172	0.3197	-0.0481	0.1479	-0.1505	0.4627	
49	12.03	-17.70	0.8487	-0.0213	0.2700	-0.0251	0.3181	0.3851	-0.0565	0.1721	-0.1467	0.4469	
50	12.03	-18.55	0.9031	-0.0215	0.2868	-0.0238	0.3176	0.3700	-0.0583	0.1645	-0.1576	0.4445	
51	12.03	-19.42	0.9428	-0.0238	0.2986	-0.0252	0.3167	0.3800	-0.0605	0.1707	-0.1593	0.4492	
52	12.03	-20.17	0.9909	-0.0207	0.3113	-0.0209	0.3141	0.3297	-0.0594	0.1534	-0.1801	0.4651	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		144		0.85		1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	12.07	19.86	-0.7476	-0.0297	-0.2660	0.0397	0.3558	0.4091	-0.0693	0.1913	-0.1473	0.4676		
2	12.07	19.49	-0.7628	-0.0321	-0.2716	0.0421	0.3560	0.3704	-0.0530	0.1814	-0.1594	0.4898		
3	12.07	18.72	-0.7746	-0.0381	-0.2723	0.0442	0.3514	0.3836	-0.0581	0.1769	-0.1514	0.4612		
4	12.08	17.91	-0.8289	-0.0538	-0.2769	0.0649	0.3341	0.3102	-0.0594	0.1640	-0.1916	0.5285		
5	12.08	17.06	-0.9441	-0.0547	-0.3149	0.0633	0.3335	0.3407	-0.0568	0.1659	-0.1668	0.4870		
6	12.08	16.30	-1.0349	-0.0607	-0.3558	0.0586	0.3438	0.3550	-0.0496	0.1743	-0.1398	0.4909		
7	12.07	15.50	-1.0170	-0.0561	-0.3630	0.0551	0.3569	0.3245	-0.0449	0.1642	-0.1383	0.5060		
8	12.07	14.76	-0.9782	-0.0549	-0.3545	0.0561	0.3623	0.3703	-0.0382	0.1738	-0.1032	0.4693		
9	12.06	13.93	-0.9509	-0.0582	-0.3417	0.0612	0.3593	0.4255	-0.0347	0.1838	-0.0616	0.4319		
10	12.06	13.18	-0.9416	-0.0556	-0.3541	0.0591	0.3760	0.4453	-0.0320	0.1882	-0.0718	0.4226		
11	12.05	12.41	-0.9105	-0.0431	-0.3602	0.0474	0.3956	0.4906	-0.0251	0.1940	-0.0512	0.3954		
12	12.05	11.67	-0.8514	-0.0401	-0.3472	0.0471	0.4078	0.5017	-0.0205	0.1971	-0.0409	0.3928		
13	12.05	10.86	-0.7883	-0.0357	-0.3299	0.0453	0.4186	0.5204	-0.0163	0.2020	-0.0314	0.3882		
14	12.04	10.07	-0.7383	-0.0321	-0.3129	0.0435	0.4238	0.5194	-0.0138	0.1974	-0.0266	0.3800		
15	12.04	9.25	-0.6619	-0.0285	-0.2952	0.0431	0.4461	0.5556	-0.0061	0.2071	-0.0110	0.3728		
16	12.03	8.46	-0.5984	-0.0266	-0.2723	0.0445	0.4550	0.5645	-0.0008	0.2105	-0.0014	0.3729		
17	12.03	7.62	-0.5167	-0.0236	-0.2484	0.0458	0.4816	0.5919	0.0048	0.2174	0.0081	0.3673		
18	12.02	6.87	-0.4620	-0.0222	-0.2239	0.0481	0.4847	0.6038	0.0081	0.2209	0.0134	0.3658		
19	12.02	6.04	-0.3647	-0.0213	-0.1987	0.0585	0.5448	0.6194	0.0111	0.2228	0.0180	0.3597		
20	12.02	5.24	-0.3167	-0.0196	-0.1683	0.0619	0.5314	0.6404	0.0141	0.2260	0.0220	0.3529		
21	12.00	4.40	-0.2435	-0.0162	-0.1446	0.0665	0.5940	0.6479	0.0155	0.2298	0.0240	0.3547		
22	12.01	3.67	-0.1775	-0.0130	-0.1232	0.0735	0.6943	0.6595	0.0171	0.2338	0.0259	0.3546		
23	12.00	2.91	-0.1349	-0.0096	-0.0979	0.0712	0.7261	0.6894	0.0197	0.2428	0.0286	0.3522		
24	12.00	2.13	-0.0824	-0.0077	-0.0758	0.0940	0.9206	0.7149	0.0202	0.2513	0.0282	0.3515		
25	12.00	1.33	-0.0189	-0.0058	-0.0502	0.3095	2.6560	0.7451	0.0295	0.2618	0.0275	0.3513		
26	11.99	0.62	0.0266	-0.0040	-0.0304	-0.1522	-1.1442	0.7716	0.0208	0.2700	0.0269	0.3499		
27	12.00	-0.15	0.0746	-0.0024	-0.0075	-0.0322	-0.1011	0.8055	0.0212	0.2779	0.0263	0.3450		
28	12.00	-0.94	0.1133	-0.0009	0.0160	-0.0084	0.1408	0.8124	0.0211	0.2848	0.0260	0.3506		
29	12.01	-1.76	0.1777	-0.0001	0.0382	-0.0006	0.2150	0.8467	0.0221	0.2894	0.0261	0.3418		
30	12.00	-2.54	0.2281	0.0026	0.0624	0.0114	0.2736	0.8676	0.0232	0.2955	0.0267	0.3406		
31	12.00	-3.37	0.2893	0.0058	0.0902	0.0202	0.3118	0.8778	0.0231	0.2987	0.0263	0.3403		
32	12.00	-4.16	0.3452	0.0042	0.1135	0.0268	0.3300	0.8905	0.0237	0.3004	0.0266	0.3374		
33	11.99	-4.93	0.4000	0.0130	0.1402	0.0326	0.3505	0.9033	0.0233	0.3036	0.0258	0.3361		
34	12.00	-5.67	0.4726	0.0168	0.1645	0.0355	0.3480	0.8993	0.0232	0.3018	0.0258	0.3355		
35	12.00	-6.49	0.5357	0.0199	0.1907	0.0371	0.3560	0.8991	0.0248	0.3001	0.0276	0.3338		
36	12.00	-7.28	0.6055	0.0210	0.2124	0.0348	0.3507	0.8903	0.0255	0.3032	0.0287	0.3405		
37	12.01	-8.11	0.6665	0.0247	0.2388	0.0370	0.3503	0.9008	0.0276	0.3029	0.0306	0.3362		
38	12.02	-8.95	0.7190	0.0286	0.2581	0.0398	0.3589	0.8943	0.0277	0.3022	0.0310	0.3379		
39	12.01	-9.66	0.7952	0.0330	0.2744	0.0415	0.3450	0.9044	0.0278	0.3042	0.0308	0.3363		
40	12.02	-10.42	0.8601	0.0374	0.2946	0.0435	0.3425	0.9059	0.0284	0.3047	0.0313	0.3363		
41	12.02	-11.22	0.9144	0.0431	0.3099	0.0472	0.3389	0.9062	0.0289	0.3049	0.0319	0.3364		
42	12.03	-11.95	0.9707	0.0447	0.3257	0.0460	0.3355	0.9140	0.0296	0.3088	0.0324	0.3378		
43	12.04	-12.76	1.0158	0.0523	0.3343	0.0515	0.3291	0.9142	0.0307	0.3062	0.0336	0.3350		
44	12.04	-13.52	0.9968	0.0589	0.3173	0.0591	0.3183	0.9400	0.0308	0.3112	0.0328	0.3311		
45	12.06	-14.40	1.0289	0.0541	0.3262	0.0526	0.3170	0.9433	0.0328	0.3131	0.0348	0.3319		
46	12.06	-15.23	1.0731	0.0556	0.3408	0.0518	0.3176	0.9563	0.0344	0.3125	0.0360	0.3267		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		144	0.85	1.7	0.0	B2M0F12	0.0	0	0	0	0	U	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	12.06	-16.05	1.1108	0.0615	0.3412	0.0554	0.3072	0.9343	0.0319	0.3064	0.0341	0.3280	
48	12.04	-16.84	1.1086	0.0652	0.3225	0.0588	0.2909	0.9378	0.0320	0.3107	0.0341	0.3313	
49	12.03	-17.70	0.8862	0.0569	0.2492	0.0640	0.2805	0.9549	0.0293	0.3190	0.0307	0.3341	
50	12.03	-18.55	0.8026	0.0361	0.2350	0.0450	0.2929	0.9463	0.0285	0.3184	0.0302	0.3365	
51	12.03	-19.42	0.7657	0.0288	0.2320	0.0376	0.3031	0.9446	0.0278	0.3182	0.0294	0.3368	
52	12.03	-20.17	0.6960	0.0272	0.2115	0.0391	0.3039	0.9593	0.0282	0.3177	0.0294	0.3311	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	145	0.85	1.7	0.0	82WOF12	0.0	0	0	0	U FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.11	19.88	2.5784	-5.1385	-3.6448	6.5276	-0.2220	0.0170	-1.9929	
2	15.11	19.49	2.5909	-5.0460	-3.7088	6.5352	-0.2050	0.0100	-1.9476	
3	15.11	18.76	2.7007	-5.2968	-3.4699	6.0908	-0.2250	0.0106	-1.9613	
4	15.12	17.91	2.7657	-5.3788	-3.3367	5.8542	-0.1930	0.0049	-1.9448	
5	15.12	17.08	2.6980	-5.2621	-3.2063	5.6456	-0.1270	-0.0094	-1.9503	
6	15.12	16.27	2.5995	-4.9001	-3.2462	5.9875	0.0280	-0.0415	-1.8850	
7	15.11	15.51	2.4940	-4.9024	-3.1404	6.0303	0.0790	-0.0518	-1.9657	
8	15.09	14.72	2.4729	-5.0808	-3.0312	5.8325	0.1300	-0.0366	-2.0546	
9	15.09	13.95	2.5465	-5.3508	-2.8204	5.5664	0.1560	-0.0266	-2.1013	
10	15.09	13.15	2.5900	-5.3797	-2.5760	5.1881	0.1580	-0.0342	-2.0771	
11	15.10	12.42	2.6224	-5.4261	-2.4056	4.9972	0.1710	-0.0278	-2.0692	
12	15.10	11.62	2.6538	-5.5040	-2.2630	4.5910	0.1590	-0.0163	-2.0740	
13	15.09	10.83	2.6806	-5.6337	-2.1489	4.2313	0.1540	-0.0085	-2.1016	
14	15.08	10.00	2.6592	-5.7525	-1.9506	3.9237	0.1820	0.0026	-2.1633	
15	15.07	9.21	2.6786	-5.9398	-1.8059	3.6191	0.2050	0.0108	-2.2175	
16	15.07	8.39	2.6930	-6.0240	-1.5886	3.2399	0.1890	0.0148	-2.2309	
17	15.07	7.59	2.7431	-6.1651	-1.4325	2.8416	0.1810	0.0190	-2.2475	
18	15.07	6.78	2.7870	-6.2845	-1.2478	2.3789	0.1820	0.0224	-2.2549	
19	15.07	6.01	2.8083	-6.3363	-1.0310	2.0627	0.1280	0.0281	-2.2563	
20	15.06	5.16	2.7809	-6.3800	-0.8588	1.6642	0.1090	0.0384	-2.2442	
21	15.05	4.37	2.7883	-6.4033	-0.7327	1.3027	0.1030	0.0412	-2.2465	
22	15.05	3.58	2.7801	-6.4389	-0.5886	1.0360	0.0960	0.0372	-2.3160	
23	15.04	2.85	2.8682	-6.8231	-0.5120	0.6809	0.0780	0.0324	-2.3789	
24	15.03	2.03	2.8905	-6.8924	-0.4018	0.5286	0.0660	0.0318	-2.3845	
25	15.03	1.28	2.8688	-6.9190	-0.2575	0.4824	0.0430	0.0410	-2.4118	
26	15.03	0.52	2.8668	-6.9042	-0.2013	0.3258	0.0360	0.0428	-2.4083	
27	15.03	-0.22	2.8663	-6.8995	-0.0865	0.1931	0.0400	0.0466	-2.4071	
28	15.03	-1.04	2.8752	-6.9119	0.0122	0.0299	0.0470	0.0423	-2.4040	
29	15.04	-1.84	2.8256	-6.6655	0.1176	-0.2056	0.0300	0.0428	-2.3590	
30	15.03	-2.66	2.8182	-6.5212	0.2717	-0.3573	-0.0110	0.0449	-2.3139	
31	15.02	-3.47	2.7961	-6.5562	0.4294	-0.6632	-0.0290	0.0480	-2.3448	
32	15.02	-4.29	2.7922	-6.5488	0.5447	-0.8956	-0.0520	0.0547	-2.3434	
33	15.03	-5.03	2.7643	-6.3777	0.6988	-1.2773	-0.0940	0.0560	-2.3071	
34	15.03	-5.83	2.7472	-6.2898	0.8625	-1.5844	-0.1040	0.0478	-2.2895	
35	15.03	-6.60	2.7089	-6.1772	1.0537	-1.9871	-0.1460	0.0526	-2.2803	
36	15.04	-7.42	2.6819	-6.0584	1.2486	-2.3470	-0.1440	0.0459	-2.2590	
37	15.04	-8.19	2.6477	-5.9004	1.4024	-2.6963	-0.1460	0.0494	-2.2285	
38	15.05	-9.00	2.6711	-5.8232	1.5413	-3.0527	-0.1070	0.0433	-2.1801	
39	15.06	-9.78	2.6582	-5.6552	1.6829	-3.4689	-0.0860	0.0429	-2.1275	
40	15.06	-10.61	2.6548	-5.6174	1.8325	-3.9633	-0.0910	0.0287	-2.1160	
41	15.06	-11.34	2.6582	-5.5732	1.9773	-4.1711	-0.0720	0.0315	-2.0966	
42	15.06	-12.13	2.5812	-5.4634	2.2104	-4.5594	-0.0810	0.0302	-2.1166	
43	15.06	-12.91	2.5920	-5.4145	2.2708	-4.7454	-0.0550	0.0286	-2.0890	
44	15.07	-13.73	2.6105	-5.3374	2.4443	-5.0308	-0.0360	0.0268	-2.0446	
45	15.08	-14.55	2.5777	-5.0625	2.6704	-5.3553	-0.0110	0.0229	-1.9640	
46	15.09	-15.42	2.5557	-4.8568	2.8841	-5.6436	0.0080	0.0128	-1.9004	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	145	D.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	15.08	-16.20	2.5407	-4.9298	3.0087	-5.9340	0.0640	0.0075	-1.9403	
48	15.09	-17.01	2.6819	-5.1785	2.9773	-5.3681	0.1890	0.0650	-1.9309	
49	15.07	-17.91	2.7431	-5.5752	2.9887	-5.4960	0.2750	0.0452	-2.0324	
50	15.08	-18.78	2.6665	-5.3688	3.2297	-5.9004	0.3000	0.0523	-2.0135	
51	15.09	-19.57	2.7325	-5.3554	3.3658	-6.0109	0.3620	0.0592	-1.9598	

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
		6	145								0.85	1.7
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.11	19.88	-0.7685	0.0386	-0.2592	-0.0502	0.3372	1.1273	0.0465	0.3583	0.0413	0.3179
2	15.11	19.49	-0.7638	0.0382	-0.2554	-0.0501	0.3344	1.1179	0.0454	0.3552	0.0406	0.3177
3	15.11	18.76	-0.7623	0.0364	-0.2564	-0.0477	0.3364	1.1305	0.0449	0.3563	0.0397	0.3152
4	15.12	17.91	-0.7284	0.0374	-0.2468	-0.0514	0.3388	1.1293	0.0442	0.3555	0.0391	0.3148
5	15.12	17.08	-0.6483	0.0398	-0.2303	-0.0614	0.3553	1.1155	0.0423	0.3514	0.0380	0.3150
6	15.12	16.27	-0.5625	0.0394	-0.2032	-0.0701	0.3613	1.0891	0.0432	0.3446	0.0397	0.3164
7	15.11	15.51	-0.5076	0.0387	-0.1939	-0.0762	0.3821	1.0761	0.0440	0.3422	0.0408	0.3174
8	15.09	14.72	-0.4624	0.0383	-0.1790	-0.0829	0.3871	1.0609	0.0435	0.3377	0.0410	0.3183
9	15.09	13.95	-0.4081	0.0398	-0.1667	-0.0975	0.4084	1.0586	0.0424	0.3386	0.0401	0.3199
10	15.09	13.15	-0.3918	0.0383	-0.1591	-0.0977	0.4059	1.0525	0.0436	0.3332	0.0415	0.3166
11	15.10	12.42	-0.3507	0.0388	-0.1470	-0.1107	0.4190	1.0505	0.0432	0.3319	0.0411	0.3160
12	15.10	11.62	-0.3123	0.0384	-0.1419	-0.1229	0.4542	1.0456	0.0435	0.3297	0.0416	0.3153
13	15.09	10.83	-0.2789	0.0404	-0.1343	-0.1448	0.4816	1.0459	0.0439	0.3280	0.0420	0.3136
14	15.08	10.00	-0.2195	0.0407	-0.1053	-0.1854	0.4799	1.0190	0.0433	0.3235	0.0425	0.3174
15	15.07	9.21	-0.1493	0.0460	-0.0890	-0.2682	0.5964	1.0155	0.0435	0.3210	0.0428	0.3161
16	15.07	8.39	-0.1208	0.0387	-0.0800	-0.3207	0.6627	1.0040	0.0442	0.3186	0.0441	0.3173
17	15.07	7.59	-0.0918	0.0398	-0.0728	-0.4335	0.7929	0.9944	0.0447	0.3168	0.0449	0.3185
18	15.07	6.78	-0.0427	0.0431	-0.0557	-1.0104	1.3051	0.9880	0.0458	0.3116	0.0464	0.3154
19	15.07	6.01	-0.0656	0.0502	-0.0645	-0.7659	0.9441	0.9830	0.0462	0.3114	0.0470	0.3167
20	15.06	5.16	-0.0232	0.0536	-0.0580	-2.3121	2.5013	0.9724	0.0454	0.3066	0.0467	0.3153
21	15.05	4.37	0.0304	0.0540	-0.0446	1.7776	-1.4661	0.9554	0.0482	0.3070	0.0504	0.3213
22	15.05	3.58	0.0491	0.0505	-0.0323	1.0293	-0.6586	0.9612	0.0467	0.3119	0.0486	0.3245
23	15.04	2.85	0.1021	0.0364	-0.0655	0.3564	-0.0576	1.0093	0.0324	0.3363	0.0321	0.3332
24	15.03	2.03	0.1035	0.0243	-0.0007	0.2352	-0.0069	0.9847	0.0297	0.3321	0.0302	0.3373
25	15.03	1.28	0.0424	0.0152	-0.0050	0.3596	-0.1173	0.9710	0.0319	0.3251	0.0329	0.3348
26	15.03	0.52	0.0391	0.0005	-0.0007	0.0141	-0.0172	0.9394	0.0319	0.3149	0.0340	0.3352
27	15.03	-0.22	0.0217	-0.0135	0.0119	-0.6243	0.5498	0.9112	0.0312	0.3059	0.0343	0.3357
28	15.03	-1.04	0.0383	-0.0383	0.0440	-0.4998	1.1478	0.8789	0.0277	0.2943	0.0315	0.3348
29	15.04	-1.84	0.0521	-0.0502	0.0530	-0.9634	1.0165	0.8506	0.0256	0.2866	0.0301	0.3370
30	15.03	-2.66	0.0243	-0.0583	0.0561	-2.3987	2.3085	0.8315	0.0231	0.2801	0.0278	0.3368
31	15.02	-3.47	0.0152	-0.0631	0.0542	-4.1539	3.5635	0.8153	0.0220	0.2745	0.0270	0.3366
32	15.02	-4.29	0.0200	-0.0643	0.0500	-3.2169	2.4982	0.7994	0.0207	0.2711	0.0259	0.3391
33	15.03	-5.03	0.0156	-0.0605	0.0542	-3.8775	3.4742	0.7842	0.0195	0.2646	0.0249	0.3374
34	15.03	-5.83	0.0252	-0.0553	0.0538	-2.1960	2.1348	0.7686	0.0191	0.2595	0.0249	0.3376
35	15.03	-6.60	0.0277	-0.0480	0.0460	-1.7343	1.6617	0.7599	0.0191	0.2567	0.0252	0.3378
36	15.04	-7.42	0.0851	-0.0448	0.0689	-0.5269	0.8103	0.7342	0.0155	0.2495	0.0211	0.3399
37	15.04	-8.19	0.1400	-0.0432	0.0785	-0.3085	0.5611	0.7188	0.0118	0.2456	0.0164	0.3417
38	15.05	-9.00	0.2127	-0.0456	0.1073	-0.2146	0.5043	0.6754	0.0027	0.2357	0.0040	0.3491
39	15.06	-9.78	0.2838	-0.0441	0.1282	-0.1555	0.4516	0.6338	-0.0064	0.2267	-0.0102	0.3577
40	15.06	-10.61	0.3168	-0.0460	0.1366	-0.1451	0.4310	0.6393	-0.0099	0.2272	-0.0156	0.3554
41	15.06	-11.34	0.3800	-0.0422	0.1525	-0.1110	0.4024	0.5862	-0.0165	0.2157	-0.0282	0.3680
42	15.06	-12.13	0.3788	-0.0424	0.1595	-0.1120	0.4222	0.5802	-0.0194	0.2141	-0.0334	0.3691
43	15.06	-12.91	0.4380	-0.0430	0.1691	-0.0981	0.3859	0.5484	-0.0261	0.2109	-0.0477	0.3846
44	15.07	-13.73	0.4593	-0.0443	0.1818	-0.0965	0.3459	0.5577	-0.0285	0.2111	-0.0511	0.3786
45	15.08	-14.55	0.4888	-0.0411	0.1907	-0.0841	0.3901	0.4974	-0.0331	0.1970	-0.0666	0.3961
46	15.09	-15.42	0.5486	-0.0394	0.1998	-0.0719	0.3642	0.4536	-0.0375	0.1845	-0.0827	0.4088

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	145	0.85	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED

PGINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	15.08	-16.20	0.6538	-0.0362	0.2283	-0.0554	0.3493	0.4498	-0.0423	0.1831	-0.0941	0.4070
48	15.09	-17.01	0.6698	-0.0418	0.2318	-0.0625	0.3461	0.4195	-0.0479	0.1785	-0.1141	0.4254
49	15.07	-17.91	0.8103	-0.0340	0.2664	-0.0419	0.3288	0.4456	-0.0487	0.1858	-0.1094	0.4169
50	15.08	-18.78	0.8091	-0.0430	0.2725	-0.0531	0.3368	0.5050	-0.0515	0.2049	-0.1019	0.4057
51	15.09	-19.57	0.8357	-0.0469	0.2754	-0.0561	0.3295	0.3849	-0.0561	0.1728	-0.1457	0.4488

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6	145	0.85	1.7	0.0	82W0F12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CB3	XC PF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	15.11	19.98	-0.7903	-0.0266	-0.2824	0.0336	0.3574	0.5288	-0.0552	0.2123	-0.1044	0.4015
2	15.11	19.49	-0.7681	-0.0271	-0.2845	0.0344	0.3610	0.5355	-0.0547	0.2174	-0.1022	0.4060
3	15.11	18.76	-0.8044	-0.0341	-0.2864	0.0424	0.3581	0.4887	-0.0552	0.2043	-0.1129	0.4181
4	15.12	17.91	-0.8469	-0.0506	-0.2853	0.0548	0.3369	0.4890	-0.0563	0.2016	-0.1152	0.4123
5	15.12	17.08	-0.4015	-0.0570	-0.2952	0.0633	0.3274	0.5175	-0.0556	0.2089	-0.1075	0.4037
6	15.12	16.27	-1.0367	-0.0635	-0.3455	0.0613	0.3333	0.5717	-0.0499	0.2156	-0.0873	0.3771
7	15.11	15.51	-1.0608	-0.0578	-0.3743	0.0545	0.3528	0.5694	-0.0425	0.2144	-0.0747	0.3766
8	15.09	14.72	-1.0222	-0.0559	-0.3639	0.0547	0.3560	0.6217	-0.0353	0.2250	-0.0568	0.3618
9	15.09	13.95	-0.9777	-0.0597	-0.3542	0.0610	0.3623	0.6625	-0.0317	0.2339	-0.0479	0.3531
10	15.09	13.15	-0.9879	-0.0527	-0.3668	0.0544	0.3713	0.6393	-0.0283	0.2298	-0.0443	0.3595
11	15.10	12.42	-0.9403	-0.0424	-0.3707	0.0451	0.3942	0.6722	-0.0222	0.2318	-0.0331	0.3448
12	15.10	11.62	-0.8719	-0.0385	-0.3517	0.0442	0.4034	0.6787	-0.0182	0.2319	-0.0268	0.3418
13	15.09	10.83	-0.8209	-0.0360	-0.3362	0.0439	0.4096	0.6892	-0.0135	0.2382	-0.0196	0.3457
14	15.08	10.00	-0.7537	-0.0332	-0.3173	0.0441	0.4210	0.7456	-0.0029	0.2449	-0.0039	0.3285
15	15.07	9.21	-0.6818	-0.0304	-0.3010	0.0446	0.4414	0.7583	0.0042	0.2524	0.0055	0.3328
16	15.07	8.39	-0.6155	-0.0266	-0.2796	0.0432	0.4542	0.7814	0.0080	0.2538	0.0103	0.3248
17	15.07	7.59	-0.5405	-0.0240	-0.2543	0.0445	0.4705	0.8111	0.0109	0.2580	0.0134	0.3181
18	15.07	6.78	-0.4672	-0.0229	-0.2262	0.0490	0.4841	0.8174	0.0128	0.2632	0.0157	0.3220
19	15.07	6.01	-0.3761	-0.0214	-0.2011	0.0569	0.5347	0.8174	0.0129	0.2632	0.0158	0.3220
20	15.06	5.16	-0.2440	-0.0193	-0.1743	0.0656	0.5927	0.8159	0.0163	0.2641	0.0200	0.3237
21	15.05	4.37	-0.2485	-0.0162	-0.1480	0.0654	0.5956	0.8258	0.0211	0.2698	0.0256	0.3267
22	15.05	3.58	-0.1849	-0.0133	-0.1232	0.0700	0.6486	0.8415	0.0241	0.2725	0.0287	0.3238
23	15.04	2.85	-0.1186	-0.0108	-0.1001	0.0915	0.8442	0.8835	0.0244	0.2825	0.0333	0.3197
24	15.03	2.03	-0.0645	-0.0083	-0.0748	0.1244	1.1596	0.9216	0.0306	0.2907	0.0332	0.3154
25	15.03	1.26	-0.0212	-0.0067	-0.0530	0.1660	2.4983	0.9346	0.0303	0.2971	0.0323	0.3162
26	15.03	0.52	0.0277	-0.0047	-0.0253	-0.1696	0.9123	0.9694	0.0313	0.3066	0.0323	0.3163
27	15.03	-0.22	0.0748	-0.0035	-0.0049	-0.0439	-0.0615	0.9895	0.0313	0.3151	0.0316	0.3185
28	15.03	-1.04	0.1332	-0.0012	0.0213	-0.0090	0.1598	0.9914	0.0410	0.3101	0.0413	0.3127
29	15.04	-1.84	0.1750	-0.0005	0.0448	-0.0629	0.2561	0.9660	0.0449	0.2990	0.0465	0.3095
30	15.03	-2.66	0.2336	0.0032	0.0695	0.0139	0.2477	0.9667	0.0436	0.2939	0.0451	0.3040
31	15.02	-3.47	0.2854	0.0062	0.0599	0.0217	0.3500	0.9799	0.0438	0.2981	0.0447	0.3042
32	15.02	-4.29	0.3574	0.0106	0.1240	0.0296	0.3469	0.9809	0.0411	0.2981	0.0419	0.3039
33	15.03	-5.03	0.4245	0.0135	0.1486	0.0319	0.3499	0.9768	0.0405	0.2978	0.0414	0.3049
34	15.03	-5.83	0.4962	0.0176	0.1733	0.0355	0.3493	0.9890	0.0415	0.3003	0.0420	0.3036
35	15.03	-6.60	0.5758	0.0205	0.1943	0.0356	0.3461	0.9809	0.0418	0.3009	0.0426	0.3067
36	15.04	-7.42	0.6368	0.0231	0.2297	0.0363	0.3607	0.9991	0.0413	0.3037	0.0414	0.3040
37	15.04	-8.19	0.7158	0.0271	0.2489	0.0379	0.3477	0.9947	0.0418	0.3027	0.0421	0.3043
38	15.05	-9.00	0.7815	0.0297	0.2694	0.0390	0.3538	1.0118	0.0418	0.3054	0.0413	0.3018
39	15.06	-9.78	0.8447	0.0332	0.2851	0.0393	0.3375	1.0234	0.0416	0.3059	0.0407	0.2989
40	15.06	-10.61	0.9059	0.0388	0.3088	0.0429	0.3408	1.0398	0.0436	0.3086	0.0419	0.2968
41	15.06	-11.34	0.9571	0.0445	0.3266	0.0434	0.3413	1.0489	0.0432	0.3109	0.0412	0.2964
42	15.06	-12.13	1.0145	0.0470	0.3410	0.0463	0.3362	1.0400	0.0432	0.3112	0.0416	0.2992
43	15.06	-12.91	1.0311	0.0603	0.3338	0.0585	0.3237	1.0393	0.0431	0.3144	0.0415	0.3025
44	15.07	-13.73	1.0496	0.0593	0.3301	0.0565	0.3145	1.0564	0.0432	0.3165	0.0409	0.2996
45	15.08	-14.55	1.0977	0.0573	0.3419	0.0522	0.3114	1.0557	0.0437	0.3189	0.0414	0.3021
46	15.09	-15.42	1.1372	0.0600	0.3487	0.0528	0.3067	1.0606	0.0429	0.3183	0.0405	0.3001

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		145	0.85	1.7	0.0	BZMOP12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	15.08	-16.20	1.1431	0.0649	0.3417	0.0568	0.2989	1.0588	0.0474	0.3218	0.0448	0.3039	
48	15.09	-17.01	0.9841	0.0597	0.2776	0.0607	0.2821	1.0850	0.0457	0.3266	0.0422	0.3011	
49	15.07	-17.91	0.9328	0.0563	0.2627	0.0603	0.2817	1.1075	0.0487	0.3268	0.0440	0.2951	
50	15.08	-18.78	0.8330	0.0307	0.2543	0.0369	0.3053	1.1022	0.0507	0.3352	0.0460	0.3041	
51	15.09	-19.57	0.8300	0.0263	0.2521	0.0317	0.3037	1.1170	0.0512	0.3374	0.0458	0.3021	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	146	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	18.13	19.92	2.9896	-5.5503	-3.6810	6.4772	-0.0760	-0.0558	-1.8585	
2	18.13	19.57	3.0331	-5.6232	-3.6486	6.4479	-0.0700	-0.0662	-1.8539	
3	18.14	18.85	3.1520	-5.7736	-3.3707	5.9958	-0.0870	-0.0601	-1.8317	
4	18.14	18.01	3.1392	-5.7667	-3.3952	5.9051	-0.0570	-0.0633	-1.8364	
5	18.14	17.17	3.1900	-5.4028	-3.1577	5.5366	0.0050	-0.0631	-1.8504	
6	18.14	16.35	3.0478	-5.5008	-3.2177	6.0186	0.1730	-0.0647	-1.8245	
7	18.14	15.57	3.0276	-5.4325	-3.1587	5.9330	0.2250	-0.0718	-1.7943	
8	18.13	14.79	3.0706	-5.6677	-2.9855	5.6875	0.2310	-0.0713	-1.8458	
9	18.13	14.00	3.1734	-5.4645	-2.7088	5.3422	0.2230	-0.0522	-1.8795	
10	18.13	13.20	3.1610	-5.8862	-2.6100	5.2207	0.2880	-0.0426	-1.8621	
11	18.13	12.42	3.1284	-5.9315	-2.5412	5.0184	0.3200	-0.0328	-1.8960	
12	18.11	11.63	3.0541	-6.0785	-2.4781	4.9141	0.3490	-0.0296	-1.9903	
13	18.10	10.84	3.1419	-6.3284	-2.2576	4.4545	0.3480	-0.0220	-2.0142	
14	18.09	10.00	3.0756	-6.3876	-2.1007	4.3278	0.3720	-0.0101	-2.0769	
15	18.09	9.23	3.1390	-6.5413	-1.8734	3.8635	0.3510	-0.0072	-2.0839	
16	18.09	8.37	3.1590	-6.6523	-1.7155	3.4035	0.3330	0.0081	-2.1058	
17	18.08	7.59	3.2100	-6.8457	-1.5069	3.0565	0.3300	0.0028	-2.1326	
18	18.09	6.78	3.2221	-6.8346	-1.3120	2.6597	0.3010	0.0234	-2.1212	
19	18.08	5.97	3.2700	-6.9656	-1.1215	2.1500	0.2700	0.0172	-2.1302	
20	18.09	5.10	3.3646	-7.1341	-0.9090	1.6098	0.2160	0.0246	-2.1204	
21	18.07	4.32	3.4247	-7.6401	-0.8312	1.3046	0.2110	-0.0008	-2.2309	
22	18.06	3.51	3.4254	-7.7621	-0.7373	1.2382	0.2040	-0.0086	-2.2661	
23	18.06	2.78	3.4316	-7.8028	-0.5682	0.9715	0.1660	-0.0134	-2.2738	
24	18.05	1.97	3.4855	-7.9854	-0.3386	0.5790	0.0810	-0.0137	-2.2910	
25	18.06	1.20	3.4462	-7.7234	-0.2766	0.4652	0.0470	-0.0004	-2.2411	
26	18.06	0.45	3.4392	-7.7176	-0.1911	0.4205	0.0370	0.0163	-2.2440	
27	18.06	-0.32	3.4520	-7.6585	-0.1504	0.2685	0.0300	0.0095	-2.2765	
28	18.05	-1.14	3.5162	-8.0553	-0.0581	0.1073	0.0090	-0.0004	-2.2909	
29	18.02	-1.94	3.4926	-8.0173	0.0838	-0.1043	-0.0340	0.0057	-2.2955	
30	18.04	-2.77	3.4699	-7.8535	0.1930	-0.2592	-0.0580	0.0134	-2.2633	
31	18.03	-3.59	3.4400	-7.8147	0.4147	-0.5556	-0.1140	0.0207	-2.2717	
32	18.04	-4.42	3.3775	-7.6311	0.5398	-0.8787	-0.1220	0.0312	-2.2594	
33	18.05	-5.15	3.3311	-7.3081	0.7435	-1.2439	-0.1630	0.0494	-2.1939	
34	18.06	-5.98	3.2729	-7.0947	0.9470	-1.7107	-0.2190	0.0532	-2.1693	
35	18.05	-6.75	3.3101	-7.2308	1.0799	-1.9827	-0.2160	0.0300	-2.1845	
36	18.06	-7.59	3.2100	-6.7627	1.3078	-2.5659	-0.2500	0.0511	-2.1068	
37	18.06	-8.36	3.1904	-6.7282	1.4919	-2.8996	-0.2390	0.0349	-2.1089	
38	18.08	-9.19	3.1640	-6.4723	1.6660	-3.4292	-0.2590	0.0330	-2.0456	
39	18.07	-9.97	3.1911	-6.5962	1.8166	-3.5641	-0.2500	0.0137	-2.0671	
40	18.11	-10.76	3.1253	-5.8742	2.0486	-4.1829	-0.2690	0.0487	-1.8796	
41	18.12	-11.54	3.1325	-5.7883	2.1345	-4.5191	-0.2280	0.0429	-1.8478	
42	18.10	-12.33	3.0308	-5.7779	2.3435	-5.0377	-0.2420	0.0342	-1.9064	
43	18.09	-13.09	3.1172	-6.1218	2.4259	-5.0200	-0.1730	-0.0151	-1.9639	
44	18.10	-13.98	3.0503	-5.7802	2.6781	-5.3372	-0.1850	0.0020	-1.8950	
45	18.11	-14.80	3.0249	-5.5857	2.8174	-5.6772	-0.1740	-0.0170	-1.8466	
46	18.11	-15.63	3.0042	-5.5127	2.9796	-5.8822	-0.1490	-0.0289	-1.8390	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	146	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP
47	18.11	-16.42	3.0456	-5.5897	2.9684	-5.4796	-0.0360	0.0013	-1.8353
48	18.11	-17.29	3.1743	-5.9348	3.0089	-5.3063	0.1070	0.0123	-1.8696
49	18.11	-18.16	3.1246	-5.7482	3.1634	-5.5406	0.1430	0.0054	-1.8397
50	18.12	-19.03	3.1169	-5.6425	3.3615	-5.7529	0.1810	0.0110	-1.8103
51	18.14	-19.82	3.1343	-5.3899	3.5239	-5.9694	0.2420	0.0109	-1.7196

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	146	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	18.13	19.92	-0.7844	0.0421	-0.2563	-0.0537	0.3267	0.0288	0.0408	-0.0443	1.4181	-1.5383
2	18.13	19.57	-0.7870	0.0407	-0.2626	-0.0517	0.3337	0.0282	0.0399	-0.0413	1.4146	-1.4647
3	18.14	18.85	-0.7567	0.0435	-0.2567	-0.0575	0.3393	-0.0013	0.0396	-0.0319	-30.4946	24.5640
4	18.14	18.01	-0.7105	0.0442	-0.2473	-0.0622	0.3481	0.0178	0.0395	-0.0403	2.2215	-2.2623
5	18.14	17.17	-0.6426	0.0470	-0.2275	-0.0731	0.3541	0.0507	0.0402	-0.0429	0.7937	-0.8463
6	18.14	16.35	-0.4737	0.0505	-0.1792	-0.1066	0.3784	0.0607	0.0401	-0.0563	0.6605	-0.9271
7	18.14	15.57	-0.4449	0.0528	-0.1837	-0.1186	0.4130	0.0256	0.0398	-0.0592	1.5564	-2.3113
8	18.13	14.79	-0.4243	0.0547	-0.1744	-0.1289	0.4110	0.0253	0.0395	-0.0504	1.5630	-1.9909
9	18.13	14.00	-0.4018	0.0563	-0.1729	-0.1401	0.4303	0.0762	0.0385	-0.0636	0.5052	-0.8348
10	18.13	13.20	-0.3643	0.0529	-0.1604	-0.1453	0.4402	0.0946	0.0388	-0.0774	0.4101	-0.8179
11	18.13	12.42	-0.2817	0.0497	-0.1315	-0.1763	0.4666	0.1215	0.0397	-0.0772	0.3267	-0.6355
12	18.11	11.63	-0.2231	0.0464	-0.1146	-0.2082	0.5139	0.2434	0.0474	-0.1177	0.1947	-0.4835
13	18.10	10.84	-0.1917	0.0432	-0.0955	-0.2253	0.4981	0.2293	0.0457	-0.1154	0.1995	-0.5032
14	18.09	10.00	-0.1806	0.0392	-0.0867	-0.2170	0.4799	0.0786	0.0395	-0.0760	0.5025	-0.9670
15	18.09	9.23	-0.1649	0.0450	-0.0928	-0.2731	0.5631	0.1222	0.0392	-0.0894	0.3211	-0.7314
16	18.09	8.37	-0.1490	0.0482	-0.0800	-0.3234	0.5372	0.1678	0.0411	-0.1051	0.2449	-0.6263
17	18.08	7.59	-0.0651	0.0487	-0.0554	-0.7479	0.8509	0.2633	0.0469	-0.1288	0.1781	-0.4894
18	18.09	6.78	-0.0624	0.0579	-0.0612	-0.9277	0.9806	0.2255	0.0433	-0.1380	0.1922	-0.6122
19	18.08	5.97	-0.0649	0.0634	-0.0663	-0.9775	1.0220	0.2535	0.0452	-0.1436	0.1783	-0.5666
20	18.09	5.10	0.0196	0.0660	-0.0443	-3.3667	-2.2586	0.3462	0.0547	-0.1435	0.1579	-0.4144
21	18.07	4.32	0.1278	0.0519	-0.0012	0.4064	-0.0095	0.2018	0.0564	-0.0887	0.2797	-0.4398
22	18.06	3.51	0.1097	0.0359	0.0110	0.3277	0.0999	0.0717	0.0564	-0.0719	0.7872	-1.0029
23	18.06	2.78	0.0932	0.0348	0.0029	0.3739	0.0306	0.0670	0.0561	-0.0665	0.8372	-0.9922
24	18.05	1.97	0.0256	0.0409	-0.0294	1.5974	-1.1473	0.0318	0.0562	-0.0595	1.7686	-1.8712
25	18.06	1.20	0.0273	0.0192	-0.0110	0.7032	-0.4030	0.1168	0.0551	-0.0706	0.4721	-0.6043
26	18.06	0.45	0.0197	-0.0044	0.0092	-0.2258	0.4652	0.1970	0.0547	-0.0888	0.2779	-0.4510
27	18.06	-0.32	-0.0008	-0.0287	0.0292	35.8686	-36.5418	0.2151	0.0538	-0.0929	0.2503	-0.4320
28	18.05	-1.14	0.0037	-0.0541	0.0563	-14.6325	15.2251	0.0320	0.0478	-0.0485	1.4935	-1.5168
29	18.02	-1.94	-0.0172	-0.0601	0.0442	3.4936	-2.5679	0.1669	0.0472	-0.0778	0.2828	-0.4661
30	18.04	-2.77	-0.0252	-0.0730	0.0528	2.8983	-2.0954	0.2731	0.0459	-0.1063	0.1680	-0.3892
31	18.03	-3.59	-0.0231	-0.0774	0.0625	3.3501	-2.7057	0.2250	0.0440	-0.1089	0.1957	-0.4841
32	18.04	-4.42	-0.0397	-0.0775	0.0568	1.9518	-1.4300	0.2818	0.0442	-0.1219	0.1569	-0.4327
33	18.05	-5.15	-0.0012	-0.0753	0.0646	62.7388	-53.8334	0.2601	0.0427	-0.1287	0.1641	-0.4949
34	18.06	-5.98	0.0050	-0.0697	0.0593	-13.9375	11.8532	0.1891	0.0422	-0.1127	0.2234	-0.5959
35	18.05	-6.75	0.0222	-0.0659	0.0650	-2.4702	2.4278	0.1458	0.0413	-0.1069	0.2836	-0.7333
36	18.06	-7.59	0.0931	-0.0650	0.0875	-0.6981	0.9401	0.1978	0.0389	-0.1335	0.1966	-0.6749
37	18.06	-8.36	0.1107	-0.0623	0.0900	-0.5631	0.8129	0.2292	0.0383	-0.1527	0.1673	-0.6663
38	18.08	-9.19	0.1735	-0.0635	0.1052	-0.3662	0.6295	0.1691	0.0356	-0.1520	0.2108	-0.8992
39	18.07	-9.97	0.1544	-0.0546	0.1005	-0.3536	0.6512	0.1819	0.0356	-0.1643	0.1960	-0.9032
40	18.11	-10.76	0.2938	-0.0646	0.1506	-0.2198	0.5125	0.1846	0.0289	-0.1869	0.1568	-1.0124
41	18.12	-11.54	0.3620	-0.0640	0.1668	-0.1767	0.4608	0.1065	0.0268	-0.1837	0.2516	-1.7250
42	18.10	-12.33	0.4331	-0.0669	0.1889	-0.1545	0.4362	0.1841	0.0237	-0.2028	0.1290	-1.1019
43	18.09	-13.09	0.4170	-0.0617	0.1862	-0.1479	0.4466	0.2224	0.0251	-0.2077	0.1131	-0.9339
44	18.10	-13.98	0.4324	-0.0676	0.1921	-0.1564	0.4442	0.2275	0.0228	-0.2143	0.1042	-0.9419
45	18.11	-14.80	0.4461	-0.0643	0.1944	-0.1442	0.4359	0.2177	0.0213	-0.2300	0.0981	-1.0568
46	18.11	-15.63	0.4968	-0.0630	0.2086	-0.1268	0.4200	0.1472	0.0188	-0.2321	0.1277	-1.5771

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	146	0.85	1.7	0.0	02WDF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.11	-16.42	0.5723	-0.0552	0.2231	-0.0964	0.3898	0.1211	0.0179	-0.2519	0.1478	-2.0805
48	18.11	-17.29	0.6315	-0.0640	0.2377	-0.1013	0.3764	0.1876	0.0150	-0.2573	0.0802	-1.3720
49	18.11	-18.16	0.6568	-0.0637	0.2481	-0.0970	0.3778	0.1455	0.0152	-0.2681	0.1044	-1.8427
50	18.12	-19.03	0.6620	-0.0641	0.2480	-0.0968	0.3746	0.1080	0.0155	-0.2684	0.1440	-2.4853
51	18.14	-19.82	0.7267	-0.0616	0.2689	-0.0848	0.3701	0.0304	0.0148	-0.2824	0.4884	-9.2918

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	146	0.85	1.7	0.0	82W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	18.13	19.92	-0.8361	-0.0288	-0.3047	0.0345	0.3644	0.6734	-0.0449	0.2500	-0.0667	0.3712
2	18.13	19.57	-0.8273	-0.0293	-0.3037	0.0355	0.3671	0.6999	-0.0440	0.2490	-0.0628	0.3558
3	18.14	18.85	-0.8283	-0.0318	-0.3034	0.0364	0.3663	0.6997	-0.0455	0.2514	-0.0651	0.3594
4	18.14	18.01	-0.8590	-0.0438	-0.3032	0.0510	0.3530	0.6665	-0.0477	0.2437	-0.0716	0.3656
5	18.14	17.17	-0.8734	-0.0567	-0.2992	0.0649	0.3426	0.7506	-0.0443	0.2664	-0.0591	0.3549
6	18.14	16.35	-1.0436	-0.0640	-0.3561	0.0613	0.3413	0.7301	-0.0457	0.2566	-0.0626	0.3514
7	18.14	15.57	-1.0845	-0.0572	-0.3851	0.0528	0.3551	0.6897	-0.0422	0.2454	-0.0612	0.3558
8	18.13	14.79	-1.0186	-0.0562	-0.3796	0.0552	0.3727	0.7141	-0.0373	0.2519	-0.0522	0.3528
9	18.13	14.00	-1.0089	-0.0622	-0.3761	0.0617	0.3728	0.7433	-0.0398	0.2579	-0.0469	0.3469
10	18.13	13.20	-0.9561	-0.0489	-0.3885	0.0491	0.3900	0.7633	-0.0284	0.2555	-0.0373	0.3348
11	18.13	12.42	-0.9461	-0.0444	-0.3820	0.0469	0.4037	0.7942	-0.0195	0.2665	-0.0246	0.3356
12	18.11	11.63	-0.8798	-0.0420	-0.3644	0.0477	0.4141	0.8337	-0.0105	0.2770	-0.0126	0.3323
13	18.10	10.84	-0.8187	-0.0392	-0.3466	0.0479	0.4233	0.8833	-0.0022	0.2824	-0.0025	0.3197
14	18.09	10.00	-0.7553	-0.0365	-0.3261	0.0443	0.4317	0.9470	0.0092	0.2983	0.0097	0.3150
15	18.09	9.23	-0.6755	-0.0311	-0.3096	0.0461	0.4585	0.9359	0.0083	0.3013	0.0089	0.3219
16	18.09	8.47	-0.5879	-0.0280	-0.2881	0.0476	0.4900	0.9486	0.0097	0.3021	0.0103	0.3185
17	18.08	7.59	-0.5248	-0.0264	-0.2663	0.0503	0.5073	0.9486	0.0139	0.3035	0.0147	0.3198
18	18.09	6.78	-0.4452	-0.0242	-0.2382	0.0544	0.5351	0.9589	0.0114	0.3031	0.0117	0.3161
19	18.08	5.97	-0.3664	-0.0219	-0.2086	0.0597	0.5692	0.9501	0.0107	0.3033	0.0113	0.3192
20	18.09	5.10	-0.2958	-0.0193	-0.1786	0.0654	0.6036	0.9643	0.0181	0.3038	0.0187	0.3137
21	18.07	4.32	-0.2401	-0.0170	-0.1535	0.0710	0.6393	1.0111	0.0285	0.3117	0.0282	0.3083
22	18.06	3.51	-0.1828	-0.0146	-0.1318	0.0801	0.7211	1.0474	0.0320	0.3232	0.0306	0.3086
23	18.06	2.78	-0.1090	-0.0108	-0.1075	0.0995	0.9901	1.0494	0.0327	0.3246	0.0311	0.3093
24	18.05	1.97	-0.0352	-0.0074	-0.0770	0.2102	1.1883	1.0625	0.0315	0.3277	0.0297	0.3085
25	18.06	1.20	0.0076	-0.0056	-0.0522	-0.7367	-6.8642	1.0175	0.0432	0.3100	0.0425	0.3046
26	18.06	0.45	0.0605	-0.0039	-0.0305	-0.0645	-0.5114	1.0410	0.0423	0.3152	0.0406	0.3028
27	18.06	-0.32	0.1063	-0.0028	-0.0046	-0.0263	-0.0431	1.0806	0.0461	0.3164	0.0426	0.2928
28	18.05	-1.14	0.1429	-0.0012	0.0171	-0.0086	0.1173	1.0793	0.0494	0.3164	0.0458	0.2932
29	18.02	-1.94	0.2071	0.0007	0.0462	0.0036	0.2231	1.0843	0.0495	0.3143	0.0456	0.2899
30	18.04	-2.77	0.2689	0.0040	0.0752	0.0149	0.2797	1.0672	0.0498	0.3100	0.0466	0.2905
31	18.03	-3.59	0.3192	0.0068	0.1013	0.0214	0.3172	1.0328	0.0483	0.3036	0.0468	0.2939
32	18.04	-4.42	0.3868	0.0120	0.1287	0.0311	0.3327	1.0474	0.0475	0.2995	0.0453	0.2860
33	18.05	-5.15	0.4535	0.0159	0.1571	0.0350	0.3464	0.9841	0.0460	0.2856	0.0468	0.2902
34	18.06	-5.98	0.5371	0.0194	0.1853	0.0362	0.3449	0.9688	0.0446	0.2764	0.0461	0.2853
35	18.05	-6.75	0.6096	0.0216	0.2097	0.0354	0.3440	0.9932	0.0460	0.2846	0.0463	0.2865
36	18.06	-7.59	0.6704	0.0242	0.2412	0.0362	0.3598	0.9397	0.0445	0.2671	0.0473	0.2843
37	18.06	-8.36	0.7599	0.0279	0.2603	0.0367	0.3426	0.9818	0.0461	0.2757	0.0470	0.2808
38	18.08	-9.19	0.8370	0.0328	0.2826	0.0392	0.3376	0.9294	0.0446	0.2637	0.0480	0.2837
39	18.07	-9.97	0.8845	0.0367	0.2990	0.0415	0.3381	1.0192	0.0493	0.2917	0.0484	0.2862
40	18.11	-10.76	0.9666	0.0385	0.3235	0.0399	0.3347	0.8575	0.0425	0.2437	0.0495	0.2841
41	18.12	-11.54	1.0323	0.0418	0.3411	0.0405	0.3304	0.9049	0.0455	0.2567	0.0503	0.2837
42	18.10	-12.33	1.0986	0.0451	0.3600	0.0410	0.3331	0.8852	0.0436	0.2515	0.0493	0.2841
43	18.09	-13.09	1.1013	0.0631	0.3485	0.0573	0.3168	1.0276	0.0507	0.2880	0.0494	0.2803
44	18.10	-13.98	1.1270	0.0581	0.3433	0.0515	0.3046	0.9692	0.0474	0.2710	0.0489	0.2796
45	18.11	-14.80	1.1626	0.0579	0.3585	0.0498	0.3084	1.0145	0.0507	0.2864	0.0500	0.2823
46	18.11	-15.63	1.2003	0.0617	0.3623	0.0514	0.3018	1.0109	0.0509	0.2821	0.0503	0.2790

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		146	0.85	1.7	0.0	BZHOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	18.11	-16.42	1.1467	0.0657	0.3259	0.0573	0.2842	0.9804	0.0480	0.2756	0.0490	0.2811
48	18.11	-17.29	0.9755	0.0572	0.2746	0.0586	0.2815	1.1171	0.0519	0.3113	0.0465	0.2787
49	18.11	-18.16	0.9497	0.0394	0.2725	0.0415	0.2869	1.0711	0.0503	0.3010	0.0470	0.2810
50	18.12	-19.03	0.9055	0.0276	0.2700	0.0305	0.2982	1.1187	0.0516	0.3143	0.0462	0.2809
51	18.14	-19.82	0.8935	0.0248	0.2696	0.0277	0.3018	1.1210	0.0521	0.3114	0.0465	0.2778

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	147	0.85	1.7	0.0	B2HOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	21.23	19.70	3.7184	-5.8187	-3.7610	5.8563	0.0310	-0.1161	-1.5648	
2	21.23	19.32	3.7339	-5.8854	-3.6946	5.6994	0.0270	-0.1225	-1.5762	
3	21.23	18.52	3.6925	-5.7165	-3.7036	5.5710	0.0870	-0.0930	-1.5481	
4	21.23	17.69	3.8049	-5.9708	-3.4958	5.2061	0.1440	-0.0854	-1.5692	
5	21.22	16.85	3.7511	-6.0454	-3.2944	5.1950	0.2090	-0.0722	-1.6116	
6	21.23	16.09	3.7340	-5.9255	-3.2001	5.6600	0.3180	-0.0952	-1.5869	
7	21.20	15.24	3.4501	-5.7501	-3.4301	6.3379	0.4569	-0.0947	-1.6666	
8	21.18	14.49	3.6010	-6.3593	-2.9795	5.7561	0.3670	-0.0956	-1.7660	
9	21.18	13.68	3.6587	-6.5610	-2.7726	5.4515	0.4019	-0.0786	-1.7933	
10	21.17	12.92	3.5816	-6.5191	-2.6926	5.3305	0.4219	-0.0619	-1.8201	
11	21.17	12.11	3.5380	-6.4401	-2.5554	5.4253	0.4649	-0.0646	-1.8202	
12	21.15	11.30	3.5948	-6.7855	-2.3158	4.8529	0.4059	-0.0406	-1.8876	
13	21.15	10.48	3.4907	-6.5648	-2.3185	4.9257	0.5009	-0.0394	-1.8806	
14	21.15	9.68	3.5212	-6.6335	-2.0807	4.5208	0.4639	-0.0230	-1.8839	
15	21.15	8.84	3.5198	-6.5946	-1.9317	4.2722	0.4629	-0.0093	-1.8735	
16	21.14	8.03	3.5058	-6.5690	-1.8096	4.0512	0.5139	-0.0091	-1.8737	
17	21.14	7.18	3.5166	-6.6651	-1.6320	3.6426	0.4049	-0.0036	-1.8953	
18	21.14	6.41	3.5535	-6.7837	-1.3639	3.0953	0.4329	0.0058	-1.9090	
19	21.14	5.55	3.6603	-7.0562	-1.2513	2.6847	0.4569	-0.0078	-1.9278	
20	21.14	4.72	3.7433	-7.1654	-1.1197	2.1794	0.4339	0.0041	-1.9142	
21	21.13	3.91	3.6663	-7.1956	-0.9571	2.2442	0.4249	0.0091	-1.9626	
22	21.12	3.16	3.7327	-7.4665	-0.7588	1.8822	0.3590	0.0046	-2.0003	
23	21.09	2.34	3.7474	-7.5961	-0.5876	1.3866	0.3000	0.0007	-2.0270	
24	21.08	1.56	3.9438	-8.2389	-0.3379	0.7630	0.1500	-0.0731	-2.0891	
25	21.08	0.77	4.1102	-8.7688	-0.2135	0.4638	0.0590	-0.0834	-2.1335	
26	21.07	0.02	4.0824	-8.8339	-0.1161	0.2995	-0.0130	-0.0793	-2.1639	
27	21.08	-0.78	3.9695	-8.4369	0.0511	-0.1595	-0.1110	-0.0535	-2.1254	
28	21.09	-1.63	3.9031	-8.1370	0.1937	-0.4021	-0.1880	-0.0201	-2.0848	
29	21.10	-2.44	3.8335	-7.7666	0.3940	-1.0066	-0.2940	0.0277	-2.0260	
30	21.10	-3.31	3.7860	-7.5291	0.6511	-1.4985	-0.3700	0.0351	-1.9887	
31	21.11	-4.12	3.7279	-7.4008	0.7273	-1.6861	-0.4029	0.0330	-1.9852	
32	21.11	-4.93	3.6997	-7.1073	0.8271	-2.0128	-0.4029	0.0415	-1.9474	
33	21.12	-5.66	3.6632	-7.0463	1.1227	-2.3976	-0.4489	0.0414	-1.9235	
34	21.12	-6.52	3.6330	-6.9820	1.2368	-2.6864	-0.4349	0.0225	-1.9218	
35	21.11	-7.32	3.6814	-7.1997	1.3337	-2.7521	-0.4429	0.0021	-1.9557	
36	21.11	-8.09	3.6683	-7.1354	1.5321	-3.0628	-0.4224	-0.0063	-1.9346	
37	21.12	-8.93	3.6526	-7.0034	1.6524	-3.5482	-0.4149	-0.0088	-1.9174	
38	21.12	-9.74	3.6230	-6.8640	1.9328	-3.9078	-0.4089	-0.0283	-1.8945	
39	21.14	-10.52	3.6034	-6.7236	2.1166	-4.3511	-0.4339	-0.0338	-1.8659	
40	21.14	-11.31	3.5845	-6.5231	2.2672	-4.6829	-0.4219	-0.0453	-1.8198	
41	21.15	-12.10	3.5439	-6.3793	2.4420	-5.1215	-0.4359	-0.0492	-1.8001	
42	21.16	-12.87	3.6488	-6.4402	2.5946	-5.1192	-0.3859	-0.0498	-1.7650	
43	21.14	-13.71	3.5963	-6.4057	2.6892	-5.1488	-0.3190	-0.0549	-1.7812	
44	21.14	-14.57	3.5724	-6.2872	2.9116	-5.5051	-0.3140	-0.0724	-1.7599	
45	21.17	-15.43	3.5236	-5.9450	3.0901	-5.7819	-0.3270	-0.0761	-1.6872	
46	21.16	-16.19	3.5804	-6.1764	3.0706	-5.1417	-0.2070	-0.0507	-1.7251	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 UEL2 DEL3 DEL4 TRANSITION
6 147 0.85 1.7 0.0 82WUFL2 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	21.16	-17.07	3.6243	-6.1989	3.1969	-5.1285	-0.1240	-0.0637	-1.7104
48	21.17	-17.95	3.5362	-5.8776	3.3522	-5.4659	-0.0680	-0.0783	-1.6621
49	21.19	-18.83	3.5753	-5.7444	3.5166	-5.5332	0.0020	-0.0892	-1.6067
50	21.20	-19.64	3.5776	-5.4826	3.7189	-5.6414	0.0630	-0.1076	-1.5325

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION		
6	1.47	0.85	1.7	0.0	B2WOF1.2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.23	19.70	-0.7672	0.0430	-0.2572	-0.0561	0.3353	0.3809	0.0428	-0.1412	0.1124	-0.3707
2	21.23	19.32	-0.7075	0.0466	-0.2488	-0.0658	0.3517	0.3813	0.0426	-0.1414	0.1118	-0.3708
3	21.23	18.52	-0.5304	0.0543	-0.2037	-0.1024	0.3841	0.3811	0.0420	-0.1476	0.1102	-0.3871
4	21.23	17.69	-0.4884	0.0565	-0.1885	-0.1156	0.3868	0.3576	0.0420	-0.1496	0.1174	-0.4183
5	21.22	16.85	-0.4293	0.0592	-0.1757	-0.1378	0.4091	0.3444	0.0422	-0.1572	0.1225	-0.4563
6	21.23	16.09	-0.3935	0.0568	-0.1622	-0.1444	0.4122	0.3436	0.0428	-0.1660	0.1247	-0.4832
7	21.20	15.24	-0.3166	0.0491	-0.1277	-0.1552	0.4033	0.3168	0.0432	-0.1713	0.1363	-0.5406
8	21.18	14.49	-0.4546	0.0539	-0.1842	-0.1185	0.4051	0.3241	0.0431	-0.1661	0.1331	-0.5126
9	21.18	13.68	-0.4346	0.0553	-0.1725	-0.1272	0.3969	0.3049	0.0432	-0.1708	0.1416	-0.5602
10	21.17	12.92	-0.3949	0.0559	-0.1706	-0.1415	0.4319	0.3036	0.0435	-0.1814	0.1432	-0.5973
11	21.17	12.11	-0.3440	0.0511	-0.1422	-0.1485	0.4134	0.2572	0.0440	-0.1857	0.1712	-0.7220
12	21.15	11.30	-0.3571	0.0597	-0.1563	-0.1671	0.4376	0.2085	0.0432	-0.1876	0.2072	-0.8999
13	21.15	10.48	-0.2358	0.0498	-0.1080	-0.2114	0.4579	0.1537	0.0433	-0.1931	0.2817	-1.2569
14	21.15	9.68	-0.2616	0.0581	-0.1284	-0.2222	0.4911	0.0878	0.0431	-0.2010	0.4908	-2.2898
15	21.15	8.84	-0.2557	0.0620	-0.1321	-0.2424	0.5166	0.1265	0.0434	-0.2155	0.3430	-1.7039
16	21.14	8.03	-0.1244	0.0514	-0.0665	-0.4131	0.5350	0.0901	0.0441	-0.2202	0.4894	-2.4448
17	21.14	7.18	-0.1335	0.0602	-0.0811	-0.4509	0.6074	0.0979	0.0442	-0.2248	0.4514	-2.2970
18	21.14	6.41	-0.1287	0.0650	-0.0778	-0.5050	0.6044	0.1127	0.0443	-0.2306	0.3930	-2.0466
19	21.14	5.55	-0.0114	0.0516	-0.0331	-4.5294	2.9034	0.1366	0.0443	-0.2233	0.3246	-1.6353
20	21.14	4.72	0.0064	0.0550	-0.0306	8.6000	-4.7762	0.1721	0.0443	-0.2225	0.2577	-1.2932
21	21.13	3.91	-0.0326	0.0515	-0.0385	-1.5810	1.1798	0.1219	0.0447	-0.2258	0.3666	-1.8530
22	21.12	3.16	-0.0285	0.0515	-0.0365	-1.8067	1.2806	0.1810	0.0452	-0.2180	0.2500	-1.2049
23	21.09	2.34	-0.0244	0.0481	-0.0377	-1.9730	1.5463	0.1959	0.0458	-0.2015	0.2340	-1.0287
24	21.08	1.56	0.0187	0.0253	-0.0055	1.3554	-0.2925	0.2718	0.0545	-0.1033	0.2005	-0.3802
25	21.08	0.77	0.0026	0.0110	-0.0035	4.2452	-1.3591	0.1683	0.0554	-0.0663	0.3291	-0.3941
26	21.07	0.02	-0.0420	-0.0108	0.0040	0.2571	-0.0954	0.1718	0.0555	-0.0473	0.3233	-0.2756
27	21.08	-0.78	-0.0341	-0.0161	0.0039	0.4735	-0.1155	0.2420	0.0539	-0.0521	0.2229	-0.2151
28	21.09	-1.63	-0.0545	-0.0516	0.0399	0.9475	-0.7328	0.3654	0.0498	-0.0596	0.1362	-0.1631
29	21.10	-2.44	-0.0507	-0.0586	0.0365	1.1566	-0.7200	0.2681	0.0464	-0.0443	0.1732	-0.1651
30	21.10	-3.31	-0.0601	-0.0651	0.0338	1.0830	-0.5620	0.4092	0.0449	-0.0711	0.1098	-0.1737
31	21.11	-4.12	-0.0434	-0.0671	0.0208	0.7188	-0.2225	0.3496	0.0456	-0.0688	0.1304	-0.1967
32	21.11	-4.93	-0.0590	-0.0765	0.0427	1.2472	-0.7244	0.3908	0.0429	-0.0905	0.1099	-0.2316
33	21.12	-5.66	-0.0553	-0.0752	0.0478	1.3605	-0.8639	0.3574	0.0411	-0.0932	0.1151	-0.2606
34	21.12	-6.52	0.0034	-0.0743	0.0640	-21.8637	18.8332	0.3476	0.0392	-0.1074	0.1127	-0.3090
35	21.11	-7.32	-0.0082	-0.0708	0.0585	8.6326	-7.1302	0.3576	0.0392	-0.1134	0.1096	-0.3171
36	21.11	-8.09	0.0251	-0.0707	0.0642	-2.8182	2.7555	0.3441	0.0377	-0.1193	0.1097	-0.3466
37	21.12	-8.93	0.1117	-0.0721	0.1006	-0.6458	0.9008	0.2164	0.0345	-0.1174	0.1544	-0.5425
38	21.12	-9.74	0.1621	-0.0711	0.1147	-0.4388	0.7077	0.2958	0.0330	-0.1399	0.1115	-0.4728
39	21.14	-10.52	0.1683	-0.0671	0.1071	-0.3989	0.6362	0.2929	0.0319	-0.1414	0.1089	-0.4828
40	21.14	-11.31	0.2222	-0.0668	0.1279	-0.3008	0.5758	0.3219	0.0292	-0.1614	0.0908	-0.5013
41	21.15	-12.10	0.2354	-0.0624	0.1317	-0.2650	0.5596	0.3583	0.0275	-0.1726	0.0767	-0.4818
42	21.16	-12.87	0.2935	-0.0617	0.1536	-0.2103	0.5233	0.2866	0.0242	-0.1802	0.0846	-0.6288
43	21.14	-13.71	0.3378	-0.0688	0.1632	-0.2036	0.4830	0.3514	0.0226	-0.1942	0.0644	-0.5527
44	21.14	-14.57	0.3579	-0.0692	0.1799	-0.1933	0.5025	0.2988	0.0209	-0.2031	0.0699	-0.6795
45	21.17	-15.43	0.3724	-0.0658	0.1784	-0.1766	0.4790	0.3227	0.0191	-0.2091	0.0592	-0.6479
46	21.16	-16.19	0.3989	-0.0647	0.1801	-0.1623	0.4519	0.3086	0.0184	-0.1980	0.0598	-0.6419

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CNF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION	
6		1.47	0.85	1.7	0.0	BZNOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.16	-17.07	0.4484	-0.0655	0.2007	-0.1460	0.4476	0.3227	0.0167	-0.2214	0.0517	-0.6860
48	21.17	-17.95	0.4835	-0.0644	0.2079	-0.1332	0.4300	0.2454	0.0168	-0.2298	0.0687	-0.9365
49	21.19	-18.83	0.5440	-0.0630	0.2188	-0.1159	0.4021	0.2363	0.0165	-0.2497	0.0698	-1.0570
50	21.20	-19.64	0.5915	-0.0604	0.2364	-0.1021	0.3996	0.1565	0.0171	-0.2652	0.1092	-1.6949

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AXIO-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.47	0.85	1.7	0.0	82WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	21.23	19.70	-0.8780	-0.0276	-0.3286	0.0315	0.3742	0.7590	-0.0380	0.2699	-0.0501	0.3556
2	21.23	19.32	-0.8761	-0.0278	-0.3259	0.0318	0.3720	0.7006	-0.0425	0.2581	-0.0606	0.3685
3	21.23	18.52	-0.8664	-0.0298	-0.3212	0.0344	0.3707	0.6550	-0.0512	0.2510	-0.0782	0.3833
4	21.23	17.69	-0.8932	-0.0507	-0.3138	0.0567	0.3513	0.7134	-0.0528	0.2677	-0.0739	0.3750
5	21.22	16.85	-0.9118	-0.0570	-0.3167	0.0625	0.3474	0.7704	-0.0510	0.2805	-0.0662	0.3641
6	21.23	16.09	-1.0992	-0.0611	-0.3911	0.0556	0.3558	0.7716	-0.0467	0.2769	-0.0605	0.3589
7	21.20	15.24	-1.1052	-0.0563	-0.4030	0.0510	0.3646	0.8703	-0.0337	0.2925	-0.0387	0.3361
8	21.18	14.49	-1.0513	-0.0564	-0.3920	0.0537	0.3729	0.8859	-0.0299	0.2986	-0.0337	0.3371
9	21.18	13.68	-1.0209	-0.0593	-0.3555	0.0581	0.3874	0.9155	-0.0284	0.3054	-0.0310	0.3335
10	21.17	12.92	-0.9885	-0.0471	-0.3591	0.0477	0.4037	0.9259	-0.0233	0.3091	-0.0252	0.3339
11	21.17	12.11	-0.9524	-0.0445	-0.3846	0.0468	0.4039	0.9907	-0.0093	0.3249	-0.0094	0.3280
12	21.15	11.30	-0.8623	-0.0390	-0.3645	0.0452	0.4232	0.9991	-0.0113	0.3269	-0.0113	0.3272
13	21.15	10.48	-0.7842	-0.0381	-0.3491	0.0486	0.4452	1.0382	0.0005	0.3333	0.0005	0.3211
14	21.15	9.68	-0.7064	-0.0339	-0.3263	0.0480	0.4619	1.0486	-0.0019	0.3359	-0.0019	0.3203
15	21.15	8.84	-0.6341	-0.0306	-0.3065	0.0482	0.4840	1.0385	-0.0024	0.3383	-0.0024	0.3258
16	21.14	8.03	-0.5745	-0.0287	-0.2894	0.0500	0.5038	1.0828	0.0098	0.3417	0.0090	0.3156
17	21.14	7.18	-0.4445	-0.0252	-0.2617	0.0510	0.5291	1.0622	0.0066	0.3420	0.0062	0.3220
18	21.14	6.41	-0.4162	-0.0231	-0.2301	0.0556	0.5528	1.0622	0.0049	0.3417	0.0047	0.3217
19	21.14	5.55	-0.3499	-0.0220	-0.2023	0.0628	0.5781	1.1035	0.0158	0.3453	0.0144	0.3129
20	21.14	4.72	-0.2815	-0.0190	-0.1762	0.0675	0.6258	1.1150	0.0172	0.3518	0.0154	0.3156
21	21.13	3.91	-0.2092	-0.0157	-0.1458	0.0750	0.7161	1.1441	0.0178	0.3611	0.0156	0.3156
22	21.12	3.16	-0.1532	-0.0124	-0.1237	0.0809	0.8078	1.1713	0.0212	0.3676	0.0181	0.3138
23	21.09	2.34	-0.0683	-0.0093	-0.0970	0.1361	1.4211	1.1656	0.0281	0.3583	0.0241	0.3074
24	21.08	1.56	-0.0237	-0.0069	-0.0666	0.2411	2.8100	1.1415	0.0401	0.3459	0.0351	0.3030
25	21.08	0.77	0.0305	-0.0051	-0.0388	-0.1672	-1.2733	1.1484	0.0434	0.3430	0.0378	0.2987
26	21.07	0.02	0.0790	-0.0030	-0.0089	-0.0380	-0.1124	1.1377	0.0462	0.3362	0.0406	0.2955
27	21.08	-0.78	0.1427	-0.0012	0.0145	-0.0088	0.1048	1.0244	0.0369	0.2992	0.0361	0.2920
28	21.09	-1.63	0.1971	0.0018	0.0498	0.0094	0.2525	0.8588	0.0269	0.2579	0.0313	0.3003
29	21.10	-2.44	0.2553	0.0041	0.0767	0.0161	0.3003	0.7557	0.0181	0.2306	0.0240	0.3052
30	21.10	-3.31	0.3479	0.0087	0.1037	0.0251	0.2982	0.7095	0.0145	0.2171	0.0261	0.3060
31	21.11	-4.12	0.3941	0.0128	0.1311	0.0325	0.3327	0.7363	0.0180	0.2179	0.0245	0.2960
32	21.11	-4.93	0.4609	0.0162	0.1556	0.0352	0.3376	0.6782	0.0166	0.2104	0.0245	0.3102
33	21.12	-5.66	0.5502	0.0196	0.1917	0.0357	0.3485	0.6768	0.0159	0.2066	0.0236	0.3053
34	21.12	-6.52	0.6081	0.0221	0.2202	0.0364	0.3622	0.7142	0.0153	0.2196	0.0214	0.3075
35	21.11	-7.32	0.6740	0.0250	0.2404	0.0368	0.3549	0.7783	0.0161	0.2327	0.0207	0.2990
36	21.11	-8.09	0.7406	0.0291	0.2657	0.0393	0.3507	0.7996	0.0159	0.2374	0.0199	0.2970
37	21.12	-8.93	0.8283	0.0319	0.2859	0.0385	0.3452	0.7696	0.0147	0.2338	0.0192	0.3039
38	21.12	-9.74	0.8930	0.0346	0.3104	0.0388	0.3475	0.8158	0.0162	0.2441	0.0199	0.2993
39	21.14	-10.52	0.9853	0.0402	0.3315	0.0408	0.3365	0.8289	0.0160	0.2441	0.0193	0.2945
40	21.14	-11.31	1.0597	0.0434	0.3490	0.0409	0.3293	0.8433	0.0163	0.2452	0.0194	0.2908
41	21.15	-12.10	1.1191	0.0481	0.3682	0.0430	0.3290	0.8548	0.0168	0.2518	0.0196	0.2945
42	21.16	-12.87	1.1528	0.0569	0.3886	0.0494	0.3198	0.8646	0.0159	0.2580	0.0184	0.2984
43	21.14	-13.71	1.1479	0.0597	0.3544	0.0520	0.3087	0.8875	0.0155	0.2620	0.0175	0.2953
44	21.14	-14.57	1.2015	0.0570	0.3710	0.0575	0.3087	0.9159	0.0152	0.2669	0.0166	0.2914
45	21.17	-15.43	1.2369	0.0632	0.3756	0.0511	0.3036	0.9122	0.0152	0.2686	0.0167	0.2944
46	21.16	-16.19	1.0529	0.0636	0.2958	0.0604	0.2809	0.9478	0.0142	0.2741	0.0150	0.2892

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		147	0.85	1.7	0.0	BZHO12	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.16	-17.07	1.0144	0.0562	0.2842	0.0554	0.2802	0.9647	0.0138	0.2819	0.0144	0.2922
48	21.17	-17.95	0.9843	0.0352	0.2915	0.0358	0.2961	0.9840	0.0146	0.2827	0.0148	0.2873
49	21.19	-18.83	0.9669	0.0285	0.2890	0.0295	0.2989	0.9833	0.0147	0.2886	0.0149	0.2935
50	21.20	-19.64	0.9841	0.0250	0.2914	0.0254	0.2961	1.0166	0.0150	0.2912	0.0148	0.2864

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	148	0.92	1.7	0.0	BZWF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	19.71	0.1734	-0.2137	-3.8867	8.4920	-0.0220	0.0569	-1.2328	
2	0.01	19.34	0.1571	-0.2599	-3.8245	8.4129	-0.0270	0.0567	-1.6546	
3	0.02	18.60	0.1523	-0.1002	-3.8092	8.3795	-0.0360	0.0457	-0.6580	
4	0.01	17.75	0.1164	0.0080	-3.6359	8.3365	-0.0380	0.0464	0.0691	
5	0.02	16.91	0.0870	0.1432	-3.4875	8.1291	-0.0140	0.0450	1.6460	
6	0.02	16.17	0.0622	0.1369	-3.3577	7.9083	-0.0050	0.0415	2.2013	
7	0.01	15.37	0.0327	0.1062	-3.1888	7.8609	-0.0130	0.0435	3.2483	
8	0.01	14.61	0.0350	0.1420	-3.0359	7.4318	-0.0020	0.0468	4.0571	
9	0.01	13.79	0.0032	0.1855	-2.8199	7.0485	0.0	0.0609	57.9750	
10	0.01	13.07	-0.0089	0.1834	-2.5544	6.6907	0.0	0.0671	-20.6135	
11	0.01	12.28	0.0195	0.1507	-2.4523	6.3128	0.0	0.0726	7.7282	
12	0.01	11.53	-0.0114	0.1239	-2.2970	5.9914	0.0	0.0800	-10.8737	
13	0.01	10.70	0.0092	0.0941	-2.0848	5.4924	0.0120	0.0910	10.2304	
14	0.0	9.90	-0.0159	0.1042	-1.9364	5.0757	0.0170	0.0921	-6.5572	
15	0.0	9.08	0.0053	0.0446	-1.7799	4.6855	0.0170	0.1019	8.4113	
16	0.0	8.31	-0.0046	0.0344	-1.5668	4.2412	0.0150	0.1107	-8.5739	
17	0.0	7.46	-0.0082	0.0245	-1.4671	3.8117	0.0180	0.1083	-2.9854	
18	0.0	6.70	-0.0170	0.0248	-1.2776	3.2905	0.0180	0.1140	-1.4588	
19	0.0	5.85	0.0053	-0.0164	-1.1008	2.8339	0.0110	0.1173	-3.0981	
20	0.0	5.07	0.0123	-0.0252	-0.8774	2.3082	0.0180	0.1230	-2.0504	
21	-0.01	4.25	0.0206	-0.0448	-0.7421	1.8588	0.0170	0.1221	-2.1767	
22	0.0	3.47	0.0264	-0.0450	-0.6157	1.5045	0.0120	0.1255	-1.7030	
23	-0.01	2.71	0.0149	-0.0349	-0.3916	1.0902	0.0120	0.1342	-2.6752	
24	-0.01	1.94	0.0141	-0.0217	-0.3311	0.7974	0.0130	0.1345	-1.5418	
25	0.0	1.13	0.0096	-0.0454	-0.2219	0.5036	0.0150	0.1448	-4.7333	
26	0.0	0.43	0.0104	-0.0466	-0.0881	0.2593	0.0120	0.1437	-4.4769	
27	-0.01	-0.33	0.0306	-0.0688	0.0240	-0.0246	0.0150	0.1402	-2.2497	
28	-0.01	-1.13	0.0419	-0.0886	0.1670	-0.2908	0.0090	0.1358	-2.1160	
29	0.0	-1.97	0.0333	-0.0546	0.2810	-0.6563	0.0110	0.1409	-1.6402	
30	0.0	-2.73	0.0321	-0.0719	0.4241	-0.8588	0.0090	0.1336	-2.2411	
31	-0.01	-3.59	0.0228	-0.0359	0.5264	-1.2919	0.0070	0.1318	-1.5754	
32	0.0	-4.41	0.0419	-0.0567	0.6908	-1.6820	0.0120	0.1240	-1.3523	
33	0.0	-5.20	0.0200	-0.0770	0.8048	-2.0336	0.0120	0.1163	-3.8500	
34	0.0	-5.94	0.0230	-0.0562	1.0089	-2.5853	0.0090	0.1286	-2.4435	
35	-0.02	-6.75	0.0330	-0.0742	1.1761	-3.0714	0.0150	0.1356	-2.2485	
36	0.0	-7.52	0.0234	-0.0777	1.3516	-3.4781	0.0090	0.1270	-3.3231	
37	-0.01	-8.36	0.0482	-0.1455	1.4854	-3.9653	0.0120	0.1335	-3.0183	
38	-0.01	-9.13	0.0287	-0.0982	1.6823	-4.3769	0.0080	0.1337	-3.4209	
39	-0.02	-9.94	0.0327	-0.1058	1.8592	-4.8195	0.0020	0.1370	-3.2349	
40	0.0	-10.69	0.0109	-0.0723	1.9923	-5.2160	-0.0020	0.1412	-6.6294	
41	-0.01	-11.49	0.0302	-0.1173	2.2664	-5.8446	-0.0080	0.1323	-3.8834	
42	0.0	-12.22	0.0023	-0.0262	2.3998	-6.2013	-0.0180	0.1297	-11.4000	
43	-0.01	-13.01	-0.0051	-0.0798	2.5600	-6.5536	-0.0230	0.1213	15.6588	
44	-0.02	-13.85	-0.0185	-0.0841	2.7913	-6.8745	-0.0340	0.1126	4.5459	
45	-0.01	-14.70	-0.0293	-0.0380	2.8988	-7.0460	-0.0260	0.1024	1.2962	
46	-0.01	-15.51	-0.0038	-0.0977	3.0711	-7.4071	-0.0250	0.1001	25.7052	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	148	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.0	-16.32	-0.0170	-0.0262	3.2639	-7.7870	-0.0220	0.0989	1.5412		
48	-0.03	-17.14	0.0231	-0.2293	3.4202	-8.0418	0.0010	0.0917	-9.9281		
49	-0.01	-17.95	-0.0109	-0.1337	3.5586	-7.9457	-0.0170	0.0966	12.2697		
50	-0.01	-18.86	-0.0014	-0.0890	3.7031	-8.2320	-0.0140	0.0939	63.5999		
51	-0.02	-19.63	-0.0010	-0.1266	3.8958	-8.4697	-0.0040	0.0870	126.5999		
52	-0.02	-20.25	0.0191	-0.1937	4.0129	-8.6926	0.0030	0.0836	-10.1434		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.48	0.92	1.7	0.0	0.2	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	19.71	-1.2372	-0.0375	-0.3179	0.0303	0.2569	-0.8344	0.0305	-0.3030	-0.0365	0.3632
2	0.01	19.34	-1.2172	-0.0376	-0.3202	0.0309	0.2631	-0.8206	0.0305	-0.3032	-0.0372	0.3695
3	0.02	18.60	-1.2136	-0.0370	-0.3185	0.0305	0.2624	-0.8267	0.0305	-0.3028	-0.0369	0.3662
4	0.01	17.75	-1.1906	-0.0360	-0.3155	0.0302	0.2650	-0.8237	0.0304	-0.3026	-0.0370	0.3673
5	0.02	16.91	-1.1652	-0.0380	-0.3080	0.0326	0.2643	-0.8768	0.0302	-0.2979	-0.0345	0.3397
6	0.02	16.17	-1.1247	-0.0344	-0.3089	0.0306	0.2746	-0.8538	0.0304	-0.3041	-0.0356	0.3562
7	0.01	15.37	-1.1269	-0.0223	-0.3207	0.0198	0.2846	-0.8699	0.0301	-0.3038	-0.0346	0.3492
8	0.01	14.61	-1.0756	-0.0206	-0.3066	0.0191	0.2851	-0.8733	0.0299	-0.3044	-0.0342	0.3486
9	0.01	13.79	-1.0156	-0.0199	-0.2976	0.0196	0.2931	-0.8520	0.0300	-0.3057	-0.0353	0.3588
10	0.01	13.07	-0.9688	-0.0162	-0.2901	0.0167	0.2995	-0.8774	0.0300	-0.3050	-0.0342	0.3476
11	0.01	12.28	-0.9289	-0.0097	-0.2830	0.0104	0.3047	-0.8544	0.0299	-0.3063	-0.0350	0.3585
12	0.01	11.53	-0.8762	-0.0082	-0.2724	0.0094	0.3109	-0.8322	0.0300	-0.3098	-0.0360	0.3723
13	0.01	10.70	-0.8100	-0.0063	-0.2582	0.0078	0.3188	-0.8730	0.0298	-0.3052	-0.0342	0.3496
14	0.0	9.90	-0.7532	-0.0049	-0.2434	0.0066	0.3231	-0.8674	0.0300	-0.3112	-0.0346	0.3588
15	0.0	9.08	-0.7127	-0.0038	-0.2281	0.0053	0.3200	-0.8538	0.0298	-0.3084	-0.0349	0.3612
16	0.0	8.31	-0.6597	-0.0029	-0.2150	0.0045	0.3259	-0.8459	0.0297	-0.3103	-0.0351	0.3668
17	0.0	7.46	-0.5730	-0.0017	-0.1970	0.0030	0.3449	-0.8676	0.0298	-0.3082	-0.0344	0.3552
18	0.0	6.70	-0.5231	-0.0022	-0.1724	0.0043	0.3296	-0.8974	0.0298	-0.3050	-0.0332	0.3399
19	0.0	5.85	-0.4398	-0.0033	-0.1566	0.0075	0.3559	-0.9131	0.0295	-0.3021	-0.0323	0.3308
20	0.0	5.07	-0.3760	-0.0059	-0.1285	0.0157	0.3417	-0.9473	0.0295	-0.2955	-0.0311	0.3119
21	-0.01	4.25	-0.3151	-0.0057	-0.1071	0.0181	0.3399	-0.9075	0.0296	-0.3020	-0.0326	0.3328
22	0.0	3.47	-0.4521	-0.0051	-0.0896	0.0202	0.3554	-0.9150	0.0294	-0.3029	-0.0321	0.3310
23	-0.01	2.71	-0.1785	-0.0035	-0.0689	0.0199	0.3459	-0.9055	0.0295	-0.3048	-0.0326	0.3366
24	-0.01	1.94	-0.1462	-0.0030	-0.0512	0.0205	0.3503	-0.9641	0.0295	-0.2988	-0.0306	0.3099
25	0.0	1.13	-0.0641	-0.0022	-0.0349	0.0343	0.5438	-0.9271	0.0295	-0.3014	-0.0318	0.3251
26	0.0	0.43	-0.0084	-0.0012	-0.0195	0.1428	2.3213	-0.9511	0.0297	-0.2998	-0.0312	0.3152
27	-0.01	-0.33	0.0110	-0.0004	0.0045	-0.0409	0.3150	-0.9663	0.0297	-0.2994	-0.0308	0.3098
28	-0.01	-1.13	0.0237	-0.0005	0.0203	-0.0232	0.8564	-0.9832	0.0296	-0.2964	-0.0301	0.3015
29	0.0	-1.97	0.1505	0.0002	0.0332	0.0013	0.2209	-0.9315	0.0298	-0.3058	-0.0320	0.3283
30	0.0	-2.73	0.1344	0.0	0.0618	0.0	0.4597	-0.9758	0.0299	-0.3021	-0.0306	0.3095
31	-0.01	-3.59	0.2611	0.0007	0.0715	0.0029	0.2739	-0.9585	0.0295	-0.3036	-0.0308	0.3167
32	0.0	-4.41	0.2786	-0.0007	0.0971	-0.0025	0.3486	-0.9877	0.0298	-0.3034	-0.0302	0.3072
33	0.0	-5.20	0.3096	-0.0015	0.1240	-0.0048	0.4004	-0.9285	0.0298	-0.3118	-0.0321	0.3358
34	0.0	-5.94	0.4288	-0.0021	0.1457	-0.0049	0.3397	-0.9505	0.0299	-0.3108	-0.0314	0.3270
35	-0.02	-6.75	0.5132	-0.0054	0.1672	-0.0106	0.3258	-0.9612	0.0305	-0.3139	-0.0318	0.3266
36	0.0	-7.52	0.5338	-0.0070	0.1856	-0.0131	0.3476	-0.9550	0.0300	-0.3147	-0.0314	0.3296
37	-0.01	-8.36	0.5922	-0.0082	0.2082	-0.0139	0.3516	-0.9491	0.0304	-0.3134	-0.0320	0.3302
38	-0.01	-9.13	0.6587	-0.0068	0.2219	-0.0103	0.3369	-0.9458	0.0306	-0.3178	-0.0323	0.3360
39	-0.02	-9.94	0.7277	-0.0065	0.2366	-0.0089	0.3251	-0.9134	0.0306	-0.3156	-0.0335	0.3455
40	0.0	-10.69	0.7532	-0.0042	0.2590	-0.0056	0.3438	-0.9721	0.0304	-0.3045	-0.0313	0.3133
41	-0.01	-11.49	0.8231	-0.0028	0.2738	-0.0034	0.3326	-0.9069	0.0307	-0.3130	-0.0339	0.3451
42	0.0	-12.22	0.8596	-0.0025	0.2876	-0.0030	0.3346	-0.9155	0.0300	-0.3046	-0.0328	0.3327
43	-0.01	-13.01	0.9106	0.0006	0.2932	0.0007	0.3220	-0.8994	0.0310	-0.3045	-0.0345	0.3386
44	-0.02	-13.85	0.9686	0.0033	0.2992	0.0035	0.3089	-0.8351	0.0315	-0.3143	-0.0377	0.3763
45	-0.01	-14.70	0.9940	0.0083	0.2994	0.0084	0.3012	-0.8899	0.0303	-0.3054	-0.0341	0.3432
46	-0.01	-15.51	1.0095	0.0087	0.3184	0.0086	0.3154	-0.8681	0.0299	-0.3078	-0.0352	0.3629

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	148	0.92	1.7	0.0	B2NOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.0	-16.32	1.0998	0.0090	0.3205	0.0082	0.2914	-1.0095	0.0288	-0.2808	-0.0285	0.2781
48	-0.03	-17.14	1.0754	0.0092	0.3415	0.0086	0.3176	-0.9097	0.0295	-0.2928	-0.0325	0.3219
49	-0.01	-17.95	1.1499	0.0205	0.3157	0.0179	0.2745	-0.6903	0.0267	-0.3157	-0.0387	0.4573
50	-0.01	-18.86	1.1235	0.0229	0.3334	0.0204	0.2967	-0.6633	0.0271	-0.3247	-0.0409	0.4895
51	-0.02	-19.63	1.2122	0.0208	0.3429	0.0172	0.2747	-0.6632	0.0293	-0.3162	-0.0442	0.4767
52	-0.02	-20.25	1.1946	0.0218	0.3426	0.0183	0.2868	-0.6476	0.0295	-0.3341	-0.0455	0.5159

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION				
6	148	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	0.01	19.71	-0.9831	-0.0425	-0.3584	0.0433	0.3645	-0.0131	0.0135	-0.0151	-1.0342	1.1500		
2	0.01	19.34	-0.9891	-0.0423	-0.3613	0.0428	0.3653	-0.0325	0.0159	-0.0206	-0.4907	0.6348		
3	0.02	18.60	-0.9843	-0.0392	-0.3613	0.0399	0.3670	-0.0598	0.0203	-0.0269	-0.3402	0.4837		
4	0.01	17.75	-0.9665	-0.0330	-0.3700	0.0342	0.3828	-0.0820	0.0180	-0.0320	-0.2201	0.3905		
5	0.02	16.91	-0.9792	-0.0227	-0.3814	0.0232	0.3895	-0.0814	0.0144	-0.0291	-0.1769	0.3578		
6	0.02	16.17	-0.9510	-0.0205	-0.3763	0.0215	0.3957	-0.0597	0.0058	-0.0237	-0.0980	0.3969		
7	0.01	15.37	-0.9191	-0.0191	-0.3687	0.0208	0.4011	-0.0480	-0.0006	-0.0135	0.0125	0.2811		
8	0.01	14.61	-0.8730	-0.0171	-0.3626	0.0196	0.4153	-0.0325	-0.0043	-0.0081	0.1323	0.2501		
9	0.01	13.79	-0.8404	-0.0156	-0.3521	0.0186	0.4190	-0.0493	-0.0050	-0.0040	0.1014	0.0817		
10	0.01	13.07	-0.7993	-0.0127	-0.3399	0.0159	0.4253	-0.0454	-0.0046	-0.0038	0.1024	0.0843		
11	0.01	12.28	-0.7560	-0.0112	-0.3248	0.0149	0.4296	-0.0271	-0.0060	0.0034	0.2214	-0.1243		
12	0.01	11.53	-0.6896	-0.0107	-0.3137	0.0155	0.4549	-0.0313	-0.0057	0.0039	0.1821	-0.1237		
13	0.01	10.70	-0.6607	-0.0094	-0.2977	0.0143	0.4506	-0.0334	-0.0049	0.0118	0.1467	-0.3524		
14	0.0	9.90	-0.5986	-0.0084	-0.2835	0.0141	0.4737	-0.0171	-0.0044	0.0098	0.2602	-0.5732		
15	0.0	9.08	-0.5607	-0.0077	-0.2683	0.0137	0.4785	-0.0015	-0.0050	0.0115	3.3661	-7.6668		
16	0.0	8.31	-0.4931	-0.0074	-0.2512	0.0150	0.5094	-0.0019	-0.0041	0.0123	2.1838	-6.4563		
17	0.0	7.46	-0.4282	-0.0071	-0.2296	0.0166	0.5361	0.0021	-0.0032	0.0110	-1.5473	5.2380		
18	0.0	6.70	-0.3952	-0.0078	-0.2052	0.0197	0.5191	0.0063	-0.0030	0.0098	-0.4840	1.5554		
19	0.0	5.85	-0.3219	-0.0084	-0.1786	0.0276	0.5546	0.0059	-0.0028	0.0112	-0.4830	1.8925		
20	0.0	5.07	-0.2709	-0.0101	-0.1551	0.0375	0.5728	0.0098	-0.0020	0.0107	-0.2091	1.0883		
21	-0.01	4.25	-0.2220	-0.0097	-0.1277	0.0437	0.5751	0.0049	-0.0016	0.0141	-0.3367	2.8842		
22	0.0	3.47	-0.1656	-0.0088	-0.1054	0.0534	0.6304	0.0017	-0.0014	0.0110	-0.8234	6.4509		
23	-0.01	2.71	-0.1117	-0.0072	-0.0861	0.0644	0.7710	-0.0020	-0.0009	0.0093	0.4749	-4.6668		
24	-0.01	1.94	-0.0022	-0.0071	-0.0741	3.2494	33.6968	-0.0148	-0.0005	0.0129	0.0338	-0.8695		
25	0.0	1.13	-0.0048	-0.0061	-0.0463	1.2810	9.6457	-0.0148	-0.0034	0.0129	0.0270	-0.8695		
26	0.0	0.43	0.0160	-0.0046	-0.0202	-0.2506	-1.2605	-0.0068	-0.0005	0.0126	0.0809	-1.8580		
27	-0.01	-0.33	0.0839	-0.0039	-0.0137	-0.0471	-0.1638	-0.0352	-0.0008	0.0153	0.0241	-0.4338		
28	-0.01	-1.13	0.1159	-0.0025	0.0108	-0.0220	0.0934	-0.0035	-0.0004	0.0150	0.1285	-4.2954		
29	0.0	-1.97	0.1273	-0.0011	0.0345	-0.0086	0.2712	-0.0181	-0.0012	0.0106	0.0690	-0.5839		
30	0.0	-2.73	0.1876	0.0012	0.0504	0.0064	0.2687	-0.0395	-0.0005	0.0158	0.0127	-0.4010		
31	-0.01	-3.59	0.2334	0.0035	0.0777	0.0150	0.3328	0.0072	-0.0011	0.0041	-0.1597	0.5693		
32	0.0	-4.41	0.2867	0.0028	0.0554	0.0099	0.3329	-0.0051	-0.0011	0.0056	0.2255	-1.0982		
33	0.0	-5.20	0.3683	0.0050	0.1148	0.0136	0.3118	-0.0020	-0.0005	0.0087	0.2500	-4.3668		
34	0.0	-5.94	0.4450	0.0054	0.1367	0.0121	0.3072	-0.0342	-0.0003	0.0089	0.0102	-0.2604		
35	-0.02	-6.75	0.4533	0.0056	0.1723	0.0124	0.3784	-0.0422	-0.0015	0.0098	0.0355	-0.2331		
36	0.0	-7.52	0.5193	0.0038	0.1548	0.0074	0.3752	-0.0564	-0.0006	0.0172	0.0106	-0.3051		
37	-0.01	-8.36	0.5507	0.0040	0.2211	0.0074	0.4015	-0.0053	-0.0003	0.0056	0.0660	-1.0630		
38	-0.01	-9.13	0.6506	0.0076	0.2317	0.0118	0.3561	-0.0516	-0.0004	0.0138	0.0078	-0.2676		
39	-0.02	-9.94	0.6668	0.0099	0.2480	0.0148	0.3719	-0.0535	-0.0000	0.0069	0.0009	-0.1285		
40	0.0	-10.69	0.6931	0.0117	0.2750	0.0169	0.3968	-0.0322	-0.0003	0.0016	0.0109	-0.0488		
41	-0.01	-11.49	0.8055	0.0128	0.2821	0.0159	0.3502	-0.0332	-0.0005	0.0045	0.0151	-0.1367		
42	0.0	-12.22	0.8231	0.0151	0.2594	0.0183	0.3637	-0.0528	-0.0005	0.0040	0.0095	-0.0759		
43	-0.01	-13.01	0.9108	0.0174	0.3068	0.0191	0.3368	-0.0354	-0.0004	-0.0009	0.0113	0.0253		
44	-0.02	-13.85	0.9437	0.0200	0.3194	0.0212	0.3384	-0.0528	-0.0009	0.0040	0.0180	-0.0759		
45	-0.01	-14.70	0.9456	0.0248	0.3261	0.0262	0.3448	-0.0266	-0.0009	-0.0033	0.0357	0.1227		
46	-0.01	-15.61	0.9755	0.0304	0.3388	0.0312	0.3473	-0.0396	-0.0014	0.0003	0.0353	-0.0077		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 148 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.0	-16.32	1.0179	0.0338	0.3397	0.0332	0.3337	-0.0668	-0.0015	0.0054	0.0231	-0.0835
48	-0.03	-17.14	1.0488	0.0400	0.3334	0.0381	0.3179	-0.0575	-0.0014	0.0073	0.0243	-0.1277
49	-0.01	-17.95	1.0535	0.0506	0.3261	0.0480	0.3096	-0.0199	-0.0010	0.0002	0.0528	-0.0085
50	-0.01	-18.86	1.0873	0.0488	0.3265	0.0449	0.3007	-0.0532	-0.0015	0.0041	0.0282	-0.0766
51	-0.02	-19.63	1.0698	0.0492	0.3338	0.0460	0.3120	-0.0520	-0.0015	-0.0012	0.0298	0.0236
52	-0.02	-20.25	1.1087	0.0508	0.3262	0.0458	0.2943	-0.0660	-0.0006	0.0048	0.0098	-0.0728

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	149	0.92	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.04	19.86	0.4180	-0.6263	-3.6729	7.7987	-0.2370	0.0615	-1.4981	
2	3.04	19.86	0.3677	-0.6188	-3.6726	7.7143	-0.2150	0.0666	-1.5960	
3	3.03	19.52	0.4124	-0.6604	-3.5046	7.8131	-0.2370	0.0554	-1.6012	
4	3.04	18.77	0.3404	-0.4295	-3.6878	8.0266	-0.1700	0.0281	-1.2619	
5	3.04	17.49	0.3900	-0.4681	-3.5844	7.9988	-0.1680	0.0251	-1.2001	
6	3.04	17.13	0.3383	-0.3836	-3.4573	7.8599	-0.1270	0.0207	-1.1340	
7	3.04	16.37	0.3980	-0.5023	-3.2409	7.5418	-0.1200	0.0309	-1.2618	
8	3.04	15.55	0.3947	-0.5096	-3.1662	7.2913	-0.0870	0.0251	-1.4937	
9	3.04	14.85	0.4145	-0.5754	-3.0201	7.1998	-0.0350	0.0186	-1.3679	
10	3.04	14.04	0.3698	-0.4767	-2.8352	6.9459	-0.0040	0.0202	-1.2891	
11	3.03	13.27	0.3497	-0.4605	-2.7159	6.7659	0.0240	0.0367	-1.3171	
12	3.03	12.53	0.3576	-0.5436	-2.5698	6.4313	0.0380	0.0399	-1.5202	
13	3.03	11.76	0.3701	-0.6521	-2.3833	5.9733	0.0450	0.0450	-1.7621	
14	3.02	10.92	0.3930	-0.7652	-2.1013	5.4395	0.0510	0.0594	-1.9469	
15	3.02	10.15	0.4344	-0.8532	-1.9676	5.0574	0.0480	0.0610	-1.9639	
16	3.03	9.37	0.4290	-0.9265	-1.7830	4.5849	0.0490	0.0768	-2.1563	
17	3.03	8.56	0.4565	-0.9801	-1.6343	4.1868	0.0490	0.0804	-2.1468	
18	3.02	7.72	0.4394	-0.9762	-1.4055	3.6775	0.0470	0.0886	-2.2214	
19	3.02	6.96	0.4489	-0.9935	-1.2792	3.2067	0.0440	0.0855	-2.2129	
20	3.00	6.14	0.4635	-1.0339	-1.1160	2.8062	0.0410	0.0944	-2.2305	
21	3.03	5.33	0.4724	-1.0324	-0.9435	2.3297	0.0350	0.0962	-2.1852	
22	3.02	4.48	0.4305	-0.9747	-0.8148	1.9376	0.0280	0.0976	-2.2639	
23	3.02	3.76	0.4417	-0.9944	-0.6472	1.5000	0.0220	0.1007	-2.2511	
24	3.02	3.03	0.4792	-1.0919	-0.4819	1.1257	0.0150	0.1040	-2.2784	
25	3.02	2.24	0.4856	-1.1218	-0.3537	0.8902	0.0120	0.1098	-2.3100	
26	3.01	1.44	0.4709	-1.1113	-0.2611	0.6005	0.0100	0.1206	-2.3597	
27	3.02	0.71	0.4703	-1.1144	-0.1641	0.3757	0.0140	0.1252	-2.3694	
28	2.99	-0.07	0.5102	-1.1983	-0.0328	0.0819	0.0120	0.1319	-2.3485	
29	3.00	-0.83	0.4813	-1.1438	0.1215	-0.1891	0.0130	0.1318	-2.3763	
30	3.02	-1.68	0.5039	-1.1884	0.2300	-0.4399	0.0120	0.1276	-2.3583	
31	3.00	-2.39	0.4873	-1.0882	0.3456	-0.7377	0.0120	0.1321	-2.2330	
32	3.01	-3.26	0.4773	-1.1042	0.4588	-0.9853	0.0110	0.1281	-2.3133	
33	3.00	-4.08	0.4697	-1.0596	0.6028	-1.3479	0.0110	0.1290	-2.2557	
34	3.00	-4.87	0.4694	-1.0462	0.7545	-1.7462	0.0	0.1303	-2.2285	
35	3.02	-5.62	0.4648	-1.0387	0.8971	-2.1228	-0.0050	0.1300	-2.2346	
36	3.02	-6.38	0.4747	-1.0676	1.0941	-2.6665	-0.0110	0.1250	-2.2488	
37	2.99	-7.22	0.4681	-1.0803	1.1992	-3.0468	-0.0150	0.1312	-2.3077	
38	2.99	-8.01	0.4610	-1.0604	1.4107	-3.5808	-0.0150	0.1313	-2.3000	
39	3.03	-8.81	0.4664	-1.0190	1.6010	-4.0521	-0.0170	0.1277	-2.1846	
40	3.03	-9.53	0.4858	-0.9601	1.7471	-4.4946	-0.0150	0.1294	-1.9762	
41	3.03	-10.37	0.4327	-0.8678	1.9584	-4.9425	-0.0210	0.1223	-2.0054	
42	3.00	-11.09	0.4123	-0.7993	2.1123	-5.3599	-0.0240	0.1228	-1.9383	
43	3.01	-11.85	0.3898	-0.7408	2.2515	-5.7318	-0.0280	0.1150	-1.9001	
44	3.01	-12.65	0.3660	-0.6433	2.4742	-6.1955	-0.0150	0.1152	-1.7579	
45	3.03	-13.42	0.3523	-0.6331	2.6379	-6.5326	-0.0140	0.1110	-1.7974	
46	3.02	-14.26	0.3621	-0.6539	2.7993	-6.8157	-0.0030	0.1025	-1.8060	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 149 0.92 1.7 0.0 02NOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	3.03	-15.10	0.3732	-0.7144	2.9672	-7.0527	0.0290	0.0974	-1.9145
48	3.03	-15.90	0.3738	-0.7022	3.0838	-7.1539	0.0800	0.0950	-1.8789
49	3.03	-16.72	0.3703	-0.5673	3.2888	-7.5719	0.0980	0.0960	-1.5323
50	3.02	-17.52	0.3994	-0.5962	3.4138	-7.7909	0.1140	0.0947	-1.4926
51	3.02	-18.43	0.3652	-0.5862	3.6627	-8.0624	0.1440	0.1003	-1.6054
52	3.02	-19.25	0.4943	-0.6371	3.7089	-8.0421	0.1810	0.1102	-1.5953
53	3.02	-20.00	0.4043	-0.7391	3.7902	-7.8929	0.2380	0.1458	-1.8278

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.49	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	3.04	19.86	-1.2007	-0.0149	-0.3420	0.0124	0.2848	-0.2767	0.0331	-0.2687	-0.1196	0.9709
2	3.04	19.86	-1.1839	-0.0110	-0.3355	0.0093	0.2834	-0.2868	0.0329	-0.2707	-0.1147	0.9439
3	3.03	19.52	-1.2090	-0.0142	-0.3373	0.0118	0.2790	-0.2799	0.0333	-0.2676	-0.1191	0.9557
4	3.04	18.77	-1.1769	-0.0172	-0.3340	0.0147	0.2838	-0.2917	0.0327	-0.2692	-0.1122	0.9227
5	3.04	17.99	-1.1538	-0.0163	-0.3265	0.0142	0.2830	-0.2835	0.0330	-0.2703	-0.1163	0.9531
6	3.04	17.13	-1.1066	-0.0149	-0.3126	0.0135	0.2825	-0.2874	0.0330	-0.2692	-0.1149	0.9363
7	3.04	16.37	-1.0684	-0.0134	-0.3013	0.0125	0.2820	-0.2756	0.0331	-0.2649	-0.1200	0.9611
8	3.04	15.55	-1.0245	-0.0122	-0.2898	0.0119	0.2829	-0.2836	0.0331	-0.2686	-0.1167	0.9469
9	3.04	14.85	-0.9428	-0.0116	-0.2816	0.0123	0.2986	-0.2775	0.0326	-0.2685	-0.1176	0.9672
10	3.04	14.04	-0.9033	-0.0122	-0.2681	0.0136	0.2968	-0.2807	0.0324	-0.2717	-0.1154	0.9678
11	3.03	13.27	-0.8580	-0.0117	-0.2579	0.0137	0.3006	-0.2898	0.0324	-0.2761	-0.1117	0.9458
12	3.03	12.53	-0.8198	-0.0111	-0.2436	0.0135	0.2971	-0.2968	0.0319	-0.2753	-0.1076	0.9274
13	3.03	11.76	-0.7524	-0.0101	-0.2335	0.0135	0.3104	-0.2876	0.0314	-0.2711	-0.1091	0.9425
14	3.02	10.92	-0.7371	-0.0100	-0.2108	0.0136	0.2860	-0.2981	0.0311	-0.2731	-0.1043	0.9160
15	3.02	10.15	-0.6378	-0.0074	-0.2146	0.0116	0.3365	-0.2875	0.0308	-0.2732	-0.1071	0.9500
16	3.03	9.37	-0.5985	-0.0078	-0.1967	0.0130	0.3287	-0.2957	0.0301	-0.2692	-0.1019	0.9103
17	3.03	8.56	-0.5792	-0.0081	-0.1769	0.0140	0.3054	-0.2936	0.0303	-0.2770	-0.1031	0.9434
18	3.02	7.72	-0.5129	-0.0097	-0.1672	0.0190	0.3260	-0.2890	0.0303	-0.2826	-0.1050	0.9776
19	3.02	6.96	-0.4929	-0.0098	-0.1387	0.0200	0.2815	-0.3154	0.0302	-0.2761	-0.0959	0.8752
20	3.00	6.14	-0.3537	-0.0103	-0.1338	0.0292	0.3782	-0.2919	0.0310	-0.2802	-0.1061	0.9599
21	3.03	5.33	-0.3184	-0.0103	-0.1128	0.0323	0.3543	-0.3194	0.0312	-0.2750	-0.0976	0.8609
22	3.02	4.48	-0.2678	-0.0106	-0.0924	0.0396	0.3452	-0.3216	0.0315	-0.2862	-0.0981	0.8899
23	3.02	3.76	-0.2155	-0.0094	-0.0748	0.0438	0.3471	-0.3222	0.0318	-0.2865	-0.0988	0.8892
24	3.02	3.03	-0.1522	-0.0066	-0.0663	0.0434	0.4357	-0.3252	0.0317	-0.2870	-0.0976	0.8826
25	3.02	2.24	-0.1233	-0.0039	-0.0457	0.0316	0.3705	-0.3197	0.0317	-0.2847	-0.0993	0.8904
26	3.01	1.44	-0.0814	-0.0012	-0.0338	0.0154	0.4155	-0.3371	0.0317	-0.2903	-0.0940	0.8611
27	3.02	0.71	-0.0484	-0.0007	-0.0195	0.0145	0.4035	-0.3477	0.0319	-0.2914	-0.0918	0.8381
28	2.99	-0.07	-0.0075	-0.0006	-0.0033	0.0867	0.4399	-0.3508	0.0321	-0.2932	-0.0916	0.8356
29	3.00	-0.83	0.0612	-0.0025	0.0125	-0.0417	0.2041	-0.3617	0.0322	-0.2978	-0.0891	0.8233
30	3.02	-1.68	0.0699	-0.0017	0.0338	-0.0243	0.4834	-0.3688	0.0328	-0.3007	-0.0889	0.8152
31	3.00	-2.39	0.1076	0.0005	0.0451	0.0051	0.4196	-0.3970	0.0325	-0.3008	-0.0818	0.7575
32	3.01	-3.26	0.1590	0.0025	0.0535	0.0157	0.3364	-0.3849	0.0325	-0.3112	-0.0845	0.8085
33	3.00	-4.08	0.2024	0.0029	0.0738	0.0146	0.3648	-0.4027	0.0318	-0.3110	-0.0791	0.7721
34	3.00	-4.87	0.2393	0.0044	0.0909	0.0184	0.3800	-0.4161	0.0305	-0.3110	-0.0734	0.7474
35	3.02	-5.62	0.3047	0.0042	0.1028	0.0138	0.3375	-0.3965	0.0295	-0.3168	-0.0744	0.7989
36	3.02	-6.38	0.3376	0.0025	0.1305	0.0074	0.3865	-0.4271	0.0275	-0.3153	-0.0645	0.7382
37	2.99	-7.22	0.4400	0.0013	0.1399	0.0031	0.3180	-0.4465	0.0256	-0.3124	-0.0574	0.6995
38	2.99	-8.01	0.4977	-0.0018	0.1640	-0.0036	0.3246	-0.4886	0.0237	-0.3092	-0.0406	0.6328
39	3.03	-8.81	0.5519	-0.0027	0.1828	-0.0050	0.3312	-0.4904	0.0225	-0.3157	-0.0459	0.6437
40	3.03	-9.53	0.6047	-0.0013	0.1963	-0.0022	0.3246	-0.4354	0.0211	-0.3223	-0.0486	0.7401
41	3.03	-10.37	0.6537	-0.0018	0.2076	-0.0028	0.3176	-0.6626	0.0195	-0.3009	-0.0295	0.4541
42	3.00	-11.09	0.6671	-0.0004	0.2246	-0.0007	0.3367	-0.5250	0.0181	-0.3185	-0.0346	0.6067
43	3.01	-11.85	0.7397	0.0005	0.2292	0.0007	0.3098	-0.6056	0.0165	-0.3051	-0.0273	0.5038
44	3.01	-12.65	0.8067	0.0004	0.2402	0.0006	0.2978	-0.6184	0.0143	-0.3164	-0.0232	0.5117
45	3.03	-13.42	0.8107	0.0013	0.2564	0.0017	0.3163	-0.7673	0.0128	-0.2794	-0.0167	0.3641
46	3.02	-14.26	0.8606	0.0019	0.2671	0.0022	0.3103	-0.8524	0.0108	-0.2697	-0.0127	0.3164

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	149	0.92	1.7	0.0	BZWF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	LNZ2	CH2	CB2	XCPF2	YCPF2
47	3.03	-15.10	0.9283	0.0022	0.2760	0.0024	0.2974	-0.7810	0.0091	-0.3009	-0.0117	0.3853
48	3.03	-15.90	0.9512	0.0014	0.2563	0.0015	0.3115	-0.9229	0.0081	-0.2714	-0.0088	0.2941
49	3.03	-16.72	0.9647	0.0010	0.3179	0.0010	0.3295	-0.7420	0.0096	-0.3242	-0.0129	0.4370
50	3.02	-17.52	1.0151	0.0028	0.3283	0.0028	0.3234	-0.5941	0.0090	-0.3543	-0.0152	0.5964
51	3.02	-18.43	1.0959	0.0017	0.3279	0.0016	0.2992	-0.5544	0.0076	-0.3702	-0.0137	0.6678
52	3.02	-19.25	1.1203	0.0014	0.3382	0.0013	0.3019	-0.5721	0.0075	-0.3675	-0.0131	0.6424
53	3.02	-20.00	1.2164	-0.0011	0.3402	-0.0009	0.2797	-0.5007	0.0075	-0.3764	-0.0151	0.7517

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	149	0.92	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	ACPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.04	19.86	-0.8724	-0.0428	-0.2561	0.0491	0.3394	-0.0754	-0.0575	0.0170	0.7625	-0.2251
2	3.04	19.86	-0.0418	-0.0427	-0.285C	0.0508	0.3366	-0.0324	-0.0619	0.0362	2.0968	-1.1174
3	3.03	19.52	-0.8592	-0.0436	-0.2588	0.0507	0.3478	-0.0716	-0.0576	0.0180	0.8043	-0.2520
4	3.04	18.77	-0.9585	-0.0452	-0.3314	0.0472	0.3457	-0.0820	-0.0541	0.0083	0.6602	-0.1009
5	3.04	17.99	-0.9634	-0.0458	-0.3365	0.0476	0.3493	-0.0862	-0.0551	0.0103	0.6397	-0.1192
6	3.04	17.13	-0.9726	-0.0452	-0.3444	0.0465	0.3541	-0.0657	-0.0562	0.0101	0.8540	-0.1538
7	3.04	16.37	-0.9368	-0.0436	-0.3447	0.0466	0.3679	-0.0752	-0.0557	0.0147	0.7412	-0.1960
8	3.04	15.55	-0.9382	-0.0451	-0.3383	0.0481	0.3606	-0.0604	-0.0602	0.0274	1.4911	-0.6792
9	3.04	14.85	-0.9570	-0.0337	-0.3715	0.0352	0.3882	-0.0217	-0.0598	0.0340	2.7553	-1.5654
10	3.04	14.04	-0.9324	-0.0224	-0.3764	0.0240	0.4037	-0.0395	-0.0554	0.0358	1.4035	-0.9073
11	3.03	13.27	-0.9084	-0.0162	-0.3753	0.0179	0.4131	0.0039	-0.0529	0.0394	13.5745	10.1024
12	3.03	12.53	-0.8606	-0.0135	-0.3675	0.0157	0.4270	0.0219	-0.0507	0.0475	-2.3147	2.1688
13	3.03	11.76	-0.8030	-0.0109	-0.3435	0.0136	0.4278	0.0777	-0.0477	0.0475	-0.6144	0.6112
14	3.02	10.92	-0.7301	-0.0094	-0.3364	0.0129	0.4607	0.0471	-0.0416	0.0604	-0.8841	1.4521
15	3.02	10.15	-0.6918	-0.0084	-0.3136	0.0122	0.4533	0.1076	-0.0360	0.0630	-0.3345	0.5860
16	3.03	9.37	-0.6104	-0.0059	-0.2584	0.0097	0.4888	0.1211	-0.0301	0.0658	-0.2489	0.5438
17	3.03	8.56	-0.5629	-0.0060	-0.2814	0.0107	0.5000	0.1026	-0.0227	0.0712	-0.2212	0.6938
18	3.02	7.72	-0.4969	-0.0065	-0.2585	0.0132	0.5201	0.1260	-0.0175	0.0690	-0.1389	0.5475
19	3.02	6.96	-0.4514	-0.0049	-0.2298	0.0110	0.5091	0.1105	-0.0101	0.0736	-0.0918	0.6681
20	3.00	6.14	-0.3465	-0.0057	-0.2153	0.0166	0.6212	0.1423	-0.0078	0.0712	-0.0548	0.5005
21	3.03	5.33	-0.3234	-0.0060	-0.1788	0.0187	0.5527	0.1643	-0.0022	0.0585	-0.0137	0.3563
22	3.02	4.48	-0.2452	-0.0073	-0.1555	0.0300	0.6342	0.1289	0.0018	0.0678	0.0140	0.5264
23	3.02	3.76	-0.2392	-0.0079	-0.1154	0.0332	0.4825	0.1281	0.0040	0.0687	0.0316	0.5362
24	3.02	3.03	-0.1446	-0.0077	-0.0964	0.0536	0.6665	0.1628	0.0051	0.0714	0.0313	0.4389
25	3.02	2.24	-0.0801	-0.0065	-0.0794	0.0868	0.9911	0.1625	0.0045	0.0711	0.0277	0.4378
26	3.01	1.44	-0.0278	-0.0056	-0.0542	0.2032	1.9483	0.1528	0.0052	0.0766	0.0344	0.5014
27	3.02	0.71	0.0077	-0.0058	-0.0343	-0.7531	4.4590	0.1657	0.0041	0.0783	0.0250	0.4726
28	2.99	-0.07	0.0655	-0.0038	-0.0117	-0.0588	-0.1782	0.1897	0.0023	0.0828	0.0121	0.4365
29	3.00	-0.83	0.0848	-0.0032	0.0106	-0.0363	0.1245	0.1945	0.0023	0.0817	0.0118	0.4201
30	3.02	-1.68	0.1398	-0.0017	0.0313	-0.0122	0.2238	0.2074	0.0026	0.0812	0.0125	0.3916
31	3.00	-2.39	0.2339	0.0001	0.0395	0.0004	0.1690	0.1725	0.0020	0.0868	0.0119	0.5031
32	3.01	-3.26	0.2242	0.0014	0.0767	0.0062	0.3421	0.1812	0.0020	0.0885	0.0113	0.4883
33	3.00	-4.08	0.2877	0.0021	0.0587	0.0073	0.3429	0.1844	0.0039	0.0896	0.0049	0.4861
34	3.00	-4.87	0.3604	0.0027	0.1274	0.0076	0.3535	0.2472	-0.0009	0.0824	-0.0038	0.3332
35	3.02	-5.62	0.4068	0.0023	0.1556	0.0058	0.3824	0.1795	-0.0007	0.0952	-0.0042	0.5304
36	3.02	-6.38	0.5057	0.0024	0.1776	0.0048	0.3512	0.2370	0.0002	0.0792	0.0011	0.3341
37	2.99	-7.22	0.5481	0.0027	0.2088	0.0050	0.3810	0.1828	-0.0011	0.1050	-0.0063	0.5745
38	2.99	-8.01	0.6162	0.0042	0.2299	0.0069	0.3731	0.2101	0.0002	0.0878	0.0010	0.4179
39	3.03	-8.81	0.6481	0.0057	0.2576	0.0089	0.3975	0.1896	-0.0006	0.0927	-0.0032	0.4888
40	3.03	-9.53	0.7136	0.0090	0.2690	0.0127	0.3769	0.2005	0.0006	0.0884	0.0032	0.4409
41	3.03	-10.37	0.7874	0.0109	0.2875	0.0139	0.3651	0.1475	0.0007	0.0985	0.0051	0.6681
42	3.00	-11.09	0.8398	0.0130	0.3038	0.0155	0.3618	0.1470	-0.0002	0.0980	-0.0017	0.6665
43	3.01	-11.85	0.8859	0.0154	0.3217	0.0174	0.3631	0.1925	0.0013	0.0887	0.0070	0.4610
44	3.01	-12.65	0.9791	0.0190	0.3278	0.0194	0.3347	0.2016	0.0026	0.0884	0.0129	0.4384
45	3.03	-13.42	0.9689	0.0219	0.3440	0.0226	0.3550	0.2059	0.0029	0.0808	0.0143	0.3925
46	3.02	-14.26	1.0178	0.0305	0.3495	0.0300	0.3434	0.2077	0.0031	0.0815	0.0149	0.3924

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION					
6	1.49	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED				
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4			
47	3.03	-15.10	1.0227	0.0409	0.3436	0.0400	0.3360	0.2211	0.0031	0.0820	0.0140	0.3708			
48	3.03	-15.90	1.0389	0.0472	0.3090	0.0454	0.2974	0.1731	0.0032	0.0891	0.0185	0.5146			
49	3.03	-16.72	1.0156	0.0468	0.3288	0.0461	0.3238	0.1827	0.0031	0.0877	0.0170	0.4799			
50	3.02	-17.52	1.0409	0.0496	0.3266	0.0477	0.3137	0.2166	0.0033	0.0824	0.0152	0.3803			
51	3.02	-18.43	1.0432	0.0498	0.3236	0.0478	0.3102	0.1994	0.0032	0.0898	0.0160	0.4506			
52	3.02	-19.25	1.0509	0.0527	0.3053	0.0502	0.2905	0.2083	0.0032	0.0818	0.0154	0.3927			
53	3.02	-20.00	0.9431	0.0459	0.2670	0.0487	0.2831	0.1799	0.0037	0.0857	0.0206	0.4766			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	15.0	0.92	1.7	U.0	BZWH12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.04	19.96	0.9467	-1.8233	-3.5693	6.8888	-0.2960	0.0597	-1.9260	
2	6.02	19.57	1.0012	-1.8476	-3.5770	7.0586	-0.3110	0.0481	-1.8454	
3	6.01	18.82	0.9643	-1.7939	-3.5243	7.2238	-0.2750	0.0368	-1.8604	
4	6.04	18.02	0.9212	-1.6546	-3.4681	7.2441	-0.2450	0.0227	-1.7962	
5	6.05	17.16	0.8971	-1.5179	-3.4028	7.3865	-0.1810	-0.0124	-1.6920	
6	6.05	16.39	0.8732	-1.4724	-3.3062	7.5433	-0.1460	-0.0194	-1.6863	
7	6.03	15.62	0.8979	-1.6450	-3.1014	7.1096	-0.0900	-0.0186	-1.8321	
8	6.04	14.89	0.9406	-1.7168	-2.9732	6.8401	-0.0660	-0.0208	-1.8232	
9	6.01	14.08	0.9012	-1.6826	-2.8240	6.6113	-0.0150	-0.0150	-1.8671	
10	6.04	13.32	0.9316	-1.7372	-2.6302	6.3849	0.0050	-0.0028	-1.8647	
11	6.04	12.54	0.8937	-1.6931	-2.4860	6.0440	0.0270	0.0108	-1.8945	
12	6.02	11.79	0.9176	-1.8115	-2.2464	5.5537	0.0330	0.0230	-1.9743	
13	6.03	11.03	0.9104	-1.8635	-2.1112	5.1294	0.0360	0.0389	-2.0469	
14	6.01	10.22	0.9392	-2.0128	-1.9425	4.7863	0.0460	0.0432	-2.1431	
15	6.02	9.39	0.9440	-2.0635	-1.7549	4.3426	0.0560	0.0527	-2.1859	
16	6.01	8.62	0.9952	-2.2921	-1.5765	3.9259	0.0470	0.0579	-2.3032	
17	5.99	7.80	0.9834	-2.3446	-1.4367	3.5652	0.0390	0.0641	-2.3842	
18	6.01	7.05	1.0037	-2.3800	-1.3052	3.1891	0.0390	0.0687	-2.3713	
19	5.99	6.21	1.0424	-2.5152	-1.1125	2.7273	0.0320	0.0795	-2.4129	
20	5.98	5.43	1.0055	-2.4785	-0.9296	2.3023	0.0230	0.0919	-2.4650	
21	5.99	4.56	1.0402	-2.5421	-0.7949	1.8868	0.0160	0.0952	-2.4439	
22	5.97	3.81	1.0419	-2.6065	-0.6640	1.5325	0.0100	0.1070	-2.5017	
23	6.00	3.05	1.0175	-2.5273	-0.4868	1.1735	0.0020	0.1109	-2.4839	
24	6.00	2.30	1.0210	-2.5932	-0.3596	0.9033	0.0040	0.1162	-2.5399	
25	5.97	1.52	1.0631	-2.6751	-0.2510	0.6783	0.0030	0.1180	-2.5164	
26	5.98	0.76	1.0413	-2.6636	-0.1426	0.4116	0.0040	0.1316	-2.5581	
27	5.99	0.03	1.0547	-2.7094	0.0146	0.1065	0.0140	0.1293	-2.5689	
28	5.98	-0.73	1.0722	-2.7629	0.0640	-0.1366	0.0290	0.1306	-2.5769	
29	6.00	-1.55	1.0499	-2.6786	0.2766	-0.4782	0.0310	0.1261	-2.5514	
30	5.98	-2.36	1.0119	-2.5815	0.3434	-0.6977	0.0270	0.1318	-2.5512	
31	5.98	-3.20	1.0443	-2.5588	0.4116	-0.9193	0.0290	0.1259	-2.4504	
32	6.00	-3.97	1.0123	-2.5150	0.6030	-1.2902	0.0200	0.1277	-2.4846	
33	5.99	-4.76	1.0439	-2.4873	0.7097	-1.6915	0.0140	0.1247	-2.3628	
34	5.98	-5.48	1.0298	-2.4555	0.8687	-2.0511	0.0010	0.1266	-2.3846	
35	6.00	-6.29	1.0174	-2.4402	1.0122	-2.4399	0.0010	0.1262	-2.3985	
36	5.99	-7.09	1.0367	-2.3992	1.1722	-2.8740	-0.0030	0.1208	-2.3144	
37	6.01	-7.92	0.9815	-2.2979	1.3558	-3.2350	-0.0100	0.1191	-2.3413	
38	6.02	-8.67	1.0146	-2.3103	1.5365	-3.6959	-0.0090	0.1145	-2.2771	
39	6.02	-9.49	0.9868	-2.1904	1.7019	-4.1174	-0.0020	0.1068	-2.2197	
40	6.01	-10.24	0.9700	-2.0669	1.8632	-4.4942	0.0	0.1049	-2.1308	
41	6.00	-10.98	0.9506	-2.0377	2.0653	-5.0082	0.0	0.1018	-2.1437	
42	6.01	-11.76	0.9217	-1.9253	2.1953	-5.4621	-0.0070	0.0959	-2.0889	
43	6.02	-12.59	0.8967	-1.8023	2.4248	-5.9604	-0.0030	0.0862	-2.0099	
44	6.02	-13.32	0.9266	-1.6771	2.6188	-6.3379	0.0180	0.0894	-2.0259	
45	6.02	-14.19	0.8651	-1.7810	2.7859	-6.6589	0.0300	0.0773	-2.0588	
46	6.03	-14.99	0.9097	-1.8485	2.8907	-6.7287	0.0720	0.0838	-2.0320	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		150	0.92	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	6.01	-15.80	0.8515	-1.6150	3.1197	-7.0952	0.0930	0.0960	-1.8967			
48	6.04	-16.61	0.8410	-1.5223	3.2360	-7.2450	0.1100	0.0975	-1.8102			
49	6.04	-17.46	0.8508	-1.6080	3.3272	-7.1857	0.1800	0.1168	-1.8901			
50	6.03	-18.30	0.8768	-1.7724	3.4202	-7.0439	0.2410	0.1456	-2.0215			
51	6.00	-19.13	1.0158	-2.3220	3.2909	-6.1790	0.3640	0.1897	-2.2859			
52	6.00	-19.88	1.0762	-2.4245	3.3931	-6.2781	0.3849	0.1836	-2.2529			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION		
6	150	0.92	1.7	0.0	02W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	KCPF1	YCPF1	CNF2	CH2	C02	KCPF2	YCPF2
1	6.04	19.96	-1.0648	0.0049	-0.3134	-0.0047	0.2999	-0.0599	0.0372	-0.1799	-0.6209	3.0043
2	6.02	19.57	-1.0658	0.0009	-0.3095	-0.0009	0.2904	-0.0626	0.0371	-0.1762	-0.5933	2.8156
3	6.01	18.82	-1.0312	0.0008	-0.3126	-0.0008	0.3032	-0.0224	0.0375	-0.1783	-1.6738	7.9627
4	6.04	18.02	-1.0221	-0.0004	-0.2994	0.0004	0.2929	-0.0238	0.0373	-0.1848	-1.5669	7.7660
5	6.05	17.16	-0.9818	-0.0028	-0.2913	0.0024	0.2967	-0.0306	0.0370	-0.1831	-1.2106	5.9835
6	6.05	16.39	-0.9404	-0.0053	-0.2831	0.0057	0.3010	-0.0455	0.0372	-0.1840	-0.8185	4.0453
7	6.03	15.62	-0.9512	-0.0032	-0.2613	0.0034	0.2747	-0.0133	0.0363	-0.1914	-2.7326	14.3934
8	6.04	14.89	-0.8277	-0.0038	-0.2653	0.0046	0.3205	0.0100	0.0363	-0.1926	3.6344	-19.2668
9	6.01	14.08	-0.8036	-0.0043	-0.2482	0.0053	0.3088	-0.0184	0.0357	-0.1933	-1.9426	10.5071
10	6.06	13.32	-0.7577	-0.0041	-0.2336	0.0055	0.3083	-0.0029	0.0354	-0.1879	-12.2220	64.8159
11	6.04	12.54	-0.7500	-0.0040	-0.2151	0.0053	0.2868	-0.0027	0.0351	-0.1970	-13.0162	72.9628
12	6.02	11.79	-0.6403	-0.0028	-0.2044	0.0044	0.3192	-0.0033	0.0343	-0.1915	-10.4072	58.0302
13	6.03	11.03	-0.6108	-0.0055	-0.1908	0.0091	0.3124	-0.0468	0.0338	-0.1944	-0.7232	4.1537
14	6.01	10.22	-0.5626	-0.0043	-0.1748	0.0077	0.3106	0.0147	0.0334	-0.1974	2.2717	-13.4287
15	6.02	9.39	-0.4796	-0.0080	-0.1636	0.0167	0.3411	-0.0523	0.0330	-0.1971	-0.6309	3.7692
16	6.01	8.62	-0.4643	-0.0040	-0.1460	0.0087	0.3145	-0.0648	0.0325	-0.1894	-0.5022	2.9227
17	5.99	7.80	-0.3939	-0.0016	-0.1449	0.0041	0.3677	-0.0091	0.0321	-0.1983	-3.5323	21.7947
18	6.01	7.05	-0.3488	-0.0000	-0.1327	0.0001	0.3805	-0.0888	0.0322	-0.1941	-0.3625	2.1857
19	5.99	6.21	-0.3320	0.0001	-0.1048	-0.0005	0.3156	-0.0053	0.0319	-0.2028	-6.0178	38.2766
20	5.94	5.43	-0.2560	0.0003	-0.0978	-0.0012	0.3820	-0.0446	0.0316	-0.2000	-0.7084	4.4857
21	5.99	4.56	-0.2088	0.0022	-0.0824	-0.0108	0.3945	-0.0629	0.0314	-0.2013	-0.4999	3.2013
22	5.97	3.81	-0.2309	0.0041	-0.0609	-0.0180	0.2639	-0.1145	0.0320	-0.1980	-0.2794	1.7297
23	6.00	3.05	-0.1486	0.0056	-0.0568	-0.0380	0.3823	-0.0479	0.0321	-0.2115	-0.6711	4.4167
24	6.00	2.30	-0.1198	0.0065	-0.0453	-0.0542	0.3783	-0.0954	0.0326	-0.2097	-0.3422	2.1980
25	5.97	1.52	-0.0752	0.0080	-0.0320	-0.1070	0.4250	-0.0728	0.0331	-0.2179	-0.4553	2.9939
26	5.98	0.76	-0.0504	0.0046	-0.0182	-0.0922	0.3610	-0.0597	0.0338	-0.2204	-0.5669	3.6917
27	5.99	0.03	0.0041	-0.0006	-0.0018	-0.1463	-0.4473	-0.0866	0.0341	-0.2231	-0.3943	2.5769
28	5.98	-0.73	0.0158	-0.0070	0.0152	-0.4461	0.9598	-0.1221	0.0345	-0.2274	-0.2825	1.8631
29	6.00	-1.55	0.0625	-0.0108	0.0350	-0.1728	0.5604	-0.1390	0.0345	-0.2326	-0.2482	1.6735
30	5.98	-2.36	0.1126	-0.0101	0.0410	-0.0897	0.3643	-0.2126	0.0348	-0.2308	-0.1639	1.0858
31	5.98	-3.20	0.1338	-0.0077	0.0511	-0.0579	0.3818	-0.4453	0.0349	-0.2077	-0.0783	0.4664
32	6.00	-3.97	0.1602	-0.0052	0.0627	-0.0328	0.3913	-0.4450	0.0350	-0.2206	-0.0786	0.4957
33	5.99	-4.76	0.1686	-0.0041	0.0850	-0.0246	0.5040	-0.3250	0.0343	-0.2418	-0.1056	0.7439
34	5.98	-5.48	0.2604	-0.0032	0.0874	-0.0123	0.3355	-0.4514	0.0330	-0.2296	-0.0731	0.5086
35	6.00	-6.29	0.2826	-0.0016	0.1120	-0.0057	0.3962	-0.3448	0.0313	-0.2547	-0.0907	0.7385
36	5.99	-7.09	0.3285	-0.0035	0.1254	-0.0106	0.3816	-0.3150	0.0291	-0.2603	-0.0923	0.8264
37	6.01	-7.92	0.3492	-0.0006	0.1382	-0.0017	0.3956	-0.3317	0.0273	-0.2696	-0.0823	0.8127
38	6.02	-8.67	0.3948	0.0006	0.1486	0.0015	0.3763	-0.5079	0.0258	-0.2602	-0.0508	0.5123
39	6.02	-9.49	0.4628	-0.0018	0.1675	-0.0060	0.3619	-0.2874	0.0245	-0.2954	-0.0854	1.0278
40	6.01	-10.24	0.5293	-0.0039	0.1805	-0.0074	0.3410	-0.4362	0.0221	-0.2858	-0.0506	0.6552
41	6.00	-10.98	0.5946	-0.0044	0.1933	-0.0074	0.3251	-0.4077	0.0201	-0.2973	-0.0494	0.7292
42	6.01	-11.76	0.6256	-0.0055	0.2060	-0.0088	0.3292	-0.4281	0.0183	-0.2930	-0.0427	0.6845
43	6.02	-12.59	0.6646	-0.0053	0.2267	-0.0080	0.3472	-0.3842	0.0156	-0.3119	-0.0407	0.8117
44	6.02	-13.32	0.7283	-0.0072	0.2353	-0.0099	0.3231	-0.3185	0.0141	-0.3224	-0.0444	1.0121
45	6.02	-14.19	0.7639	-0.0079	0.2497	-0.0103	0.3269	-0.3082	0.0111	-0.3303	-0.0360	1.0715
46	6.03	-14.99	0.8048	-0.0103	0.2611	-0.0129	0.3244	-0.3436	0.0087	-0.3199	-0.0253	0.9308

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 150 0.92 1.7 0.0 B2WOF12 0.6 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.01	-15.80	0.8568	-0.0097	0.2725	-0.0114	0.3180	-0.3452	0.0090	-0.3341	-0.0261	0.9677
48	6.04	-16.61	0.9009	-0.0099	0.2851	-0.0110	0.3165	-0.3072	0.0071	-0.3375	-0.0231	1.0986
49	6.04	-17.46	0.9519	-0.0099	0.3035	-0.0104	0.3188	-0.3534	0.0059	-0.3323	-0.0167	0.9403
50	6.03	-18.30	0.9896	-0.0112	0.3149	-0.0114	0.3182	-0.2951	0.0049	-0.3404	-0.0168	1.1533
51	6.00	-19.13	1.0543	-0.0142	0.3158	-0.0135	0.2995	-0.2573	0.0057	-0.3186	-0.0223	1.2384
52	6.00	-19.88	1.0664	-0.0123	0.3274	-0.0115	0.3071	-0.2567	0.0059	-0.3357	-0.0230	1.3079

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION					
6	15.0	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED				
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4			
1	6.04	19.96	-0.7385	-0.0297	-0.2470	0.0402	0.3344	0.0806	-0.0704	0.0753	-0.8739	0.9350			
2	6.02	19.57	-0.7466	-0.0379	-0.2645	0.0476	0.3321	0.0324	-0.0661	0.0532	-2.0398	1.6419			
3	6.01	18.82	-0.8401	-0.0430	-0.2905	0.0512	0.3458	0.0030	-0.0647	0.0560	-21.5628	18.8665			
4	6.04	18.02	-0.8839	-0.0443	-0.3030	0.0501	0.3428	0.0418	-0.0637	0.0448	-1.5248	1.0724			
5	6.05	17.16	-1.0189	-0.0462	-0.3274	0.0453	0.3213	-0.0277	-0.0623	0.0631	2.2487	-2.2769			
6	6.05	16.39	-1.0082	-0.0434	-0.3532	0.0430	0.3504	0.0117	-0.0551	0.0431	-4.7086	3.6836			
7	6.03	15.62	-0.9892	-0.0418	-0.3582	0.0423	0.3621	0.0622	-0.0561	0.0702	-0.9018	1.1290			
8	6.04	14.89	-0.9446	-0.0412	-0.3778	0.0436	0.3999	0.0756	-0.0547	0.0807	-0.7234	1.0673			
9	6.01	14.08	-0.9709	-0.0313	-0.3735	0.0322	0.3847	0.1230	-0.0494	0.0750	-0.4016	0.6096			
10	6.04	13.32	-0.9477	-0.0204	-0.3818	0.0216	0.4028	0.1152	-0.0425	0.0852	-0.3689	0.7395			
11	6.04	12.54	-0.9573	-0.0119	-0.3690	0.0125	0.3854	0.1337	-0.0371	0.0897	-0.2778	0.6713			
12	6.02	11.79	-0.8250	-0.0097	-0.3615	0.0118	0.4382	0.1565	-0.0302	0.0961	-0.1929	0.6144			
13	6.03	11.03	-0.7816	-0.0085	-0.3495	0.0109	0.4472	0.1732	-0.0285	0.0946	-0.1648	0.5463			
14	6.01	10.22	-0.7312	-0.0073	-0.3277	0.0100	0.4482	0.2435	-0.0217	0.0975	-0.0975	0.4006			
15	6.02	9.39	-0.6513	-0.0059	-0.3141	0.0091	0.4823	0.2203	-0.0228	0.1110	-0.1037	0.5039			
16	6.01	8.62	-0.5924	-0.0052	-0.2924	0.0089	0.4936	0.2422	-0.0176	0.1187	-0.0729	0.4901			
17	5.99	7.80	-0.5387	-0.0054	-0.2604	0.0100	0.4834	0.3130	-0.0138	0.1106	-0.0441	0.3533			
18	6.01	7.05	-0.4420	-0.0043	-0.2491	0.0097	0.5635	0.2892	-0.0112	0.1239	-0.0387	0.4263			
19	5.99	6.21	-0.4021	-0.0036	-0.2194	0.0091	0.5455	0.2826	-0.0046	0.1336	-0.0163	0.4726			
20	5.98	5.43	-0.3450	-0.0037	-0.1818	0.0109	0.5268	0.2954	-0.0009	0.1304	-0.0030	0.4415			
21	5.99	4.56	-0.2330	-0.0039	-0.1689	0.0167	0.7251	0.3567	0.0026	0.1255	0.0073	0.3517			
22	5.97	3.81	-0.2204	-0.0050	-0.1320	0.0249	0.5791	0.3438	0.0040	0.1367	0.0118	0.3975			
23	6.00	3.05	-0.1334	-0.0057	-0.1097	0.0431	0.8227	0.3822	0.0045	0.1335	0.0119	0.3492			
24	6.00	2.30	-0.1007	-0.0053	-0.0787	0.0526	0.7821	0.3604	0.0039	0.1485	0.0110	0.4120			
25	5.97	1.52	-0.0226	-0.0052	-0.0626	0.2302	2.7455	0.4139	0.0018	0.1475	0.0043	0.3564			
26	5.98	0.76	0.0327	-0.0047	-0.0385	-0.1437	-1.1775	0.4179	0.0017	0.1514	0.0042	0.3622			
27	5.99	0.03	0.0787	-0.0052	-0.0189	-0.0667	-0.2398	0.4509	-0.0004	0.1567	-0.0010	0.3474			
28	5.98	-0.73	0.0987	-0.0036	0.0086	-0.0365	0.0870	0.4393	-0.0002	0.1736	-0.0005	0.3951			
29	6.00	-1.55	0.1594	-0.0015	0.0293	-0.0094	0.1839	0.4317	-0.0007	0.1716	-0.0017	0.3974			
30	5.98	-2.36	0.1926	-0.0007	0.0335	-0.0039	0.2777	0.4663	-0.0014	0.1675	-0.0030	0.3592			
31	5.98	-3.20	0.2619	0.0005	0.0756	0.0019	0.2885	0.4828	-0.0019	0.1669	-0.0039	0.3456			
32	6.00	-3.97	0.2968	0.0006	0.1121	0.0022	0.3777	0.4461	-0.0032	0.1826	-0.0073	0.4094			
33	5.99	-4.76	0.3899	0.0010	0.1361	0.0026	0.3491	0.4799	-0.0024	0.1763	-0.0050	0.3674			
34	5.98	-5.48	0.4302	0.0003	0.1605	0.0008	0.3739	0.4644	-0.0030	0.1794	-0.0066	0.3864			
35	6.00	-6.29	0.5235	0.0016	0.1874	0.0031	0.3580	0.4474	-0.0034	0.1879	-0.0077	0.4199			
36	5.99	-7.09	0.5695	0.0029	0.2147	0.0052	0.3769	0.5053	-0.0027	0.1795	-0.0054	0.3552			
37	6.01	-7.92	0.6495	0.0045	0.2402	0.0069	0.3699	0.4829	-0.0015	0.1829	-0.0032	0.3788			
38	6.02	-8.67	0.6908	0.0056	0.2653	0.0082	0.3840	0.4999	-0.0020	0.1863	-0.0041	0.3726			
39	6.02	-9.49	0.7621	0.0077	0.2870	0.0102	0.3766	0.4932	-0.0004	0.1813	-0.0009	0.3677			
40	6.01	-10.24	0.8280	0.0084	0.3012	0.0102	0.3638	0.4584	0.0006	0.1876	0.0014	0.4093			
41	6.00	-10.98	0.8887	0.0099	0.3206	0.0111	0.3608	0.4549	0.0015	0.1893	0.0033	0.4161			
42	6.01	-11.76	0.9373	0.0121	0.3392	0.0129	0.3619	0.4868	0.0035	0.1792	0.0073	0.3681			
43	6.02	-12.59	0.9798	0.0156	0.3584	0.0160	0.3658	0.4566	0.0041	0.1825	0.0090	0.3998			
44	6.02	-13.32	1.0504	0.0269	0.3594	0.0256	0.3422	0.4755	0.0058	0.1866	0.0122	0.3925			
45	6.02	-14.19	1.0636	0.0335	0.3597	0.0315	0.3382	0.4487	0.0064	0.1833	0.0144	0.4085			
46	6.03	-14.99	1.0517	0.0468	0.3357	0.0445	0.3192	0.4385	0.0065	0.1856	0.0148	0.4233			

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		150		0.92		1.7	0.0	BZNOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	6.01	-15.80	1.0248	0.0446	0.3471	0.0435	0.3387	0.4352	0.0082	0.1771	0.0189	0.4070		
48	6.04	-16.61	1.0659	0.0502	0.3285	0.0471	0.3085	0.4205	0.0081	0.1774	0.0194	0.4219		
49	6.04	-17.46	1.0278	0.0468	0.2931	0.0455	0.2852	0.4280	0.0086	0.1770	0.0201	0.4136		
50	6.03	-18.30	0.9114	0.0460	0.2608	0.0505	0.2862	0.4315	0.0068	0.1733	0.0159	0.4016		
51	6.00	-19.13	0.6504	0.0251	0.2022	0.0387	0.3109	0.4461	0.0076	0.1755	0.0170	0.3935		
52	6.00	-19.88	0.6617	0.0250	0.2071	0.0378	0.3130	0.4468	0.0075	0.1697	0.0154	0.3486		

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	151	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.05	19.79	1.6752	-3.7331	-3.4582	6.0804	-0.3909	0.0428	-2.2285		
2	9.03	19.38	1.7107	-3.8058	-3.4210	6.0432	-0.3909	0.0407	-2.2247		
3	9.06	18.70	1.6026	-3.2835	-3.4773	6.6290	-0.3070	0.0044	-2.0489		
4	9.06	17.85	1.5952	-3.2251	-3.4091	6.5854	-0.2710	-0.0133	-2.0218		
5	9.06	17.01	1.4985	-3.0568	-3.3052	6.6300	-0.1900	-0.0168	-2.0399		
6	9.06	16.28	1.4547	-2.9615	-3.2534	6.9684	-0.1140	-0.0602	-2.0358		
7	9.05	15.49	1.5617	-3.1562	-3.0750	6.6267	-0.0830	-0.0551	-2.0210		
8	9.04	14.77	1.5414	-3.2538	-2.8705	6.3324	-0.0710	-0.0425	-2.1109		
9	9.06	13.92	1.5140	-3.1495	-2.7726	6.1884	-0.0490	-0.0442	-2.0670		
10	9.07	13.22	1.5117	-3.1063	-2.6267	5.9470	-0.0350	-0.0248	-2.0548		
11	9.06	12.39	1.4832	-3.1203	-2.4413	5.6245	-0.0020	-0.0096	-2.1038		
12	9.05	11.68	1.4953	-3.3103	-2.2107	5.2897	0.0140	0.0157	-2.2138		
13	9.03	10.83	1.5485	-3.5137	-2.1184	4.8415	0.0230	0.0213	-2.2691		
14	9.04	10.09	1.5699	-3.6057	-1.9022	4.4458	0.0490	0.0324	-2.2968		
15	9.04	9.28	1.5734	-3.6766	-1.7459	4.0370	0.0510	0.0422	-2.3367		
16	9.03	8.49	1.5672	-3.7419	-1.5648	3.6265	0.0490	0.0478	-2.3876		
17	9.03	7.66	1.5775	-3.7183	-1.4205	3.2615	0.0410	0.0589	-2.3571		
18	9.03	6.85	1.5823	-3.8270	-1.2415	2.8080	0.0330	0.0659	-2.4186		
19	9.03	6.08	1.6313	-3.9436	-1.0926	2.5164	0.0260	0.0727	-2.4187		
20	9.03	5.27	1.6072	-3.9618	-0.9117	2.0882	0.0120	0.0835	-2.4651		
21	9.00	4.48	1.6345	-4.0760	-0.7467	1.7353	0.0070	0.0831	-2.4938		
22	9.01	3.70	1.6653	-4.2151	-0.6564	1.4869	0.0	0.0877	-2.5312		
23	8.98	2.99	1.6469	-4.2284	-0.5273	1.1602	-0.0040	0.1038	-2.5675		
24	9.01	2.16	1.6736	-4.2958	-0.4076	0.9277	-0.0050	0.1079	-2.5692		
25	9.01	1.41	1.6892	-4.3356	-0.2447	0.6035	-0.0040	0.1086	-2.5667		
26	9.00	0.65	1.6759	-4.3730	-0.1429	0.3820	0.0060	0.1200	-2.6094		
27	9.01	-0.02	1.6886	-4.3927	-0.0475	0.1665	0.0120	0.1129	-2.6014		
28	8.99	-0.89	1.6902	-4.3780	0.0693	-0.1310	0.0240	0.1247	-2.5903		
29	9.01	-1.64	1.6832	-4.3452	0.1899	-0.4378	0.0320	0.1135	-2.5815		
30	9.01	-2.47	1.6641	-4.2545	0.3163	-0.6907	0.0370	0.1159	-2.5566		
31	9.00	-3.28	1.6636	-4.2288	0.4711	-1.0015	0.0390	0.1173	-2.5420		
32	9.01	-4.12	1.6454	-4.1273	0.5419	-1.3056	0.0310	0.1134	-2.5084		
33	9.01	-4.86	1.6201	-4.0459	0.7270	-1.5547	0.0260	0.1142	-2.4973		
34	9.02	-5.62	1.5940	-3.9414	0.8778	-1.9608	0.0150	0.1171	-2.4726		
35	9.02	-6.38	1.5714	-3.8167	1.0591	-2.3816	0.0050	0.1057	-2.4289		
36	9.00	-7.23	1.5780	-3.7910	1.1851	-2.6771	-0.0060	0.1106	-2.4024		
37	9.01	-8.00	1.5816	-3.7180	1.3391	-3.0606	-0.0030	0.1072	-2.3508		
38	9.03	-8.80	1.5388	-3.6061	1.5674	-3.6012	0.0010	0.1046	-2.3435		
39	9.03	-9.56	1.5678	-3.6477	1.6903	-4.0132	0.0100	0.0954	-2.3267		
40	9.02	-10.39	1.5570	-3.4836	1.8869	-4.4704	0.0250	0.0926	-2.2374		
41	9.02	-11.13	1.5330	-3.3010	1.9907	-4.7888	0.0390	0.0976	-2.1533		
42	9.05	-11.87	1.5516	-3.2531	2.2030	-5.1709	0.0700	0.0889	-2.0966		
43	9.07	-12.69	1.5726	-3.1755	2.2812	-5.5514	0.0710	0.0748	-2.0193		
44	9.07	-13.48	1.5293	-3.1069	2.5479	-6.0057	0.0820	0.0632	-2.0316		
45	9.06	-14.31	1.5157	-3.1708	2.6632	-6.2001	0.0940	0.0659	-2.0920		
46	9.03	-15.10	1.5297	-3.2364	2.8280	-6.3039	0.1340	0.0659	-2.1157		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	151	0.92	1.7	0.0	B2WDF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	9.07	-15.90	1.5099	-3.0307	3.0063	-6.6895	0.1480	0.0704	-2.0072		
48	9.06	-16.76	1.5282	-3.0414	3.1365	-6.8138	0.1670	0.0734	-1.9902		
49	9.04	-17.55	1.5259	-3.1591	3.1628	-6.6096	0.2500	0.1167	-2.0703		
50	9.06	-18.43	1.5938	-3.3752	3.2054	-6.4393	0.3200	0.1294	-2.1177		
51	9.03	-19.25	1.7111	-3.8373	3.2451	-5.8739	0.4009	0.1787	-2.2426		
52	9.03	-20.03	1.7568	-3.7833	3.3784	-6.0135	0.4489	0.1646	-2.1536		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	151	0.92	1.7	0.0	B2WFL2	0.0	0	0	0	FIXED				
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	9.05	19.79	-1.0074	0.0184	-0.2558	-0.0183	0.2936	0.0353	0.0388	-0.0806	1.1004	-2.2843		
2	9.03	19.38	-1.0074	0.0183	-0.2559	-0.0182	0.2937	0.0462	0.0388	-0.0745	0.8408	-1.6127		
3	9.06	18.70	-0.9371	0.0164	-0.2926	-0.0175	0.3122	0.0169	0.0392	-0.0745	2.3191	-4.4064		
4	9.06	17.85	-0.9118	0.0165	-0.2797	-0.0181	0.3068	0.0158	0.0390	-0.0764	2.4679	-4.8377		
5	9.06	17.01	-0.8600	0.0152	-0.2723	-0.0177	0.3166	0.0094	0.0387	-0.0817	4.1163	-8.6881		
6	9.06	16.28	-0.8380	0.0147	-0.2553	-0.0176	0.3046	0.0637	0.0386	-0.0901	0.6066	-1.4140		
7	9.05	15.49	-0.7608	0.0159	-0.2512	-0.0209	0.3302	0.0946	0.0379	-0.0910	0.4006	-0.9617		
8	9.04	14.77	-0.7927	0.0115	-0.2328	-0.0146	0.2937	0.0572	0.0375	-0.0884	0.6564	-1.5462		
9	9.06	13.92	-0.7096	0.0121	-0.2307	-0.0171	0.3252	0.0668	0.0368	-0.0908	0.5515	-1.3599		
10	9.07	13.22	-0.6583	0.0144	-0.2155	-0.0219	0.3274	0.0428	0.0360	-0.0854	0.8421	-1.9962		
11	9.06	12.39	-0.6399	0.0154	-0.1918	-0.0241	0.2998	0.0014	0.0353	-0.0845	25.2098	-60.3810		
12	9.05	11.68	-0.5748	0.0135	-0.1824	-0.0235	0.3174	-0.0025	0.0346	-0.0871	-13.8575	34.8532		
13	9.03	10.83	-0.4944	0.0125	-0.1765	-0.0253	0.3571	0.0207	0.0341	-0.0882	1.6470	-4.2610		
14	9.04	10.09	-0.4240	0.0131	-0.1578	-0.0310	0.3721	0.0123	0.0338	-0.0910	2.7515	-7.3985		
15	9.04	9.28	-0.3818	0.0111	-0.1395	-0.0291	0.3654	-0.0431	0.0338	-0.0890	-0.7841	2.0664		
16	9.03	8.49	-0.3437	0.0121	-0.1252	-0.0352	0.3663	-0.0604	0.0335	-0.0869	-0.8303	2.1525		
17	9.03	7.66	-0.3119	0.0114	-0.1081	-0.0367	0.3467	-0.0731	0.0335	-0.0909	-0.4582	1.2443		
18	9.03	6.85	-0.2519	0.0120	-0.1001	-0.0476	0.3975	-0.0693	0.0333	-0.0913	-0.4804	1.3173		
19	9.03	6.08	-0.2345	0.0156	-0.0886	-0.0667	0.3780	-0.0383	0.0333	-0.0950	-0.8706	2.4820		
20	9.03	5.27	-0.1787	0.0198	-0.0866	-0.1108	0.4849	-0.0624	0.0334	-0.1028	-0.5352	1.6473		
21	9.00	4.48	-0.1532	0.0252	-0.0702	-0.1648	0.4585	-0.0309	0.0331	-0.1076	-1.0726	3.4821		
22	9.01	3.70	-0.0981	0.0273	-0.0700	-0.2782	0.7134	-0.0158	0.0335	-0.1150	-2.1230	7.2826		
23	8.98	2.99	-0.0749	0.0282	-0.0640	-0.3764	0.8552	-0.0835	0.0338	-0.1123	-0.4053	1.3452		
24	9.01	2.16	-0.0740	0.0247	-0.0509	-0.3337	0.6886	-0.0911	0.0341	-0.1197	-0.3742	1.3146		
25	9.01	1.41	-0.0509	0.0173	-0.0319	-0.3408	0.6259	-0.0364	0.0340	-0.1320	-0.9339	3.6272		
26	9.00	0.65	0.0082	0.0051	-0.0190	0.6218	-2.3131	-0.0523	0.0343	-0.1348	-0.6567	2.5780		
27	9.01	-0.02	0.0171	-0.0024	-0.0089	-0.1432	-0.5206	-0.0615	0.0348	-0.1438	-0.5658	2.3381		
28	8.99	-0.89	0.0315	-0.0122	0.0138	-0.3872	0.4380	-0.0652	0.0351	-0.1564	-0.5302	2.3992		
29	9.01	-1.64	0.0507	-0.0231	0.0311	-0.4565	0.6133	-0.1448	0.0350	-0.1567	-0.2420	1.0825		
30	9.01	-2.47	0.1031	-0.0287	0.0414	-0.2783	0.4021	-0.2014	0.0349	-0.1586	-0.1733	0.7875		
31	9.00	-3.28	0.1297	-0.0291	0.0503	-0.2247	0.3880	-0.1917	0.0354	-0.1721	-0.1846	0.8982		
32	9.01	-4.12	0.1269	-0.0266	0.0701	-0.2100	0.5523	-0.3000	0.0359	-0.1679	-0.1198	0.5595		
33	9.01	-4.86	0.1778	-0.0239	0.0729	-0.1344	0.4103	-0.2392	0.0360	-0.1839	-0.1505	0.7688		
34	9.02	-5.62	0.2253	-0.0210	0.0803	-0.0932	0.3563	-0.2546	0.0357	-0.1950	-0.1402	0.7661		
35	9.02	-6.38	0.2110	-0.0159	0.0962	-0.0753	0.4560	-0.2013	0.0338	-0.2117	-0.1679	1.0520		
36	9.00	-7.23	0.2768	-0.0154	0.1029	-0.0558	0.3719	-0.1809	0.0323	-0.2191	-0.1788	1.2116		
37	9.01	-8.00	0.3020	-0.0159	0.1158	-0.0528	0.3835	-0.1653	0.0302	-0.2340	-0.1827	1.4161		
38	9.03	-8.80	0.3860	-0.0176	0.1317	-0.0456	0.3412	-0.1664	0.0281	-0.2420	-0.1688	1.4546		
39	9.03	-9.56	0.3933	-0.0170	0.1522	-0.0453	0.3868	-0.1678	0.0263	-0.2564	-0.1567	1.5281		
40	9.02	-10.39	0.4869	-0.0177	0.1629	-0.0363	0.3347	-0.1689	0.0255	-0.2740	-0.1510	1.6227		
41	9.02	-11.13	0.5096	-0.0162	0.1861	-0.0318	0.3652	-0.2364	0.0258	-0.2798	-0.1093	1.1839		
42	9.05	-11.87	0.5901	-0.0133	0.1944	-0.0225	0.3295	-0.2374	0.0246	-0.3034	-0.1038	1.2785		
43	9.07	-12.69	0.6269	-0.0154	0.2081	-0.0246	0.3519	-0.2328	0.0217	-0.3086	-0.0932	1.3259		
44	9.07	-13.48	0.6454	-0.0145	0.2260	-0.0225	0.3503	-0.2271	0.0187	-0.3154	-0.0823	1.3891		
45	9.06	-14.31	0.7132	-0.0137	0.2371	-0.0192	0.3325	-0.2274	0.0151	-0.3141	-0.0664	1.3816		
46	9.03	-15.10	0.8024	-0.0131	0.2387	-0.0163	0.2475	-0.2577	0.0144	-0.3121	-0.0561	1.2114		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		151	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	9.07	-15.90	0.8043	-0.0126	0.2599	-0.0157	0.3231	-0.2042	0.0150	-0.3269	-0.0737	1.6011	
48	9.06	-16.76	0.8521	-0.0134	0.2673	-0.0157	0.3136	-0.2020	0.0119	-0.3157	-0.0591	1.5629	
49	9.04	-17.55	0.8931	-0.0146	0.2652	-0.0163	0.3193	-0.2167	0.0106	-0.3170	-0.0489	1.4633	
50	9.06	-18.43	0.9259	-0.0171	0.3002	-0.0185	0.3243	-0.1239	0.0096	-0.3203	-0.0779	2.5858	
51	9.03	-19.23	0.9754	-0.0215	0.3036	-0.0221	0.3113	-0.0745	0.0097	-0.3067	-0.1308	4.1171	
52	9.03	-20.03	1.0315	-0.0183	0.3187	-0.0177	0.3090	-0.1161	0.0098	-0.3217	-0.0848	2.7716	

MARTIN MISSILE TAILS EFFECTS DATA

PGINT	TEST PART MACH RX10-6											
	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	C84	XCPF4	YCPF4
6 151 U.92 1.7 U.0 BZW0F12 0.0 U 0 U 0 FIXED												
1	9.05	19.79	-0.6416	-0.0234	-0.2252	0.0305	0.3510	0.1937	-0.0632	0.1283	-0.3262	0.6626
2	9.03	19.38	-0.6152	-0.0236	-0.2319	0.0383	0.3769	0.2344	-0.0637	0.1294	-0.2719	0.5521
3	9.06	18.70	-0.8274	-0.0421	-0.2830	0.0509	0.3420	0.1857	-0.0660	0.1137	-0.3556	0.6122
4	9.06	17.85	-0.8567	-0.0442	-0.2869	0.0516	0.3348	0.2130	-0.0636	0.1127	-0.2988	0.5290
5	9.06	17.01	-0.9217	-0.0452	-0.3236	0.0491	0.3511	0.2329	-0.0626	0.1156	-0.2687	0.4964
6	9.06	16.28	-0.9912	-0.0451	-0.3677	0.0455	0.3709	0.2264	-0.0565	0.1216	-0.2497	0.5373
7	9.05	15.49	-1.0443	-0.0431	-0.3619	0.0413	0.3465	0.2951	-0.0519	0.1160	-0.1760	0.3932
8	9.04	14.77	-0.9761	-0.0449	-0.3688	0.0460	0.3774	0.2422	-0.0529	0.1172	-0.2184	0.4839
9	9.06	13.92	-0.9515	-0.0315	-0.3880	0.0331	0.4078	0.2511	-0.0432	0.1150	-0.1720	0.4583
10	9.07	13.22	-0.9810	-0.0219	-0.3832	0.0224	0.3906	0.2607	-0.0314	0.1160	-0.1206	0.4502
11	9.06	12.39	-0.9127	-0.0144	-0.3816	0.0158	0.4181	0.2693	-0.0274	0.1219	-0.0948	0.4213
12	9.05	11.68	-0.8544	-0.0102	-0.3731	0.0119	0.4367	0.2766	-0.0264	0.1404	-0.0956	0.5074
13	9.03	10.83	-0.8427	-0.0076	-0.3389	0.0090	0.4021	0.3379	-0.0255	0.1466	-0.0756	0.4338
14	9.04	10.09	-0.7448	-0.0075	-0.3335	0.0101	0.4477	0.3468	-0.0232	0.1609	-0.0670	0.4638
15	9.04	9.28	-0.6447	-0.0062	-0.3171	0.0096	0.4919	0.3961	-0.0198	0.1593	-0.0500	0.4021
16	9.03	8.49	-0.6143	-0.0062	-0.2896	0.0102	0.4714	0.4130	-0.0152	0.1637	-0.0368	0.3964
17	9.03	7.66	-0.5498	-0.0064	-0.2684	0.0117	0.4882	0.4099	-0.0100	0.1742	-0.0245	0.4249
18	9.03	6.85	-0.4830	-0.0055	-0.2387	0.0114	0.4936	0.4933	-0.0059	0.1599	-0.0121	0.3241
19	9.03	6.08	-0.4203	-0.0045	-0.2164	0.0108	0.5149	0.4444	-0.0007	0.1603	-0.0016	0.4057
20	9.03	5.27	-0.3227	-0.0055	-0.1917	0.0170	0.5441	0.4628	0.0007	0.1844	0.0015	0.3985
21	9.00	4.48	-0.2975	-0.0049	-0.1512	0.0165	0.5083	0.5098	0.0019	0.1898	0.0038	0.3722
22	9.01	3.70	-0.2333	-0.0036	-0.1304	0.0154	0.5591	0.5529	0.0011	0.1925	0.0020	0.3482
23	8.98	2.99	-0.1312	-0.0027	-0.1118	0.0210	0.8523	0.5366	0.0017	0.2030	0.0032	0.3783
24	9.01	2.16	-0.1024	-0.0033	-0.0787	0.0322	0.7888	0.5805	0.0010	0.2080	0.0018	0.3584
25	9.01	1.41	-0.0420	-0.0034	-0.0546	0.0821	1.3070	0.5966	0.0010	0.2230	0.0018	0.3738
26	9.00	0.65	0.0266	-0.0046	-0.0333	-0.1729	-1.2533	0.6057	0.0004	0.2273	0.0007	0.3753
27	9.01	-0.02	0.0833	-0.0037	-0.0166	-0.0444	-0.1998	0.6695	0.0008	0.2287	0.0012	0.3416
28	8.99	-0.89	0.1207	-0.0046	0.0140	-0.0335	0.1161	0.6729	-0.0004	0.2411	-0.0006	0.3583
29	9.01	-1.64	0.1927	-0.0033	0.0370	-0.0174	0.1921	0.7227	-0.0009	0.2352	-0.0012	0.3255
30	9.01	-2.47	0.2359	-0.0030	0.0614	-0.0127	0.2603	0.6874	-0.0011	0.2518	-0.0016	0.3664
31	9.00	-3.28	0.2640	-0.0021	0.0578	-0.0081	0.3703	0.7145	-0.0011	0.2498	-0.0015	0.3496
32	9.01	-4.12	0.3451	-0.0002	0.1190	-0.0006	0.3448	0.6969	-0.0021	0.2584	-0.0031	0.3708
33	9.01	-4.86	0.3887	0.0017	0.1438	0.0044	0.3700	0.7561	-0.0022	0.2540	-0.0029	0.3360
34	9.02	-5.62	0.4832	0.0022	0.1708	0.0047	0.3535	0.7079	-0.0029	0.2643	-0.0041	0.3733
35	9.02	-6.38	0.5471	0.0027	0.2000	0.0049	0.3656	0.7020	-0.0029	0.2648	-0.0041	0.3772
36	9.00	-7.23	0.5895	0.0041	0.2281	0.0070	0.3870	0.6921	-0.0029	0.2683	-0.0042	0.3877
37	9.01	-8.00	0.6724	0.0057	0.2463	0.0085	0.3664	0.7334	-0.0022	0.2605	-0.0030	0.3552
38	9.03	-8.80	0.7105	0.0059	0.2766	0.0083	0.3894	0.7292	-0.0022	0.2609	-0.0030	0.3578
39	9.03	-9.56	0.8208	0.0084	0.2983	0.0102	0.3634	0.7735	-0.0006	0.2651	-0.0008	0.3428
40	9.02	-10.39	0.8389	0.0087	0.3237	0.0104	0.3859	0.7650	0.0004	0.2654	0.0005	0.3469
41	9.02	-11.13	0.9290	0.0110	0.3308	0.0119	0.3560	0.7427	0.0011	0.2634	0.0015	0.3546
42	9.05	-11.87	0.9621	0.0125	0.3574	0.0130	0.3715	0.7677	0.0011	0.2723	0.0015	0.3547
43	9.07	-12.69	0.9941	0.0160	0.3691	0.0161	0.3694	0.7679	0.0032	0.2657	0.0042	0.3460
44	9.07	-13.48	1.0753	0.0255	0.3664	0.0237	0.3407	0.7690	0.0051	0.2655	0.0067	0.3453
45	9.06	-14.31	1.0448	0.0397	0.3660	0.0380	0.3503	0.7514	0.0068	0.2590	0.0091	0.3447
46	9.03	-15.10	1.0400	0.0474	0.3462	0.0456	0.3329	0.7565	0.0078	0.2590	0.0104	0.3423

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.51	0.92	1.7	0.0	82HOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.07	-15.90	1.0737	0.0463	0.3514	0.0431	0.3273	0.7691	0.0095	0.2603	0.0124	0.3384
48	9.06	-16.76	1.0631	0.0507	0.3367	0.0477	0.3168	0.7723	0.0091	0.2530	0.0118	0.3276
49	9.04	-17.55	1.0183	0.0475	0.2745	0.0466	0.2745	0.7328	0.0080	0.2650	0.0109	0.3616
50	9.06	-18.43	0.8877	0.0458	0.2605	0.0516	0.2935	0.7315	0.0101	0.2655	0.0139	0.3630
51	9.03	-19.25	0.6893	0.0246	0.2116	0.0357	0.3070	0.7452	0.0090	0.2663	0.0121	0.3574
52	9.03	-20.03	0.6961	0.0245	0.2122	0.0353	0.3049	0.7115	0.0098	0.2675	0.0138	0.3759

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	152	0.92	1.7	0.0	B2WDF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	12.10	19.82	2.2259	-4.6371	-3.5457	6.1539	-0.3170	0.0176	-2.0832	
2	12.11	19.43	2.2701	-4.5990	-3.4670	6.1727	-0.3160	0.0147	-2.0259	
3	12.11	18.63	2.2433	-4.5364	-3.4024	6.0421	-0.2620	0.0126	-2.0222	
4	12.09	17.84	2.2843	-4.6008	-3.3809	6.0450	-0.2740	0.0015	-2.0141	
5	12.10	17.03	2.2270	-4.5336	-3.2479	5.9898	-0.2150	-0.0111	-2.0357	
6	12.08	16.23	2.1689	-4.4103	-3.2457	6.2017	-0.1260	-0.0309	-2.0334	
7	12.10	15.50	2.1408	-4.3330	-3.1070	6.1496	-0.0700	-0.0351	-2.0240	
8	12.09	14.70	2.1755	-4.5865	-2.9208	5.9429	-0.0360	-0.0271	-2.1082	
9	12.09	13.90	2.1489	-4.5923	-2.7850	5.7894	0.0140	-0.0340	-2.1370	
10	12.09	13.12	2.1246	-4.5013	-2.6506	5.5115	0.0320	-0.0169	-2.1106	
11	12.06	12.39	2.0989	-4.6533	-2.4507	5.2957	0.0690	-0.0038	-2.2170	
12	12.05	11.68	2.1336	-4.7568	-2.2177	4.9086	0.0900	-0.0002	-2.2295	
13	12.06	10.84	2.1892	-4.9307	-2.0511	4.4054	0.0580	0.0135	-2.2522	
14	12.06	10.03	2.2125	-4.9663	-1.8507	4.0067	0.0800	0.0272	-2.2446	
15	12.05	9.21	2.2165	-5.1038	-1.7248	3.6745	0.0790	0.0364	-2.3027	
16	12.06	8.42	2.2288	-5.1901	-1.5418	3.3044	0.0760	0.0357	-2.3286	
17	12.06	7.60	2.2241	-5.2475	-1.3637	2.9001	0.0550	0.0453	-2.3594	
18	12.05	6.84	2.2567	-5.4011	-1.2320	2.5747	0.0550	0.0569	-2.3934	
19	12.03	6.05	2.3024	-5.5820	-1.0617	2.2142	0.0420	0.0574	-2.4244	
20	12.01	5.20	2.3097	-5.6943	-0.8847	1.7655	0.0330	0.0592	-2.4654	
21	12.04	4.43	2.3022	-5.7437	-0.7160	1.4693	0.0170	0.0609	-2.4949	
22	12.04	3.61	2.3321	-5.8196	-0.6138	1.1783	0.0120	0.0680	-2.4954	
23	12.02	2.92	2.3371	-5.8756	-0.4861	0.9526	0.0250	0.0805	-2.5141	
24	12.01	2.08	2.3089	-5.8871	-0.3924	0.6601	0.0180	0.0880	-2.5497	
25	12.01	1.33	2.3264	-5.9216	-0.2452	0.4682	0.0350	0.1002	-2.5454	
26	12.03	0.60	2.3561	-5.9502	-0.1944	0.2831	0.0210	0.0993	-2.5254	
27	12.03	-0.14	2.3444	-5.8918	-0.1147	0.1496	0.0090	0.0976	-2.5131	
28	12.03	-0.95	2.3047	-5.8392	0.0476	-0.0576	0.0230	0.1083	-2.5336	
29	12.02	-1.73	2.3326	-5.8653	0.1519	-0.1726	0.0270	0.1050	-2.5145	
30	12.00	-2.58	2.3069	-5.8163	0.2907	-0.4509	0.0390	0.0991	-2.5213	
31	12.02	-3.37	2.3140	-5.8033	0.3455	-0.6306	0.0240	0.0941	-2.5025	
32	12.03	-4.14	2.3019	-5.7503	0.6262	-1.0987	0.0220	0.0975	-2.4981	
33	12.04	-4.90	2.2756	-5.6635	0.7282	-1.3514	0.0060	0.0926	-2.4888	
34	12.04	-5.71	2.2653	-5.5801	0.8240	-1.7075	-0.0090	0.0953	-2.4633	
35	12.01	-6.46	2.2036	-5.4637	1.0077	-2.1436	-0.0190	0.0911	-2.4794	
36	12.05	-7.27	2.2095	-5.2790	1.2128	-2.5589	-0.0340	0.0941	-2.3892	
37	12.05	-8.08	2.1910	-5.2291	1.3058	-2.8290	-0.0290	0.0946	-2.3866	
38	12.06	-8.88	2.1951	-5.1099	1.5181	-3.3152	-0.0310	0.0830	-2.3278	
39	12.04	-9.66	2.1477	-4.9216	1.6704	-3.6104	-0.0350	0.0748	-2.2915	
40	12.06	-10.45	2.1311	-4.7993	1.8820	-4.1105	-0.0280	0.0678	-2.2520	
41	12.06	-11.22	2.1493	-4.6190	2.0900	-4.6470	-0.0110	0.0695	-2.2475	
42	12.06	-11.97	2.1317	-4.6342	2.2296	-4.8732	0.0130	0.0791	-2.1739	
43	12.06	-12.76	2.1009	-4.6171	2.3538	-5.1171	0.0620	0.0633	-2.1170	
44	12.09	-13.54	2.1860	-4.5052	2.4642	-5.4546	0.0940	0.0517	-2.0628	
45	12.08	-14.37	2.2914	-4.5968	2.6047	-5.5753	0.1450	0.0624	-2.0061	
46	12.10	-15.27	2.2526	-4.6984	2.7331	-5.7941	0.1940	0.0606	-2.0680	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	PACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	152	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP
47	12.08	-16.02	2.2356	-4.4237	2.9551	-6.2479	0.2140	0.0432	-1.9787
48	12.07	-16.83	2.1902	-4.5211	3.0264	-6.0187	0.2530	0.0727	-2.0642
49	12.08	-17.68	2.2291	-4.6895	3.0447	-5.8514	0.3300	0.0919	-2.1038
50	12.07	-18.57	2.2445	-4.7481	3.1569	-5.7805	0.3750	0.1116	-2.1154
51	12.06	-19.34	2.3214	-5.0147	3.2000	-5.5478	0.4339	0.1345	-2.1602
52	12.07	-20.13	2.3513	-5.0756	3.3588	-5.6801	0.4869	0.1226	-2.1586

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6	152	0.92	1.7	0.0	82WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	12.10	19.82	-0.8423	0.0331	-0.2784	-0.0393	0.3305	0.2072	0.0391	0.0003	0.1887	0.0017
2	12.11	19.43	-0.8530	0.0310	-0.2775	-0.0363	0.3254	0.2522	0.0386	-0.0080	0.1530	-0.0316
3	12.11	18.63	-0.7781	0.0351	-0.2614	-0.0451	0.3359	0.2529	0.0379	-0.0069	0.1498	-0.0274
4	12.09	17.84	-0.7956	0.0328	-0.2523	-0.0413	0.3171	0.1952	0.0383	0.0014	0.1962	0.0074
5	12.10	17.03	-0.7867	0.0323	-0.2380	-0.0411	0.3026	0.1912	0.0375	-0.0001	0.1964	-0.0005
6	12.08	16.23	-0.6932	0.0318	-0.2354	-0.0459	0.3396	0.1603	0.0373	0.0017	0.2658	0.0125
7	12.10	15.50	-0.6517	0.0334	-0.2106	-0.0513	0.3231	0.2063	0.0367	-0.0057	0.1779	-0.0274
8	12.09	14.70	-0.5839	0.0317	-0.2113	-0.0544	0.3618	0.1334	0.0357	0.0037	0.2676	0.0274
9	12.09	13.90	-0.5316	0.0316	-0.1889	-0.0595	0.3554	0.1553	0.0357	-0.0049	0.2302	-0.0312
10	12.09	13.12	-0.5303	0.0276	-0.1725	-0.0521	0.3253	0.1135	0.0354	-0.0024	0.3118	-0.0210
11	12.06	12.39	-0.4196	0.0269	-0.1575	-0.0642	0.3754	0.1375	0.0346	-0.0069	0.2516	-0.0501
12	12.05	11.68	-0.3495	0.0239	-0.1510	-0.0684	0.4319	0.1328	0.0345	-0.0079	0.2597	-0.0599
13	12.06	10.84	-0.3512	0.0203	-0.1407	-0.0579	0.4007	0.1041	0.0347	-0.0028	0.3333	-0.0270
14	12.06	10.03	-0.2965	0.0208	-0.1217	-0.0703	0.4104	0.0668	0.0342	-0.0034	0.5126	-0.0515
15	12.05	9.21	-0.2512	0.0232	-0.1110	-0.0523	0.4419	0.0427	0.0341	-0.0037	0.7985	-0.0860
16	12.06	8.42	-0.1875	0.0260	-0.1058	-0.1386	0.5641	0.0727	0.0338	-0.0109	0.4655	-0.1496
17	12.06	7.60	-0.1919	0.0278	-0.0973	-0.1448	0.5073	0.0473	0.0336	-0.0120	0.7102	-0.2545
18	12.05	6.84	-0.1312	0.0335	-0.0846	-0.2553	0.6450	0.0534	0.0333	-0.0181	0.6244	-0.3391
19	12.03	6.05	-0.1295	0.0371	-0.0721	-0.2864	0.5572	0.0988	0.0339	-0.0254	0.3431	-0.2569
20	12.01	5.20	-0.0749	0.0423	-0.0644	-0.5647	0.8606	0.0405	0.0338	-0.0203	0.8344	-0.5014
21	12.04	4.43	-0.0397	0.0461	-0.0602	-1.1623	1.5171	0.0637	0.0339	-0.0299	0.5321	-0.4690
22	12.04	3.61	-0.0181	0.0471	-0.0507	-2.6045	2.8028	0.0755	0.0344	-0.0394	0.4562	-0.5224
23	12.02	2.92	0.0145	0.0414	-0.0405	2.8581	-2.7909	0.0784	0.0348	-0.0466	0.4438	-0.5941
24	12.01	2.08	0.0106	0.0307	-0.0290	2.9004	-2.7328	0.0243	0.0349	-0.0528	1.4380	-2.1730
25	12.01	1.33	0.0491	0.0173	-0.0160	0.3523	-0.3267	-0.0064	0.0353	-0.0567	-5.5225	8.8645
26	12.03	0.60	-0.0181	0.0068	-0.0021	-0.3784	0.1177	0.0218	0.0359	-0.0681	1.6465	-3.1255
27	12.03	-0.14	0.0007	-0.0038	-0.0076	-5.4990	-10.8096	-0.0313	0.0360	-0.0725	-1.1500	2.3172
28	12.03	-0.95	0.0105	-0.0175	0.0139	-1.6664	1.3237	-0.0142	0.0355	-0.0879	-2.4996	6.1924
29	12.02	-1.73	0.0179	-0.0329	0.0247	-1.8377	1.3779	-0.0728	0.0357	-0.0951	-0.4903	1.3071
30	12.00	-2.58	0.0178	-0.0516	0.0404	-2.3367	2.2714	-0.0744	0.0355	-0.1079	-0.4777	1.4502
31	12.02	-3.37	0.0197	-0.0476	0.0464	-2.4158	2.3535	-0.0753	0.0357	-0.1172	-0.4747	1.5563
32	12.03	-4.14	0.0814	-0.0493	0.0510	-0.6062	0.6268	-0.0949	0.0354	-0.1244	-0.3730	1.3111
33	12.04	-4.90	0.0884	-0.0444	0.0603	-0.5022	0.6828	-0.0608	0.0351	-0.1349	-0.5772	2.2197
34	12.04	-5.71	0.0987	-0.0401	0.0704	-0.4062	0.7132	-0.1007	0.0352	-0.1363	-0.3495	1.3541
35	12.01	-6.46	0.1659	-0.0369	0.0720	-0.2224	0.4339	-0.0348	0.0351	-0.1571	-1.0084	4.5142
36	12.05	-7.27	0.1799	-0.0339	0.0847	-0.1884	0.4711	-0.0255	0.0339	-0.1645	-1.3242	6.4509
37	12.05	-8.08	0.2029	-0.0281	0.0952	-0.1385	0.4692	-0.0221	0.0312	-0.1789	-1.4138	8.0979
38	12.06	-8.88	0.2333	-0.0265	0.1117	-0.1136	0.4789	-0.0430	0.0296	-0.1888	-0.6882	4.3914
39	12.04	-9.66	0.2924	-0.0253	0.1187	-0.0867	0.4060	-0.0122	0.0278	-0.2014	-2.2783	16.5135
40	12.06	-10.45	0.3784	-0.0290	0.1246	-0.0767	0.3293	-0.0707	0.0265	-0.2044	-0.3755	2.8919
41	12.06	-11.22	0.3924	-0.0323	0.1504	-0.0824	0.3832	0.0226	0.0248	-0.2299	1.0971	-10.1756
42	12.06	-11.97	0.4395	-0.0298	0.1702	-0.0678	0.3871	-0.0660	0.0220	-0.2369	-0.3333	3.5908
43	12.06	-12.76	0.5234	-0.0271	0.1891	-0.0518	0.3613	-0.0951	0.0204	-0.2622	-0.2150	2.7580
44	12.09	-13.54	0.5930	-0.0282	0.1971	-0.0475	0.3324	-0.1227	0.0180	-0.2677	-0.1467	2.1824
45	12.08	-14.37	0.6249	-0.0264	0.2194	-0.0423	0.3511	-0.1088	0.0162	-0.2908	-0.1489	2.6733
46	12.10	-15.27	0.7116	-0.0245	0.2316	-0.0344	0.3255	-0.0960	0.0161	-0.2878	-0.1677	2.9988

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION		
6		152	0.92	1.7	0.0	BZWOF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	12.08	-16.02	0.7674	-0.0231	0.2471	-0.0301	0.3220	-0.1364	0.0169	-0.2968	-0.1239	2.1763	
48	12.07	-16.83	0.7425	-0.0278	0.2690	-0.0375	0.3623	-0.0800	0.0122	-0.2749	-0.1531	3.4370	
49	12.08	-17.68	0.8304	-0.0259	0.2703	-0.0312	0.3255	-0.0969	0.0118	-0.2827	-0.1223	2.9184	
50	12.07	-18.57	0.8829	-0.0296	0.2764	-0.0336	0.3131	-0.0351	0.0112	-0.2777	-0.3205	7.9144	
51	12.06	-19.34	0.8738	-0.0324	0.2964	-0.0371	0.3392	0.0028	0.0112	-0.2746	4.0171	-98.0953	
52	12.07	-20.13	0.9809	-0.0285	0.3010	-0.0290	0.3068	-0.0135	0.0118	-0.2949	-0.8776	21.8517	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	152	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CONF3	CH3	CB3	XCPF3	YCPF3	CONF4	CH4	CB4	XCPF4	YCPF4
1	12.10	19.82	-0.7662	-0.0265	-0.2887	0.0346	0.3768	0.3817	-0.0633	0.1643	-0.1659	0.4304
2	12.11	19.43	-0.7843	-0.0267	-0.2871	0.0341	0.3661	0.3697	-0.0641	0.1722	-0.1645	0.4417
3	12.11	18.63	-0.8513	-0.0363	-0.2921	0.0426	0.3431	0.3487	-0.0645	0.1699	-0.1849	0.4872
4	12.09	17.84	-0.8946	-0.0440	-0.3031	0.0492	0.3388	0.3161	-0.0649	0.1594	-0.2054	0.5043
5	12.10	17.03	-0.9617	-0.0462	-0.3257	0.0481	0.3386	0.3274	-0.0626	0.1618	-0.1913	0.4941
6	12.08	16.23	-1.0422	-0.0437	-0.3644	0.0419	0.3496	0.3693	-0.0570	0.1529	-0.1544	0.4139
7	12.10	15.50	-1.0353	-0.0414	-0.3865	0.0400	0.3733	0.4450	-0.0515	0.1542	-0.1157	0.3465
8	12.09	14.70	-1.0030	-0.0459	-0.3896	0.0457	0.3884	0.3963	-0.0511	0.1809	-0.1289	0.4563
9	12.09	13.90	-1.0301	-0.0327	-0.3890	0.0317	0.3777	0.4606	-0.0440	0.1747	-0.0955	0.3792
10	12.09	13.12	-0.9867	-0.0215	-0.4015	0.0218	0.4073	0.4583	-0.0375	0.1721	-0.0819	0.3755
11	12.06	12.39	-0.9389	-0.0165	-0.3889	0.0176	0.4141	0.4636	-0.0314	0.1955	-0.0677	0.4216
12	12.05	11.68	-0.9371	-0.0111	-0.3693	0.0119	0.3937	0.5148	-0.0276	0.1894	-0.0537	0.3680
13	12.06	10.84	-0.8127	-0.0079	-0.3693	0.0097	0.4544	0.5004	-0.0265	0.1926	-0.0529	0.3850
14	12.06	10.03	-0.8067	-0.0081	-0.3318	0.0101	0.4113	0.5470	-0.0194	0.1959	-0.0355	0.3581
15	12.05	9.21	-0.7462	-0.0075	-0.3091	0.0101	0.4143	0.5554	-0.0159	0.2082	-0.0287	0.3748
16	12.06	8.42	-0.6514	-0.0072	-0.2525	0.0110	0.4491	0.6106	-0.0111	0.2071	-0.0183	0.3391
17	12.06	7.60	-0.5482	-0.0065	-0.2680	0.0119	0.4888	0.6146	-0.0083	0.2104	-0.0135	0.3423
18	12.05	6.84	-0.5018	-0.0066	-0.2358	0.0131	0.4699	0.6114	-0.0028	0.2236	-0.0046	0.3658
19	12.03	6.05	-0.4409	-0.0067	-0.2194	0.0153	0.4976	0.6491	-0.0014	0.2246	-0.0022	0.3460
20	12.01	5.20	-0.3200	-0.0070	-0.1888	0.0219	0.5900	0.6825	-0.0004	0.2270	-0.0007	0.3326
21	12.04	4.43	-0.2508	-0.0077	-0.1618	0.0307	0.6454	0.7195	0.0019	0.2299	0.0026	0.3196
22	12.04	3.61	-0.2076	-0.0056	-0.1316	0.0272	0.6338	0.7068	0.0022	0.2475	0.0032	0.3502
23	12.02	2.92	-0.1324	-0.0058	-0.1073	0.0438	0.8106	0.7765	0.0033	0.2454	0.0042	0.3161
24	12.01	2.08	-0.1094	-0.0038	-0.0768	0.0347	0.7025	0.7476	0.0037	0.2571	0.0047	0.3223
25	12.01	1.33	-0.0884	-0.0030	-0.0602	0.3630	7.1665	0.8098	0.0036	0.2739	0.0044	0.3383
26	12.03	0.60	0.0205	-0.0037	-0.0283	-0.1805	-1.3790	0.8182	0.0029	0.2878	0.0036	0.3518
27	12.03	-0.14	0.0439	-0.0026	0.0002	-0.0604	0.0052	0.8746	0.0030	0.2427	0.0034	0.3233
28	12.03	-0.45	0.1086	-0.0035	0.0267	-0.0322	0.2457	0.8517	0.0029	0.2998	0.0034	0.3520
29	12.02	-1.73	0.2061	-0.0021	0.0419	-0.0104	0.2032	0.4156	0.0022	0.2986	0.0025	0.3261
30	12.00	-2.58	0.2228	-0.0019	0.0751	-0.0085	0.3373	0.9505	0.0005	0.3065	0.0005	0.3225
31	12.02	-3.37	0.2839	-0.0004	0.1024	-0.0014	0.3607	0.9693	0.0009	0.3068	0.0009	0.3165
32	12.03	-4.14	0.3343	0.0016	0.1313	0.0049	0.3927	0.9452	0.0	0.3174	0.0	0.3358
33	12.04	-4.90	0.4288	0.0033	0.1526	0.0078	0.3558	0.9809	0.0004	0.3136	0.0004	0.3197
34	12.04	-5.71	0.4848	0.0046	0.1862	0.0096	0.3842	0.9460	0.0003	0.3248	0.0004	0.3434
35	12.01	-6.46	0.5677	0.0050	0.2128	0.0088	0.3748	0.9662	-0.0007	0.3250	-0.0008	0.3363
36	12.05	-7.27	0.6040	0.0064	0.2486	0.0107	0.4107	0.9867	-0.0014	0.3233	-0.0015	0.3276
37	12.05	-8.08	0.6775	0.0071	0.2694	0.0106	0.3977	1.0239	0.0003	0.3224	0.0003	0.3149
38	12.06	-8.88	0.7596	0.0084	0.2903	0.0111	0.3727	0.9829	0.0011	0.3361	0.0012	0.3420
39	12.04	-9.66	0.8310	0.0091	0.3121	0.0109	0.3756	0.9665	0.0014	0.3304	0.0014	0.3418
40	12.06	-10.45	0.8440	0.0115	0.3415	0.0137	0.4046	1.0244	0.0014	0.3227	0.0014	0.3150
41	12.06	-11.22	0.9341	0.0141	0.3616	0.0151	0.3804	1.0101	0.0023	0.3311	0.0023	0.3278
42	12.06	-11.97	1.0143	0.0168	0.3583	0.0166	0.3532	0.9964	0.0046	0.3340	0.0047	0.3352
43	12.06	-12.76	1.0348	0.0227	0.3713	0.0219	0.3588	1.0122	0.0058	0.3365	0.0057	0.3324
44	12.09	-13.54	1.0566	0.0341	0.3745	0.0323	0.3544	0.9873	0.0074	0.3388	0.0075	0.3431
45	12.08	-14.37	1.1084	0.0376	0.3712	0.0348	0.3549	0.9905	0.0092	0.3383	0.0093	0.3413
46	12.10	-15.27	1.0769	0.0470	0.3551	0.0437	0.3298	1.0286	0.0107	0.3385	0.0104	0.3290

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	152	0.94	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	12.08	-16.02	1.0991	0.0452	0.3639	0.0411	0.3311	1.0299	0.0115	0.3306	0.0112	0.3210
48	12.07	-16.83	0.9808	0.0498	0.3105	0.0508	0.3170	1.0677	0.0104	0.3216	0.0097	0.3012
49	12.08	-17.68	0.9341	0.0481	0.2827	0.0515	0.3026	1.0276	0.0119	0.3401	0.0116	0.3310
50	12.07	-18.57	0.8732	0.0311	0.2453	0.0357	0.2809	1.0307	0.0110	0.3417	0.0107	0.3316
51	12.06	-19.34	0.7556	0.0234	0.2206	0.0310	0.2919	0.9948	0.0123	0.3481	0.0124	0.3499
52	12.07	-20.13	0.7347	0.0234	0.2308	0.0318	0.3142	1.0075	0.0135	0.3441	0.0134	0.3416

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	15.3	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	15.10	19.40	2.8242	-5.4247	-3.6621	6.0178	-0.3120	0.0069	-1.9208		
2	15.10	19.40	2.8638	-5.4382	-3.6620	5.8307	-0.3140	0.0070	-1.8989		
3	15.10	18.66	2.8654	-5.4464	-3.5274	5.8753	-0.2570	0.0052	-1.9007		
4	15.11	17.80	2.8582	-5.4893	-3.4366	5.7470	-0.2370	-0.0053	-1.9205		
5	15.09	16.99	2.8396	-5.5833	-3.3205	5.5385	-0.1650	-0.0209	-1.4662		
6	15.10	16.21	2.7491	-5.1606	-3.3485	6.0437	-0.0270	-0.0482	-1.8772		
7	15.09	15.44	2.6844	-5.3670	-3.2938	6.2151	0.0650	-0.0672	-2.0067		
8	15.09	14.67	2.6870	-5.5396	-3.0624	5.8801	0.1040	-0.0582	-2.0616		
9	15.07	13.89	2.6943	-5.4999	-2.9028	5.8897	0.1340	-0.0452	-2.0413		
10	15.06	13.11	2.6950	-5.4616	-2.7186	5.5949	0.1180	-0.0328	-2.0266		
11	15.07	12.36	2.7315	-5.5329	-2.4939	5.3762	0.1320	-0.0203	-2.0256		
12	15.06	11.59	2.7425	-5.7323	-2.2979	4.9018	0.1360	-0.0084	-2.0901		
13	15.06	10.79	2.8018	-5.9503	-2.2186	4.5029	0.1650	-0.0133	-2.1237		
14	15.04	9.93	2.7823	-6.1560	-1.9124	3.8543	0.1690	-0.0024	-2.2125		
15	15.05	9.17	2.8365	-6.2328	-1.7624	3.5512	0.1410	-0.0100	-2.1973		
16	15.01	8.35	2.8801	-6.5338	-1.5445	3.1692	0.1540	0.0038	-2.2686		
17	15.02	7.55	2.9049	-6.7415	-1.4069	2.5856	0.1490	0.0080	-2.3207		
18	14.99	6.74	2.9262	-6.8603	-1.2501	2.2261	0.1150	0.0091	-2.3444		
19	15.00	5.95	2.9843	-7.0337	-1.0037	1.8901	0.0840	0.0153	-2.3569		
20	15.00	5.09	2.9551	-7.0738	-0.8425	1.4445	0.0690	0.0211	-2.3937		
21	14.99	4.30	3.0027	-7.1564	-0.7092	1.0609	0.0670	0.0384	-2.3833		
22	14.97	3.53	2.9693	-7.2336	-0.5528	0.8489	0.0710	0.0477	-2.4301		
23	14.98	2.83	3.0050	-7.2646	-0.4397	0.6646	0.0920	0.0543	-2.4175		
24	14.97	2.00	2.9846	-7.2590	-0.3688	0.4743	0.0790	0.0541	-2.4322		
25	14.97	1.21	3.0129	-7.3057	-0.2961	0.3295	0.0420	0.0636	-2.4248		
26	14.98	0.50	2.9906	-7.3584	-0.1871	0.2479	0.0420	0.0692	-2.4605		
27	15.00	-0.25	3.0132	-7.3761	-0.0814	0.3019	0.0310	0.0724	-2.4479		
28	14.97	-1.08	3.0050	-7.3056	-0.0421	0.1779	0.0260	0.0699	-2.4311		
29	14.99	-1.86	2.9980	-7.2808	0.0935	0.1231	-0.0010	0.0802	-2.4285		
30	14.97	-2.69	3.0219	-7.3223	0.2003	-0.1804	0.0120	0.0726	-2.4231		
31	14.97	-3.53	2.9896	-7.2920	0.3517	-0.3423	-0.0040	0.0667	-2.4391		
32	14.98	-4.29	3.0261	-7.2601	0.5078	-0.7090	-0.0210	0.0675	-2.3992		
33	14.99	-5.04	2.9648	-7.1303	0.6896	-1.0524	-0.0350	0.0714	-2.4050		
34	14.97	-5.88	2.9031	-6.9910	0.8418	-1.4695	-0.0630	0.0703	-2.4081		
35	14.98	-6.60	2.9232	-6.9471	1.0355	-1.8566	-0.0710	0.0706	-2.3765		
36	14.99	-7.45	2.9159	-6.8059	1.2688	-2.3133	-0.0890	0.0679	-2.3341		
37	15.00	-8.25	2.8456	-6.5915	1.4778	-2.7568	-0.1180	0.0718	-2.3164		
38	15.02	-9.02	2.8528	-6.3706	1.5784	-3.1746	-0.0780	0.0627	-2.2331		
39	15.02	-9.84	2.8337	-6.1699	1.7447	-3.7154	-0.0700	0.0631	-2.1773		
40	15.01	-10.63	2.7937	-6.0000	1.9392	-4.1208	-0.0720	0.0581	-2.1476		
41	15.00	-11.35	2.7584	-5.8346	2.0735	-4.5507	-0.0370	0.0617	-2.1152		
42	15.00	-12.14	2.7530	-5.7480	2.3476	-4.9824	-0.0470	0.0529	-2.0879		
43	15.02	-12.89	2.7595	-5.7431	2.5331	-5.2321	-0.0460	0.0482	-2.0812		
44	15.02	-13.72	2.7595	-5.5881	2.5968	-5.4062	-0.0060	0.0323	-2.0250		
45	15.03	-14.56	2.7580	-5.6930	2.7993	-5.2819	0.0180	0.0522	-2.0642		
46	15.03	-15.38	2.8011	-5.4204	2.9333	-5.6254	0.0960	0.0456	-1.9351		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	153	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	15.04	-16.24	2.7970	-5.5116	2.4798	-5.8105	0.1440	0.0502	-1.9705
48	15.06	-16.97	2.8630	-5.5940	3.0722	-5.3109	0.2500	0.0807	-1.9539
49	15.03	-17.92	2.8645	-5.6541	3.1793	-5.4999	0.3030	0.0762	-1.9738
50	15.04	-18.72	2.8524	-5.5992	3.2405	-5.5225	0.3899	0.0744	-1.9630
51	15.08	-19.57	3.0318	-5.7003	3.3451	-5.4780	0.4559	0.0754	-1.8802
52	15.06	-20.11	3.0100	-5.8458	3.4173	-5.3861	0.4789	0.0829	-1.9421

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH		PH1	CUNF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION		
	6	153 0.92 1.7	0.0	82WUF12	0.0	0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.10	19.80	-0.7546	0.0539	-0.2622	-0.0714	0.3475	0.4993	0.0446	0.0269	0.1116	0.0673
2	15.10	19.40	-0.7302	0.0537	-0.2590	-0.0727	0.3508	0.4283	0.0443	0.0212	0.1034	0.0496
3	15.10	18.66	-0.7005	0.0539	-0.2527	-0.0769	0.3608	0.4356	0.0445	0.0201	0.1021	0.0461
4	15.11	17.80	-0.6802	0.0535	-0.2433	-0.0787	0.3578	0.3977	0.0440	0.0246	0.1107	0.0620
5	15.09	16.99	-0.6290	0.0541	-0.2241	-0.0860	0.3563	0.3928	0.0443	0.0210	0.1127	0.0535
6	15.10	16.21	-0.5339	0.0537	-0.2138	-0.1005	0.4004	0.3805	0.0444	0.0165	0.1168	0.0434
7	15.09	15.44	-0.5027	0.0521	-0.1832	-0.1036	0.3644	0.3803	0.0439	0.0117	0.1155	0.0306
8	15.09	14.67	-0.4264	0.0505	-0.1784	-0.1185	0.4183	0.3371	0.0440	0.0132	0.1306	0.0390
9	15.07	13.89	-0.3784	0.0497	-0.1789	-0.1313	0.4727	0.3827	0.0462	0.0005	0.1208	0.0012
10	15.06	13.11	-0.3612	0.0493	-0.1763	-0.1364	0.4879	0.3112	0.0473	0.0031	0.1519	0.0101
11	15.07	12.36	-0.3883	0.0487	-0.1583	-0.1255	0.4076	0.2426	0.0488	0.0000	0.2011	0.0002
12	15.06	11.59	-0.3204	0.0498	-0.1427	-0.1554	0.4452	0.3093	0.0482	-0.0071	0.1559	-0.0230
13	15.06	10.79	-0.2444	0.0470	-0.1230	-0.1923	0.5034	0.3513	0.0454	-0.0042	0.1292	-0.0120
14	15.04	9.93	-0.1541	0.0424	-0.0902	-0.2754	0.5856	0.3863	0.0412	-0.0026	0.1067	-0.0068
15	15.05	9.17	-0.1663	0.0447	-0.0869	-0.2687	0.5226	0.3718	0.0420	-0.0052	0.1129	-0.0139
16	15.01	8.35	-0.0832	0.0434	-0.0712	-0.5221	0.8561	0.3957	0.0413	-0.0100	0.1045	-0.0253
17	15.02	7.55	-0.0367	0.0409	-0.0434	-1.1142	1.1833	0.3573	0.0380	-0.0009	0.1063	-0.0025
18	14.99	6.74	-0.0211	0.0446	-0.0607	-2.1134	2.8782	0.3581	0.0401	-0.0072	0.1121	-0.0202
19	15.00	5.95	-0.0286	0.0512	-0.0573	-1.7899	2.0045	0.3341	0.0409	-0.0060	0.1225	-0.0181
20	15.00	5.09	0.0131	0.0558	-0.0402	4.2588	-3.0714	0.3587	0.0389	-0.0116	0.1085	-0.0324
21	14.99	4.30	0.0937	0.0549	-0.0244	0.5858	-0.2602	0.3539	0.0368	-0.0091	0.1039	-0.0258
22	14.97	3.53	0.1301	0.0498	-0.0124	0.3831	-0.0957	0.2756	0.0361	-0.0070	0.1309	-0.0255
23	14.98	2.83	0.1342	0.0311	0.0143	0.2321	0.1067	0.2806	0.0369	-0.0123	0.1839	-0.0611
24	14.97	2.00	0.0911	0.0198	0.0159	0.2060	0.1637	0.2163	0.0370	-0.0231	0.1709	-0.1065
25	14.97	1.21	0.0588	0.0151	-0.0033	0.2568	-0.0562	0.2016	0.0379	-0.0252	0.1882	-0.1251
26	14.98	0.50	0.0443	0.0014	-0.0022	0.0316	-0.0505	0.2148	0.0381	-0.0419	0.1773	-0.1952
27	15.00	-0.25	-0.0150	-0.0121	0.0066	0.8065	-0.4401	0.2122	0.0383	-0.0566	0.1805	-0.2667
28	14.97	-1.08	-0.0458	-0.0256	0.0128	0.5589	-0.2803	0.1813	0.0377	-0.0649	0.2079	-0.3579
29	14.99	-1.86	-0.0895	-0.0338	0.0020	0.3776	-0.0221	0.2289	0.0381	-0.0811	0.1664	-0.3544
30	14.97	-2.69	-0.0308	-0.0470	0.0202	1.5273	-0.6570	0.2093	0.0363	-0.0901	0.1736	-0.4308
31	14.97	-3.53	-0.0368	-0.0551	0.0243	1.4970	-0.6614	0.1650	0.0356	-0.0960	0.2160	-0.5819
32	14.98	-4.29	-0.0349	-0.0597	0.0318	1.7117	-0.9103	0.1953	0.0356	-0.1074	0.1823	-0.5500
33	14.99	-5.04	-0.0001	-0.0586	0.0382	586.3953	-381.6667	0.1757	0.0349	-0.1140	0.1909	-0.6471
34	14.97	-5.88	-0.0041	-0.0527	0.0440	12.8514	-10.7400	0.1652	0.0347	-0.1221	0.2100	-0.7394
35	14.98	-6.60	0.0509	-0.0479	0.0517	-0.9409	1.0149	0.1793	0.0338	-0.1292	0.1888	-0.7209
36	14.99	-7.45	0.0948	-0.0423	0.0549	-0.4461	0.3790	0.1122	0.0336	-0.1284	0.2994	-1.1445
37	15.00	-8.25	0.0580	-0.0408	0.0623	-0.7033	1.0746	0.1284	0.0331	-0.1338	0.2577	-1.0422
38	15.02	-9.02	0.1727	-0.0415	0.0867	-0.2405	0.5023	0.1625	0.0298	-0.1606	0.1834	-0.9886
39	15.02	-9.84	0.2690	-0.0440	0.1246	-0.1823	0.4633	0.1439	0.0265	-0.1759	0.1845	-1.2227
40	15.01	-10.63	0.3094	-0.0460	0.1194	-0.1485	0.3868	0.1584	0.0257	-0.1856	0.1625	-1.1718
41	15.00	-11.35	0.3494	-0.0490	0.1553	-0.1402	0.4445	0.1252	0.0233	-0.2019	0.1865	-1.6133
42	15.00	-12.14	0.3611	-0.0503	0.1668	-0.1394	0.4620	0.1273	0.0217	-0.2088	0.1708	-1.6409
43	15.02	-12.89	0.4173	-0.0505	0.1633	-0.1211	0.3912	0.1413	0.0190	-0.2080	0.1348	-1.4722
44	15.02	-13.72	0.4310	-0.0515	0.1884	-0.1196	0.4371	0.1052	0.0163	-0.2174	0.1554	-2.0670
45	15.03	-14.56	0.4695	-0.0538	0.1760	-0.1147	0.3750	0.0858	0.0161	-0.2174	0.1876	-2.5339
46	15.03	-15.38	0.5117	-0.0531	0.2146	-0.1038	0.4194	0.0981	0.0157	-0.2470	0.2710	-4.2520

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		153	0.92 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	15.04	-16.24	0.6181	-0.0524	0.2305	-0.0848	0.3728	0.0881	0.0133	-0.2496	0.1509	-2.8336
48	15.06	-16.97	0.6568	-0.0565	0.2318	-0.0861	0.3530	0.0285	0.0118	-0.2513	0.4157	-8.8177
49	15.03	-17.92	0.7745	-0.0517	0.2536	-0.0667	0.3274	0.0837	0.0133	-0.2421	0.1589	-2.8926
50	15.04	-18.72	0.8565	-0.0471	0.2752	-0.0550	0.3213	0.0363	0.0132	-0.2604	0.3636	-7.1737
51	15.08	-19.57	0.8445	-0.0524	0.2786	-0.0621	0.3299	-0.0059	0.0126	-0.2742	-2.1437	46.4857
52	15.06	-20.11	0.8117	-0.0566	0.2811	-0.0698	0.3463	0.0165	0.0119	-0.2847	0.7211	-17.2547

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15.0	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	15.10	19.80	-0.8434	-0.0220	-0.2842	0.0261	0.3370	0.4218	-0.0599	0.1901	-0.1421	0.4508
2	15.10	19.40	-0.7991	-0.0219	-0.2551	0.0274	0.3093	0.4462	-0.0601	0.1803	-0.1346	0.4040
3	15.10	18.66	-0.8948	-0.0304	-0.3061	0.0340	0.3420	0.4317	-0.0603	0.1939	-0.1396	0.4492
4	15.11	17.80	-0.8686	-0.0418	-0.3058	0.0482	0.3521	0.5061	-0.0619	0.1853	-0.1224	0.3662
5	15.09	16.99	-0.9431	-0.0463	-0.3088	0.0491	0.3274	0.5490	-0.0624	0.1972	-0.1136	0.3593
6	15.10	16.21	-1.0378	-0.0470	-0.3689	0.0453	0.3555	0.5582	-0.0590	0.2004	-0.1057	0.3590
7	15.09	15.44	-1.0820	-0.0435	-0.4031	0.0402	0.3726	0.5799	-0.0523	0.2168	-0.0902	0.3739
8	15.09	14.67	-1.0836	-0.0447	-0.4006	0.0413	0.3697	0.6335	-0.0494	0.2205	-0.0780	0.3481
9	15.07	13.89	-1.0440	-0.0271	-0.4210	0.0260	0.4032	0.5938	-0.0451	0.2278	-0.0760	0.3836
10	15.06	13.11	-1.0587	-0.0192	-0.4054	0.0181	0.3829	0.6123	-0.0407	0.2183	-0.0665	0.3566
11	15.07	12.36	-0.9754	-0.0127	-0.4125	0.0131	0.4229	0.6056	-0.0347	0.2209	-0.0574	0.3647
12	15.06	11.59	-0.9122	-0.0100	-0.3910	0.0110	0.4286	0.6699	-0.0282	0.2239	-0.0422	0.3343
13	15.06	10.79	-0.8638	-0.0101	-0.3684	0.0117	0.4265	0.6636	-0.0226	0.2389	-0.0340	0.3600
14	15.04	9.93	-0.7573	-0.0102	-0.3503	0.0135	0.4626	0.7276	-0.0141	0.2419	-0.0194	0.3325
15	15.05	9.17	-0.7117	-0.0101	-0.3209	0.0142	0.4509	0.7470	-0.0120	0.2448	-0.0161	0.3277
16	15.01	8.35	-0.6108	-0.0110	-0.3065	0.0180	0.5025	0.7904	-0.0067	0.2536	-0.0085	0.3208
17	15.02	7.55	-0.5867	-0.0108	-0.2643	0.0185	0.4505	0.8124	-0.0013	0.2586	-0.0016	0.3183
18	14.99	6.74	-0.4506	-0.0110	-0.2509	0.0245	0.5569	0.7766	-0.0038	0.2712	-0.0049	0.3492
19	15.00	5.95	-0.3987	-0.0109	-0.2194	0.0275	0.5504	0.8158	-0.0034	0.2681	-0.0042	0.3287
20	15.00	5.09	-0.3216	-0.0118	-0.1798	0.0368	0.5589	0.8265	0.0008	0.2718	0.0010	0.3289
21	14.99	4.30	-0.2344	-0.0106	-0.1628	0.0454	0.6946	0.8386	0.0051	0.2824	0.0061	0.3368
22	14.97	3.53	-0.2030	-0.0086	-0.1328	0.0424	0.6544	0.8856	0.0047	0.2869	0.0076	0.3240
23	14.98	2.83	-0.1049	-0.0077	-0.1076	0.0734	1.0263	0.9360	0.0095	0.2956	0.0102	0.3158
24	14.97	2.00	-0.1109	-0.0055	-0.0710	0.0500	0.6407	0.9404	0.0086	0.3081	0.0092	0.3276
25	14.97	1.21	-0.0477	-0.0038	-0.0441	0.0807	0.9244	0.9881	0.0032	0.3126	0.0083	0.3163
26	14.98	0.50	0.0330	-0.0038	-0.0226	-0.1151	-0.6850	1.0068	0.0070	0.3250	0.0070	0.3228
27	15.00	-0.25	0.0862	-0.0033	0.0000	-0.0383	0.0003	1.0360	0.0068	0.3395	0.0066	0.3277
28	14.97	-1.08	0.1773	-0.0033	0.0199	-0.0189	0.1121	1.0566	0.0057	0.3449	0.0054	0.3264
29	14.99	-1.86	0.1954	-0.0021	0.0545	-0.0107	0.2790	1.1130	0.0046	0.3466	0.0041	0.3114
30	14.97	-2.69	0.2421	-0.0001	0.0815	-0.0004	0.3365	1.1385	0.0064	0.3555	0.0057	0.3122
31	14.97	-3.53	0.3240	0.0018	0.1066	0.0056	0.3289	1.1525	0.0045	0.3602	0.0039	0.3126
32	14.98	-4.29	0.3662	0.0053	0.1369	0.0145	0.3794	1.1317	0.0052	0.3698	0.0046	0.3268
33	14.99	-5.04	0.4650	0.0067	0.1626	0.0145	0.3498	1.1500	0.0057	0.3622	0.0050	0.3150
34	14.97	-5.88	0.5475	0.0072	0.1927	0.0131	0.3520	1.1846	0.0053	0.3593	0.0045	0.3033
35	14.98	-6.60	0.6046	0.0078	0.2251	0.0130	0.3722	1.2102	0.0080	0.3571	0.0066	0.2950
36	14.99	-7.45	0.6806	0.0083	0.2578	0.0123	0.3788	1.1715	0.0074	0.3687	0.0064	0.3147
37	15.00	-8.25	0.7317	0.0115	0.2827	0.0157	0.3864	1.1930	0.0071	0.3662	0.0059	0.3070
38	15.02	-9.02	0.8190	0.0101	0.3091	0.0123	0.3774	1.1485	0.0115	0.3717	0.0100	0.3236
39	15.02	-9.84	0.8768	0.0099	0.3299	0.0113	0.3762	1.1732	0.0245	0.3402	0.0209	0.2968
40	15.01	-10.63	0.9591	0.0114	0.3501	0.0119	0.3650	1.1899	0.0173	0.3578	0.0146	0.3007
41	15.00	-11.35	0.9959	0.0121	0.3655	0.0121	0.3674	1.1496	0.0222	0.3595	0.0193	0.3127
42	15.00	-12.14	1.0744	0.0169	0.3853	0.0157	0.3586	1.1932	0.0242	0.3525	0.0203	0.2954
43	15.02	-12.89	1.1098	0.0259	0.3898	0.0233	0.3512	1.2134	0.0211	0.3581	0.0174	0.2951
44	15.02	-13.72	1.1714	0.0320	0.3828	0.0273	0.3268	1.1622	0.0210	0.3664	0.0181	0.3152
45	15.03	-14.56	1.1243	0.0500	0.3705	0.0445	0.3296	1.2332	0.0152	0.3713	0.0123	0.3011
46	15.03	-15.38	1.1276	0.0461	0.3785	0.0409	0.3361	1.2335	0.0213	0.3644	0.0173	0.2954

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	153	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.04	-16.24	1.1207	0.0507	0.3526	0.0452	0.3147	1.1713	0.0278	0.3677	0.0238	0.3139
48	15.06	-16.97	1.0253	0.0493	0.2528	0.0481	0.2855	1.2409	0.0222	0.3703	0.0179	0.2984
49	15.03	-17.92	0.9499	0.0390	0.2832	0.0410	0.2982	1.2239	0.0242	0.3725	0.0198	0.3044
50	15.04	-18.72	0.8988	0.0279	0.2634	0.0310	0.2931	1.1784	0.0268	0.3753	0.0228	0.3185
51	15.08	-19.57	0.8417	0.0212	0.2528	0.0252	0.3003	1.2434	0.0251	0.3715	0.0202	0.2988
52	15.06	-20.11	0.8146	0.0215	0.2462	0.0264	0.3023	1.2195	0.0247	0.3716	0.0203	0.3047

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MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 154	MACH 0.92	RX10-6 1.7	PHI 0.0	CONF B2WOF12	L 0.0	DEL1	DEL2	DEL3	DEL4	TRANSITION
							0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	18.22	19.83	3.2982	-5.1184	-3.7708	5.9190	-0.1070	-0.0403	-1.5519		
2	18.19	19.43	3.2611	-5.1814	-3.7480	5.8421	-0.1080	-0.0373	-1.5809		
3	18.23	18.70	3.2857	-5.2309	-3.6139	5.8324	-0.0740	-0.0555	-1.5920		
4	18.19	17.05	3.2530	-5.2421	-3.5571	5.7179	-0.0410	-0.0411	-1.6115		
5	18.19	17.08	3.2384	-5.3826	-3.3599	5.5227	0.0160	-0.0474	-1.6621		
6	18.19	16.24	3.1452	-5.0512	-3.3847	6.2183	0.1720	-0.0559	-1.6060		
7	18.19	15.50	3.2153	-5.3073	-3.1794	6.0349	0.2070	-0.0576	-1.6506		
8	18.15	14.69	3.1019	-5.2625	-3.1404	6.0243	0.2860	-0.0542	-1.6966		
9	18.16	13.88	3.1826	-5.4355	-2.9686	5.9068	0.3090	-0.0385	-1.7079		
10	18.15	13.13	3.1707	-5.3688	-2.8521	5.7837	0.3270	-0.0152	-1.6933		
11	18.13	12.34	3.2092	-5.6677	-2.7151	5.4790	0.3470	-0.0208	-1.7661		
12	18.14	11.57	3.1933	-5.8664	-2.5147	5.1343	0.3550	-0.0128	-1.8371		
13	18.14	10.79	3.2081	-6.0261	-2.3432	4.6663	0.3380	-0.0156	-1.8784		
14	18.11	9.95	3.2215	-6.2438	-2.0891	4.1966	0.3140	-0.0045	-1.9382		
15	18.09	9.12	3.2652	-6.5770	-1.9078	3.8728	0.3280	-0.0027	-2.0143		
16	18.07	8.30	3.2889	-6.8031	-1.7378	3.4288	0.3150	-0.0108	-2.0885		
17	18.07	7.52	3.3316	-6.9059	-1.4854	2.8611	0.2720	-0.0063	-2.0729		
18	18.06	6.75	3.3903	-7.1660	-1.2522	2.3441	0.2850	0.0011	-2.1137		
19	18.08	5.88	3.4359	-7.1699	-0.9829	1.8400	0.2070	0.0282	-2.0868		
20	18.04	5.06	3.5469	-7.6704	-0.9392	1.4598	0.2260	0.0003	-2.1625		
21	18.02	4.24	3.5516	-7.9379	-0.8396	1.2734	0.2320	-0.0030	-2.2350		
22	18.03	3.47	3.6008	-8.0748	-0.6552	0.9543	0.1860	-0.0004	-2.2425		
23	18.01	2.70	3.6036	-8.1547	-0.4499	0.6909	0.1480	0.0058	-2.2629		
24	18.05	1.92	3.6470	-8.3044	-0.3862	0.5827	0.1230	0.0	-2.2770		
25	18.02	1.14	3.6451	-8.3747	-0.2476	0.5576	0.0840	0.0142	-2.2975		
26	18.02	0.43	3.6609	-8.3829	-0.1551	0.3681	0.0210	0.0098	-2.2898		
27	18.04	-0.35	3.6605	-8.3313	-0.1029	0.2110	-0.0510	0.0091	-2.2760		
28	18.03	-1.14	3.6611	-8.2822	-0.0265	0.1369	-0.0640	0.0128	-2.2622		
29	18.02	-1.98	3.5934	-8.1964	0.1464	0.0303	-0.0910	0.0262	-2.2809		
30	18.03	-2.80	3.5935	-8.0535	0.2462	-0.1687	-0.1280	0.0304	-2.2411		
31	18.01	-3.66	3.5126	-7.9313	0.3417	-0.4585	-0.1430	0.0450	-2.2579		
32	18.02	-4.44	3.4858	-7.7608	0.5324	-0.8304	-0.1800	0.0466	-2.2264		
33	18.01	-5.20	3.4601	-7.5608	0.7274	-1.1873	-0.1950	0.0506	-2.1851		
34	18.05	-5.98	3.3986	-7.3106	0.8799	-1.6408	-0.2060	0.0480	-2.1511		
35	18.04	-6.80	3.4103	-7.2060	1.1434	-2.1215	-0.2360	0.0447	-2.1130		
36	18.06	-7.60	3.3328	-6.9996	1.3627	-2.5627	-0.2450	0.0439	-2.1002		
37	18.07	-8.41	3.2601	-6.6388	1.5515	-3.0920	-0.2720	0.0467	-2.0364		
38	18.09	-9.19	3.2744	-6.3739	1.7080	-3.5700	-0.2800	0.0520	-1.9466		
39	18.08	-10.02	3.2417	-6.3471	2.0112	-4.0676	-0.3020	0.0349	-1.9580		
40	18.11	-10.78	3.1897	-5.8764	2.1277	-4.4566	-0.2840	0.0305	-1.8423		
41	18.12	-11.57	3.1778	-5.7697	2.2676	-4.9324	-0.2510	0.0344	-1.8156		
42	18.10	-12.33	3.1450	-5.5068	2.4597	-5.3013	-0.2490	0.0312	-1.7510		
43	18.12	-13.15	3.1230	-5.5450	2.5655	-5.5084	-0.2050	0.0212	-1.7756		
44	18.10	-14.00	3.1125	-5.4593	2.7061	-5.6184	-0.1900	0.0108	-1.7540		
45	18.14	-14.84	3.1621	-5.4268	2.8583	-5.6974	-0.1580	0.0045	-1.7162		
46	18.13	-15.63	3.1357	-5.3038	2.9887	-5.8910	-0.1050	-0.0196	-1.6914		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 154 0.92 1.7 0.0 BZMOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	18.15	-16.47	3.2504	-5.5054	3.0440	-5.3455	0.0200	0.0201	-1.6938
48	18.15	-17.26	3.2890	-5.4884	3.1438	-5.2442	0.0810	0.0135	-1.6687
49	18.17	-18.16	3.3016	-5.2561	3.2868	-5.3554	0.1340	0.0159	-1.5920
50	18.16	-18.99	3.4012	-5.4875	3.4196	-5.3283	0.2150	0.0241	-1.6134
51	18.17	-19.79	3.4630	-5.5232	3.6260	-5.2684	0.2810	0.0118	-1.5949

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15.4	0.92	1.7	0.0	02W0F12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	18.22	19.83	-0.7563	0.0574	-0.2606	-0.0759	0.3446	0.4545	0.0480	-0.0635	0.1045	-0.1383
2	18.19	19.43	-0.7206	0.0563	-0.2648	-0.0782	0.3675	0.4408	0.0484	-0.0606	0.1099	-0.1374
3	18.23	18.70	-0.6757	0.0543	-0.2557	-0.0878	0.3785	0.4423	0.0485	-0.0656	0.1097	-0.1483
4	18.19	17.85	-0.6383	0.0592	-0.2453	-0.0927	0.3843	0.4350	0.0483	-0.0670	0.1110	-0.1540
5	18.19	17.08	-0.6006	0.0587	-0.2362	-0.0977	0.3933	0.4115	0.0476	-0.0709	0.1157	-0.1724
6	18.19	16.24	-0.4908	0.0628	-0.2145	-0.1279	0.4371	0.4178	0.0480	-0.0869	0.1148	-0.2081
7	18.19	15.50	-0.5126	0.0626	-0.1947	-0.1222	0.3798	0.4172	0.0489	-0.0784	0.1173	-0.1880
8	18.15	14.89	-0.4243	0.0621	-0.1767	-0.1463	0.4164	0.4110	0.0488	-0.0864	0.1188	-0.2102
9	18.16	13.88	-0.3420	0.0613	-0.1735	-0.1793	0.5071	0.4039	0.0482	-0.0884	0.1193	-0.2188
10	18.15	13.13	-0.3362	0.0614	-0.1616	-0.1826	0.4804	0.4052	0.0479	-0.0939	0.1182	-0.2318
11	18.13	12.34	-0.2853	0.0547	-0.1410	-0.2252	0.5315	0.4131	0.0480	-0.0894	0.1163	-0.2164
12	18.14	11.57	-0.2062	0.0565	-0.1157	-0.2740	0.5611	0.4209	0.0482	-0.0782	0.1145	-0.1858
13	18.14	10.79	-0.2444	0.0576	-0.1218	-0.2358	0.4485	0.3875	0.0477	-0.0901	0.1232	-0.2326
14	18.11	9.95	-0.2112	0.0576	-0.0867	-0.2729	0.4104	0.4226	0.0478	-0.0797	0.1132	-0.1887
15	18.09	9.12	-0.1408	0.0558	-0.0849	-0.3566	0.6031	0.4452	0.0473	-0.0851	0.1063	-0.1912
16	18.07	8.30	-0.0996	0.0581	-0.0717	-0.5832	0.7198	0.3984	0.0485	-0.0777	0.1218	-0.1950
17	18.07	7.52	-0.0619	0.0621	-0.0779	-1.0039	1.2589	0.4177	0.0484	-0.0791	0.1159	-0.1893
18	18.06	6.75	0.0329	0.0617	-0.0345	1.8766	-1.0498	0.4184	0.0481	-0.0683	0.1149	-0.1633
19	18.08	5.88	0.0234	0.0700	-0.0612	2.9931	-2.6155	0.4358	0.0471	-0.0782	0.1080	-0.1795
20	18.04	5.06	0.1116	0.0612	-0.0111	0.5483	-0.0996	0.3503	0.0465	-0.0401	0.1327	-0.1146
21	18.02	4.24	0.1343	0.0471	0.0248	0.3510	0.1850	0.3288	0.0450	-0.0290	0.1369	-0.0882
22	18.03	3.47	0.1068	0.0395	0.0174	0.3698	0.1665	0.3908	0.0450	-0.0303	0.1151	-0.0776
23	18.01	2.70	0.1223	0.0368	0.0132	0.3013	0.1084	0.3978	0.0456	-0.0292	0.1146	-0.0734
24	18.05	1.92	0.0683	0.0349	0.0058	0.5109	0.0843	0.4127	0.0458	-0.0308	0.1111	-0.0747
25	18.02	1.14	0.0650	0.0137	0.0022	0.2115	0.0332	0.3526	0.0455	-0.0290	0.1291	-0.0822
26	18.02	0.43	0.0029	-0.0005	0.0059	-0.1896	2.0229	0.3890	0.0420	-0.0304	0.1079	-0.0782
27	18.04	-0.35	-0.0859	-0.0167	-0.0006	0.1944	0.0073	0.3646	0.0380	-0.0229	0.1043	-0.0627
28	18.03	-1.14	-0.0884	-0.0323	-0.0003	0.3653	0.0029	0.3583	0.0370	-0.0294	0.1034	-0.0820
29	18.02	-1.98	-0.0892	-0.0501	0.0103	0.5616	-0.1152	0.3332	0.0355	-0.0447	0.1065	-0.1342
30	18.03	-2.80	-0.1251	-0.0562	0.0039	0.4442	-0.0313	0.3565	0.0350	-0.0551	0.0981	-0.1544
31	18.01	-3.66	-0.0895	-0.0684	0.0160	0.7641	-0.1785	0.3462	0.0343	-0.0658	0.0992	-0.1900
32	18.02	-4.44	-0.0873	-0.0731	0.0233	0.8378	-0.2670	0.3119	0.0336	-0.0712	0.1077	-0.2283
33	18.01	-5.20	-0.0519	-0.0721	0.0256	1.3899	-0.4934	0.3687	0.0332	-0.0882	0.0901	-0.2392
34	18.05	-5.98	-0.0114	-0.0714	0.0457	6.2620	-4.0089	0.3080	0.0312	-0.0938	0.1014	-0.3046
35	18.04	-6.80	0.0083	-0.0683	0.0498	-8.2335	5.9959	0.1736	0.0309	-0.0818	0.1780	-0.4715
36	18.06	-7.60	0.0457	-0.0657	0.0663	-1.4385	1.4514	0.2434	0.0297	-0.0995	0.1220	-0.4088
37	18.07	-8.41	0.0977	-0.0626	0.0681	-0.6406	0.6976	0.2082	0.0289	-0.1033	0.1388	-0.4963
38	18.04	-9.19	0.1497	-0.0647	0.0909	-0.4325	0.6071	0.1945	0.0271	-0.1138	0.1393	-0.5850
39	18.08	-10.02	0.1775	-0.0602	0.0968	-0.3394	0.5456	0.2172	0.0257	-0.1243	0.1185	-0.5724
40	18.11	-10.78	0.2627	-0.0657	0.1256	-0.2501	0.4782	0.1686	0.0226	-0.1397	0.1343	-0.8287
41	18.12	-11.57	0.3655	-0.0688	0.1569	-0.1882	0.4292	0.2035	0.0200	-0.1683	0.0983	-0.8270
42	18.10	-12.33	0.3930	-0.0696	0.1830	-0.1770	0.4655	0.2061	0.0175	-0.1851	0.0851	-0.8982
43	18.12	-13.15	0.4543	-0.0687	0.1821	-0.1512	0.4008	0.1846	0.0157	-0.1823	0.0850	-0.9875
44	18.10	-14.00	0.4961	-0.0688	0.1539	-0.1387	0.3909	0.2239	0.0138	-0.1991	0.0616	-0.8892
45	18.14	-14.84	0.5314	-0.0681	0.2089	-0.1282	0.3930	0.1891	0.0114	-0.2125	0.0603	-1.1237
46	18.13	-15.63	0.5596	-0.0690	0.2078	-0.1216	0.3713	0.1535	0.0120	-0.2127	0.0785	-1.3860

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	154	0.92	1.7	0.0	B2NOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.15	-16.47	0.5743	-0.0671	0.2211	-0.1168	0.3849	0.1608	0.0106	-0.2164	0.0659	-1.3459
48	18.15	-17.26	0.6055	-0.0682	0.2405	-0.1126	0.3971	0.1585	0.0101	-0.2324	0.0637	-1.4668
49	18.17	-18.16	0.6686	-0.0689	0.2480	-0.1031	0.3709	0.1109	0.0108	-0.2431	0.0974	-2.1925
50	18.16	-18.99	0.6946	-0.0686	0.2554	-0.0988	0.3678	0.0821	0.0110	-0.2463	0.1340	-3.0005
51	18.17	-19.79	0.7005	-0.0676	0.2681	-0.0965	0.3827	0.0868	0.0109	-0.2616	0.1261	-3.0147

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 154 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	18.22	19.83	-0.8588	-0.0228	-0.3262	0.0265	0.3798	0.5549	-0.0569	0.2213	-0.1025	0.3988
2	18.19	19.43	-0.8618	-0.0238	-0.3225	0.0277	0.3742	0.6218	-0.0557	0.2137	-0.0896	0.3437
3	18.23	18.70	-0.9230	-0.0259	-0.3266	0.0281	0.3531	0.5490	-0.0568	0.2242	-0.1035	0.4084
4	18.19	17.85	-0.9438	-0.0426	-0.3187	0.0452	0.3377	0.5992	-0.0603	0.2214	-0.1007	0.3694
5	18.19	17.08	-0.9451	-0.0460	-0.3337	0.0447	0.3531	0.6530	-0.0587	0.2323	-0.0899	0.3557
6	18.19	16.24	-1.1369	-0.0437	-0.3582	0.0385	0.3503	0.6238	-0.0598	0.2272	-0.0958	0.3641
7	18.19	15.50	-1.1400	-0.0441	-0.4175	0.0387	0.3662	0.6290	-0.0579	0.2305	-0.0920	0.3664
8	18.15	14.69	-1.1540	-0.0346	-0.4209	0.0300	0.3648	0.7127	-0.0530	0.2437	-0.0743	0.3419
9	18.16	13.88	-1.0652	-0.0251	-0.4394	0.0236	0.4125	0.7252	-0.0477	0.2535	-0.0658	0.3496
10	18.15	13.13	-1.0322	-0.0128	-0.4436	0.0124	0.4298	0.7320	-0.0397	0.2503	-0.0543	0.3420
11	18.13	12.34	-0.9863	-0.0119	-0.4267	0.0121	0.4327	0.7811	-0.0335	0.2571	-0.0429	0.3291
12	18.14	11.57	-0.9036	-0.0126	-0.4077	0.0140	0.4512	0.8578	-0.0258	0.2670	-0.0301	0.3113
13	18.14	10.79	-0.8707	-0.0108	-0.3760	0.0124	0.4318	0.8263	-0.0214	0.2785	-0.0259	0.3370
14	18.11	9.95	-0.7975	-0.0129	-0.3549	0.0162	0.4451	0.8635	-0.0180	0.2843	-0.0209	0.3293
15	18.09	9.12	-0.6666	-0.0147	-0.3371	0.0221	0.5057	0.8969	-0.0127	0.2910	-0.0142	0.3244
16	18.07	8.30	-0.6123	-0.0155	-0.3040	0.0254	0.4965	0.9108	-0.0086	0.3025	-0.0095	0.3321
17	18.07	7.52	-0.5557	-0.0142	-0.2692	0.0255	0.4843	0.9258	-0.0094	0.3001	-0.0102	0.3241
18	18.06	6.75	-0.4583	-0.0145	-0.2480	0.0317	0.5411	0.9610	-0.0049	0.3022	-0.0051	0.3145
19	18.08	5.88	-0.3633	-0.0144	-0.2183	0.0398	0.6007	0.9402	-0.0064	0.3052	-0.0069	0.3246
20	18.04	5.06	-0.3292	-0.0143	-0.1851	0.0434	0.5622	0.9649	0.0015	0.3170	0.0016	0.3286
21	18.02	4.24	-0.2497	-0.0120	-0.1588	0.0480	0.6360	1.0591	0.0075	0.3218	0.0071	0.3039
22	18.03	3.47	-0.1701	-0.0103	-0.1365	0.0608	0.8024	1.0347	0.0068	0.3380	0.0066	0.3266
23	18.01	2.70	-0.0976	-0.0082	-0.1043	0.0840	1.0689	1.0649	0.0079	0.3394	0.0075	0.3188
24	18.05	1.92	-0.0458	-0.0052	-0.0779	0.1135	1.7022	1.0825	0.0088	0.3434	0.0081	0.3172
25	18.02	1.14	0.0230	-0.0042	-0.0560	-0.1847	-2.4363	1.0967	0.0132	0.3536	0.0121	0.3225
26	18.02	0.43	0.0569	-0.0036	-0.0252	-0.0641	-0.4436	1.0814	0.0269	0.3377	0.0249	0.3123
27	18.04	-0.35	0.1018	-0.0035	0.0056	-0.0349	0.0552	1.1091	0.0314	0.3302	0.0283	0.2977
28	18.03	-1.14	0.1285	-0.0023	0.0350	-0.0183	0.2725	1.1246	0.0287	0.3337	0.0255	0.2968
29	18.02	-1.98	0.1943	-0.0000	0.0625	-0.0003	0.3240	1.1423	0.0290	0.3260	0.0254	0.2854
30	18.03	-2.80	0.2830	0.0021	0.0850	0.0076	0.3004	1.1136	0.0320	0.3222	0.0288	0.2893
31	18.01	-3.66	0.3278	0.0062	0.1204	0.0191	0.3689	1.0616	0.0336	0.3135	0.0311	0.2899
32	18.02	-4.44	0.3993	0.0087	0.1452	0.0219	0.3635	1.0588	0.0354	0.3117	0.0335	0.2944
33	18.01	-5.20	0.4554	0.0102	0.1734	0.0225	0.3809	1.0585	0.0356	0.3086	0.0336	0.2916
34	18.05	-5.98	0.5471	0.0116	0.2065	0.0213	0.3774	1.0595	0.0358	0.3003	0.0338	0.2834
35	18.04	-6.80	0.6299	0.0132	0.2354	0.0210	0.3737	1.0386	0.0359	0.2966	0.0346	0.2856
36	18.06	-7.60	0.6983	0.0135	0.2610	0.0194	0.3737	1.0260	0.0363	0.2980	0.0354	0.2904
37	18.07	-8.41	0.8031	0.0162	0.2860	0.0202	0.3561	1.0325	0.0370	0.2953	0.0359	0.2860
38	18.09	-9.19	0.8535	0.0154	0.3118	0.0180	0.3653	1.0142	0.0367	0.2804	0.0362	0.2764
39	18.08	-10.02	0.9504	0.0158	0.3353	0.0167	0.3528	1.0563	0.0367	0.2780	0.0348	0.2632
40	18.11	-10.78	1.0057	0.0159	0.3640	0.0159	0.3619	0.9814	0.0357	0.2725	0.0364	0.2777
41	18.12	-11.57	1.0741	0.0141	0.3876	0.0132	0.3609	0.9490	0.0348	0.2677	0.0367	0.2842
42	18.10	-12.33	1.1165	0.0159	0.4043	0.0143	0.3621	0.9512	0.0357	0.2587	0.0376	0.2719
43	18.12	-13.15	1.1701	0.0268	0.4037	0.0229	0.3450	0.9731	0.0374	0.2779	0.0384	0.2855
44	18.10	-14.00	1.2109	0.0343	0.4030	0.0283	0.3328	0.9723	0.0380	0.2784	0.0391	0.2863
45	18.14	-14.84	1.2189	0.0450	0.4025	0.0369	0.3303	0.9812	0.0370	0.2721	0.0377	0.2773
46	18.13	-15.63	1.2092	0.0464	0.3916	0.0384	0.3239	1.0171	0.0399	0.2894	0.0393	0.2846

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	154	0.92	1.7	0.0	BZHOFL2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	18.15	-16.47	1.0321	0.0496	0.3163	0.0480	0.3065	1.1111	0.0391	0.2963	0.0352	0.2667
48	18.15	-17.26	1.0200	0.0479	0.2595	0.0466	0.2911	1.0926	0.0393	0.2893	0.0360	0.2648
49	18.17	-18.16	0.9690	0.0310	0.2587	0.0320	0.3082	1.0360	0.0399	0.3023	0.0385	0.2918
50	18.16	-18.99	0.9525	0.0224	0.2798	0.0236	0.2937	1.1014	0.0411	0.3043	0.0373	0.2763
51	18.17	-19.79	0.8819	0.0207	0.2870	0.0235	0.3254	1.1507	0.0397	0.3246	0.0345	0.2821

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	155	0.94	1.7	U-U	H2WOF12	0.0	0	0	U	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	21.35	19.70	4.0030	-5.1772	-4.0787	5.1722	0.0700	-0.0769	-1.2933		
2	21.36	19.67	4.0164	-5.2550	-3.5529	5.2451	0.0620	-0.0805	-1.3084		
3	21.34	19.72	4.0135	-5.3699	-3.8879	5.1961	0.0710	-0.0913	-1.3380		
4	21.34	19.72	4.0200	-5.3290	-3.9230	5.1262	0.0610	-0.0586	-1.3256		
5	21.37	18.87	3.9862	-5.2267	-3.9410	5.1354	0.0800	-0.0788	-1.3112		
6	21.34	18.04	3.9328	-5.3359	-3.7674	5.0334	0.1360	-0.0593	-1.3568		
7	21.34	17.25	4.0012	-5.4557	-3.6055	4.9967	0.1900	-0.0523	-1.3635		
8	21.31	16.44	3.9125	-5.5185	-3.6058	5.5291	0.2940	-0.0543	-1.4105		
9	21.30	15.62	3.8180	-5.5112	-3.4565	5.7220	0.3630	-0.0604	-1.4435		
10	21.28	14.85	3.7589	-5.7364	-3.3676	5.8454	0.4109	-0.0616	-1.5201		
11	21.28	14.04	3.7948	-5.7507	-3.2358	5.8359	0.4439	-0.0456	-1.5154		
12	21.27	13.25	3.6877	-5.6917	-3.0268	5.7743	0.4889	-0.0110	-1.5434		
13	21.26	12.51	3.6724	-5.8793	-2.8230	5.4160	0.4609	-0.0340	-1.6009		
14	21.25	11.74	3.6783	-5.9555	-2.5928	5.0547	0.4519	-0.0071	-1.6191		
15	21.27	10.95	3.6178	-5.9288	-2.3945	4.8731	0.4849	0.0088	-1.6388		
16	21.24	10.06	3.6373	-6.1161	-2.2212	4.3835	0.4659	0.0060	-1.6615		
17	21.22	9.29	3.6185	-6.2898	-2.0252	3.9412	0.4459	0.0214	-1.7382		
18	21.20	8.43	3.6769	-6.4615	-1.8519	3.7904	0.4829	0.0276	-1.7573		
19	21.19	7.61	3.6732	-6.5543	-1.7052	3.3441	0.4939	0.0261	-1.7844		
20	21.20	6.80	3.7723	-6.6550	-1.4879	2.9050	0.4309	0.0332	-1.7642		
21	21.21	5.99	3.8893	-7.0928	-1.2297	2.3426	0.4349	0.0382	-1.8237		
22	21.18	5.04	3.9849	-7.6750	-1.1686	1.9061	0.4109	-0.0071	-1.9262		
23	21.16	4.34	3.8102	-7.2870	-0.9091	1.7836	0.3630	0.0314	-1.9125		
24	21.18	3.49	3.8830	-7.4569	-0.6911	1.3665	0.3190	0.0336	-1.9204		
25	21.15	2.79	3.9714	-7.8366	-0.4786	1.0840	0.2840	0.0127	-1.9733		
26	21.17	1.95	4.0367	-8.0240	-0.2588	0.5952	0.2290	-0.0011	-1.9878		
27	21.13	1.17	4.2457	-8.8907	-0.2384	0.3657	0.1210	-0.0502	-2.0940		
28	21.12	0.40	4.2473	-8.9839	-0.0836	0.2040	0.0100	-0.0451	-2.1152		
29	21.12	-0.32	4.2133	-8.8943	0.0586	-0.0490	-0.0500	-0.0430	-2.1110		
30	21.14	-1.20	4.1642	-8.7104	0.1395	-0.1773	-0.1700	-0.0270	-2.0918		
31	21.12	-1.99	4.0928	-8.4275	0.3023	-0.3342	-0.2580	-0.0055	-2.0591		
32	21.14	-2.87	3.9657	-7.9156	0.4707	-0.8430	-0.3420	0.0232	-1.9960		
33	21.17	-3.69	3.8462	-7.4402	0.5902	-1.2033	-0.3660	0.0405	-1.9334		
34	21.16	-4.49	3.8919	-7.4094	0.7925	-1.4445	-0.4039	0.0494	-1.9038		
35	21.18	-5.28	3.7718	-7.0183	0.9318	-1.8484	-0.4249	0.0480	-1.8607		
36	21.18	-6.05	3.7600	-6.9758	1.1889	-2.3634	-0.4609	0.0381	-1.8553		
37	21.18	-6.90	3.7322	-6.6529	1.4048	-2.8676	-0.4489	0.0461	-1.7826		
38	21.18	-7.69	3.6678	-6.4600	1.5683	-3.2545	-0.4619	0.0285	-1.7615		
39	21.20	-8.50	3.6364	-6.3728	1.8119	-3.6235	-0.4579	0.0196	-1.7525		
40	21.19	-9.30	3.6474	-6.3042	1.9188	-3.9212	-0.4389	0.0028	-1.7284		
41	21.22	-10.12	3.6850	-6.2289	2.1007	-4.2768	-0.4309	-0.0036	-1.6903		
42	21.21	-10.88	3.6706	-6.0587	2.3063	-4.7436	-0.4429	-0.0290	-1.6506		
43	21.21	-11.67	3.6960	-6.0963	2.4854	-4.9983	-0.4289	-0.0301	-1.6494		
44	21.19	-12.42	3.6831	-6.0252	2.6765	-5.2930	-0.4379	-0.0331	-1.6359		
45	21.22	-13.26	3.6874	-5.7833	2.8684	-5.4796	-0.4209	-0.0367	-1.5684		
46	21.22	-14.10	3.6950	-5.8589	2.9819	-5.4605	-0.3700	-0.0547	-1.5856		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	155	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	21.21	-14.95	3.7438	-5.8273	3.1127	-5.4666	-0.3230	-0.0711	-1.5565	
48	21.25	-15.76	3.7737	-5.5522	3.2528	-5.4658	-0.2620	-0.0651	-1.4713	
49	21.26	-16.63	3.9204	-5.7285	3.2411	-4.7865	-0.1270	-0.0551	-1.4612	
50	21.28	-17.45	3.9487	-5.7711	3.2853	-4.7064	-0.0830	-0.0527	-1.4615	
51	21.29	-18.37	4.0186	-5.6130	3.5215	-4.8362	0.0070	-0.0739	-1.3968	
52	21.29	-19.18	4.0175	-5.5175	3.6692	-4.8669	0.0500	-0.0653	-1.3734	
53	21.34	-19.95	4.0756	-5.3178	3.9479	-4.8381	0.0960	-0.0963	-1.3048	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	OEL4	TRANSITION		
6	155	0.92	1.7	0.0	B2WOF12	0.C	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.35	19.70	-0.5316	0.0612	-0.2137	-0.1151	0.4021	0.4467	0.0357	-0.0902	0.0800	-0.2019
2	21.36	19.67	-0.5633	0.0614	-0.2143	-0.1091	0.3804	0.4457	0.0357	-0.0857	0.0801	-0.1924
3	21.34	19.72	-0.5969	0.0582	-0.2299	-0.0976	0.3851	0.4586	0.0357	-0.0859	0.0778	-0.1874
4	21.34	19.72	-0.5298	0.0612	-0.2207	-0.1155	0.4166	0.4451	0.0357	-0.0848	0.0803	-0.1906
5	21.37	18.87	-0.5004	0.0609	-0.2126	-0.1218	0.4249	0.4359	0.0355	-0.0887	0.0815	-0.2035
6	21.34	18.04	-0.5023	0.0603	-0.2011	-0.1201	0.4003	0.4448	0.0355	-0.0954	0.0798	-0.2145
7	21.34	17.25	-0.4451	0.0600	-0.1900	-0.1347	0.4269	0.4283	0.0355	-0.0973	0.0830	-0.2272
8	21.31	16.44	-0.3855	0.0606	-0.1888	-0.1572	0.4899	0.4034	0.0358	-0.1019	0.0887	-0.2527
9	21.30	15.62	-0.3545	0.0573	-0.1686	-0.1616	0.4756	0.3575	0.0358	-0.1019	0.1001	-0.2851
10	21.28	14.85	-0.3443	0.0552	-0.1714	-0.1401	0.4346	0.3598	0.0360	-0.1099	0.1001	-0.3053
11	21.28	14.04	-0.3693	0.0565	-0.1701	-0.1531	0.4604	0.3514	0.0359	-0.1171	0.1021	-0.3331
12	21.27	13.25	-0.3140	0.0573	-0.1485	-0.1826	0.4730	0.3084	0.0361	-0.1280	0.1170	-0.4149
13	21.26	12.51	-0.3324	0.0571	-0.1531	-0.1717	0.4604	0.3442	0.0365	-0.1211	0.1060	-0.3517
14	21.25	11.74	-0.3243	0.0608	-0.1491	-0.1874	0.4596	0.3304	0.0362	-0.1278	0.1097	-0.3869
15	21.27	10.95	-0.2420	0.0550	-0.1203	-0.2272	0.4773	0.2770	0.0361	-0.1350	0.1304	-0.4874
16	21.24	10.06	-0.2329	0.0604	-0.1151	-0.2595	0.5114	0.2926	0.0362	-0.1398	0.1238	-0.4779
17	21.22	9.29	-0.1822	0.0612	-0.1164	-0.3361	0.6389	0.2464	0.0366	-0.1421	0.1485	-0.5767
18	21.20	8.43	-0.1402	0.0576	-0.0589	-0.4111	0.4202	0.2421	0.0373	-0.1424	0.1540	-0.5883
19	21.19	7.61	-0.0655	0.0625	-0.0514	-0.8591	0.7404	0.2121	0.0373	-0.1478	0.1761	-0.6970
20	21.20	6.80	-0.0859	0.0657	-0.0645	-0.7647	0.7511	0.2161	0.0372	-0.1535	0.1723	-0.7103
21	21.21	5.99	0.0366	0.0601	-0.0349	1.6418	-0.9537	0.2752	0.0379	-0.1423	0.1378	-0.5171
22	21.18	5.04	0.1425	0.0440	0.0127	0.3091	0.0890	0.3637	0.0430	-0.1118	0.1182	-0.3072
23	21.16	4.34	-0.0176	0.0522	-0.0252	-2.9654	1.4298	0.2953	0.0391	-0.1436	0.1325	-0.4864
24	21.18	3.44	-0.0054	0.0641	-0.0378	-11.8775	6.9999	0.2750	0.0386	-0.1479	0.1405	-0.5377
25	21.15	2.79	-0.0017	0.0625	-0.0381	-36.7581	22.3920	0.3037	0.0370	-0.1399	0.1285	-0.4607
26	21.17	1.95	0.0363	0.0571	-0.0363	1.5741	-1.0301	0.3379	0.0414	-0.1199	0.1225	-0.3547
27	21.13	1.17	0.0685	0.0153	0.0079	0.2240	0.1157	0.4452	0.0460	-0.0445	0.1034	-0.1000
28	21.12	0.40	-0.0408	0.0064	-0.0085	-0.1568	0.2082	0.4795	0.0461	-0.0352	0.0961	-0.0734
29	21.12	-0.32	-0.0279	0.0115	-0.0315	-0.4139	1.1289	0.4597	0.0442	-0.0198	0.0961	-0.0430
30	21.14	-1.20	-0.0747	-0.0196	-0.0198	0.2623	0.2649	0.5453	0.0302	-0.0118	0.0700	-0.0216
31	21.12	-1.99	-0.1576	-0.0304	-0.0225	0.1929	0.1429	0.5135	0.0364	-0.0144	0.0709	-0.0280
32	21.14	-2.87	-0.1359	-0.0363	-0.0224	0.2674	0.1647	0.4748	0.0351	-0.0161	0.0740	-0.0338
33	21.17	-3.69	-0.0997	-0.0508	-0.0160	0.5094	0.1607	0.4424	0.0339	-0.0267	0.0767	-0.0605
34	21.16	-4.49	-0.1502	-0.0658	0.0076	0.4383	-0.0509	0.4858	0.0326	-0.0477	0.0672	-0.0981
35	21.18	-5.28	-0.1004	-0.0663	0.0205	0.6602	-0.2046	0.4753	0.0312	-0.0548	0.0657	-0.1152
36	21.18	-6.05	-0.0639	-0.0621	0.0164	0.9724	-0.2568	0.4711	0.0308	-0.0629	0.0652	-0.1330
37	21.18	-6.90	0.0043	-0.0675	0.0498	-15.7065	11.5090	0.4274	0.0206	-0.0730	0.0670	-0.1709
38	21.18	-7.69	0.0552	-0.0641	0.0520	-1.1610	0.9419	0.4142	0.0273	-0.0700	0.0660	-0.1884
39	21.20	-8.50	0.1022	-0.0644	0.0753	-0.6105	0.7373	0.3760	0.0254	-0.0869	0.0677	-0.2310
40	21.19	-9.30	0.1399	-0.0630	0.0853	-0.4506	0.6098	0.3987	0.0242	-0.0999	0.0607	-0.2505
41	21.22	-10.12	0.1608	-0.0657	0.1087	-0.4085	0.6759	0.3894	0.0226	-0.1153	0.0581	-0.2961
42	21.21	-10.88	0.1673	-0.0629	0.1189	-0.3759	0.7110	0.3806	0.0213	-0.1229	0.0559	-0.3229
43	21.21	-11.67	0.2153	-0.0629	0.1201	-0.2923	0.5580	0.3650	0.0195	-0.1345	0.0534	-0.3685
44	21.19	-12.42	0.2734	-0.0606	0.1299	-0.2216	0.4751	0.3533	0.0173	-0.1424	0.0489	-0.4031
45	21.22	-13.26	0.2909	-0.0643	0.1450	-0.2209	0.4985	0.3480	0.0149	-0.1534	0.0428	-0.4407
46	21.22	-14.10	0.3305	-0.0653	0.1553	-0.1982	0.4699	0.3495	0.0135	-0.1656	0.0386	-0.4737

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	155	0.92	1.7	0.0	82WUFI2	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.21	-14.95	0.3827	-0.0639	0.1609	-0.1669	0.4205	0.3288	0.0128	-0.1788	0.0389	-0.5436
48	21.25	-15.76	0.4206	-0.0648	0.1835	-0.1540	0.4361	0.2894	0.0115	-0.1858	0.0397	-0.6419
49	21.26	-16.63	0.4407	-0.0658	0.1963	-0.1494	0.4455	0.2811	0.0112	-0.1841	0.0398	-0.6547
50	21.28	-17.45	0.4828	-0.0652	0.2014	-0.1351	0.4171	0.2457	0.0102	-0.1921	0.0417	-0.7820
51	21.29	-18.37	0.5372	-0.0677	0.2206	-0.1260	0.4106	0.2040	0.0109	-0.2100	0.0534	-1.0295
52	21.29	-19.18	0.5893	-0.0673	0.2236	-0.1142	0.3794	0.1562	0.0108	-0.2131	0.0691	-1.3646
53	21.34	-19.95	0.6108	-0.0671	0.2392	-0.1098	0.3917	0.1479	0.0108	-0.2247	0.0733	-1.5194

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	155	0.92	1.7	0.0	82NOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	21.35	19.70	-0.9045	-0.0233	-0.3467	0.0258	0.3833	0.6333	-0.0589	0.2414	-0.0931	0.3812
2	21.36	19.67	-0.9199	-0.0236	-0.3351	0.0256	0.3686	0.6540	-0.0584	0.2390	-0.0893	0.3655
3	21.34	19.72	-0.9584	-0.0236	-0.3418	0.0247	0.3566	0.7340	-0.0556	0.2444	-0.0758	0.3329
4	21.34	19.72	-0.9071	-0.0219	-0.3389	0.0242	0.3736	0.6371	-0.0595	0.2408	-0.0934	0.3779
5	21.37	18.87	-0.9179	-0.0237	-0.3365	0.0258	0.3665	0.6788	-0.0585	0.2348	-0.0862	0.3459
6	21.34	18.04	-0.9524	-0.0367	-0.3434	0.0385	0.3605	0.6754	-0.0548	0.2514	-0.0885	0.3723
7	21.34	17.25	-0.9871	-0.0457	-0.3476	0.0463	0.3522	0.7228	-0.0593	0.2542	-0.0820	0.3518
8	21.31	16.44	-1.1119	-0.0461	-0.4100	0.0411	0.3655	0.6906	-0.0613	0.2636	-0.0888	0.3817
9	21.30	15.62	-1.1286	-0.0467	-0.4271	0.0414	0.3784	0.7591	-0.0571	0.2660	-0.0753	0.3505
10	21.28	14.85	-1.1316	-0.0384	-0.4415	0.0340	0.3901	0.8341	-0.0497	0.2866	-0.0596	0.3436
11	21.28	14.04	-1.1137	-0.0239	-0.4516	0.0215	0.4055	0.8538	-0.0461	0.2901	-0.0540	0.3398
12	21.27	13.25	-1.0866	-0.0146	-0.4526	0.0134	0.4165	0.8310	-0.0420	0.2953	-0.0505	0.3554
13	21.26	12.51	-1.0161	-0.0145	-0.4310	0.0143	0.4241	0.9256	-0.0288	0.3018	-0.0312	0.3261
14	21.25	11.74	-0.9646	-0.0141	-0.4023	0.0147	0.4171	0.9268	-0.0273	0.3083	-0.0294	0.3327
15	21.27	10.95	-0.8710	-0.0169	-0.3854	0.0194	0.4425	1.0161	-0.0200	0.3082	-0.0197	0.3033
16	21.24	10.06	-0.7929	-0.0171	-0.3576	0.0216	0.4510	0.9881	-0.0139	0.3169	-0.0201	0.3207
17	21.22	9.29	-0.6916	-0.0178	-0.3325	0.0257	0.4808	0.9993	-0.0172	0.3259	-0.0172	0.3261
18	21.20	8.43	-0.6684	-0.0182	-0.3096	0.0272	0.4632	1.0274	-0.0119	0.3393	-0.0116	0.3363
19	21.19	7.61	-0.5542	-0.0172	-0.2601	0.0311	0.5055	1.0302	-0.0116	0.3325	-0.0112	0.3203
20	21.20	6.80	-0.4748	-0.0163	-0.2495	0.0344	0.5255	1.0571	-0.0114	0.3297	-0.0108	0.3119
21	21.21	5.99	-0.4333	-0.0167	-0.2141	0.0385	0.4940	1.0662	-0.0077	0.3440	-0.0071	0.3167
22	21.18	5.04	-0.3417	-0.0164	-0.1898	0.0480	0.5553	1.1162	0.0010	0.3558	0.0009	0.3188
23	21.16	4.34	-0.2817	-0.0147	-0.1585	0.0523	0.5625	1.1046	-0.0034	0.3601	-0.0031	0.3260
24	21.18	3.49	-0.1689	-0.0099	-0.1356	0.0589	0.8027	1.1421	-0.0020	0.3580	-0.0018	0.3134
25	21.15	2.79	-0.1066	-0.0080	-0.1070	0.0750	1.0039	1.1516	0.0007	0.3626	0.0007	0.3149
26	21.17	1.95	-0.0625	-0.0063	-0.0751	0.1008	1.2020	1.1921	0.0018	0.3720	0.0016	0.3121
27	21.13	1.17	-0.0326	-0.0051	-0.0441	0.1579	1.3516	1.1968	0.0239	0.3548	0.0200	0.2965
28	21.12	0.40	0.0646	-0.0046	-0.0116	-0.0720	-0.1792	1.1807	0.0243	0.3535	0.0206	0.2994
29	21.12	-0.32	0.1331	-0.0029	0.0027	-0.0222	0.0199	1.2024	0.0288	0.3383	0.0240	0.2813
30	21.14	-1.20	0.1620	-0.0010	0.0355	-0.0065	0.2190	1.0156	0.0257	0.3022	0.0253	0.2976
31	21.12	-1.99	0.2110	0.0016	0.0703	0.0078	0.3332	0.9892	0.0238	0.2812	0.0241	0.2843
32	21.14	-2.87	0.3230	0.0050	0.0992	0.0156	0.3072	0.8957	0.0223	0.2649	0.0249	0.2957
33	21.17	-3.69	0.3519	0.0084	0.1305	0.0240	0.3707	0.8503	0.0177	0.2450	0.0209	0.2881
34	21.16	-4.49	0.4508	0.0117	0.1575	0.0259	0.3494	0.8521	0.0123	0.2310	0.0145	0.2710
35	21.18	-5.28	0.5127	0.0135	0.1848	0.0263	0.3605	0.7436	0.0109	0.2238	0.0147	0.3009
36	21.18	-6.05	0.5933	0.0150	0.2178	0.0253	0.3671	0.7458	0.0113	0.2276	0.0152	0.3052
37	21.18	-6.90	0.6288	0.0155	0.2522	0.0246	0.4011	0.7504	0.0132	0.2218	0.0136	0.2956
38	21.18	-7.69	0.7098	0.0173	0.2707	0.0245	0.3948	0.7319	0.0109	0.2217	0.0149	0.3111
39	21.20	-8.50	0.7978	0.0182	0.3071	0.0228	0.3850	0.7649	0.0101	0.2254	0.0132	0.2947
40	21.19	-9.30	0.8673	0.0197	0.3268	0.0227	0.3768	0.8113	0.0089	0.2375	0.0110	0.2928
41	21.22	-10.12	0.9874	0.0190	0.3488	0.0193	0.3533	0.8294	0.0094	0.2448	0.0114	0.2951
42	21.21	-10.88	1.0910	0.0194	0.3692	0.0178	0.3384	0.8794	0.0082	0.2375	0.0093	0.2700
43	21.21	-11.67	1.1283	0.0147	0.3455	0.0175	0.3505	0.8542	0.0094	0.2529	0.0110	0.2960
44	21.19	-12.42	1.1958	0.0212	0.4133	0.0177	0.3457	0.8897	0.0084	0.2564	0.0094	0.2882
45	21.22	-13.26	1.2345	0.0290	0.4184	0.0235	0.3390	0.9015	0.0087	0.2518	0.0096	0.2793
46	21.22	-14.10	1.2046	0.0404	0.4234	0.0336	0.3515	0.9351	0.0083	0.2682	0.0089	0.2868

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RK10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	155	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.21	-14.95	1.2840	0.0505	0.3929	0.0394	0.3060	0.9561	0.0075	0.2775	0.0078	0.2902
48	21.25	-15.76	1.2494	0.0480	0.3530	0.0384	0.3146	0.9509	0.0075	0.2792	0.0079	0.2936
49	21.26	-16.63	1.0731	0.0496	0.3201	0.0462	0.2983	0.9752	0.0070	0.2863	0.0072	0.2935
50	21.28	-17.45	1.0614	0.0482	0.3137	0.0454	0.2955	1.0208	0.0065	0.2908	0.0064	0.2848
51	21.29	-18.37	0.9751	0.0259	0.3176	0.0266	0.3257	1.0235	0.0069	0.2956	0.0068	0.2888
52	21.29	-19.18	0.9677	0.0213	0.3088	0.0220	0.3191	1.0496	0.0066	0.2974	0.0063	0.2833
53	21.34	-19.95	1.0013	0.0195	0.3022	0.0195	0.3018	1.0479	0.0072	0.3048	0.0069	0.2909

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	156	0.97	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.0	19.98	0.1390	-0.1326	-4.0798	8.7523	-0.0050	0.0838	-0.9540	
2	0.02	19.60	0.1259	-0.0932	-4.1094	8.7227	-0.0070	0.0865	-0.7407	
3	0.01	18.89	0.1391	-0.1857	-3.9189	8.5930	-0.0160	0.0831	-1.3353	
4	-0.01	18.08	0.1131	-0.1243	-3.8410	8.5130	-0.0270	0.0818	-1.0994	
5	0.0	17.28	0.0487	0.0708	-3.7029	8.2997	-0.0150	0.0920	1.4542	
6	0.01	16.46	0.0029	0.2439	-3.4664	7.9726	-0.0030	0.0865	84.1172	
7	0.01	15.70	-0.0040	0.2256	-3.2677	7.6223	-0.0010	0.0857	-56.4001	
8	0.02	14.94	0.0264	0.1520	-3.0876	7.2572	0.0010	0.0460	5.7591	
9	0.01	14.15	0.0050	0.1260	-2.8681	6.9180	-0.0130	0.1143	25.2000	
10	0.0	13.34	-0.0238	0.1373	-2.6753	6.5481	-0.0110	0.1299	-5.7697	
11	0.01	12.64	-0.0203	0.1924	-2.5247	6.1862	0.0030	0.1214	-9.4788	
12	-0.01	11.83	-0.0024	0.1583	-2.3361	5.7692	0.0040	0.1289	-65.9833	
13	0.01	11.05	-0.0141	0.1557	-2.2336	5.4917	0.0100	0.1253	-11.0454	
14	-0.01	10.23	-0.0060	0.0894	-2.0045	5.0971	0.0070	0.1368	-14.5000	
15	-0.01	9.43	-0.0050	0.0880	-1.8188	4.7550	0.0070	0.1394	-17.6000	
16	0.01	8.59	-0.0040	0.0786	-1.6826	4.3224	0.0130	0.1461	-19.6500	
17	0.0	7.81	0.0036	0.0170	-1.4931	3.8691	0.0120	0.1430	4.7111	
18	0.0	7.02	0.0085	-0.0029	-1.3581	3.4772	0.0170	0.1391	-0.3412	
19	-0.01	6.30	0.0121	0.0101	-1.1696	3.0723	0.0120	0.1400	0.6314	
20	0.0	5.39	0.0252	-0.0343	-1.0013	2.6056	0.0150	0.1348	-1.3603	
21	0.0	4.62	0.0171	-0.0309	-0.8468	2.2414	0.0180	0.1399	-1.8094	
22	-0.01	3.81	0.0103	-0.0514	-0.6867	1.8263	0.0180	0.1431	-4.9922	
23	0.0	3.06	0.0232	-0.0555	-0.5946	1.4814	0.0090	0.1474	-2.3914	
24	0.0	2.27	0.0247	-0.0576	-0.4346	1.0984	0.0120	0.1537	-2.3312	
25	-0.01	1.54	0.0451	-0.0741	-0.2873	0.7171	0.0120	0.1594	-1.6439	
26	-0.01	0.76	0.0350	-0.0590	-0.1282	0.3424	0.0110	0.1650	-1.6857	
27	0.0	0.02	0.0275	-0.0365	-0.0231	0.0963	0.0110	0.1661	-1.3273	
28	0.0	-0.80	0.0170	-0.0418	0.1025	-0.1915	0.0140	0.1598	-2.4588	
29	0.0	-1.58	0.0386	-0.0790	0.2185	-0.4968	0.0110	0.1642	-2.0477	
30	0.0	-2.34	0.0327	-0.0508	0.3971	-0.8800	0.0110	0.1665	-1.5529	
31	0.0	-3.21	0.0415	-0.0881	0.4400	-1.2070	0.0110	0.1736	-2.1229	
32	0.0	-4.03	0.0208	-0.0761	0.6615	-1.6150	0.0090	0.1923	-3.6596	
33	0.0	-4.77	0.0429	-0.0511	0.8064	-2.0518	0.0100	0.2176	-1.1902	
34	0.0	-5.58	0.0527	-0.1088	0.9337	-2.3890	0.0140	0.2322	-2.0641	
35	0.0	-6.34	0.0408	-0.0821	1.0795	-2.7401	0.0130	0.2335	-2.0127	
36	-0.01	-7.13	0.0368	-0.0605	1.2523	-3.2051	0.0110	0.2438	-1.6446	
37	-0.01	-7.96	0.0512	-0.0897	1.4057	-3.5828	0.0100	0.2317	-1.7516	
38	0.0	-8.71	0.0350	-0.0640	1.5995	-4.0101	0.0090	0.2045	-1.8286	
39	0.0	-9.54	0.0359	-0.1082	1.7538	-4.3440	0.0120	0.1754	-3.0156	
40	0.0	-10.30	0.0607	-0.1530	1.8505	-4.7829	0.0090	0.1649	-2.5203	
41	0.0	-11.08	0.0397	-0.0866	2.0980	-5.2209	0.0100	0.1306	-2.1809	
42	0.0	-11.83	0.0161	-0.0615	2.2573	-5.6079	0.0030	0.1308	-3.8224	
43	0.0	-12.65	0.0294	-0.1231	2.4202	-6.0119	-0.0040	0.1174	-4.1891	
44	0.0	-13.39	0.0005	-0.0517	2.6347	-6.4262	-0.0150	0.1209	-103.4000	
45	0.0	-14.24	0.0012	-0.0667	2.8242	-6.8065	-0.0260	0.1304	-55.5667	
46	0.0	-15.09	0.0103	-0.0794	2.9824	-7.0057	-0.0220	0.1297	-7.7107	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 156 0.97 1.7 0.0 82 0.12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.0	-15.89	0.0288	-0.1073	3.1593	-7.3826	-0.0230	0.1454	-3.7264
48	0.0	-16.69	0.0094	-0.0712	3.3676	-7.6512	-0.0180	0.1333	-7.5702
49	-0.01	-17.54	-0.0136	-0.0620	3.5817	-8.0420	-0.0170	0.1281	4.5559
50	-0.01	-18.43	-0.0017	-0.0656	3.6991	-8.2934	-0.0090	0.1320	38.6000
51	0.0	-19.27	0.0565	-0.1021	3.9369	-8.5852	-0.0020	0.1342	-1.8071
52	-0.01	-20.02	0.0502	-0.1453	4.1090	-8.5992	0.0070	0.1210	-2.8940

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6	156	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	19.98	-1.2422	-0.0174	-0.3574	0.0140	0.2877	-0.4541	0.0304	-0.3235	-0.0670	0.7123
2	0.02	19.60	-1.2731	-0.0162	-0.3538	0.0128	0.2779	-0.4323	0.0308	-0.3271	-0.0712	0.7567
3	0.01	18.89	-1.2467	-0.0145	-0.3589	0.0117	0.2879	-0.4687	0.0308	-0.3261	-0.0657	0.6956
4	-0.01	18.08	-1.2591	-0.0096	-0.3574	0.0076	0.2838	-0.4701	0.0304	-0.3221	-0.0646	0.6852
5	0.0	17.28	-1.2030	-0.0091	-0.3527	0.0076	0.2932	-0.4689	0.0306	-0.3242	-0.0652	0.6914
6	0.01	16.46	-1.1722	-0.0081	-0.3347	0.0070	0.2855	-0.4849	0.0303	-0.3269	-0.0625	0.6742
7	0.01	15.70	-1.1311	-0.0080	-0.3224	0.0071	0.2850	-0.4386	0.0304	-0.3289	-0.0694	0.7499
8	0.02	14.94	-1.0515	-0.0051	-0.3155	0.0048	0.2994	-0.4464	0.0302	-0.3269	-0.0676	0.7323
9	0.01	14.15	-1.0515	-0.0040	-0.3052	0.0038	0.2902	-0.4350	0.0303	-0.3263	-0.0696	0.7501
10	0.0	13.34	-0.9606	-0.0020	-0.3038	0.0021	0.3162	-0.4578	0.0300	-0.3259	-0.0655	0.7119
11	0.01	12.64	-0.9271	-0.0015	-0.2893	0.0017	0.3121	-0.4464	0.0304	-0.3317	-0.0681	0.7431
12	-0.01	11.83	-0.9024	-0.0014	-0.2683	0.0016	0.2973	-0.4627	0.0305	-0.3276	-0.0659	0.7079
13	0.01	11.05	-0.8535	-0.0001	-0.2570	0.0002	0.3011	-0.4734	0.0305	-0.3304	-0.0644	0.6979
14	-0.01	10.23	-0.7705	0.0009	-0.2485	-0.0012	0.3226	-0.4763	0.0304	-0.3252	-0.0639	0.6827
15	-0.01	9.43	-0.7652	0.0006	-0.2298	-0.0008	0.3003	-0.4669	0.0301	-0.3314	-0.0645	0.7097
16	0.01	8.59	-0.6661	0.0007	-0.2215	-0.0011	0.3326	-0.5081	0.0302	-0.3261	-0.0594	0.6418
17	0.0	7.81	-0.6188	0.0014	-0.1565	-0.0023	0.3182	-0.4583	0.0301	-0.3287	-0.0658	0.7172
18	0.0	7.02	-0.5560	0.0003	-0.1827	-0.0005	0.3285	-0.4541	0.0300	-0.3327	-0.0661	0.7326
19	-0.01	6.30	-0.4818	0.0009	-0.1675	-0.0019	0.3486	-0.4575	0.0300	-0.3356	-0.0657	0.7336
20	0.0	5.39	-0.4194	0.0007	-0.1477	-0.0018	0.3520	-0.4681	0.0299	-0.3325	-0.0640	0.7102
21	0.0	4.62	-0.3442	0.0003	-0.1263	-0.0010	0.3669	-0.4542	0.0302	-0.3345	-0.0665	0.7365
22	-0.01	3.81	-0.2893	0.0003	-0.1075	-0.0010	0.3716	-0.4522	0.0299	-0.3346	-0.0661	0.7398
23	0.0	3.06	-0.2537	0.0007	-0.0833	-0.0030	0.3285	-0.4736	0.0300	-0.3302	-0.0634	0.6972
24	0.0	2.27	-0.2068	0.0009	-0.0633	-0.0046	0.3061	-0.4736	0.0299	-0.3347	-0.0631	0.7067
25	-0.01	1.54	-0.1182	0.0007	-0.0510	-0.0059	0.4314	-0.4476	0.0300	-0.3363	-0.0671	0.7514
26	-0.01	0.76	-0.0691	0.0001	-0.0215	-0.0022	0.3115	-0.4566	0.0300	-0.3369	-0.0657	0.7379
27	0.0	0.02	0.0054	-0.0000	-0.0102	-0.0093	-1.8890	-0.5019	0.0300	-0.3340	-0.0598	0.6655
28	0.0	-0.80	0.0304	-0.0003	0.0137	-0.0099	0.4516	-0.4900	0.0303	-0.3368	-0.0618	0.6874
29	0.0	-1.58	0.0788	-0.0007	0.0298	-0.0089	0.3776	-0.4884	0.0301	-0.3346	-0.0617	0.6851
30	0.0	-2.34	0.1556	-0.0018	0.0483	-0.0116	0.3107	-0.5136	0.0301	-0.3356	-0.0587	0.6534
31	0.0	-3.21	0.1876	-0.0033	0.0726	-0.0176	0.3871	-0.5120	0.0301	-0.3335	-0.0589	0.6513
32	0.0	-4.03	0.2846	-0.0046	0.0876	-0.0163	0.3076	-0.5259	0.0304	-0.3358	-0.0579	0.6385
33	0.0	-4.77	0.3180	-0.0044	0.1153	-0.0140	0.3625	-0.4992	0.0301	-0.3362	-0.0603	0.6735
34	0.0	-5.58	0.3886	-0.0063	0.1348	-0.0162	0.3468	-0.5084	0.0301	-0.3316	-0.0593	0.6522
35	0.0	-6.34	0.4531	-0.0068	0.1529	-0.0150	0.3374	-0.5306	0.0301	-0.3281	-0.0560	0.6092
36	-0.01	-7.13	0.5086	-0.0073	0.1732	-0.0143	0.3405	-0.4961	0.0298	-0.3323	-0.0600	0.6698
37	-0.01	-7.96	0.5622	-0.0082	0.1945	-0.0146	0.3460	-0.5530	0.0302	-0.3258	-0.0546	0.5892
38	0.0	-8.71	0.5930	-0.0095	0.2155	-0.0161	0.3634	-0.5147	0.0299	-0.3294	-0.0582	0.6399
39	0.0	-9.54	0.6830	-0.0088	0.2237	-0.0129	0.3275	-0.5630	0.0299	-0.3267	-0.0532	0.5802
40	0.0	-10.30	0.7431	-0.0080	0.2341	-0.0108	0.3151	-0.5133	0.0304	-0.3294	-0.0592	0.6417
41	0.0	-11.08	0.7784	-0.0057	0.2547	-0.0073	0.3272	-0.4961	0.0306	-0.3366	-0.0618	0.6784
42	0.0	-11.83	0.8743	-0.0065	0.2619	-0.0074	0.2996	-0.4867	0.0310	-0.3374	-0.0637	0.6933
43	0.0	-12.65	0.9146	-0.0056	0.2734	-0.0062	0.2989	-0.4889	0.0306	-0.3379	-0.0627	0.6911
44	0.0	-13.39	0.9595	-0.0030	0.2866	-0.0032	0.2987	-0.5014	0.0306	-0.3314	-0.0611	0.6610
45	0.0	-14.24	0.9690	-0.0022	0.3052	-0.0023	0.3162	-0.4803	0.0304	-0.3324	-0.0633	0.6921
46	0.0	-15.09	1.0132	-0.0010	0.3053	-0.0010	0.3013	-0.4625	0.0289	-0.3319	-0.0625	0.7176

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		156	0.97	1.7	0.0	82WOF12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	0.0	-15.89	1.0553	-0.0008	0.3208	-0.0008	0.3040	-0.4437	0.0290	-0.3352	-0.0653	0.7555
48	0.0	-16.69	1.0872	-0.0009	0.3323	-0.0008	0.3056	-0.4968	0.0286	-0.3294	-0.0575	0.6631
49	-0.01	-17.54	1.1641	-0.0016	0.3371	-0.0014	0.2896	-0.4882	0.0278	-0.3290	-0.0569	0.6740
50	-0.01	-18.43	1.2157	-0.0017	0.3437	-0.0014	0.2827	-0.4469	0.0285	-0.3366	-0.0639	0.7531
51	0.0	-19.27	1.1937	-0.0008	0.3662	-0.0007	0.3067	-0.4952	0.0279	-0.3316	-0.0563	0.6696
52	-0.01	-20.02	1.2378	0.0086	0.3479	0.0070	0.2810	-0.4761	0.0306	-0.3336	-0.0642	0.7007

MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART MACH RX10-6										PH1 CNF3				L DEL1 DEL2 DEL3 DEL4 TRANSITION			
		6 156 0.97 1.7										0.0 B2W0F12 0.0				0 0 0 0 0 FIXED			
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4							
1	0.0	19.98	-1.0440	-0.0126	-0.4048	0.0121	0.3877	-0.0031	0.0141	-0.0085	-4.5476	2.7526							
2	0.02	19.60	-1.0415	-0.0131	-0.4117	0.0120	0.3953	-0.0030	0.0136	-0.0107	-0.3777	0.2971							
3	0.01	18.89	-1.0273	-0.0111	-0.3573	0.0108	0.3886	-0.0188	0.0168	-0.0094	-0.8961	0.4981							
4	-0.01	18.08	-1.0167	-0.0110	-0.3951	0.0109	0.3886	-0.0084	0.0126	-0.0144	-1.4997	1.7142							
5	0.0	17.28	-0.9524	-0.0080	-0.4024	0.0084	0.4225	-0.0328	0.0103	-0.0176	-0.3140	0.5375							
6	0.01	18.46	-0.9707	-0.0079	-0.3508	0.0082	0.4026	-0.0420	-0.0014	-0.0063	-0.0340	0.1478							
7	0.01	15.70	-0.9355	-0.0061	-0.3820	0.0065	0.4083	-0.0459	0.0005	-0.0100	-0.0109	0.2177							
8	0.02	14.94	-0.8930	-0.0061	-0.3710	0.0069	0.4154	-0.0359	-0.0041	-0.0004	0.1142	0.0101							
9	0.01	14.15	-0.8356	-0.0047	-0.3551	0.0050	0.4298	-0.0643	-0.0001	-0.0084	0.0023	0.1310							
10	0.0	13.34	-0.8195	-0.0043	-0.3414	0.0052	0.4167	-0.0810	-0.0025	-0.0009	0.0009	-0.0112							
11	0.01	12.64	-0.7546	-0.0052	-0.3310	0.0069	0.4387	-0.0481	-0.0030	0.0037	0.0634	-0.0763							
12	-0.01	11.83	-0.7294	-0.0055	-0.3111	0.0075	0.4266	-0.0136	-0.0048	0.0004	0.3566	-0.0271							
13	0.01	11.05	-0.6603	-0.0056	-0.3014	0.0085	0.4265	-0.0312	-0.0040	0.0110	0.1474	-0.3527							
14	-0.01	10.23	-0.5869	-0.0052	-0.2911	0.0089	0.4961	-0.0313	-0.0041	0.0110	0.1326	-0.3505							
15	-0.01	9.43	-0.5920	-0.0056	-0.2635	0.0095	0.4452	-0.0050	-0.0036	0.0091	0.7299	-1.8268							
16	0.01	8.59	-0.5162	-0.0053	-0.2560	0.0103	0.4959	-0.0052	-0.0029	0.0092	0.5672	-1.7629							
17	0.0	7.81	-0.4848	-0.0054	-0.2321	0.0112	0.4786	-0.0052	-0.0029	0.0092	0.5672	-1.7629							
18	0.0	7.02	-0.4162	-0.0061	-0.2145	0.0147	0.5163	0.0013	-0.0035	0.0136	-2.6918	10.4871							
19	-0.01	6.30	-0.3432	-0.0057	-0.1978	0.0167	0.5762	0.0170	-0.0025	0.0042	-0.1500	0.5391							
20	0.0	5.39	-0.3260	-0.0055	-0.1670	0.0169	0.5123	-0.0069	-0.0024	0.0159	0.3550	-2.3045							
21	0.0	4.62	-0.2667	-0.0056	-0.1472	0.0212	0.5522	0.0049	-0.0020	0.0125	-0.4183	2.5577							
22	-0.01	3.81	-0.1931	-0.0054	-0.1261	0.0280	0.6533	0.0048	-0.0022	0.0132	-0.4687	2.7499							
23	0.0	3.06	-0.1743	-0.0048	-0.1001	0.0278	0.5742	0.0016	-0.0015	0.0103	-0.4373	6.4582							
24	0.0	2.27	-0.0977	-0.0040	-0.0789	0.0409	0.8081	0.0245	-0.0015	0.0077	-0.0633	0.3128							
25	-0.01	1.54	-0.0438	-0.0047	-0.0617	0.1084	1.4086	0.0356	-0.0006	0.0064	-0.0169	0.1787							
26	-0.01	0.76	0.0030	-0.0049	-0.0370	-1.6330	-12.3335	0.0165	-0.0006	0.0092	-0.0364	0.5575							
27	0.0	0.02	0.0196	-0.0045	-0.0074	-0.2321	-0.3760	-0.0138	-0.0009	0.0121	0.0652	-0.8769							
28	0.0	-0.80	0.0432	-0.0038	-0.0005	-0.0408	-0.0101	0.0485	-0.0014	0.0003	-0.0289	0.0054							
29	0.0	-1.58	0.1305	-0.0030	0.0221	-0.0230	0.1692	0.0015	-0.0009	0.0103	-0.5999	6.8665							
30	0.0	-2.34	0.1689	-0.0029	0.0491	-0.0172	0.2906	-0.0057	-0.0010	0.0092	0.1754	-1.6142							
31	0.0	-3.21	0.2083	-0.0017	0.0745	-0.0084	0.3577	-0.0223	-0.0008	0.0164	0.0359	-0.7540							
32	0.0	-4.03	0.2692	-0.0009	0.0955	-0.0033	0.3548	-0.0483	-0.0004	0.0154	0.0093	-0.3190							
33	0.0	-4.77	0.3623	0.0008	0.1145	0.0023	0.3161	-0.0125	-0.0003	0.0060	0.0280	-0.4828							
34	0.0	-5.58	0.3518	0.0010	0.1446	0.0030	0.4111	-0.0131	-0.0005	0.0093	0.0420	-0.7126							
35	0.0	-6.34	0.4364	0.0008	0.1585	0.0019	0.3636	-0.0130	-0.0005	0.0087	0.0423	-0.6668							
36	-0.01	-7.13	0.4980	0.0025	0.1778	0.0051	0.3571	-0.0392	-0.0008	0.0116	0.0217	-0.2969							
37	-0.01	-7.96	0.4898	0.0037	0.2082	0.0077	0.4251	-0.0419	-0.0011	0.0087	0.0274	-0.2086							
38	0.0	-8.71	0.5477	0.0048	0.2211	0.0089	0.4037	-0.0223	-0.0011	0.0033	0.0516	-0.1466							
39	0.0	-9.54	0.5828	0.0056	0.2393	0.0097	0.4106	-0.0344	-0.0004	0.0026	0.0135	-0.0770							
40	0.0	-10.30	0.6795	0.0083	0.2500	0.0123	0.3679	-0.0161	-0.0008	0.0064	0.0528	-0.3997							
41	0.0	-11.08	0.7367	0.0097	0.2602	0.0132	0.3532	-0.0297	-0.0008	0.0015	0.0286	-0.0506							
42	0.0	-11.83	0.7539	0.0105	0.2803	0.0140	0.3718	-0.0413	-0.0004	0.0021	0.0109	-0.0518							
43	0.0	-12.65	0.8493	0.0112	0.2913	0.0132	0.3430	-0.0381	-0.0003	0.0037	0.0092	-0.0972							
44	0.0	-13.39	0.8976	0.0126	0.3075	0.0141	0.3426	-0.0493	-0.0004	0.0037	0.0091	-0.0745							
45	0.0	-14.24	0.9077	0.0147	0.3270	0.0162	0.3609	-0.0493	-0.0009	0.0037	0.0183	-0.0745							
46	0.0	-15.09	0.9239	0.0170	0.3395	0.0193	0.3678	-0.0338	-0.0008	0.0019	0.0251	-0.0573							

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.0	-15.89	0.9048	0.0223	0.3479	0.0231	0.3606	-0.0377	-0.0010	0.0023	0.0265	-0.0620
48	0.0	-16.69	1.0034	0.0235	0.3581	0.0234	0.3569	-0.0443	-0.0009	0.0037	0.0183	-0.0745
49	-0.01	-17.54	1.0775	0.0237	0.3601	0.0220	0.3342	-0.0333	-0.0004	-0.0008	0.0135	0.0239
50	-0.01	-18.43	1.0887	0.0237	0.3681	0.0218	0.3381	-0.0169	-0.0004	-0.0060	0.0266	0.3569
51	0.0	-19.27	1.1396	0.0303	0.3559	0.0266	0.3123	-0.0242	-0.0014	-0.0058	0.0578	0.2382
52	-0.01	-20.02	1.1050	0.0346	0.3620	0.0313	0.3276	-0.0606	-0.0012	0.0043	0.0198	-0.0711

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 157 0.97 1.7 0.0 B2WUFL2 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION										
0 0 0 0 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.07	19.88	0.2547	0.0864	-3.8432	8.2021	-0.1730	0.0907	0.3393	
2	3.06	19.50	0.2633	0.0974	-3.8856	8.0355	-0.1760	0.0861	0.3698	
3	3.05	18.74	0.2889	0.0535	-3.8650	8.0616	-0.1600	0.0773	0.1853	
4	3.08	17.97	0.2890	0.1404	-3.7624	8.0950	-0.1350	0.0684	0.4858	
5	3.06	17.14	0.2674	0.0626	-3.6164	8.0246	-0.1140	0.0710	0.2343	
6	3.07	16.37	0.3061	-0.0215	-3.4205	7.7632	-0.0850	0.0733	-0.0704	
7	3.04	15.61	0.3244	-0.0811	-3.2328	7.5495	-0.0520	0.0790	-0.2502	
8	3.05	14.81	0.3256	-0.1658	-3.0450	7.2046	-0.0330	0.0877	-0.5049	
9	3.03	14.07	0.3251	-0.2861	-2.8953	6.8301	-0.0230	0.0915	-0.8802	
10	3.04	13.28	0.3443	-0.3530	-2.7229	6.4918	0.0010	0.0839	-1.0253	
11	3.05	12.54	0.3617	-0.4433	-2.5104	6.1412	0.0150	0.0838	-1.2258	
12	3.04	11.81	0.3941	-0.6178	-2.3398	5.6654	0.0240	0.0814	-1.5674	
13	3.02	11.01	0.3861	-0.6356	-2.1382	5.3462	0.0360	0.0869	-1.6460	
14	3.02	10.22	0.4093	-0.7871	-1.9426	4.9044	0.0420	0.0933	-1.9227	
15	3.02	9.38	0.4386	-0.8531	-1.8152	4.5400	0.0420	0.0908	-1.9448	
16	3.03	8.59	0.4550	-0.9290	-1.6246	4.1292	0.0490	0.0988	-2.0416	
17	3.01	7.75	0.4583	-0.9786	-1.4331	3.6621	0.0430	0.1114	-2.1352	
18	3.00	7.04	0.4751	-1.0221	-1.2635	3.2468	0.0440	0.1194	-2.1513	
19	3.02	6.20	0.4893	-1.0590	-1.1528	2.9338	0.0420	0.1290	-2.1642	
20	3.01	5.38	0.5147	-1.1306	-0.9736	2.4695	0.0300	0.1312	-2.1904	
21	3.01	4.59	0.4878	-1.1504	-0.7886	2.0419	0.0220	0.1470	-2.3592	
22	3.02	3.79	0.4955	-1.1477	-0.6779	1.7410	0.0190	0.1544	-2.3161	
23	2.99	3.05	0.5163	-1.2138	-0.5725	1.4025	0.0150	0.1621	-2.3508	
24	3.00	2.29	0.5232	-1.2745	-0.4495	1.0403	0.0130	0.1680	-2.4453	
25	3.00	1.49	0.5240	-1.3306	-0.2410	0.6743	0.0120	0.1768	-2.5391	
26	3.00	0.78	0.5374	-1.3553	-0.1552	0.4112	0.0130	0.1812	-2.5219	
27	3.00	0.01	0.5255	-1.3237	-0.0317	0.1314	0.0110	0.1953	-2.5187	
28	3.02	-0.77	0.5589	-1.3654	0.1048	-0.1777	0.0140	0.1872	-2.4429	
29	3.00	-1.57	0.5266	-1.3182	0.3039	-0.5644	0.0130	0.1734	-2.5031	
30	2.99	-2.40	0.5273	-1.2912	0.2799	-0.7288	0.0130	0.1700	-2.4485	
31	3.02	-3.24	0.5347	-1.2446	0.5088	-1.1303	0.0090	0.1616	-2.3274	
32	3.02	-4.00	0.4966	-1.1772	0.6164	-1.4889	0.0090	0.1666	-2.3704	
33	3.03	-4.82	0.5062	-1.1347	0.7245	-1.8252	0.0080	0.1794	-2.2414	
34	3.02	-5.54	0.4803	-1.0874	0.9267	-2.2702	0.0030	0.1842	-2.2639	
35	3.03	-6.33	0.4862	-1.0527	1.0825	-2.6763	-0.0070	0.1813	-2.1650	
36	3.00	-7.14	0.4778	-1.0549	1.2352	-3.0158	-0.0020	0.1753	-2.2077	
37	3.01	-7.98	0.4793	-1.0470	1.3801	-3.4130	-0.0090	0.1673	-2.1843	
38	3.03	-8.73	0.4777	-1.0238	1.5609	-3.8710	-0.0110	0.1619	-2.1430	
39	3.03	-9.50	0.4371	-0.9510	1.7310	-4.2751	-0.0170	0.1623	-2.1754	
40	3.03	-10.32	0.4399	-0.9029	1.8892	-4.6685	-0.0230	0.1647	-2.0523	
41	3.03	-11.00	0.3904	-0.7646	2.0923	-5.1780	-0.0320	0.1500	-1.9583	
42	3.01	-11.83	0.4186	-0.8371	2.2574	-5.4868	-0.0240	0.1646	-1.9995	
43	3.02	-12.65	0.3772	-0.7520	2.4511	-5.8792	-0.0180	0.1601	-1.9938	
44	3.04	-13.42	0.3490	-0.5945	2.6214	-6.3345	-0.0110	0.1708	-1.7037	
45	3.04	-14.27	0.3498	-0.5386	2.8045	-6.6940	0.0070	0.1751	-1.5401	
46	3.05	-15.02	0.3308	-0.4271	3.0182	-7.0341	0.0320	0.1687	-1.2912	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	157.0	0.97	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	3.04	-15.85	0.3518	-0.3615	3.1579	-7.3487	0.0690	0.1649	-1.0276		
48	3.04	-16.66	0.3639	-0.3794	3.2780	-7.6618	0.1060	0.1605	-1.0428		
49	3.05	-17.48	0.3278	-0.3159	3.4812	-7.8933	0.1170	0.1474	-0.9638		
50	3.03	-18.33	0.2911	-0.3435	3.6851	-7.9928	0.1380	0.1593	-1.1601		
51	3.04	-19.18	0.2864	-0.3419	3.7360	-7.9651	0.1750	0.1781	-1.1940		
52	3.06	-19.93	0.3863	-0.4419	3.9141	-8.1194	0.2270	0.1965	-1.1438		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	157	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	3.07	19.88	-1.1542	0.0002	-0.3422	-0.0002	0.2965	-0.1882	0.0321	-0.2425	-0.1705	1.2886		
2	3.06	19.50	-1.1681	0.0008	-0.3276	-0.0007	0.2805	-0.1646	0.0321	-0.2410	-0.1950	1.4644		
3	3.05	18.74	-1.1506	-0.0000	-0.3286	0.0000	0.2856	-0.1882	0.0320	-0.2396	-0.1703	1.2732		
4	3.08	17.97	-1.1276	0.0002	-0.3231	-0.0002	0.2866	-0.1853	0.0318	-0.2410	-0.1716	1.3008		
5	3.06	17.14	-1.0954	-0.0000	-0.3162	0.0000	0.2887	-0.1682	0.0317	-0.2404	-0.1887	1.4295		
6	3.07	16.37	-1.0461	0.0002	-0.3024	-0.0002	0.2891	-0.1660	0.0309	-0.2388	-0.1861	1.4386		
7	3.04	15.61	-0.9866	-0.0001	-0.2945	0.0002	0.2985	-0.1524	0.0308	-0.2433	-0.2021	1.5970		
8	3.05	14.81	-0.9376	0.0009	-0.2837	-0.0010	0.3026	-0.1639	0.0302	-0.2412	-0.1845	1.4717		
9	3.03	14.07	-0.9020	-0.0011	-0.2701	0.0013	0.2994	-0.1647	0.0295	-0.2407	-0.1791	1.4619		
10	3.04	13.28	-0.8595	-0.0016	-0.2547	0.0019	0.2963	-0.1838	0.0290	-0.2398	-0.1580	1.3049		
11	3.05	12.54	-0.7806	-0.0023	-0.2500	0.0029	0.3203	-0.1973	0.0294	-0.2464	-0.1490	1.2491		
12	3.04	11.81	-0.7492	-0.0022	-0.2314	0.0030	0.3089	-0.1963	0.0292	-0.2397	-0.1487	1.2211		
13	3.02	11.01	-0.7240	-0.0025	-0.2148	0.0035	0.2968	-0.1977	0.0297	-0.2482	-0.1505	1.2558		
14	3.02	10.22	-0.6286	-0.0018	-0.2161	0.0029	0.3437	-0.2046	0.0299	-0.2455	-0.1464	1.2003		
15	3.02	9.38	-0.6045	-0.0017	-0.2017	0.0029	0.3337	-0.2094	0.0300	-0.2533	-0.1432	1.2100		
16	3.03	8.59	-0.5865	-0.0007	-0.1841	0.0013	0.3140	-0.1910	0.0301	-0.2548	-0.1578	1.3343		
17	3.01	7.73	-0.4897	-0.0005	-0.1762	0.0011	0.3598	-0.1817	0.0299	-0.2569	-0.1648	1.4141		
18	3.00	7.04	-0.4525	-0.0005	-0.1604	0.0011	0.3544	-0.1846	0.0300	-0.2577	-0.1585	1.3596		
19	3.02	6.20	-0.3647	-0.0018	-0.1436	0.0048	0.3732	-0.1756	0.0301	-0.2593	-0.1717	1.4767		
20	3.01	5.38	-0.3743	-0.0009	-0.1262	0.0024	0.3372	-0.1878	0.0302	-0.2567	-0.1610	1.3673		
21	3.01	4.59	-0.2828	-0.0003	-0.1102	0.0011	0.3698	-0.1959	0.0299	-0.2552	-0.1529	1.3031		
22	3.02	3.79	-0.2148	0.0013	-0.1016	-0.0063	0.4729	-0.1940	0.0299	-0.2590	-0.1541	1.3353		
23	2.99	3.05	-0.2495	0.0022	-0.0695	-0.0088	0.2780	-0.1945	0.0299	-0.2597	-0.1537	1.3353		
24	3.00	2.29	-0.1723	0.0026	-0.0551	-0.0151	0.3199	-0.2002	0.0295	-0.2586	-0.1476	1.2918		
25	3.00	1.49	-0.1073	0.0028	-0.0414	-0.0261	0.3863	-0.1912	0.0294	-0.2608	-0.1540	1.3641		
26	3.00	0.78	-0.0615	0.0021	-0.0156	-0.0341	0.2535	-0.2007	0.0294	-0.2581	-0.1465	1.2864		
27	3.00	0.01	-0.0130	0.0003	-0.0080	-0.0231	0.6178	-0.2070	0.0293	-0.2681	-0.1418	1.2955		
28	3.02	-0.77	0.0346	-0.0013	0.0080	-0.0390	0.2321	-0.2064	0.0296	-0.2696	-0.1434	1.3066		
29	3.00	-1.57	0.0844	-0.0028	0.0298	-0.0332	0.3534	-0.2206	0.0296	-0.2686	-0.1342	1.2176		
30	2.99	-2.40	0.1225	-0.0030	0.0414	-0.0245	0.3381	-0.2349	0.0295	-0.2731	-0.1258	1.1629		
31	3.02	-3.24	0.1584	-0.0031	0.0631	-0.0199	0.3702	-0.2356	0.0292	-0.2754	-0.1239	1.1690		
32	3.02	-4.00	0.2235	-0.0029	0.0833	-0.0130	0.3746	-0.2521	0.0284	-0.2836	-0.1126	1.1250		
33	3.03	-4.82	0.2783	-0.0046	0.0990	-0.0165	0.3558	-0.2672	0.0273	-0.2849	-0.1022	1.0664		
34	3.02	-5.54	0.3280	-0.0036	0.1163	-0.0111	0.3545	-0.2734	0.0259	-0.2908	-0.0947	1.0640		
35	3.03	-6.33	0.3637	-0.0038	0.1413	-0.0104	0.3885	-0.2670	0.0244	-0.2941	-0.0916	1.1018		
36	3.00	-7.14	0.4269	-0.0054	0.1548	-0.0126	0.3625	-0.3109	0.0222	-0.2923	-0.0714	0.9400		
37	3.01	-7.98	0.4605	-0.0049	0.1654	-0.0107	0.3593	-0.3157	0.0209	-0.3002	-0.0663	0.9507		
38	3.03	-8.73	0.5116	-0.0050	0.1815	-0.0110	0.3547	-0.3258	0.0197	-0.3038	-0.0604	0.9325		
39	3.03	-9.50	0.5295	-0.0054	0.2018	-0.0103	0.3812	-0.3243	0.0189	-0.3075	-0.0584	0.9482		
40	3.03	-10.32	0.6055	-0.0043	0.2065	-0.0071	0.3410	-0.3896	0.0176	-0.3066	-0.0453	0.7869		
41	3.03	-11.00	0.6748	-0.0032	0.2191	-0.0048	0.3248	-0.3574	0.0163	-0.3183	-0.0456	0.8904		
42	3.01	-11.83	0.7179	-0.0031	0.2218	-0.0043	0.3090	-0.3909	0.0149	-0.3199	-0.0381	0.8184		
43	3.02	-12.65	0.7428	-0.0040	0.2360	-0.0055	0.3177	-0.4405	0.0141	-0.3220	-0.0320	0.7309		
44	3.04	-13.42	0.8166	-0.0054	0.2534	-0.0067	0.3103	-0.5006	0.0130	-0.3256	-0.0260	0.6504		
45	3.04	-14.27	0.8304	-0.0050	0.2673	-0.0060	0.3219	-0.5550	0.0124	-0.3374	-0.0224	0.6079		
46	3.05	-15.02	0.8577	-0.0056	0.2882	-0.0065	0.3360	-0.5914	0.0128	-0.3509	-0.0233	0.6357		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	157	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.04	-15.85	0.9348	-0.0070	0.2967	-0.0075	0.3174	-0.5876	0.0136	-0.3613	-0.0231	0.6148
48	3.04	-16.66	1.0101	-0.0068	0.3076	-0.0067	0.3045	-0.6358	0.0152	-0.3637	-0.0240	0.5721
49	3.05	-17.48	1.0421	-0.0075	0.3187	-0.0072	0.3058	-0.5806	0.0149	-0.3744	-0.0257	0.6449
50	3.03	-18.33	1.0779	-0.0090	0.3245	-0.0084	0.3014	-0.6585	0.0129	-0.3457	-0.0197	0.5250
51	3.04	-19.18	1.1241	-0.0104	0.3363	-0.0093	0.2991	-0.8974	0.0125	-0.2873	-0.0140	0.3202
52	3.06	-19.93	1.1634	-0.0087	0.3550	-0.0075	0.3051	-0.5560	0.0171	-0.3897	-0.0307	0.7010

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI		CONF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION	
6		157		0.97		1.7		0.0		82WUFL2		0.0		0		0		0		FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4									
1	3.07	19.88	-1.0518	-0.0353	-0.3735	0.0335	0.3551	-0.1607	-0.0324	-0.0324	0.2016	0.2019									
2	3.06	19.50	-1.0155	-0.0349	-0.3754	0.0344	0.3696	-0.1821	-0.0343	-0.0240	0.1883	0.1591									
3	3.05	18.74	-1.0159	-0.0309	-0.3872	0.0305	0.3811	-0.1681	-0.0359	-0.0274	0.2135	0.1631									
4	3.08	17.97	-1.0394	-0.0250	-0.4082	0.0241	0.3928	-0.1675	-0.0292	-0.0463	0.1746	0.2765									
5	3.06	17.14	-1.0594	-0.0188	-0.4115	0.0178	0.3884	-0.1705	-0.0327	-0.0351	0.1920	0.2059									
6	3.07	16.37	-1.0516	-0.0135	-0.4048	0.0128	0.3849	-0.1390	-0.0372	-0.0219	0.2676	0.1577									
7	3.04	15.61	-0.9984	-0.0077	-0.4164	0.0078	0.4170	-0.1211	-0.0412	-0.0024	0.3402	0.0194									
8	3.05	14.81	-0.9799	-0.0026	-0.4063	0.0027	0.4146	-0.0817	-0.0426	0.0030	0.5219	-0.0364									
9	3.03	14.07	-0.9059	0.0002	-0.3994	-0.0003	0.4408	-0.0499	-0.0418	0.0071	0.8385	-0.1417									
10	3.04	13.28	-0.8735	0.0001	-0.3884	-0.0002	0.4446	-0.0345	-0.0443	0.0216	1.2853	-0.6262									
11	3.05	12.54	-0.8531	-0.0008	-0.3662	0.0009	0.4292	0.0041	-0.0436	0.0289	-10.6444	7.0405									
12	3.04	11.81	-0.8127	-0.0011	-0.3445	0.0014	0.4239	0.0451	-0.0439	0.0421	-0.9743	0.9341									
13	3.02	11.01	-0.7481	-0.0027	-0.3302	0.0036	0.4413	0.0193	-0.0417	0.0554	-2.1602	2.8721									
14	3.02	10.22	-0.6973	-0.0033	-0.3098	0.0048	0.4443	0.1225	-0.0396	0.0511	-0.3236	0.4173									
15	3.02	9.38	-0.6081	-0.0047	-0.2990	0.0078	0.4917	0.1282	-0.0361	0.0556	-0.2819	0.4338									
16	3.03	8.59	-0.5891	-0.0056	-0.2688	0.0096	0.4563	0.1315	-0.0310	0.0674	-0.2357	0.5127									
17	3.01	7.75	-0.5323	-0.0063	-0.2407	0.0119	0.4521	0.1428	-0.0263	0.0755	-0.1845	0.5286									
18	3.00	7.04	-0.4541	-0.0066	-0.2293	0.0146	0.5049	0.1646	-0.0224	0.0713	-0.1364	0.4335									
19	3.02	6.20	-0.3918	-0.0062	-0.2095	0.0158	0.5346	0.1357	-0.0169	0.0798	-0.1245	0.5882									
20	3.01	5.38	-0.3215	-0.0073	-0.1795	0.0229	0.5583	0.2027	-0.0115	0.0721	-0.0570	0.3559									
21	3.01	4.59	-0.3015	-0.0071	-0.1483	0.0235	0.4917	0.1812	-0.0083	0.0801	-0.0458	0.4419									
22	3.02	3.79	-0.2367	-0.0071	-0.1231	0.0302	0.5204	0.1891	-0.0053	0.0777	-0.0294	0.4315									
23	2.99	3.05	-0.1397	-0.0053	-0.1102	0.0383	0.7892	0.2250	-0.0042	0.0747	-0.0187	0.3319									
24	3.00	2.29	-0.1249	-0.0049	-0.0756	0.0396	0.6054	0.2141	-0.0023	0.0817	-0.0107	0.3818									
25	3.00	1.49	-0.0705	-0.0051	-0.0552	0.0723	0.7829	0.2039	-0.0028	0.0840	-0.0140	0.4122									
26	3.00	0.78	-0.0114	-0.0042	-0.0348	0.3684	3.0525	0.2211	-0.0027	0.0856	-0.0124	0.3870									
27	3.00	0.01	0.0479	-0.0036	-0.0152	-0.0762	-0.3181	0.2223	-0.0033	0.0861	-0.0148	0.3872									
28	3.02	-0.77	0.0705	-0.0033	0.0084	-0.0475	-0.1190	0.2223	-0.0024	0.0891	-0.0108	0.4007									
29	3.00	-1.57	0.1490	-0.0021	0.0228	-0.0141	0.1533	0.2011	-0.0023	0.0960	-0.0114	0.4774									
30	2.99	-2.40	0.1804	-0.0019	0.0505	-0.0105	0.2800	0.2246	-0.0023	0.0938	-0.0105	0.4178									
31	3.02	-3.24	0.2401	-0.0005	0.0760	-0.0023	0.3166	0.2167	-0.0017	0.0946	-0.0078	0.4366									
32	3.02	-4.00	0.2640	0.0006	0.1052	0.0023	0.3705	0.2065	-0.0013	0.0906	-0.0065	0.4380									
33	3.03	-4.82	0.3433	0.0018	0.1255	0.0052	0.3655	0.2067	-0.0013	0.0900	-0.0065	0.4353									
34	3.02	-5.54	0.4030	0.0020	0.1495	0.0051	0.3709	0.2049	-0.0020	0.0882	-0.0100	0.4303									
35	3.03	-6.33	0.4813	0.0026	0.1739	0.0054	0.3613	0.1890	-0.0012	0.0920	-0.0066	0.4867									
36	3.00	-7.14	0.5061	0.0046	0.2003	0.0091	0.3958	0.2152	-0.0018	0.0843	-0.0086	0.3918									
37	3.01	-7.98	0.5768	0.0054	0.2215	0.0094	0.3840	0.2227	-0.0013	0.0893	-0.0061	0.4010									
38	3.03	-8.73	0.6137	0.0057	0.2441	0.0094	0.3977	0.1925	-0.0023	0.0920	-0.0119	0.4781									
39	3.03	-9.50	0.6814	0.0064	0.2646	0.0095	0.3884	0.1888	-0.0021	0.0970	-0.0111	0.5138									
40	3.03	-10.32	0.7560	0.0067	0.2841	0.0089	0.3758	0.2014	-0.0005	0.0890	-0.0025	0.4420									
41	3.03	-11.00	0.8002	0.0076	0.3074	0.0096	0.3842	0.1852	-0.0032	0.0848	-0.0175	0.4579									
42	3.01	-11.83	0.8784	0.0076	0.3188	0.0087	0.3629	0.1859	-0.0035	0.0977	-0.0191	0.5258									
43	3.02	-12.65	0.9261	0.0086	0.3389	0.0093	0.3659	0.1888	-0.0042	0.0997	-0.0222	0.5281									
44	3.04	-13.42	0.9699	0.0097	0.3545	0.0100	0.3655	0.1719	-0.0033	0.0957	-0.0195	0.5566									
45	3.04	-14.27	0.9442	0.0111	0.3701	0.0112	0.3722	0.2264	-0.0021	0.0906	-0.0093	0.4004									
46	3.05	-15.02	1.0499	0.0131	0.3769	0.0144	0.3541	0.1426	-0.0012	0.0877	-0.0062	0.4552									

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		157	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.04	-15.85	1.0959	0.0184	0.3741	0.0168	0.3413	0.2024	0.0005	0.0896	0.0025	0.4429
48	3.04	-16.66	1.0939	0.0261	0.3786	0.0239	0.3461	0.2501	0.0006	0.0812	0.0026	0.3248
49	3.05	-17.48	1.1140	0.0342	0.3685	0.0307	0.3308	0.2015	0.0006	0.0846	0.0032	0.4201
50	3.03	-18.33	1.0890	0.0397	0.3437	0.0364	0.3156	0.2299	0.0001	0.0767	0.0007	0.3336
51	3.04	-19.18	1.0278	0.0479	0.3222	0.0466	0.3135	0.1699	0.0011	0.0880	0.0065	0.5180
52	3.06	-19.93	1.0793	0.0447	0.3266	0.0414	0.3026	0.2005	0.0022	0.0846	0.0112	0.4220

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		158	0.97	1.7	0.0	B2WDF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP		
1	6.11	19.94	0.8228	-0.9779	-3.7281	7.3921	-0.2820	0.0649	-1.1886		
2	6.10	19.69	0.9060	-1.1034	-3.8286	7.3778	-0.2700	0.0636	-1.2179		
3	6.09	18.94	0.8542	-1.0449	-3.7827	7.5035	-0.2580	0.0525	-1.2232		
4	6.10	18.15	0.8401	-1.1821	-3.5879	7.3208	-0.2330	0.0567	-1.3281		
5	6.11	17.35	0.8804	-1.1625	-3.5497	7.4043	-0.1850	0.0469	-1.3205		
6	6.09	16.52	0.9050	-1.2600	-3.4140	7.3682	-0.1390	0.0353	-1.3923		
7	6.08	15.81	0.8623	-1.2442	-3.2900	7.3576	-0.0790	0.0287	-1.4429		
8	6.09	15.04	0.8846	-1.4074	-3.0427	6.9564	-0.0500	0.0312	-1.5910		
9	6.07	14.25	0.9113	-1.5488	-2.8901	6.7148	-0.0260	0.0440	-1.6495		
10	6.07	13.47	0.9054	-1.5495	-2.7764	6.4147	-0.0020	0.0389	-1.7666		
11	6.07	12.77	0.9351	-1.7500	-2.5886	6.0637	0.0040	0.0623	-1.8716		
12	6.05	11.95	0.9458	-1.8750	-2.3389	5.6341	0.0130	0.0727	-1.9825		
13	6.06	11.17	0.9771	-1.9668	-2.2047	5.2793	0.0190	0.0812	-2.0130		
14	6.06	10.42	1.0012	-2.1235	-2.0421	4.9247	0.0330	0.0964	-2.1211		
15	6.03	9.62	1.0045	-2.1931	-1.8347	4.4753	0.0270	0.1080	-2.1834		
16	6.03	8.79	1.0142	-2.2727	-1.6529	4.0358	0.0320	0.1209	-2.2410		
17	6.03	7.99	1.0104	-2.3124	-1.5420	3.6706	0.0310	0.1175	-2.2887		
18	6.04	7.19	1.0022	-2.3509	-1.3165	3.2340	0.0360	0.1087	-2.3458		
19	6.01	6.43	1.0279	-2.4419	-1.1380	2.7930	0.0270	0.1207	-2.3757		
20	6.04	5.60	1.0439	-2.4903	-0.9834	2.4156	0.0230	0.1163	-2.3856		
21	6.03	4.78	1.0526	-2.5774	-0.8766	2.0521	0.0170	0.1221	-2.4487		
22	6.01	4.02	1.0396	-2.5312	-0.7382	1.7174	0.0160	0.1304	-2.4349		
23	6.02	3.26	1.0470	-2.5806	-0.5676	1.3656	0.0100	0.1358	-2.4648		
24	6.00	2.53	1.0773	-2.7160	-0.4440	1.0106	0.0070	0.1489	-2.5156		
25	6.00	1.70	1.0731	-2.6971	-0.3240	0.7385	0.0020	0.1571	-2.5135		
26	6.02	0.96	1.0740	-2.7214	-0.1513	0.4518	0.0100	0.1634	-2.5340		
27	6.01	0.21	1.0977	-2.7746	-0.0901	0.2041	0.0110	0.1735	-2.5277		
28	6.02	-0.55	1.0904	-2.7623	0.0531	-0.1063	0.0170	0.1708	-2.5346		
29	6.00	-1.34	1.0905	-2.7905	0.1791	-0.3397	0.0250	0.1705	-2.5590		
30	6.00	-2.20	1.0704	-2.7283	0.2202	-0.6362	0.0310	0.1730	-2.5490		
31	6.03	-2.99	1.0592	-2.6407	0.4128	-0.9119	0.0270	0.1581	-2.4932		
32	6.01	-3.76	1.0675	-2.5883	0.5303	-1.2084	0.0200	0.1581	-2.4247		
33	6.02	-4.56	1.0665	-2.5589	0.6589	-1.5784	0.0200	0.1583	-2.3994		
34	6.03	-5.26	1.0588	-2.5401	0.8320	-1.8827	0.0100	0.1588	-2.3991		
35	6.01	-6.13	1.0266	-2.4951	0.9878	-2.3597	0.0110	0.1551	-2.4305		
36	6.02	-6.89	1.0500	-2.4158	1.1586	-2.7780	0.0030	0.1536	-2.3009		
37	6.03	-7.70	1.0055	-2.3355	1.2989	-3.1653	0.0010	0.1535	-2.3228		
38	6.05	-8.47	1.0147	-2.3244	1.4743	-3.5418	0.0080	0.1472	-2.2908		
39	6.02	-9.26	1.0192	-2.2927	1.6886	-4.0318	0.0080	0.1410	-2.2496		
40	6.04	-10.07	1.0067	-2.2122	1.8336	-4.4417	0.0060	0.1479	-2.1976		
41	6.04	-10.79	0.9865	-2.1010	2.0222	-4.8309	0.0060	0.1392	-2.1298		
42	6.05	-11.56	0.9889	-2.1533	2.1904	-5.2013	0.0070	0.1361	-2.1776		
43	6.04	-12.28	0.9247	-1.9765	2.3595	-5.6520	-0.0010	0.1324	-2.1375		
44	6.05	-13.12	0.8876	-1.8325	2.5351	-6.0778	-0.0390	0.1413	-2.0646		
45	6.03	-13.94	0.8585	-1.7218	2.7309	-6.5270	-0.0100	0.1372	-2.0056		
46	6.06	-14.78	0.8354	-1.6235	2.9206	-6.8465	0.0160	0.1314	-1.9434		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		158	0.97	1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	6.05	-15.54	0.8375	-1.4934	3.1025	-7.1691	0.0390	0.1332	-1.7832				
48	6.05	-16.38	0.8513	-1.6227	3.2398	-7.2183	0.0800	0.1339	-1.9062				
49	6.05	-17.18	0.7600	-1.3590	3.3503	-7.3550	0.1310	0.1525	-1.7423				
50	6.05	-18.04	0.7920	-1.4228	3.4517	-7.1801	0.1960	0.1876	-1.7964				
51	6.06	-18.85	0.8701	-1.5481	3.5350	-6.9818	0.2850	0.2126	-1.7792				
52	6.07	-19.63	0.9092	-1.6618	3.6408	-6.4890	0.3500	0.2630	-1.8278				
53	6.09	-20.24	0.9372	-1.5740	3.6755	-6.3586	0.3889	0.2676	-1.6795				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	1.58	0.97	1.7	0.0	BZWF12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCFF1	YCPF1	CNF2	CH2	CB2	XCFF2	YCPF2		
1	6.11	19.94	-1.0401	0.0099	-0.3188	-0.0096	0.3065	0.0083	0.0356	-0.1486	4.2944	-17.9077		
2	6.10	19.69	-1.0501	0.0109	-0.3165	-0.0104	0.3018	0.0301	0.0362	-0.1515	1.2024	-5.0356		
3	6.09	18.94	-1.0371	0.0106	-0.3068	-0.0102	0.2958	0.0027	0.0355	-0.1492	13.1643	-55.2593		
4	6.10	18.15	-1.0199	0.0105	-0.3024	-0.0103	0.2965	-0.0045	0.0354	-0.1489	-7.8653	33.0888		
5	6.11	17.35	-0.9738	0.0099	-0.3011	-0.0102	0.3092	0.0494	0.0353	-0.1541	0.7155	-3.1202		
6	6.09	16.52	-0.9405	0.0098	-0.2831	-0.0105	0.3010	0.0473	0.0343	-0.1509	0.7261	-3.1911		
7	6.08	15.81	-0.8920	0.0076	-0.2730	-0.0086	0.3061	0.0394	0.0339	-0.1536	0.8615	-3.9003		
8	6.09	15.04	-0.8246	0.0058	-0.2637	-0.0070	0.3198	0.0472	0.0328	-0.1563	0.6948	-3.3130		
9	6.07	14.25	-0.7779	0.0051	-0.2537	-0.0066	0.3261	0.0627	0.0324	-0.1551	0.5167	-2.4738		
10	6.07	13.47	-0.7573	0.0059	-0.2387	-0.0079	0.3153	0.0500	0.0323	-0.1617	0.6459	-3.2348		
11	6.07	12.77	-0.7130	0.0060	-0.2313	-0.0085	0.3244	0.0308	0.0321	-0.1587	1.0420	-5.1538		
12	6.05	11.95	-0.6674	0.0064	-0.2195	-0.0096	0.3289	0.0276	0.0321	-0.1572	1.1646	-5.6958		
13	6.06	11.17	-0.6166	0.0071	-0.2148	-0.0116	0.3483	0.0086	0.0318	-0.1610	3.7028	-18.7249		
14	6.06	10.42	-0.5658	0.0089	-0.2001	-0.0157	0.3537	0.0077	0.0318	-0.1628	4.1291	-21.1473		
15	6.03	9.62	-0.5246	0.0096	-0.1872	-0.0183	0.3568	0.0043	0.0315	-0.1592	7.3243	-37.0389		
16	6.03	8.79	-0.5095	0.0103	-0.1685	-0.0202	0.3307	-0.0196	0.0318	-0.1611	-1.6247	8.2210		
17	6.03	7.99	-0.4367	0.0089	-0.1598	-0.0205	0.3660	-0.0297	0.0318	-0.1659	-1.0722	5.5857		
18	6.04	7.19	-0.3958	0.0100	-0.1397	-0.0254	0.3529	-0.0465	0.0326	-0.1658	-0.7010	3.5655		
19	6.01	6.43	-0.3360	0.0112	-0.1308	-0.0333	0.3668	-0.0406	0.0327	-0.1679	-0.8065	4.1362		
20	6.04	5.60	-0.2977	0.0108	-0.1209	-0.0363	0.4061	-0.0592	0.0328	-0.1733	-0.5540	2.4278		
21	6.03	4.78	-0.2314	0.0132	-0.1034	-0.0572	0.4469	-0.0326	0.0327	-0.1723	-1.0029	5.2872		
22	6.01	4.02	-0.2539	0.0120	-0.0774	-0.0473	0.3049	-0.0595	0.0328	-0.1774	-0.5520	2.9820		
23	6.02	3.26	-0.1671	0.0129	-0.0747	-0.0775	0.4469	-0.0571	0.0327	-0.1758	-0.5735	3.0793		
24	6.00	2.53	-0.1103	0.0146	-0.0644	-0.1328	0.5843	-0.0722	0.0327	-0.1781	-0.4535	2.4676		
25	6.00	1.70	-0.1143	0.0138	-0.0415	-0.1212	0.3630	-0.0705	0.0324	-0.1849	-0.4595	2.6226		
26	6.02	0.96	-0.0579	0.0067	-0.0178	-0.1166	0.3073	-0.0799	0.0323	-0.1878	-0.4048	2.3507		
27	6.01	0.21	0.0066	0.0018	-0.0145	0.2803	-2.2577	-0.0978	0.0325	-0.1902	-0.3328	1.9447		
28	6.02	-0.55	0.0203	-0.0041	0.0061	-0.2044	0.2987	-0.0973	0.0327	-0.1956	-0.3360	2.0105		
29	6.00	-1.34	0.0520	-0.0104	0.0284	-0.2009	0.5467	-0.0973	0.0325	-0.2001	-0.3345	2.0568		
30	6.00	-2.20	0.0704	-0.0148	0.0457	-0.2102	0.6486	-0.1383	0.0325	-0.2009	-0.2350	1.4532		
31	6.03	-2.99	0.1192	-0.0149	0.0590	-0.1250	0.4951	-0.1536	0.0323	-0.2074	-0.2106	1.3508		
32	6.01	-3.76	0.1869	-0.0156	0.0672	-0.0837	0.3594	-0.1359	0.0322	-0.2177	-0.2369	1.6025		
33	6.02	-4.56	0.2434	-0.0150	0.0853	-0.0616	0.3505	-0.1145	0.0311	-0.2280	-0.2716	1.9917		
34	6.03	-5.26	0.2556	-0.0136	0.0950	-0.0532	0.3716	-0.1045	0.0301	-0.2319	-0.2885	2.2193		
35	6.01	-6.13	0.3079	-0.0133	0.1080	-0.0433	0.3507	-0.1103	0.0281	-0.2438	-0.2552	2.2108		
36	6.02	-6.89	0.3054	-0.0112	0.1402	-0.0367	0.4589	-0.1352	0.0262	-0.2522	-0.1938	1.8658		
37	6.03	-7.70	0.3841	-0.0108	0.1433	-0.0282	0.3730	-0.1344	0.0248	-0.2588	-0.1845	1.9262		
38	6.05	-8.47	0.4511	-0.0110	0.1545	-0.0244	0.3425	-0.1379	0.0228	-0.2674	-0.1657	1.9395		
39	6.02	-9.28	0.4880	-0.0103	0.1679	-0.0211	0.3441	-0.1545	0.0210	-0.2812	-0.1362	1.8206		
40	6.04	-10.07	0.5473	-0.0104	0.1802	-0.0191	0.3292	-0.1560	0.0198	-0.2923	-0.1272	1.8742		
41	6.04	-10.79	0.5783	-0.0089	0.1939	-0.0155	0.3353	-0.1776	0.0189	-0.2985	-0.1064	1.6812		
42	6.05	-11.56	0.6192	-0.0098	0.2040	-0.0158	0.3295	-0.1765	0.0180	-0.3006	-0.1022	1.7032		
43	6.04	-12.28	0.6407	-0.0115	0.2176	-0.0180	0.3396	-0.1895	0.0169	-0.3035	-0.0894	1.6018		
44	6.05	-13.12	0.6943	-0.0117	0.2282	-0.0169	0.3288	-0.1867	0.0154	-0.3105	-0.0827	1.6632		
45	6.03	-13.94	0.7341	-0.0118	0.2361	-0.0161	0.3216	-0.2294	0.0136	-0.3112	-0.0593	1.3568		
46	6.06	-14.78	0.7766	-0.0148	0.2511	-0.0191	0.3233	-0.2354	0.0126	-0.3276	-0.0535	1.3918		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
o	158	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.05	-15.54	0.7920	-0.0172	0.2723	-0.0217	0.3438	-0.2420	0.0112	-0.3322	-0.0465	1.3729
48	6.05	-16.38	0.8798	-0.0194	0.2789	-0.0220	0.3170	-0.2736	0.0073	-0.3211	-0.0269	1.1739
49	6.05	-17.18	0.9298	-0.0193	0.2899	-0.0207	0.3118	-0.2668	0.0082	-0.3444	-0.0309	1.2912
50	6.05	-18.04	0.9618	-0.0195	0.2986	-0.0203	0.3104	-0.2211	0.0059	-0.3431	-0.0269	1.5521
51	6.06	-18.85	0.9898	-0.0192	0.3126	-0.0194	0.3158	-0.2398	0.0066	-0.3593	-0.0277	1.4988
52	6.07	-19.63	0.9732	-0.0223	0.3260	-0.0229	0.3350	-0.2719	0.0086	-0.3556	-0.0318	1.3082
53	6.09	-20.24	1.0121	-0.0214	0.3208	-0.0212	0.3169	-0.2900	0.0095	-0.3657	-0.0329	1.2608

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	OEL4	TRANSITION		
6	158	0.97	1.7	0.0	B2HOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.11	19.94	-1.0072	-0.0397	-0.3383	0.0395	0.3359	-0.1288	-0.0319	-0.0026	0.2480	0.0203
2	6.10	19.69	-0.9621	-0.0374	-0.3332	0.0389	0.3463	-0.0889	-0.0340	-0.0000	0.3829	0.0003
3	6.09	18.94	-0.9290	-0.0362	-0.3474	0.0390	0.3739	-0.0810	-0.0359	0.0026	0.4437	-0.0322
4	6.10	18.15	-1.0318	-0.0360	-0.3460	0.0349	0.3353	-0.0718	-0.0389	0.0129	0.5424	-0.1793
5	6.11	17.35	-1.0333	-0.0310	-0.3805	0.0300	0.3682	-0.0624	-0.0404	0.0142	0.5527	-0.3342
6	6.09	16.52	-1.0796	-0.0276	-0.3572	0.0256	0.3679	-0.0406	-0.0424	0.0253	1.0441	-0.6225
7	6.08	15.81	-1.0379	-0.0120	-0.4285	0.0116	0.4129	-0.0206	-0.0400	0.0335	1.9414	-1.6279
8	6.09	15.04	-1.0560	-0.0057	-0.4138	0.0054	0.3918	0.0030	-0.0400	0.0453	-13.3310	15.0999
9	6.07	14.25	-0.9943	-0.0007	-0.4197	0.0067	0.4221	0.0408	-0.0395	0.0602	-0.9680	1.4754
10	6.07	13.47	-0.9433	-0.0008	-0.4072	0.0008	0.4317	0.0943	-0.0405	0.0749	-0.4299	0.7945
11	6.07	12.77	-0.9042	0.0002	-0.3944	-0.0003	0.4362	0.1635	-0.0388	0.0666	-0.2373	0.4072
12	6.05	11.95	-0.8310	-0.0014	-0.3760	0.0017	0.4524	0.1578	-0.0382	0.0867	-0.2424	0.5493
13	6.06	11.17	-0.8083	-0.0012	-0.3512	0.0015	0.4345	0.1583	-0.0378	0.0998	-0.2391	0.6308
14	6.06	10.42	-0.7413	-0.0022	-0.3378	0.0030	0.4557	0.2079	-0.0357	0.1067	-0.1719	0.5131
15	6.03	9.62	-0.6819	-0.0029	-0.3125	0.0043	0.4583	0.2655	-0.0329	0.1057	-0.1239	0.3984
16	6.03	8.79	-0.6032	-0.0026	-0.2961	0.0044	0.4908	0.2870	-0.0235	0.1124	-0.1029	0.3917
17	6.03	7.99	-0.5491	-0.0044	-0.2667	0.0081	0.4856	0.2740	-0.0234	0.1278	-0.0927	0.4664
18	6.04	7.19	-0.4847	-0.0060	-0.2464	0.0125	0.5083	0.3171	-0.0202	0.1256	-0.0638	0.3960
19	6.01	6.43	-0.4062	-0.0071	-0.2164	0.0175	0.5318	0.3142	-0.0159	0.1351	-0.0506	0.4259
20	6.04	5.60	-0.3418	-0.0064	-0.1899	0.0189	0.5555	0.3278	-0.0121	0.1367	-0.0369	0.4171
21	6.03	4.78	-0.2680	-0.0066	-0.1645	0.0229	0.5710	0.3397	-0.0080	0.1457	-0.0237	0.4289
22	6.01	4.02	-0.2285	-0.0061	-0.1412	0.0269	0.6181	0.3379	-0.0049	0.1453	-0.0146	0.4300
23	6.02	3.26	-0.1888	-0.0055	-0.1092	0.0294	0.5784	0.3695	-0.0038	0.1487	-0.0098	0.3817
24	6.00	2.53	-0.1178	-0.0049	-0.0848	0.0420	0.7628	0.3849	-0.0030	0.1527	-0.0078	0.3966
25	6.00	1.70	-0.0435	-0.0042	-0.0693	0.0965	1.5930	0.3942	-0.0021	0.1550	-0.0053	0.3931
26	6.02	0.96	-0.0325	-0.0044	-0.0357	0.1354	1.0994	0.4315	-0.0016	0.1576	-0.0038	0.3652
27	6.01	0.21	0.0397	-0.0044	-0.0192	-0.1108	-0.4829	0.4231	-0.0022	0.1625	-0.0052	0.3640
28	6.02	-0.35	0.0775	-0.0034	0.0037	-0.0445	0.0481	0.4306	-0.0021	0.1711	-0.0050	0.3973
29	6.00	-1.34	0.1275	-0.0025	0.0287	-0.0200	0.2250	0.4672	-0.0021	0.1661	-0.0046	0.3555
30	6.00	-2.20	0.2051	-0.0019	0.0418	-0.0095	0.2040	0.4235	-0.0022	0.1813	-0.0052	0.4281
31	6.03	-2.99	0.2340	-0.0010	0.0740	-0.0043	0.3161	0.4656	-0.0023	0.1734	-0.0049	0.3725
32	6.01	-3.76	0.2742	0.0006	0.1053	0.0022	0.3843	0.4299	-0.0013	0.1799	-0.0030	0.4186
33	6.02	-4.56	0.3487	0.0018	0.1275	0.0052	0.3656	0.4987	-0.0014	0.1650	-0.0029	0.3308
34	6.03	-5.26	0.4074	0.0031	0.1475	0.0076	0.3619	0.4636	-0.0015	0.1794	-0.0033	0.3869
35	6.01	-6.13	0.4725	0.0035	0.1774	0.0074	0.3755	0.4822	-0.0014	0.1777	-0.0030	0.3685
36	6.02	-6.84	0.5382	0.0037	0.2027	0.0069	0.3767	0.4683	-0.0015	0.1745	-0.0032	0.3727
37	6.03	-7.70	0.5890	0.0031	0.2307	0.0053	0.3916	0.4460	-0.0029	0.1828	-0.0065	0.4049
38	6.05	-8.47	0.6528	0.0033	0.2490	0.0051	0.3815	0.4826	-0.0034	0.1835	-0.0071	0.3802
39	6.02	-9.26	0.7314	0.0031	0.2759	0.0043	0.3772	0.5279	-0.0033	0.1761	-0.0063	0.3336
40	6.04	-10.07	0.7968	0.0031	0.2948	0.0039	0.3700	0.4871	-0.0043	0.1858	-0.0088	0.3814
41	6.04	-10.79	0.8154	0.0043	0.3222	0.0053	0.3951	0.4670	-0.0025	0.1887	-0.0055	0.4041
42	6.05	-11.56	0.9174	0.0049	0.3336	0.0053	0.3636	0.4792	-0.0034	0.1967	-0.0072	0.4104
43	6.04	-12.28	0.9589	0.0066	0.3531	0.0069	0.3682	0.4648	-0.0025	0.1878	-0.0055	0.4040
44	6.05	-13.12	1.0451	0.0080	0.3667	0.0077	0.3509	0.4690	-0.0033	0.1875	-0.0071	0.3997
45	6.03	-13.94	1.0663	0.0108	0.3860	0.0102	0.3620	0.5056	-0.0023	0.1762	-0.0045	0.3484
46	6.06	-14.78	1.0915	0.0179	0.3872	0.0164	0.3547	0.4708	-0.0013	0.1832	-0.0029	0.3891

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX 10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	158	0.97	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	6.05	-15.54	1.0928	0.0264	0.3935	0.0241	0.3601	0.4678	-0.0007	0.1812	-0.0015	0.3873
48	6.05	-16.38	1.0974	0.0373	0.3606	0.0340	0.3286	0.4853	0.0	0.1803	0.0	0.3715
49	6.05	-17.18	1.0903	0.0405	0.3481	0.0372	0.3193	0.4702	0.0027	0.1760	0.0057	0.3743
50	6.05	-18.04	0.9649	0.0394	0.3651	0.0409	0.3162	0.5037	0.0022	0.1714	0.0045	0.3404
51	6.06	-18.85	0.9695	0.0383	0.2753	0.0395	0.2839	0.4764	0.0043	0.1814	0.0090	0.3809
52	6.07	-19.63	0.8133	0.0263	0.2538	0.0323	0.3121	0.4628	0.0048	0.1769	0.0105	0.3823
53	6.09	-20.24	0.7430	0.0214	0.2404	0.0289	0.3235	0.4628	0.0042	0.1735	0.0091	0.3749

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	159	0.97	1.7	0.0	B2MDF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.08	19.89	1.6009	-2.9182	-3.6700	6.0829	-0.3710	0.0543	-1.8228		
2	9.09	19.52	1.5881	-2.9122	-3.6321	6.1868	-0.3620	0.0564	-1.8338		
3	9.09	18.80	1.6105	-2.9626	-3.6544	6.3410	-0.3260	0.0368	-1.8396		
4	9.09	18.01	1.5340	-2.7055	-3.5165	6.6085	-0.2590	0.0117	-1.7637		
5	9.09	17.18	1.5091	-2.5957	-3.5342	6.9507	-0.1840	-0.0063	-1.7200		
6	9.07	16.38	1.4859	-2.6782	-3.3870	6.8245	-0.1140	-0.0097	-1.8024		
7	9.10	15.65	1.4747	-2.6165	-3.2450	6.8067	-0.1010	-0.0150	-1.7743		
8	9.07	14.91	1.4795	-2.7482	-3.0466	6.6099	-0.0460	-0.0012	-1.8575		
9	9.09	14.11	1.4867	-2.7913	-2.8838	6.3201	-0.0080	0.0070	-1.8775		
10	9.06	13.36	1.5275	-2.9614	-2.7020	6.0016	-0.0020	0.0233	-1.9387		
11	9.07	12.65	1.5238	-3.1272	-2.5047	5.6573	0.0100	0.0275	-2.0522		
12	9.06	11.81	1.5569	-3.2755	-2.3456	5.2996	0.0100	0.0356	-2.1039		
13	9.05	11.05	1.5766	-3.4311	-2.1785	4.9877	0.0210	0.0512	-2.1763		
14	9.04	10.20	1.6013	-3.5106	-2.0206	4.5777	0.0280	0.0729	-2.1924		
15	9.03	9.46	1.5947	-3.6004	-1.8256	4.2416	0.0320	0.0758	-2.2577		
16	9.04	8.63	1.6281	-3.7671	-1.6684	3.7935	0.0330	0.0905	-2.3138		
17	9.02	7.84	1.6338	-3.8361	-1.4648	3.3886	0.0280	0.1059	-2.3480		
18	9.03	7.03	1.6258	-3.8209	-1.2638	3.0312	0.0330	0.1089	-2.3502		
19	9.00	6.31	1.6637	-3.9829	-1.0696	2.5152	0.0230	0.1182	-2.3940		
20	9.01	5.46	1.6545	-3.9901	-0.9447	2.1944	0.0050	0.1340	-2.4117		
21	9.03	4.63	1.7076	-4.1384	-0.8587	1.8461	0.0040	0.1353	-2.4235		
22	9.02	3.84	1.6671	-4.1157	-0.6708	1.4471	-0.0050	0.1445	-2.4688		
23	9.00	3.09	1.7120	-4.1795	-0.5232	1.1345	-0.0020	0.1520	-2.4413		
24	9.00	2.33	1.6673	-4.1819	-0.3815	0.7540	-0.0010	0.1531	-2.5082		
25	9.02	1.56	1.6916	-4.2020	-0.3059	0.6582	0.0050	0.1626	-2.4841		
26	9.02	0.88	1.6719	-4.1794	-0.1461	0.4005	0.0110	0.1557	-2.4974		
27	9.01	0.08	1.6841	-4.2625	-0.0621	0.1709	0.0130	0.1532	-2.5310		
28	9.00	-0.72	1.6515	-4.1658	0.0313	0.0192	0.0160	0.1483	-2.5225		
29	8.99	-1.53	1.6704	-4.2123	0.1726	-0.2646	0.0280	0.1334	-2.5218		
30	9.00	-2.39	1.6249	-4.1106	0.2918	-0.5614	0.0330	0.1313	-2.5298		
31	9.02	-3.15	1.6370	-4.0725	0.3440	-0.7846	0.0390	0.1227	-2.4878		
32	9.02	-3.92	1.6550	-4.0987	0.4434	-1.1517	0.0310	0.1158	-2.4766		
33	9.02	-4.71	1.6225	-4.0512	0.6483	-1.5256	0.0330	0.1202	-2.4969		
34	9.01	-5.43	1.6112	-3.9774	0.8517	-1.8663	0.0190	0.1188	-2.4686		
35	9.03	-6.23	1.6445	-3.9241	0.9856	-2.1400	0.0020	0.1258	-2.3862		
36	9.01	-6.98	1.5908	-3.7879	1.1872	-2.6750	-0.0030	0.1238	-2.3811		
37	9.03	-7.80	1.6072	-3.8189	1.3279	-3.0569	0.0080	0.1301	-2.3761		
38	9.03	-8.62	1.6114	-3.7864	1.5067	-3.4662	0.0080	0.1446	-2.3471		
39	9.03	-9.43	1.5618	-3.5563	1.7019	-3.9604	0.0130	0.1406	-2.2711		
40	9.05	-10.18	1.5715	-3.5109	1.8491	-4.2615	0.0170	0.1409	-2.2341		
41	9.06	-10.91	1.5762	-3.3065	2.0142	-4.7297	0.0410	0.1411	-2.1485		
42	9.05	-11.67	1.5871	-3.3488	2.1347	-5.1093	0.0520	0.1519	-2.1100		
43	9.04	-12.51	1.6033	-3.2685	2.3510	-5.4881	0.0670	0.1369	-2.0386		
44	9.06	-13.28	1.5764	-3.1868	2.4965	-5.8997	0.0660	0.1291	-2.0216		
45	9.07	-14.17	1.5476	-3.0985	2.7348	-6.2375	0.0780	0.1274	-2.0021		
46	9.07	-14.95	1.5251	-3.0290	2.8539	-6.5022	0.0830	0.1242	-1.9835		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.59	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	9.05	-15.78	1.4806	-2.8337	3.0431	-6.8510	0.1240	0.1236	-1.9139		
48	9.08	-16.56	1.4974	-2.9293	3.1250	-6.8327	0.1630	0.1371	-1.9562		
49	9.08	-17.36	1.4979	-2.8900	3.2328	-6.7366	0.2070	0.1459	-1.9293		
50	9.06	-18.25	1.5516	-3.1171	3.2970	-6.4295	0.2890	0.1895	-2.0090		
51	9.09	-19.10	1.5551	-2.9110	3.5024	-6.4592	0.3510	0.1906	-1.8719		
52	9.09	-19.79	1.6567	-3.1143	3.4577	-5.9297	0.4449	0.2188	-1.8798		
53	9.09	-20.20	1.6591	-3.0906	3.5922	-5.9500	0.4609	0.2047	-1.8626		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6 159 0.97 1.7			0.0	B2WOF12	0.0	0	0	0	0	FIXED				
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	9.08	19.89	-0.9278	0.0224	-0.3022	-0.0241	0.3257	0.2510	0.0348	-0.0623	0.1386	-0.2481		
2	9.09	19.52	-0.9326	0.0222	-0.2965	-0.0238	0.3179	0.2516	0.0346	-0.0647	0.1377	-0.2570		
3	9.09	18.80	-0.9187	0.0217	-0.2959	-0.0236	0.3221	0.2600	0.0347	-0.0619	0.1334	-0.2379		
4	9.09	18.01	-0.8806	0.0208	-0.2816	-0.0236	0.3198	0.2836	0.0339	-0.0665	0.1196	-0.2343		
5	9.09	17.18	-0.8350	0.0191	-0.2690	-0.0229	0.3221	0.3058	0.0339	-0.0712	0.1108	-0.2327		
6	9.07	16.38	-0.7850	0.0209	-0.2579	-0.0267	0.3285	0.2733	0.0331	-0.0709	0.1211	-0.2595		
7	9.10	15.65	-0.7607	0.0192	-0.2494	-0.0253	0.3278	0.2708	0.0329	-0.0671	0.1217	-0.2477		
8	9.07	14.91	-0.6822	0.0209	-0.2402	-0.0307	0.3521	0.2673	0.0329	-0.0695	0.1231	-0.2601		
9	9.09	14.11	-0.6695	0.0227	-0.2255	-0.0339	0.3368	0.2779	0.0328	-0.0733	0.1101	-0.2635		
10	9.06	13.36	-0.6548	-0.0214	-0.2146	-0.0327	0.3277	0.2733	0.0329	-0.0753	0.1205	-0.2756		
11	9.07	12.65	-0.5876	0.0230	-0.2033	-0.0391	0.3460	0.2794	0.0325	-0.0774	0.1164	-0.2768		
12	9.06	11.81	-0.5290	0.0239	-0.2001	-0.0452	0.3782	0.2837	0.0322	-0.0786	0.1136	-0.2771		
13	9.05	11.05	-0.4935	0.0237	-0.1869	-0.0480	0.3788	0.2862	0.0323	-0.0793	0.1128	-0.2770		
14	9.04	10.20	-0.4591	0.0229	-0.1774	-0.0500	0.3864	0.2699	0.0319	-0.0865	0.1184	-0.3207		
15	9.03	9.46	-0.4047	0.0224	-0.1666	-0.0553	0.4115	0.2649	0.0316	-0.0870	0.1193	-0.3285		
16	9.04	8.63	-0.3871	0.0259	-0.1465	-0.0670	0.3784	0.2814	0.0314	-0.0887	0.1115	-0.3151		
17	9.02	7.84	-0.3178	0.0252	-0.1410	-0.0793	0.4436	0.2598	0.0312	-0.0888	0.1203	-0.3419		
18	9.03	7.03	-0.2768	0.0258	-0.1236	-0.0932	0.4466	0.2456	0.0311	-0.0947	0.1266	-0.3858		
19	9.00	6.31	-0.2269	0.0282	-0.1102	-0.1102	0.4857	0.2462	0.0312	-0.0947	0.1267	-0.3849		
20	9.01	5.46	-0.1985	0.0292	-0.1051	-0.1471	0.5297	0.2287	0.0314	-0.0977	0.1373	-0.4272		
21	9.03	4.63	-0.1788	0.0342	-0.0861	-0.1915	0.4814	0.2240	0.0317	-0.0977	0.1415	-0.4364		
22	9.02	3.84	-0.1666	0.0344	-0.0740	-0.2067	0.4443	0.2090	0.0318	-0.1047	0.1524	-0.5012		
23	9.00	3.09	-0.0913	0.0390	-0.0666	-0.3853	0.7297	0.1697	0.0321	-0.1040	0.1891	-0.6132		
24	9.00	2.33	-0.0513	0.0276	-0.0524	-0.5379	1.0213	0.1635	0.0322	-0.1094	0.1969	-0.6692		
25	9.02	1.56	-0.0678	0.0195	-0.0301	-0.2676	0.4438	0.1222	0.0325	-0.1111	0.2659	-0.9090		
26	9.02	0.88	-0.0275	0.0093	-0.0199	-0.3399	0.7223	0.1115	0.0324	-0.1206	0.2910	-1.0820		
27	9.01	0.08	-0.0128	0.0012	-0.0088	-0.0937	0.6848	0.0721	0.0329	-0.1244	0.4562	-1.7250		
28	9.00	-0.72	0.0355	-0.0060	-0.0015	-0.1690	-0.0414	0.0350	0.0327	-0.1277	0.9341	-3.6496		
29	8.99	-1.53	0.0487	-0.0173	0.0192	-0.3562	0.3948	0.0580	0.0328	-0.1424	0.5663	-2.4564		
30	9.00	-2.39	0.0806	-0.0268	0.0373	-0.3324	0.4622	0.0551	0.0328	-0.1546	0.5952	-2.8065		
31	9.02	-3.15	0.0884	-0.0324	0.0504	-0.3676	0.5708	0.0465	0.0329	-0.1606	0.7085	-3.4539		
32	9.02	-3.92	0.1309	-0.0331	0.0611	-0.2532	0.4669	0.0282	0.0330	-0.1671	1.1718	-5.9256		
33	9.02	-4.71	0.1642	-0.0324	0.0789	-0.1973	0.4806	0.0203	0.0325	-0.1759	1.6032	-8.6668		
34	9.01	-5.43	0.1711	-0.0302	0.0901	-0.1765	0.5267	0.0256	0.0322	-0.1875	1.2545	-7.3269		
35	9.03	-6.23	0.2370	-0.0255	0.0933	-0.1078	0.3936	0.0052	0.0305	-0.1902	5.8740	-36.5899		
36	9.01	-6.98	0.2577	-0.0251	0.1080	-0.0974	0.4194	-0.0202	0.0288	-0.1972	-1.4280	9.7639		
37	9.03	-7.80	0.2982	-0.0254	0.1270	-0.0851	0.4257	-0.0176	0.0264	-0.2079	-1.4997	11.8162		
38	9.03	-8.62	0.3290	-0.0268	0.1423	-0.0816	0.4326	-0.0177	0.0298	-0.2207	-1.4037	12.4688		
39	9.03	-9.43	0.4145	-0.0260	0.1567	-0.0628	0.3781	-0.0504	0.0229	-0.2330	-0.4543	4.6229		
40	9.05	-10.18	0.4633	-0.0251	0.1674	-0.0543	0.3613	-0.0755	0.0216	-0.2403	-0.2867	3.1835		
41	9.06	-10.91	0.4868	-0.0245	0.1862	-0.0503	0.3825	-0.1098	0.0208	-0.2545	-0.1894	2.3186		
42	9.05	-11.67	0.5552	-0.0230	0.1950	-0.0415	0.3512	-0.1381	0.0196	-0.2619	-0.1419	1.8966		
43	9.04	-12.51	0.6276	-0.0220	0.2062	-0.0350	0.3286	-0.1304	0.0191	-0.2802	-0.1468	2.1492		
44	9.06	-13.28	0.6269	-0.0214	0.2249	-0.0341	0.3587	-0.1794	0.0178	-0.2819	-0.0995	1.5718		
45	9.07	-14.17	0.6709	-0.0211	0.2340	-0.0314	0.3489	-0.1722	0.0172	-0.2918	-0.0999	1.6950		
46	9.07	-14.95	0.7432	-0.0212	0.2321	-0.0286	0.3124	-0.2146	0.0163	-0.2907	-0.0762	1.3546		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	159	0.97	1.7	0.0	B2HOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	9.05	-15.78	0.8030	-0.0191	0.2463	-0.0238	0.3067	-0.2392	0.0151	-0.3101	-0.0633	1.2968
48	9.08	-16.56	0.8194	-0.0209	0.2629	-0.0256	0.3209	-0.1701	0.0116	-0.3104	-0.0685	1.8253
49	9.08	-17.36	0.8410	-0.0214	0.2745	-0.0255	0.3263	-0.2118	0.0110	-0.3060	-0.0519	1.4451
50	9.06	-18.25	0.8893	-0.0244	0.2780	-0.0275	0.3126	-0.1463	0.0102	-0.3021	-0.0700	2.0653
51	9.09	-19.10	0.9276	-0.0228	0.3019	-0.0246	0.3255	-0.1760	0.0114	-0.3270	-0.0650	1.8582
52	9.09	-19.79	1.0029	-0.0253	0.3011	-0.0253	0.3002	-0.2217	0.0128	-0.3156	-0.0577	1.4239
53	9.09	-20.20	0.9628	-0.0243	0.3160	-0.0252	0.3282	-0.2268	0.0147	-0.3219	-0.0650	1.4196

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	159	0.97	1.7	0.0	B2WUF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	9.08	19.89	-0.7680	-0.0224	-0.2801	0.0292	0.3647	0.1180	-0.0459	0.0880	-0.3893	0.7459
2	9.09	19.52	-0.8116	-0.0272	-0.2552	0.0335	0.3638	0.1115	-0.0469	0.0848	-0.4210	0.7610
3	9.09	18.80	-0.9040	-0.0375	-0.2562	0.0415	0.3277	0.1060	-0.0473	0.0803	-0.4461	0.7577
4	9.09	18.01	-0.9544	-0.0374	-0.3364	0.0392	0.3525	0.0918	-0.0464	0.0752	-0.5059	0.8191
5	9.09	17.18	-1.0672	-0.0321	-0.3887	0.0301	0.3642	0.0962	-0.0417	0.0671	-0.4339	0.6981
6	9.07	16.38	-1.0752	-0.0306	-0.4015	0.0284	0.3734	0.1647	-0.0499	0.0855	-0.3029	0.5190
7	9.10	15.65	-1.0728	-0.0128	-0.4277	0.0119	0.3986	0.0957	-0.0366	0.0772	-0.3824	0.8066
8	9.07	14.91	-1.0395	-0.0091	-0.4291	0.0008	0.4128	0.2062	-0.0395	0.0889	-0.1918	0.4312
9	9.09	14.11	-1.0423	-0.0033	-0.4187	0.0032	0.4017	0.2310	-0.0375	0.1105	-0.1710	0.4782
10	9.06	13.36	-1.0266	-0.0012	-0.4032	0.0012	0.3927	0.2337	-0.0399	0.1170	-0.1709	0.5005
11	9.07	12.65	-0.9066	-0.0023	-0.3987	0.0026	0.4397	0.3055	-0.0383	0.1217	-0.1253	0.3983
12	9.06	11.81	-0.8747	-0.0024	-0.3756	0.0027	0.4293	0.3386	-0.0350	0.1346	-0.1033	0.3976
13	9.05	11.05	-0.8664	-0.0031	-0.3525	0.0036	0.4068	0.3560	-0.0341	0.1451	-0.0957	0.4076
14	9.04	10.20	-0.7659	-0.0033	-0.3425	0.0043	0.4472	0.3725	-0.0319	0.1530	-0.0856	0.4108
15	9.03	9.46	-0.7396	-0.0034	-0.3102	0.0046	0.4195	0.4031	-0.0289	0.1559	-0.0718	0.3868
16	9.04	8.63	-0.6325	-0.0039	-0.2964	0.0062	0.4687	0.4385	-0.0249	0.1653	-0.0569	0.3770
17	9.02	7.84	-0.5893	-0.0048	-0.2667	0.0082	0.4527	0.4072	-0.0227	0.1802	-0.0557	0.4425
18	9.03	7.03	-0.5022	-0.0039	-0.2487	0.0078	0.4953	0.4497	-0.0169	0.1814	-0.0377	0.4035
19	9.00	6.31	-0.3960	-0.0040	-0.2256	0.0102	0.5698	0.5266	-0.0128	0.1749	-0.0243	0.3321
20	9.01	5.46	-0.3497	-0.0041	-0.1920	0.0119	0.5491	0.4814	-0.0100	0.1905	-0.0208	0.3957
21	9.03	4.63	-0.2860	-0.0055	-0.1646	0.0194	0.5754	0.5617	-0.0071	0.1878	-0.0127	0.3343
22	9.02	3.84	-0.2078	-0.0050	-0.1395	0.0243	0.6715	0.5542	-0.0062	0.1888	-0.0113	0.3406
23	9.00	3.09	-0.1803	-0.0052	-0.1035	0.0291	0.5761	0.5349	-0.0046	0.2065	-0.0086	0.3861
24	9.00	2.33	-0.1006	-0.0045	-0.0872	0.0452	0.8670	0.6046	-0.0036	0.2010	-0.0060	0.3324
25	9.02	1.56	-0.0296	-0.0042	-0.0621	0.1436	2.0367	0.6060	-0.0028	0.2150	-0.0046	0.3548
26	9.02	0.88	0.0020	-0.0043	-0.0414	-2.1746	-20.7168	0.6023	-0.0027	0.2202	-0.0046	0.3656
27	9.01	0.08	0.0441	-0.0044	-0.0142	-0.1009	-0.3221	0.6491	-0.0020	0.2261	-0.0031	0.3483
28	9.00	-0.72	0.1005	-0.0025	0.0050	-0.0254	0.0496	0.6681	-0.0029	0.2264	-0.0044	0.3389
29	8.99	-1.53	0.1339	-0.0026	0.0292	-0.0198	0.2182	0.6817	-0.0029	0.2358	-0.0043	0.3460
30	9.00	-2.39	0.2197	-0.0019	0.0529	-0.0089	0.2408	0.6731	-0.0026	0.2408	-0.0039	0.3577
31	9.02	-3.15	0.2441	-0.0021	0.0802	-0.0088	0.3287	0.7063	-0.0030	0.2436	-0.0043	0.3450
32	9.02	-3.92	0.2856	-0.0002	0.1190	-0.0007	0.4165	0.7003	-0.0035	0.2508	-0.0050	0.3582
33	9.02	-4.71	0.4084	-0.0004	0.1306	-0.0010	0.3198	0.7484	-0.0045	0.2459	-0.0061	0.3285
34	9.01	-5.43	0.4445	-0.0001	0.1615	-0.0003	0.3643	0.7526	-0.0052	0.2472	-0.0069	0.3284
35	9.03	-6.23	0.5255	0.0018	0.1461	0.0034	0.3732	0.7518	-0.0044	0.2599	-0.0059	0.3457
36	9.01	-6.98	0.5785	0.0029	0.2227	0.0050	0.3849	0.7324	-0.0038	0.2594	-0.0052	0.3542
37	9.03	-7.80	0.6564	0.0036	0.2443	0.0055	0.3722	0.7806	-0.0048	0.2588	-0.0061	0.3315
38	9.03	-8.62	0.6497	0.0036	0.2735	0.0051	0.3909	0.7535	-0.0043	0.2671	-0.0057	0.3544
39	9.03	-9.43	0.7452	0.0039	0.3009	0.0052	0.4038	0.7498	-0.0033	0.2609	-0.0044	0.3480
40	9.05	-10.18	0.8330	0.0044	0.3127	0.0053	0.3753	0.7507	-0.0032	0.2660	-0.0043	0.3544
41	9.06	-10.91	0.8779	0.0036	0.3391	0.0041	0.3863	0.7777	-0.0024	0.2674	-0.0031	0.3439
42	9.05	-11.67	0.9445	0.0046	0.3546	0.0049	0.3755	0.7843	-0.0025	0.2698	-0.0032	0.3441
43	9.04	-12.51	1.0355	0.0050	0.3666	0.0048	0.3541	0.7656	-0.0017	0.2723	-0.0023	0.3557
44	9.06	-13.28	1.0648	0.0055	0.3890	0.0052	0.3653	0.7326	-0.0015	0.2780	-0.0021	0.3795
45	9.07	-14.17	1.1182	0.0074	0.4625	0.0066	0.3599	0.7809	-0.0015	0.2705	-0.0020	0.3464
46	9.07	-14.95	1.1480	0.0156	0.3998	0.0136	0.3483	0.7754	-0.0024	0.2718	-0.0031	0.3505

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		159 0.97		1.7		0.0	B2MUF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	9.05	-15.78	1.1372	0.0239	0.3970	0.0211	0.3491	0.7804	-0.0017	0.2630	-0.0022	0.3371	
48	9.08	-16.56	1.1448	0.0352	0.3677	0.0307	0.3212	0.7525	-0.0024	0.2742	-0.0032	0.3644	
49	9.08	-17.36	1.0747	0.0409	0.3420	0.0381	0.3182	0.7546	-0.0023	0.2731	-0.0031	0.3620	
50	9.06	-18.25	0.9935	0.0403	0.2558	0.0406	0.2977	0.7923	-0.0004	0.2746	-0.0006	0.3466	
51	9.09	-19.10	0.9737	0.0403	0.2807	0.0414	0.2882	0.7881	0.0028	0.2637	0.0036	0.3346	
52	9.09	-19.79	0.7894	0.0210	0.2407	0.0267	0.3050	0.7690	0.0049	0.2671	0.0064	0.3474	
53	9.09	-20.20	0.7351	0.0201	0.2489	0.0273	0.3387	0.7806	0.0068	0.2629	0.0088	0.3368	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		160	0.97	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	12.17	19.77	2.3213	-3.9177	-3.7232	5.6704	-0.3470	0.0841	-1.6877		
2	12.15	19.56	2.3358	-4.0380	-3.6844	5.7511	-0.3380	0.0663	-1.7288		
3	12.15	18.77	2.3174	-4.0332	-3.6059	5.5552	-0.3150	0.0647	-1.7404		
4	12.16	18.00	2.2827	-3.9327	-3.5808	5.6581	-0.2850	0.0585	-1.7228		
5	12.14	17.14	2.1957	-3.6589	-3.5788	6.2852	-0.1840	0.0258	-1.6664		
6	12.13	16.35	2.2263	-3.9437	-3.4040	6.2843	-0.1100	0.0167	-1.7714		
7	12.15	15.61	2.1501	-3.7921	-3.2509	6.2900	-0.0900	0.0111	-1.7637		
8	12.14	14.84	2.1404	-3.9565	-3.0241	6.0955	-0.0480	0.0231	-1.8484		
9	12.11	14.14	2.1401	-4.1120	-2.8233	5.8774	0.0040	0.0292	-1.9214		
10	12.10	13.33	2.1079	-4.3339	-2.7204	5.6174	0.0250	0.0527	-1.9991		
11	12.08	12.58	2.1363	-4.4047	-2.5476	5.3004	0.0580	0.0640	-2.0618		
12	12.09	11.75	2.1389	-4.5853	-2.3517	4.9581	0.0670	0.0700	-2.1437		
13	12.09	10.99	2.1832	-4.7623	-2.1163	4.5556	0.0560	0.0923	-2.1813		
14	12.07	10.18	2.1960	-4.8582	-1.9471	4.1298	0.0560	0.0947	-2.2123		
15	12.06	9.37	2.2512	-5.0504	-1.7711	3.6713	0.0520	0.0944	-2.2434		
16	12.05	8.55	2.2494	-5.1069	-1.5632	3.3473	0.0680	0.0846	-2.2703		
17	12.05	7.77	2.2620	-5.1375	-1.3536	2.9329	0.0610	0.0755	-2.2712		
18	12.05	6.98	2.2615	-5.2578	-1.2882	2.6864	0.0490	0.0813	-2.3249		
19	12.04	6.24	2.2607	-5.3287	-1.1251	2.2730	0.0440	0.0856	-2.3571		
20	12.04	5.35	2.2911	-5.4422	-0.9476	1.8525	0.0500	0.0753	-2.3754		
21	12.04	4.57	2.3049	-5.5246	-0.7593	1.4570	0.0380	0.0855	-2.3969		
22	12.05	3.74	2.3135	-5.5366	-0.6177	1.1298	0.0200	0.0906	-2.3932		
23	12.03	3.02	2.2630	-5.5329	-0.4205	0.8587	0.0250	0.0991	-2.4449		
24	12.02	2.23	2.3083	-5.6333	-0.4009	0.5743	0.0270	0.1051	-2.4405		
25	12.03	1.47	2.2999	-5.6119	-0.2654	0.3835	0.0300	0.1061	-2.4399		
26	12.02	0.72	2.3130	-5.6499	-0.1971	0.3519	0.0240	0.1051	-2.4427		
27	12.05	0.0	2.2904	-5.5712	-0.0780	0.2282	0.0150	0.1197	-2.4324		
28	12.04	-0.79	2.2714	-5.5856	0.0654	0.0134	0.0220	0.1210	-2.4591		
29	12.02	-1.57	2.2898	-5.6164	0.1542	-0.0769	0.0200	0.1303	-2.4528		
30	12.02	-2.36	2.2966	-5.6039	0.2463	-0.3428	0.0420	0.1238	-2.4401		
31	12.05	-3.19	2.3144	-5.6098	0.3589	-0.5954	0.0250	0.1232	-2.4239		
32	12.04	-4.00	2.2909	-5.5859	0.4999	-0.9159	0.0130	0.1243	-2.4383		
33	12.01	-4.79	2.2611	-5.5432	0.7369	-1.2346	-0.0140	0.1368	-2.4516		
34	12.02	-5.55	2.2522	-5.4568	0.8757	-1.6659	-0.0150	0.1299	-2.4229		
35	12.04	-6.35	2.2618	-5.4262	1.0269	-2.0165	-0.0260	0.1291	-2.3991		
36	12.03	-7.15	2.2350	-5.2537	1.1678	-2.4129	-0.0290	0.1297	-2.3507		
37	12.05	-7.92	2.2095	-5.1670	1.3020	-2.7167	-0.0170	0.1174	-2.3385		
38	12.07	-8.72	2.2110	-4.9962	1.5380	-3.1921	-0.0250	0.1111	-2.2597		
39	12.05	-9.51	2.2237	-4.9310	1.6254	-3.5224	-0.0270	0.1246	-2.2174		
40	12.06	-10.30	2.1943	-4.8518	1.9106	-3.9666	-0.0210	0.1152	-2.2111		
41	12.07	-11.04	2.2213	-4.7686	2.0254	-4.3541	0.0	0.1229	-2.1468		
42	12.09	-11.88	2.2242	-4.6677	2.2014	-4.7468	0.0220	0.1111	-2.0986		
43	12.08	-12.62	2.1819	-4.4615	2.4057	-5.0717	0.0380	0.1082	-2.0448		
44	12.11	-13.40	2.2603	-4.4453	2.5962	-5.4734	0.0680	0.0963	-1.9667		
45	12.11	-14.25	2.2334	-4.3366	2.6937	-5.7380	0.1220	0.1062	-1.9417		
46	12.12	-15.11	2.2527	-4.2656	2.8320	-6.0756	0.1520	0.0923	-1.8936		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 160 0.97 1.7									
PHI CONF L OEL1 OEL2 DEL3 OEL4 TRANSITION									
0.0 82WOF12 0.0 0 0 0 0 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CV	CLM	CLL	CAF	XCP
47	12.09	-15.86	2.1805	-4.2166	3.0232	-6.3652	0.1720	0.0903	-1.9337
48	12.13	-16.67	2.2258	-4.2970	3.1238	-6.2891	0.2060	0.1108	-1.9305
49	12.10	-17.49	2.2247	-4.2984	3.2300	-6.0108	0.2720	0.1443	-1.9321
50	12.11	-18.31	2.2087	-4.2030	3.2978	-5.7097	0.3210	0.1705	-1.9029
51	12.11	-19.18	2.2221	-4.1228	3.4603	-5.5624	0.3929	0.1889	-1.8554
52	12.11	-19.91	2.2732	-4.1644	3.6333	-5.4896	0.4419	0.1786	-1.8319

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	16.0	0.97	1.7	0.0	BZWF-12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	12.17	19.77	-0.8042	0.0325	-0.2600	-0.0405	0.3233	0.3508	0.0327	0.0165	0.0932	0.0471
2	12.15	19.56	-0.7916	0.0321	-0.2625	-0.0405	0.3116	0.3168	0.0328	0.0215	0.1036	0.0678
3	12.15	18.77	-0.7705	0.0327	-0.2526	-0.0424	0.3271	0.3310	0.0330	0.0188	0.0996	0.0569
4	12.16	18.00	-0.7548	0.0333	-0.2474	-0.0441	0.3278	0.3511	0.0324	0.0148	0.0924	0.0422
5	12.14	17.14	-0.7160	0.0323	-0.2424	-0.0452	0.3392	0.3636	0.0322	0.0101	0.0887	0.0277
6	12.13	16.35	-0.6299	0.0338	-0.2363	-0.0536	0.3751	0.3407	0.0320	0.0141	0.0940	0.0413
7	12.15	15.61	-0.6115	0.0341	-0.2279	-0.0557	0.3726	0.3421	0.0320	0.0099	0.0936	0.0290
8	12.14	14.84	-0.5914	0.0338	-0.2136	-0.0572	0.3611	0.3269	0.0315	0.0126	0.0963	0.0384
9	12.11	14.14	-0.5223	0.0362	-0.1467	-0.0693	0.3767	0.3256	0.0316	0.0082	0.0972	0.0253
10	12.10	13.33	-0.4888	0.0369	-0.1876	-0.0756	0.3837	0.3377	0.0314	0.0029	0.0929	0.0085
11	12.08	12.58	-0.4291	0.0367	-0.1731	-0.0856	0.4033	0.3371	0.0306	-0.0002	0.0907	-0.0007
12	12.09	11.75	-0.4040	0.0366	-0.1599	-0.0907	0.3958	0.3491	0.0306	-0.0047	0.0876	-0.0136
13	12.09	10.99	-0.3558	0.0333	-0.1617	-0.0937	0.4543	0.3501	0.0307	-0.0064	0.0878	-0.0183
14	12.07	10.18	-0.3375	0.0339	-0.1383	-0.1004	0.4096	0.3620	0.0303	-0.0124	0.0837	-0.0344
15	12.06	9.37	-0.2971	0.0323	-0.1244	-0.1088	0.4187	0.3260	0.0303	-0.0067	0.0929	-0.0207
16	12.05	8.55	-0.2152	0.0342	-0.1141	-0.1191	0.5302	0.3302	0.0303	-0.0166	0.0919	-0.0504
17	12.05	7.77	-0.1754	0.0353	-0.1051	-0.2012	0.5995	0.3133	0.0301	-0.0177	0.0960	-0.0564
18	12.05	6.98	-0.1788	0.0368	-0.0935	-0.2061	0.5228	0.2995	0.0302	-0.0210	0.1009	-0.0700
19	12.04	6.24	-0.1178	0.0378	-0.0842	-0.3212	0.7152	0.2897	0.0303	-0.0221	0.1045	-0.0764
20	12.04	5.35	-0.0823	0.0394	-0.0568	-0.4793	0.6904	0.2947	0.0303	-0.0293	0.1029	-0.0993
21	12.04	4.57	-0.0339	0.0444	-0.0545	-1.3095	1.6075	0.2826	0.0305	-0.0291	0.1067	-0.1019
22	12.05	3.74	-0.0313	0.0467	-0.0456	-1.4917	1.4578	0.2436	0.0307	-0.0318	0.1262	-0.1307
23	12.03	3.02	0.0224	0.0421	-0.0428	1.8814	-1.9123	0.2405	0.0312	-0.0415	0.1297	-0.1724
24	12.02	2.23	-0.0062	0.0319	-0.0164	-5.1523	2.6397	0.1903	0.0319	-0.0420	0.1679	-0.2206
25	12.03	1.47	0.0398	0.0199	-0.0176	0.5012	-0.4432	0.1974	0.0330	-0.0552	0.1674	-0.2798
26	12.02	0.72	0.0291	0.0079	-0.0105	0.2731	-0.3609	0.2013	0.0337	-0.0646	0.1674	-0.3210
27	12.05	0.0	-0.0327	-0.0005	-0.0027	0.0168	0.0825	0.1591	0.0339	-0.0744	0.2133	-0.4675
28	12.04	-0.79	-0.0142	-0.0108	0.0087	0.7604	-0.6104	0.1476	0.0341	-0.0844	0.2313	-0.5719
29	12.02	-1.57	0.0096	-0.0235	0.0080	-2.4527	0.8332	0.1512	0.0346	-0.0952	0.2288	-0.6297
30	12.02	-2.36	0.0105	-0.0372	0.0330	-3.5470	3.1627	0.1501	0.0339	-0.1104	0.2258	-0.7354
31	12.05	-3.19	0.0313	-0.0448	0.0339	-1.4327	1.0840	0.1348	0.0339	-0.1173	0.2518	-0.8700
32	12.04	-4.00	0.0470	-0.0469	0.0482	-0.9577	1.0247	0.1265	0.0333	-0.1240	0.2636	-0.9806
33	12.01	-4.79	0.0586	-0.0439	0.0473	-0.7490	0.8076	0.0930	0.0332	-0.1268	0.3575	-1.3636
34	12.02	-5.55	0.0851	-0.0403	0.0680	-0.4735	0.7997	0.1072	0.0323	-0.1331	0.3013	-1.2414
35	12.04	-6.35	0.1265	-0.0382	0.0674	-0.3023	0.5332	0.0815	0.0320	-0.1374	0.3926	-1.6864
36	12.03	-7.15	0.1691	-0.0372	0.0825	-0.2213	0.4909	0.1350	0.0302	-0.1541	0.2237	-1.1416
37	12.05	-7.92	0.2266	-0.0351	0.0994	-0.1551	0.4387	0.0912	0.0278	-0.1614	0.3048	-1.7699
38	12.07	-8.72	0.2746	-0.0328	0.1087	-0.1194	0.3958	0.0945	0.0262	-0.1743	0.2772	-1.8446
39	12.05	-9.51	0.2650	-0.0334	0.1241	-0.1260	0.4683	0.1005	0.0243	-0.1875	0.2422	-1.8658
40	12.06	-10.30	0.3648	-0.0340	0.1288	-0.0933	0.3529	0.0643	0.0228	-0.1961	0.3553	-3.0509
41	12.07	-11.04	0.3951	-0.0369	0.1492	-0.0934	0.3775	0.0720	0.0211	-0.2119	0.2930	-2.9432
42	12.09	-11.88	0.4495	-0.0361	0.1665	-0.0803	0.3712	-0.0266	0.0195	-0.2227	-0.7348	8.3746
43	12.08	-12.62	0.5039	-0.0364	0.1775	-0.0723	0.3523	-0.0596	0.0190	-0.2331	-0.3187	3.9121
44	12.11	-13.40	0.5388	-0.0368	0.1921	-0.0684	0.3566	-0.0825	0.0193	-0.2443	-0.2339	2.9623
45	12.11	-14.25	0.6114	-0.0324	0.2100	-0.0531	0.3435	-0.1298	0.0186	-0.2744	-0.1433	2.1144
46	12.12	-15.11	0.6776	-0.0282	0.2219	-0.0416	0.3275	-0.1637	0.0185	-0.2804	-0.1133	1.7132

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	160	0.97	1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	12.09	-15.86	0.7553	-0.0287	0.2292	-0.0381	0.3034	-0.1449	0.0161	-0.2817	-0.1111	1.9447		
48	12.13	-16.67	0.7426	-0.0298	0.2466	-0.0402	0.3321	-0.0925	0.0135	-0.2853	-0.1459	3.0846		
49	12.10	-17.49	0.7873	-0.0318	0.2491	-0.0404	0.3165	-0.1053	0.0131	-0.2869	-0.1244	2.7254		
50	12.11	-18.31	0.7251	-0.0337	0.2649	-0.0465	0.3653	-0.0577	0.0122	-0.2771	-0.2114	4.8029		
51	12.11	-19.18	0.8602	-0.0337	0.2626	-0.0392	0.3052	-0.1093	0.0144	-0.2875	-0.1322	2.6306		
52	12.11	-19.91	0.8471	-0.0343	0.2826	-0.0405	0.3336	-0.1080	0.0146	-0.2881	-0.1352	2.6684		

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	160	0.97	1.7	0.0	B2MDF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	12.17	19.77	-0.8163	-0.0242	-0.3198	0.0296	0.3918	0.1962	-0.0448	0.1016	-0.2286	0.5177
2	12.15	19.56	-0.8770	-0.0311	-0.3144	0.0355	0.3585	0.2119	-0.0472	0.1035	-0.2227	0.4885
3	12.15	18.77	-0.9138	-0.0367	-0.3121	0.0402	0.3415	0.1987	-0.0472	0.1108	-0.2378	0.5577
4	12.16	18.00	-0.9068	-0.0367	-0.3307	0.0405	0.3046	0.1995	-0.0461	0.1077	-0.2310	0.5397
5	12.14	17.14	-1.1165	-0.0331	-0.3096	0.0296	0.3490	0.1803	-0.0426	0.1065	-0.2365	0.5906
6	12.13	16.35	-1.0859	-0.0299	-0.4177	0.0275	0.3847	0.2296	-0.0513	0.1310	-0.2234	0.5706
7	12.15	15.61	-1.1254	-0.0168	-0.4292	0.0150	0.3814	0.2096	-0.0420	0.1241	-0.2034	0.5923
8	12.14	14.84	-1.0686	-0.0091	-0.4344	0.0086	0.4005	0.2773	-0.0412	0.1350	-0.1485	0.4868
9	12.11	14.14	-1.0867	-0.0029	-0.4267	0.0027	0.3927	0.3682	-0.0403	0.1478	-0.1095	0.4014
10	12.10	13.33	-1.0287	-0.0006	-0.4207	0.0006	0.4089	0.4066	-0.0386	0.1630	-0.0950	0.4008
11	12.08	12.58	-0.9734	-0.0018	-0.3990	0.0018	0.4099	0.4668	-0.0375	0.1759	-0.0803	0.3769
12	12.09	11.75	-0.8917	-0.0029	-0.3878	0.0033	0.4349	0.4766	-0.0355	0.1873	-0.0745	0.3930
13	12.09	10.99	-0.8255	-0.0030	-0.3674	0.0036	0.4450	0.4773	-0.0332	0.1925	-0.0695	0.4034
14	12.07	10.18	-0.7748	-0.0043	-0.3446	0.0055	0.4419	0.5227	-0.0294	0.1965	-0.0562	0.3759
15	12.06	9.37	-0.6965	-0.0044	-0.3238	0.0064	0.4649	0.5282	-0.0267	0.2052	-0.0505	0.3885
16	12.05	8.55	-0.6430	-0.0049	-0.3003	0.0077	0.4671	0.5899	-0.0202	0.2103	-0.0343	0.3564
17	12.05	7.77	-0.5609	-0.0053	-0.2742	0.0094	0.4888	0.6271	-0.0160	0.2070	-0.0256	0.3300
18	12.05	6.98	-0.5301	-0.0040	-0.2466	0.0075	0.4652	0.6095	-0.0122	0.2209	-0.0200	0.3624
19	12.04	6.24	-0.4135	-0.0039	-0.2321	0.0095	0.5612	0.6332	-0.0081	0.2251	-0.0128	0.3555
20	12.04	5.35	-0.3558	-0.0023	-0.2001	0.0065	0.5622	0.6714	-0.0040	0.2258	-0.0060	0.3363
21	12.04	4.57	-0.2773	-0.0017	-0.1715	0.0061	0.6184	0.6442	-0.0021	0.2388	-0.0033	0.3708
22	12.05	3.74	-0.2207	-0.0021	-0.1432	0.0095	0.6490	0.6912	-0.0012	0.2394	-0.0017	0.3464
23	12.03	3.02	-0.1469	-0.0018	-0.1154	0.0126	0.7859	0.7134	-0.0000	0.2446	-0.0001	0.3429
24	12.02	2.23	-0.0895	-0.0039	-0.0844	0.0436	0.9433	0.7461	0.0013	0.2547	0.0017	0.3414
25	12.03	1.47	-0.0213	-0.0032	-0.0651	0.1526	3.0562	0.7772	0.0017	0.2634	0.0023	0.3389
26	12.02	0.72	0.0100	-0.0034	-0.0363	-0.3399	-3.6268	0.8261	0.0006	0.2710	0.0007	0.3280
27	12.05	0.0	0.0641	-0.0035	-0.0112	-0.0546	-0.1754	0.8164	-0.0004	0.2779	-0.0005	0.3404
28	12.04	-0.79	0.1263	-0.0033	0.0112	-0.0261	0.0886	0.8759	-0.0009	0.2847	-0.0011	0.3250
29	12.02	-1.57	0.1246	-0.0033	0.0441	-0.0269	0.3541	0.8809	-0.0027	0.3001	-0.0031	0.3407
30	12.02	-2.36	0.1802	-0.0044	0.0714	-0.0244	0.3965	0.9289	-0.0033	0.3070	-0.0036	0.3305
31	12.05	-3.19	0.2850	-0.0035	0.0943	-0.0123	0.3263	0.9796	-0.0031	0.3057	-0.0032	0.3121
32	12.04	-4.00	0.3082	-0.0022	0.1334	-0.0073	0.4328	0.9778	-0.0055	0.3124	-0.0057	0.3195
33	12.01	-4.79	0.3927	-0.0027	0.1601	-0.0069	0.4076	0.9453	-0.0077	0.3182	-0.0082	0.3366
34	12.02	-5.55	0.4836	-0.0005	0.1839	-0.0011	0.3004	0.9827	-0.0071	0.3163	-0.0073	0.3218
35	12.04	-6.35	0.5630	0.0018	0.2073	0.0033	0.3602	1.0120	-0.0065	0.3175	-0.0065	0.3138
36	12.03	-7.15	0.5751	0.0026	0.2467	0.0046	0.4290	0.9625	-0.0078	0.3298	-0.0082	0.3427
37	12.05	-7.92	0.6545	0.0044	0.2962	0.0067	0.3914	1.0183	-0.0061	0.3158	-0.0060	0.3101
38	12.07	-8.72	0.7376	0.0049	0.2405	0.0067	0.3938	0.9997	-0.0060	0.3250	-0.0060	0.3251
39	12.05	-9.51	0.8320	0.0061	0.3027	0.0074	0.3639	1.0312	-0.0061	0.3231	-0.0059	0.3133
40	12.06	-10.30	0.9045	0.0046	0.3290	0.0073	0.3637	0.9978	-0.0055	0.3371	-0.0056	0.3378
41	12.07	-11.04	0.9763	0.0066	0.3412	0.0068	0.3495	1.0491	-0.0051	0.3262	-0.0049	0.3109
42	12.09	-11.88	0.9906	0.0058	0.3726	0.0059	0.3761	1.0162	-0.0037	0.3425	-0.0036	0.3371
43	12.08	-12.62	1.0251	0.0055	0.3909	0.0054	0.3813	1.0222	-0.0034	0.3400	-0.0033	0.3326
44	12.11	-13.40	1.1022	0.0065	0.4060	0.0059	0.3683	1.0441	-0.0039	0.3476	-0.0037	0.3329
45	12.11	-14.25	1.1529	0.0097	0.4112	0.0084	0.3568	1.0452	-0.0019	0.3474	-0.0018	0.3324
46	12.12	-15.11	1.1697	0.0173	0.4068	0.0148	0.3477	1.0422	-0.0011	0.3399	-0.0011	0.3261

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	160	0.97	1.7	0.0	B2WQF12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	12.09	-15.86	1.1942	0.0263	0.4048	0.0220	0.3390	1.0682	-0.0000	0.3531	-0.0000	0.3119		
48	12.13	-16.67	1.1786	0.0355	0.3824	0.0301	0.3245	1.0575	-0.0003	0.3399	-0.0003	0.3214		
49	12.10	-17.49	1.0852	0.0410	0.3249	0.0378	0.2944	1.0419	-0.0009	0.3489	-0.0009	0.3348		
50	12.11	-18.31	0.9679	0.0356	0.2976	0.0409	0.3075	1.0732	-0.0010	0.3371	-0.0010	0.3141		
51	12.11	-19.18	0.9558	0.0263	0.2672	0.0276	0.2796	1.0600	-0.0009	0.3397	-0.0009	0.3205		
52	12.11	-19.91	0.8425	0.0205	0.2650	0.0244	0.3145	1.0186	0.0007	0.3444	0.0007	0.3381		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	161	0.97	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.20	19.77	3.0173	-5.0891	-3.7437	4.9182	-0.3110	0.0772	-1.6853	
2	15.19	19.40	3.0694	-5.2500	-3.6782	4.9875	-0.3180	0.0604	-1.7104	
3	15.19	18.61	3.0109	-5.1071	-3.6682	5.0075	-0.2710	0.0553	-1.6462	
4	15.19	17.79	3.0409	-5.1881	-3.6135	4.9140	-0.2380	0.0585	-1.7061	
5	15.18	16.98	2.9563	-4.9487	-3.5549	5.3489	-0.1340	0.0436	-1.6740	
6	15.19	16.21	2.9437	-5.0331	-3.4305	5.5825	-0.0480	0.0189	-1.7098	
7	15.16	15.44	2.8415	-4.9070	-3.3218	5.7533	0.0160	0.0178	-1.7269	
8	15.17	14.67	2.8698	-5.0516	-3.2182	5.5793	0.0660	0.0198	-1.7603	
9	15.11	13.88	2.7240	-5.3835	-2.9220	5.5926	0.1000	0.0350	-1.9763	
10	15.12	13.16	2.7638	-5.5042	-2.6854	5.2084	0.1160	0.0345	-1.9915	
11	15.11	12.33	2.8834	-5.6616	-2.4711	4.6423	0.0760	0.0438	-1.9635	
12	15.13	11.61	2.8878	-5.7807	-2.2473	4.2431	0.0970	0.0554	-2.0018	
13	15.11	10.81	2.8423	-5.9560	-2.0056	3.9267	0.0980	0.0731	-2.0592	
14	15.10	10.00	2.9355	-6.1415	-1.9417	3.5603	0.1200	0.0704	-2.0921	
15	15.07	9.25	2.9108	-6.1789	-1.7215	3.1100	0.1110	0.0853	-2.1227	
16	15.09	8.40	2.9185	-6.3026	-1.5431	2.8222	0.1160	0.0924	-2.1595	
17	15.08	7.56	2.9319	-6.4654	-1.4091	2.5257	0.1390	0.1134	-2.2052	
18	15.06	6.79	2.9408	-6.6008	-1.2078	2.1489	0.1190	0.1256	-2.2446	
19	15.05	6.02	2.9529	-6.6467	-0.9910	1.7203	0.0730	0.1151	-2.2509	
20	15.07	5.13	2.9595	-6.7170	-0.8048	1.2647	0.0760	0.1224	-2.2636	
21	15.05	4.41	2.9561	-6.7312	-0.6707	1.0160	0.0940	0.1140	-2.2771	
22	15.06	3.57	2.9256	-6.7145	-0.6096	0.8325	0.1200	0.1261	-2.3156	
23	15.06	2.85	2.9546	-6.8571	-0.5311	0.5666	0.0970	0.1272	-2.3208	
24	15.06	2.01	2.9693	-6.9267	-0.3824	0.4343	0.0690	0.1327	-2.3328	
25	15.05	1.28	2.9639	-6.8981	-0.2495	0.3493	0.0630	0.1344	-2.3274	
26	15.05	0.53	2.9600	-6.9546	-0.1559	0.2592	0.0500	0.1381	-2.3336	
27	15.05	-0.23	2.9413	-6.9145	-0.1222	0.1871	0.0130	0.1300	-2.3508	
28	15.02	-1.04	2.9628	-6.9946	-0.0974	0.2370	0.0220	0.1176	-2.3608	
29	15.04	-1.77	2.9394	-6.8988	0.1017	0.1096	-0.0050	0.0969	-2.3470	
30	15.02	-2.63	2.9312	-6.8913	0.1548	-0.1077	-0.0040	0.0859	-2.3510	
31	15.02	-3.46	2.9241	-6.9954	0.3232	-0.4354	-0.0080	0.0687	-2.3923	
32	14.99	-4.24	2.9119	-7.0193	0.4954	-0.7786	-0.0210	0.0664	-2.4405	
33	15.01	-4.97	2.9321	-6.9986	0.6454	-1.0172	-0.0480	0.0716	-2.3869	
34	15.03	-5.76	2.9134	-6.8424	0.8618	-1.4415	-0.0880	0.0757	-2.3486	
35	15.01	-6.55	2.8954	-6.7442	1.0487	-1.8331	-0.1000	0.0746	-2.3293	
36	15.01	-7.41	2.8750	-6.5957	1.2508	-2.2881	-0.0970	0.0834	-2.2941	
37	15.06	-8.19	2.8696	-6.4662	1.4695	-2.6102	-0.1080	0.0948	-2.2533	
38	15.06	-8.98	2.8890	-6.3433	1.5559	-2.9042	-0.0800	0.0828	-2.1957	
39	15.05	-9.75	2.8627	-6.2245	1.6582	-3.2093	-0.0370	0.0818	-2.1743	
40	15.05	-10.58	2.8204	-6.1723	1.8101	-3.6469	-0.0360	0.0891	-2.1884	
41	15.11	-11.27	2.9102	-6.0380	2.0758	-4.0540	-0.0360	0.0869	-2.0748	
42	15.08	-12.11	2.8191	-5.8355	2.3323	-4.4431	-0.0490	0.0955	-2.0700	
43	15.13	-12.84	2.8568	-5.6063	2.5385	-4.7797	-0.0300	0.0823	-1.9624	
44	15.11	-13.69	2.7675	-5.5693	2.7196	-5.3336	-0.0200	0.0800	-2.0124	
45	15.14	-14.50	2.9039	-5.2933	2.9328	-5.2468	0.0210	0.0735	-1.8228	
46	15.12	-15.36	2.8895	-5.1782	3.0556	-5.3347	0.0710	0.0763	-1.7921	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		161	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	15.14	-16.09	2.9574	-5.3392	3.1368	-5.4244	0.1290	0.0829	-1.8054			
48	15.13	-16.94	2.9728	-5.2888	3.2407	-5.0619	0.2210	0.0933	-1.7791			
49	15.15	-17.79	3.0262	-5.4875	3.1985	-4.7528	0.3120	0.1125	-1.8133			
50	15.14	-18.66	3.0094	-5.3910	3.3093	-4.7939	0.3820	0.1146	-1.7914			
51	15.17	-19.44	3.0208	-5.3000	3.4461	-4.6856	0.4329	0.1105	-1.7545			
52	15.16	-20.23	3.1349	-5.3777	3.7110	-4.6395	0.4649	0.1155	-1.7154			

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	161	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.20	19.77	-0.6153	0.0427	-0.2312	-0.0694	0.3758	0.4270	0.0301	0.0831	0.0706	0.1946
2	15.19	19.40	-0.6257	0.0432	-0.2329	-0.0690	0.3722	0.4156	0.0303	0.0866	0.0729	0.2084
3	15.19	18.61	-0.6293	0.0424	-0.2126	-0.0674	0.3378	0.4367	0.0301	0.0799	0.0690	0.1830
4	15.19	17.79	-0.5922	0.0429	-0.2100	-0.0725	0.3547	0.4138	0.0299	0.0850	0.0723	0.2054
5	15.18	16.98	-0.5270	0.0406	-0.2035	-0.0770	0.3861	0.4117	0.0300	0.0793	0.0728	0.1926
6	15.19	16.21	-0.5237	0.0418	-0.1852	-0.0798	0.3536	0.3949	0.0302	0.0796	0.0766	0.2016
7	15.16	15.44	-0.4470	0.0412	-0.1700	-0.0522	0.3804	0.4057	0.0301	0.0730	0.0742	0.1799
8	15.17	14.67	-0.4033	0.0401	-0.1540	-0.0995	0.3818	0.3793	0.0301	0.0734	0.0795	0.1935
9	15.11	13.88	-0.3820	0.0402	-0.1486	-0.1052	0.3890	0.4041	0.0302	0.0630	0.0748	0.1558
10	15.12	13.16	-0.3472	0.0396	-0.1325	-0.1141	0.3816	0.4379	0.0302	0.0578	0.0691	0.1321
11	15.11	12.33	-0.3172	0.0384	-0.1372	-0.1210	0.4325	0.4105	0.0308	0.0596	0.0751	0.1452
12	15.13	11.61	-0.2577	0.0385	-0.1190	-0.1494	0.4620	0.3847	0.0308	0.0570	0.0800	0.1482
13	15.11	10.81	-0.2267	0.0391	-0.1106	-0.1727	0.4880	0.4402	0.0312	0.0464	0.0710	0.1054
14	15.10	10.00	-0.1233	0.0371	-0.0990	-0.3008	0.8028	0.3784	0.0309	0.0509	0.0816	0.1345
15	15.07	9.25	-0.1664	0.0368	-0.0749	-0.2211	0.4504	0.3858	0.0302	0.0444	0.0784	0.1150
16	15.09	8.40	-0.0953	0.0356	-0.0656	-0.3740	0.6889	0.3777	0.0302	0.0428	0.0801	0.1133
17	15.08	7.56	-0.0275	0.0345	-0.0582	-1.2543	2.1150	0.3821	0.0299	0.0398	0.0782	0.1043
18	15.06	6.79	-0.0228	0.0378	-0.0400	-1.6576	1.7543	0.3578	0.0295	0.0395	0.0824	0.1102
19	15.05	6.02	-0.0119	0.0438	-0.0542	-3.6800	4.5517	0.3564	0.0302	0.0388	0.0848	0.1088
20	15.07	5.13	0.0346	0.0442	-0.0273	1.2787	-0.7882	0.3530	0.0298	0.0338	0.0844	0.0956
21	15.05	4.41	0.0960	0.0412	-0.0074	0.4291	-0.0772	0.3153	0.0300	0.0292	0.0951	0.0926
22	15.06	3.57	0.1380	0.0315	0.0112	0.2286	0.0810	0.2808	0.0302	0.0220	0.1077	0.0783
23	15.06	2.85	0.1294	0.0247	0.0136	0.1908	0.1052	0.3041	0.0307	0.0084	0.1011	0.0275
24	15.06	2.01	0.0940	0.0197	0.0038	0.2101	0.0407	0.3455	0.0315	-0.0043	0.0911	-0.0126
25	15.05	1.28	0.0797	0.0059	0.0087	0.0740	0.1086	0.3239	0.0316	-0.0158	0.0975	-0.0489
26	15.05	0.53	0.0055	-0.0004	0.0101	-0.0818	1.8423	0.3330	0.0321	-0.0253	0.0965	-0.0760
27	15.05	-0.23	-0.0407	-0.0055	-0.0005	0.1351	0.0113	0.3515	0.0324	-0.0385	0.0923	-0.1096
28	15.02	-1.04	-0.0302	-0.0227	0.0054	0.7515	-0.1800	0.3007	0.0327	-0.0488	0.1087	-0.1621
29	15.04	-1.77	-0.1162	-0.0303	0.0095	0.2611	-0.0816	0.2865	0.0332	-0.0605	0.1158	-0.2111
30	15.02	-2.63	-0.0630	-0.0406	0.0073	0.6451	-0.1160	0.2691	0.0330	-0.0743	0.1226	-0.2762
31	15.02	-3.46	-0.0409	-0.0506	0.0196	1.2369	-0.4785	0.2523	0.0331	-0.0804	0.1314	-0.3188
32	14.99	-4.24	-0.0611	-0.0526	0.0282	0.8607	-0.4622	0.2314	0.0330	-0.0857	0.1426	-0.3703
33	15.01	-4.97	-0.0532	-0.0516	0.0237	0.9707	-0.4450	0.2384	0.0335	-0.0951	0.1407	-0.3992
34	15.03	-5.76	-0.0140	-0.0447	0.0178	3.1959	-1.2739	0.2184	0.0336	-0.0977	0.1540	-0.4475
35	15.01	-6.55	-0.0411	-0.0372	0.0331	0.9049	-0.8055	0.2365	0.0326	-0.1043	0.1380	-0.4410
36	15.01	-7.41	0.0508	-0.0352	0.0304	-0.6938	0.7663	0.2187	0.0313	-0.1128	0.1431	-0.5159
37	15.06	-8.19	0.0550	-0.0349	0.0585	-0.6344	1.0641	0.2141	0.0295	-0.1225	0.1378	-0.5724
38	15.06	-8.98	0.1512	-0.0388	0.0758	-0.2566	0.5012	0.2227	0.0266	-0.1416	0.1194	-0.6358
39	15.05	-9.75	0.2164	-0.0397	0.1008	-0.1834	0.4658	0.1986	0.0242	-0.1555	0.1218	-0.7831
40	15.05	-10.58	0.2707	-0.0427	0.1213	-0.1577	0.4481	0.1944	0.0220	-0.1686	0.1131	-0.8674
41	15.11	-11.27	0.3152	-0.0407	0.1214	-0.1292	0.3852	0.1850	0.0210	-0.1763	0.1138	-0.9533
42	15.08	-12.11	0.3107	-0.0405	0.1299	-0.1303	0.4182	0.1722	0.0197	-0.1875	0.1147	-1.0890
43	15.13	-12.84	0.3091	-0.0411	0.1454	-0.1329	0.4703	0.1249	0.0185	-0.2030	0.1481	-1.6280
44	15.11	-13.69	0.3896	-0.0433	0.1577	-0.1111	0.4048	0.1251	0.0178	-0.2055	0.1423	-1.6428
45	15.14	-14.50	0.3862	-0.0432	0.1668	-0.1119	0.4318	0.0678	0.0170	-0.2292	0.2514	-3.3807
46	15.12	-15.36	0.4367	-0.0440	0.1832	-0.1008	0.4195	-0.0041	0.0140	-0.2306	-3.4262	56.2601

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	161	0.97	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	MLPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	15.14	-16.09	0.5546	-0.0451	0.1965	-0.0814	0.3543	0.0007	0.0123	-0.2402	17.6397	-343.2380
48	15.13	-16.94	0.5865	-0.0437	0.2030	-0.0745	0.3462	0.0055	0.0130	-0.2576	2.3723	-46.8486
49	15.15	-17.79	0.6454	-0.0414	0.2243	-0.0642	0.3476	0.0550	0.0129	-0.2479	0.2354	-4.5086
50	15.14	-18.66	0.7048	-0.0396	0.2447	-0.0562	0.3473	0.0343	0.0141	-0.2525	0.4110	-7.3636
51	15.17	-19.44	0.7708	-0.0385	0.2474	-0.0500	0.3210	0.0288	0.0136	-0.2534	0.4721	-8.7987
52	15.16	-20.23	0.7949	-0.0409	0.2622	-0.0515	0.3298	-0.0023	0.0141	-0.2644	-6.1511	114.9854

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	161	0.97	1.7	0.0	B2WOF12	0.0	U	U	U	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.20	19.77	-0.8834	-0.0214	-0.3095	0.0242	0.3503	0.3422	-0.0540	0.1512	-0.1579	0.4419
2	15.19	19.40	-0.8439	-0.0225	-0.3214	0.0267	0.3808	0.3088	-0.0527	0.1554	-0.1707	0.5032
3	15.19	18.61	-0.9218	-0.0324	-0.3200	0.0351	0.3471	0.3667	-0.0553	0.1512	-0.1509	0.4123
4	15.19	17.79	-0.9438	-0.0374	-0.3271	0.0396	0.3466	0.4023	-0.0555	0.1589	-0.1379	0.3948
5	15.18	16.98	-1.0889	-0.0370	-0.3814	0.0340	0.3503	0.3745	-0.0537	0.1611	-0.1435	0.4301
6	15.19	16.21	-1.1789	-0.0295	-0.4128	0.0250	0.3502	0.4456	-0.0555	0.1672	-0.1245	0.3752
7	15.16	15.44	-1.1525	-0.0117	-0.4477	0.0102	0.3885	0.3895	-0.0459	0.1782	-0.1178	0.4574
8	15.17	14.67	-1.1560	-0.0066	-0.4416	0.0058	0.3820	0.4596	-0.0429	0.1836	-0.0934	0.3996
9	15.11	13.88	-1.1287	-0.0019	-0.4419	0.0017	0.3915	0.5608	-0.0421	0.1989	-0.0751	0.3546
10	15.12	13.16	-1.0482	-0.0024	-0.4250	0.0023	0.4054	0.5975	-0.0384	0.2062	-0.0643	0.3451
11	15.11	12.33	-0.9748	-0.0023	-0.4490	0.0024	0.4196	0.5550	-0.0373	0.2104	-0.0672	0.3792
12	15.13	11.61	-0.9028	-0.0040	-0.3863	0.0044	0.4279	0.6110	-0.0342	0.2177	-0.0560	0.3563
13	15.11	10.81	-0.8356	-0.0061	-0.3712	0.0073	0.4442	0.6321	-0.0303	0.2249	-0.0480	0.3558
14	15.10	10.00	-0.8148	-0.0063	-0.3442	0.0077	0.4224	0.6840	-0.0261	0.2371	-0.0381	0.3467
15	15.07	9.25	-0.7152	-0.0069	-0.3202	0.0096	0.4477	0.6967	-0.0218	0.2421	-0.0313	0.3476
16	15.09	8.40	-0.6561	-0.0062	-0.2574	0.0095	0.4533	0.7279	-0.0179	0.2482	-0.0247	0.3410
17	15.08	7.56	-0.5730	-0.0062	-0.2842	0.0108	0.4960	0.7915	-0.0135	0.2500	-0.0171	0.3159
18	15.06	6.79	-0.4980	-0.0059	-0.2493	0.0118	0.5007	0.7712	-0.0145	0.2656	-0.0136	0.3444
19	15.05	6.02	-0.4072	-0.0031	-0.2256	0.0077	0.5539	0.7831	-0.0096	0.2616	-0.0123	0.3451
20	15.07	5.13	-0.3188	-0.0023	-0.2005	0.0072	0.6302	0.7908	-0.0064	0.2712	-0.0081	0.3430
21	15.05	4.41	-0.2921	-0.0025	-0.1648	0.0086	0.5642	0.8401	-0.0030	0.2687	-0.0036	0.3198
22	15.06	3.57	-0.2366	-0.0026	-0.1411	0.0112	0.5965	0.8593	-0.0012	0.2819	-0.0015	0.3281
23	15.06	2.85	-0.1464	-0.0028	-0.1137	0.0195	0.7765	0.9421	-0.0005	0.2670	-0.0006	0.3047
24	15.06	2.01	-0.0982	-0.0035	-0.0785	0.0356	0.7996	0.9225	-0.0011	0.3027	-0.0012	0.3281
25	15.05	1.28	-0.0410	-0.0032	-0.0529	0.0793	1.2693	0.9517	-0.0016	0.3186	-0.0017	0.3348
26	15.05	0.53	0.0249	-0.0033	-0.0309	-0.1325	-1.2411	0.9838	-0.0024	0.3254	-0.0024	0.3308
27	15.05	-0.23	0.1032	-0.0039	-0.0082	-0.0378	-0.0796	1.0209	-0.0031	0.3224	-0.0031	0.3158
28	15.02	-1.04	0.1014	-0.0052	0.0365	-0.0513	-0.3598	1.0739	-0.0019	0.3415	-0.0018	0.3180
29	15.04	-1.77	0.1487	-0.0050	0.0665	-0.0340	0.4475	1.0803	-0.0033	0.3459	-0.0031	0.3202
30	15.02	-2.63	0.2368	-0.0042	0.0893	-0.0179	0.3771	1.1203	-0.0044	0.3515	-0.0040	0.3138
31	15.02	-3.46	0.3217	-0.0015	0.1104	-0.0047	0.3432	1.1180	-0.0045	0.3623	-0.0040	0.3241
32	14.99	-4.24	0.3569	-0.0003	0.1471	-0.0008	0.4122	1.1378	-0.0055	0.3674	-0.0048	0.3229
33	15.01	-4.97	0.4325	0.0008	0.1749	0.0020	0.4044	1.1876	-0.0066	0.3657	-0.0056	0.3080
34	15.03	-5.76	0.4878	0.0017	0.2099	0.0035	0.4304	1.1594	-0.0068	0.3712	-0.0059	0.3202
35	15.01	-6.55	0.5866	0.0041	0.2316	0.0070	0.3947	1.1783	-0.0061	0.3708	-0.0052	0.3147
36	15.01	-7.41	0.6591	0.0054	0.2605	0.0082	0.3953	1.1898	-0.0062	0.3732	-0.0053	0.3147
37	15.06	-8.19	0.7584	0.0067	0.2765	0.0089	0.3651	1.1848	-0.0077	0.3794	-0.0065	0.3202
38	15.06	-8.98	0.7913	0.0068	0.3076	0.0087	0.3087	1.1990	-0.0057	0.3865	-0.0048	0.3224
39	15.05	-9.75	0.8555	0.0068	0.3217	0.0080	0.3760	1.2412	-0.0046	0.3785	-0.0037	0.3049
40	15.05	-10.58	0.9262	0.0083	0.3465	0.0090	0.3746	1.2448	-0.0052	0.3821	-0.0042	0.3069
41	15.11	-11.27	0.9930	0.0079	0.3705	0.0080	0.3731	1.2720	-0.0057	0.3811	-0.0045	0.2997
42	15.08	-12.11	1.0665	0.0074	0.3911	0.0069	0.3667	1.2769	-0.0059	0.3861	-0.0046	0.3024
43	15.13	-12.84	1.1192	0.0064	0.4074	0.0057	0.3640	1.2565	-0.0059	0.3955	-0.0047	0.3148
44	15.11	-13.69	1.1813	0.0098	0.4215	0.0083	0.3568	1.2499	-0.0054	0.3934	-0.0043	0.3147
45	15.14	-14.50	1.2209	0.0150	0.4220	0.0123	0.3457	1.2738	-0.0059	0.3969	-0.0046	0.3116
46	15.12	-15.36	1.1949	0.0282	0.4138	0.0236	0.3464	1.2684	-0.0063	0.3952	-0.0050	0.3116

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION		
6	161	0.97	1.7	0.0	BZKOP14	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CM	CB4	XCPF4	YCPF4
47	15.14	-16.09	1.2093	0.0366	0.3951	0.0303	0.3267	1.2970	-0.0053	0.3936	-0.0041	0.3035
48	15.13	-16.94	1.1172	0.0431	0.3525	0.0386	0.3155	1.3136	-0.0054	0.3984	-0.0041	0.3033
49	15.15	-17.79	0.9958	0.0404	0.2984	0.0406	0.2997	1.3241	-0.0039	0.3940	-0.0030	0.2976
50	15.14	-18.66	0.9265	0.0249	0.2865	0.0269	0.3093	1.2867	-0.0030	0.4034	-0.0023	0.3136
51	15.17	-19.44	0.8682	0.0195	0.2772	0.0225	0.3193	1.3138	-0.0026	0.3974	-0.0020	0.3025
52	15.16	-20.23	0.8309	0.0185	0.2837	0.0223	0.3414	1.3250	-0.0023	0.3992	-0.0017	0.3013

PAGE 1 OF 3
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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MALH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	162	0.97	1.7	0.0	B2M0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	18.34	19.68	3.6696	-4.9315	-4.1311	4.5636	-0.2310	-0.0152	-1.3439	
2	18.35	19.63	3.7021	-4.8640	-4.1537	4.6403	-0.2260	-0.0076	-1.3138	
3	18.34	18.79	3.7472	-4.9371	-4.0452	4.5894	-0.1890	-0.0100	-1.3175	
4	18.34	18.00	3.6421	-5.0030	-3.8337	4.5513	-0.1140	-0.0101	-1.3736	
5	18.33	17.12	3.6102	-5.0983	-3.7836	4.8631	-0.0410	-0.0129	-1.4122	
6	18.32	16.32	3.5364	-4.9838	-3.6672	5.3361	0.0600	-0.0232	-1.4085	
7	18.30	15.62	3.4442	-5.0649	-3.5331	5.4523	0.1430	-0.0269	-1.4705	
8	18.30	14.79	3.4402	-4.9883	-3.3759	5.5581	0.1880	-0.0151	-1.4500	
9	18.28	14.01	3.3766	-5.0721	-3.1877	5.5026	0.2360	0.0043	-1.5022	
10	18.27	13.22	3.4371	-5.2078	-2.9361	5.0414	0.2460	0.0178	-1.5152	
11	18.26	12.50	3.5056	-5.6744	-2.7344	4.5111	0.2400	0.0189	-1.6168	
12	18.25	11.67	3.5578	-5.9808	-2.5617	4.1623	0.2500	0.0234	-1.6810	
13	18.23	10.88	3.5520	-6.2337	-2.3297	3.9225	0.2450	0.0464	-1.7550	
14	18.19	10.07	3.5477	-6.4306	-2.1444	3.6727	0.2530	0.0409	-1.8126	
15	18.17	9.28	3.5108	-6.6200	-1.9743	3.3420	0.2560	0.0439	-1.8856	
16	18.13	8.46	3.4436	-6.9888	-1.7474	3.1452	0.2550	0.0604	-2.0292	
17	18.15	7.67	3.4693	-7.1248	-1.5515	2.6730	0.2220	0.0569	-2.0536	
18	18.14	6.88	3.5044	-7.3729	-1.2618	2.1525	0.1960	0.0695	-2.1039	
19	18.14	6.08	3.5509	-7.2400	-1.0369	1.6446	0.1770	0.0517	-2.0389	
20	18.14	5.23	3.5958	-7.5018	-0.8893	1.2480	0.2120	0.0539	-2.0863	
21	18.13	4.38	3.6361	-7.8462	-0.7790	0.8266	0.1990	0.0396	-2.1578	
22	18.10	3.59	3.6826	-8.0863	-0.7660	0.7464	0.1990	0.0408	-2.1958	
23	18.10	2.88	3.6460	-8.2470	-0.6796	0.4535	0.1590	0.0605	-2.2619	
24	18.06	2.06	3.6465	-8.2557	-0.4604	0.5236	0.1210	0.0639	-2.2640	
25	18.06	1.29	3.6508	-8.2957	-0.2910	0.3863	0.0790	0.0673	-2.2723	
26	18.08	0.56	3.7184	-8.2544	-0.1421	0.2039	0.0310	0.0705	-2.2199	
27	18.07	-0.19	3.6738	-8.2929	-0.2394	0.4781	0.0290	0.0754	-2.2573	
28	18.06	-1.06	3.6501	-8.2938	-0.2344	0.6371	0.0130	0.0779	-2.2722	
29	18.06	-1.83	3.6422	-8.2707	-0.0734	0.3467	-0.0300	0.0844	-2.2400	
30	18.06	-2.63	3.6556	-8.2905	0.0799	0.2861	-0.0510	0.0738	-2.2679	
31	18.07	-3.43	3.6134	-8.1214	0.2186	0.0020	-0.0990	0.0766	-2.2476	
32	18.08	-4.30	3.5932	-7.9651	0.3775	-0.3235	-0.1200	0.0906	-2.2167	
33	18.08	-5.04	3.5412	-7.7194	0.5814	-0.7310	-0.1470	0.0807	-2.1799	
34	18.08	-5.81	3.5057	-7.6367	0.7578	-1.1339	-0.1570	0.0877	-2.1783	
35	18.09	-6.63	3.4705	-7.4454	0.9149	-1.5728	-0.1760	0.0878	-2.1453	
36	18.10	-7.45	3.4326	-7.2462	1.1737	-1.9752	-0.2170	0.0959	-2.1110	
37	18.09	-8.20	3.4503	-7.2452	1.4949	-2.5618	-0.2400	0.0867	-2.0998	
38	18.11	-8.99	3.4122	-7.1077	1.6242	-2.9408	-0.2400	0.0733	-2.0831	
39	18.13	-9.80	3.3920	-6.7925	1.7900	-3.2648	-0.2170	0.0595	-2.0025	
40	18.15	-10.55	3.3807	-6.5137	1.9529	-3.4890	-0.2090	0.0516	-1.9268	
41	18.20	-11.37	3.4193	-5.9278	2.1083	-3.8995	-0.2120	0.0678	-1.7337	
42	18.19	-12.12	3.2956	-5.7276	2.2531	-4.4432	-0.1870	0.0575	-1.7380	
43	18.20	-12.96	3.2395	-5.4002	2.5249	-4.9026	-0.2180	0.0621	-1.6670	
44	18.22	-13.74	3.2718	-5.2674	2.7504	-5.2264	-0.2030	0.0489	-1.6099	
45	18.23	-14.60	3.2786	-5.1139	2.9886	-5.5669	-0.1940	0.0259	-1.5598	
46	18.23	-15.41	3.3019	-5.1915	3.1028	-5.5737	-0.1330	0.0270	-1.5723	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	162	0.97	1.7	0.0	0.2M0F12	0.0	0	0	0	0	FIXED

PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP
47	10.23	-10.25	3.3924	-5.1492	3.2434	-5.3756	-0.0630	0.0148	-1.5179
48	10.25	-10.99	3.5607	-5.4510	3.3165	-4.7360	0.0920	0.0474	-1.5309
49	10.27	-17.85	3.0904	-5.4675	3.4788	-4.6614	0.1630	0.0703	-1.4816
50	10.31	-10.60	3.7794	-5.1442	3.7002	-4.4974	0.2220	0.0777	-1.3611
51	10.31	-19.49	3.8252	-5.2393	3.8659	-4.1644	0.3210	0.0934	-1.3697
52	10.31	-20.27	3.9036	-5.1961	4.0829	-4.1962	0.3670	0.1010	-1.3311

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	162	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	KCPF1	YCPF1	CNF2	CH2	CB2	KCPF2	YCPF2
1	18.34	19.68	-0.6098	0.0552	-0.2294	-0.0905	0.3762	0.6065	0.0425	0.0345	0.0701	0.0569
2	18.35	19.63	-0.6122	0.0553	-0.2274	-0.0903	0.3714	0.6091	0.0423	0.0381	0.0695	0.0625
3	18.34	18.79	-0.5923	0.0559	-0.2235	-0.0943	0.3779	0.5700	0.0435	0.0270	0.0764	0.0473
4	18.34	18.00	-0.5186	0.0546	-0.2050	-0.1052	0.3953	0.5710	0.0428	0.0310	0.0749	0.0543
5	18.33	17.12	-0.4808	0.0544	-0.2074	-0.1131	0.4314	0.5622	0.0440	0.0203	0.0782	0.0360
6	18.32	16.32	-0.4183	0.0547	-0.1916	-0.1307	0.4580	0.4819	0.0446	0.0256	0.0925	0.0531
7	18.30	15.62	-0.3782	0.0540	-0.1678	-0.1427	0.4437	0.5478	0.0443	0.0068	0.0809	0.0124
8	18.30	14.79	-0.3490	0.0522	-0.1520	-0.1495	0.4355	0.5470	0.0447	0.0065	0.0817	0.0119
9	18.28	14.01	-0.2950	0.0515	-0.1486	-0.1747	0.5037	0.5022	0.0448	-0.0002	0.0893	-0.0005
10	18.27	13.22	-0.3135	0.0527	-0.1299	-0.1680	0.4142	0.4810	0.0452	-0.0110	0.0939	-0.0228
11	18.26	12.50	-0.1939	0.0433	-0.1068	-0.2233	0.5509	0.5605	0.0437	0.0028	0.0779	0.0050
12	18.25	11.67	-0.1552	0.0393	-0.0779	-0.2535	0.5020	0.5870	0.0417	0.0157	0.0710	0.0268
13	18.23	10.88	-0.1068	0.0416	-0.0781	-0.3894	0.7312	0.5905	0.0410	0.0200	0.0695	0.0339
14	18.19	10.07	-0.0816	0.0350	-0.0592	-0.4779	0.7254	0.5845	0.0414	0.0204	0.0709	0.0349
15	18.17	9.28	-0.0185	0.0345	-0.0469	-1.8645	2.5332	0.5740	0.0409	0.0198	0.0713	0.0345
16	18.13	8.46	-0.0335	0.0480	-0.0517	-1.4326	1.5422	0.5615	0.0409	0.0134	0.0729	0.0239
17	18.15	7.67	-0.0148	0.0547	-0.0476	-3.6987	3.2184	0.5045	0.0415	0.0115	0.0822	0.0229
18	18.14	6.88	0.0090	0.0580	-0.0543	6.4489	-6.0335	0.5452	0.0420	-0.0020	0.0770	-0.0037
19	18.14	6.08	0.0030	0.0501	-0.0497	16.6970	-16.5668	0.4861	0.0430	-0.0111	0.0884	-0.0228
20	18.14	5.23	0.1056	0.0447	0.0088	0.4232	0.0832	0.5180	0.0416	0.0001	0.0803	0.0003
21	18.13	4.38	0.1692	0.0327	0.0343	0.1935	0.2026	0.5255	0.0396	0.0152	0.0750	0.0290
22	18.10	3.59	0.1778	0.0167	0.0567	0.0942	0.1192	0.5290	0.0352	0.0224	0.0666	0.0423
23	18.10	2.88	0.1330	0.0102	0.0487	0.0771	0.3663	0.5019	0.0330	0.0253	0.0658	0.0503
24	18.06	2.06	0.1314	0.0204	0.0259	0.1552	0.1970	0.5150	0.0340	0.0182	0.0661	0.0354
25	18.06	1.29	0.0881	0.0130	0.0149	0.1481	0.1686	0.5106	0.0342	0.0111	0.0670	0.0217
26	18.08	0.56	0.0363	0.0147	-0.0036	0.4663	-0.0993	0.4627	0.0352	0.0139	0.0762	0.0301
27	18.07	-0.19	-0.0499	-0.0095	0.0018	0.1903	-0.0355	0.4532	0.0341	-0.0057	0.0752	-0.0125
28	18.06	-1.06	-0.0784	-0.0304	-0.0006	0.3883	0.0080	0.4551	0.0325	-0.0185	0.0714	-0.0407
29	18.06	-1.83	-0.1030	-0.0338	-0.0141	0.3281	0.1371	0.4597	0.0326	-0.0309	0.0709	-0.0672
30	18.06	-2.63	-0.1452	-0.0430	-0.0105	0.2564	0.0722	0.4476	0.0321	-0.0362	0.0717	-0.0809
31	18.07	-3.43	-0.1997	-0.0456	-0.0198	0.2286	0.0994	0.4422	0.0321	-0.0457	0.0727	-0.1034
32	18.08	-4.30	-0.1518	-0.0615	0.0077	0.4051	-0.0508	0.4173	0.0311	-0.0541	0.0745	-0.1297
33	18.08	-5.04	-0.0999	-0.0619	0.0077	0.6195	-0.0772	0.4217	0.0306	-0.0647	0.0727	-0.1535
34	18.08	-5.81	-0.0444	-0.0611	0.0193	0.6477	-0.2049	0.3957	0.0301	-0.0716	0.0760	-0.1809
35	18.09	-6.63	-0.0395	-0.0586	0.0257	1.4845	-0.6516	0.3513	0.0293	-0.0767	0.0835	-0.2183
36	18.10	-7.45	-0.0327	-0.0540	0.0328	1.6526	-1.0032	0.3440	0.0293	-0.0816	0.0851	-0.2373
37	18.09	-8.20	-0.0488	-0.0465	0.0268	0.9527	-0.9500	0.3706	0.0295	-0.0891	0.0797	-0.2403
38	18.11	-8.99	0.0268	-0.0480	0.0350	-1.7926	1.3071	0.3407	0.0281	-0.0951	0.0826	-0.2792
39	18.13	-9.80	0.0992	-0.0479	0.0645	-0.4828	0.6508	0.3126	0.0298	-0.1128	0.0825	-0.3607
40	18.15	-10.55	0.1349	-0.0447	0.0725	-0.3313	0.5378	0.3105	0.0243	-0.1235	0.0784	-0.3976
41	18.20	-11.37	0.1786	-0.0536	0.1095	-0.3003	0.6154	0.2498	0.0214	-0.1456	0.0857	-0.5831
42	18.19	-12.12	0.3023	-0.0611	0.1310	-0.2020	0.4354	0.2113	0.0202	-0.1556	0.0956	-0.7364
43	18.20	-12.96	0.3146	-0.0615	0.1456	-0.1955	0.4629	0.2582	0.0188	-0.1747	0.0730	-0.6769
44	18.22	-13.74	0.3591	-0.0611	0.1606	-0.1701	0.4471	0.2272	0.0183	-0.1815	0.0808	-0.7988
45	18.23	-14.60	0.3918	-0.0611	0.1639	-0.1560	0.4182	0.2003	0.0175	-0.1947	0.0874	-0.9723
46	18.23	-15.41	0.4277	-0.0604	0.1735	-0.1412	0.4057	0.2076	0.0139	-0.1994	0.0669	-0.9606

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.62	0.97	1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2	
47	18.23	-16.25	0.4576	-0.0607	0.1862	-0.1326	0.4068	0.1750	0.0116	-0.2157	0.0663	-1.2331	
48	18.25	-16.99	0.4740	-0.0590	0.1427	-0.1245	0.3855	0.1823	0.0119	-0.2155	0.0655	-1.1824	
49	18.27	-17.85	0.5281	-0.0630	0.1990	-0.1193	0.3768	0.1593	0.0121	-0.2248	0.0759	-1.4113	
50	18.31	-18.08	0.5295	-0.0661	0.2084	-0.1249	0.3936	0.0831	0.0122	-0.2376	0.1468	-2.8593	
51	18.31	-19.49	0.5693	-0.0685	0.2158	-0.1204	0.3791	0.0446	0.0132	-0.2462	0.2959	-5.5210	
52	18.31	-20.27	0.5992	-0.0676	0.2320	-0.1128	0.3871	0.0309	0.0136	-0.2568	0.4417	-8.3108	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	162	0.97	1.7	0.0	82WOF12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	18.34	19.68	-0.8931	-0.0157	-0.3289	0.0176	0.3683	0.4288	-0.0524	0.1809	-0.1222	0.4218
2	18.35	19.63	-0.8797	-0.0162	-0.3412	0.0185	0.3879	0.4313	-0.0513	0.1752	-0.1190	0.4062
3	18.34	18.79	-0.9204	-0.0182	-0.3376	0.0198	0.3668	0.4263	-0.0515	0.1856	-0.1209	0.4355
4	18.34	18.00	-0.9942	-0.0361	-0.3364	0.0363	0.3383	0.4951	-0.0550	0.1869	-0.1111	0.3774
5	18.33	17.12	-1.0873	-0.0403	-0.3711	0.0371	0.3413	0.5136	-0.0559	0.2020	-0.1088	0.3934
6	18.32	16.32	-1.1869	-0.0306	-0.4204	0.0258	0.3542	0.5008	-0.0540	0.1947	-0.1079	0.3887
7	18.30	15.62	-1.1767	-0.0228	-0.4366	0.0194	0.3710	0.5582	-0.0556	0.2007	-0.0997	0.3595
8	18.30	14.79	-1.2000	0.0029	-0.4820	-0.0025	0.4017	0.5323	-0.0431	0.2043	-0.0809	0.3837
9	18.28	14.01	-1.1393	0.0014	-0.4726	-0.0012	0.4148	0.5898	-0.0430	0.2176	-0.0729	0.3650
10	18.27	13.22	-1.0838	0.0006	-0.4526	-0.0006	0.4176	0.6150	-0.0405	0.2230	-0.0658	0.3626
11	18.26	12.50	-1.0297	-0.0015	-0.4282	0.0015	0.4158	0.6563	-0.0378	0.2320	-0.0577	0.3535
12	18.25	11.87	-0.9749	-0.0042	-0.4109	0.0043	0.4215	0.7191	-0.0351	0.2432	-0.0492	0.3406
13	18.23	10.88	-0.8865	-0.0058	-0.3936	0.0065	0.4440	0.7542	-0.0315	0.2522	-0.0418	0.3344
14	18.19	10.07	-0.8109	-0.0072	-0.3668	0.0089	0.4523	0.7684	-0.0271	0.2740	-0.0353	0.3566
15	18.17	9.28	-0.7591	-0.0083	-0.3460	0.0110	0.4558	0.8192	-0.0221	0.2772	-0.0270	0.3383
16	18.13	8.46	-0.6761	-0.0075	-0.3221	0.0112	0.4764	0.8585	-0.0170	0.2791	-0.0198	0.3251
17	18.15	7.67	-0.6128	-0.0071	-0.2990	0.0116	0.4879	0.8548	-0.0148	0.2905	-0.0174	0.3399
18	18.14	6.88	-0.5309	-0.0074	-0.2612	0.0139	0.4920	0.8898	-0.0152	0.2932	-0.0171	0.3295
19	18.14	6.08	-0.4374	-0.0077	-0.2434	0.0177	0.5505	0.9210	-0.0150	0.2862	-0.0163	0.3107
20	18.14	5.23	-0.3683	-0.0104	-0.2075	0.0282	0.5634	0.9561	-0.0086	0.3085	-0.0090	0.3227
21	18.13	4.38	-0.3095	-0.0096	-0.1773	0.0312	0.5729	0.9774	-0.0060	0.3163	-0.0061	0.3236
22	18.10	3.59	-0.2511	-0.0107	-0.1486	0.0426	0.5921	1.0757	-0.0016	0.3233	-0.0015	0.3006
23	18.10	2.88	-0.1959	-0.0083	-0.1205	0.0424	0.6150	1.0809	-0.0008	0.3402	-0.0008	0.3147
24	18.06	2.06	-0.1258	-0.0065	-0.0907	0.0521	0.7211	1.1163	-0.0003	0.3365	-0.0003	0.3014
25	18.06	1.29	-0.0537	-0.0044	-0.0648	0.0829	1.2066	1.1285	-0.0012	0.3446	-0.0011	0.3054
26	18.08	0.56	0.0223	-0.0034	-0.0396	-0.1524	-1.7744	1.1384	-0.0024	0.3478	-0.0022	0.3055
27	18.07	-0.19	0.0357	-0.0046	-0.0039	-0.1288	-0.1094	1.2107	0.0005	0.3602	0.0004	0.2975
28	18.06	-1.06	0.1159	-0.0043	0.0172	-0.0371	0.1486	1.2454	0.0021	0.3645	0.0041	0.2927
29	18.06	-1.83	0.1210	-0.0035	0.0507	-0.0289	0.4192	1.2349	0.0078	0.3653	0.0063	0.2958
30	18.06	-2.63	0.1936	-0.0006	0.0744	-0.0034	0.3844	1.2383	0.0108	0.3692	0.0087	0.2982
31	18.07	-3.43	0.2727	0.0012	0.1183	0.0046	0.3974	1.2462	0.0124	0.3692	0.0099	0.2958
32	18.08	-4.30	0.3554	0.0036	0.1346	0.0103	0.3788	1.1776	0.0233	0.3521	0.0173	0.2990
33	18.08	-5.04	0.4338	0.0048	0.1597	0.0112	0.3680	1.2077	0.0195	0.3395	0.0161	0.2811
34	18.08	-5.81	0.5292	0.0056	0.1897	0.0107	0.3585	1.2012	0.0205	0.3424	0.0171	0.2850
35	18.09	-6.63	0.5233	0.0057	0.2371	0.0110	0.4530	1.1797	0.0219	0.3383	0.0186	0.2868
36	18.10	-7.45	0.6440	0.0059	0.2576	0.0092	0.4000	1.1711	0.0238	0.3307	0.0203	0.2824
37	18.09	-8.20	0.7333	0.0077	0.2832	0.0106	0.3863	1.2110	0.0204	0.3512	0.0169	0.2900
38	18.11	-8.99	0.7668	0.0091	0.3098	0.0116	0.3937	1.2118	0.0208	0.3623	0.0172	0.2990
39	18.13	-9.80	0.8532	0.0094	0.3322	0.0110	0.3893	1.1978	0.0232	0.3504	0.0194	0.2926
40	18.15	-10.55	0.9650	0.0096	0.3454	0.0099	0.3579	1.2153	0.0240	0.3428	0.0198	0.2820
41	18.20	-11.37	0.9978	0.0087	0.3718	0.0088	0.3726	1.1232	0.0297	0.3091	0.0264	0.2752
42	18.19	-12.12	1.0857	0.0081	0.3873	0.0075	0.3567	1.1226	0.0296	0.3119	0.0264	0.2778
43	18.20	-12.96	1.1474	0.0075	0.4131	0.0066	0.3601	1.0754	0.0299	0.3047	0.0278	0.2834
44	18.22	-13.74	1.2158	0.0068	0.4314	0.0056	0.3548	1.0984	0.0315	0.3038	0.0287	0.2766
45	18.23	-14.60	1.2543	0.0070	0.4476	0.0056	0.3569	1.1604	0.0310	0.2966	0.0267	0.2556
46	18.23	-15.41	1.2798	0.0226	0.4232	0.0177	0.3307	1.1470	0.0303	0.3284	0.0264	0.2863

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	162	0.97	1.7									
	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	18.23	-16.25	1.2572	0.0342	0.4116	0.0272	0.3274	1.2072	0.0298	0.3245	0.0247	0.2688	
48	18.25	-16.99	1.1108	0.0414	0.3376	0.0373	0.3040	1.3100	0.0251	0.3741	0.0192	0.2856	
49	18.27	-17.85	1.0533	0.0401	0.3345	0.0381	0.3179	1.3604	0.0249	0.3796	0.0183	0.2790	
50	18.31	-18.68	1.0690	0.0316	0.3248	0.0296	0.3038	1.3505	0.0234	0.3899	0.0173	0.2887	
51	18.31	-19.49	0.9409	0.0182	0.3091	0.0193	0.3285	1.3959	0.0179	0.4059	0.0128	0.2907	
52	18.31	-20.27	0.9348	0.0171	0.3098	0.0183	0.3314	1.4094	0.0157	0.4055	0.0112	0.2877	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	163	0.97	1.7	0.0	B2WOF12	O.C	0	0	0	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLM	CLL	CAF	ACP		
1	21.46	19.27	4.2879	-4.4293	-4.1128	4.0541	0.0430	-0.0526	-1.0330		
2	21.45	18.97	4.3050	-4.5762	-4.2075	4.1418	0.0490	-0.0640	-1.0630		
3	21.47	18.15	4.2629	-4.4373	-4.1128	4.3221	0.1120	-0.0531	-1.0409		
4	21.46	17.39	4.1993	-4.3172	-4.1378	4.4960	0.1380	-0.0577	-1.0281		
5	21.44	16.54	4.0938	-4.2075	-3.9697	4.9836	0.2810	-0.0393	-1.0278		
6	21.43	15.77	4.0635	-4.3090	-3.8747	5.2206	0.3490	-0.0404	-1.0604		
7	21.44	14.99	4.0539	-4.3226	-3.6587	5.3512	0.4079	-0.0274	-1.0663		
8	21.39	14.23	3.9429	-4.5042	-3.5588	5.5663	0.4399	-0.0241	-1.1424		
9	21.40	13.40	3.9847	-4.8007	-3.3002	5.2352	0.4389	-0.0129	-1.2048		
10	21.34	12.63	3.8977	-5.0698	-3.0996	5.0893	0.4519	-0.0025	-1.3007		
11	21.34	11.87	3.8910	-5.1744	-2.7934	4.5477	0.4359	0.0053	-1.3298		
12	21.33	11.09	3.9688	-5.3883	-2.5686	4.1549	0.4519	0.0331	-1.3577		
13	21.31	10.30	3.9709	-5.6872	-2.4312	4.0256	0.4639	0.0434	-1.4322		
14	21.30	9.44	3.9144	-5.7431	-2.1711	3.4775	0.4679	0.0503	-1.4672		
15	21.28	8.65	3.9618	-6.0964	-1.8916	3.0321	0.4489	0.0673	-1.5368		
16	21.27	7.80	4.0466	-6.6851	-1.6851	2.5471	0.4289	0.0551	-1.6520		
17	21.27	7.00	4.1606	-6.7787	-1.4685	2.0699	0.4099	0.0730	-1.6293		
18	21.27	6.21	4.0844	-6.8800	-1.2308	1.8392	0.3989	0.0735	-1.6845		
19	21.26	5.36	4.2667	-7.3653	-1.1338	1.4263	0.3929	0.0310	-1.7262		
20	21.23	4.54	4.1943	-7.5307	-0.9324	1.0244	0.3810	0.0287	-1.7955		
21	21.18	3.74	4.1629	-7.9957	-0.9167	1.1414	0.3130	0.0218	-1.9207		
22	21.16	2.96	4.1946	-8.3170	-0.6113	0.7389	0.2780	0.0147	-1.9828		
23	21.16	2.17	4.1600	-8.2336	-0.4471	0.4600	0.2330	0.0151	-1.9793		
24	21.15	1.39	4.1794	-8.4158	-0.1940	0.1586	0.1750	0.0203	-2.0136		
25	21.13	0.66	4.3385	-8.9901	-0.1667	0.2633	0.1010	0.0028	-2.0720		
26	21.18	-0.12	4.4900	-9.0437	-0.1228	0.4229	-0.0280	-0.0075	-2.0142		
27	21.14	-0.95	4.3382	-9.0471	-0.0836	0.2462	-0.0800	0.0006	-2.0854		
28	21.15	-1.77	4.3053	-8.7711	0.0447	0.0464	-0.1460	0.0253	-2.0373		
29	21.17	-2.56	4.2386	-8.5928	0.1919	0.0643	-0.2030	0.0310	-2.0272		
30	21.16	-3.42	4.1387	-8.1108	0.3495	-0.2898	-0.2810	0.0565	-1.9598		
31	21.19	-4.22	4.0632	-7.5192	0.5115	-0.4822	-0.3300	0.0756	-1.8506		
32	21.21	-5.03	3.9915	-7.2088	0.7131	-1.0293	-0.3550	0.0849	-1.8261		
33	21.21	-5.72	3.9599	-7.1246	0.9550	-1.3490	-0.4019	0.0658	-1.7992		
34	21.21	-6.59	3.9519	-7.0094	1.0522	-1.5660	-0.4139	0.0438	-1.7737		
35	21.23	-7.39	3.9655	-6.7735	1.1846	-1.8865	-0.4019	0.1094	-1.7081		
36	21.24	-8.16	4.0228	-6.6777	1.4705	-2.2662	-0.4249	0.0933	-1.6600		
37	21.23	-8.98	3.9403	-6.2443	1.6332	-2.6734	-0.4069	0.1016	-1.5847		
38	21.27	-9.77	4.0134	-6.2006	1.8370	-2.9167	-0.4149	0.0867	-1.5450		
39	21.27	-10.58	3.9488	-5.9552	2.0742	-3.3269	-0.3999	0.0625	-1.5081		
40	21.31	-11.35	4.0090	-5.7195	2.2420	-3.5578	-0.3919	0.0645	-1.4267		
41	21.33	-12.15	3.9756	-5.3358	2.5238	-4.0912	-0.3989	0.0529	-1.3422		
42	21.34	-12.89	4.0149	-5.1509	2.7863	-4.3214	-0.3899	0.0411	-1.2829		
43	21.33	-13.70	3.9757	-5.0050	2.8882	-4.6444	-0.3720	0.0312	-1.2589		
44	21.37	-14.56	3.9601	-4.6662	3.2524	-4.9873	-0.3690	0.0154	-1.1783		
45	21.40	-15.42	4.0423	-4.4693	3.4581	-5.2094	-0.3470	0.0138	-1.1056		
46	21.38	-16.21	4.0415	-4.5212	3.5428	-4.9020	-0.2890	0.0090	-1.1187		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	163	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	21.40	-17.03	4.1022	-4.3402	3.6320	-4.7839	-0.2110	-0.0050	-1.0580		
48	21.45	-17.87	4.1769	-4.2358	3.8244	-4.6093	-0.1560	0.0077	-1.0141		
49	21.48	-18.74	4.2926	-4.1009	3.9314	-4.0601	-0.0360	0.0029	-0.9553		
50	21.46	-19.54	4.2124	-3.9147	4.1254	-4.0517	0.0470	-0.0086	-0.9293		
51	21.48	-20.18	4.2973	-4.0575	4.3215	-4.0764	0.1000	-0.0092	-0.9442		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.7	1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	GM1	L81	XCPF1	YCPF1	CNF2	GM2	CB2	XCPF2	YCPF2
1	21.46	19.27	-0.4803	0.0580	-0.1942	-0.1208	0.4044	0.6084	0.0329	0.0245	0.0541	0.0402
2	21.45	19.97	-0.4869	0.0576	-0.2006	-0.1183	0.4121	0.6252	0.0329	0.0283	0.0526	0.0452
3	21.47	18.15	-0.4030	0.0580	-0.1848	-0.1439	0.4585	0.5990	0.0331	0.0189	0.0552	0.0316
4	21.46	17.39	-0.4410	0.0566	-0.1692	-0.1284	0.3835	0.5891	0.0337	0.0125	0.0573	0.0213
5	21.44	16.54	-0.3678	0.0538	-0.1624	-0.1463	0.4414	0.4633	0.0299	-0.0404	0.0645	-0.0872
6	21.43	15.77	-0.3572	0.0517	-0.1542	-0.1447	0.4317	0.3854	0.0293	-0.0425	0.0761	-0.1104
7	21.44	14.99	-0.3221	0.0511	-0.1395	-0.1586	0.4332	0.3571	0.0294	-0.0476	0.0823	-0.1332
8	21.39	14.23	-0.3295	0.0471	-0.1238	-0.1430	0.3757	0.3454	0.0296	-0.0460	0.0857	-0.1331
9	21.40	13.40	-0.2358	0.0455	-0.1170	-0.1929	0.4961	0.3405	0.0299	-0.0428	0.0878	-0.1257
10	21.34	12.63	-0.2457	0.0449	-0.1149	-0.1829	0.4679	0.3082	0.0301	-0.0456	0.0976	-0.1478
11	21.34	11.87	-0.2509	0.0424	-0.1101	-0.1690	0.4388	0.2829	0.0299	-0.0443	0.1058	-0.1565
12	21.33	11.09	-0.1753	0.0381	-0.0899	-0.2176	0.5129	0.2882	0.0304	-0.0530	0.1054	-0.1840
13	21.31	10.30	-0.1401	0.0314	-0.0651	-0.2241	0.4645	0.2929	0.0307	-0.0482	0.1049	-0.1644
14	21.30	9.44	-0.0826	0.0305	-0.0586	-0.3698	0.7097	0.2781	0.0305	-0.0545	0.1098	-0.1959
15	21.28	8.65	-0.0276	0.0297	-0.0404	-1.0759	1.6636	0.3122	0.0311	-0.0556	0.0997	-0.1782
16	21.27	7.80	0.0224	0.0290	-0.0149	1.2966	-0.6668	0.4348	0.0331	-0.0422	0.0761	-0.0970
17	21.27	7.00	0.0962	0.0286	-0.0022	0.2978	-0.0233	0.4497	0.0351	-0.0296	0.0781	-0.0659
18	21.27	6.21	0.0787	0.0269	0.0116	0.3617	0.1477	0.4031	0.0333	-0.0410	0.0826	-0.1018
19	21.26	5.36	0.1342	0.0052	0.0498	0.0391	0.3712	0.4325	0.0351	-0.0214	0.0812	-0.0496
20	21.23	4.54	0.1874	0.0036	0.0572	0.0195	0.3055	0.4353	0.0353	-0.0120	0.0811	-0.0276
21	21.18	3.74	0.1197	0.0266	0.0286	0.2222	0.2388	0.4223	0.0355	-0.0204	0.0841	-0.0484
22	21.18	2.96	0.1445	0.0202	0.0487	0.1398	0.3374	0.4894	0.0354	0.0030	0.0724	0.0061
23	21.16	2.17	0.0967	0.0383	0.0097	0.3960	0.1005	0.4363	0.0358	-0.0176	0.0820	-0.0403
24	21.15	1.39	0.1065	0.0339	-0.0098	0.3187	-0.0921	0.4662	0.0360	0.0009	0.0772	0.0019
25	21.13	0.66	0.0550	0.0195	-0.0007	0.3554	-0.0122	0.5173	0.0358	0.0266	0.0693	0.0514
26	21.18	-0.12	-0.0395	-0.0024	-0.0078	0.0620	0.1965	0.5706	0.0298	0.0589	0.0522	0.1031
27	21.14	-0.95	-0.0496	-0.0184	-0.0157	0.1847	0.1575	0.4936	0.0282	0.0689	0.0571	0.1396
28	21.15	-1.77	-0.1235	-0.0240	-0.0283	0.1947	0.2296	0.4276	0.0275	0.0719	0.0644	0.1681
29	21.17	-2.56	-0.2022	-0.0274	-0.0391	0.1357	0.1933	0.3979	0.0271	0.0674	0.0682	0.1694
30	21.16	-3.42	-0.1947	-0.0339	-0.0450	0.1743	0.2310	0.4078	0.0261	0.0535	0.0641	0.1312
31	21.19	-4.22	-0.1945	-0.0404	-0.0328	0.2077	0.1687	0.3630	0.0254	0.0481	0.0699	0.1324
32	21.21	-5.03	-0.1291	-0.0489	-0.0178	0.3787	0.1380	0.3420	0.0242	0.0356	0.0709	0.1040
33	21.21	-5.72	-0.1869	-0.0419	-0.0165	0.2244	0.0882	0.3433	0.0238	0.0254	0.0694	0.0740
34	21.21	-6.59	-0.1356	-0.0405	-0.0132	0.2990	0.0972	0.3157	0.0225	0.0184	0.0714	0.0584
35	21.23	-7.39	-0.0565	-0.0376	-0.0030	0.6654	0.0536	0.3108	0.0210	0.0058	0.0675	0.0186
36	21.24	-8.16	-0.0659	-0.0316	-0.0051	0.4794	0.0768	0.2624	0.0201	0.0074	0.0768	0.0283
37	21.23	-8.98	-0.0031	-0.0345	0.0281	1.1432	-9.0539	0.2773	0.0187	-0.0189	0.0676	-0.0680
38	21.27	-9.77	0.0357	-0.0300	0.0168	-0.8402	0.4705	0.2569	0.0181	-0.0233	0.0706	-0.0907
39	21.27	-10.58	0.0680	-0.0318	0.0349	-0.4683	0.5126	0.2092	0.0170	-0.0326	0.0815	-0.1558
40	21.31	-11.35	0.1111	-0.0357	0.0532	-0.3213	0.4790	0.1493	0.0157	-0.0457	0.1051	-0.3064
41	21.33	-12.15	0.1805	-0.0384	0.0627	-0.2127	0.3476	0.2061	0.0145	-0.0712	0.0703	-0.3456
42	21.34	-12.89	0.1660	-0.0413	0.0832	-0.2491	0.5013	0.2209	0.0139	-0.0918	0.0629	-0.4155
43	21.33	-13.70	0.2173	-0.0448	0.0963	-0.2064	0.4432	0.1777	0.0128	-0.1059	0.0723	-0.5959
44	21.37	-14.56	0.2485	-0.0469	0.1057	-0.1889	0.4254	0.1472	0.0122	-0.1153	0.0829	-0.7836
45	21.40	-15.42	0.2760	-0.0515	0.1329	-0.1867	0.4813	0.1208	0.0118	-0.1322	0.0977	-1.0948
46	21.38	-16.21	0.3517	-0.0540	0.1397	-0.1535	0.3972	0.1060	0.0086	-0.1281	0.0811	-1.2083

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		163	0.97	1.7		0.0	BZKQF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	21.40	-17.03	0.4004	-0.0577	0.1576	-0.1440	0.3936	0.0770	0.0088	-0.1397	0.1149	-1.8148	
48	21.45	-17.87	0.4151	-0.0585	0.1684	-0.1410	0.4057	0.0936	0.0086	-0.1526	0.0924	-1.6305	
49	21.48	-18.74	0.4532	-0.0618	0.1858	-0.1364	0.4100	0.0278	0.0086	-0.1555	0.3111	-5.5948	
50	21.46	-19.54	0.5052	-0.0645	0.1958	-0.1276	0.3876	0.0280	0.0091	-0.1694	0.3267	-6.0525	
51	21.48	-20.18	0.5550	-0.0658	0.2041	-0.1185	0.3678	0.0352	0.0089	-0.1772	0.2542	-5.0361	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	163	0.97	1.7	0.0	82WOF12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	21.46	19.27	-1.0106	-0.0343	-0.3649	0.0340	0.3611	0.5727	-0.0575	0.2120	-0.1004	0.3702
2	21.45	18.97	-1.0309	-0.0351	-0.3576	0.0340	0.3469	0.5983	-0.0571	0.2192	-0.0954	0.3663
3	21.47	18.15	-1.0752	-0.0378	-0.3701	0.0351	0.3442	0.5759	-0.0588	0.2113	-0.1022	0.3669
4	21.46	17.39	-1.1035	-0.0394	-0.3816	0.0357	0.3458	0.5480	-0.0590	0.2232	-0.1077	0.4073
5	21.44	16.54	-1.1466	-0.0295	-0.4334	0.0246	0.3622	0.5830	-0.0573	0.2220	-0.0983	0.3807
6	21.43	15.77	-1.2279	-0.0251	-0.4465	0.0205	0.3637	0.6561	-0.0603	0.2350	-0.0919	0.3582
7	21.44	14.99	-1.2514	0.0009	-0.4862	-0.0008	0.3865	0.6606	-0.0493	0.2259	-0.0747	0.3420
8	21.39	14.23	-1.2039	0.0019	-0.4814	-0.0016	0.3999	0.6991	-0.0437	0.2483	-0.0626	0.3552
9	21.40	13.40	-1.1737	0.0004	-0.4588	-0.0003	0.3909	0.7574	-0.0417	0.2549	-0.0550	0.3365
10	21.34	12.63	-1.0668	-0.0029	-0.4472	0.0027	0.4192	0.7856	-0.0374	0.2692	-0.0477	0.3426
11	21.34	11.87	-1.0265	-0.0053	-0.4185	0.0052	0.4077	0.8280	-0.0324	0.2768	-0.0391	0.3343
12	21.33	11.09	-0.9569	-0.0063	-0.3937	0.0066	0.4115	0.8853	-0.0322	0.2788	-0.0364	0.3149
13	21.31	10.30	-0.8623	-0.0081	-0.3849	0.0094	0.4464	0.9263	-0.0295	0.2915	-0.0318	0.3147
14	21.30	9.44	-0.7909	-0.0081	-0.3546	0.0103	0.4484	0.9055	-0.0274	0.3016	-0.0302	0.3331
15	21.28	8.65	-0.7101	-0.0097	-0.3289	0.0137	0.4632	0.9404	-0.0247	0.3091	-0.0263	0.3286
16	21.27	7.80	-0.6473	-0.0117	-0.3024	0.0181	0.4671	1.0021	-0.0216	0.3161	-0.0216	0.3155
17	21.27	7.00	-0.5750	-0.0133	-0.2745	0.0231	0.4774	1.0056	-0.0173	0.3277	-0.0172	0.3259
18	21.27	6.21	-0.4478	-0.0129	-0.2508	0.0289	0.5601	1.0372	-0.0153	0.3257	-0.0147	0.3140
19	21.26	5.36	-0.3957	-0.0138	-0.2214	0.0349	0.5796	1.0980	-0.0128	0.3397	-0.0117	0.3094
20	21.23	4.54	-0.3271	-0.0140	-0.1856	0.0429	0.5673	1.1069	-0.0078	0.3523	-0.0070	0.3183
21	21.18	3.74	-0.2180	-0.0126	-0.1643	0.0578	0.7539	1.1518	-0.0045	0.3525	-0.0039	0.3060
22	21.18	2.96	-0.1957	-0.0099	-0.1245	0.0506	0.6362	1.2119	-0.0019	0.3575	-0.0016	0.2950
23	21.16	2.17	-0.1325	-0.0085	-0.0915	0.0645	0.6910	1.1891	-0.0026	0.3619	-0.0022	0.3044
24	21.15	1.39	-0.0334	-0.0055	-0.0700	0.1661	2.0967	1.2418	-0.0015	0.3613	-0.0012	0.2909
25	21.13	0.66	-0.0375	-0.0042	-0.0334	0.1120	0.8905	1.2940	0.0013	0.3779	0.0010	0.2920
26	21.18	-0.12	0.0741	-0.0050	-0.0177	-0.0681	-0.2390	1.2545	0.0165	0.3611	0.0132	0.2879
27	21.14	-0.95	0.1161	-0.0042	0.0172	-0.0362	0.1480	1.1787	0.0192	0.3606	0.0163	0.3059
28	21.15	-1.77	0.1572	-0.0020	0.0466	-0.0127	0.2963	1.2276	0.0208	0.3348	0.0170	0.2727
29	21.17	-2.56	0.2136	0.0005	0.0734	0.0023	0.3435	1.1576	0.0223	0.3297	0.0193	0.2848
30	21.16	-3.42	0.3036	0.0046	0.1045	0.0153	0.3441	1.0428	0.0170	0.2996	0.0163	0.2873
31	21.19	-4.22	0.3716	0.0080	0.1315	0.0217	0.3539	1.0154	0.0175	0.2749	0.0173	0.2707
32	21.21	-5.03	0.4129	0.0105	0.1691	0.0254	0.4095	0.9096	0.0144	0.2708	0.0158	0.2977
33	21.21	-5.72	0.5253	0.0104	0.1575	0.0207	0.3760	0.9573	0.0176	0.2728	0.0184	0.2850
34	21.21	-6.59	0.6141	0.0112	0.2271	0.0183	0.3698	0.9908	0.0163	0.2748	0.0164	0.2773
35	21.23	-7.39	0.6619	0.0119	0.2601	0.0180	0.3930	0.9737	0.0138	0.2749	0.0142	0.2823
36	21.24	-8.16	0.7697	0.0114	0.2835	0.0148	0.3683	1.0186	0.0134	0.2758	0.0132	0.2708
37	21.23	-8.98	0.8393	0.0093	0.3108	0.0111	0.3703	1.0090	0.0104	0.2757	0.0104	0.2733
38	21.27	-9.77	0.8795	0.0100	0.3410	0.0114	0.3877	1.0370	0.0121	0.2916	0.0117	0.2812
39	21.27	-10.58	0.9288	0.0092	0.3665	0.0099	0.3946	1.0325	0.0143	0.2906	0.0139	0.2814
40	21.31	-11.35	1.0753	0.0087	0.3740	0.0081	0.3478	1.0157	0.0073	0.2982	0.0092	0.2935
41	21.33	-12.15	1.0916	0.0074	0.4116	0.0068	0.3773	1.0127	0.0078	0.2861	0.0077	0.2825
42	21.34	-12.89	1.1998	0.0066	0.4187	0.0055	0.3490	1.0270	0.0063	0.2943	0.0061	0.2866
43	21.33	-13.70	1.2312	0.0056	0.4426	0.0045	0.3595	1.0164	0.0063	0.2980	0.0062	0.2932
44	21.37	-14.56	1.2908	0.0043	0.4637	0.0034	0.3592	1.0528	0.0061	0.2969	0.0058	0.2820
45	21.40	-15.42	1.3560	0.0042	0.4773	0.0031	0.3520	1.0335	0.0032	0.2965	0.0031	0.2869
46	21.38	-16.21	1.3246	0.0242	0.4380	0.0183	0.3306	1.0392	0.0037	0.2923	0.0036	0.2813

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		163		0.97		1.7	0.0	B2WQF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	21.40	-17.03	1.3285	0.0334	0.4225	0.0252	0.3180	1.0859	0.0102	0.2927	0.0094	0.2695		
48	21.45	-17.87	1.2780	0.0409	0.3859	0.0320	0.3020	1.0953	0.0085	0.3032	0.0078	0.2768		
49	21.48	-18.74	1.1642	0.0396	0.3593	0.0340	0.3087	1.1007	0.0204	0.3132	0.0185	0.2845		
50	21.46	-19.54	1.0134	0.0187	0.3378	0.0184	0.3333	1.1222	0.0210	0.3115	0.0188	0.2776		
51	21.48	-20.18	1.0264	0.0162	0.3360	0.0158	0.3274	1.1689	0.0218	0.3097	0.0187	0.2650		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	164	1.01	1.7	0.0	B2NOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	19.61	0.0913	-0.0618	-3.8785	8.5875	-0.0510	0.1609	-0.6771	
2	0.01	19.48	0.1055	0.0193	-4.0452	8.0765	-0.0450	0.2142	0.1829	
3	0.01	18.72	0.0975	0.0015	-3.7039	7.9921	-0.0440	0.2131	0.0154	
4	0.01	17.82	0.1558	0.0199	-4.0221	7.8166	-0.0450	0.1909	0.1276	
5	-0.02	17.12	0.0355	-0.0057	-3.6151	7.8898	-0.0450	0.1888	-0.1606	
6	0.03	16.27	0.1900	0.1060	-3.4441	7.3775	-0.0330	0.2085	0.5474	
7	0.01	15.41	0.0243	0.1920	-3.0968	7.1211	-0.0240	0.2261	7.9004	
8	0.01	14.78	-0.0142	0.1789	-3.2364	7.0486	-0.0130	0.1554	-12.5972	
9	0.01	13.91	-0.0043	0.1300	-2.9564	6.6277	-0.0150	0.1560	-30.2372	
10	-0.01	13.21	-0.0010	0.0644	-2.7334	6.1605	-0.0040	0.1517	-64.4000	
11	-0.01	12.36	0.0143	0.0950	-2.5512	5.8383	-0.0010	0.1623	6.6420	
12	0.0	11.72	0.0301	0.0519	-2.2602	5.4440	-0.0010	0.1807	1.7229	
13	0.0	10.65	-0.0013	0.1458	-2.1761	5.2583	0.0070	0.1779	-112.1692	
14	-0.01	10.11	0.0174	0.0326	-2.0350	4.9458	0.0060	0.1852	1.8759	
15	-0.01	9.31	-0.0173	0.0942	-1.8759	4.6169	0.0130	0.1886	-5.4462	
16	0.01	8.52	0.0363	0.0252	-1.7220	4.2285	0.0090	0.1867	0.6937	
17	-0.01	7.70	0.0150	0.0350	-1.5274	3.8481	0.0110	0.1756	2.3333	
18	-0.01	6.92	0.0125	0.0235	-1.3877	3.4366	0.0190	0.1727	1.8800	
19	0.0	6.11	0.0045	0.0117	-1.1757	3.0309	0.0150	0.1818	2.6000	
20	-0.01	5.32	0.0069	-0.0207	-1.0811	2.7503	0.0170	0.1898	-2.9942	
21	0.0	4.48	0.0217	-0.0254	-0.8715	2.3039	0.0140	0.1874	-1.1696	
22	-0.01	3.71	0.0219	-0.0187	-0.8163	1.9517	0.0120	0.1872	-0.8521	
23	-0.01	2.93	0.0358	-0.0551	-0.5863	1.5758	0.0140	0.2004	-1.5397	
24	-0.01	2.20	0.0416	-0.0902	-0.4561	1.2145	0.0080	0.2016	-2.1692	
25	-0.01	1.38	0.0307	-0.0700	-0.3588	0.8552	0.0140	0.2067	-2.2795	
26	-0.01	0.68	0.0407	-0.0880	-0.1914	0.5399	0.0090	0.2171	-2.1617	
27	-0.01	-0.13	0.0461	-0.0965	-0.1405	0.2902	0.0080	0.2230	-2.0941	
28	-0.03	-0.88	0.0434	-0.0588	0.0760	-0.0904	0.0080	0.2311	-1.3539	
29	-0.03	-1.70	0.0262	-0.0607	0.1136	-0.3350	0.0100	0.2295	-2.3160	
30	-0.01	-2.51	0.0378	-0.0609	0.2032	-0.7054	0.0130	0.2370	-1.6116	
31	-0.02	-3.36	0.0344	-0.0752	0.4450	-1.0676	0.0100	0.2286	-2.1849	
32	0.0	-4.12	0.0502	-0.0853	0.5299	-1.3508	0.0080	0.2313	-1.6988	
33	-0.01	-4.94	0.0513	-0.1068	0.6430	-1.7561	0.0130	0.2364	-2.0433	
34	-0.01	-5.68	0.0369	-0.0806	0.8622	-2.1685	0.0090	0.2395	-2.1859	
35	-0.03	-6.49	0.0460	-0.0964	1.0363	-2.5786	0.0100	0.2474	-2.0956	
36	-0.01	-7.25	0.0348	-0.0597	1.1733	-2.9705	0.0100	0.2531	-1.7161	
37	-0.01	-8.09	0.0475	-0.1005	1.3314	-3.3888	0.0110	0.2605	-2.1150	
38	-0.01	-8.85	0.0648	-0.1027	1.5360	-3.7692	0.0110	0.2515	-1.5852	
39	-0.01	-9.70	0.0439	-0.0954	1.6275	-4.1342	0.0130	0.2552	-2.1745	
40	-0.02	-10.43	0.0455	-0.0987	1.8007	-4.4667	0.0110	0.2441	-2.1692	
41	-0.01	-11.22	0.0335	-0.0669	2.0251	-4.8839	0.0060	0.2486	-1.9970	
42	-0.01	-11.94	0.0623	-0.1712	2.1683	-5.2264	0.0120	0.2328	-2.7483	
43	-0.02	-12.73	0.0529	-0.1730	2.3668	-5.6212	0.0030	0.2211	-3.2715	
44	-0.04	-13.48	0.0528	-0.2039	2.5538	-5.9740	-0.0010	0.2212	-3.8621	
45	-0.02	-14.41	0.0247	-0.1346	2.7341	-6.4135	-0.0030	0.2101	-5.4486	
46	-0.03	-15.16	0.0098	-0.1297	2.8669	-6.6793	-0.0220	0.2172	-13.2367	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6	1.01	1.7	0.0	BZWO12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	-0.04	-15.99	0.0066	-0.1422	3.0619	-6.9753	-0.0160	0.2080	-21.5515	
48	-0.02	-16.80	0.0017	-0.1184	3.2987	-7.4238	-0.0140	0.1946	-69.6352	
49	-0.02	-17.67	-0.0102	-0.1547	3.5444	-7.7398	-0.0130	0.2075	15.1686	
50	-0.02	-18.48	-0.0274	0.0374	3.6536	-7.9187	-0.0150	0.2236	-1.3635	
51	-0.02	-19.39	0.0417	-0.2473	3.8695	-8.1739	-0.0070	0.2193	-5.9324	
52	-0.02	-20.13	0.0268	-0.0325	4.1194	-8.4657	-0.0060	0.1995	-1.2134	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		164	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2	
1	0.01	19.61	-1.3125	0.0041	-0.3674	-0.0031	0.2800	-0.5352	0.0263	-0.2645	-0.0491	0.4942	
2	0.01	19.48	-1.2510	0.0041	-0.3751	-0.0033	0.2999	-0.5141	0.0260	-0.2658	-0.0507	0.5170	
3	0.01	18.72	-1.2370	0.0051	-0.3648	-0.0041	0.2949	-0.5117	0.0262	-0.2664	-0.0513	0.5206	
4	0.01	17.82	-1.2616	0.0050	-0.3580	-0.0040	0.2838	-0.5065	0.0260	-0.2705	-0.0514	0.5340	
5	-0.02	17.12	-1.2229	0.0043	-0.3489	-0.0035	0.2853	-0.4750	0.0258	-0.2726	-0.0544	0.5738	
6	0.03	16.27	-1.1747	0.0045	-0.3388	-0.0039	0.2884	-0.4861	0.0259	-0.2742	-0.0533	0.5640	
7	0.01	15.41	-1.0847	0.0045	-0.3338	-0.0042	0.3078	-0.5046	0.0262	-0.2747	-0.0520	0.5444	
8	0.01	14.78	-1.0512	0.0046	-0.3238	-0.0044	0.3080	-0.4962	0.0262	-0.2752	-0.0528	0.5547	
9	0.01	13.91	-0.9624	0.0039	-0.3186	-0.0041	0.3206	-0.4919	0.0258	-0.2726	-0.0524	0.5541	
10	-0.01	13.21	-0.9617	0.0032	-0.2898	-0.0033	0.3013	-0.4965	0.0260	-0.2732	-0.0523	0.5503	
11	-0.01	12.36	-0.9145	0.0025	-0.2832	-0.0028	0.3097	-0.4957	0.0261	-0.2757	-0.0527	0.5561	
12	0.0	11.72	-0.8876	0.0023	-0.2603	-0.0026	0.2932	-0.5074	0.0259	-0.2715	-0.0511	0.5350	
13	0.0	10.85	-0.8223	0.0023	-0.2564	-0.0028	0.3118	-0.5313	0.0261	-0.2737	-0.0491	0.5152	
14	-0.01	10.11	-0.7723	0.0030	-0.2466	-0.0039	0.3194	-0.5256	0.0258	-0.2728	-0.0492	0.5191	
15	-0.01	9.31	-0.7286	0.0027	-0.2287	-0.0037	0.3139	-0.5219	0.0259	-0.2749	-0.0496	0.5267	
16	0.01	8.52	-0.6974	0.0025	-0.2173	-0.0037	0.3116	-0.5224	0.0260	-0.2748	-0.0498	0.5259	
17	-0.01	7.70	-0.6357	0.0031	-0.2068	-0.0049	0.3254	-0.5452	0.0259	-0.2757	-0.0476	0.5056	
18	-0.01	6.92	-0.5946	0.0022	-0.1798	-0.0037	0.3024	-0.5395	0.0261	-0.2775	-0.0485	0.5143	
19	0.0	6.11	-0.4897	0.0025	-0.1718	-0.0051	0.3508	-0.5703	0.0260	-0.2728	-0.0456	0.4784	
20	-0.01	5.32	-0.4399	0.0030	-0.1513	-0.0069	0.3439	-0.5593	0.0263	-0.2771	-0.0470	0.4955	
21	0.0	4.48	-0.3956	0.0022	-0.1262	-0.0057	0.3191	-0.5214	0.0264	-0.2825	-0.0506	0.5418	
22	-0.01	3.71	-0.3033	0.0018	-0.1171	-0.0061	0.3860	-0.5212	0.0262	-0.2838	-0.0503	0.5444	
23	-0.01	2.93	-0.2689	0.0015	-0.0957	-0.0056	0.3559	-0.5527	0.0261	-0.2797	-0.0473	0.5060	
24	-0.01	2.20	-0.2006	0.0022	-0.0718	-0.0110	0.3581	-0.5298	0.0263	-0.2812	-0.0496	0.5308	
25	-0.01	1.38	-0.1433	0.0015	-0.0572	-0.0108	0.3995	-0.5122	0.0262	-0.2847	-0.0511	0.5557	
26	-0.01	0.68	-0.0735	0.0013	-0.0376	-0.0184	0.5114	-0.5065	0.0261	-0.2850	-0.0515	0.5626	
27	-0.01	-0.13	-0.0317	0.0003	-0.0185	-0.0095	0.5824	-0.4988	0.0262	-0.2870	-0.0525	0.5753	
28	-0.03	-0.88	0.0167	0.0000	0.0000	0.0030	0.2853	-0.4959	0.0262	-0.2889	-0.0529	0.5826	
29	-0.03	-1.70	0.0733	-0.0013	0.0210	-0.0184	0.2868	-0.5136	0.0262	-0.2896	-0.0511	0.5639	
30	-0.01	-2.51	0.1288	-0.0021	0.0432	-0.0167	0.3355	-0.5361	0.0262	-0.2884	-0.0489	0.5380	
31	-0.02	-3.36	0.1530	-0.0033	0.0669	-0.0216	0.4371	-0.5488	0.0262	-0.2858	-0.0477	0.5209	
32	0.0	-4.12	0.2404	-0.0047	0.0855	-0.0195	0.3557	-0.5242	0.0262	-0.2887	-0.0500	0.5506	
33	-0.01	-4.94	0.3145	-0.0057	0.1009	-0.0183	0.3208	-0.5103	0.0262	-0.2899	-0.0515	0.5681	
34	-0.01	-5.68	0.3599	-0.0060	0.1205	-0.0167	0.3349	-0.5264	0.0260	-0.2881	-0.0495	0.5473	
35	-0.03	-6.49	0.4025	-0.0069	0.1436	-0.0171	0.3568	-0.5286	0.0262	-0.2928	-0.0495	0.5539	
36	-0.01	-7.25	0.4794	-0.0081	0.1648	-0.0170	0.3439	-0.5692	0.0263	-0.2869	-0.0462	0.5041	
37	-0.01	-8.09	0.5470	-0.0091	0.1785	-0.0166	0.3263	-0.5719	0.0263	-0.2865	-0.0461	0.5010	
38	-0.01	-8.85	0.5788	-0.0093	0.2037	-0.0161	0.3519	-0.5601	0.0260	-0.2846	-0.0465	0.5082	
39	-0.01	-9.70	0.6571	-0.0109	0.2204	-0.0166	0.3355	-0.5592	0.0266	-0.2900	-0.0476	0.5186	
40	-0.02	-10.43	0.6990	-0.0111	0.2340	-0.0159	0.3348	-0.5474	0.0265	-0.2875	-0.0485	0.5252	
41	-0.01	-11.22	0.7292	-0.0114	0.2541	-0.0157	0.3484	-0.5739	0.0264	-0.2859	-0.0460	0.4982	
42	-0.01	-11.94	0.8087	-0.0115	0.2616	-0.0143	0.3234	-0.6086	0.0268	-0.2828	-0.0440	0.4646	
43	-0.02	-12.73	0.8603	-0.0104	0.2732	-0.0121	0.3175	-0.5506	0.0269	-0.2882	-0.0488	0.5235	
44	-0.04	-13.48	0.9090	-0.0128	0.2879	-0.0141	0.3167	-0.5593	0.0271	-0.2842	-0.0484	0.5082	
45	-0.02	-14.41	0.9653	-0.0130	0.3011	-0.0135	0.3119	-0.5246	0.0266	-0.2839	-0.0507	0.5411	
46	-0.03	-15.16	0.9783	-0.0139	0.3137	-0.0142	0.3206	-0.4964	0.0260	-0.2861	-0.0524	0.5763	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.04	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.04	-15.99	1.0274	-0.0134	0.3285	-0.0131	0.3197	-0.4952	0.0263	-0.2809	-0.0532	0.5672
48	-0.02	-16.80	1.0670	-0.0124	0.3383	-0.0116	0.3171	-0.5032	0.0259	-0.2880	-0.0515	0.5722
49	-0.02	-17.67	1.1625	-0.0134	0.3430	-0.0116	0.2950	-0.4961	0.0258	-0.2857	-0.0520	0.5759
50	-0.02	-18.48	1.1482	-0.0132	0.3543	-0.0115	0.3086	-0.5133	0.0247	-0.2834	-0.0482	0.5521
51	-0.02	-19.39	1.1957	-0.0125	0.3713	-0.0105	0.3106	-0.4547	0.0266	-0.2892	-0.0586	0.6360
52	-0.02	-20.13	1.2057	-0.0131	0.3817	-0.0109	0.3165	-0.5085	0.0252	-0.2830	-0.0496	0.5566

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RR10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.01	1.7	0.0	82NOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	0.01	19.61	-0.9981	0.0004	-0.4108	-0.0005	0.4115	-0.0733	0.0140	-0.0239	-0.1916	0.3264
2	0.01	19.48	-0.9968	0.0004	-0.4047	-0.0004	0.4060	-0.0810	0.0118	-0.0179	-0.1457	0.2209
3	0.01	18.72	-0.9954	-0.0005	-0.4040	0.0006	0.4058	-0.0525	0.0044	-0.0079	-0.0847	0.1504
4	0.01	17.82	-0.9926	0.0007	-0.4050	-0.0008	0.4343	-0.0616	0.0083	-0.0194	-0.1355	0.3154
5	-0.02	17.12	-0.9170	0.0003	-0.3922	-0.0003	0.4276	-0.0427	0.0073	-0.0221	-0.1721	0.5182
6	0.03	16.27	-0.9109	0.0002	-0.3798	-0.0002	0.4171	-0.0773	0.0017	-0.0162	-0.0220	0.2090
7	0.01	15.41	-0.8803	-0.0006	-0.3714	0.0007	0.4219	-0.0824	0.0016	-0.0107	-0.0194	0.1293
8	0.01	14.78	-0.8693	0.0001	-0.3705	-0.0002	0.4261	-0.0610	-0.0033	-0.0067	0.0541	0.1103
9	0.01	13.91	-0.8344	-0.0008	-0.3492	0.0010	0.4185	-0.0396	-0.0040	-0.0053	0.1010	0.1337
10	-0.01	13.21	-0.7194	-0.0018	-0.3509	0.0025	0.4878	-0.0560	-0.0043	0.0041	0.0777	-0.0739
11	-0.01	12.36	-0.6963	-0.0022	-0.3310	0.0032	0.4754	-0.0338	-0.0051	0.0003	0.1523	-0.0100
12	0.0	11.72	-0.6705	-0.0029	-0.3155	0.0044	0.4706	-0.0569	-0.0058	0.0098	0.1019	-0.1729
13	0.0	10.85	-0.6275	-0.0031	-0.3062	0.0050	0.4879	-0.0324	-0.0057	0.0089	0.1759	-0.2748
14	-0.01	10.11	-0.5807	-0.0027	-0.2922	0.0046	0.5032	-0.0369	-0.0051	0.0125	0.1382	-0.3389
15	-0.01	9.31	-0.5495	-0.0027	-0.2699	0.0049	0.4911	-0.0296	-0.0029	0.0096	0.0996	-0.3256
16	0.01	8.52	-0.4888	-0.0035	-0.2606	0.0072	0.5331	0.0055	-0.0037	0.0100	-0.6726	1.8241
17	-0.01	7.70	-0.4963	-0.0029	-0.2283	0.0058	0.4599	0.0022	-0.0040	0.0097	-1.8179	4.4241
18	-0.01	6.92	-0.3907	-0.0042	-0.2237	0.0109	0.5725	-0.0214	-0.0033	0.0194	0.1565	-0.9051
19	0.0	6.11	-0.3571	-0.0042	-0.1984	0.0119	0.5555	-0.0172	-0.0031	0.0164	0.1831	-0.9517
20	-0.01	5.32	-0.3204	-0.0041	-0.1810	0.0128	0.5647	-0.0288	-0.0024	0.0196	0.0851	-0.6807
21	0.0	4.48	-0.2529	-0.0042	-0.1605	0.0168	0.6349	0.0008	-0.0023	0.0138	-2.8745	17.2082
22	-0.01	3.71	-0.1815	-0.0043	-0.1424	0.0217	0.7845	-0.0100	-0.0015	0.0138	0.1550	-1.3768
23	-0.01	2.93	-0.1652	-0.0030	-0.1133	0.0182	0.6861	0.0111	-0.0024	0.0157	-0.2162	1.4143
24	-0.01	2.20	-0.1073	-0.0037	-0.0900	0.0349	0.8393	-0.0100	-0.0016	0.0138	0.1600	-1.3768
25	-0.01	1.38	-0.0433	-0.0030	-0.0758	0.0693	1.7512	-0.0075	-0.0019	0.0185	0.2533	-2.4668
26	-0.01	0.68	0.0081	-0.0040	-0.0521	-0.4937	-6.4322	-0.0286	-0.0020	0.0178	0.0717	-0.6213
27	-0.01	-0.13	0.0229	-0.0038	-0.0282	-0.1681	-1.2301	-0.0058	-0.0020	0.0114	0.3534	-1.9599
28	-0.03	-0.88	0.0505	-0.0033	-0.0030	-0.0663	-0.0589	-0.0133	-0.0013	0.0123	0.1015	-0.9224
29	-0.03	-1.70	0.1252	-0.0032	0.0147	-0.0260	0.1176	-0.0277	-0.0013	0.0127	0.0487	-0.4574
30	-0.01	-2.51	0.1499	-0.0028	0.0384	-0.0190	0.2538	-0.0499	-0.0009	0.0159	0.0190	-0.3181
31	-0.02	-3.36	0.2137	-0.0036	0.0578	-0.0168	0.2705	-0.0436	-0.0014	0.0196	0.0321	-0.4489
32	0.0	-4.12	0.2678	-0.0024	0.0829	-0.0091	0.3097	-0.0360	-0.0011	0.0174	0.0306	-0.4835
33	-0.01	-4.94	0.3049	-0.0012	0.1029	-0.0039	0.3175	-0.0061	-0.0014	0.0121	0.2377	-1.9783
34	-0.01	-5.68	0.3547	-0.0006	0.1298	-0.0017	0.3659	-0.0132	-0.0009	0.0116	0.0720	-0.8789
35	-0.03	-6.49	0.4018	0.0011	0.1531	0.0027	0.3810	-0.0138	-0.0013	0.0035	-0.0978	0.2535
36	-0.01	-7.25	0.4694	0.0010	0.1722	0.0022	0.3669	-0.0309	-0.0009	0.0105	0.0307	-0.3399
37	-0.01	-8.09	0.5402	0.0020	0.1857	0.0038	0.3438	0.0041	-0.0024	0.0003	-0.5853	0.0649
38	-0.01	-8.85	0.5624	0.0027	0.2102	0.0049	0.3737	0.0187	-0.0024	-0.0015	-0.1283	-0.0785
39	-0.01	-9.70	0.6004	0.0032	0.2261	0.0054	0.3765	-0.0520	-0.0020	0.0105	0.0394	-0.2014
40	-0.02	-10.43	0.6371	0.0040	0.2448	0.0064	0.3842	-0.0297	-0.0031	0.0079	0.1044	-0.2661
41	-0.01	-11.22	0.7183	0.0051	0.2560	0.0071	0.3565	-0.0308	-0.0015	0.0105	0.0503	-0.3421
42	-0.01	-11.94	0.7421	0.0056	0.2697	0.0075	0.3634	-0.0375	-0.0013	0.0088	0.0347	-0.2348
43	-0.02	-12.73	0.7816	0.0067	0.2877	0.0086	0.3681	-0.0293	-0.0008	0.0040	0.0273	-0.1378
44	-0.02	-13.48	0.8198	0.0069	0.3036	0.0085	0.3729	-0.0376	-0.0023	0.0089	0.0625	-0.2359
45	-0.02	-14.41	0.8355	0.0078	0.3261	0.0093	0.3903	-0.0468	-0.0015	0.0035	0.0331	-0.0749
46	-0.02	-15.16	0.9442	0.0084	0.3388	0.0089	0.3689	-0.0578	-0.0011	0.0105	0.0397	-0.2001

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		164	1.01	1.7	0.0	0.82	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.04	-15.99	0.9333	0.0099	0.3426	0.0107	0.3671	-0.0467	-0.0025	0.0035	0.0546	-0.0758
48	-0.02	-16.80	0.9921	0.0106	0.3527	0.0107	0.3555	-0.0502	-0.0008	0.0014	0.0169	-0.0273
49	-0.02	-17.67	1.0756	0.0114	0.3595	0.0106	0.3342	-0.0238	-0.0017	-0.0036	0.0735	0.1525
50	-0.02	-18.48	1.0506	0.0123	0.3794	0.0118	0.3611	-0.0161	-0.0013	-0.0058	0.0838	0.3581
51	-0.02	-19.39	1.0494	0.0126	0.3786	0.0115	0.3444	-0.0423	-0.0018	-0.0008	0.0437	0.0188
52	-0.02	-20.13	1.1293	0.0133	0.3902	0.0118	0.3455	-0.0527	-0.0022	-0.0016	0.0417	0.0296

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		165		1.01		1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP					
1	3.08	19.74	0.2097	0.4174	-4.0150	8.0596	-0.1030	0.1758	1.9906					
2	3.06	19.73	0.2219	0.4253	-3.9761	8.0852	-0.1200	0.1767	1.9168					
3	3.08	19.61	0.1681	0.6526	-4.0274	8.1800	-0.0750	0.1639	3.8826					
4	3.06	18.69	0.1976	0.5153	-3.9476	6.0273	-0.0990	0.1715	2.6081					
5	3.07	17.98	0.1681	0.6706	-3.7935	7.8886	-0.0520	0.1659	3.9896					
6	3.08	17.14	0.2539	0.3445	-3.7247	7.7753	-0.0890	0.1738	1.3570					
7	3.07	16.31	0.2775	0.2235	-3.4094	7.3508	-0.0760	0.1718	0.8054					
8	3.07	15.61	0.2629	0.1909	-3.3011	7.2381	-0.0630	0.1686	0.7263					
9	3.06	14.79	0.2873	-0.0342	-3.0879	6.9097	-0.0190	0.1665	-0.1191					
10	3.04	14.02	0.3043	-0.0720	-2.8703	6.4751	-0.0300	0.1660	-0.2367					
11	3.06	13.28	0.3460	-0.2474	-2.7631	6.2441	0.0010	0.1506	-0.7150					
12	3.05	12.54	0.3546	-0.3204	-2.6287	5.9488	0.0040	0.1397	-0.9017					
13	3.04	11.85	0.3710	-0.4733	-2.3602	5.5470	0.0140	0.1533	-1.2760					
14	3.03	10.95	0.3929	-0.5691	-2.2643	5.2428	0.0240	0.1522	-1.4483					
15	3.04	10.22	0.4057	-0.6960	-2.0110	4.8152	0.0290	0.1643	-1.7204					
16	3.04	9.40	0.4195	-0.7388	-1.8178	4.4236	0.0360	0.1561	-1.7599					
17	3.00	8.59	0.4260	-0.8124	-1.7468	4.1673	0.0380	0.1595	-1.9069					
18	3.01	7.78	0.4526	-0.8617	-1.4704	3.7253	0.0350	0.1666	-1.9036					
19	3.00	6.99	0.4886	-1.0220	-1.4200	3.4548	0.0320	0.1690	-2.0916					
20	2.99	6.18	0.4613	-1.0358	-1.2158	2.9980	0.0270	0.1720	-2.2453					
21	3.00	5.39	0.4562	-1.0127	-1.0794	2.6639	0.0310	0.1777	-2.2196					
22	2.99	4.56	0.4457	-1.0190	-0.9617	2.3462	0.0210	0.1777	-2.2860					
23	3.01	3.83	0.4973	-1.1372	-0.7671	1.9028	0.0160	0.1937	-2.2866					
24	2.99	3.06	0.5002	-1.1703	-0.5976	1.5376	0.0160	0.1961	-2.3394					
25	3.00	2.31	0.5229	-1.2210	-0.4850	1.1650	0.0130	0.2033	-2.3350					
26	3.01	1.51	0.5518	-1.2945	-0.3735	0.8678	0.0120	0.2153	-2.3458					
27	3.00	0.78	0.5520	-1.3338	-0.2052	0.5142	0.0130	0.2182	-2.4161					
28	3.00	0.0	0.5559	-1.3452	-0.0561	0.1975	0.0130	0.2345	-2.4198					
29	2.99	-0.77	0.5395	-1.3053	0.0638	-0.0543	0.0140	0.2282	-2.4193					
30	2.99	-1.59	0.5535	-1.3509	0.0356	-0.1818	0.0120	0.2258	-2.4405					
31	3.01	-2.38	0.5516	-1.3212	0.2531	-0.5883	0.0120	0.2358	-2.3951					
32	2.99	-3.24	0.5339	-1.2834	0.4209	-0.9133	0.0130	0.2365	-2.4037					
33	2.99	-4.02	0.5304	-1.2385	0.4465	-1.1751	0.0150	0.2365	-2.3350					
34	3.01	-4.80	0.5241	-1.1587	0.6497	-1.5695	0.0090	0.2401	-2.2108					
35	2.99	-5.52	0.5045	-1.1473	0.7942	-1.9368	0.0070	0.2443	-2.2740					
36	3.01	-6.34	0.5117	-1.1064	0.9426	-2.3515	0.0090	0.2509	-2.1620					
37	3.02	-7.10	0.5012	-1.0367	1.0994	-2.7439	0.0	0.2571	-2.0683					
38	3.00	-7.95	0.4798	-1.0187	1.2597	-3.0775	0.0060	0.2651	-2.1211					
39	3.01	-8.69	0.4602	-0.9563	1.4370	-3.4576	0.0	0.2686	-2.0770					
40	3.01	-9.51	0.4369	-0.9157	1.5484	-3.8265	0.0020	0.2681	-2.0957					
41	3.01	-10.28	0.4434	-0.8448	1.7683	-4.2123	-0.0080	0.2702	-1.9051					
42	3.01	-11.07	0.4410	-0.7954	1.9395	-4.6251	-0.0120	0.2582	-1.8035					
43	3.01	-11.78	0.3919	-0.6987	2.0964	-5.0797	-0.0110	0.2636	-1.7827					
44	3.01	-12.56	0.4018	-0.6706	2.3052	-5.4410	-0.0140	0.2674	-1.6687					
45	3.03	-13.32	0.3764	-0.5899	2.5247	-5.8552	-0.0050	0.2458	-1.5567					
46	3.02	-14.18	0.3380	-0.4181	2.6631	-6.1929	0.0050	0.2524	-1.2373					

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 165 1.01 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	3.05	-14.99	0.3176	-0.3396	2.8962	-6.6034	0.0260	0.2321	-1.0694
48	3.03	-15.81	0.3460	-0.3354	3.0493	-6.9417	0.0570	0.2291	-0.9694
49	3.04	-16.63	0.3270	-0.1678	3.2291	-7.2853	0.0600	0.2276	-0.5131
50	3.06	-17.40	0.3058	-0.1171	3.4462	-7.6014	0.0630	0.2432	-0.3830
51	3.04	-18.30	0.3157	-0.0280	3.6746	-7.9541	0.0780	0.2326	-0.0886
52	3.07	-19.13	0.2931	0.1066	3.8000	-8.1516	0.0820	0.2330	0.3639
53	3.08	-19.93	0.2374	0.2206	3.9626	-8.3103	0.0860	0.2303	0.9294
54	3.04	-20.63	0.1386	0.3669	4.1115	-8.3827	0.0980	0.2353	2.6476

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION		
6	1.65	1.01	1.7	0.0	B2WUF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	LNFL	CH1	C01	XCPF1	YCPF1	CNF2	CM2	C02	XCPF2	YCPF2
1	3.08	19.74	-1.0392	0.0074	-0.3204	-0.0068	0.2942	-0.1895	0.0278	-0.1942	-0.1467	1.0250
2	3.06	19.73	-1.0738	0.0063	-0.3383	-0.0059	0.3151	-0.2058	0.0282	-0.1961	-0.1370	0.9532
3	3.08	19.61	-1.1125	0.0073	-0.3227	-0.0066	0.2901	-0.1974	0.0275	-0.2017	-0.1395	1.0222
4	3.06	18.69	-1.0825	0.0079	-0.3165	-0.0073	0.2928	-0.1850	0.0276	-0.1959	-0.1492	1.0592
5	3.07	17.98	-0.9929	0.0097	-0.3173	-0.0098	0.3195	-0.2054	0.0275	-0.2059	-0.1339	1.0026
6	3.08	17.14	-1.0179	0.0084	-0.3108	-0.0083	0.3053	-0.2021	0.0276	-0.1956	-0.1368	0.9680
7	3.07	16.31	-1.0027	0.0076	-0.2957	-0.0076	0.2949	-0.1817	0.0271	-0.2004	-0.1491	1.1032
8	3.07	15.61	-0.9343	0.0085	-0.2967	-0.0091	0.3176	-0.2166	0.0267	-0.1998	-0.1232	0.9228
9	3.06	14.79	-0.9082	0.0087	-0.2811	-0.0096	0.3095	-0.1835	0.0262	-0.2007	-0.1428	1.0940
10	3.04	14.02	-0.8932	0.0075	-0.2623	-0.0084	0.2937	-0.1987	0.0256	-0.1986	-0.1291	0.9995
11	3.06	13.28	-0.8286	0.0067	-0.2573	-0.0081	0.3105	-0.1802	0.0255	-0.2036	-0.1418	1.1301
12	3.05	12.54	-0.7919	0.0052	-0.2445	-0.0066	0.3092	-0.1863	0.0248	-0.2035	-0.1334	1.0927
13	3.04	11.85	-0.7478	0.0057	-0.2329	-0.0076	0.3114	-0.1941	0.0253	-0.2009	-0.1306	1.0354
14	3.03	10.95	-0.6819	0.0052	-0.2319	-0.0077	0.3401	-0.1931	0.0259	-0.2065	-0.1341	1.0696
15	3.04	10.22	-0.6577	0.0051	-0.2163	-0.0078	0.3290	-0.1987	0.0265	-0.2058	-0.1336	1.0358
16	3.04	9.40	-0.6313	0.0064	-0.1974	-0.0102	0.3126	-0.1793	0.0263	-0.2059	-0.1469	1.1486
17	3.00	8.59	-0.6033	0.0064	-0.1934	-0.0107	0.3206	-0.2059	0.0263	-0.2097	-0.1277	1.0185
18	3.01	7.78	-0.5445	0.0063	-0.1782	-0.0116	0.3273	-0.2025	0.0262	-0.2134	-0.1296	1.0542
19	3.00	6.99	-0.4815	0.0063	-0.1705	-0.0132	0.3542	-0.2062	0.0264	-0.2100	-0.1280	1.0185
20	2.99	6.18	-0.4654	0.0052	-0.1448	-0.0112	0.3111	-0.2139	0.0262	-0.2097	-0.1227	0.9807
21	3.00	5.39	-0.4124	0.0050	-0.1344	-0.0121	0.3259	-0.2121	0.0263	-0.2125	-0.1240	1.0022
22	2.99	4.56	-0.3037	0.0048	-0.1293	-0.0158	0.4257	-0.2303	0.0261	-0.2169	-0.1135	0.9420
23	3.01	3.83	-0.2794	0.0046	-0.1087	-0.0165	0.3890	-0.2175	0.0260	-0.2176	-0.1197	1.0008
24	2.99	3.06	-0.2317	0.0043	-0.0861	-0.0188	0.3716	-0.2294	0.0260	-0.2161	-0.1133	0.9422
25	3.00	2.31	-0.1981	0.0044	-0.0660	-0.0225	0.3332	-0.2105	0.0258	-0.2201	-0.1225	1.0458
26	3.01	1.51	-0.1320	0.0042	-0.0485	-0.0322	0.3673	-0.2171	0.0254	-0.2174	-0.1172	1.0016
27	3.00	0.78	-0.0581	0.0032	-0.0388	-0.0559	0.6671	-0.2280	0.0253	-0.2164	-0.1112	0.9494
28	3.00	0.0	-0.0464	0.0007	-0.0111	-0.0162	0.2384	-0.2247	0.0253	-0.2245	-0.1128	0.9994
29	2.99	-0.77	-0.0145	-0.0004	0.0041	0.0310	-0.2806	-0.2240	0.0251	-0.2276	-0.1123	1.0162
30	2.99	-1.59	0.0238	-0.0014	0.0213	-0.0588	0.8962	-0.2293	0.0251	-0.2261	-0.1097	0.9861
31	3.01	-2.38	0.0857	-0.0042	0.0401	-0.0490	0.4686	-0.2421	0.0249	-0.2283	-0.1030	0.9433
32	2.99	-3.24	0.1513	-0.0053	0.0565	-0.0350	0.3735	-0.2570	0.0246	-0.2299	-0.0959	0.8947
33	2.99	-4.02	0.1692	-0.0062	0.0752	-0.0366	0.4443	-0.2542	0.0242	-0.2352	-0.0952	0.9253
34	3.01	-4.80	0.2734	-0.0065	0.0916	-0.0238	0.3350	-0.2839	0.0234	-0.2328	-0.0826	0.8198
35	2.99	-5.52	0.3012	-0.0077	0.1082	-0.0257	0.3591	-0.3141	0.0221	-0.2344	-0.0705	0.7460
36	3.01	-6.34	0.3322	-0.0091	0.1288	-0.0275	0.3877	-0.2954	0.0209	-0.2413	-0.0707	0.8168
37	3.02	-7.10	0.3625	-0.0094	0.1510	-0.0261	0.4165	-0.2778	0.0194	-0.2469	-0.0651	0.8290
38	3.00	-7.95	0.4887	-0.0106	0.1537	-0.0217	0.3146	-0.3227	0.0183	-0.2464	-0.0568	0.7635
39	3.01	-8.69	0.4972	-0.0121	0.1766	-0.0243	0.3551	-0.3307	0.0170	-0.2540	-0.0514	0.7679
40	3.01	-9.51	0.5208	-0.0123	0.1932	-0.0236	0.3710	-0.3294	0.0160	-0.2560	-0.0487	0.7772
41	3.01	-10.28	0.5846	-0.0133	0.2041	-0.0227	0.3491	-0.2982	0.0153	-0.2652	-0.0513	0.8894
42	3.01	-11.07	0.6149	-0.0142	0.2130	-0.0231	0.3464	-0.3221	0.0139	-0.2685	-0.0433	0.8335
43	3.01	-11.78	0.6821	-0.0143	0.2228	-0.0210	0.3266	-0.3466	0.0129	-0.2729	-0.0373	0.7872
44	3.01	-12.56	0.6874	-0.0144	0.2379	-0.0209	0.3462	-0.3398	0.0123	-0.2778	-0.0362	0.8175
45	3.03	-13.32	0.7917	-0.0143	0.2395	-0.0181	0.3025	-0.3887	0.0115	-0.2845	-0.0297	0.7319
46	3.02	-14.18	0.8274	-0.0137	0.2528	-0.0166	0.3055	-0.3924	0.0108	-0.2933	-0.0275	0.7475

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.65	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.05	-14.99	0.8368	-0.0140	0.2682	-0.0167	0.3204	-0.4406	0.0105	-0.3015	-0.0239	0.6842
48	3.03	-15.81	0.9139	-0.0129	0.2844	-0.0142	0.3112	-0.4694	0.0120	-0.3204	-0.0256	0.6825
49	3.04	-16.63	0.9767	-0.0151	0.2939	-0.0155	0.3009	-0.5496	0.0115	-0.3193	-0.0209	0.5810
50	3.06	-17.40	0.9612	-0.0165	0.3120	-0.0172	0.3246	-0.4989	0.0114	-0.3313	-0.0228	0.6641
51	3.04	-18.30	0.9956	-0.0166	0.3229	-0.0167	0.3243	-0.6102	0.0119	-0.3291	-0.0195	0.5393
52	3.07	-19.13	1.0309	-0.0175	0.3270	-0.0170	0.3172	-0.5897	0.0105	-0.3358	-0.0179	0.5694
53	3.08	-19.93	1.0479	-0.0166	0.3340	-0.0159	0.3187	-0.6574	0.0107	-0.3403	-0.0163	0.5177
54	3.04	-20.63	1.0841	-0.0177	0.3349	-0.0163	0.3090	-0.5645	0.0094	-0.3415	-0.0166	0.6049

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION					
6	165	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED				
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4			
1	3.08	19.74	-1.1274	-0.0002	-0.4441	0.0002	0.3939	-0.2129	-0.0359	-0.0499	0.1688	0.2346			
2	3.06	19.73	-1.0745	0.0003	-0.4537	-0.0003	0.4223	-0.2445	-0.0296	-0.0579	0.1210	0.2367			
3	3.08	19.61	-1.1161	-0.0001	-0.4480	0.0001	0.4014	-0.2504	-0.0380	-0.0447	0.1517	0.1787			
4	3.06	18.69	-1.1157	0.0008	-0.4481	-0.0008	0.4016	-0.2356	-0.0400	-0.0451	0.1700	0.1914			
5	3.07	17.98	-1.1060	0.0006	-0.4406	-0.0005	0.3984	-0.2135	-0.0502	-0.0233	0.2353	0.1093			
6	3.08	17.14	-1.0381	0.0018	-0.4491	-0.0018	0.4326	-0.2143	-0.0420	-0.0332	0.1962	0.1550			
7	3.07	16.31	-0.9812	0.0035	-0.4353	-0.0036	0.4437	-0.1887	-0.0411	-0.0314	0.2176	0.1663			
8	3.07	15.61	-0.9866	0.0034	-0.4217	-0.0035	0.4275	-0.1546	-0.0447	-0.0134	0.2891	0.0868			
9	3.06	14.79	-0.9263	0.0034	-0.4174	-0.0037	0.4506	-0.1420	-0.0480	0.0098	0.3383	-0.0689			
10	3.04	14.02	-0.9080	0.0032	-0.4013	-0.0036	0.4419	-0.0983	-0.0471	0.0059	0.4796	-0.0605			
11	3.06	13.28	-0.8475	0.0027	-0.3882	-0.0032	0.4580	-0.0746	-0.0475	0.0226	0.6373	-0.3035			
12	3.05	12.54	-0.8256	0.0020	-0.3680	-0.0025	0.4457	-0.0479	-0.0483	0.0300	1.0092	-0.6271			
13	3.04	11.85	-0.7777	0.0011	-0.3553	-0.0014	0.4569	-0.0045	-0.0474	0.0394	10.5315	-8.7557			
14	3.03	10.95	-0.7234	-0.0006	-0.3367	0.0008	0.4655	0.0234	-0.0446	0.0520	-1.9056	2.2221			
15	3.04	10.22	-0.6983	-0.0022	-0.3148	0.0031	0.4506	0.0356	-0.0414	0.0566	-1.1641	1.5888			
16	3.04	9.40	-0.6230	-0.0030	-0.3020	0.0049	0.4847	0.0487	-0.0372	0.0702	-0.7648	1.4420			
17	3.00	8.59	-0.5736	-0.0043	-0.2801	0.0075	0.4883	0.1004	-0.0336	0.0711	-0.3351	0.7087			
18	3.01	7.78	-0.4973	-0.0045	-0.2603	0.0091	0.5234	0.0874	-0.0274	0.0749	-0.3134	0.8572			
19	3.00	6.99	-0.4540	-0.0060	-0.2434	0.0133	0.5360	0.1430	-0.0246	0.0753	-0.1720	0.5269			
20	2.99	6.18	-0.4011	-0.0057	-0.2147	0.0143	0.5354	0.1556	-0.0203	0.0760	-0.1304	0.4887			
21	3.00	5.39	-0.3598	-0.0054	-0.1910	0.0150	0.5308	0.1321	-0.0156	0.0817	-0.1196	0.6186			
22	2.99	4.56	-0.2790	-0.0057	-0.1681	0.0204	0.6023	0.1646	-0.0125	0.0755	-0.0759	0.4590			
23	3.01	3.83	-0.2177	-0.0055	-0.1436	0.0255	0.6598	0.1757	-0.0096	0.0832	-0.0549	0.4738			
24	2.99	3.06	-0.2060	-0.0045	-0.1124	0.0218	0.5458	0.1461	-0.0068	0.0858	-0.0469	0.5872			
25	3.00	2.31	-0.1591	-0.0053	-0.0889	0.0333	0.5589	0.1927	-0.0057	0.0824	-0.0298	0.4277			
26	3.01	1.51	-0.0468	-0.0038	-0.0737	0.0812	1.5747	0.1870	-0.0046	0.0884	-0.0246	0.4728			
27	3.00	0.78	-0.0113	-0.0049	-0.0531	0.4336	4.6960	0.1821	-0.0041	0.0939	-0.0228	0.5155			
28	3.00	0.0	0.0292	-0.0043	-0.0280	-0.1472	-0.9579	0.2011	-0.0040	0.0908	-0.0201	0.4516			
29	2.99	-0.77	0.0492	-0.0046	-0.0029	-0.0945	-0.0591	0.1482	-0.0048	0.1032	-0.0327	0.6962			
30	2.99	-1.59	0.1266	-0.0038	0.0142	-0.0304	0.1120	0.1946	-0.0039	0.1019	-0.0203	0.5239			
31	3.01	-2.38	0.1594	-0.0028	0.0007	-0.0179	0.2554	0.2360	-0.0031	0.0890	-0.0131	0.3773			
32	2.99	-3.24	0.2116	-0.0030	0.0661	-0.0142	0.3124	0.1779	-0.0023	0.0942	-0.0129	0.5294			
33	2.99	-4.02	0.2132	-0.0004	0.0520	-0.0019	0.4317	0.1920	-0.0022	0.0966	-0.0117	0.5030			
34	3.01	-4.80	0.3172	0.0002	0.1085	0.0008	0.3420	0.1926	-0.0013	0.0929	-0.0070	0.4822			
35	2.99	-5.52	0.3844	0.0016	0.1330	0.0042	0.3460	0.1890	-0.0022	0.0939	-0.0116	0.4967			
36	3.01	-6.34	0.4551	0.0022	0.1505	0.0049	0.3315	0.1783	-0.0018	0.0945	-0.0101	0.5301			
37	3.02	-7.10	0.4661	0.0019	0.1867	0.0042	0.4006	0.2111	-0.0022	0.0887	-0.0104	0.4204			
38	3.00	-7.95	0.5052	0.0034	0.2070	0.0067	0.4098	0.1858	-0.0018	0.0903	-0.0077	0.4861			
39	3.01	-8.69	0.6436	0.0040	0.2162	0.0063	0.3359	0.1790	-0.0033	0.0946	-0.0184	0.5287			
40	3.01	-9.51	0.6482	0.0052	0.2446	0.0080	0.3773	0.1868	-0.0031	0.0892	-0.0169	0.4778			
41	3.01	-10.28	0.7138	0.0047	0.2598	0.0067	0.3640	0.2163	-0.0032	0.0840	-0.0150	0.3882			
42	3.01	-11.07	0.7385	0.0046	0.2859	0.0063	0.3871	0.1864	-0.0028	0.0919	-0.0150	0.4931			
43	3.01	-11.78	0.8280	0.0043	0.2568	0.0052	0.3609	0.1980	-0.0048	0.0894	-0.0243	0.4514			
44	3.01	-12.56	0.8724	0.0037	0.3221	0.0062	0.3692	0.1608	-0.0053	0.1031	-0.0330	0.6411			
45	3.03	-13.32	0.9001	0.0041	0.3418	0.0046	0.3798	0.1987	-0.0059	0.0937	-0.0297	0.4716			
46	3.02	-14.18	0.9998	0.0034	0.3902	0.0034	0.3517	0.1956	-0.0056	0.0910	-0.0289	0.4651			

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		165	1.01	1.7		0.0	82WDF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	3.05	-14.99	1.0094	0.0039	0.3683	0.0039	0.3649	0.2187	-0.0053	0.0847	-0.0245	0.3872	
48	3.03	-15.81	1.0723	0.0054	0.3733	0.0050	0.3481	0.1849	-0.0048	0.0952	-0.0260	0.5149	
49	3.04	-16.63	1.0773	0.0056	0.3458	0.0052	0.3674	0.1892	-0.0028	0.0917	-0.0148	0.4849	
50	3.06	-17.40	1.1062	0.0054	0.4079	0.0049	0.3687	0.1958	-0.0014	0.0907	-0.0074	0.4634	
51	3.04	-18.30	1.1640	0.0064	0.4136	0.0055	0.3253	0.1967	-0.0013	0.0911	-0.0069	0.4634	
52	3.07	-19.13	1.2460	0.0082	0.4134	0.0066	0.3318	0.1456	-0.0009	0.0936	-0.0062	0.6430	
53	3.08	-19.93	1.2140	0.0106	0.4221	0.0088	0.3477	0.1579	0.0005	0.0947	0.0035	0.5998	
54	3.04	-20.63	1.2198	0.0243	0.4053	0.0199	0.3323	0.1756	0.0001	0.0844	0.0006	0.4807	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.14	19.70	0.7572	-0.3452	-3.9905	7.7024	-0.1920	0.1437	-0.4559	
2	6.15	19.35	0.7613	-0.3189	-4.0621	7.8436	-0.2020	0.1345	-0.4189	
3	6.15	18.61	0.7623	-0.3583	-3.9415	7.7808	-0.1780	0.1195	-0.4700	
4	6.12	17.83	0.7457	-0.4551	-3.7965	7.6658	-0.1240	0.1291	-0.6102	
5	6.12	16.98	0.7616	-0.6033	-3.6819	7.5104	-0.0930	0.1115	-0.7921	
6	6.12	16.20	0.8230	-0.8662	-3.4434	7.2625	-0.1050	0.1274	-1.0525	
7	6.12	15.41	0.8690	-1.0716	-3.2158	6.9758	-0.0850	0.1447	-1.2332	
8	6.08	14.70	0.8229	-1.0611	-3.0848	6.7944	-0.0550	0.1400	-1.2894	
9	6.08	13.89	0.8824	-1.3273	-2.8687	6.4039	-0.0220	0.1418	-1.5042	
10	6.07	13.16	0.9078	-1.4559	-2.6679	6.0227	-0.0230	0.1491	-1.6038	
11	6.07	12.39	0.9091	-1.5737	-2.5659	5.7279	-0.0020	0.1405	-1.7311	
12	6.06	11.64	0.9142	-1.6688	-2.2914	5.3077	-0.0030	0.1574	-1.8255	
13	6.05	10.86	0.9357	-1.8099	-2.1315	4.9699	0.0130	0.1571	-1.9343	
14	6.05	10.05	0.9590	-1.9225	-2.0357	4.6978	0.0160	0.1596	-2.0047	
15	6.04	9.24	1.0000	-2.0749	-1.8441	4.3005	0.0220	0.1646	-2.0749	
16	6.06	8.46	1.0394	-2.1760	-1.7346	3.9742	0.0200	0.1668	-2.0936	
17	6.05	7.61	1.0341	-2.2736	-1.4271	3.4828	0.0220	0.1688	-2.1987	
18	6.04	6.82	1.0335	-2.3017	-1.3686	3.1899	0.0190	0.1698	-2.2272	
19	6.03	6.13	1.0467	-2.3562	-1.1830	2.8331	0.0210	0.1697	-2.2512	
20	6.04	5.25	1.0315	-2.4249	-0.9925	2.3213	0.0150	0.1756	-2.3509	
21	6.03	4.46	1.0734	-2.5143	-0.8724	2.0392	0.0090	0.1856	-2.3413	
22	6.04	3.65	1.0815	-2.5549	-0.7334	1.6587	0.0080	0.1981	-2.3625	
23	6.02	2.95	1.0901	-2.6009	-0.5445	1.2963	0.0070	0.1978	-2.3861	
24	6.01	2.19	1.0949	-2.6776	-0.4244	0.9752	0.0020	0.2067	-2.4457	
25	6.02	1.40	1.0840	-2.6484	-0.2967	0.6953	0.0060	0.2255	-2.4433	
26	6.01	0.67	1.0569	-2.6265	-0.2400	0.5149	0.0070	0.2331	-2.4851	
27	6.03	-0.10	1.0998	-2.7215	-0.0672	0.1861	0.0130	0.2477	-2.4746	
28	6.00	-0.84	1.0956	-2.7096	0.0020	-0.0228	0.0160	0.2393	-2.4733	
29	6.01	-1.64	1.0874	-2.6791	0.1661	-0.3115	0.0160	0.2344	-2.4639	
30	6.00	-2.46	1.0895	-2.6921	0.3085	-0.5698	0.0210	0.2395	-2.4710	
31	6.04	-3.24	1.0685	-2.5927	0.4644	-0.8482	0.0250	0.2372	-2.4266	
32	6.02	-4.05	1.0919	-2.5855	0.5519	-1.1486	0.0210	0.2383	-2.3679	
33	6.02	-4.87	1.0747	-2.5424	0.6594	-1.5028	0.0210	0.2346	-2.3658	
34	6.03	-5.57	1.0653	-2.5312	0.8287	-1.8361	0.0200	0.2386	-2.3762	
35	6.05	-6.43	1.0521	-2.4188	0.9984	-2.3216	0.0170	0.2386	-2.2991	
36	6.02	-7.18	1.0253	-2.3433	1.1009	-2.6191	0.0140	0.2372	-2.2855	
37	6.02	-7.95	1.0086	-2.2769	1.2353	-2.9503	0.0150	0.2382	-2.2575	
38	6.05	-8.75	0.9998	-2.1556	1.4400	-3.4148	0.0150	0.2378	-2.1561	
39	6.03	-9.44	1.0114	-2.1655	1.6527	-3.8296	0.0210	0.2412	-2.1401	
40	6.06	-10.34	0.9809	-2.0541	1.7836	-4.2258	0.0200	0.2395	-2.0942	
41	6.06	-11.07	0.9942	-2.0018	1.9221	-4.5818	0.0210	0.2374	-2.0135	
42	6.06	-11.83	0.9772	-1.9780	2.0731	-4.9581	0.0190	0.2319	-2.0242	
43	6.04	-12.59	0.9260	-1.7623	2.3110	-5.4901	0.0110	0.2273	-1.9032	
44	6.07	-13.37	0.8818	-1.6734	2.5689	-5.9111	0.0090	0.2136	-1.8978	
45	6.05	-14.22	0.8560	-1.5393	2.6647	-6.1622	0.0110	0.2024	-1.7983	
46	6.07	-15.04	0.7783	-1.3396	2.9170	-6.5825	0.0100	0.2003	-1.7212	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.66	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	6.07	-15.83	0.8005	-1.2837	3.0398	-6.8464	0.0130	0.1929	-1.6036		
48	6.07	-16.68	0.7156	-1.0048	3.2250	-7.1806	0.0340	0.1832	-1.4042		
49	6.10	-17.43	0.7082	-0.9295	3.4109	-7.4908	0.0590	0.1880	-1.3125		
50	6.08	-18.37	0.6565	-0.8001	3.5532	-7.5782	0.1030	0.1944	-1.2188		
51	6.11	-19.14	0.6961	-0.7336	3.7088	-7.5940	0.1440	0.1893	-1.0538		
52	6.10	-19.97	0.7601	-0.8122	3.8101	-7.4199	0.2600	0.1943	-1.0685		
53	6.08	-20.33	0.8009	-0.9733	3.8165	-6.9019	0.3110	0.2010	-1.2152		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX	IO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	LB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	6.14	19.70	-1.0017	0.0148	-0.3009	-0.0148	0.3004	0.0581	0.0297	-0.1162	0.5120	-2.0007
2	6.15	19.35	-0.9920	0.0139	-0.3044	-0.0140	0.3068	0.0673	0.0297	-0.1150	0.4412	-1.7084
3	6.15	18.61	-0.9774	0.0139	-0.2948	-0.0142	0.3067	0.0705	0.0298	-0.1173	0.4226	-1.6639
4	6.12	17.83	-0.9453	0.0144	-0.2888	-0.0152	0.3055	0.0576	0.0289	-0.1136	0.5016	-1.9723
5	6.12	16.96	-0.9159	0.0149	-0.2810	-0.0163	0.3068	0.0652	0.0287	-0.1176	0.4401	-1.8033
6	6.12	16.20	-0.9283	0.0114	-0.2680	-0.0123	0.2887	0.0888	0.0282	-0.1143	0.3181	-1.2873
7	6.12	15.41	-0.8465	0.0121	-0.2633	-0.0143	0.3110	0.0823	0.0274	-0.1154	0.3329	-1.4019
8	6.08	14.70	-0.8158	0.0118	-0.2560	-0.0145	0.3138	0.0761	0.0273	-0.1230	0.3593	-1.6168
9	6.08	13.89	-0.7537	0.0138	-0.2483	-0.0184	0.3295	0.0727	0.0268	-0.1208	0.3693	-1.6613
10	6.07	13.16	-0.7546	0.0152	-0.2302	-0.0202	0.3051	0.0720	0.0267	-0.1174	0.3715	-1.6307
11	6.07	12.39	-0.7053	0.0150	-0.2265	-0.0213	0.3212	0.0708	0.0267	-0.1245	0.3771	-1.7586
12	6.06	11.64	-0.6589	0.0147	-0.2152	-0.0224	0.3267	0.0546	0.0265	-0.1244	0.4862	-2.2785
13	6.05	10.86	-0.6227	0.0166	-0.2066	-0.0266	0.3318	0.0735	0.0264	-0.1312	0.3591	-1.7852
14	6.05	10.05	-0.5602	0.0180	-0.2010	-0.0322	0.3587	0.0584	0.0265	-0.1296	0.4537	-2.2199
15	6.04	9.24	-0.5253	0.0178	-0.1900	-0.0340	0.3618	0.0611	0.0264	-0.1296	0.4320	-2.1218
16	6.06	8.46	-0.4965	0.0184	-0.1780	-0.0371	0.3586	0.0611	0.0266	-0.1296	0.4353	-2.1218
17	6.05	7.61	-0.4502	0.0179	-0.1581	-0.0399	0.3512	0.0582	0.0268	-0.1292	0.4613	-2.2200
18	6.04	6.82	-0.4301	0.0186	-0.1476	-0.0432	0.3432	0.0383	0.0271	-0.1298	0.7074	-3.3900
19	6.03	6.13	-0.3563	0.0198	-0.1378	-0.0557	0.3868	0.0219	0.0274	-0.1336	1.2509	-6.1006
20	6.04	5.25	-0.3221	0.0184	-0.1199	-0.0573	0.3723	0.0257	0.0274	-0.1388	1.0679	-5.4022
21	6.03	4.46	-0.3107	0.0193	-0.1007	-0.0621	0.3242	0.0245	0.0272	-0.1394	1.1100	-5.6913
22	6.04	3.65	-0.2350	0.0182	-0.0912	-0.0776	0.3881	0.0187	0.0271	-0.1428	1.4489	-7.6400
23	6.02	2.95	-0.1824	0.0171	-0.0797	-0.0940	0.4368	0.0069	0.0271	-0.1437	3.9341	-20.8262
24	6.01	2.19	-0.1731	0.0162	-0.0566	-0.0939	0.3269	0.0086	0.0268	-0.1451	3.1215	-16.8761
25	6.02	1.40	-0.0860	0.0134	-0.0465	-0.1564	0.5414	-0.0265	0.0268	-0.1487	-1.0111	5.6125
26	6.01	0.67	-0.0904	0.0089	-0.0254	-0.0984	0.2812	-0.0430	0.0267	-0.1513	-0.6208	3.5193
27	6.03	-0.10	-0.0721	0.0014	-0.0009	-0.0201	0.0128	-0.0596	0.0266	-0.1553	-0.4462	2.6067
28	6.00	-0.84	0.0230	-0.0036	0.0022	-0.1565	0.0341	-0.0453	0.0265	-0.1584	-0.5860	3.4966
29	6.01	-1.64	0.0388	-0.0097	0.0262	-0.2512	0.6760	-0.0933	0.0265	-0.1594	-0.2845	1.7083
30	6.00	-2.46	0.0767	-0.0134	0.0416	-0.1753	0.5431	-0.1150	0.0260	-0.1615	-0.2265	1.4045
31	6.04	-3.24	0.1007	-0.0167	0.0625	-0.1663	0.6212	-0.1245	0.0257	-0.1651	-0.1984	1.2753
32	6.02	-4.05	0.1467	-0.0178	0.0755	-0.1217	0.5145	-0.0944	0.0250	-0.1733	-0.2648	1.8364
33	6.02	-4.87	0.2128	-0.0196	0.0887	-0.0921	0.4169	-0.1211	0.0243	-0.1777	-0.2010	1.4678
34	6.03	-5.57	0.2597	-0.0206	0.1019	-0.0795	0.3925	-0.1337	0.0230	-0.1834	-0.1724	1.3721
35	6.05	-6.43	0.2941	-0.0216	0.1221	-0.0734	0.4151	-0.1173	0.0214	-0.1975	-0.1824	1.6836
36	6.02	-7.18	0.3670	-0.0222	0.1286	-0.0605	0.3504	-0.1493	0.0196	-0.1986	-0.1326	1.3305
37	6.02	-7.95	0.3767	-0.0211	0.1458	-0.0560	0.3871	-0.1380	0.0187	-0.2120	-0.1358	1.5368
38	6.05	-8.75	0.4363	-0.0211	0.1640	-0.0483	0.3758	-0.1359	0.0167	-0.2224	-0.1232	1.6371
39	6.03	-9.49	0.4753	-0.0203	0.1768	-0.0427	0.3719	-0.1529	0.0157	-0.2296	-0.1030	1.5020
40	6.06	-10.34	0.5159	-0.0209	0.1851	-0.0406	0.3588	-0.1601	0.0145	-0.2411	-0.0906	1.5062
41	6.06	-11.07	0.5675	-0.0214	0.1923	-0.0377	0.3389	-0.1920	0.0138	-0.2441	-0.0719	1.2718
42	6.06	-11.83	0.6033	-0.0216	0.2050	-0.0358	0.3398	-0.1865	0.0126	-0.2506	-0.0675	1.3439
43	6.04	-12.59	0.6411	-0.0226	0.2205	-0.0352	0.3440	-0.1976	0.0115	-0.2600	-0.0584	1.3160
44	6.07	-13.37	0.6430	-0.0209	0.2317	-0.0325	0.3604	-0.2356	0.0101	-0.2653	-0.0431	1.1261
45	6.05	-14.22	0.7044	-0.0204	0.2315	-0.0290	0.3287	-0.2485	0.0098	-0.2653	-0.0345	0.9355
46	6.07	-15.04	0.7426	-0.0209	0.2458	-0.0281	0.3311	-0.3025	0.0088	-0.2775	-0.0291	0.9172

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED			
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	6.07	-15.83	0.7639	-0.0207	0.2557	-0.0272	0.3348	-0.2747	0.0067	-0.2860	-0.0318	1.0410		
48	6.07	-16.68	0.7824	-0.0213	0.2750	-0.0272	0.3515	-0.3263	0.0076	-0.2935	-0.0234	0.8994		
49	6.10	-17.43	0.8462	-0.0223	0.2785	-0.0264	0.3291	-0.3390	0.0071	-0.3039	-0.0211	0.8965		
50	6.08	-18.37	0.8947	-0.0226	0.2896	-0.0252	0.3237	-0.3606	0.0068	-0.3172	-0.0188	0.8797		
51	6.11	-19.14	0.8989	-0.0230	0.3030	-0.0256	0.3371	-0.3163	0.0055	-0.3183	-0.0175	1.0061		
52	6.10	-19.97	1.0040	-0.0192	0.3073	-0.0192	0.3060	-0.4531	0.0074	-0.3485	-0.0164	0.7692		
53	6.08	-20.33	0.9836	-0.0198	0.3142	-0.0202	0.3194	-0.3786	0.0069	-0.3373	-0.0183	0.8909		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.14	19.70	-1.1235	-0.0192	-0.4348	0.0171	0.3870	-0.2223	-0.0360	-0.0224	0.1621	0.1006
2	6.15	19.35	-1.1537	-0.0112	-0.4465	0.0097	0.3870	-0.1817	-0.0310	-0.0475	0.1706	0.2617
3	6.15	18.61	-1.1309	-0.0075	-0.4516	0.0067	0.3993	-0.2159	-0.0336	-0.0351	0.1556	0.1628
4	6.12	17.83	-1.1218	-0.0061	-0.4496	0.0054	0.4008	-0.1621	-0.0414	-0.0039	0.2557	0.0241
5	6.12	16.96	-1.1097	-0.0025	-0.4493	0.0023	0.4048	-0.1225	-0.0459	0.0131	0.3746	-0.1068
6	6.12	16.20	-1.0922	0.0023	-0.4463	-0.0021	0.4086	-0.1245	-0.0406	0.0011	0.3260	-0.0090
7	6.12	15.41	-1.0611	0.0044	-0.4386	-0.0042	0.4133	-0.0424	-0.0448	0.0164	1.0564	-0.3861
8	6.08	14.70	-1.0222	0.0050	-0.4285	-0.0049	0.4192	-0.0255	-0.0442	0.0339	1.7330	-1.3295
9	6.08	13.89	-1.0013	0.0042	-0.4106	-0.0042	0.4101	0.0552	-0.0457	0.0551	-0.8278	0.9981
10	6.07	13.16	-0.9217	0.0042	-0.4050	-0.0046	0.4394	0.0492	-0.0443	0.0640	-0.9013	1.3007
11	6.07	12.39	-0.8521	0.0028	-0.3862	-0.0033	0.4532	0.0659	-0.0433	0.0817	-0.6577	1.2407
12	6.06	11.64	-0.7999	0.0012	-0.3689	-0.0016	0.4612	0.1187	-0.0414	0.0789	-0.3487	0.6651
13	6.05	10.86	-0.7591	-0.0004	-0.3456	0.0006	0.4553	0.1489	-0.0404	0.0997	-0.2716	0.6697
14	6.05	10.05	-0.6953	-0.0002	-0.3310	0.0003	0.4760	0.2041	-0.0389	0.1017	-0.1906	0.4983
15	6.04	9.24	-0.6358	-0.0018	-0.3134	0.0028	0.4930	0.2265	-0.0359	0.1098	-0.1585	0.4846
16	6.06	8.46	-0.5758	-0.0023	-0.3004	0.0041	0.5218	0.2457	-0.0333	0.1149	-0.1355	0.4679
17	6.05	7.61	-0.5078	-0.0035	-0.2718	0.0069	0.5352	0.2742	-0.0294	0.1195	-0.1074	0.4361
18	6.04	6.82	-0.4727	-0.0047	-0.2463	0.0100	0.5210	0.2986	-0.0254	0.1266	-0.0852	0.4239
19	6.03	6.13	-0.4147	-0.0058	-0.2175	0.0140	0.5244	0.3106	-0.0202	0.1294	-0.0652	0.4166
20	6.04	5.25	-0.3330	-0.0069	-0.1564	0.0207	0.5896	0.3246	-0.0158	0.1331	-0.0479	0.4039
21	6.03	4.46	-0.2529	-0.0078	-0.1699	0.0310	0.6721	0.3393	-0.0138	0.1436	-0.0407	0.4231
22	6.04	3.65	-0.2018	-0.0077	-0.1424	0.0381	0.7059	0.3756	-0.0097	0.1400	-0.0258	0.3726
23	6.02	2.95	-0.1445	-0.0060	-0.1174	0.0419	0.8128	0.3357	-0.0078	0.1595	-0.0234	0.4750
24	6.01	2.19	-0.1176	-0.0047	-0.0845	0.0400	0.7184	0.4003	-0.0062	0.1513	-0.0156	0.3779
25	6.02	1.40	-0.0644	-0.0039	-0.0653	0.0613	1.0149	0.3816	-0.0053	0.1581	-0.0139	0.4142
26	6.01	0.67	0.0091	-0.0045	-0.0540	-0.0999	-5.9305	0.3870	-0.0041	0.1594	-0.0107	0.4117
27	6.03	-0.10	0.0505	-0.0046	-0.0246	-0.0911	-0.4866	0.3749	-0.0041	0.1705	-0.0109	0.4548
28	6.00	-0.84	0.0929	-0.0046	-0.0052	-0.0495	-0.0565	0.4658	-0.0035	0.1600	-0.0076	0.3435
29	6.01	-1.64	0.1427	-0.0031	0.0212	-0.0217	0.1489	0.4426	-0.0031	0.1644	-0.0071	0.3714
30	6.00	-2.46	0.1705	-0.0032	0.0431	-0.0188	0.2529	0.4433	-0.0040	0.1725	-0.0090	0.3891
31	6.04	-3.24	0.2254	-0.0025	0.0668	-0.0111	0.2954	0.4371	-0.0027	0.1759	-0.0063	0.4025
32	6.02	-4.05	0.2447	-0.0009	0.1114	-0.0039	0.4145	0.4107	-0.0023	0.1847	-0.0056	0.4496
33	6.02	-4.87	0.3333	0.0004	0.1145	0.0013	0.3446	0.4362	-0.0023	0.1762	-0.0054	0.4040
34	6.03	-5.57	0.3963	0.0021	0.1386	0.0054	0.3496	0.4774	-0.0024	0.1737	-0.0050	0.3638
35	6.05	-6.43	0.4424	0.0023	0.1722	0.0052	0.3693	0.4360	-0.0016	0.1763	-0.0041	0.4026
36	6.02	-7.18	0.5040	0.0026	0.1955	0.0053	0.3880	0.4681	-0.0022	0.1724	-0.0047	0.3682
37	6.02	-7.95	0.5488	0.0029	0.2201	0.0053	0.4010	0.4403	-0.0023	0.1816	-0.0052	0.4125
38	6.05	-8.75	0.6596	0.0024	0.2388	0.0036	0.3620	0.4713	-0.0041	0.1733	-0.0088	0.3678
39	6.03	-9.49	0.6708	0.0025	0.2681	0.0037	0.3997	0.4696	-0.0052	0.1795	-0.0111	0.3822
40	6.06	-10.34	0.7482	0.0019	0.2882	0.0026	0.3852	0.4699	-0.0044	0.1798	-0.0094	0.3826
41	6.06	-11.07	0.8183	0.0022	0.3047	0.0027	0.3724	0.4542	-0.0056	0.1913	-0.0124	0.4213
42	6.06	-11.83	0.8853	0.0021	0.3235	0.0024	0.3654	0.4759	-0.0059	0.1887	-0.0125	0.3965
43	6.04	-12.59	0.9392	0.0027	0.3449	0.0029	0.3672	0.4724	-0.0052	0.1806	-0.0110	0.3823
44	6.07	-13.37	0.9818	0.0026	0.3672	0.0027	0.3740	0.4566	-0.0059	0.1880	-0.0130	0.4118
45	6.05	-14.22	1.0337	0.0021	0.3799	0.0021	0.3676	0.4571	-0.0056	0.1819	-0.0122	0.3980
46	6.07	-15.04	1.0784	0.0031	0.4005	0.0029	0.3714	0.4477	-0.0055	0.1832	-0.0123	0.4091

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.66	1.01	1.7	0.0	B2NOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	6.07	-15.83	1.1462	0.0045	0.4070	0.0040	0.3551	0.4624	-0.0042	0.1851	-0.0092	0.4002
48	6.07	-16.68	1.1948	0.0095	0.4055	0.0079	0.3394	0.4591	-0.0033	0.1760	-0.0072	0.3833
49	6.10	-17.43	1.2043	0.0163	0.4082	0.0136	0.3389	0.4432	-0.0015	0.1786	-0.0034	0.4029
50	6.08	-18.37	1.1995	0.0271	0.3963	0.0226	0.3304	0.4364	0.0005	0.1778	0.0011	0.4074
51	6.11	-19.14	1.1927	0.0321	0.3704	0.0269	0.3106	0.4429	0.0008	0.1789	0.0019	0.4039
52	6.10	-19.97	1.0947	0.0410	0.3379	0.0374	0.3086	0.4522	0.0040	0.1766	0.0090	0.3949
53	6.08	-20.33	0.9592	0.0341	0.3016	0.0356	0.3145	0.4451	0.0042	0.1818	0.0095	0.4085

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	167	1.01 1.7	0.0	BZWF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.13	19.70	1.3366	-1.8863	-3.8494	6.9979	-0.1800	0.1006	-1.4112	
2	9.11	19.25	1.3891	-1.8678	-3.8968	7.0503	-0.1720	0.0923	-1.3446	
3	9.13	18.55	1.3659	-1.9273	-3.8761	7.1313	-0.1600	0.0684	-1.4110	
4	9.14	17.76	1.4337	-1.8952	-3.7600	7.1818	-0.1620	0.0871	-1.3219	
5	9.13	16.91	1.3838	-1.9923	-3.5814	6.9827	-0.1130	0.0830	-1.4397	
6	9.10	16.11	1.3491	-1.9788	-3.4809	6.8931	-0.0670	0.0802	-1.4667	
7	9.09	15.38	1.4204	-2.1926	-3.2567	6.6431	-0.0660	0.0913	-1.5436	
8	9.11	14.67	1.4436	-2.3850	-3.1394	6.4279	-0.0330	0.0933	-1.6521	
9	9.07	13.86	1.4589	-2.5614	-2.8927	6.0965	-0.0190	0.1028	-1.7557	
10	9.07	13.13	1.4875	-2.6684	-2.7634	5.8785	0.0050	0.1092	-1.7939	
11	9.09	12.34	1.5163	-2.8497	-2.5203	5.4671	0.0090	0.1135	-1.8794	
12	9.07	11.61	1.5218	-2.9804	-2.3950	5.1517	0.0140	0.1267	-1.9585	
13	9.08	10.82	1.5557	-3.1418	-2.1946	4.7982	0.0220	0.1261	-2.0196	
14	9.06	10.01	1.5865	-3.2939	-1.9740	4.3934	0.0160	0.1312	-2.0762	
15	9.06	9.20	1.5796	-3.3923	-1.8444	4.0206	0.0170	0.1430	-2.1476	
16	9.04	8.37	1.5825	-3.4263	-1.7666	3.8520	0.0230	0.1469	-2.1651	
17	9.05	7.58	1.5882	-3.5193	-1.4604	3.2774	0.0310	0.1516	-2.2159	
18	9.05	6.83	1.6302	-3.6811	-1.3575	2.9324	0.0240	0.1709	-2.2581	
19	9.03	5.98	1.6024	-3.6612	-1.1588	2.5983	0.0250	0.1698	-2.2848	
20	9.04	5.21	1.6445	-3.8371	-1.0082	2.1903	0.0130	0.1790	-2.3333	
21	9.03	4.38	1.6324	-3.8471	-0.8187	1.7681	0.0080	0.1828	-2.3568	
22	9.02	3.64	1.6447	-3.8843	-0.7311	1.4535	0.0060	0.1803	-2.3618	
23	9.01	2.87	1.6450	-3.9688	-0.5435	1.1039	0.0020	0.1835	-2.4126	
24	9.02	2.08	1.6397	-4.0183	-0.4290	0.8136	0.0040	0.1875	-2.4507	
25	9.03	1.32	1.6691	-4.0345	-0.3124	0.6083	0.0120	0.1972	-2.4202	
26	8.99	0.62	1.6480	-4.1129	-0.1912	0.3976	0.0140	0.2116	-2.4957	
27	9.01	-0.18	1.6789	-4.1552	-0.1502	0.2312	0.0160	0.2025	-2.4750	
28	8.99	-0.94	1.6395	-4.0570	-0.0050	0.0268	0.0170	0.2001	-2.4746	
29	9.00	-1.78	1.6730	-4.0789	0.0999	-0.1558	0.0180	0.2038	-2.4381	
30	9.00	-2.53	1.6752	-4.0540	0.3251	-0.4407	0.0230	0.1885	-2.4230	
31	9.01	-3.36	1.6557	-3.9857	0.3632	-0.6604	0.0290	0.1626	-2.4073	
32	9.02	-4.18	1.6431	-3.9591	0.4363	-0.9338	0.0280	0.1792	-2.4096	
33	9.00	-4.93	1.6355	-3.9815	0.6002	-1.3152	0.0300	0.1799	-2.4344	
34	9.03	-5.66	1.6366	-3.9740	0.7567	-1.6383	0.0210	0.1877	-2.4202	
35	9.00	-6.40	1.6710	-3.8598	0.9903	-2.1847	0.0170	0.1850	-2.3749	
36	9.02	-7.36	1.6468	-3.8703	1.1107	-2.5438	0.0120	0.1673	-2.3502	
37	9.03	-8.07	1.6094	-3.6810	1.2737	-2.9181	0.0130	0.1714	-2.2909	
38	9.04	-8.85	1.6118	-3.6873	1.4978	-3.2788	0.0130	0.1638	-2.2877	
39	9.05	-9.67	1.5883	-3.5174	1.6066	-3.7720	0.0230	0.2009	-2.2146	
40	9.05	-10.43	1.5671	-3.4178	1.8052	-4.0660	0.0290	0.2113	-2.1810	
41	9.05	-11.19	1.5682	-3.2723	1.9544	-4.4600	0.0480	0.2222	-2.0867	
42	9.08	-11.98	1.5593	-3.1029	2.1352	-4.8051	0.0650	0.2349	-1.9899	
43	9.07	-12.66	1.5724	-3.0112	2.2582	-5.1292	0.0850	0.2341	-1.9151	
44	9.08	-13.49	1.5532	-2.9136	2.4954	-5.5223	0.0860	0.2302	-1.8757	
45	9.08	-14.33	1.5235	-2.7868	2.5829	-5.8377	0.0990	0.2275	-1.8292	
46	9.10	-15.16	1.4769	-2.6366	2.8406	-6.1646	0.0900	0.2249	-1.7852	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.67	1.01	1.7	0.0	82WDF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	9.10	-15.95	1.4350	-2.4870	3.0312	-6.5124	0.0770	0.2144	-1.7331		
48	9.11	-16.81	1.4231	-2.3333	3.1664	-6.7936	0.1190	0.2155	-1.6396		
49	9.12	-17.59	1.4294	-2.2701	3.3295	-6.9979	0.1410	0.2065	-1.5882		
50	9.12	-18.41	1.3607	-2.0320	3.5126	-7.1744	0.1400	0.2069	-1.4933		
51	9.12	-19.24	1.3660	-2.0534	3.6490	-7.0654	0.1790	0.2094	-1.5032		
52	9.13	-20.01	1.4156	-1.9949	3.7244	-6.7450	0.2940	0.2251	-1.4092		
53	9.14	-20.49	1.4650	-1.9830	3.8160	-6.5582	0.3500	0.2330	-1.3536		

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MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.01	1.7	0.0	BZW012	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.13	19.70	-0.8984	0.0208	-0.2762	-0.0232	0.3074	0.2708	0.0286	-0.0473	0.1058	-0.1745
2	9.11	19.25	-0.8908	0.0227	-0.2685	-0.0255	0.3019	0.2923	0.0282	-0.0481	0.0966	-0.1644
3	9.13	18.55	-0.8565	0.0218	-0.2765	-0.0254	0.3228	0.2776	0.0286	-0.0482	0.1032	-0.1734
4	9.14	17.76	-0.8451	0.0215	-0.2705	-0.0254	0.3201	0.2896	0.0286	-0.0482	0.0987	-0.1663
5	9.13	16.91	-0.8420	0.0242	-0.2484	-0.0287	0.2950	0.3100	0.0281	-0.0493	0.0908	-0.1589
6	9.10	16.11	-0.7615	0.0253	-0.2517	-0.0332	0.3306	0.2967	0.0281	-0.0527	0.0947	-0.1776
7	9.09	15.38	-0.7489	0.0265	-0.2392	-0.0354	0.3195	0.3000	0.0281	-0.0510	0.0936	-0.1700
8	9.11	14.67	-0.7495	0.0270	-0.2204	-0.0360	0.2941	0.2778	0.0280	-0.0495	0.1007	-0.1781
9	9.07	13.86	-0.6491	0.0270	-0.2270	-0.0416	0.3497	0.2694	0.0277	-0.0521	0.1028	-0.1935
10	9.07	13.13	-0.6272	0.0289	-0.2129	-0.0461	0.3394	0.2853	0.0279	-0.0553	0.0977	-0.1938
11	9.09	12.34	-0.5775	0.0306	-0.2021	-0.0531	0.3500	0.2846	0.0274	-0.0552	0.0964	-0.1940
12	9.07	11.61	-0.5658	0.0316	-0.1911	-0.0559	0.3378	0.2858	0.0274	-0.0591	0.0960	-0.2068
13	9.08	10.82	-0.5216	0.0324	-0.1790	-0.0622	0.3432	0.2652	0.0271	-0.0590	0.1022	-0.2226
14	9.06	10.01	-0.4765	0.0327	-0.1756	-0.0687	0.3685	0.2858	0.0270	-0.0640	0.0946	-0.2240
15	9.06	9.20	-0.4345	0.0336	-0.1641	-0.0773	0.3776	0.2736	0.0270	-0.0674	0.0987	-0.2465
16	9.04	8.37	-0.4075	0.0338	-0.1517	-0.0830	0.3722	0.2596	0.0268	-0.0680	0.1032	-0.2619
17	9.05	7.58	-0.3498	0.0342	-0.1361	-0.1036	0.4126	0.2544	0.0264	-0.0701	0.1038	-0.2757
18	9.05	6.83	-0.3374	0.0343	-0.1208	-0.1016	0.3581	0.2722	0.0263	-0.0730	0.0966	-0.2682
19	9.03	5.98	-0.2558	0.0349	-0.1166	-0.1366	0.4560	0.2437	0.0263	-0.0762	0.1081	-0.3127
20	9.04	5.21	-0.2163	0.0359	-0.1034	-0.1659	0.4779	0.2630	0.0263	-0.0806	0.1002	-0.3067
21	9.03	4.38	-0.2037	0.0345	-0.0920	-0.1696	0.4515	0.2133	0.0267	-0.0806	0.1254	-0.3780
22	9.02	3.64	-0.1313	0.0352	-0.0850	-0.2680	0.6478	0.1795	0.0272	-0.0840	0.1518	-0.4679
23	9.01	2.87	-0.1257	0.0337	-0.0602	-0.2681	0.4788	0.1735	0.0272	-0.0863	0.1570	-0.4973
24	9.02	2.08	-0.1072	0.0278	-0.0476	-0.2593	0.4386	0.1519	0.0270	-0.0899	0.1780	-0.5917
25	9.03	1.32	-0.0806	0.0180	-0.0277	-0.2233	0.3431	0.1299	0.0273	-0.0943	0.2105	-0.7261
26	8.99	0.62	-0.0271	0.0089	-0.0194	-0.3284	0.7170	0.1120	0.0275	-0.0976	0.2455	-0.8712
27	9.01	-0.18	-0.0454	0.0015	-0.0042	-0.0341	0.0931	0.1144	0.0276	-0.1068	0.2417	-0.9334
28	8.99	-0.94	0.0068	-0.0046	-0.0020	-0.6837	-0.2991	0.0762	0.0276	-0.1133	0.3621	-1.4870
29	9.00	-1.78	0.0096	-0.0133	0.0152	-1.3904	1.5832	0.0689	0.0276	-0.1227	0.4012	-1.7814
30	9.00	-2.53	0.0373	-0.0221	0.0339	-0.5937	0.9096	0.0519	0.0271	-0.1265	0.5221	-2.4375
31	9.01	-3.36	0.0469	-0.0300	0.0533	-0.6395	1.1371	0.0330	0.0266	-0.1344	0.8059	-4.0728
32	9.02	-4.18	0.1129	-0.0340	0.0579	-0.3011	0.5130	0.0095	0.0263	-0.1394	2.7732	-14.6773
33	9.00	-4.93	0.1428	-0.0349	0.0797	-0.2444	0.5580	0.0083	0.0259	-0.1472	3.1259	-17.7391
34	9.03	-5.66	0.1719	-0.0347	0.0893	-0.2018	0.5194	0.0242	0.0250	-0.1557	1.0329	-6.4354
35	9.00	-6.48	0.2515	-0.0338	0.0962	-0.1346	0.3825	0.0235	0.0238	-0.1650	1.0147	-7.0242
36	9.02	-7.36	0.2563	-0.0333	0.1120	-0.1301	0.4370	0.0269	0.0228	-0.1735	0.8493	-6.4512
37	9.03	-8.07	0.3069	-0.0326	0.1298	-0.1062	0.4228	0.0126	0.0210	-0.1833	1.6664	-14.5477
38	9.04	-8.85	0.3445	-0.0316	0.1390	-0.0918	0.4034	-0.0092	0.0197	-0.1903	-2.1409	20.6919
39	9.05	-9.67	0.3932	-0.0326	0.1554	-0.0830	0.3953	-0.0359	0.0180	-0.2017	-0.5013	5.6201
40	9.05	-10.43	0.4483	-0.0325	0.1684	-0.0726	0.3756	-0.0403	0.0168	-0.2131	-0.4168	5.2885
41	9.05	-11.19	0.4745	-0.0312	0.1828	-0.0658	0.3853	-0.0860	0.0157	-0.2267	-0.1831	2.6367
42	9.08	-11.98	0.5588	-0.0307	0.1508	-0.0549	0.3414	-0.1311	0.0149	-0.2380	-0.1136	1.8161
43	9.07	-12.66	0.5633	-0.0307	0.2125	-0.0545	0.3772	-0.1654	0.0145	-0.2480	-0.0880	1.4995
44	9.08	-13.49	0.6240	-0.0306	0.2185	-0.0441	0.3502	-0.1636	0.0136	-0.2581	-0.0831	1.5777
45	9.08	-14.33	0.6240	-0.0295	0.2282	-0.0470	0.3633	-0.1903	0.0129	-0.2682	-0.0678	1.4094
46	9.10	-15.16	0.6911	-0.0306	0.2323	-0.0443	0.3361	-0.1954	0.0118	-0.2689	-0.0606	1.3762

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		167		1.01 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	9.10	-15.95	0.6760	-0.0289	0.2470	-0.0427	0.3655	-0.1997	0.0116	-0.2778	-0.0583	1.3913	
48	9.11	-16.81	0.7668	-0.0270	0.2550	-0.0352	0.3326	-0.2658	0.0114	-0.2936	-0.0431	1.1048	
49	9.12	-17.59	0.8096	-0.0262	0.2558	-0.0324	0.3159	-0.2698	0.0112	-0.3022	-0.0415	1.1205	
50	9.12	-18.41	0.8052	-0.0253	0.2702	-0.0315	0.3356	-0.2743	0.0108	-0.2948	-0.0394	1.0737	
51	9.12	-19.24	0.8949	-0.0246	0.2720	-0.0275	0.3039	-0.2615	0.0085	-0.3056	-0.0325	1.1688	
52	9.13	-20.01	0.9192	-0.0249	0.2864	-0.0271	0.3116	-0.3257	0.0097	-0.3156	-0.0298	0.9689	
53	9.14	-20.49	0.9256	-0.0258	0.2978	-0.0279	0.3218	-0.3584	0.0115	-0.3238	-0.0322	0.9034	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACT	FX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	167	1.01	1.7	0.0	B240F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	9.13	19.70	-1.1353	-0.0262	-0.4077	0.0231	0.3591	0.0549	-0.0440	0.0442	-0.8013	0.8050
2	9.11	19.25	-1.1017	-0.0263	-0.4086	0.0239	0.3709	-0.0077	-0.0435	0.0628	5.6483	-8.1603
3	9.13	18.55	-1.1136	-0.0239	-0.4279	0.0215	0.3842	0.0030	-0.0452	0.0505	-15.0640	16.8332
4	9.14	17.76	-1.1648	-0.0137	-0.4392	0.0118	0.3771	-0.0314	-0.0343	0.0309	1.0938	-0.9853
5	9.13	16.91	-1.1262	-0.0086	-0.4515	0.0076	0.4009	0.0246	-0.0382	0.0594	-1.5546	2.4145
6	9.10	16.11	-1.1931	-0.0042	-0.4406	0.0036	0.3789	0.0665	-0.0401	0.0676	-0.6037	1.0174
7	9.09	15.38	-1.0835	0.0006	-0.4479	-0.0006	0.4134	0.0873	-0.0394	0.0725	-0.4518	0.8304
8	9.11	14.67	-1.0735	0.0025	-0.4402	-0.0023	0.4101	0.1155	-0.0425	0.0951	-0.3679	0.8233
9	9.07	13.86	-1.0145	0.0034	-0.4246	-0.0034	0.4186	0.1767	-0.0425	0.0953	-0.2408	0.5392
10	9.07	13.13	-0.9744	0.0030	-0.4159	-0.0031	0.4268	0.2264	-0.0439	0.1075	-0.1941	0.4750
11	9.09	12.34	-0.8751	0.0016	-0.4028	-0.0019	0.4603	0.2345	-0.0437	0.1318	-0.1865	0.5622
12	9.07	11.61	-0.8349	0.0012	-0.3822	-0.0014	0.4578	0.2590	-0.0417	0.1349	-0.1610	0.5209
13	9.08	10.82	-0.8042	-0.0009	-0.3617	0.0011	0.4498	0.3075	-0.0403	0.1432	-0.1310	0.4655
14	9.06	10.01	-0.7432	-0.0015	-0.3434	0.0021	0.4621	0.3516	-0.0374	0.1402	-0.1065	0.3586
15	9.06	9.20	-0.6590	-0.0028	-0.3225	0.0043	0.4893	0.3379	-0.0352	0.1611	-0.1043	0.4767
16	9.04	8.37	-0.6283	-0.0025	-0.3048	0.0041	0.4852	0.3915	-0.0323	0.1582	-0.0825	0.4040
17	9.05	7.58	-0.5693	-0.0038	-0.2699	0.0068	0.4741	0.3993	-0.0277	0.1691	-0.0693	0.4233
18	9.05	6.83	-0.4568	-0.0041	-0.2610	0.0091	0.5713	0.4424	-0.0249	0.1736	-0.0564	0.3924
19	9.03	5.98	-0.4198	-0.0049	-0.2298	0.0118	0.5473	0.4602	-0.0199	0.1782	-0.0433	0.3673
20	9.04	5.21	-0.3187	-0.0041	-0.2022	0.0129	0.6343	0.4688	-0.0159	0.1889	-0.0340	0.4021
21	9.03	4.38	-0.2617	-0.0048	-0.1715	0.0105	0.6553	0.4986	-0.0133	0.1898	-0.0268	0.3807
22	9.02	3.64	-0.2005	-0.0048	-0.1467	0.0242	0.7317	0.5212	-0.0104	0.1920	-0.0200	0.3683
23	9.01	2.87	-0.1469	-0.0050	-0.1184	0.0344	0.8063	0.5571	-0.0086	0.1952	-0.0154	0.3504
24	9.02	2.08	-0.0665	-0.0048	-0.0917	0.0722	1.4099	0.5899	-0.0075	0.1958	-0.0127	0.3319
25	9.03	1.32	-0.0305	-0.0043	-0.0707	0.1426	2.3168	0.5769	-0.0061	0.2064	-0.0106	0.3578
26	8.99	0.62	0.0155	-0.0045	-0.0474	-0.2935	-3.0603	0.5796	-0.0057	0.2212	-0.0098	0.3817
27	9.01	-0.18	0.0507	-0.0052	-0.0226	-0.1025	-0.4459	0.6010	-0.0055	0.2324	-0.0092	0.3866
28	8.99	-0.94	0.0679	-0.0052	0.0038	-0.0773	0.0563	0.6319	-0.0049	0.2279	-0.0078	0.3606
29	9.00	-1.78	0.1365	-0.0040	0.0315	-0.0293	0.2307	0.6050	-0.0056	0.2456	-0.0093	0.4059
30	9.00	-2.53	0.1583	-0.0037	0.0558	-0.0234	0.3528	0.6533	-0.0045	0.2407	-0.0070	0.3684
31	9.01	-3.36	0.2283	-0.0017	0.0731	-0.0077	0.3201	0.6650	-0.0058	0.2469	-0.0088	0.3713
32	9.02	-4.18	0.2960	0.0000	0.0994	0.0002	0.3359	0.6684	-0.0051	0.2502	-0.0077	0.3744
33	9.00	-4.93	0.3676	0.0000	0.1284	0.0001	0.3493	0.6784	-0.0047	0.2550	-0.0069	0.3760
34	9.03	-5.66	0.4170	0.0014	0.1527	0.0034	0.3661	0.7167	-0.0053	0.2516	-0.0074	0.3511
35	9.00	-6.48	0.4997	0.0015	0.1812	0.0031	0.3626	0.6961	-0.0073	0.2594	-0.0105	0.3727
36	9.02	-7.36	0.5714	0.0008	0.2101	0.0014	0.3677	0.7298	-0.0063	0.2563	-0.0086	0.3512
37	9.03	-8.07	0.6312	0.0021	0.2297	0.0034	0.3639	0.6828	-0.0062	0.2658	-0.0091	0.3893
38	9.04	-8.85	0.6764	0.0028	0.2545	0.0041	0.3768	0.7236	-0.0053	0.2574	-0.0073	0.3557
39	9.05	-9.67	0.7478	0.0032	0.2842	0.0043	0.3808	0.7091	-0.0053	0.2686	-0.0075	0.3788
40	9.05	-10.43	0.8119	0.0028	0.3069	0.0035	0.3780	0.7305	-0.0046	0.2677	-0.0064	0.3665
41	9.05	-11.19	0.8273	0.0019	0.3297	0.0024	0.3985	0.7066	-0.0052	0.2741	-0.0074	0.3880
42	9.08	-11.98	0.9295	0.0015	0.3376	0.0017	0.3632	0.7387	-0.0047	0.2685	-0.0064	0.3635
43	9.07	-12.66	0.9944	0.0014	0.3564	0.0014	0.3584	0.7458	-0.0034	0.2733	-0.0046	0.3665
44	9.08	-13.49	1.0310	0.0015	0.3768	0.0015	0.3655	0.7073	-0.0039	0.2720	-0.0056	0.3845
45	9.08	-14.33	1.0655	0.0019	0.3922	0.0018	0.3681	0.7419	-0.0039	0.2683	-0.0053	0.3617
46	9.10	-15.16	1.1291	0.0032	0.4094	0.0028	0.3626	0.7463	-0.0041	0.2664	-0.0056	0.3569

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNF3	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.67	1.01	1.7		0.0	0.220F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	9.10	-15.95	1.1740	0.0038	0.4220	0.0052	0.3594	0.7634	-0.0042	0.2619	-0.0056	0.3430	
48	9.11	-16.81	1.1985	0.0067	0.4263	0.0056	0.3557	0.7194	-0.0027	0.2728	-0.0038	0.3792	
49	9.12	-17.59	1.2520	0.0125	0.4268	0.0100	0.3409	0.7461	-0.0014	0.2658	-0.0019	0.3563	
50	9.12	-18.41	1.2567	0.0192	0.4212	0.0153	0.3352	0.7264	-0.0029	0.2653	-0.0040	0.3653	
51	9.12	-19.24	1.2424	0.0295	0.3931	0.0237	0.3164	0.7714	-0.0009	0.2628	-0.0012	0.3407	
52	9.13	-20.01	1.1679	0.0356	0.3487	0.0305	0.2985	0.7614	-0.0004	0.2642	-0.0005	0.3470	
53	9.14	-20.49	1.1197	0.0336	0.3271	0.0300	0.2921	0.7291	0.0012	0.2677	0.0016	0.3672	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.68	1.01	1.7	0.0	BZWF12	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	12.22	19.46	2.2142	-2.7209	-3.9930	6.0871	-0.2160	0.1486	-1.2289	
2	12.22	19.19	2.1471	-2.8140	-3.9242	6.1678	-0.1810	0.1354	-1.3106	
3	12.20	18.43	2.1486	-2.7961	-3.7971	6.0148	-0.1810	0.1444	-1.3013	
4	12.18	17.59	2.0732	-2.6476	-3.7639	6.1544	-0.1410	0.1309	-1.2770	
5	12.18	16.84	2.0793	-2.8681	-3.6357	6.1379	-0.1280	0.1245	-1.3793	
6	12.18	16.02	2.0567	-2.9254	-3.4188	5.5531	-0.0820	0.1236	-1.4224	
7	12.16	15.27	2.1246	-3.2234	-3.1995	5.8011	-0.0500	0.1277	-1.5172	
8	12.15	14.58	2.0410	-3.3644	-3.0758	5.7289	-0.0100	0.1273	-1.6484	
9	12.15	13.75	2.1201	-3.6481	-2.8547	5.4534	0.0170	0.1313	-1.7207	
10	12.12	12.99	2.0919	-3.8466	-2.7248	5.1756	0.0250	0.1372	-1.8388	
11	12.09	12.20	2.1258	-4.0140	-2.5457	4.9058	0.0380	0.1294	-1.8882	
12	12.10	11.50	2.1412	-4.1955	-2.3379	4.5809	0.0860	0.1504	-1.9594	
13	12.09	10.65	2.1756	-4.3357	-2.1958	4.3430	0.0700	0.1461	-1.9929	
14	12.08	9.92	2.2102	-4.4781	-1.9000	3.8288	0.0540	0.1470	-2.0261	
15	12.08	9.09	2.1711	-4.5644	-1.7519	3.4855	0.0620	0.1551	-2.1023	
16	12.06	8.29	2.2102	-4.7081	-1.6136	3.1149	0.0600	0.1656	-2.1301	
17	12.06	7.45	2.2206	-4.8046	-1.4108	2.7600	0.0610	0.1634	-2.1637	
18	12.07	6.68	2.2291	-4.8795	-1.2769	2.3586	0.0620	0.1751	-2.1890	
19	12.08	5.88	2.2236	-4.9638	-1.0186	2.0419	0.0510	0.1754	-2.2323	
20	12.06	5.08	2.2795	-5.1320	-0.9266	1.5932	0.0430	0.1752	-2.2514	
21	12.02	4.25	2.2609	-5.1500	-0.8066	1.3882	0.0290	0.1743	-2.2779	
22	12.04	3.48	2.2733	-5.2034	-0.6275	1.0225	0.0300	0.1769	-2.2889	
23	12.02	2.73	2.2403	-5.1892	-0.4494	0.7632	0.0160	0.1811	-2.3163	
24	12.05	2.00	2.2571	-5.2257	-0.3823	0.5162	0.0230	0.1889	-2.3152	
25	12.02	1.17	2.2629	-5.2138	-0.2430	0.4031	0.0290	0.2057	-2.3040	
26	12.05	0.46	2.2335	-5.2076	-0.2199	0.3590	0.0240	0.2012	-2.3316	
27	12.01	-0.30	2.2478	-5.2517	-0.0560	0.2034	0.0140	0.2137	-2.3363	
28	12.04	-1.04	2.2545	-5.1990	0.0829	0.0209	0.0130	0.2174	-2.3061	
29	12.03	-1.88	2.2466	-5.1930	0.1206	-0.0448	0.0050	0.2169	-2.3115	
30	12.04	-2.69	2.2846	-5.2792	0.1841	-0.1607	0.0300	0.2147	-2.3108	
31	12.02	-3.53	2.2655	-5.2004	0.3474	-0.4453	0.0300	0.1998	-2.2955	
32	12.03	-4.27	2.2150	-5.1757	0.4939	-0.6995	0.0110	0.1950	-2.3367	
33	12.03	-5.11	2.2283	-5.1744	0.6820	-1.0308	-0.0090	0.2020	-2.3221	
34	12.02	-5.82	2.2183	-5.0734	0.7846	-1.3714	-0.0310	0.2136	-2.2870	
35	12.04	-6.63	2.2199	-5.0246	0.9010	-1.7573	-0.0210	0.2154	-2.2634	
36	12.04	-7.38	2.2054	-4.9783	1.1251	-2.0610	-0.0360	0.2231	-2.2573	
37	12.03	-8.22	2.1867	-4.8692	1.2603	-2.4024	-0.0200	0.2166	-2.2267	
38	12.04	-8.97	2.1894	-4.7320	1.3886	-2.7710	-0.0090	0.2070	-2.1613	
39	12.05	-9.82	2.2234	-4.6796	1.6359	-3.2201	-0.0150	0.2041	-2.1047	
40	12.09	-10.55	2.1466	-4.5221	1.8195	-3.5951	-0.0090	0.2050	-2.1066	
41	12.06	-11.30	2.1388	-4.3612	1.9521	-3.8798	0.0	0.2076	-2.0391	
42	12.09	-12.08	2.1539	-4.2073	2.1436	-4.3239	0.0240	0.2026	-1.9533	
43	12.10	-12.88	2.1515	-4.0540	2.2763	-4.6126	0.0510	0.2066	-1.8842	
44	12.10	-13.62	2.1594	-4.0400	2.4290	-4.9138	0.0810	0.2107	-1.8709	
45	12.12	-14.46	2.1969	-3.9636	2.6954	-5.3304	0.1250	0.1947	-1.8041	
46	12.12	-15.31	2.2400	-3.8679	2.7313	-5.6106	0.1730	0.2056	-1.7267	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	168	1.01	1.7	0.0	0.26	0.12	0.0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP		
47	12.13	-16.12	2.1715	-3.7830	2.9566	-6.1340	0.1860	0.1854	-1.7421		
48	12.12	-16.90	2.1216	-3.8832	3.0915	-6.3034	0.1670	0.1695	-1.7360		
49	12.11	-17.71	2.0828	-3.4319	3.3262	-6.4444	0.1700	0.1707	-1.6477		
50	12.14	-18.59	2.1100	-3.4590	3.5365	-6.4480	0.2020	0.1669	-1.6393		
51	12.15	-19.39	2.0871	-3.3439	3.6052	-6.2542	0.2550	0.1795	-1.6022		
52	12.15	-20.15	2.1320	-3.1828	3.7568	-5.7745	0.3360	0.1884	-1.4929		
53	12.15	-20.92	2.2475	-3.3855	3.8371	-5.2829	0.4359	0.1958	-1.5063		
54	12.18	-20.92	2.2744	-3.3341	4.0339	-5.3015	0.4399	0.1994	-1.4659		

MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART MACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
		6	168	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XLPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	12.22	19.46	-0.7041	0.0416	-0.2291	-0.0591	0.3254	0.5381	0.0263	0.0186	0.0490	0.0346	
2	12.22	19.19	-0.7062	0.0407	-0.2273	-0.0577	0.3219	0.5163	0.0264	0.0197	0.0511	0.0381	
3	12.20	18.43	-0.6563	0.0408	-0.2301	-0.0621	0.3506	0.5147	0.0264	0.0206	0.0513	0.0401	
4	12.18	17.59	-0.6551	0.0414	-0.2163	-0.0633	0.3302	0.5288	0.0260	0.0181	0.0492	0.0343	
5	12.18	16.84	-0.6254	0.0412	-0.2141	-0.0659	0.3423	0.5247	0.0260	0.0173	0.0495	0.0329	
6	12.18	16.02	-0.5998	0.0419	-0.2074	-0.0699	0.3457	0.5085	0.0260	0.0148	0.0511	0.0290	
7	12.16	15.27	-0.5372	0.0426	-0.1974	-0.0794	0.3675	0.5268	0.0258	0.0139	0.0490	0.0263	
8	12.15	14.58	-0.5050	0.0441	-0.1931	-0.0874	0.3823	0.5191	0.0256	0.0132	0.0494	0.0254	
9	12.15	13.75	-0.4907	0.0442	-0.1842	-0.0901	0.3754	0.5190	0.0255	0.0078	0.0492	0.0150	
10	12.12	12.99	-0.4472	0.0441	-0.1752	-0.0986	0.3918	0.5114	0.0251	0.0091	0.0492	0.0179	
11	12.09	12.20	-0.4173	0.0441	-0.1656	-0.1056	0.3967	0.5060	0.0256	0.0074	0.0507	0.0147	
12	12.10	11.50	-0.3376	0.0422	-0.1538	-0.1251	0.4555	0.4869	0.0252	-0.0001	0.0517	-0.0003	
13	12.09	10.65	-0.3453	0.0423	-0.1409	-0.1224	0.4079	0.4854	0.0249	0.0024	0.0514	0.0049	
14	12.08	9.92	-0.3324	0.0427	-0.1344	-0.1284	0.4042	0.4875	0.0252	-0.0016	0.0518	-0.0033	
15	12.08	9.09	-0.2905	0.0421	-0.1233	-0.1448	0.4244	0.4728	0.0249	-0.0041	0.0528	-0.0087	
16	12.06	8.29	-0.2158	0.0414	-0.1195	-0.1920	0.5338	0.4740	0.0249	-0.0074	0.0525	-0.0157	
17	12.06	7.45	-0.1942	0.0411	-0.1040	-0.2119	0.5356	0.4723	0.0245	-0.0133	0.0520	-0.0281	
18	12.07	6.68	-0.1515	0.0411	-0.0865	-0.2716	0.5708	0.4677	0.0244	-0.0167	0.0523	-0.0357	
19	12.08	5.88	-0.0970	0.0415	-0.0813	-0.4283	0.8384	0.4325	0.0244	-0.0157	0.0564	-0.0364	
20	12.06	5.08	-0.0677	0.0444	-0.0669	-0.6557	0.9890	0.4472	0.0246	-0.0197	0.0550	-0.0442	
21	12.02	4.25	-0.0617	0.0474	-0.0577	-0.7681	0.9361	0.4345	0.0247	-0.0255	0.0569	-0.0586	
22	12.04	3.48	-0.0210	0.0487	-0.0502	-2.3186	2.3904	0.4173	0.0249	-0.0282	0.0598	-0.0676	
23	12.02	2.73	-0.0094	0.0454	-0.0398	-4.8289	4.2375	0.3999	0.0252	-0.0349	0.0630	-0.0873	
24	12.05	2.00	-0.0156	0.0344	-0.0163	-2.2047	1.0448	0.3820	0.0255	-0.0412	0.0669	-0.1078	
25	12.02	1.17	0.0232	0.0201	-0.0120	0.8662	-0.5159	0.3316	0.0263	-0.0492	0.0794	-0.1482	
26	12.05	0.46	-0.0046	0.0096	-0.0038	-2.0866	0.8332	0.3185	0.0266	-0.0580	0.0835	-0.1822	
27	12.01	-0.30	-0.0308	0.0012	-0.0027	-0.0390	0.0865	0.2895	0.0271	-0.0624	0.0937	-0.2155	
28	12.04	-1.04	-0.0369	-0.0070	0.0042	0.1897	-0.1139	0.2674	0.0270	-0.0746	0.1010	-0.2790	
29	12.03	-1.88	-0.0643	-0.0186	0.0099	0.2892	-0.1536	0.2408	0.0271	-0.0808	0.1127	-0.3358	
30	12.04	-2.69	-0.0242	-0.0326	0.0291	1.3489	-1.2040	0.2435	0.0265	-0.0909	0.1088	-0.3736	
31	12.02	-3.53	-0.0072	-0.0434	0.0422	6.0267	-5.8612	0.2335	0.0258	-0.1043	0.1105	-0.4467	
32	12.03	-4.27	-0.0223	-0.0477	0.0452	2.1409	-2.0255	0.1901	0.0257	-0.1070	0.1352	-0.5632	
33	12.03	-5.11	-0.0200	-0.0462	0.0535	2.3096	-2.0768	0.1920	0.0250	-0.1141	0.1304	-0.5944	
34	12.02	-5.82	0.0697	-0.0426	0.0440	-0.6111	0.6316	0.2036	0.0245	-0.1204	0.1203	-0.5916	
35	12.04	-6.63	0.0621	-0.0402	0.0712	-0.6472	1.1464	0.1760	0.0232	-0.1221	0.1321	-0.6941	
36	12.04	-7.38	0.1029	-0.0404	0.0789	-0.3930	0.7666	0.2019	0.0220	-0.1336	0.1092	-0.6618	
37	12.03	-8.22	0.1502	-0.0407	0.1046	-0.2709	0.6967	0.1808	0.0200	-0.1438	0.1106	-0.7957	
38	12.04	-8.97	0.2188	-0.0421	0.1149	-0.1924	0.5252	0.1645	0.0186	-0.1582	0.1130	-0.9616	
39	12.05	-9.82	0.2249	-0.0429	0.1258	-0.1909	0.5595	0.1245	0.0173	-0.1576	0.1393	-1.2660	
40	12.05	-10.55	0.3111	-0.0431	0.1316	-0.1385	0.4229	0.1172	0.0158	-0.1733	0.1352	-1.4791	
41	12.06	-11.30	0.3567	-0.0438	0.1442	-0.1229	0.4041	0.0826	0.0143	-0.1817	0.1737	-2.2007	
42	12.09	-12.08	0.3843	-0.0448	0.1599	-0.1167	0.4159	0.0417	0.0138	-0.1982	0.3309	-4.7531	
43	12.10	-12.88	0.4547	-0.0442	0.1747	-0.0972	0.3842	-0.0323	0.0131	-0.2073	-0.4670	6.4199	
44	12.10	-13.62	0.5255	-0.0437	0.1787	-0.0831	0.3401	-0.0927	0.0134	-0.2186	-0.1445	2.3591	
45	12.12	-14.46	0.5440	-0.0407	0.2041	-0.0749	0.3751	-0.1260	0.0142	-0.2382	-0.1131	1.8912	
46	12.12	-15.31	0.6282	-0.0380	0.2188	-0.0605	0.3483	-0.1789	0.0158	-0.2597	-0.0886	1.4517	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	168	1.01	1.7	0.0	BZHO12	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	12.13	-16.12	0.7109	-0.0354	0.2309	-0.0499	0.3248	-0.1911	0.0143	-0.2585	-0.0748	1.3531		
48	12.12	-16.90	0.7094	-0.0361	0.2359	-0.0509	0.3325	-0.1620	0.0136	-0.2580	-0.0842	1.5931		
49	12.11	-17.71	0.6957	-0.0368	0.2478	-0.0529	0.3562	-0.1677	0.0128	-0.2599	-0.0763	1.5503		
50	12.14	-18.59	0.7175	-0.0377	0.2542	-0.0526	0.3543	-0.1449	0.0103	-0.2648	-0.0714	1.8280		
51	12.15	-19.39	0.7247	-0.0374	0.2593	-0.0517	0.3578	-0.1799	0.0118	-0.2718	-0.0656	1.5111		
52	12.15	-20.15	0.7411	-0.0371	0.2693	-0.0500	0.3634	-0.1991	0.0135	-0.2810	-0.0680	1.4116		
53	12.15	-20.92	0.8202	-0.0367	0.2747	-0.0447	0.3349	-0.2614	0.0162	-0.2858	-0.0622	1.0934		
54	12.18	-20.92	0.8299	-0.0391	0.2655	-0.0471	0.3198	-0.2523	0.0161	-0.2929	-0.0638	1.1612		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	12.22	19.46	-1.1736	-0.0232	-0.4232	0.0198	0.3606	0.0172	-0.0389	0.0444	-2.2612	2.5832
2	12.22	19.19	-1.1796	-0.0231	-0.4186	0.0196	0.3548	0.0687	-0.0433	0.0585	-0.6302	0.8514
3	12.20	18.43	-1.1474	-0.0189	-0.4388	0.0165	0.3824	0.0051	-0.0344	0.0445	-6.7537	8.7254
4	12.18	17.59	-1.1435	-0.0099	-0.4612	0.0087	0.4033	0.0720	-0.0337	0.0496	-0.4687	0.6888
5	12.18	16.84	-1.1369	-0.0051	-0.4633	0.0045	0.4075	0.0686	-0.0358	0.0666	-0.5225	0.9717
6	12.18	16.02	-1.1798	-0.0018	-0.4468	0.0015	0.3787	0.1270	-0.0404	0.0812	-0.5184	0.6395
7	12.16	15.27	-1.1334	-0.0012	-0.4471	0.0011	0.3944	0.1673	-0.0463	0.1169	-0.2767	0.6990
8	12.15	14.58	-1.0773	0.0007	-0.4439	-0.0006	0.4120	0.2511	-0.0486	0.1278	-0.1935	0.5092
9	12.15	13.75	-1.0536	0.0021	-0.4294	-0.0020	0.4075	0.2876	-0.0487	0.1437	-0.1692	0.4997
10	12.12	12.99	-1.0004	0.0021	-0.4184	-0.0021	0.4183	0.3557	-0.0476	0.1491	-0.1359	0.4192
11	12.09	12.20	-0.9397	0.0014	-0.4038	-0.0015	0.4297	0.3728	-0.0451	0.1640	-0.1211	0.4499
12	12.10	11.50	-0.8676	-0.0010	-0.3902	0.0012	0.4497	0.4745	-0.0423	0.1789	-0.0891	0.3770
13	12.09	10.65	-0.8042	-0.0018	-0.3724	0.0023	0.4631	0.4540	-0.0394	0.1921	-0.0867	0.4231
14	12.08	9.92	-0.7571	-0.0039	-0.3480	0.0051	0.4597	0.4713	-0.0377	0.1924	-0.0801	0.4083
15	12.08	9.09	-0.7097	-0.0041	-0.3167	0.0058	0.4462	0.5168	-0.0330	0.1911	-0.0639	0.3698
16	12.06	8.29	-0.6155	-0.0052	-0.3038	0.0084	0.4935	0.5557	-0.0296	0.1975	-0.0532	0.3553
17	12.06	7.45	-0.5411	-0.0053	-0.2767	0.0098	0.5113	0.5739	-0.0245	0.2037	-0.0427	0.3550
18	12.07	6.68	-0.4711	-0.0043	-0.2511	0.0091	0.5329	0.6342	-0.0203	0.2070	-0.0320	0.3264
19	12.08	5.88	-0.3790	-0.0038	-0.2303	0.0100	0.6075	0.6200	-0.0169	0.2146	-0.0272	0.3461
20	12.06	5.08	-0.3438	-0.0027	-0.1999	0.0080	0.5813	0.6538	-0.0132	0.2207	-0.0203	0.3376
21	12.02	4.25	-0.2737	-0.0027	-0.1781	0.0099	0.6507	0.6420	-0.0117	0.2205	-0.0183	0.3435
22	12.04	3.48	-0.2473	-0.0024	-0.1385	0.0099	0.5601	0.6256	-0.0089	0.2343	-0.0142	0.3746
23	12.02	2.73	-0.1798	-0.0046	-0.1065	0.0256	0.5946	0.6826	-0.0073	0.2333	-0.0108	0.3419
24	12.05	2.00	-0.0837	-0.0039	-0.0900	0.0472	1.0752	0.6992	-0.0056	0.2493	-0.0080	0.3565
25	12.02	1.17	-0.0508	-0.0044	-0.0623	0.0876	1.2269	0.7107	-0.0047	0.2639	-0.0067	0.3713
26	12.05	0.46	-0.0039	-0.0047	-0.0353	1.2049	9.0512	0.7630	-0.0053	0.2660	-0.0069	0.3487
27	12.01	-0.30	0.0112	-0.0049	-0.0056	-0.4419	-0.4971	0.7967	-0.0052	0.2695	-0.0065	0.3382
28	12.04	-1.04	0.1039	-0.0038	0.0099	-0.0366	0.0955	0.8172	-0.0058	0.2795	-0.0071	0.3420
29	12.03	-1.88	0.1554	-0.0043	0.0325	-0.0280	0.2116	0.8406	-0.0056	0.2856	-0.0067	0.3398
30	12.04	-2.69	0.1627	-0.0041	0.0649	-0.0252	0.3990	0.8666	-0.0066	0.3025	-0.0076	0.3490
31	12.02	-3.53	0.2230	-0.0033	0.0953	-0.0148	0.4274	0.8897	-0.0077	0.3046	-0.0087	0.3423
32	12.03	-4.27	0.3121	-0.0034	0.1230	-0.0110	0.3941	0.8999	-0.0094	0.3084	-0.0105	0.3427
33	12.03	-5.11	0.4123	-0.0014	0.1449	-0.0034	0.3514	0.9401	-0.0098	0.3086	-0.0104	0.3282
34	12.02	-5.82	0.4269	0.0001	0.1805	0.0004	0.4229	0.9182	-0.0107	0.3127	-0.0116	0.3405
35	12.04	-6.63	0.5091	0.0009	0.2053	0.0019	0.4033	0.9166	-0.0096	0.3219	-0.0105	0.3512
36	12.04	-7.38	0.5931	0.0025	0.2235	0.0043	0.3769	0.9766	-0.0089	0.3143	-0.0091	0.3219
37	12.03	-8.22	0.6303	0.0036	0.2496	0.0057	0.3900	0.9674	-0.0084	0.3137	-0.0087	0.3242
38	12.04	-8.97	0.6626	0.0035	0.2778	0.0054	0.4192	0.9323	-0.0082	0.3267	-0.0088	0.3504
39	12.05	-9.82	0.7897	0.0055	0.2656	0.0070	0.3744	0.9387	-0.0086	0.3335	-0.0092	0.3553
40	12.05	-10.55	0.8168	0.0050	0.3193	0.0062	0.3910	0.9816	-0.0080	0.3252	-0.0081	0.3313
41	12.06	-11.30	0.9072	0.0044	0.3338	0.0049	0.3679	0.9654	-0.0079	0.3344	-0.0082	0.3464
42	12.09	-12.08	0.9964	0.0029	0.3495	0.0029	0.3512	1.0080	-0.0071	0.3295	-0.0070	0.3269
43	12.10	-12.88	1.0275	0.0024	0.3709	0.0024	0.3609	0.9715	-0.0070	0.3384	-0.0072	0.3483
44	12.10	-13.62	1.0377	0.0022	0.3971	0.0022	0.3826	1.0211	-0.0056	0.3336	-0.0055	0.3267
45	12.12	-14.46	1.1209	0.0025	0.4056	0.0022	0.3618	1.0034	-0.0051	0.3409	-0.0051	0.3397
46	12.12	-15.31	1.1421	0.0026	0.4175	0.0023	0.3655	1.0182	-0.0034	0.3397	-0.0033	0.3336

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		168	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	12.13	-16.12	1.2130	0.0028	0.4252	0.0023	0.3505	1.0002	-0.0023	0.3367	-0.0023	0.3386		
48	12.12	-16.90	1.2348	0.0098	0.4318	0.0080	0.3497	1.0271	-0.0026	0.3341	-0.0025	0.3252		
49	12.11	-17.71	1.2524	0.0168	0.4316	0.0134	0.3446	0.9704	-0.0033	0.3467	-0.0034	0.3572		
50	12.14	-18.59	1.2762	0.0315	0.3595	0.0247	0.3134	1.0166	-0.0024	0.3443	-0.0024	0.3387		
51	12.15	-19.39	1.1995	0.0381	0.3753	0.0318	0.3129	1.0177	-0.0023	0.3447	-0.0023	0.3387		
52	12.15	-20.15	1.0837	0.0331	0.3291	0.0306	0.3037	1.0020	-0.0028	0.3365	-0.0028	0.3358		
53	12.15	-20.92	0.9925	0.0212	0.2548	0.0214	0.2972	0.9955	-0.0022	0.3420	-0.0022	0.3436		
54	12.18	-20.92	0.9662	0.0216	0.2967	0.0223	0.3070	1.0277	-0.0011	0.3352	-0.0011	0.3261		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DELL	DEL2	DEL3	DEL4	TRANSITION
6	169	1.01	1.7	0.8	B2W0F12	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP	
1	15.25	19.44	2.9504	-4.0746	-3.9780	5.4912	-0.1750	0.0715	-1.3810	
2	15.22	19.46	2.8532	-4.1155	-3.9238	5.5853	-0.1700	0.0712	-1.4424	
3	15.22	19.06	2.8785	-4.0599	-4.0002	5.4303	-0.1760	0.0777	-1.4104	
4	15.24	18.41	2.8784	-4.2058	-3.8839	5.8564	-0.1350	0.0648	-1.4611	
5	15.23	17.56	2.8835	-4.2459	-3.9600	5.6430	-0.1100	0.0424	-1.4725	
6	15.22	16.74	2.9123	-4.1832	-3.8211	5.8285	-0.0540	0.0370	-1.4364	
7	15.22	15.94	2.8441	-4.2657	-3.5961	5.6295	-0.0260	0.0515	-1.4998	
8	15.20	15.16	2.7999	-4.3668	-3.3736	5.4639	0.0320	0.0727	-1.5596	
9	15.18	14.39	2.8013	-4.6298	-3.2183	5.2015	0.0720	0.0741	-1.6527	
10	15.13	13.59	2.6805	-4.8896	-3.1206	5.4057	0.1410	0.0872	-1.8241	
11	15.12	12.88	2.7286	-5.0919	-2.6456	4.8758	0.1190	0.1121	-1.8661	
12	15.15	12.09	2.8695	-5.3822	-2.4403	4.5112	0.0890	0.1157	-1.8756	
13	15.13	11.32	2.8697	-5.4074	-2.2424	3.9863	0.0850	0.1271	-1.8843	
14	15.11	10.53	2.8095	-5.4211	-2.1061	3.6545	0.1290	0.1263	-1.9296	
15	15.13	9.78	2.8524	-5.5562	-1.8781	3.2672	0.1170	0.1279	-1.9479	
16	15.10	8.95	2.8528	-5.7177	-1.6768	2.9154	0.1060	0.1451	-2.0042	
17	15.10	8.11	2.8512	-5.7985	-1.5778	2.5899	0.1250	0.1432	-2.0337	
18	15.08	7.28	2.8986	-5.9688	-1.4249	2.2648	0.1450	0.1516	-2.0592	
19	15.07	6.51	2.8716	-6.0960	-1.2403	1.8815	0.1120	0.1514	-2.1228	
20	15.07	5.69	2.9489	-6.2672	-1.0189	1.5464	0.0470	0.1509	-2.1253	
21	15.06	4.90	2.9171	-6.2867	-0.7740	1.1066	0.0660	0.1467	-2.1551	
22	15.06	4.11	2.9341	-6.3565	-0.6552	0.8263	0.0780	0.1540	-2.1664	
23	15.05	3.29	2.9091	-6.4075	-0.6377	0.6468	0.0950	0.1671	-2.2025	
24	15.05	2.61	2.9226	-6.4704	-0.4521	0.5010	0.1000	0.1769	-2.2139	
25	15.04	1.80	2.9039	-6.5542	-0.3291	0.4237	0.0890	0.1764	-2.2570	
26	15.05	1.05	2.9209	-6.5380	-0.3084	0.3607	0.0710	0.1754	-2.2383	
27	15.04	0.29	2.9275	-6.5942	-0.2228	0.2759	0.0550	0.1764	-2.2525	
28	15.02	-0.39	2.9365	-6.6788	-0.0902	0.2362	0.0250	0.1813	-2.2744	
29	15.02	-1.22	2.9472	-6.6548	-0.0624	0.1913	0.0120	0.1675	-2.2580	
30	15.04	-2.04	2.9358	-6.6208	-0.0037	0.1132	0.0200	0.1579	-2.2572	
31	15.04	-2.83	2.9565	-6.6038	0.1658	0.0329	-0.0130	0.1599	-2.2336	
32	15.03	-3.65	2.9295	-6.7330	0.3293	-0.2460	0.0110	0.1510	-2.2483	
33	15.03	-4.44	2.9455	-6.6904	0.3821	-0.3920	0.0080	0.1410	-2.2714	
34	15.03	-5.18	2.8983	-6.5583	0.6087	-0.7342	-0.0570	0.1584	-2.2628	
35	15.03	-5.93	2.8981	-6.5710	0.8050	-1.0770	-0.0930	0.1591	-2.2673	
36	15.04	-6.74	2.8691	-6.3795	0.9545	-1.4752	-0.1130	0.1612	-2.2235	
37	15.04	-7.57	2.8653	-6.2932	1.1816	-1.8053	-0.1080	0.1632	-2.1963	
38	15.04	-8.34	2.8230	-6.1580	1.3658	-2.2541	-0.1270	0.1534	-2.1613	
39	15.06	-9.11	2.8411	-6.0483	1.4924	-2.5353	-0.1090	0.1503	-2.1288	
40	15.08	-9.91	2.8263	-5.9146	1.6055	-2.9446	-0.0930	0.1460	-2.0927	
41	15.08	-10.66	2.8558	-5.8509	1.7590	-3.2954	-0.0300	0.1385	-2.0488	
42	15.05	-11.51	2.7687	-5.6810	1.9595	-3.7552	-0.0370	0.1369	-2.0518	
43	15.07	-12.19	2.8164	-5.6568	2.2382	-4.1544	-0.0480	0.1359	-2.0085	
44	15.09	-13.00	2.8170	-5.3957	2.4550	-4.5068	-0.0490	0.1444	-1.9154	
45	15.07	-13.75	2.7399	-5.2577	2.5841	-4.8995	-0.0450	0.1617	-1.9189	
46	15.10	-14.59	2.8378	-4.9056	2.8139	-5.0774	-0.0170	0.1483	-1.7288	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		169		1.01 1.7		0.0	B2MOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	15.15	-15.44	2.8300	-4.6559	3.0598	-5.1016	0.0350	0.1427	-1.6452				
48	15.15	-16.22	2.8422	-4.4841	3.2251	-5.3590	0.0740	0.1427	-1.5777				
49	15.20	-16.98	2.9571	-4.3649	3.3659	-5.4691	0.1340	0.1348	-1.4761				
50	15.22	-17.87	2.9802	-4.2653	3.5992	-5.5499	0.1600	0.1517	-1.4312				
51	15.20	-18.68	2.9278	-4.2949	3.7246	-5.5084	0.1970	0.1601	-1.4669				
52	15.20	-19.54	2.9920	-4.1438	3.8729	-5.1021	0.2910	0.1816	-1.3850				
53	15.23	-20.27	3.0524	-4.1374	4.0565	-4.8132	0.3580	0.1947	-1.3554				

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	169	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	15.25	19.44	-0.5667	0.0421	-0.2140	-0.0744	0.3777	0.6651	0.0243	0.0740	0.0366	0.1113
2	15.22	19.46	-0.5514	0.0414	-0.2170	-0.0751	0.3936	0.6608	0.0240	0.0770	0.0363	0.1165
3	15.22	19.06	-0.5984	0.0415	-0.2084	-0.0694	0.3483	0.6532	0.0239	0.0786	0.0367	0.1203
4	15.24	18.41	-0.5794	0.0420	-0.2047	-0.0725	0.3532	0.6663	0.0239	0.0765	0.0359	0.1149
5	15.23	17.56	-0.5719	0.0435	-0.1997	-0.0761	0.3491	0.6694	0.0239	0.0743	0.0357	0.1110
6	15.22	16.74	-0.5183	0.0416	-0.1890	-0.0802	0.3647	0.6437	0.0240	0.0739	0.0373	0.1148
7	15.22	15.94	-0.4512	0.0416	-0.1843	-0.0922	0.4086	0.6467	0.0241	0.0718	0.0373	0.1110
8	15.20	15.16	-0.4122	0.0395	-0.1556	-0.0958	0.3774	0.6311	0.0242	0.0663	0.0384	0.1051
9	15.18	14.39	-0.3741	0.0399	-0.1413	-0.1066	0.3776	0.6333	0.0241	0.0665	0.0381	0.1051
10	15.13	13.59	-0.3125	0.0395	-0.1300	-0.1265	0.4161	0.6187	0.0241	0.0628	0.0389	0.1015
11	15.12	12.88	-0.2598	0.0439	-0.1353	-0.1689	0.5211	0.6007	0.0238	0.0627	0.0391	0.1031
12	15.15	12.09	-0.2492	0.0435	-0.1152	-0.1745	0.4624	0.6230	0.0236	0.0609	0.0383	0.0978
13	15.13	11.32	-0.2413	0.0448	-0.1186	-0.1858	0.4915	0.6067	0.0242	0.0609	0.0400	0.1004
14	15.11	10.53	-0.1843	0.0437	-0.0958	-0.2371	0.5416	0.5765	0.0238	0.0565	0.0414	0.0980
15	15.13	9.78	-0.1340	0.0423	-0.0860	-0.3160	0.6422	0.5621	0.0237	0.0560	0.0422	0.0997
16	15.10	8.95	-0.1363	0.0432	-0.0743	-0.3169	0.5452	0.5609	0.0242	0.0538	0.0432	0.0960
17	15.10	8.11	-0.0628	0.0398	-0.0579	-0.6336	0.9224	0.5593	0.0240	0.0465	0.0430	0.0831
18	15.08	7.28	-0.0169	0.0396	-0.0418	-2.3457	2.4752	0.5286	0.0240	0.0475	0.0455	0.0898
19	15.07	6.51	0.0288	0.0433	-0.0403	1.5032	-1.3994	0.5187	0.0239	0.0443	0.0461	0.0853
20	15.07	5.69	0.0229	0.0498	-0.0397	2.1743	-1.7323	0.5337	0.0238	0.0426	0.0447	0.0797
21	15.06	4.90	0.0330	0.0535	-0.0341	1.6209	-1.0335	0.5483	0.0240	0.0334	0.0438	0.0610
22	15.06	4.11	0.0674	0.0535	-0.0117	0.7944	-0.1742	0.5346	0.0241	0.0321	0.0451	0.0600
23	15.05	3.29	0.1267	0.0472	0.0004	0.3725	0.0033	0.5255	0.0239	0.0185	0.0456	0.0353
24	15.05	2.61	0.1474	0.0361	0.0096	0.2449	0.0652	0.5130	0.0244	0.0107	0.0475	0.0208
25	15.04	1.80	0.1095	0.0228	0.0141	0.2086	0.1286	0.5061	0.0250	-0.0001	0.0494	-0.0003
26	15.05	1.05	0.0618	0.0135	0.0202	0.2184	0.3267	0.4657	0.0251	-0.0061	0.0540	-0.0131
27	15.04	0.29	0.0278	0.0056	0.0059	0.2014	0.2109	0.4170	0.0256	-0.0118	0.0614	-0.0283
28	15.02	-0.39	-0.0362	-0.0023	0.0041	0.0649	-0.1143	0.3941	0.0262	-0.0184	0.0665	-0.0468
29	15.02	-1.22	-0.0618	-0.0124	0.0003	0.2014	-0.0050	0.3527	0.0265	-0.0277	0.0752	-0.0786
30	15.04	-2.04	-0.0731	-0.0298	0.0102	0.4083	-0.1401	0.3393	0.0263	-0.0445	0.0775	-0.1311
31	15.04	-2.83	-0.1010	-0.0359	0.0011	0.3559	-0.0113	0.3192	0.0268	-0.0502	0.0839	-0.1572
32	15.03	-3.65	-0.0766	-0.0509	0.0286	0.6650	-0.3731	0.3467	0.0261	-0.0679	0.0754	-0.1959
33	15.03	-4.44	-0.0489	-0.0563	0.0266	1.1511	-0.5441	0.3351	0.0261	-0.0763	0.0780	-0.2276
34	15.03	-5.18	-0.1308	-0.0529	0.0150	0.4044	-0.1148	0.3314	0.0265	-0.0801	0.0799	-0.2417
35	15.03	-5.93	-0.0985	-0.0496	0.0144	0.5035	-0.1460	0.3301	0.0259	-0.0843	0.0784	-0.2552
36	15.04	-6.74	-0.0587	-0.0435	0.0147	0.7409	-0.2511	0.2962	0.0253	-0.0830	0.0854	-0.2800
37	15.04	-7.57	-0.0106	-0.0359	0.0283	3.3509	-2.6668	0.2974	0.0239	-0.0939	0.0803	-0.3155
38	15.04	-8.34	0.0316	-0.0335	0.0293	-1.0615	0.9282	0.2931	0.0229	-0.0973	0.0781	-0.3319
39	15.06	-9.11	0.0771	-0.0329	0.0525	-0.4273	0.6808	0.2820	0.0216	-0.1073	0.0766	-0.3804
40	15.08	-9.91	0.1410	-0.0358	0.0660	-0.2542	0.4680	0.2583	0.0196	-0.1192	0.0759	-0.4616
41	15.08	-10.66	0.2452	-0.0414	0.1046	-0.1690	0.4266	0.2367	0.0177	-0.1376	0.0748	-0.5814
42	15.05	-11.51	0.2708	-0.0428	0.1148	-0.1922	0.4241	0.2094	0.0166	-0.1424	0.0793	-0.6802
43	15.07	-12.19	0.3060	-0.0441	0.1240	-0.1440	0.4051	0.1940	0.0157	-0.1504	0.0789	-0.7557
44	15.09	-13.00	0.2875	-0.0420	0.1242	-0.1460	0.4320	0.1696	0.0150	-0.1595	0.0887	-0.9404
45	15.07	-13.75	0.3450	-0.0455	0.1470	-0.1320	0.4259	0.1482	0.0141	-0.1693	0.0951	-1.1425
46	15.10	-14.59	0.3688	-0.0437	0.1474	-0.1186	0.3996	0.0779	0.0135	-0.1847	0.1739	-2.4337

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

	TEST PART	MACH	RAIU-6	PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION	
	6	1.69	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	15.15	-15.44	0.4329	-0.0444	0.1592	-0.1025	0.3676	-0.0362	0.0137	-0.2046	-0.3798	5.6537
48	15.15	-16.22	0.4742	-0.0450	0.1693	-0.0949	0.3570	-0.0746	0.0148	-0.2219	-0.1990	2.9753
49	15.20	-16.98	0.5613	-0.0461	0.1853	-0.0821	0.3302	-0.1291	0.0163	-0.2464	-0.1262	1.9087
50	15.22	-17.87	0.5720	-0.0466	0.1958	-0.0814	0.3423	-0.1099	0.0153	-0.2509	-0.1392	2.2832
51	15.20	-18.68	0.5773	-0.0453	0.2088	-0.0785	0.3616	-0.1105	0.0137	-0.2539	-0.1244	2.2979
52	15.20	-19.54	0.5576	-0.0462	0.2255	-0.0828	0.4044	-0.1540	0.0155	-0.2576	-0.1010	1.6728
53	15.23	-20.27	0.6627	-0.0463	0.2239	-0.0699	0.3379	-0.1884	0.0168	-0.2699	-0.0894	1.4330

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		PH1	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION
	6	169	1.01	1.7								
					0.0	B2WUF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.25	19.44	-1.1247	-0.0286	-0.3976	0.0254	0.3535	0.2374	-0.0432	0.1171	-0.1821	0.4933
2	15.22	19.46	-1.1090	-0.0300	-0.4010	0.0270	0.3616	0.2452	-0.0451	0.1191	-0.1581	0.4177
3	15.22	19.06	-1.1595	-0.0300	-0.4002	0.0259	0.3451	0.2402	-0.0445	0.1261	-0.1852	0.5251
4	15.24	18.41	-1.1455	-0.0249	-0.4165	0.0210	0.3517	0.2622	-0.0454	0.1212	-0.1731	0.4625
5	15.23	17.56	-1.1713	-0.0230	-0.4343	0.0197	0.3708	0.2690	-0.0476	0.1299	-0.1771	0.4830
6	15.22	16.74	-1.2055	-0.0118	-0.4543	0.0098	0.3768	0.2932	-0.0436	0.1296	-0.1486	0.4420
7	15.22	15.94	-1.1835	-0.0021	-0.4648	0.0018	0.3928	0.2747	-0.0406	0.1407	-0.1477	0.5123
8	15.20	15.16	-1.1758	-0.0002	-0.4556	0.0002	0.3875	0.3548	-0.0419	0.1551	-0.1182	0.4372
9	15.18	14.39	-1.1114	0.0027	-0.4560	-0.0025	0.4103	0.4224	-0.0431	0.1665	-0.1021	0.3940
10	15.13	13.59	-1.1119	0.0033	-0.4456	-0.0030	0.4010	0.5428	-0.0445	0.1918	-0.0820	0.3533
11	15.12	12.88	-1.0006	0.0017	-0.4323	-0.0017	0.4320	0.5049	-0.0439	0.2024	-0.0869	0.4009
12	15.15	12.09	-0.9622	0.0004	-0.4111	-0.0004	0.4272	0.5828	-0.0404	0.1986	-0.0693	0.3408
13	15.15	11.32	-0.9042	-0.0021	-0.3867	0.0023	0.4276	0.5643	-0.0404	0.2013	-0.0716	0.3568
14	15.11	10.53	-0.8385	-0.0032	-0.3675	0.0039	0.4383	0.5560	-0.0375	0.2224	-0.0674	0.3999
15	15.13	9.78	-0.7821	-0.0040	-0.3451	0.0052	0.4412	0.6321	-0.0345	0.2198	-0.0546	0.3478
16	15.10	8.95	-0.6878	-0.0065	-0.3257	0.0094	0.4735	0.6382	-0.0325	0.2277	-0.0510	0.3569
17	15.10	8.11	-0.6283	-0.0062	-0.3045	0.0099	0.4853	0.6301	-0.0266	0.2468	-0.0423	0.3918
18	15.08	7.28	-0.5674	-0.0059	-0.2801	0.0105	0.4937	0.7113	-0.0215	0.2450	-0.0303	0.3445
19	15.07	6.51	-0.5288	-0.0054	-0.2502	0.0103	0.4731	0.7317	-0.0168	0.2451	-0.0230	0.3350
20	15.07	5.69	-0.4329	-0.0042	-0.2264	0.0098	0.5231	0.7176	-0.0155	0.2579	-0.0217	0.3594
21	15.06	4.90	-0.3615	-0.0024	-0.1928	0.0068	0.5332	0.7389	-0.0133	0.2504	-0.0181	0.3389
22	15.06	4.11	-0.2839	-0.0033	-0.1692	0.0116	0.5954	0.7812	-0.0100	0.2534	-0.0129	0.3244
23	15.05	3.29	-0.2346	-0.0033	-0.1409	0.0141	0.6009	0.8342	-0.0069	0.2660	-0.0083	0.3188
24	15.05	2.61	-0.1706	-0.0028	-0.1141	0.0164	0.6691	0.8399	-0.0061	0.2816	-0.0073	0.3352
25	15.04	1.80	-0.0942	-0.0023	-0.0865	0.0244	0.9181	0.8975	-0.0047	0.2937	-0.0052	0.3272
26	15.05	1.05	-0.0503	-0.0036	-0.0621	0.0726	1.2358	0.8925	-0.0048	0.3103	-0.0054	0.3477
27	15.04	0.29	0.0068	-0.0037	-0.0358	-0.5440	-5.2697	0.9453	-0.0049	0.3120	-0.0052	0.3300
28	15.02	-0.39	0.0349	-0.0052	-0.0064	-0.1504	-0.1825	0.9779	-0.0065	0.3241	-0.0066	0.3314
29	15.02	-1.22	0.1459	-0.0054	0.0124	-0.0373	0.0951	0.9928	-0.0070	0.3349	-0.0070	0.3373
30	15.04	-2.04	0.1577	-0.0051	0.0470	-0.0323	0.2983	1.0443	-0.0080	0.3450	-0.0077	0.3303
31	15.04	-2.83	0.2186	-0.0064	0.0732	-0.0295	0.3350	1.0474	-0.0089	0.3557	-0.0085	0.3396
32	15.03	-3.65	0.2687	-0.0052	0.1043	-0.0193	0.3883	1.1508	-0.0092	0.3545	-0.0080	0.3080
33	15.03	-4.44	0.3734	-0.0035	0.1253	-0.0094	0.3356	1.1157	-0.0104	0.3681	-0.0093	0.3299
34	15.03	-5.18	0.4350	-0.0006	0.1534	-0.0014	0.3525	1.1427	-0.0127	0.3635	-0.0112	0.3181
35	15.03	-5.93	0.4811	0.0002	0.1903	0.0004	0.3956	1.1575	-0.0120	0.3660	-0.0104	0.3162
36	15.04	-6.74	0.5409	0.0023	0.2221	0.0043	0.4107	1.1357	-0.0125	0.3679	-0.0110	0.3240
37	15.04	-7.57	0.6090	0.0042	0.2482	0.0069	0.4076	1.1743	-0.0120	0.3668	-0.0103	0.3124
38	15.04	-8.34	0.6767	0.0060	0.2691	0.0089	0.3976	1.1693	-0.0115	0.3639	-0.0099	0.3112
39	15.06	-9.11	0.7481	0.0063	0.2686	0.0085	0.3857	1.1387	-0.0111	0.3789	-0.0097	0.3328
40	15.08	-9.91	0.8290	0.0076	0.3101	0.0092	0.3741	1.1936	-0.0106	0.3731	-0.0089	0.3146
41	15.08	-10.66	0.8958	0.0063	0.3264	0.0071	0.3644	1.2140	-0.0094	0.3790	-0.0078	0.3122
42	15.05	-11.51	0.9665	0.0057	0.3497	0.0059	0.3618	1.2085	-0.0095	0.3775	-0.0079	0.3124
43	15.07	-12.19	1.0063	0.0055	0.3802	0.0055	0.3778	1.2147	-0.0097	0.3870	-0.0080	0.3186
44	15.09	-13.00	1.1046	0.0048	0.3991	0.0043	0.3613	1.2384	-0.0099	0.3881	-0.0080	0.3134
45	15.07	-13.75	1.1937	0.0051	0.4113	0.0044	0.3565	1.2133	-0.0103	0.3916	-0.0085	0.3227
46	15.10	-14.59	1.1907	0.0044	0.4246	0.0037	0.3966	1.2390	-0.0098	0.3877	-0.0079	0.3130

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	169	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.15	-15.44	1.2212	0.0065	0.4377	0.0054	0.3584	1.2374	-0.0094	0.3995	-0.0076	0.3229
48	15.15	-16.22	1.2680	0.0085	0.4384	0.0067	0.3458	1.2470	-0.0104	0.3869	-0.0081	0.3007
49	15.20	-16.98	1.3013	0.0110	0.4378	0.0085	0.3364	1.2449	-0.0095	0.4012	-0.0076	0.3223
50	15.22	-17.87	1.3181	0.0215	0.4307	0.0163	0.3268	1.2982	-0.0096	0.3886	-0.0074	0.2993
51	15.20	-18.68	1.2871	0.0311	0.4111	0.0242	0.3194	1.2604	-0.0094	0.3988	-0.0075	0.3164
52	15.20	-19.54	1.1660	0.0367	0.3668	0.0315	0.3146	1.2925	-0.0095	0.3914	-0.0073	0.3028
53	15.23	-20.27	1.1629	0.0324	0.3455	0.0279	0.2971	1.3081	-0.0084	0.3929	-0.0065	0.3003

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION
6		170	1.01	1.7	0.0	B2MOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	18.41	19.34	3.7430	-4.4153	-4.0405	4.9098	-0.0860	0.0527	-1.1796		
2	18.41	18.47	3.6666	-4.4674	-3.9496	4.7815	-0.0580	0.0625	-1.2184		
3	18.40	17.71	3.7380	-4.6853	-3.9412	4.8547	-0.0240	0.0693	-1.2534		
4	18.39	16.86	3.6826	-4.5327	-4.0641	4.8978	0.0080	0.0285	-1.2308		
5	18.40	16.04	3.7020	-4.5069	-3.8760	5.0284	0.0700	0.0111	-1.2174		
6	18.35	15.30	3.5521	-4.6970	-3.4312	4.8786	0.0920	0.0288	-1.3223		
7	18.32	14.55	3.5738	-5.0054	-3.1845	4.5763	0.1330	0.0555	-1.4006		
8	18.32	13.75	3.5539	-5.1705	-3.0475	4.2835	0.1570	0.0665	-1.4549		
9	18.32	12.89	3.5840	-5.4286	-2.8384	4.1898	0.1810	0.0538	-1.5147		
10	18.30	12.20	3.5568	-5.4855	-2.4258	3.2881	0.1840	0.0984	-1.5422		
11	18.26	11.35	3.5634	-5.7627	-2.3699	3.3918	0.2140	0.0882	-1.6172		
12	18.26	10.60	3.5816	-5.9752	-2.2896	3.0505	0.2070	0.1060	-1.6683		
13	18.25	9.72	3.6029	-6.2369	-2.1194	2.8152	0.2150	0.0913	-1.7311		
14	18.21	9.03	3.5461	-6.4284	-1.8884	2.6127	0.2400	0.1180	-1.8128		
15	18.19	8.20	3.4631	-6.6872	-1.7160	2.5573	0.2390	0.1245	-1.9309		
16	18.16	7.43	3.4807	-6.8998	-1.4232	1.9885	0.1920	0.1283	-1.9823		
17	18.16	6.60	3.5836	-7.0858	-1.1505	1.5288	0.1690	0.1412	-1.9773		
18	18.16	5.84	3.7027	-7.1715	-1.0169	1.0527	0.1550	0.1330	-1.9368		
19	18.17	4.95	3.6430	-7.2559	-0.8573	0.5953	0.1350	0.1329	-1.9917		
20	18.15	4.16	3.6453	-7.3062	-0.7891	0.5938	0.1460	0.1536	-2.0043		
21	18.14	3.38	3.6454	-7.3733	-0.7154	0.5166	0.1980	0.1620	-2.0226		
22	18.13	2.67	3.5962	-7.5764	-0.5804	0.5046	0.1580	0.1744	-2.1068		
23	18.13	1.80	3.6319	-7.6554	-0.4389	0.4085	0.1260	0.1720	-2.1078		
24	18.12	1.10	3.6233	-7.6703	-0.2775	0.2575	0.0750	0.1707	-2.1169		
25	18.12	0.33	3.6661	-7.6652	-0.1856	0.1138	0.0190	0.1785	-2.0908		
26	18.13	-0.40	3.6430	-7.5959	-0.2182	0.4064	0.0250	0.1838	-2.0851		
27	18.11	-1.20	3.6493	-7.7287	-0.1781	0.5743	0.0330	0.1813	-2.1178		
28	18.11	-1.94	3.6557	-7.6587	-0.1024	0.6373	0.0290	0.1661	-2.0950		
29	18.11	-2.79	3.6256	-7.6655	0.0601	0.4248	-0.0170	0.1543	-2.1143		
30	18.13	-3.61	3.6241	-7.8494	0.1372	0.4519	-0.0350	0.1556	-2.1107		
31	18.12	-4.44	3.6291	-7.6454	0.2907	0.1510	-0.0590	0.1543	-2.1067		
32	18.11	-5.19	3.5651	-7.5199	0.4754	-0.1907	-0.0740	0.1624	-2.1093		
33	18.14	-5.95	3.5735	-7.4506	0.6437	-0.4453	-0.1200	0.1787	-2.0849		
34	18.13	-6.76	3.5612	-7.2774	0.8813	-0.8988	-0.1280	0.1678	-2.0445		
35	18.13	-7.57	3.5021	-7.0837	1.0411	-1.3775	-0.1540	0.1813	-2.0227		
36	18.16	-8.39	3.4920	-6.9956	1.3379	-1.8211	-0.2050	0.1824	-2.0033		
37	18.15	-9.16	3.4591	-6.7616	1.5922	-2.2681	-0.2010	0.1735	-1.9547		
38	18.16	-9.93	3.4602	-6.6071	1.7106	-2.5308	-0.1870	0.1608	-1.9094		
39	18.20	-10.76	3.4586	-6.3819	1.8813	-2.7757	-0.1690	0.1454	-1.8452		
40	18.22	-11.46	3.5434	-5.9527	1.9314	-2.7530	-0.1280	0.1339	-1.6799		
41	18.21	-12.31	3.4737	-5.4551	2.1860	-3.3634	-0.0790	0.1501	-1.7143		
42	18.22	-13.07	3.3982	-5.8073	2.3193	-3.6720	-0.1140	0.1416	-1.7090		
43	18.24	-13.82	3.5058	-5.6141	2.5020	-3.9287	-0.0020	0.1437	-1.6014		
44	18.25	-14.73	3.4749	-5.3969	2.7740	-4.1606	-0.0690	0.1275	-1.5531		
45	18.27	-15.50	3.4812	-5.1847	3.0309	-4.5082	-0.0550	0.1366	-1.4893		
46	18.29	-16.33	3.5124	-4.9924	3.1336	-4.5340	-0.0120	0.1182	-1.4213		

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MARTIN MISSILE TAILS EFFECTS DATA

		TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
		6	170	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	18.34	-17.12	3.6399	-4.8729	3.5030	-4.7553	0.0170	0.1298	-1.3387				
48	18.33	-17.96	3.6998	-4.9638	3.6687	-4.5113	0.0840	0.1430	-1.3416				
49	18.35	-18.78	3.7399	-4.7689	3.9233	-4.4617	0.1330	0.1157	-1.2751				
50	18.35	-19.60	3.8090	-4.7177	3.9283	-3.9728	0.2350	0.1517	-1.2386				
51	18.36	-20.18	3.8043	-4.7141	4.1797	-4.0427	0.2850	0.1388	-1.2391				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	17.0	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	18.41	19.34	-0.4306	0.0507	-0.1829	-0.1177	0.4247	0.7317	0.0295	0.0978	0.0403	0.1337
2	18.41	18.47	-0.4581	0.0509	-0.1761	-0.1111	0.3845	0.7486	0.0297	0.0939	0.0397	0.1254
3	18.40	17.71	-0.4010	0.0532	-0.1741	-0.1326	0.4342	0.7099	0.0308	0.0955	0.0434	0.1345
4	18.39	16.86	-0.4096	0.0497	-0.1556	-0.1214	0.3798	0.7255	0.0296	0.0938	0.0408	0.1292
5	18.40	16.04	-0.3108	0.0486	-0.1361	-0.1565	0.4377	0.7223	0.0303	0.0869	0.0420	0.1203
6	18.35	15.30	-0.2819	0.0448	-0.1085	-0.1588	0.3850	0.7370	0.0296	0.0853	0.0402	0.1157
7	18.32	14.55	-0.1749	0.0424	-0.1003	-0.2424	0.5734	0.7392	0.0287	0.0859	0.0388	0.1163
8	18.32	13.75	-0.1337	0.0414	-0.0927	-0.3100	0.6937	0.7486	0.0296	0.0785	0.0395	0.1048
9	18.32	12.89	-0.1265	0.0383	-0.0590	-0.3031	0.4668	0.7125	0.0286	0.0843	0.0402	0.1184
10	18.30	12.20	-0.0637	0.0354	-0.0579	-0.5564	0.9094	0.7322	0.0278	0.0774	0.0380	0.1057
11	18.26	11.35	-0.0377	0.0317	-0.0329	-0.8407	0.8717	0.7206	0.0271	0.0796	0.0377	0.1105
12	18.26	10.60	-0.0059	0.0325	-0.0333	-5.5075	5.6383	0.7057	0.0276	0.0775	0.0392	0.1098
13	18.25	9.72	-0.0124	0.0314	-0.0173	-2.5318	1.3977	0.7125	0.0261	0.0806	0.0367	0.1132
14	18.21	9.03	0.0719	0.0277	-0.0059	0.3852	-0.0826	0.7144	0.0255	0.0740	0.0358	0.1035
15	18.19	8.20	0.0530	0.0334	0.0001	0.3591	0.0010	0.6605	0.0267	0.0779	0.0405	0.1180
16	18.16	7.43	0.0662	0.0470	-0.0115	0.7106	-0.1743	0.6603	0.0275	0.0719	0.0416	0.1090
17	18.16	6.60	0.1622	0.0540	-0.0158	0.3329	-0.0977	0.6363	0.0285	0.0722	0.0448	0.1135
18	18.16	5.84	0.1561	0.0455	0.0142	0.2914	0.0911	0.6906	0.0259	0.0701	0.0375	0.1016
19	18.17	4.95	0.1937	0.0494	0.0201	0.2552	0.1040	0.6649	0.0249	0.0724	0.0374	0.1089
20	18.15	4.16	0.2600	0.0363	0.0517	0.1396	0.1990	0.6232	0.0246	0.0690	0.0395	0.1107
21	18.14	3.38	0.2440	0.0249	0.0681	0.1022	0.2791	0.5826	0.0248	0.0614	0.0426	0.1053
22	18.13	2.67	0.1956	0.0228	0.0465	0.1165	0.2376	0.5688	0.0251	0.0593	0.0441	0.1042
23	18.13	1.80	0.1774	0.0227	0.0277	0.1279	0.1562	0.5334	0.0253	0.0563	0.0475	0.1055
24	18.12	1.10	0.1235	0.0219	0.0124	0.1777	0.1008	0.5112	0.0253	0.0488	0.0495	0.0954
25	18.12	0.33	0.0236	0.0143	-0.0003	0.6079	-0.0142	0.5395	0.0263	0.0370	0.0487	0.0686
26	18.13	-0.40	-0.0396	-0.0049	0.0009	0.1237	-0.0228	0.5126	0.0259	0.0162	0.0506	0.0317
27	18.11	-1.20	-0.0885	-0.0333	0.0126	0.3762	-0.1425	0.5050	0.0252	-0.0093	0.0500	-0.0184
28	18.11	-1.94	-0.0975	-0.0452	0.0137	0.4635	-0.1406	0.4887	0.0246	-0.0266	0.0504	-0.0545
29	18.11	-2.79	-0.1059	-0.0499	-0.0026	0.3010	0.0156	0.4806	0.0249	-0.0356	0.0519	-0.0741
30	18.13	-3.61	-0.2161	-0.0517	-0.0158	0.2392	0.0731	0.4664	0.0247	-0.0431	0.0530	-0.0925
31	18.12	-4.44	-0.2089	-0.0600	-0.0093	0.2874	0.0446	0.4428	0.0242	-0.0504	0.0547	-0.1138
32	18.11	-5.18	-0.1831	-0.0590	-0.0128	0.3224	0.0700	0.4280	0.0236	-0.0596	0.0552	-0.1393
33	18.14	-5.95	-0.1835	-0.0581	-0.0129	0.3168	0.0705	0.4293	0.0232	-0.0708	0.0541	-0.1649
34	18.13	-6.76	-0.1566	-0.0563	-0.0030	0.3595	0.0190	0.3807	0.0226	-0.0726	0.0595	-0.1907
35	18.13	-7.57	-0.1330	-0.0495	-0.0094	0.3721	0.0708	0.3625	0.0224	-0.0775	0.0618	-0.2137
36	18.16	-8.39	-0.1637	-0.0426	-0.0070	0.2605	0.0430	0.3791	0.0217	-0.0815	0.0572	-0.2150
37	18.15	-9.16	-0.0981	-0.0390	0.0027	0.3575	-0.0276	0.3718	0.0200	-0.0906	0.0538	-0.2436
38	18.16	-9.93	-0.0353	-0.0407	0.0243	1.1542	-0.6894	0.3414	0.0186	-0.1000	0.0545	-0.2928
39	18.20	-10.76	-0.0226	-0.0382	0.0351	1.6422	-1.5517	0.3460	0.0166	-0.1147	0.0481	-0.3313
40	18.22	-11.40	0.0423	-0.0372	0.0467	-0.8793	1.1039	0.2274	0.0143	-0.1392	0.0631	-0.6123
41	18.21	-12.31	0.1126	-0.0534	0.0982	-0.4742	0.8723	0.2480	0.0138	-0.1525	0.0558	-0.6152
42	18.22	-13.07	0.1129	-0.0468	0.0808	-0.4149	0.7159	0.2222	0.0131	-0.1529	0.0592	-0.6884
43	18.24	-13.82	0.1728	-0.0491	0.0984	-0.2844	0.5693	0.1769	0.0126	-0.1693	0.0715	-0.9573
44	18.25	-14.73	0.2026	-0.0455	0.1006	-0.2245	0.4966	0.1410	0.0125	-0.1822	0.0886	-1.2923
45	18.27	-15.50	0.2206	-0.0454	0.1188	-0.2098	0.5386	0.1161	0.0126	-0.1942	0.1089	-1.6728
46	18.29	-16.33	0.2723	-0.0464	0.1259	-0.1704	0.4625	0.0909	0.0124	-0.2090	0.2436	-4.1069

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	170	1.01	1.7	0.0	0.2	0.0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.34	-17.12	0.3418	-0.0495	0.1405	-0.1449	0.4110	0.0371	0.0125	-0.2219	0.3382	-5.9821
48	18.33	-17.96	0.3774	-0.0442	0.1457	-0.1172	0.3859	0.0392	0.0104	-0.2236	0.2665	-5.7050
49	18.35	-18.78	0.4104	-0.0453	0.1605	-0.1103	0.3909	-0.0338	0.0129	-0.2320	-0.3831	6.8658
50	18.35	-19.60	0.4163	-0.0461	0.1829	-0.1108	0.4394	-0.0339	0.0135	-0.2376	-0.3982	7.0087
51	18.36	-20.18	0.5310	-0.0458	0.1807	-0.0863	0.3404	-0.0564	0.0139	-0.2362	-0.2464	4.1878

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	170	1.01	1.7	0.0	B2M0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	18.41	19.34	-1.1939	-0.0241	-0.4285	0.0202	0.3589	0.3480	-0.0461	0.1434	-0.1332	0.4144
2	18.41	18.47	-1.2076	-0.0236	-0.4373	0.0196	0.3621	0.3599	-0.0482	0.1531	-0.1340	0.4254
3	18.40	17.71	-1.2150	-0.0213	-0.4425	0.0175	0.3642	0.3614	-0.0514	0.1622	-0.1422	0.4488
4	18.39	16.86	-1.2268	-0.0118	-0.4588	0.0097	0.3740	0.4178	-0.0500	0.1528	-0.1196	0.3658
5	18.40	16.04	-1.2249	0.0	-0.4747	0.0	0.3876	0.3448	-0.0433	0.1468	-0.1255	0.4257
6	18.35	15.30	-1.2043	0.0048	-0.4746	-0.0040	0.3941	0.3697	-0.0429	0.1642	-0.1160	0.4441
7	18.32	14.55	-1.1559	0.0056	-0.4674	-0.0048	0.4044	0.4258	-0.0470	0.1728	-0.1103	0.4058
8	18.32	13.75	-1.1045	0.0046	-0.4523	-0.0042	0.4095	0.4540	-0.0470	0.1976	-0.1036	0.4352
9	18.32	12.89	-1.0804	0.0033	-0.4346	-0.0031	0.4022	0.5524	-0.0478	0.2058	-0.0865	0.3725
10	18.30	12.20	-0.9921	0.0016	-0.4190	-0.0017	0.4223	0.5484	-0.0453	0.2087	-0.0827	0.3806
11	18.26	11.35	-0.9618	-0.0014	-0.3521	0.0015	0.4076	0.6446	-0.0441	0.2234	-0.0684	0.3466
12	18.26	10.60	-0.8874	-0.0035	-0.3819	0.0034	0.4303	0.6799	-0.0400	0.2284	-0.0589	0.3360
13	18.25	9.72	-0.8205	-0.0058	-0.3611	0.0071	0.4401	0.7196	-0.0362	0.2460	-0.0504	0.3418
14	18.21	9.03	-0.7227	-0.0086	-0.3426	0.0120	0.4741	0.7759	-0.0242	0.2575	-0.0377	0.3319
15	18.19	8.20	-0.6585	-0.0095	-0.3160	0.0145	0.4799	0.8449	-0.0211	0.2686	-0.0250	0.3178
16	18.16	7.43	-0.6130	-0.0082	-0.2851	0.0134	0.4655	0.7689	-0.0207	0.2748	-0.0270	0.3574
17	18.16	6.60	-0.5219	-0.0075	-0.2601	0.0145	0.4783	0.7958	-0.0183	0.2813	-0.0230	0.3534
18	18.16	5.84	-0.4451	-0.0068	-0.2358	0.0154	0.5298	0.8205	-0.0174	0.2826	-0.0210	0.3419
19	18.17	4.95	-0.3735	-0.0085	-0.2020	0.0229	0.5407	0.8773	-0.0160	0.2785	-0.0182	0.3175
20	18.15	4.16	-0.3407	-0.0097	-0.1704	0.0286	0.5002	0.9287	-0.0107	0.2943	-0.0115	0.3169
21	18.14	3.38	-0.2259	-0.0102	-0.1502	0.0451	0.6652	0.9503	-0.0087	0.3100	-0.0092	0.3262
22	18.13	2.67	-0.2032	-0.0080	-0.1155	0.0394	0.5685	1.0482	-0.0073	0.3162	-0.0070	0.3016
23	18.13	1.80	-0.1164	-0.0072	-0.0867	0.0618	0.7447	1.0372	-0.0069	0.3249	-0.0067	0.3133
24	18.12	1.10	-0.0478	-0.0049	-0.0605	0.1025	1.2746	1.0412	-0.0068	0.3330	-0.0066	0.3199
25	18.12	0.33	-0.0013	-0.0036	-0.0332	2.8672	25.5640	1.1080	-0.0071	0.3309	-0.0064	0.2987
26	18.13	-0.40	0.0407	-0.0052	-0.0044	-0.1290	-0.1090	1.1419	-0.0063	0.3499	-0.0055	0.3064
27	18.11	-1.20	0.1283	-0.0055	0.0145	-0.0429	0.1134	1.1792	-0.0055	0.3747	-0.0047	0.3178
28	18.11	-1.94	0.1405	-0.0039	0.0432	-0.0278	0.3076	1.2259	-0.0057	0.3749	-0.0046	0.3058
29	18.11	-2.79	0.1870	-0.0020	0.0786	-0.0110	0.4204	1.2456	-0.0077	0.3785	-0.0062	0.3039
30	18.13	-3.61	0.2867	0.0012	0.1009	0.0044	0.3520	1.2296	-0.0073	0.3886	-0.0059	0.3161
31	18.12	-4.44	0.3024	0.0019	0.1392	0.0063	0.4602	1.2620	-0.0069	0.3938	-0.0055	0.3121
32	18.11	-5.18	0.4004	0.0050	0.1656	0.0125	0.4136	1.2734	-0.0039	0.3978	-0.0070	0.3124
33	18.14	-5.95	0.4871	0.0055	0.1978	0.0113	0.4061	1.3179	-0.0038	0.3911	-0.0044	0.2968
34	18.13	-6.76	0.5631	0.0049	0.2276	0.0088	0.4040	1.2980	-0.0030	0.3896	-0.0030	0.3002
35	18.13	-7.57	0.6680	0.0077	0.2545	0.0115	0.3810	1.2998	-0.0050	0.3912	-0.0038	0.3010
36	18.16	-8.39	0.7797	0.0096	0.2785	0.0130	0.3765	1.3079	-0.0058	0.3938	-0.0045	0.3011
37	18.15	-9.16	0.8086	0.0108	0.3024	0.0134	0.3740	1.3213	-0.0045	0.3919	-0.0034	0.2966
38	18.16	-9.93	0.8362	0.0095	0.3323	0.0114	0.3774	1.3310	-0.0043	0.3951	-0.0032	0.2969
39	18.20	-10.76	0.9359	0.0094	0.3458	0.0100	0.3694	1.3279	-0.0031	0.3971	-0.0023	0.2990
40	18.22	-11.66	0.9756	0.0057	0.3633	0.0058	0.3724	1.3491	-0.0007	0.3918	-0.0005	0.2905
41	18.21	-12.31	1.0524	0.0048	0.3871	0.0046	0.3678	1.3157	0.0070	0.3900	0.0053	0.2964
42	18.22	-13.07	1.1471	0.0044	0.3995	0.0038	0.3483	1.3390	-0.0006	0.4053	-0.0005	0.3027
43	18.24	-13.82	1.1850	0.0028	0.4142	0.0024	0.3496	1.3706	-0.0000	0.3975	-0.0000	0.2900
44	18.25	-14.73	1.2386	0.0025	0.4339	0.0021	0.3503	1.3775	-0.0032	0.4103	-0.0024	0.2979
45	18.27	-15.50	1.2507	0.0031	0.4444	0.0025	0.3586	1.4361	-0.0021	0.3979	-0.0015	0.2770
46	18.29	-16.33	1.2772	0.0063	0.4526	0.0044	0.3544	1.4423	-0.0036	0.4081	-0.0026	0.2840

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	170	1.01	1.7	0.0	BZNOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	18.34	-17.12	1.3225	0.0138	0.4500	0.0105	0.3402	1.4150	-0.0000	0.4086	-0.0000	0.2888
48	18.33	-17.96	1.3067	0.0289	0.4221	0.0221	0.3230	1.4836	-0.0118	0.4235	-0.0080	0.2854
49	18.35	-18.78	1.3450	0.0304	0.4078	0.0226	0.3032	1.5127	-0.0114	0.4227	-0.0076	0.2794
50	18.35	-19.60	1.1936	0.0338	0.3700	0.0283	0.3100	1.4723	-0.0121	0.4287	-0.0082	0.2912
51	18.36	-20.18	1.1615	0.0308	0.3525	0.0266	0.3035	1.4704	-0.0124	0.4296	-0.0085	0.2921

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	171	1.01	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	21.55	19.21	4.4080	-4.0615	-4.5422	4.5023	0.0850	-0.0058	-0.9214		
2	21.53	18.96	4.4979	-4.2033	-4.3470	4.6380	0.0990	-0.0167	-0.9345		
3	21.53	18.23	4.4978	-4.1952	-4.3760	4.5386	0.1310	-0.0127	-0.9539		
4	21.52	17.26	4.3301	-4.2194	-4.5116	4.3505	0.1620	0.0011	-0.9744		
5	21.50	16.48	4.1950	-4.2191	-3.7809	4.5028	0.2070	0.0784	-1.0058		
6	21.50	15.78	4.1881	-4.0835	-3.8034	4.6578	0.2700	0.0490	-0.9750		
7	21.47	14.91	4.1207	-4.1601	-3.4896	4.6305	0.3130	0.0740	-1.0096		
8	21.46	14.20	4.2006	-4.4270	-3.2719	4.3167	0.3260	0.0867	-1.0539		
9	21.46	13.30	4.1463	-4.6289	-3.2944	4.2322	0.3410	0.0405	-1.1164		
10	21.43	12.63	4.0805	-4.8328	-2.9495	3.8084	0.3540	0.0882	-1.1844		
11	21.39	11.81	4.0999	-5.2289	-2.8393	3.4361	0.3480	0.0618	-1.2754		
12	21.36	11.05	4.0518	-5.3795	-2.4318	3.1735	0.3560	0.0778	-1.3277		
13	21.34	10.25	4.0744	-5.8801	-2.1625	2.8815	0.3740	0.1039	-1.4432		
14	21.33	9.40	4.0637	-6.0551	-1.9460	2.5645	0.3700	0.0908	-1.4901		
15	21.32	8.58	4.0642	-6.1778	-1.6798	2.0357	0.3410	0.1096	-1.5201		
16	21.31	7.83	4.0541	-6.3476	-1.5036	1.8541	0.3480	0.1153	-1.5657		
17	21.27	6.94	4.0660	-6.5132	-1.2534	1.3459	0.3110	0.1274	-1.6019		
18	21.26	6.20	4.2848	-7.0966	-1.0376	0.7157	0.2990	0.1071	-1.6562		
19	21.25	5.32	4.3717	-7.4382	-0.8769	0.5357	0.2600	0.1044	-1.7014		
20	21.24	4.52	4.3942	-7.6977	-0.7903	0.0196	0.2680	0.0855	-1.7518		
21	21.19	3.70	4.2654	-8.0613	-0.7578	0.5360	0.1890	0.0985	-1.8699		
22	21.18	2.96	4.2684	-8.2345	-0.5581	0.1265	0.1600	0.1098	-1.9292		
23	21.19	2.16	4.3184	-8.3185	-0.2716	-0.3057	0.0830	0.1043	-1.9203		
24	21.17	1.40	4.3242	-8.5206	-0.2038	-0.1277	0.0610	0.1156	-1.9704		
25	21.16	0.65	4.3564	-8.5587	-0.0745	-0.2177	0.0260	0.1247	-1.9646		
26	21.21	-0.11	4.4571	-8.3727	-0.0686	0.0600	0.0080	0.1231	-1.8785		
27	21.18	-0.93	4.3474	-8.5461	-0.2172	0.6160	-0.0050	0.1333	-1.9658		
28	21.16	-1.75	4.3168	-8.4722	-0.0568	0.4925	-0.0470	0.1219	-1.9626		
29	21.15	-2.53	4.3017	-8.5301	0.0932	0.3755	-0.1040	0.1280	-1.9829		
30	21.16	-3.32	4.2898	-8.4774	0.3098	0.3662	-0.1330	0.1221	-1.9762		
31	21.17	-4.18	4.2642	-8.1816	0.3811	0.3054	-0.1860	0.1183	-1.9487		
32	21.18	-4.95	4.2376	-7.9574	0.4303	0.1614	-0.2060	0.1317	-1.8778		
33	21.20	-5.75	4.2159	-7.6701	0.6427	-0.2109	-0.2470	0.1324	-1.8193		
34	21.22	-6.53	4.1154	-7.3943	0.8451	-0.5892	-0.3050	0.1400	-1.7968		
35	21.23	-7.33	4.0720	-6.9976	1.1629	-1.0772	-0.3190	0.1391	-1.7185		
36	21.26	-8.16	4.0854	-6.5554	1.1987	-1.2893	-0.3370	0.1542	-1.6046		
37	21.27	-8.95	4.0046	-6.2843	1.4572	-1.7701	-0.3390	0.1414	-1.5643		
38	21.31	-9.75	4.0279	-6.0570	1.6544	-2.1032	-0.3410	0.1361	-1.5038		
39	21.32	-10.51	4.0240	-5.7845	1.9449	-2.6209	-0.3500	0.1231	-1.4375		
40	21.34	-11.34	4.0064	-5.5709	2.0715	-2.8541	-0.3230	0.1228	-1.3905		
41	21.35	-12.03	4.0672	-5.3291	2.3286	-3.1031	-0.3260	0.1253	-1.3103		
42	21.39	-12.86	4.0875	-5.0345	2.6208	-3.5211	-0.3280	0.1169	-1.2317		
43	21.36	-13.68	4.0623	-4.8993	2.8300	-3.8601	-0.3210	0.1077	-1.2060		
44	21.40	-14.53	4.0788	-4.6114	2.9889	-4.0115	-0.2890	0.0999	-1.1306		
45	21.41	-15.34	4.1078	-4.5670	3.1546	-4.1475	-0.2480	0.0961	-1.1116		
46	21.40	-16.18	4.1164	-4.3451	3.4055	-4.4607	-0.2110	0.0863	-1.0556		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		171	1.01	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	21.45	-16.98	4.2200	-4.2573	3.6165	-4.4542	-0.1660	0.0817	-1.0088				
48	21.47	-17.84	4.2889	-4.2897	3.9280	-4.3373	-0.1120	0.0634	-1.0002				
49	21.46	-18.64	4.3098	-4.1970	4.2003	-4.3447	-0.0580	0.0664	-0.9738				
50	21.46	-19.50	4.2897	-4.1809	4.3044	-4.0135	0.0410	0.0603	-0.9746				
51	21.49	-19.94	4.3747	-4.0929	4.4017	-3.6867	0.1110	0.0543	-0.9356				

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	171	1.01	1.7	0.0	BZMOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.55	19.21	-0.4141	0.0524	-0.1629	-0.1265	0.3933	0.7302	0.0397	0.0861	0.0544	0.1180
2	21.53	18.96	-0.3686	0.0536	-0.1723	-0.1453	0.4075	0.7006	0.0401	0.0895	0.0572	0.1277
3	21.53	18.23	-0.3368	0.0520	-0.1580	-0.1543	0.4692	0.7149	0.0401	0.0904	0.0561	0.1265
4	21.52	17.26	-0.3392	0.0493	-0.1408	-0.1454	0.4151	0.7065	0.0401	0.0908	0.0568	0.1286
5	21.50	16.48	-0.2676	0.0465	-0.1275	-0.1739	0.4767	0.6980	0.0395	0.0840	0.0566	0.1204
6	21.50	15.78	-0.2390	0.0416	-0.1068	-0.1742	0.4470	0.5952	0.0403	0.0811	0.0677	0.1363
7	21.47	14.91	-0.1972	0.0368	-0.0811	-0.1868	0.4113	0.4324	0.0395	0.0819	0.0913	0.1894
8	21.46	14.20	-0.1726	0.0378	-0.0828	-0.2190	0.4798	0.4579	0.0399	0.0695	0.0872	0.1518
9	21.46	13.30	-0.1151	0.0350	-0.0712	-0.3045	0.6191	0.4853	0.0400	0.0534	0.0824	0.1101
10	21.43	12.63	-0.0972	0.0357	-0.0729	-0.3677	0.7499	0.4838	0.0400	0.0511	0.0828	0.1057
11	21.39	11.81	-0.0989	0.0365	-0.0620	-0.3695	0.6275	0.5028	0.0401	0.0489	0.0798	0.0972
12	21.36	11.05	-0.0735	0.0341	-0.0509	-0.4639	0.6924	0.5093	0.0401	0.0405	0.0787	0.0796
13	21.34	10.25	0.0348	0.0300	-0.0265	0.8634	-0.7616	0.5159	0.0399	0.0479	0.0773	0.0929
14	21.33	9.40	0.0388	0.0249	-0.0145	0.6416	-0.3730	0.5247	0.0392	0.0464	0.0748	0.0884
15	21.32	8.58	0.0492	0.0328	-0.0071	0.6665	-0.1444	0.5414	0.0395	0.0453	0.0729	0.0837
16	21.31	7.83	0.1592	0.0315	0.0092	0.1981	0.0581	0.5054	0.0388	0.0387	0.0768	0.0766
17	21.27	6.94	0.1012	0.0436	0.0096	0.4312	0.0951	0.5159	0.0392	0.0308	0.0761	0.0598
18	21.26	6.20	0.2628	0.0338	0.0396	0.1288	0.1506	0.5989	0.0388	0.0671	0.0648	0.1120
19	21.25	5.32	0.2543	0.0275	0.0627	0.1083	0.2467	0.6026	0.0389	0.0816	0.0646	0.1354
20	21.24	4.52	0.3466	0.0039	0.1095	0.0112	0.3159	0.6057	0.0354	0.1056	0.0584	0.1744
21	21.19	3.70	0.2013	0.0132	0.0687	0.0658	0.3412	0.6236	0.0352	0.1081	0.0565	0.1734
22	21.18	2.96	0.2164	0.0264	0.0631	0.1222	0.2916	0.6209	0.0352	0.1070	0.0567	0.1723
23	21.19	2.16	0.1807	0.0398	0.0343	0.2202	0.1899	0.6036	0.0343	0.1155	0.0568	0.1914
24	21.17	1.40	0.1622	0.0303	0.0152	0.1868	0.0940	0.5048	0.0334	0.1312	0.0662	0.2599
25	21.16	0.65	0.1109	0.0301	0.0051	0.2714	0.0456	0.4383	0.0332	0.1398	0.0758	0.3188
26	21.21	-0.11	-0.0318	0.0044	0.0036	-0.1383	-0.1133	0.3815	0.0332	0.1214	0.0870	0.3183
27	21.18	-0.93	-0.1220	-0.0197	-0.0148	0.1619	0.1217	0.4201	0.0332	0.0875	0.0790	0.2083
28	21.16	-1.75	-0.1523	-0.0149	-0.0355	0.0578	0.2334	0.3594	0.0327	0.0914	0.0911	0.2542
29	21.15	-2.53	-0.2394	-0.0243	-0.0577	0.1015	0.2409	0.3812	0.0334	0.0734	0.0877	0.1926
30	21.16	-3.32	-0.2828	-0.0316	-0.0602	0.1119	0.2127	0.3666	0.0327	0.0595	0.0893	0.1622
31	21.17	-4.18	-0.2916	-0.0283	-0.0888	0.0972	0.3044	0.3875	0.0327	0.0481	0.0845	0.1242
32	21.18	-4.95	-0.3345	-0.0467	-0.0611	0.1395	0.1826	0.3332	0.0318	0.0360	0.0954	0.1079
33	21.20	-5.75	-0.2981	-0.0485	-0.0691	0.1626	0.2316	0.3455	0.0314	0.0254	0.0908	0.0734
34	21.22	-6.53	-0.2658	-0.0402	-0.0780	0.1512	0.2933	0.3427	0.0307	0.0142	0.0897	0.0415
35	21.23	-7.33	-0.2418	-0.0493	-0.0780	0.2039	0.1157	0.3146	0.0297	-0.0011	0.0945	-0.0036
36	21.26	-8.16	-0.1900	-0.0415	-0.0360	0.2184	0.1895	0.2985	0.0288	-0.0088	0.0966	-0.0295
37	21.27	-8.95	-0.1504	-0.0414	-0.0106	0.2613	0.0668	0.2165	0.0279	-0.0124	0.1288	-0.0571
38	21.31	-9.75	-0.0604	-0.0405	0.0039	0.6657	-0.0642	0.2169	0.0267	-0.0304	0.1233	-0.1403
39	21.32	-10.51	-0.0200	-0.0354	0.0050	1.7016	-0.2389	0.2198	0.0260	-0.0430	0.1185	-0.1954
40	21.34	-11.34	0.0147	-0.0373	0.0252	-2.5404	1.7142	0.1774	0.0249	-0.0532	0.1403	-0.2998
41	21.35	-12.05	0.0279	-0.0352	0.0330	-1.2614	1.1827	0.1289	0.0240	-0.0621	0.1862	-0.4821
42	21.39	-12.06	0.0923	-0.0317	0.0362	-0.3434	0.3928	0.1412	0.0240	-0.0724	0.1703	-0.5131
43	21.36	-13.68	0.1103	-0.0354	0.0522	-0.3213	0.4737	0.1169	0.0233	-0.0795	0.1997	-0.6805
44	21.40	-14.53	0.1833	-0.0398	0.0807	-0.2174	0.4401	0.1026	0.0235	-0.0948	0.2290	-0.9241
45	21.41	-15.34	0.2092	-0.0427	0.0945	-0.2041	0.4518	0.0171	0.0229	-0.0979	1.3419	-5.7253
46	21.40	-16.18	0.2920	-0.0459	0.1068	-0.1571	0.3657	-0.0534	0.0228	-0.1077	-0.4269	2.0167

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	171	1.01	1.7	0.0	02MUF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.45	-16.98	0.2656	-0.0475	0.1401	-0.1790	0.5275	-0.0114	0.0226	-0.1240	-1.9821	10.8771
48	21.47	-17.84	0.3619	-0.0485	0.1390	-0.1340	0.3840	-0.0044	0.0202	-0.1165	-4.6015	26.4923
49	21.46	-18.64	0.3339	-0.0531	0.1693	-0.1590	0.5069	0.0045	0.0225	-0.1342	5.0102	-29.8224
50	21.46	-19.50	0.3815	-0.0577	0.1781	-0.1512	0.4669	0.0052	0.0217	-0.1366	4.1819	-26.2822
51	21.49	-19.94	0.4358	-0.0608	0.1646	-0.1396	0.4222	-0.0568	0.0218	-0.1399	-0.3837	2.4635

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		NX10-6		PHI	CNF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION	
6		171		1.01		1.7	0.0	B2HOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CG3	XCPF3	YCPF3	CNF4	CH4	CG4	XCPF4	YCPF4		
1	21.55	19.21	-1.2397	-0.0234	-0.4367	0.0189	0.3522	0.4628	-0.0500	0.1726	-0.1081	0.3730		
2	21.53	18.96	-1.1887	-0.0239	-0.4456	0.0201	0.3748	0.4270	-0.0513	0.1843	-0.1202	0.4316		
3	21.53	18.23	-1.2575	-0.0202	-0.4586	0.0161	0.3647	0.5001	-0.0566	0.1883	-0.1132	0.3766		
4	21.52	17.26	-1.2516	-0.0174	-0.4571	0.0139	0.3652	0.4856	-0.0558	0.1948	-0.1150	0.4012		
5	21.50	16.48	-1.2127	-0.0058	-0.4792	0.0048	0.3951	0.4938	-0.0506	0.1942	-0.1025	0.3943		
6	21.50	15.78	-1.2596	0.0017	-0.4806	-0.0013	0.3816	0.5523	-0.0472	0.2017	-0.0854	0.3653		
7	21.47	14.91	-1.2200	0.0073	-0.4826	-0.0060	0.3756	0.5623	-0.0445	0.2013	-0.0791	0.3579		
8	21.46	14.20	-1.1676	0.0058	-0.4732	-0.0050	0.4053	0.6075	-0.0442	0.2138	-0.0728	0.3520		
9	21.46	13.30	-1.1431	0.0045	-0.4526	-0.0039	0.3954	0.6439	-0.0421	0.2250	-0.0654	0.3495		
10	21.43	12.63	-1.0785	0.0017	-0.4374	-0.0016	0.4055	0.7054	-0.0399	0.2404	-0.0565	0.3409		
11	21.39	11.81	-0.9728	-0.0004	-0.4171	0.0005	0.4288	0.7322	-0.0370	0.2427	-0.0506	0.3314		
12	21.36	11.05	-0.9043	-0.0037	-0.3950	0.0041	0.4368	0.7732	-0.0333	0.2618	-0.0431	0.3386		
13	21.34	10.25	-0.8574	-0.0058	-0.3743	0.0068	0.4365	0.8298	-0.0323	0.2647	-0.0390	0.3190		
14	21.33	9.40	-0.7381	-0.0079	-0.3536	0.0107	0.4791	0.8869	-0.0270	0.2844	-0.0304	0.3207		
15	21.32	8.58	-0.6443	-0.0083	-0.3245	0.0120	0.4680	0.8750	-0.0259	0.2853	-0.0296	0.3260		
16	21.31	7.83	-0.6289	-0.0112	-0.3006	0.0178	0.4780	0.8964	-0.0247	0.2992	-0.0275	0.3338		
17	21.27	6.94	-0.5832	-0.0115	-0.2614	0.0198	0.4482	0.8955	-0.0231	0.2957	-0.0258	0.3302		
18	21.26	6.20	-0.4743	-0.0126	-0.2400	0.0267	0.5061	0.9352	-0.0211	0.2975	-0.0226	0.3181		
19	21.25	5.32	-0.4187	-0.0128	-0.2096	0.0307	0.5306	0.9792	-0.0194	0.3076	-0.0198	0.3141		
20	21.24	4.52	-0.3635	-0.0144	-0.1833	0.0419	0.5334	0.9681	-0.0149	0.3233	-0.0154	0.3359		
21	21.19	3.70	-0.2376	-0.0141	-0.1601	0.0593	0.6741	1.0669	-0.0128	0.3331	-0.0120	0.3122		
22	21.18	2.96	-0.1729	-0.0119	-0.1291	0.0691	0.7467	1.0495	-0.0103	0.3414	-0.0099	0.3253		
23	21.19	2.16	-0.1416	-0.0081	-0.0865	0.0572	0.6108	1.0715	-0.0092	0.3387	-0.0086	0.3161		
24	21.17	1.40	-0.0314	-0.0065	-0.0705	0.2046	2.2440	1.1712	-0.0078	0.3456	-0.0067	0.2951		
25	21.16	0.65	0.0134	-0.0042	-0.0497	-0.3134	-3.7116	1.1594	-0.0076	0.3598	-0.0066	0.3104		
26	21.21	-0.11	0.0102	-0.0058	-0.0107	-0.5685	-1.0491	1.2084	-0.0066	0.3759	-0.0055	0.3110		
27	21.18	-0.93	0.0984	-0.0036	0.0050	-0.0366	0.0507	1.2754	-0.0046	0.3998	-0.0036	0.3135		
28	21.16	-1.75	0.1198	-0.0020	0.0422	-0.0167	0.3524	1.3437	-0.0049	0.3830	-0.0036	0.2851		
29	21.15	-2.53	0.1944	0.0008	0.0691	0.0043	0.3468	1.3278	-0.0055	0.3991	-0.0041	0.3006		
30	21.16	-3.32	0.2325	0.0023	0.0987	0.0099	0.4244	1.3453	0.0014	0.3951	0.0011	0.2937		
31	21.17	-4.18	0.3195	0.0062	0.1322	0.0194	0.4136	1.3285	0.0022	0.3966	0.0017	0.2985		
32	21.18	-4.95	0.3880	0.0081	0.1578	0.0210	0.4066	1.3106	0.0111	0.3812	0.0085	0.2909		
33	21.20	-5.75	0.4738	0.0100	0.1861	0.0211	0.3927	1.3143	0.0122	0.3685	0.0093	0.2804		
34	21.22	-6.53	0.5416	0.0102	0.2166	0.0189	0.3999	1.2977	0.0123	0.3558	0.0095	0.2742		
35	21.23	-7.33	0.5948	0.0112	0.2540	0.0189	0.4270	1.1798	0.0123	0.3202	0.0105	0.2714		
36	21.26	-8.16	0.7028	0.0096	0.2765	0.0137	0.3734	1.1676	0.0138	0.3299	0.0118	0.2025		
37	21.27	-8.95	0.8141	0.0090	0.2961	0.0111	0.3638	1.1515	0.0123	0.3254	0.0107	0.2826		
38	21.31	-9.75	0.8540	0.0078	0.3281	0.0091	0.3841	1.1450	0.0138	0.3254	0.0121	0.2842		
39	21.32	-10.51	0.9609	0.0076	0.3462	0.0080	0.3603	1.1442	0.0134	0.3251	0.0117	0.2841		
40	21.34	-11.34	1.0491	0.0065	0.3639	0.0062	0.3468	1.1075	0.0134	0.3210	0.0113	0.2715		
41	21.35	-12.05	1.0856	0.0058	0.3901	0.0054	0.3594	1.1713	0.0141	0.3280	0.0121	0.2800		
42	21.39	-12.86	1.1917	0.0052	0.4031	0.0044	0.3382	1.2207	0.0143	0.3187	0.0117	0.2598		
43	21.36	-13.68	1.1914	0.0035	0.4303	0.0029	0.3612	1.1791	0.0147	0.3342	0.0125	0.2834		
44	21.40	-14.53	1.2065	0.0020	0.4378	0.0016	0.3457	1.2355	0.0158	0.3259	0.0128	0.2622		
45	21.41	-15.34	1.3579	0.0008	0.4483	0.0006	0.3301	1.2147	0.0163	0.3367	0.0134	0.2772		
46	21.40	-16.18	1.3716	0.0013	0.4625	0.0011	0.3372	1.2310	0.0176	0.3410	0.0143	0.2770		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RAIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	171	1.01	1.7	0.0	B2NOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.45	-16.98	1.3935	0.0085	0.4587	0.0061	0.3291	1.2971	0.0176	0.3371	0.0136	0.2599
48	21.47	-17.84	1.3403	0.0267	0.4370	0.0199	0.3261	1.2318	0.0179	0.3643	0.0146	0.2957
49	21.46	-18.64	1.3808	0.0313	0.4166	0.0227	0.3017	1.2548	0.0183	0.3719	0.0146	0.2964
50	21.46	-19.50	1.2244	0.0316	0.3773	0.0258	0.3081	1.3199	0.0186	0.3676	0.0141	0.2785
51	21.49	-19.94	1.1815	0.0306	0.3538	0.0259	0.2994	1.2944	0.0180	0.3751	0.0139	0.2898

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	172	1.05	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	19.55	0.1719	-0.1736	-3.9170	7.9775	-0.0390	0.2278	-1.0102	
2	0.02	19.54	0.1252	-0.1503	-3.9921	8.0616	-0.0330	0.2311	-1.2003	
3	0.01	19.41	0.1332	-0.2155	-3.9774	8.0810	-0.0350	0.2218	-1.6177	
4	0.0	18.52	0.1036	-0.0670	-3.8409	7.8849	-0.0260	0.2123	-0.6471	
5	0.01	17.72	0.0631	0.0057	-3.8666	7.8249	-0.0320	0.2148	0.0897	
6	0.01	16.90	0.0682	-0.0045	-3.6203	7.6611	-0.0310	0.2140	-0.0657	
7	0.01	16.14	0.0124	0.2666	-3.5086	7.4688	-0.0220	0.2179	21.5032	
8	0.01	15.39	0.0028	0.1271	-3.0853	6.9991	-0.0170	0.2412	45.5857	
9	0.01	14.62	0.0030	0.1138	-3.0254	6.8302	-0.0110	0.2173	37.9333	
10	-0.01	13.80	-0.0204	0.2085	-2.8211	6.5222	-0.0050	0.2262	-10.2235	
11	0.02	13.07	-0.0047	0.2226	-2.5926	6.1413	-0.0020	0.2339	-47.3575	
12	0.02	12.31	0.0324	0.1636	-2.4381	5.8300	-0.0070	0.2363	5.0506	
13	0.01	11.54	-0.0104	0.1585	-2.3514	5.6296	0.0080	0.2255	-15.2462	
14	0.0	10.72	-0.0181	0.2063	-2.1524	5.2751	0.0090	0.2272	-11.4000	
15	-0.01	9.95	0.0121	0.1220	-2.0752	5.0050	0.0016	0.2277	10.0876	
16	0.01	9.16	0.0121	0.1170	-1.8058	4.5458	0.0060	0.2376	9.6744	
17	0.01	8.31	0.0017	0.1186	-1.7250	4.3587	0.0130	0.2280	69.7764	
18	0.01	7.50	-0.0186	0.1520	-1.5536	3.9538	0.0160	0.2310	-8.1742	
19	-0.01	6.75	-0.0259	0.1372	-1.3618	3.6093	0.0160	0.2365	-5.2996	
20	0.01	5.94	0.0275	0.0405	-1.1552	3.1131	0.0140	0.2353	1.4727	
21	0.01	5.13	0.0217	0.0126	-1.1667	2.8953	0.0170	0.2359	0.5816	
22	-0.01	4.32	0.0074	0.0526	-0.8452	2.2981	0.0150	0.2331	7.1135	
23	0.01	3.56	0.0172	0.0359	-0.7904	2.0454	0.0170	0.2343	2.0884	
24	0.0	2.79	0.0042	0.0311	-0.5924	1.6423	0.0130	0.2379	3.3829	
25	-0.01	2.00	0.0039	0.0185	-0.4757	1.2830	0.0140	0.2408	4.7538	
26	0.0	1.24	0.0223	0.0038	-0.3243	0.8919	0.0130	0.2526	0.1695	
27	0.0	0.49	0.0518	-0.0705	-0.2062	0.5796	0.0110	0.2562	-1.3614	
28	-0.01	-0.31	0.0187	-0.0202	-0.0870	0.2008	0.0140	0.2669	-1.0791	
29	0.0	-1.07	0.0355	-0.0347	0.1294	-0.1851	0.0130	0.2708	-0.9775	
30	0.0	-1.91	0.0377	-0.0448	0.2320	-0.4227	0.0100	0.2685	-1.1878	
31	0.01	-2.69	0.0405	-0.0267	0.3349	-0.7818	0.0130	0.2736	-0.6593	
32	-0.02	-3.56	0.0434	-0.0428	0.4641	-1.1737	0.0110	0.2729	-0.9853	
33	0.01	-4.30	0.0523	-0.0562	0.5839	-1.4664	0.0090	0.2726	-1.0750	
34	0.0	-5.12	0.0232	-0.0245	0.7402	-1.9562	0.0180	0.2738	-1.0552	
35	-0.01	-5.83	0.0368	-0.0525	0.8573	-2.2091	0.0090	0.2759	-1.4272	
36	-0.01	-6.66	0.0507	-0.0370	1.1129	-2.7468	0.0080	0.2759	-0.7294	
37	0.0	-7.44	0.0404	-0.0995	1.1576	-2.9185	0.0130	0.2907	-2.4644	
38	-0.02	-8.23	0.0162	-0.0637	1.3666	-3.4781	0.0140	0.2884	-1.7591	
39	0.0	-9.03	0.0449	-0.0549	1.5633	-3.9094	0.0120	0.2915	-1.2218	
40	0.0	-9.87	0.0246	-0.0734	1.6377	-4.1655	0.0100	0.2888	-2.9854	
41	0.0	-10.61	0.0642	-0.1699	1.9179	-4.5989	0.0120	0.2793	-2.6461	
42	-0.02	-11.30	0.0435	-0.1769	2.0032	-4.8863	0.0120	0.2736	-4.0667	
43	0.0	-12.13	0.0645	-0.1813	2.1635	-5.2736	0.0080	0.2690	-2.8109	
44	0.0	-12.87	0.0755	-0.1927	2.4584	-5.6834	0.0	0.2604	-2.5523	
45	-0.01	-13.68	0.0447	-0.1996	2.5132	-5.9691	-0.0040	0.2591	-4.4649	
46	-0.01	-14.50	0.0741	-0.2987	2.6975	-6.1343	-0.0050	0.2502	-4.0316	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		172	1.05	1.7		0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	-0.03	-15.33	0.0394	-0.2331	2.9263	-6.5485	-0.0140	0.2589	-5.9178				
48	-0.01	-16.09	0.0608	-0.2481	3.0885	-6.7786	-0.0030	0.2540	-4.0809				
49	-0.02	-16.98	0.0480	-0.1482	3.1985	-7.0915	-0.0070	0.2671	-3.0875				
50	0.0	-17.78	0.0426	-0.1596	3.3884	-7.3554	-0.0080	0.2632	-3.7474				
51	0.0	-18.68	0.0994	-0.2411	3.7090	-7.7013	-0.0050	0.2650	-2.4262				
52	-0.02	-19.46	0.0932	-0.3054	3.9118	-7.9132	-0.0010	0.2743	-3.2777				
53	-0.03	-20.29	0.0951	-0.3941	4.0538	-8.1080	-0.0010	0.2840	-4.1445				
54	-0.03	-20.73	0.1826	-0.6626	4.2152	-8.2520	-0.0030	0.2663	-3.6289				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	172	1.05	1.7	0.0	BZNOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CN1	CH1	CH2	XC1	YC1	CN2	CH2	CB2	XC2	YC2
1	0.02	19.55	-1.2499	0.0091	-0.3552	-0.0073	0.2842	-0.4412	0.0347	-0.2199	-0.0787	0.4984
2	0.02	19.54	-1.2933	0.0090	-0.3562	-0.0070	0.2755	-0.4665	0.0350	-0.2251	-0.0750	0.4826
3	0.01	19.41	-1.2531	0.0091	-0.3632	-0.0073	0.2898	-0.4579	0.0348	-0.2191	-0.0760	0.4784
4	0.0	18.52	-1.2330	0.0091	-0.3481	-0.0074	0.2823	-0.4449	0.0348	-0.2254	-0.0782	0.5067
5	0.01	17.72	-1.2330	0.0088	-0.3481	-0.0071	0.2823	-0.4486	0.0350	-0.2268	-0.0780	0.5055
6	0.01	16.90	-1.1792	0.0077	-0.3461	-0.0065	0.2939	-0.4502	0.0348	-0.2238	-0.0773	0.4971
7	0.01	16.14	-1.1395	0.0064	-0.3297	-0.0056	0.2893	-0.4659	0.0350	-0.2257	-0.0752	0.4845
8	0.01	15.39	-1.0690	0.0061	-0.3240	-0.0058	0.3031	-0.4696	0.0349	-0.2243	-0.0743	0.4776
9	0.01	14.62	-1.0600	0.0057	-0.3093	-0.0054	0.2918	-0.4678	0.0350	-0.2296	-0.0749	0.4907
10	-0.01	13.80	-1.0224	0.0056	-0.2962	-0.0055	0.2897	-0.4635	0.0349	-0.2310	-0.0753	0.4984
11	0.02	13.07	-0.9381	0.0058	-0.3022	-0.0062	0.3221	-0.4858	0.0349	-0.2311	-0.0719	0.4756
12	0.02	12.31	-0.9276	0.0058	-0.2764	-0.0063	0.2980	-0.4737	0.0349	-0.2297	-0.0736	0.4850
13	0.01	11.54	-0.8453	0.0067	-0.2714	-0.0080	0.3216	-0.4836	0.0350	-0.2299	-0.0724	0.4755
14	0.0	10.72	-0.8413	0.0055	-0.2545	-0.0066	0.3024	-0.4979	0.0348	-0.2349	-0.0700	0.4718
15	-0.01	9.95	-0.7486	0.0054	-0.2497	-0.0072	0.3336	-0.4572	0.0349	-0.2282	-0.0764	0.4992
16	0.01	9.16	-0.7051	0.0063	-0.2365	-0.0090	0.3355	-0.4897	0.0349	-0.2286	-0.0712	0.4667
17	0.01	8.31	-0.6581	0.0049	-0.2218	-0.0075	0.3370	-0.4904	0.0349	-0.2343	-0.0711	0.4778
18	0.01	7.50	-0.6402	0.0053	-0.1598	-0.0084	0.3121	-0.5090	0.0350	-0.2350	-0.0687	0.4617
19	-0.01	6.75	-0.5466	0.0052	-0.1935	-0.0096	0.3548	-0.4915	0.0351	-0.2387	-0.0715	0.4856
20	0.01	5.94	-0.4942	0.0049	-0.1737	-0.0099	0.3514	-0.4978	0.0350	-0.2366	-0.0703	0.4752
21	0.01	5.13	-0.4539	0.0056	-0.1501	-0.0123	0.3306	-0.4709	0.0350	-0.2392	-0.0744	0.5079
22	-0.01	4.32	-0.3435	0.0051	-0.1326	-0.0148	0.3859	-0.5042	0.0351	-0.2380	-0.0696	0.4720
23	0.01	3.56	-0.3133	0.0045	-0.1178	-0.0145	0.3760	-0.5112	0.0351	-0.2371	-0.0686	0.4639
24	0.0	2.79	-0.2208	0.0041	-0.1046	-0.0186	0.4736	-0.5193	0.0351	-0.2369	-0.0676	0.4562
25	-0.01	2.00	-0.1670	0.0036	-0.0810	-0.0216	0.4853	-0.5193	0.0351	-0.2367	-0.0676	0.4559
26	0.0	1.24	-0.1336	0.0033	-0.0545	-0.0247	0.4081	-0.4945	0.0351	-0.2393	-0.0711	0.4838
27	0.0	0.49	-0.0788	0.0025	-0.0361	-0.0324	0.4576	-0.4916	0.0351	-0.2387	-0.0714	0.4855
28	-0.01	-0.31	-0.0192	0.0011	-0.0069	-0.0599	0.3593	-0.5013	0.0354	-0.2408	-0.0707	0.4804
29	0.0	-1.07	0.0164	-0.0004	0.0042	-0.0274	0.2539	-0.5140	0.0352	-0.2387	-0.0686	0.4643
30	0.0	-1.91	0.0821	-0.0015	0.0206	-0.0183	0.2504	-0.5001	0.0351	-0.2404	-0.0703	0.4808
31	0.01	-2.69	0.1289	-0.0033	0.0476	-0.0260	0.3697	-0.5110	0.0351	-0.2427	-0.0688	0.4749
32	-0.02	-3.56	0.2023	-0.0045	0.0629	-0.0222	0.3110	-0.5057	0.0352	-0.2419	-0.0697	0.4783
33	0.01	-4.30	0.2433	-0.0055	0.0827	-0.0226	0.3398	-0.5063	0.0351	-0.2415	-0.0694	0.4770
34	0.0	-5.12	0.3121	-0.0066	0.1044	-0.0211	0.3345	-0.5268	0.0353	-0.2441	-0.0671	0.4634
35	-0.01	-5.83	0.3618	-0.0075	0.1182	-0.0207	0.3266	-0.5075	0.0352	-0.2431	-0.0694	0.4790
36	-0.01	-6.66	0.4197	-0.0087	0.1445	-0.0207	0.3451	-0.5216	0.0354	-0.2432	-0.0678	0.4662
37	0.0	-7.44	0.4336	-0.0092	0.1656	-0.0212	0.3819	-0.5169	0.0353	-0.2399	-0.0684	0.4642
38	-0.02	-8.23	0.5338	-0.0104	0.1843	-0.0196	0.3452	-0.4956	0.0353	-0.2459	-0.0713	0.4962
39	0.0	-9.03	0.6405	-0.0109	0.1950	-0.0171	0.3045	-0.5081	0.0354	-0.2428	-0.0696	0.4778
40	0.0	-9.87	0.6612	-0.0118	0.2109	-0.0178	0.3281	-0.5134	0.0356	-0.2444	-0.0693	0.4760
41	0.0	-10.61	0.7230	-0.0135	0.2304	-0.0187	0.3186	-0.5087	0.0359	-0.2424	-0.0706	0.4765
42	-0.02	-11.30	0.7831	-0.0145	0.2390	-0.0186	0.3053	-0.5057	0.0354	-0.2419	-0.0700	0.4783
43	0.0	-12.13	0.7824	-0.0147	0.2641	-0.0188	0.3376	-0.5095	0.0355	-0.2411	-0.0697	0.4731
44	0.0	-12.87	0.8547	-0.0150	0.2736	-0.0176	0.3201	-0.4777	0.0351	-0.2379	-0.0734	0.4979
45	-0.01	-13.68	0.9015	-0.0152	0.2861	-0.0169	0.3174	-0.4674	0.0352	-0.2379	-0.0753	0.5090
46	-0.01	-14.50	0.9218	-0.0145	0.2973	-0.0158	0.3225	-0.4718	0.0359	-0.2350	-0.0761	0.4981

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION		
6	172	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.03	-15.33	0.9863	-0.0151	0.3063	-0.0154	0.3105	-0.4516	0.0352	-0.2339	-0.0779	0.5179
48	-0.01	-16.09	1.0199	-0.0142	0.3146	-0.0140	0.3084	-0.4835	0.0353	-0.2373	-0.0730	0.4908
49	-0.02	-16.98	1.0533	-0.0161	0.3253	-0.0153	0.3088	-0.4824	0.0348	-0.2341	-0.0721	0.4853
50	0.0	-17.78	1.0967	-0.0171	0.3318	-0.0156	0.3026	-0.4814	0.0345	-0.2323	-0.0717	0.4825
51	0.0	-18.68	1.1003	-0.0179	0.3514	-0.0163	0.3194	-0.4911	0.0347	-0.2309	-0.0707	0.4702
52	-0.02	-19.46	1.1332	-0.0184	0.3661	-0.0163	0.3231	-0.4950	0.0364	-0.2275	-0.0736	0.4597
53	-0.03	-20.29	1.2237	-0.0196	0.3606	-0.0160	0.2946	-0.4958	0.0342	-0.2285	-0.0691	0.4609
54	-0.03	-20.73	1.2130	-0.0183	0.3782	-0.0151	0.3118	-0.4706	0.0384	-0.2187	-0.0817	0.4647

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.72	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.55	-1.0205	0.0032	-0.3841	-0.0032	0.3764	-0.0617	0.0138	-0.0079	-0.2244	0.1274
2	0.02	19.54	-0.9620	0.0023	-0.3550	-0.0024	0.4106	-0.0798	0.0160	-0.0089	-0.2011	0.1114
3	0.01	19.41	-0.9883	0.0024	-0.3871	-0.0024	0.3917	-0.0572	0.0182	-0.0048	-0.3181	0.0832
4	0.0	18.52	-0.9443	0.0029	-0.3897	-0.0031	0.4127	-0.0348	0.0078	-0.0096	-0.2241	0.2757
5	0.01	17.72	-0.9476	0.0022	-0.3837	-0.0024	0.4049	-0.0775	0.0129	-0.0114	-0.1671	0.1474
6	0.01	16.90	-0.8873	0.0028	-0.3842	-0.0032	0.4329	-0.0798	0.0093	-0.0112	-0.1165	0.1402
7	0.01	16.14	-0.9079	0.0027	-0.3762	-0.0030	0.4144	-0.0627	-0.0005	-0.0099	0.0080	0.1578
8	0.01	15.39	-0.8199	0.0013	-0.3689	-0.0016	0.4499	-0.0605	0.0010	-0.0065	-0.0174	0.1068
9	0.01	14.62	-0.8532	0.0011	-0.3498	-0.0013	0.4100	-0.0506	-0.0029	-0.0015	0.0454	0.0289
10	-0.01	13.80	-0.8176	0.0005	-0.3364	-0.0007	0.4115	-0.1083	-0.0033	0.0101	0.0309	-0.0934
11	0.02	13.07	-0.7692	0.0009	-0.3320	-0.0012	0.4316	-0.0948	-0.0024	0.0085	0.0253	-0.0896
12	0.02	12.31	-0.6828	0.0009	-0.3306	-0.0013	0.4042	-0.0746	-0.0043	0.0008	0.0583	-0.0113
13	0.01	11.54	-0.6710	-0.0001	-0.3112	0.0002	0.4637	-0.0417	-0.0039	0.0055	0.0935	-0.1320
14	0.0	10.72	-0.6121	-0.0004	-0.2961	0.0007	0.4038	-0.0416	-0.0042	0.0055	0.1021	-0.1331
15	-0.01	9.95	-0.5708	0.0002	-0.2881	-0.0004	0.5047	0.0006	-0.0042	-0.0026	-0.4941	-0.3063
16	0.01	9.16	-0.5432	-0.0005	-0.2673	0.0009	0.4921	-0.0334	-0.0039	0.0132	0.1167	-0.3943
17	0.01	8.31	-0.4760	-0.0010	-0.2590	0.0022	0.5441	-0.0483	-0.0022	0.0155	0.0466	-0.3210
18	0.01	7.50	-0.4307	-0.0001	-0.2416	0.0003	0.5609	-0.0311	-0.0022	0.0164	0.0707	-0.5285
19	-0.01	6.75	-0.4047	-0.0012	-0.2216	0.0031	0.5476	-0.0308	-0.0009	0.0134	0.0308	-0.4363
20	0.01	5.94	-0.3420	-0.0009	-0.1490	0.0026	0.5817	0.0051	-0.0016	0.0092	-0.2843	1.8038
21	0.01	5.13	-0.3168	-0.0012	-0.1753	0.0039	0.5538	-0.0098	-0.0015	0.0134	0.1581	-1.3709
22	-0.01	4.32	-0.2209	-0.0004	-0.1544	0.0018	0.6990	0.0014	-0.0005	0.0091	-0.3928	6.4761
23	0.01	3.56	-0.1591	-0.0005	-0.1418	0.0031	0.8914	-0.0142	-0.0020	0.0177	0.1443	-1.2442
24	0.0	2.79	-0.1549	-0.0012	-0.1123	0.0081	0.7251	-0.0169	-0.0019	0.0143	0.1154	-0.8443
25	-0.01	2.00	-0.1282	-0.0008	-0.0864	0.0062	0.6741	-0.0096	-0.0024	0.0135	0.2500	-1.4064
26	0.0	1.24	-0.0629	-0.0013	-0.0651	0.0215	1.0359	-0.0126	-0.0024	0.0114	0.1904	-0.9049
27	0.0	0.49	-0.0381	-0.0028	-0.0371	0.0748	0.9736	0.0118	-0.0019	0.0109	-0.1652	0.9264
28	-0.01	-0.31	0.0070	-0.0041	-0.0102	-0.5856	-1.4525	0.0174	-0.0019	0.0023	-0.1092	0.1321
29	0.0	-1.07	0.1050	-0.0046	-0.0092	-0.0438	-0.0877	-0.0126	-0.0024	0.0114	0.1904	-0.9049
30	0.0	-1.91	0.1379	-0.0045	0.0155	-0.0330	0.1157	-0.0090	-0.0024	0.0110	0.2666	-1.2223
31	0.01	-2.69	0.1710	-0.0039	0.0418	-0.0228	0.2443	-0.0335	-0.0031	0.0114	0.0940	-0.3414
32	-0.02	-3.36	0.1960	-0.0044	0.0707	-0.0227	0.3608	-0.0343	-0.0024	0.0140	0.0700	-0.4073
33	0.01	-4.30	0.2603	-0.0047	0.0858	-0.0181	0.3298	-0.0090	-0.0025	0.0110	0.2777	-1.2223
34	0.0	-5.12	0.3257	-0.0039	0.1010	-0.0120	0.3102	-0.0046	-0.0039	0.0087	0.8585	-1.8842
35	-0.01	-5.83	0.3298	-0.0037	0.1330	-0.0112	0.4032	-0.0044	-0.0029	0.0068	0.6703	-1.5531
36	-0.01	-6.66	0.3877	-0.0026	0.1576	-0.0068	0.4064	-0.0411	-0.0039	0.0142	0.0961	-0.3456
37	0.0	-7.44	0.4668	-0.0014	0.1659	-0.0030	0.3555	-0.0054	-0.0024	0.0094	-0.4444	1.7406
38	-0.02	-8.23	0.5005	-0.0011	0.1912	-0.0023	0.3820	-0.0147	-0.0032	0.0061	0.2210	-0.4151
39	0.0	-9.03	0.5656	0.0	0.2121	0.0	0.3749	-0.0297	-0.0039	0.0104	0.1330	-0.3503
40	0.0	-9.87	0.6185	0.0002	0.2268	0.0003	0.3667	-0.0079	-0.0030	-0.0003	-0.3860	-0.0339
41	0.0	-10.61	0.6269	0.0014	0.2474	0.0022	0.3954	-0.0184	-0.0032	0.0066	0.1766	-0.3570
42	-0.02	-11.30	0.7009	0.0016	0.2586	0.0074	0.3690	0.0070	-0.0032	0.0036	-0.4642	0.5189
43	0.0	-12.13	0.7487	0.0023	0.2708	0.0031	0.3617	-0.0188	-0.0019	0.0066	0.1010	-0.3530
44	0.0	-12.87	0.7708	0.0038	0.2899	0.0050	0.3762	-0.0358	-0.0029	0.0061	0.0824	-0.1696
45	-0.01	-13.68	0.7935	0.0040	0.3070	0.0050	0.3870	-0.0248	-0.0019	0.0029	0.0766	-0.1184
46	-0.01	-14.50	0.8667	0.0047	0.3104	0.0054	0.3581	-0.0149	-0.0029	0.0061	0.1946	-0.4118

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		172	1.05	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.03	-15.33	0.8907	0.0058	0.3238	0.0005	0.3635	-0.0173	-0.0019	0.0008	0.1098	-0.0483
48	-0.01	-16.09	0.9413	0.0064	0.3304	0.0068	0.3510	0.0039	-0.0022	0.0009	-0.5768	0.2307
49	-0.02	-16.98	0.9539	0.0056	0.3460	0.0059	0.3627	-0.0277	-0.0024	0.0014	0.0866	-0.0495
50	0.0	-17.78	0.9930	0.0057	0.3544	0.0058	0.3569	-0.0423	-0.0022	0.0031	0.0520	-0.0734
51	0.0	-18.68	1.0473	0.0050	0.3592	0.0048	0.3430	-0.0459	-0.0023	0.0035	0.0501	-0.0764
52	-0.02	-19.46	1.0514	0.0053	0.3661	0.0050	0.3482	-0.0520	-0.0013	-0.0008	0.0260	0.0159
53	-0.03	-20.29	1.1167	0.0052	0.3826	0.0047	0.3426	-0.0472	-0.0017	0.0074	0.0360	-0.1562
54	-0.03	-20.73	1.0599	0.0048	0.3866	0.0045	0.3647	-0.0555	-0.0023	0.0002	0.0423	-0.0037

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.73	1.05	1.7	0.0	B2W0F12	U.0	0	0	0	0	FIXED
PUNNT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	3.06	19.50	0.2701	0.3248	-3.9259	7.9829	-0.1110	0.1795	1.2027		
2	3.06	19.29	0.3062	0.1893	-3.9610	7.9121	-0.1139	0.1781	0.6183		
3	3.05	18.57	0.1902	0.5167	-3.9361	7.9192	-0.0810	0.1804	2.7107		
4	3.08	17.75	0.3057	0.1520	-3.6012	7.4824	-0.1160	0.2202	0.4973		
5	3.04	16.93	0.2480	0.2988	-3.6165	7.5588	-0.0840	0.1896	1.2048		
6	3.07	16.13	0.2944	0.0698	-3.2915	7.1667	-0.0690	0.2185	0.2372		
7	3.07	15.36	0.3326	-0.0696	-3.2727	7.1584	-0.0560	0.2073	-0.2094		
8	3.06	14.60	0.3071	-0.0939	-3.2214	7.0096	-0.0530	0.1971	-0.3059		
9	3.02	13.87	0.3431	-0.2023	-2.8251	6.5188	-0.0310	0.2234	-0.5897		
10	3.01	13.05	0.3184	-0.2287	-2.8051	6.3419	-0.0160	0.2081	-0.7185		
11	3.03	12.36	0.3852	-0.4264	-2.4366	5.8939	-0.0010	0.2344	-1.1067		
12	3.03	11.54	0.3884	-0.5238	-2.3540	5.6083	0.0080	0.2245	-1.3485		
13	3.03	10.81	0.4097	-0.6186	-2.0520	5.1225	0.0140	0.2479	-1.5098		
14	3.00	9.97	0.4008	-0.5852	-2.0640	4.9464	0.0260	0.2390	-1.4599		
15	3.01	9.18	0.4523	-0.7923	-1.8574	4.5420	0.0240	0.2382	-1.7515		
16	3.01	8.33	0.4253	-0.7645	-1.6584	4.2105	0.0240	0.2499	-1.7973		
17	2.99	7.57	0.4599	-0.9069	-1.5936	3.9008	0.0220	0.2505	-1.9717		
18	3.00	6.79	0.4712	-0.9297	-1.4564	3.6148	0.0220	0.2498	-1.9729		
19	2.98	6.05	0.4518	-0.9485	-1.0946	3.0392	0.0190	0.2609	-2.1878		
20	2.99	5.17	0.4763	-1.0868	-1.1417	2.8161	0.0190	0.2508	-2.2816		
21	2.99	4.39	0.5096	-1.1664	-0.9349	2.3997	0.0190	0.2535	-2.2888		
22	3.00	3.56	0.5157	-1.2110	-0.7264	1.9058	0.0170	0.2453	-2.3480		
23	2.99	2.84	0.5371	-1.2409	-0.5413	1.4848	0.0130	0.2534	-2.3103		
24	2.99	2.07	0.5329	-1.2970	-0.4831	1.2313	0.0120	0.2536	-2.4338		
25	2.99	1.31	0.5538	-1.3113	-0.4157	0.9680	0.0110	0.2645	-2.3677		
26	2.99	0.54	0.5360	-1.3074	-0.2195	0.5762	0.0140	0.2614	-2.4390		
27	2.97	-0.18	0.5493	-1.3130	-0.0588	0.2183	0.0140	0.2640	-2.3902		
28	3.01	-0.99	0.5422	-1.3260	0.1204	-0.0895	0.0110	0.2729	-2.4455		
29	2.99	-1.76	0.5217	-1.2934	0.1672	-0.3390	0.0150	0.2764	-2.4790		
30	3.00	-2.59	0.5440	-1.2966	0.3680	-0.7531	0.0130	0.2763	-2.3833		
31	2.99	-3.38	0.5262	-1.2727	0.4150	-1.0310	0.0190	0.2809	-2.4184		
32	3.00	-4.22	0.5144	-1.1911	0.5886	-1.4480	0.0160	0.2770	-2.3155		
33	2.99	-5.00	0.5318	-1.2375	0.6907	-1.7784	0.0090	0.2853	-2.3269		
34	2.99	-5.77	0.5011	-1.1555	0.9414	-2.2648	0.0130	0.2886	-2.3058		
35	2.98	-6.51	0.5096	-1.1274	0.9706	-2.4519	0.0140	0.2810	-2.2122		
36	3.03	-7.37	0.4885	-0.9959	1.1814	-2.9326	0.0090	0.2835	-2.1256		
37	3.02	-8.10	0.4870	-1.0178	1.3224	-3.3192	0.0080	0.2897	-2.0878		
38	3.01	-8.92	0.4478	-0.9029	1.4955	-3.6265	0.0070	0.2978	-2.0162		
39	3.01	-9.68	0.4542	-0.8389	1.6059	-3.9930	0.0050	0.2978	-1.8468		
40	3.00	-10.51	0.4396	-0.8445	1.8134	-4.3545	0.0030	0.2869	-1.9208		
41	3.03	-11.23	0.4403	-0.7845	1.9279	-4.7389	-0.0010	0.2908	-1.7815		
42	3.01	-12.02	0.3907	-0.6320	2.1672	-5.1528	0.0040	0.2791	-1.6175		
43	3.01	-12.77	0.3814	-0.5989	2.2838	-5.3880	0.0070	0.2821	-1.5704		
44	3.04	-13.48	0.3607	-0.4919	2.5387	-5.8578	0.0040	0.2668	-1.3640		
45	3.04	-14.38	0.3540	-0.4925	2.6479	-6.0517	0.0190	0.2682	-1.3915		
46	3.04	-15.17	0.3145	-0.2933	2.8869	-6.5074	0.0260	0.2690	-0.9390		

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6.	173	1.05	1.7	0.0	82NOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	3.05	-15.96	0.3210	-0.2344	3.1048	-6.8614	0.0470	0.2416	-0.7302		
48	3.05	-16.82	0.3302	-0.1893	3.2383	-7.1382	0.0670	0.2398	-0.5732		
49	3.04	-17.62	0.3561	-0.2095	3.3814	-7.3076	0.0870	0.2259	-0.5884		
50	3.05	-18.46	0.2651	-0.0791	3.6233	-7.7063	0.0660	0.2136	-0.2985		
51	3.06	-19.36	0.2896	-0.0504	3.7369	-7.8503	0.1040	0.2247	-0.1742		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.73	1.05	1.7	0.0	B2M0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.06	19.50	-1.0335	0.0098	-0.3195	-0.0095	0.3091	-0.2199	0.0360	-0.1380	-0.1639	0.6279
2	3.06	19.29	-1.0607	0.0089	-0.3219	-0.0084	0.3035	-0.2133	0.0358	-0.1318	-0.1678	0.6178
3	3.05	18.57	-0.9806	0.0088	-0.3201	-0.0090	0.3264	-0.2287	0.0358	-0.1359	-0.1565	0.5943
4	3.08	17.75	-1.0090	0.0086	-0.3089	-0.0086	0.3062	-0.2181	0.0359	-0.1340	-0.1646	0.6147
5	3.04	16.93	-1.0191	0.0069	-0.3004	-0.0068	0.2948	-0.2281	0.0354	-0.1384	-0.1552	0.6068
6	3.07	16.13	-0.9502	0.0066	-0.2953	-0.0070	0.3108	-0.2193	0.0351	-0.1398	-0.1600	0.6378
7	3.07	15.36	-0.9572	0.0063	-0.2820	-0.0066	0.2946	-0.2166	0.0352	-0.1407	-0.1625	0.6499
8	3.06	14.60	-0.9030	0.0061	-0.2838	-0.0068	0.3143	-0.2217	0.0357	-0.1474	-0.1610	0.6652
9	3.02	13.87	-0.8747	0.0072	-0.2657	-0.0082	0.3037	-0.2267	0.0356	-0.1390	-0.1570	0.6133
10	3.01	13.05	-0.8394	0.0071	-0.2547	-0.0085	0.3034	-0.2424	0.0360	-0.1495	-0.1487	0.6170
11	3.03	12.36	-0.7771	0.0080	-0.2516	-0.0104	0.3238	-0.2428	0.0360	-0.1460	-0.1484	0.6013
12	3.03	11.54	-0.7117	0.0086	-0.2423	-0.0121	0.3405	-0.2406	0.0359	-0.1469	-0.1494	0.6109
13	3.03	10.81	-0.7133	0.0100	-0.2199	-0.0140	0.3083	-0.2528	0.0358	-0.1472	-0.1416	0.5824
14	3.00	9.97	-0.6322	0.0097	-0.2208	-0.0154	0.3492	-0.2681	0.0356	-0.1509	-0.1329	0.5630
15	3.01	9.18	-0.6091	0.0107	-0.2081	-0.0176	0.3416	-0.2439	0.0356	-0.1507	-0.1459	0.6182
16	3.01	8.33	-0.5728	0.0105	-0.2050	-0.0183	0.3491	-0.2722	0.0358	-0.1542	-0.1317	0.5665
17	2.99	7.57	-0.5501	0.0110	-0.1822	-0.0201	0.3312	-0.2752	0.0355	-0.1522	-0.1289	0.5530
18	3.00	6.79	-0.4980	0.0103	-0.1762	-0.0207	0.3539	-0.2906	0.0357	-0.1543	-0.1228	0.5310
19	2.98	6.05	-0.4236	0.0092	-0.1626	-0.0218	0.3837	-0.2675	0.0355	-0.1576	-0.1327	0.5093
20	2.99	5.17	-0.3933	0.0093	-0.1399	-0.0236	0.3596	-0.2643	0.0353	-0.1582	-0.1337	0.5988
21	2.99	4.39	-0.3338	0.0087	-0.1228	-0.0261	0.3680	-0.2900	0.0349	-0.1568	-0.1205	0.5407
22	3.00	3.56	-0.2346	0.0084	-0.1087	-0.0358	0.4632	-0.2673	0.0342	-0.1566	-0.1279	0.5861
23	2.99	2.84	-0.1765	0.0077	-0.0966	-0.0439	0.5474	-0.2731	0.0344	-0.1605	-0.1259	0.5877
24	2.99	2.07	-0.1823	0.0075	-0.0627	-0.0411	0.3442	-0.2607	0.0342	-0.1598	-0.1314	0.6132
25	2.99	1.31	-0.1195	0.0052	-0.0555	-0.0435	0.4646	-0.2876	0.0342	-0.1609	-0.1190	0.5595
26	2.99	0.54	-0.0592	0.0034	-0.0299	-0.0583	0.5055	-0.2863	0.0341	-0.1656	-0.1190	0.5783
27	2.97	-0.18	-0.0426	0.0011	-0.0115	-0.0258	0.2698	-0.3200	0.0339	-0.1668	-0.1060	0.5213
28	3.01	-0.99	0.0518	-0.0004	-0.0035	-0.0087	-0.0683	-0.3146	0.0341	-0.1633	-0.1083	0.5191
29	2.99	-1.76	0.0615	-0.0026	0.0194	-0.0423	0.3153	-0.3223	0.0341	-0.1712	-0.1059	0.5311
30	3.00	-2.59	0.1330	-0.0042	0.0353	-0.0316	0.2655	-0.3104	0.0335	-0.1700	-0.1079	0.5477
31	2.99	-3.38	0.1542	-0.0061	0.0560	-0.0399	0.3630	-0.3287	0.0334	-0.1764	-0.1016	0.5367
32	3.00	-4.22	0.2383	-0.0084	0.0764	-0.0355	0.3206	-0.3407	0.0328	-0.1804	-0.0964	0.5295
33	2.99	-5.00	0.2567	-0.0095	0.0925	-0.0372	0.3605	-0.3420	0.0322	-0.1786	-0.0943	0.5220
34	2.99	-5.77	0.3401	-0.0112	0.1103	-0.0331	0.3244	-0.3394	0.0317	-0.1840	-0.0935	0.5421
35	2.98	-6.51	0.3539	-0.0119	0.1270	-0.0336	0.3509	-0.3579	0.0307	-0.1885	-0.0859	0.5265
36	3.03	-7.37	0.4375	-0.0130	0.1385	-0.0297	0.3165	-0.3832	0.0295	-0.1875	-0.0769	0.4892
37	3.02	-8.10	0.4585	-0.0134	0.1564	-0.0293	0.3411	-0.3796	0.0286	-0.1918	-0.0753	0.5052
38	3.01	-8.92	0.5154	-0.0147	0.1699	-0.0286	0.3297	-0.3837	0.0277	-0.1951	-0.0723	0.5083
39	3.01	-9.68	0.5666	-0.0152	0.1892	-0.0269	0.3339	-0.3996	0.0265	-0.1992	-0.0663	0.4986
40	3.00	-10.51	0.6087	-0.0165	0.1951	-0.0271	0.3206	-0.3968	0.0252	-0.2037	-0.0635	0.5134
41	3.03	-11.23	0.6103	-0.0162	0.2188	-0.0266	0.3584	-0.4383	0.0241	-0.2004	-0.0551	0.4573
42	3.01	-12.02	0.6803	-0.0155	0.2250	-0.0228	0.3507	-0.4755	0.0229	-0.2038	-0.0481	0.4287
43	3.01	-12.77	0.6860	-0.0155	0.2391	-0.0226	0.3485	-0.4641	0.0222	-0.2121	-0.0479	0.4571
44	3.04	-13.48	0.7719	-0.0156	0.2431	-0.0202	0.3150	-0.4806	0.0217	-0.2168	-0.0452	0.4512
45	3.04	-14.38	0.7937	-0.0148	0.2520	-0.0186	0.3175	-0.5229	0.0216	-0.2255	-0.0413	0.4313
46	3.04	-15.17	0.8150	-0.0151	0.2717	-0.0185	0.3333	-0.5312	0.0208	-0.2385	-0.0392	0.4490

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.73	1.05	1.7	0.0	B2M0F12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	3.05	-15.96	0.9181	-0.0141	0.2708	-0.0154	0.2950	-0.5573	0.0209	-0.2478	-0.0376	0.4446
48	3.05	-16.82	0.9511	-0.0140	0.2811	-0.0148	0.2956	-0.5927	0.0220	-0.2674	-0.0372	0.4511
49	3.04	-17.62	0.9484	-0.0144	0.2990	-0.0152	0.3153	-0.6068	0.0226	-0.2740	-0.0373	0.4515
50	3.05	-18.46	1.0021	-0.0161	0.2990	-0.0161	0.2984	-0.5431	0.0207	-0.2765	-0.0381	0.5090
51	3.06	-19.36	1.0563	-0.0164	0.3075	-0.0155	0.2911	-0.6754	0.0218	-0.2788	-0.0323	0.4129

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
173	1.05	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.06	19.50	-1.1137	0.0007	-0.4314	-0.0006	0.3873	-0.2124	-0.0310	-0.0482	0.1462	0.2268
2	3.06	19.29	-1.1141	0.0007	-0.4314	-0.0006	0.3872	-0.2248	-0.0293	-0.0425	0.1303	0.1891
3	3.05	18.57	-1.0718	0.0006	-0.4332	-0.0006	0.4042	-0.2129	-0.0369	-0.0418	0.1733	0.1965
4	3.04	17.75	-1.0726	0.0030	-0.4198	-0.0028	0.3714	-0.2029	-0.0310	-0.0449	0.1528	0.2213
5	3.04	16.93	-1.0621	0.0034	-0.4165	-0.0032	0.3921	-0.2015	-0.0358	-0.0332	0.1779	0.1650
6	3.07	16.13	-0.9872	0.0049	-0.4223	-0.0050	0.4278	-0.1762	-0.0333	-0.0192	0.2230	0.1090
7	3.07	15.36	-0.9704	0.0068	-0.4094	-0.0071	0.4219	-0.1909	-0.0334	-0.0033	0.2066	0.0173
8	3.06	14.60	-0.9411	0.0067	-0.3985	-0.0072	0.4234	-0.0913	-0.0398	-0.0131	0.4364	0.1437
9	3.02	13.87	-0.8825	0.0060	-0.3915	-0.0068	0.4436	-0.0844	-0.0421	0.0056	0.4987	-0.0661
10	3.01	13.05	-0.8339	0.0050	-0.3791	-0.0061	0.4545	-0.0737	-0.0410	0.0141	0.5569	-0.1919
11	3.03	12.36	-0.7910	0.0037	-0.3636	-0.0047	0.4597	-0.0222	-0.0425	0.0349	1.9141	-1.5722
12	3.03	11.54	-0.7869	0.0010	-0.3419	-0.0013	0.4345	-0.0403	-0.0426	0.0523	1.0569	-1.2971
13	3.03	10.81	-0.7025	0.0009	-0.3273	-0.0013	0.4659	0.0006	-0.0404	0.0547	-67.4046	91.1666
14	3.00	9.97	-0.6620	-0.0006	-0.3105	0.0010	0.4696	0.0303	-0.0365	0.0571	-1.2044	1.8844
15	3.01	9.18	-0.5883	-0.0006	-0.2984	0.0010	0.5072	0.0890	-0.0344	0.0583	-0.3864	0.6557
16	3.01	8.33	-0.5323	-0.0028	-0.2793	0.0059	0.5246	0.1003	-0.0281	0.0624	-0.2401	0.6223
17	2.99	7.57	-0.5206	-0.0034	-0.2517	0.0066	0.4834	0.0894	-0.0242	0.0731	-0.2706	0.8176
18	3.00	6.79	-0.4347	-0.0041	-0.2361	0.0095	0.5432	0.1143	-0.0213	0.0720	-0.1863	0.6298
19	2.98	6.05	-0.3684	-0.0041	-0.2192	0.0113	0.5951	0.1182	-0.0186	0.0797	-0.1573	0.6742
20	2.99	5.17	-0.3214	-0.0039	-0.1935	0.0123	0.6020	0.1273	-0.0147	0.0808	-0.1155	0.6349
21	2.99	4.39	-0.2494	-0.0033	-0.1701	0.0134	0.6821	0.1714	-0.0123	0.0731	-0.0720	0.4266
22	3.00	3.59	-0.2006	-0.0035	-0.1437	0.0174	0.7166	0.1426	-0.0104	0.0828	-0.0733	0.5408
23	2.99	2.84	-0.1809	-0.0029	-0.1128	0.0163	0.6234	0.1604	-0.0079	0.0811	-0.0492	0.5059
24	2.99	2.07	-0.0952	-0.0034	-0.0933	0.0362	0.9803	0.1732	-0.0065	0.0830	-0.0378	0.4793
25	2.99	1.31	-0.0033	-0.0032	-0.0657	0.0513	1.0378	0.1671	-0.0052	0.0944	-0.0311	0.5648
26	2.99	0.54	-0.0421	-0.0041	-0.0365	0.0974	0.8677	0.1753	-0.0050	0.0884	-0.0288	0.5044
27	2.97	-0.18	0.0315	-0.0047	-0.0199	-0.1508	-0.6319	0.2027	-0.0052	0.0816	-0.0259	0.4028
28	3.01	-0.99	0.0800	-0.0050	0.0001	-0.0631	0.0007	0.2207	-0.0037	0.0868	-0.0170	0.3935
29	2.99	-1.76	0.1086	-0.0045	0.0215	-0.0414	0.2015	0.1929	-0.0039	0.0899	-0.0205	0.4659
30	3.00	-2.59	0.1576	-0.0041	0.0453	-0.0260	0.2875	0.2010	-0.0024	0.0910	-0.0119	0.4526
31	2.99	-3.38	0.2335	-0.0043	0.0660	-0.0184	0.2827	0.1912	-0.0034	0.0954	-0.0178	0.4990
32	3.00	-4.22	0.2750	-0.0031	0.0978	-0.0113	0.3558	0.1918	-0.0038	0.0893	-0.0198	0.4656
33	2.99	-5.00	0.3377	-0.0033	0.1179	-0.0099	0.3492	0.1972	-0.0023	0.0965	-0.0119	0.4914
34	2.99	-5.77	0.3670	-0.0022	0.1414	-0.0060	0.3892	0.2039	-0.0028	0.0867	-0.0140	0.4754
35	2.98	-6.51	0.4163	-0.0013	0.1664	-0.0032	0.4009	0.1982	-0.0023	0.0945	-0.0119	0.4770
36	3.03	-7.37	0.4643	0.0012	0.1909	0.0026	0.4112	0.1922	-0.0013	0.0891	-0.0068	0.4638
37	3.02	-8.10	0.5460	0.0016	0.2053	0.0030	0.3761	0.2099	-0.0013	0.0882	-0.0064	0.4204
38	3.01	-8.92	0.6183	0.0021	0.2214	0.0034	0.3581	0.1771	-0.0013	0.0904	-0.0073	0.4105
39	3.01	-9.68	0.6348	0.0029	0.2563	0.0046	0.4038	0.2110	-0.0012	0.0846	-0.0057	0.4010
40	3.00	-10.51	0.6924	0.0029	0.2678	0.0043	0.3868	0.2011	-0.0013	0.0698	-0.0065	0.4466
41	3.03	-11.23	0.7517	0.0028	0.2890	0.0038	0.3844	0.2001	-0.0016	0.0878	-0.0080	0.4387
42	3.01	-12.02	0.8226	0.0028	0.3602	0.0034	0.3649	0.2002	-0.0015	0.0810	-0.0077	0.4046
43	3.01	-12.77	0.8519	0.0019	0.3167	0.0022	0.3717	0.2209	-0.0018	0.0837	-0.0081	0.3789
44	3.04	-13.48	0.8958	0.0016	0.3396	0.0018	0.3791	0.1816	-0.0029	0.0938	-0.0160	0.5166
45	3.04	-14.38	0.9584	0.0013	0.3418	0.0014	0.3566	0.2055	-0.0024	0.0910	-0.0117	0.4427
46	3.04	-15.17	1.0023	0.0010	0.3646	0.0010	0.3637	0.1753	-0.0016	0.0889	-0.0091	0.5072

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.73	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.05	-15.96	1.0734	0.0014	0.3712	0.0013	0.3458	0.2298	-0.0032	0.0862	-0.0139	0.3750
48	3.05	-16.82	1.0481	0.0020	0.3915	0.0019	0.3739	0.1829	-0.0031	0.0944	-0.0169	0.5164
49	3.04	-17.62	1.0906	0.0040	0.3563	0.0037	0.3634	0.2359	-0.0031	0.0946	-0.0134	0.4010
50	3.05	-18.46	1.1501	0.0081	0.3911	0.0070	0.3393	0.2180	-0.0023	0.0933	-0.0108	0.4282
51	3.06	-19.36	1.1693	0.0080	0.4060	0.0068	0.3472	0.2112	-0.0013	0.0916	-0.0064	0.4336

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	174	1.05	1.7	0.0	BZMOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.04	19.50	0.7839	-0.5345	-3.9842	7.7516	-0.1520	0.1852	-0.6819	
2	6.11	19.37	0.8016	-0.5683	-3.9235	7.6006	-0.1460	0.1957	-0.7090	
3	6.10	18.57	0.8150	-0.6960	-3.8865	7.6088	-0.1520	0.1856	-0.8541	
4	6.07	17.76	0.7495	-0.5914	-3.8039	7.4212	-0.1240	0.1992	-0.7890	
5	6.04	16.93	0.8521	-0.9290	-3.6248	7.3445	-0.1180	0.1825	-1.0902	
6	6.06	16.19	0.8680	-1.0782	-3.3886	7.2007	-0.1190	0.2094	-1.2422	
7	6.05	15.40	0.8534	-1.1567	-3.2784	6.8464	-0.0800	0.1667	-1.3555	
8	6.05	14.67	0.9109	-1.2982	-3.1491	6.7864	-0.0660	0.1981	-1.4252	
9	6.05	13.90	0.9150	-1.4929	-2.7528	6.3047	-0.0420	0.2199	-1.6317	
10	6.05	13.10	0.9324	-1.5573	-2.7567	6.1441	-0.0320	0.2006	-1.6702	
11	6.04	12.40	0.9477	-1.6717	-2.5427	5.7844	-0.0010	0.2080	-1.7640	
12	6.02	11.65	0.9233	-1.6395	-2.4122	5.5638	-0.0070	0.2160	-1.7758	
13	6.02	10.82	0.9449	-1.7218	-2.2709	5.1230	0.0110	0.2211	-1.8222	
14	6.03	10.08	0.9740	-1.8755	-2.0874	4.8271	0.0130	0.2236	-1.9256	
15	6.02	9.22	0.9961	-2.0894	-1.8695	4.4350	0.0140	0.2250	-2.0976	
16	6.03	8.47	1.0108	-2.1470	-1.6973	4.0970	0.0120	0.2410	-2.1241	
17	6.02	7.67	0.9778	-2.1428	-1.5700	3.7738	0.0230	0.2412	-2.1915	
18	6.01	6.92	1.0267	-2.2862	-1.3436	3.3219	0.0210	0.2422	-2.2268	
19	6.02	6.07	1.0586	-2.4279	-1.2198	2.9616	0.0180	0.2410	-2.2935	
20	5.99	5.28	1.0593	-2.4368	-1.1157	2.6848	0.0210	0.2395	-2.3005	
21	5.98	4.44	1.0670	-2.5246	-0.8850	2.1769	0.0150	0.2459	-2.3662	
22	5.98	3.73	1.0841	-2.6245	-0.7823	1.8491	0.0130	0.2434	-2.4210	
23	6.00	2.93	1.0579	-2.6179	-0.5957	1.4665	0.0100	0.2442	-2.4747	
24	5.97	2.17	1.0741	-2.6705	-0.5084	1.1967	0.0130	0.2542	-2.4864	
25	5.97	1.41	1.1030	-2.7150	-0.3805	0.8646	0.0110	0.2540	-2.4652	
26	5.99	0.68	1.1037	-2.7450	-0.2258	0.5630	0.0140	0.2539	-2.4872	
27	5.97	-0.09	1.0889	-2.7352	-0.1381	0.3943	0.0110	0.2556	-2.5120	
28	5.97	-0.84	1.1314	-2.8077	-0.0043	0.0160	0.0110	0.2587	-2.4817	
29	5.98	-1.66	1.0878	-2.6857	0.0980	-0.2182	0.0180	0.2709	-2.4690	
30	5.97	-2.44	1.0837	-2.6660	0.2190	-0.4955	0.0150	0.2706	-2.4602	
31	5.98	-3.25	1.0698	-2.6415	0.4147	-0.8946	0.0200	0.2747	-2.4693	
32	5.98	-4.05	1.0556	-2.5856	0.5755	-1.2437	0.0200	0.2697	-2.4495	
33	5.98	-4.84	1.0633	-2.5574	0.6148	-1.5257	0.0230	0.2821	-2.4053	
34	5.98	-5.59	1.0439	-2.5113	0.8259	-1.9171	0.0150	0.2841	-2.4057	
35	5.99	-6.43	1.0356	-2.4077	0.9982	-2.3263	0.0130	0.2741	-2.3250	
36	5.99	-7.19	1.0308	-2.3489	1.1284	-2.7235	0.0150	0.2784	-2.2788	
37	5.99	-8.02	1.0182	-2.2803	1.2795	-3.0222	0.0190	0.2781	-2.2396	
38	5.98	-8.80	1.0339	-2.2433	1.3797	-3.3654	0.0200	0.2877	-2.2182	
39	6.03	-9.59	1.0241	-2.1666	1.5673	-3.9180	0.0290	0.2737	-2.1157	
40	5.98	-10.35	0.9907	-2.0718	1.7961	-4.2143	0.0310	0.2765	-2.0914	
41	6.03	-11.11	0.9878	-1.9788	1.9638	-4.5911	0.0270	0.2631	-2.0033	
42	5.99	-11.87	0.9614	-1.9288	2.1251	-4.9839	0.0320	0.2632	-2.0063	
43	6.02	-12.64	0.9444	-1.7981	2.2772	-5.3358	0.0380	0.2543	-1.9040	
44	6.02	-13.37	0.9439	-1.7784	2.4866	-5.6539	0.0340	0.2388	-1.8841	
45	6.02	-14.24	0.8801	-1.5841	2.6987	-6.0819	0.0390	0.2432	-1.7999	
46	6.02	-15.07	0.8998	-1.5607	2.8702	-6.4650	0.0280	0.2251	-1.7345	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	174	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	6.03	-15.83	0.8292	-1.2639	3.0855	-6.7974	0.0460	0.2522	-1.5242		
48	6.04	-16.67	0.8299	-1.2118	3.1462	-6.9483	0.0690	0.2659	-1.4602		
49	6.05	-17.50	0.8069	-1.0287	3.3903	-7.2520	0.0710	0.2552	-1.2748		
50	6.05	-18.39	0.7253	-0.7995	3.5407	-7.4817	0.0880	0.2632	-1.1022		
51	6.09	-19.15	0.6736	-0.5061	3.7224	-7.6521	0.1070	0.2751	-0.7513		
52	6.07	-19.96	0.6866	-0.4803	3.9071	-7.8176	0.1490	0.2610	-0.6995		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	KX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	174	1.05	1.7	0.0	B2MUF12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CH1	CH2	XC PF1	YC PF1	CNF2	CH2	CB2	XC PF2	YC PF2
1	6.08	19.50	-0.9128	0.0167	-0.2927	-0.0183	0.3206	0.0927	0.0381	-0.0683	0.4115	-0.7369
2	6.11	19.37	-0.9166	0.0164	-0.2910	-0.0179	0.3175	0.0921	0.0383	-0.0657	0.4158	-0.7135
3	6.10	18.57	-0.9168	0.0151	-0.2910	-0.0165	0.3174	0.0985	0.0381	-0.0650	0.3872	-0.6597
4	6.07	17.76	-0.9298	0.0151	-0.2780	-0.0163	0.2990	0.0885	0.0381	-0.0726	0.4310	-0.8205
5	6.09	16.93	-0.8768	0.0154	-0.2812	-0.0176	0.3207	0.1071	0.0377	-0.0683	0.3524	-0.6378
6	6.06	16.19	-0.8639	0.0139	-0.2749	-0.0161	0.3182	0.0881	0.0376	-0.0672	0.4273	-0.7633
7	6.05	15.40	-0.8418	0.0156	-0.2613	-0.0185	0.3104	0.0860	0.0371	-0.0694	0.4319	-0.8075
8	6.05	14.67	-0.7941	0.0162	-0.2574	-0.0204	0.3241	0.0983	0.0369	-0.0719	0.3758	-0.7319
9	6.05	13.90	-0.7500	0.0158	-0.2500	-0.0211	0.3333	0.0845	0.0372	-0.0728	0.4402	-0.8621
10	6.05	13.10	-0.7330	0.0168	-0.2368	-0.0230	0.3231	0.0754	0.0367	-0.0751	0.4873	-0.9957
11	6.04	12.40	-0.6879	0.0176	-0.2254	-0.0256	0.3277	0.0572	0.0372	-0.0803	0.6502	-1.4045
12	6.02	11.65	-0.6886	0.0174	-0.2150	-0.0253	0.3123	0.0506	0.0373	-0.0859	0.7370	-1.6984
13	6.02	10.82	-0.6425	0.0180	-0.2067	-0.0280	0.3217	0.0313	0.0376	-0.0877	1.2011	-2.8010
14	6.03	10.08	-0.6104	0.0185	-0.1978	-0.0304	0.3240	0.0294	0.0374	-0.0908	1.2736	-3.0886
15	6.02	9.22	-0.5038	0.0199	-0.1940	-0.0395	0.3850	0.0330	0.0374	-0.0897	1.1331	-2.7183
16	6.03	8.47	-0.5479	0.0192	-0.1700	-0.0351	0.3102	0.0273	0.0375	-0.0933	1.3752	-3.4177
17	6.02	7.67	-0.4673	0.0201	-0.1651	-0.0431	0.3533	0.0309	0.0374	-0.0918	41.5481	-102.0001
18	6.01	6.92	-0.4308	0.0221	-0.1497	-0.0513	0.3474	0.0261	0.0377	-0.0938	1.4442	-3.5940
19	6.02	6.07	-0.3338	0.0203	-0.1505	-0.0609	0.4509	0.0160	0.0372	-0.0954	2.3277	-5.9605
20	5.99	5.28	-0.3225	0.0205	-0.1287	-0.0637	0.3989	0.0026	0.0368	-0.0992	14.1513	-38.1668
21	5.98	4.44	-0.2470	0.0204	-0.1191	-0.0828	0.4822	-0.0038	0.0366	-0.0998	-9.6430	26.2805
22	5.98	3.73	-0.2345	0.0197	-0.0459	-0.0840	0.4091	0.0089	0.0362	-0.1037	4.0667	-11.6555
23	6.00	2.93	-0.1474	0.0181	-0.0909	-0.1231	0.6168	-0.0222	0.0361	-0.1051	-1.6281	4.7341
24	5.97	2.17	-0.1281	0.0157	-0.0707	-0.1229	0.5518	-0.0275	0.0363	-0.1113	-1.3198	4.0496
25	5.97	1.41	-0.0798	0.0123	-0.0568	-0.1547	0.7117	-0.0285	0.0358	-0.1120	-1.2577	3.9297
26	5.99	0.68	-0.0441	0.0071	-0.0340	-0.1610	0.7709	-0.0227	0.0360	-0.1155	-1.5878	5.0909
27	5.97	-0.09	-0.0348	0.0025	-0.0134	-0.0733	0.3849	-0.0443	0.0356	-0.1183	-0.8046	2.6718
28	5.97	-0.84	0.0215	-0.0004	-0.0060	-0.0209	-0.2807	-0.0450	0.0356	-0.1215	-0.7910	2.6999
29	5.98	-1.66	0.0654	-0.0053	0.0128	-0.0818	0.1956	-0.0686	0.0356	-0.1282	-0.5189	1.8697
30	5.97	-2.44	0.0714	-0.0095	0.0330	-0.1330	0.4621	-0.0761	0.0352	-0.1288	-0.4631	1.6933
31	5.98	-3.25	0.1074	-0.0130	0.0592	-0.1215	0.5511	-0.0934	0.0350	-0.1336	-0.3752	1.4306
32	5.98	-4.05	0.1913	-0.0163	0.0606	-0.0852	0.3170	-0.1091	0.0344	-0.1380	-0.3153	1.2654
33	5.98	-4.84	0.2211	-0.0178	0.0840	-0.0807	0.3798	-0.1176	0.0335	-0.1409	-0.2852	1.1980
34	5.98	-5.59	0.2553	-0.0198	0.1002	-0.0777	0.3924	-0.1249	0.0326	-0.1422	-0.2610	1.1387
35	5.99	-6.43	0.2952	-0.0213	0.1196	-0.0721	0.4050	-0.1429	0.0310	-0.1475	-0.2172	1.0323
36	5.99	-7.19	0.3140	-0.0223	0.1377	-0.0711	0.4386	-0.1484	0.0304	-0.1561	-0.2048	1.0522
37	5.99	-8.02	0.3662	-0.0219	0.1462	-0.0598	0.3793	-0.1593	0.0297	-0.1646	-0.1864	1.0332
38	5.98	-8.80	0.4204	-0.0229	0.1568	-0.0546	0.3729	-0.2029	0.0287	-0.1670	-0.1414	0.8231
39	6.03	-9.59	0.4688	-0.0222	0.1745	-0.0473	0.3722	-0.2182	0.0274	-0.1751	-0.1258	0.8025
40	5.98	-10.35	0.5057	-0.0220	0.1884	-0.0436	0.3726	-0.2433	0.0268	-0.1790	-0.1101	0.7360
41	6.03	-11.11	0.5483	-0.0221	0.2002	-0.0404	0.3651	-0.2805	0.0261	-0.1845	-0.0930	0.6575
42	5.99	-11.87	0.6292	-0.0216	0.2024	-0.0344	0.3216	-0.2721	0.0250	-0.1897	-0.0919	0.6974
43	6.02	-12.64	0.6215	-0.0214	0.2162	-0.0345	0.3479	-0.3232	0.0239	-0.1938	-0.0739	0.5995
44	6.02	-13.37	0.6730	-0.0219	0.2209	-0.0325	0.3283	-0.3226	0.0232	-0.1993	-0.0719	0.6177
45	6.02	-14.24	0.7137	-0.0216	0.2344	-0.0303	0.3285	-0.3989	0.0225	-0.2002	-0.0564	0.5019
46	6.02	-15.07	0.7297	-0.0221	0.2416	-0.0303	0.3112	-0.4277	0.0221	-0.1961	-0.0518	0.4589

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		174	1.05	1.7		0.0	B2WUF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	6.03	-15.83	0.7924	-0.0199	0.2463	-0.0252	0.3109	-0.5117	0.0211	-0.2085	-0.0412	0.4075	
48	6.04	-16.67	0.7921	-0.0200	0.2568	-0.0252	0.3243	-0.5643	0.0206	-0.2179	-0.0366	0.3862	
49	6.05	-17.50	0.7988	-0.0208	0.2710	-0.0261	0.3392	-0.5916	0.0192	-0.2153	-0.0325	0.3640	
50	6.05	-18.39	0.8587	-0.0193	0.2751	-0.0225	0.3204	-0.6130	0.0189	-0.2365	-0.0300	0.3857	
51	6.09	-19.15	0.8917	-0.0179	0.2787	-0.0201	0.3126	-0.6230	0.0197	-0.2541	-0.0317	0.4078	
52	6.07	-19.96	0.9313	-0.0191	0.2888	-0.0205	0.3101	-0.5987	0.0213	-0.2779	-0.0356	0.4441	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.74	1.05	1.7	0.0	B2NOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.08	19.50	-1.1556	0.0019	-0.4459	-0.0017	0.3359	-0.1945	-0.0297	-0.0100	0.1529	0.0515
2	6.11	19.37	-1.1573	0.0031	-0.4484	-0.0027	0.3375	-0.2081	-0.0299	-0.0108	0.1437	0.0521
3	6.10	18.57	-1.1289	0.0036	-0.4454	-0.0032	0.3945	-0.1597	-0.0280	-0.0251	0.1756	0.1573
4	6.07	17.76	-1.0918	0.0047	-0.4528	-0.0043	0.4147	-0.1203	-0.0341	-0.0110	0.2838	0.0913
5	6.09	16.93	-1.1230	0.0055	-0.4390	-0.0049	0.3309	-0.1200	-0.0360	0.0033	0.3004	-0.0276
6	6.06	16.19	-1.0677	0.0055	-0.4321	-0.0052	0.4047	-0.1022	-0.0343	0.0018	0.3360	-0.0181
7	6.05	15.40	-0.9899	0.0073	-0.4329	-0.0074	0.4373	-0.0225	-0.0391	0.0296	1.3734	-1.0387
8	6.05	14.67	-0.9777	0.0078	-0.4211	-0.0080	0.4307	0.0329	-0.0392	0.0342	-1.1913	1.0384
9	6.05	13.90	-0.9746	0.0072	-0.4027	-0.0074	0.4132	0.0250	-0.0395	0.0512	-1.5427	2.0012
10	6.05	13.10	-0.9025	0.0060	-0.3927	-0.0066	0.4351	0.0531	-0.0393	0.0659	-0.7409	1.2409
11	6.04	12.40	-0.8689	0.0050	-0.3786	-0.0058	0.4357	0.0867	-0.0394	0.0869	-0.4549	1.0022
12	6.02	11.65	-0.8195	0.0039	-0.3626	-0.0048	0.4425	0.1233	-0.0377	0.0763	-0.3057	0.6187
13	6.02	10.82	-0.7426	0.0013	-0.3483	-0.0018	0.4691	0.1539	-0.0376	0.0942	-0.2443	0.6120
14	6.03	10.08	-0.7093	0.0009	-0.3251	-0.0013	0.4584	0.1433	-0.0359	0.1081	-0.2508	0.7547
15	6.02	9.22	-0.6558	-0.0016	-0.3035	-0.0025	0.4628	0.2113	-0.0331	0.1084	-0.1566	0.5131
16	6.03	8.47	-0.5984	-0.0022	-0.2863	0.0037	0.4784	0.2422	-0.0308	0.1088	-0.1328	0.4684
17	6.02	7.67	-0.5816	-0.0038	-0.2591	0.0066	0.4455	0.2560	-0.0280	0.1154	-0.1096	0.4508
18	6.01	6.92	-0.4277	-0.0045	-0.2513	0.0106	0.5075	0.2884	-0.0244	0.1242	-0.0846	0.4306
19	6.02	6.07	-0.3937	-0.0050	-0.2248	0.0128	0.5709	0.3015	-0.0226	0.1305	-0.0749	0.4327
20	5.99	5.28	-0.3352	-0.0058	-0.2001	0.0174	0.5969	0.3369	-0.0193	0.1309	-0.0574	0.3884
21	5.98	4.44	-0.2884	-0.0055	-0.1708	0.0192	0.5921	0.3351	-0.0154	0.1374	-0.0459	0.4099
22	5.98	3.73	-0.2551	-0.0052	-0.1459	0.0206	0.5719	0.3754	-0.0126	0.1399	-0.0341	0.3726
23	6.00	2.93	-0.1833	-0.0055	-0.1136	0.0300	0.6196	0.3523	-0.0116	0.1494	-0.0329	0.4240
24	5.97	2.17	-0.1495	-0.0046	-0.0901	0.0308	0.6028	0.4100	-0.0106	0.1436	-0.0258	0.3508
25	5.97	1.41	-0.0672	-0.0047	-0.0711	0.0707	1.0579	0.4082	-0.0091	0.1459	-0.0224	0.3575
26	5.99	0.68	-0.0255	-0.0048	-0.0503	0.1882	1.9724	0.3741	-0.0075	0.1628	-0.0200	0.4350
27	5.97	-0.09	0.0481	-0.0049	-0.0273	-0.1029	-0.5670	0.4084	-0.0068	0.1616	-0.0168	0.3956
28	5.97	-0.84	0.0853	-0.0047	-0.0038	-0.0557	-0.0443	0.4186	-0.0060	0.1643	-0.0144	0.3924
29	5.98	-1.66	0.0662	-0.0044	0.0272	-0.0665	0.4103	0.4260	-0.0049	0.1630	-0.0116	0.3825
30	5.97	-2.44	0.1773	-0.0032	0.0400	-0.0180	0.2255	0.4814	-0.0036	0.1585	-0.0076	0.3293
31	5.98	-3.25	0.1899	-0.0016	0.0736	-0.0084	0.3875	0.4552	-0.0036	0.1658	-0.0080	0.3642
32	5.98	-4.05	0.2468	-0.0006	0.1018	-0.0026	0.4126	0.4170	-0.0038	0.1751	-0.0091	0.4198
33	5.98	-4.84	0.2939	0.0005	0.1250	0.0019	0.4254	0.4667	-0.0038	0.1699	-0.0081	0.3641
34	5.98	-5.59	0.3723	0.0012	0.1440	0.0032	0.3867	0.4306	-0.0031	0.1740	-0.0072	0.4040
35	5.99	-6.43	0.4342	0.0022	0.1745	0.0052	0.4018	0.4294	-0.0023	0.1736	-0.0055	0.4042
36	5.99	-7.19	0.5181	0.0027	0.1883	0.0052	0.3635	0.4487	-0.0023	0.1748	-0.0051	0.3896
37	5.99	-8.02	0.5244	0.0023	0.2194	0.0044	0.4194	0.4462	-0.0023	0.1807	-0.0052	0.4049
38	5.98	-8.80	0.6369	0.0028	0.2363	0.0044	0.3710	0.4655	-0.0023	0.1805	-0.0050	0.3878
39	6.03	-9.59	0.6615	0.0017	0.2654	0.0026	0.4012	0.4474	-0.0023	0.1839	-0.0053	0.4110
40	5.98	-10.35	0.7440	0.0014	0.2833	0.0019	0.3808	0.4520	-0.0019	0.1853	-0.0043	0.4100
41	6.03	-11.11	0.7706	0.0008	0.3042	0.0011	0.4012	0.4201	-0.0023	0.1878	-0.0056	0.4470
42	5.99	-11.87	0.8305	0.0013	0.3218	0.0016	0.3875	0.4823	-0.0026	0.1760	-0.0054	0.3649
43	6.02	-12.64	0.9071	-0.0001	0.3428	-0.0002	0.3779	0.5000	-0.0024	0.1787	-0.0049	0.3574
44	6.02	-13.37	0.9859	-0.0009	0.3530	-0.0010	0.3581	0.4854	-0.0036	0.1869	-0.0075	0.3851
45	6.02	-14.24	1.0062	-0.0016	0.3781	-0.0016	0.3757	0.4809	-0.0034	0.1819	-0.0072	0.3783
46	6.02	-15.07	1.0830	-0.0001	0.3848	-0.0001	0.3553	0.5221	-0.0038	0.1859	-0.0073	0.3560

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF3	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	174	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	6.03	-15.83	1.0856	-0.0002	0.4075	-0.0002	0.3754	0.5000	-0.0033	0.1848	-0.0066	0.3696
48	6.04	-16.67	1.1386	0.0007	0.4079	0.0007	0.3582	0.4988	-0.0030	0.1843	-0.0060	0.3695
49	6.05	-17.50	1.1861	0.0033	0.4173	0.0029	0.3578	0.5086	-0.0025	0.1835	-0.0049	0.3607
50	6.05	-18.39	1.1733	0.0040	0.4318	0.0034	0.3681	0.4890	-0.0025	0.1835	-0.0051	0.3753
51	6.09	-19.15	1.2592	0.0044	0.4287	0.0035	0.3404	0.4969	-0.0023	0.1776	-0.0047	0.3574
52	6.07	-19.96	1.2961	0.0061	0.4307	0.0047	0.3323	0.4739	-0.0006	0.1871	-0.0014	0.3948

MARTIN MISSILE FAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	175	1.05	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.11	19.43	1.4027	-1.8748	-4.0328	7.1917	-0.1900	0.1735	-1.3366	
2	9.11	19.30	1.4212	-1.8907	-4.0312	7.2454	-0.1780	0.1650	-1.3303	
3	9.12	18.51	1.4186	-1.8541	-3.9013	7.1736	-0.1760	0.1629	-1.3105	
4	9.11	17.70	1.4505	-2.0667	-3.7935	7.1507	-0.1330	0.1581	-1.4248	
5	9.10	16.93	1.4574	-2.1254	-3.6211	6.9313	-0.1200	0.1669	-1.4583	
6	9.08	16.12	1.4434	-2.3287	-3.5533	6.8494	-0.0900	0.1649	-1.6134	
7	9.08	15.37	1.4870	-2.4378	-3.3186	6.5967	-0.0830	0.1677	-1.6394	
8	9.07	14.61	1.4996	-2.6204	-3.0670	6.3915	-0.0420	0.1660	-1.7474	
9	9.05	13.85	1.5457	-2.8324	-2.9643	6.1048	-0.0200	0.1673	-1.8328	
10	9.04	13.06	1.5477	-2.9167	-2.6974	5.7712	-0.0300	0.1950	-1.8845	
11	9.03	12.31	1.5552	-3.1231	-2.5507	5.5507	-0.0100	0.1944	-2.0082	
12	9.03	11.48	1.5565	-3.1118	-2.3333	5.2164	0.0160	0.1980	-1.9966	
13	9.02	10.74	1.5401	-3.1640	-2.1858	4.8759	0.0190	0.2042	-2.0544	
14	9.02	9.96	1.5935	-3.3607	-1.9909	4.5251	0.0310	0.2027	-2.1090	
15	9.01	9.19	1.6049	-3.4647	-1.8515	4.2008	0.0210	0.2026	-2.1588	
16	9.01	8.35	1.6235	-3.5997	-1.5981	3.6921	0.0290	0.2087	-2.2173	
17	9.00	7.55	1.6156	-3.6036	-1.5487	3.4310	0.0380	0.2046	-2.2305	
18	8.99	6.77	1.6356	-3.7606	-1.3005	3.0226	0.0270	0.2041	-2.2493	
19	8.99	6.02	1.6610	-3.9012	-1.1778	2.6608	0.0290	0.1992	-2.3487	
20	8.99	5.17	1.6751	-3.9154	-1.0260	2.2772	0.0210	0.2176	-2.3377	
21	8.98	4.38	1.6577	-3.9305	-0.8611	1.9294	0.0200	0.2207	-2.3832	
22	8.98	3.60	1.6577	-4.0435	-0.6865	1.4490	0.0100	0.2310	-2.4393	
23	8.98	2.85	1.6839	-4.0612	-0.5533	1.2066	0.0080	0.2340	-2.4118	
24	8.98	2.06	1.6517	-4.0491	-0.3992	0.8449	0.0090	0.2475	-2.4515	
25	8.98	1.32	1.6724	-4.0931	-0.3463	0.6687	0.0120	0.2630	-2.4475	
26	8.98	0.56	1.6753	-4.0632	-0.2500	0.4879	0.0180	0.2770	-2.4254	
27	8.97	-0.17	1.6522	-4.0558	-0.0961	0.2535	0.0170	0.2798	-2.4548	
28	8.97	-0.97	1.6512	-4.0454	0.0380	0.0388	0.0170	0.2819	-2.4500	
29	8.97	-1.74	1.6668	-4.0523	0.1642	-0.1749	0.0160	0.2786	-2.4312	
30	8.98	-2.58	1.6367	-3.9651	0.2186	-0.3900	0.0220	0.2679	-2.4227	
31	8.98	-3.38	1.6442	-3.9696	0.3223	-0.7221	0.0300	0.2555	-2.4144	
32	8.98	-4.17	1.6323	-3.9550	0.5574	-1.0664	0.0230	0.2611	-2.4230	
33	8.98	-4.95	1.6496	-3.9282	0.6436	-1.3240	0.0190	0.2669	-2.3813	
34	8.99	-5.69	1.6546	-3.8792	0.8161	-1.6925	0.0130	0.2610	-2.3445	
35	8.98	-6.49	1.6206	-3.8136	0.9443	-2.0559	0.0100	0.2637	-2.3532	
36	8.99	-7.29	1.6194	-3.7609	1.0831	-2.4052	0.0140	0.2685	-2.3224	
37	9.00	-8.04	1.6178	-3.6667	1.3152	-2.8372	0.0120	0.2636	-2.2665	
38	9.01	-8.89	1.6163	-3.5416	1.3810	-3.1853	0.0160	0.2614	-2.1912	
39	9.00	-9.64	1.6231	-3.5722	1.6160	-3.6362	0.0200	0.2638	-2.2008	
40	9.01	-10.44	1.5862	-3.4025	1.7847	-3.9953	0.0280	0.2663	-2.1451	
41	9.02	-11.19	1.6186	-3.3859	1.9459	-4.3891	0.0490	0.2607	-2.0919	
42	9.02	-11.89	1.6064	-3.2998	2.0881	-4.7411	0.0600	0.2517	-2.0542	
43	9.02	-12.49	1.6247	-3.2444	2.1981	-5.0481	0.0770	0.2563	-1.9970	
44	9.02	-13.28	1.6207	-3.2408	2.3893	-5.3717	0.0860	0.2345	-1.9997	
45	9.02	-14.14	1.5778	-3.0688	2.5729	-5.7097	0.0910	0.2308	-1.9450	
46	9.03	-14.97	1.5816	-2.9911	2.7469	-6.0774	0.1010	0.2390	-1.8912	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.75	1.05	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	9.04	-15.79	1.5676	-2.7916	2.9585	-6.3746	0.1200	0.2241	-1.7808				
48	9.05	-16.59	1.5334	-2.6237	3.1346	-6.6731	0.1180	0.2317	-1.7110				
49	9.06	-17.43	1.4887	-2.4371	3.3234	-6.9244	0.1540	0.2691	-1.6371				
50	9.07	-18.27	1.4978	-2.3149	3.5199	-7.1416	0.1650	0.2648	-1.5455				
51	9.08	-19.15	1.4616	-2.0982	3.6628	-7.2167	0.1890	0.2638	-1.4356				

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	175	1.05	1.7	0.0	BZWF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.11	19.43	-0.8436	0.0278	-0.2669	-0.0329	0.3164	0.3572	0.0367	-0.0046	0.1028	-0.0130
2	9.11	19.30	-0.8472	0.0275	-0.2665	-0.0325	0.3146	0.3624	0.0367	-0.0043	0.1014	-0.0119
3	9.12	18.51	-0.8275	0.0278	-0.2627	-0.0336	0.3174	0.3649	0.0367	-0.0037	0.1005	-0.0101
4	9.11	17.70	-0.8117	0.0288	-0.2567	-0.0355	0.3162	0.3666	0.0368	-0.0057	0.1003	-0.0156
5	9.10	16.93	-0.7889	0.0289	-0.2514	-0.0367	0.3186	0.3631	0.0365	-0.0075	0.1006	-0.0206
6	9.08	16.12	-0.7560	0.0298	-0.2448	-0.0395	0.3238	0.3592	0.0361	-0.0078	0.1006	-0.0216
7	9.08	15.37	-0.7326	0.0295	-0.2393	-0.0403	0.3267	0.3579	0.0361	-0.0093	0.1010	-0.0260
8	9.07	14.61	-0.6875	0.0300	-0.2263	-0.0437	0.3291	0.3442	0.0360	-0.0127	0.1047	-0.0368
9	9.05	13.85	-0.6411	0.0307	-0.2189	-0.0479	0.3415	0.3521	0.0357	-0.0124	0.1013	-0.0353
10	9.04	13.06	-0.6281	0.0299	-0.2144	-0.0477	0.3413	0.3399	0.0355	-0.0170	0.1045	-0.0500
11	9.03	12.31	-0.5786	0.0312	-0.2023	-0.0540	0.3496	0.3407	0.0356	-0.0159	0.1046	-0.0468
12	9.03	11.48	-0.5359	0.0321	-0.1926	-0.0600	0.3593	0.3225	0.0352	-0.0235	0.1092	-0.0729
13	9.02	10.74	-0.4965	0.0327	-0.1830	-0.0658	0.3687	0.3141	0.0353	-0.0279	0.1123	-0.0888
14	9.02	9.96	-0.4544	0.0334	-0.1716	-0.0735	0.3777	0.3106	0.0351	-0.0292	0.1130	-0.0939
15	9.01	9.19	-0.4110	0.0328	-0.1663	-0.0799	0.4045	0.3029	0.0352	-0.0309	0.1163	-0.1021
16	9.01	8.35	-0.3768	0.0330	-0.1504	-0.0877	0.3990	0.2914	0.0355	-0.0321	0.1218	-0.1100
17	9.00	7.55	-0.3450	0.0325	-0.1423	-0.0942	0.4123	0.2716	0.0359	-0.0406	0.1322	-0.1495
18	8.99	6.77	-0.3001	0.0327	-0.1296	-0.1089	0.4318	0.2746	0.0358	-0.0403	0.1305	-0.1466
19	8.99	6.02	-0.2618	0.0329	-0.1152	-0.1258	0.4402	0.2683	0.0357	-0.0412	0.1332	-0.1536
20	8.99	5.17	-0.2364	0.0330	-0.1069	-0.1396	0.4521	0.2604	0.0359	-0.0452	0.1378	-0.1737
21	8.98	4.38	-0.1805	0.0339	-0.0921	-0.1878	0.5105	0.2466	0.0359	-0.0483	0.1458	-0.1960
22	8.98	3.60	-0.1479	0.0331	-0.0832	-0.2238	0.5624	0.2408	0.0360	-0.0516	0.1495	-0.2141
23	8.98	2.85	-0.1024	0.0318	-0.0701	-0.3110	0.6848	0.2324	0.0360	-0.0553	0.1549	-0.2378
24	8.98	2.06	-0.0575	0.0271	-0.0564	-0.4712	0.9819	0.2193	0.0360	-0.0619	0.1644	-0.2824
25	8.98	1.32	-0.0446	0.0187	-0.0404	-0.4203	0.9050	0.2084	0.0360	-0.0663	0.1727	-0.3184
26	8.98	0.56	-0.0251	0.0088	-0.0244	-0.3505	0.9707	0.1934	0.0361	-0.0702	0.1866	-0.3633
27	8.97	-0.17	-0.0076	0.0020	-0.0135	-0.2631	1.7806	0.1679	0.0362	-0.0756	0.2156	-0.4506
28	8.97	-0.97	0.0133	-0.0036	-0.0015	-0.2744	-0.1104	0.1562	0.0359	-0.0815	0.2301	-0.5221
29	8.97	-1.74	0.0132	-0.0107	0.0129	-0.8142	0.9772	0.1402	0.0356	-0.0859	0.2542	-0.6126
30	8.98	-2.58	0.0398	-0.0188	0.0302	-0.4723	0.7578	0.1160	0.0351	-0.0944	0.3025	-0.8142
31	8.98	-3.38	0.0733	-0.0261	0.0478	-0.3567	0.6525	0.1066	0.0345	-0.0991	0.3241	-0.9294
32	8.98	-4.17	0.1015	-0.0305	0.0589	-0.3009	0.5805	0.0907	0.0343	-0.1040	0.3781	-1.1464
33	8.98	-4.95	0.1303	-0.0316	0.0699	-0.2425	0.5366	0.0786	0.0338	-0.1082	0.4299	-1.3767
34	8.99	-5.69	0.1692	-0.0320	0.0842	-0.1891	0.4975	0.0706	0.0331	-0.1130	0.4688	-1.6002
35	8.98	-6.49	0.2186	-0.0313	0.0970	-0.1434	0.4439	0.0603	0.0320	-0.1193	0.5306	-1.9786
36	8.99	-7.29	0.2577	-0.0310	0.1093	-0.1203	0.4244	0.0370	0.0310	-0.1264	0.8377	-3.4181
37	9.00	-8.04	0.2862	-0.0323	0.1217	-0.1130	0.4251	0.0198	0.0300	-0.1315	1.5174	-6.6415
38	9.01	-8.89	0.3423	-0.0326	0.1351	-0.0953	0.3945	-0.0004	0.0287	-0.1411	-71.8622	352.8330
39	9.00	-9.64	0.3781	-0.0337	0.1453	-0.0891	0.3642	-0.0241	0.0279	-0.1470	-1.1595	6.1008
40	9.01	-10.44	0.4312	-0.0337	0.1598	-0.0781	0.3705	-0.0633	0.0271	-0.1556	-0.4288	2.4580
41	9.02	-11.19	0.4802	-0.0322	0.1758	-0.0671	0.3661	-0.0873	0.0265	-0.1670	-0.3035	1.9128
42	9.02	-11.89	0.5230	-0.0322	0.1871	-0.0615	0.3577	-0.1206	0.0261	-0.1724	-0.2168	1.4294
43	9.02	-12.49	0.5592	-0.0315	0.1999	-0.0563	0.3575	-0.1481	0.0258	-0.1811	-0.1745	1.2232
44	9.02	-13.28	0.5957	-0.0306	0.2096	-0.0514	0.3518	-0.1767	0.0255	-0.1841	-0.1443	1.0423
45	9.02	-14.14	0.6362	-0.0303	0.2205	-0.0477	0.3466	-0.1975	0.0252	-0.1880	-0.1276	0.9519
46	9.03	-14.97	0.6804	-0.0310	0.2287	-0.0464	0.3417	-0.2370	0.0251	-0.1974	-0.1099	0.8332

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.75	1.05	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	9.04	-15.79	0.7025	-0.0306	0.2389	-0.0436	0.3400	-0.2879	0.0251	-0.2104	-0.0871	0.7308	
48	9.05	-16.59	0.7321	-0.0301	0.2462	-0.0411	0.3364	-0.2773	0.0243	-0.2087	-0.0876	0.7525	
49	9.06	-17.43	0.7771	-0.0272	0.2578	-0.0351	0.3318	-0.2542	0.0243	-0.2214	-0.0686	0.6251	
50	9.07	-18.27	0.8046	-0.0268	0.2638	-0.0334	0.3279	-0.2357	0.0240	-0.2280	-0.0640	0.6068	
51	9.08	-19.15	0.8426	-0.0246	0.2724	-0.0292	0.3232	-0.2490	0.0242	-0.2444	-0.0539	0.5443	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		175 1.05 1.7		0.0	B2NOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	LB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	9.11	19.43	-1.1602	-0.0106	-0.4355	0.0092	0.3754	-0.0494	-0.0354	0.0247	0.7175	-0.5008
2	9.11	19.30	-1.1767	-0.0053	-0.4452	0.0095	0.3783	-0.0532	-0.0325	0.0226	0.6108	-0.4243
3	9.12	18.51	-1.1608	-0.0022	-0.4484	0.0019	0.3863	-0.0460	-0.0325	0.0218	0.7064	-0.4733
4	9.11	17.70	-1.1618	0.0	-0.4515	0.0	0.3886	0.0064	-0.0361	0.0404	-5.6396	6.3176
5	9.10	16.93	-1.1461	0.0013	-0.4489	-0.0011	0.3917	0.0157	-0.0361	0.0454	-2.3021	2.8937
6	9.08	16.12	-1.1075	0.0029	-0.4458	-0.0026	0.4025	0.0575	-0.0388	0.0634	-0.6747	1.1036
7	9.08	15.37	-1.0701	0.0045	-0.4376	-0.0043	0.4089	0.0870	-0.0389	0.0717	-0.4476	0.8240
8	9.07	14.61	-1.0339	0.0069	-0.4292	-0.0067	0.4151	0.1504	-0.0415	0.0908	-0.2653	0.5807
9	9.05	13.85	-0.9951	0.0069	-0.4211	-0.0069	0.4231	0.1879	-0.0422	0.1062	-0.2248	0.5653
10	9.04	13.06	-0.9491	0.0069	-0.4073	-0.0073	0.4292	0.2012	-0.0412	0.1077	-0.2047	0.5355
11	9.03	12.31	-0.9041	0.0055	-0.3906	-0.0061	0.4320	0.2359	-0.0407	0.1220	-0.1727	0.5172
12	9.03	11.48	-0.8456	0.0045	-0.3757	-0.0053	0.4442	0.2887	-0.0396	0.1329	-0.1371	0.4603
13	9.02	10.74	-0.7961	0.0025	-0.3564	-0.0032	0.4478	0.3209	-0.0377	0.1413	-0.1176	0.4404
14	9.02	9.96	-0.7374	0.0013	-0.3387	-0.0018	0.4593	0.3534	-0.0358	0.1498	-0.1014	0.4237
15	9.01	9.19	-0.6848	-0.0000	-0.3186	0.0001	0.4652	0.3767	-0.0338	0.1512	-0.0897	0.4014
16	9.01	8.35	-0.6195	-0.0028	-0.2941	0.0045	0.4748	0.4051	-0.0312	0.1621	-0.0771	0.4001
17	9.00	7.55	-0.5546	-0.0038	-0.2757	0.0068	0.4971	0.4176	-0.0280	0.1683	-0.0671	0.4029
18	8.99	6.77	-0.4870	-0.0063	-0.2495	0.0130	0.5131	0.4586	-0.0253	0.1731	-0.0551	0.3775
19	8.99	6.02	-0.4207	-0.0088	-0.2257	0.0209	0.5364	0.4805	-0.0216	0.1803	-0.0449	0.3752
20	8.99	5.17	-0.3583	-0.0083	-0.1999	0.0233	0.5578	0.4902	-0.0195	0.1856	-0.0399	0.3787
21	8.98	4.38	-0.2949	-0.0085	-0.1749	0.0288	0.5929	0.4951	-0.0158	0.1906	-0.0319	0.3849
22	8.98	3.60	-0.2235	-0.0072	-0.1450	0.0322	0.6491	0.5219	-0.0142	0.1942	-0.0272	0.3721
23	8.98	2.85	-0.1747	-0.0079	-0.1177	0.0455	0.6738	0.5273	-0.0120	0.1990	-0.0227	0.3774
24	8.98	2.06	-0.1221	-0.0070	-0.0902	0.0577	0.7386	0.5421	-0.0104	0.2032	-0.0191	0.3741
25	8.98	1.32	-0.0582	-0.0057	-0.0652	0.0688	1.1202	0.5604	-0.0096	0.2124	-0.0169	0.3737
26	8.98	0.56	-0.0154	-0.0049	-0.0448	0.0214	2.9111	0.5921	-0.0080	0.2150	-0.0135	0.3631
27	8.97	-0.17	0.0214	-0.0051	-0.0199	-0.2383	-0.9285	0.6030	-0.0066	0.2183	-0.0110	0.3621
28	8.97	-0.97	0.0801	-0.0046	0.0065	-0.0574	0.0810	0.6074	-0.0057	0.2276	-0.0095	0.3747
29	8.97	-1.74	0.1207	-0.0035	0.0294	-0.0294	0.2479	0.6412	-0.0055	0.2322	-0.0087	0.3622
30	8.98	-2.58	0.1675	-0.0026	0.0541	-0.0158	0.3231	0.6518	-0.0067	0.2329	-0.0104	0.3573
31	8.98	-3.38	0.2204	-0.0017	0.0799	-0.0034	0.3627	0.6714	-0.0069	0.2391	-0.0103	0.3561
32	8.98	-4.17	0.2830	-0.0002	0.1055	0.0007	0.3728	0.6847	-0.0073	0.2433	-0.0107	0.3554
33	8.98	-4.95	0.3357	0.0014	0.1314	0.0042	0.3913	0.6877	-0.0070	0.2440	-0.0102	0.3549
34	8.99	-5.69	0.3982	0.0022	0.1592	0.0055	0.3997	0.6954	-0.0071	0.2468	-0.0102	0.3549
35	8.98	-6.49	0.4721	0.0031	0.1828	0.0067	0.3872	0.7019	-0.0070	0.2492	-0.0100	0.3550
36	8.99	-7.29	0.5355	0.0038	0.2076	0.0072	0.3877	0.7043	-0.0070	0.2538	-0.0100	0.3603
37	9.00	-8.04	0.5941	0.0035	0.2304	0.0060	0.3877	0.7073	-0.0068	0.2559	-0.0096	0.3618
38	9.01	-8.89	0.6599	0.0024	0.2576	0.0037	0.3907	0.7175	-0.0072	0.2586	-0.0100	0.3604
39	9.00	-9.64	0.7241	0.0017	0.2798	0.0024	0.3864	0.7374	-0.0068	0.2630	-0.0092	0.3567
40	9.01	-10.44	0.7867	-0.0000	0.3013	-0.0001	0.3830	0.7351	-0.0075	0.2630	-0.0103	0.3578
41	9.02	-11.19	0.8324	-0.0010	0.3219	-0.0011	0.3807	0.7516	-0.0076	0.2671	-0.0101	0.3557
42	9.02	-11.89	0.8939	-0.0011	0.3380	-0.0012	0.3781	0.7503	-0.0068	0.2678	-0.0090	0.3531
43	9.02	-12.49	0.9421	-0.0013	0.3558	-0.0014	0.3777	0.7749	-0.0060	0.2735	-0.0078	0.3530
44	9.02	-13.28	0.9818	-0.0008	0.3706	-0.0008	0.3775	0.7740	-0.0049	0.2773	-0.0063	0.3583
45	9.02	-14.14	1.0428	-0.0004	0.3857	-0.0004	0.3648	0.7723	-0.0041	0.2743	-0.0053	0.3552
46	9.03	-14.97	1.0896	-0.0002	0.3999	-0.0002	0.3670	0.7819	-0.0038	0.2793	-0.0049	0.3573

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		175	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.04	-15.79	1.1246	0.0005	0.4114	0.0004	0.3658	0.7864	-0.0026	0.2748	-0.0034	0.3495
48	9.05	-16.59	1.1798	0.0038	0.4157	0.0033	0.3524	0.7859	-0.0031	0.2767	-0.0040	0.3520
49	9.06	-17.43	1.2157	0.0046	0.4252	0.0038	0.3497	0.7740	-0.0029	0.2747	-0.0038	0.3549
50	9.07	-18.27	1.2471	0.0059	0.4346	0.0048	0.3485	0.7887	-0.0016	0.2743	-0.0020	0.3478
51	9.08	-19.15	1.2845	0.0066	0.4400	0.0051	0.3426	0.7866	-0.0007	0.2744	-0.0009	0.3488

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.76	1.05 1.7	0.0	BZWF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	12.21	19.46	2.2443	-3.1460	-3.9731	6.4252	-0.1670	0.1773	-1.4018	
2	12.21	19.09	2.1909	-2.9593	-4.0528	6.3698	-0.1830	0.1660	-1.3507	
3	12.21	18.32	2.1970	-2.9478	-3.9627	6.4640	-0.1740	0.1542	-1.3417	
4	12.19	17.57	2.2059	-3.1073	-3.7693	6.4029	-0.1420	0.1664	-1.4086	
5	12.18	16.74	2.2030	-3.2252	-3.6847	6.2465	-0.1170	0.1549	-1.4640	
6	12.16	16.01	2.1813	-3.4068	-3.5470	6.2567	-0.0940	0.1461	-1.5618	
7	12.14	15.20	2.1583	-3.5106	-3.3506	6.1076	-0.0470	0.1607	-1.6265	
8	12.13	14.50	2.1706	-3.8098	-3.0717	5.8132	-0.0280	0.1655	-1.7552	
9	12.11	13.72	2.1468	-3.9074	-2.9336	5.7268	0.0020	0.1593	-1.8201	
10	12.10	12.92	2.1481	-4.0012	-2.7765	5.4479	0.0380	0.1730	-1.8627	
11	12.09	12.20	2.2309	-4.3211	-2.5505	5.0375	0.0450	0.1687	-1.9369	
12	12.07	11.39	2.1806	-4.3577	-2.4506	4.8976	0.0780	0.1883	-1.9984	
13	12.07	10.63	2.2118	-4.4983	-2.2587	4.5860	0.0320	0.1835	-2.0338	
14	12.06	9.82	2.2257	-4.6568	-1.9738	4.1262	0.0630	0.1881	-2.0923	
15	12.05	9.06	2.2490	-4.7884	-1.8404	3.8383	0.0750	0.1922	-2.1291	
16	12.05	8.22	2.2328	-4.8277	-1.7032	3.4473	0.0590	0.2002	-2.1622	
17	12.04	7.46	2.2808	-4.9899	-1.4843	3.0609	0.0740	0.2020	-2.1878	
18	12.03	6.66	2.2404	-5.0223	-1.3401	2.6841	0.0740	0.2080	-2.2417	
19	12.03	5.91	2.2674	-5.1241	-1.1705	2.3117	0.0600	0.2096	-2.2599	
20	12.02	5.05	2.2542	-5.1372	-0.9880	1.8051	0.0510	0.2278	-2.2800	
21	12.02	4.23	2.2368	-5.1433	-0.8233	1.4556	0.0460	0.2318	-2.2994	
22	12.02	3.40	2.2930	-5.2479	-0.5775	1.0125	0.0400	0.2363	-2.2887	
23	12.02	2.73	2.2952	-5.3190	-0.5139	0.8085	0.0290	0.2381	-2.3174	
24	12.02	1.92	2.2766	-5.2290	-0.3564	0.5309	0.0350	0.2445	-2.2968	
25	12.01	1.18	2.2704	-5.2743	-0.2515	0.3741	0.0280	0.2522	-2.3231	
26	12.01	0.42	2.2602	-5.2710	-0.2070	0.3618	0.0240	0.2601	-2.3321	
27	12.01	-0.30	2.2708	-5.2479	-0.0528	0.2029	0.0200	0.2615	-2.3110	
28	12.00	-1.12	2.2804	-5.3073	0.0267	0.1256	0.0130	0.2561	-2.3273	
29	12.00	-1.86	2.2457	-5.2397	0.0379	-0.0301	0.0110	0.2610	-2.3332	
30	12.01	-2.70	2.2734	-5.2635	0.1842	-0.1509	0.0220	0.2528	-2.3152	
31	12.00	-3.50	2.2454	-5.2273	0.3227	-0.4217	0.0150	0.2451	-2.3280	
32	12.00	-4.32	2.2191	-5.2125	0.4181	-0.6614	0.0060	0.2329	-2.3489	
33	12.00	-5.08	2.2158	-5.2069	0.6092	-0.9319	-0.0060	0.2417	-2.3499	
34	12.00	-5.84	2.2368	-5.1853	0.8169	-1.4586	-0.0320	0.2409	-2.3182	
35	12.02	-6.60	2.2704	-5.1223	0.9367	-1.8403	-0.0330	0.2355	-2.2501	
36	12.02	-7.44	2.2874	-5.1651	1.1371	-2.2108	-0.0390	0.2372	-2.2581	
37	12.02	-8.20	2.2473	-5.0260	1.3338	-2.5463	-0.0320	0.2297	-2.2364	
38	12.03	-9.03	2.2364	-4.9167	1.5083	-3.0805	-0.0150	0.2296	-2.1985	
39	12.03	-9.79	2.2247	-4.7774	1.6409	-3.4221	-0.0190	0.2371	-2.1474	
40	12.04	-10.60	2.2064	-4.7018	1.8714	-3.8267	-0.0230	0.2501	-2.1310	
41	12.05	-11.30	2.1949	-4.5467	1.9808	-4.1110	-0.0060	0.2547	-2.0715	
42	12.06	-12.08	2.1885	-4.3647	2.1745	-4.4591	0.0180	0.2598	-1.9944	
43	12.07	-12.86	2.2213	-4.3287	2.2643	-4.6358	0.0390	0.2633	-1.9487	
44	12.08	-13.65	2.2058	-4.1317	2.4680	-4.9630	0.0780	0.2661	-1.8733	
45	12.09	-14.46	2.2163	-4.0187	2.6461	-5.2353	0.1070	0.2655	-1.8132	
46	12.11	-14.34	2.2733	-3.9729	2.7740	-4.9417	0.1340	0.2546	-1.7474	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		176	1.05	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	12.12	-16.14	2.2722	-3.8700	2.9910	-5.8522	0.1610	0.2470	-1.7032				
48	12.12	-16.92	2.1797	-3.5625	3.1598	-6.0575	0.1530	0.2513	-1.6344				
49	12.12	-17.76	2.1296	-3.5144	3.3748	-6.3754	0.1770	0.2413	-1.6502				
50	12.13	-18.57	2.1376	-3.3106	3.6108	-6.5370	0.1810	0.2175	-1.5487				
51	12.13	-19.43	2.1701	-3.4041	3.6834	-6.4406	0.2250	0.2303	-1.5686				
52	12.14	-20.19	2.2192	-3.3659	3.9111	-6.3794	0.2670	0.2189	-1.5167				
53	12.15	-20.24	2.2180	-3.3032	3.8047	-5.8365	0.3320	0.2308	-1.4893				

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	176	1.05	1.7	0.0	82	0F12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2		
1	12.21	19.46	-0.6945	0.0408	-0.2323	-0.0587	0.3345	0.5847	0.0343	0.0473	0.0587	0.0808		
2	12.21	19.09	-0.6842	0.0408	-0.2328	-0.0596	0.3402	0.5876	0.0342	0.0462	0.0583	0.0787		
3	12.21	18.32	-0.6782	0.0408	-0.2313	-0.0602	0.3410	0.5867	0.0343	0.0459	0.0584	0.0783		
4	12.19	17.57	-0.6493	0.0406	-0.2224	-0.0625	0.3426	0.5892	0.0342	0.0468	0.0580	0.0794		
5	12.18	16.74	-0.6321	0.0402	-0.2212	-0.0637	0.3500	0.5813	0.0341	0.0446	0.0587	0.0768		
6	12.16	16.01	-0.5930	0.0398	-0.2126	-0.0672	0.3585	0.5832	0.0338	0.0442	0.0580	0.0757		
7	12.14	15.20	-0.5698	0.0404	-0.2066	-0.0710	0.3625	0.5640	0.0339	0.0393	0.0601	0.0696		
8	12.13	14.50	-0.5303	0.0409	-0.1976	-0.0771	0.3726	0.5547	0.0339	0.0392	0.0606	0.0701		
9	12.11	13.72	-0.4942	0.0419	-0.1911	-0.0848	0.3866	0.5670	0.0339	0.0378	0.0598	0.0666		
10	12.10	12.92	-0.4534	0.0412	-0.1754	-0.0908	0.3868	0.5381	0.0337	0.0324	0.0627	0.0603		
11	12.09	12.20	-0.4274	0.0412	-0.1673	-0.0965	0.3915	0.5475	0.0337	0.0304	0.0615	0.0555		
12	12.07	11.39	-0.3828	0.0409	-0.1507	-0.1068	0.3935	0.5336	0.0336	0.0274	0.0630	0.0514		
13	12.07	10.63	-0.3947	0.0404	-0.1588	-0.1024	0.4024	0.5218	0.0339	0.0255	0.0649	0.0489		
14	12.06	9.82	-0.3411	0.0394	-0.1366	-0.1156	0.4003	0.5123	0.0337	0.0205	0.0658	0.0401		
15	12.05	9.06	-0.2844	0.0396	-0.1292	-0.1392	0.4541	0.5074	0.0337	0.0189	0.0664	0.0373		
16	12.05	8.22	-0.2586	0.0398	-0.1213	-0.1539	0.4693	0.5001	0.0337	0.0160	0.0674	0.0319		
17	12.04	7.46	-0.2000	0.0391	-0.1069	-0.1955	0.5347	0.4931	0.0337	0.0133	0.0684	0.0271		
18	12.03	6.68	-0.1476	0.0386	-0.0942	-0.2618	0.6381	0.4728	0.0338	0.0084	0.0715	0.0177		
19	12.03	5.91	-0.1315	0.0391	-0.0676	-0.2977	0.6663	0.4650	0.0340	0.0069	0.0731	0.0148		
20	12.02	5.05	-0.0819	0.0416	-0.0752	-0.5078	0.9181	0.4435	0.0344	0.0010	0.0776	0.0023		
21	12.02	4.23	-0.0390	0.0438	-0.0643	-1.1229	1.6486	0.4310	0.0347	-0.0033	0.0805	-0.0075		
22	12.02	3.46	-0.0037	0.0459	-0.0484	-12.4032	13.0900	0.4217	0.0349	-0.0031	0.0828	-0.0075		
23	12.02	2.73	0.0152	0.0429	-0.0427	2.8252	-2.8115	0.4040	0.0350	-0.0062	0.0866	-0.0155		
24	12.02	1.92	0.0209	0.0328	-0.0271	1.5691	-1.2984	0.3809	0.0354	-0.0156	0.0930	-0.0411		
25	12.01	1.18	0.0249	0.0232	-0.0210	0.9316	-0.8435	0.3635	0.0356	-0.0202	0.0979	-0.0557		
26	12.01	0.42	0.0054	0.0119	-0.0186	2.2126	-3.4446	0.3468	0.0359	-0.0276	0.1036	-0.0796		
27	12.01	-0.30	0.0013	0.0007	-0.0066	0.5768	-5.2052	0.3195	0.0359	-0.0345	0.1125	-0.1080		
28	12.00	-1.12	-0.0108	-0.0065	-0.0030	0.6388	0.2777	0.2979	0.0358	-0.0428	0.1203	-0.1436		
29	12.00	-1.86	-0.0172	-0.0168	0.0050	0.9795	-0.2889	0.2764	0.0355	-0.0514	0.1285	-0.1858		
30	12.01	-2.70	-0.0084	-0.0289	0.0219	3.4458	-2.6073	0.2521	0.0352	-0.0587	0.1396	-0.2328		
31	12.00	-3.50	0.0048	-0.0403	0.0340	-8.4048	7.0832	0.2371	0.0347	-0.0671	0.1463	-0.2830		
32	12.00	-4.32	0.0102	-0.0432	0.0394	-4.2394	3.8626	0.2179	0.0345	-0.0736	0.1583	-0.3377		
33	12.00	-5.08	0.0333	-0.0434	0.0438	-1.3031	1.3152	0.2122	0.0341	-0.0770	0.1609	-0.3628		
34	12.00	-5.84	0.0642	-0.0391	0.0469	-0.6089	0.7304	0.2142	0.0336	-0.0790	0.1571	-0.3689		
35	12.02	-6.60	0.0997	-0.0366	0.0626	-0.3670	0.6281	0.2097	0.0326	-0.0855	0.1554	-0.4078		
36	12.02	-7.44	0.1327	-0.0363	0.0708	-0.2735	0.5337	0.2034	0.0317	-0.0909	0.1561	-0.4470		
37	12.02	-8.20	0.1674	-0.0363	0.0884	-0.2171	0.5280	0.1766	0.0305	-0.0986	0.1730	-0.5586		
38	12.03	-9.03	0.2490	-0.0380	0.1114	-0.1520	0.4473	0.1418	0.0289	-0.1116	0.2041	-0.7874		
39	12.03	-9.79	0.2682	-0.0390	0.1181	-0.1454	0.4406	0.1222	0.0280	-0.1173	0.2295	-0.9597		
40	12.04	-10.60	0.3035	-0.0398	0.1295	-0.1312	0.4268	0.1052	0.0270	-0.1231	0.2566	-1.1706		
41	12.05	-11.30	0.3381	-0.0407	0.1412	-0.1203	0.4175	0.0770	0.0261	-0.1324	0.3396	-1.7200		
42	12.06	-12.08	0.3795	-0.0420	0.1554	-0.1106	0.4093	0.0355	0.0252	-0.1461	0.7111	-4.1175		
43	12.07	-12.86	0.4140	-0.0437	0.1652	-0.1059	0.3989	-0.0073	0.0248	-0.1542	-3.3967	21.1277		
44	12.08	-13.65	0.4864	-0.0441	0.1782	-0.0906	0.3663	-0.0744	0.0248	-0.1656	-0.3333	2.2257		
45	12.09	-14.46	0.5308	-0.0430	0.1929	-0.0811	0.3634	-0.1569	0.0250	-0.1778	-0.1593	1.1337		
46	12.11	-15.36	0.5865	-0.0403	0.2078	-0.0687	0.3544	-0.2234	0.0255	-0.1936	-0.1143	0.8668		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	176	1.05	1.7	0.0	B2M0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	12.12	-16.14	0.6029	-0.0412	0.2127	-0.0684	0.3528	-0.2370	0.0255	-0.1988	-0.1076	0.8391
48	12.12	-16.92	0.6120	-0.0421	0.2149	-0.0688	0.3512	-0.2471	0.0247	-0.1993	-0.0999	0.8067
49	12.12	-17.76	0.6682	-0.0391	0.2307	-0.0586	0.3453	-0.2803	0.0255	-0.2060	-0.0911	0.7348
50	12.13	-18.57	0.7053	-0.0380	0.2361	-0.0539	0.3348	-0.2794	0.0259	-0.2050	-0.0928	0.7336
51	12.13	-19.43	0.7487	-0.0376	0.2476	-0.0503	0.3307	-0.2907	0.0250	-0.2097	-0.0861	0.7211
52	12.14	-20.19	0.7892	-0.0360	0.2571	-0.0457	0.3257	-0.3122	0.0258	-0.2170	-0.0826	0.6950
53	12.15	-20.24	0.7758	-0.0356	0.2562	-0.0459	0.3303	-0.3156	0.0268	-0.2139	-0.0850	0.6775

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.76	1.05	1.7	0.0	B2WUF12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	12.21	19.46	-1.1800	-0.0130	-0.4408	0.0110	0.3735	0.0760	-0.0404	0.0607	-0.5315	0.7990
2	12.21	19.09	-1.1907	-0.0105	-0.4440	0.0088	0.3729	0.0403	-0.0348	0.0431	-0.8634	1.0702
3	12.21	18.32	-1.2088	-0.0023	-0.4572	0.0019	0.3782	0.0397	-0.0322	0.0431	-0.8109	1.0864
4	12.19	17.57	-1.1957	0.0010	-0.4613	-0.0009	0.3858	0.0787	-0.0346	0.0578	-0.4396	0.7347
5	12.18	16.74	-1.1651	0.0029	-0.4600	-0.0025	0.3948	0.0876	-0.0350	0.0647	-0.3995	0.7385
6	12.16	16.01	-1.1453	0.0038	-0.4545	-0.0034	0.3969	0.1565	-0.0397	0.0889	-0.2539	0.5684
7	12.14	15.20	-1.1127	0.0036	-0.4453	-0.0033	0.4002	0.2046	-0.0431	0.1105	-0.2109	0.5400
8	12.13	14.50	-1.0800	0.0074	-0.4406	-0.0069	0.4079	0.2671	-0.0450	0.1278	-0.1684	0.4785
9	12.11	13.72	-1.0452	0.0077	-0.4323	-0.0074	0.4136	0.3167	-0.0455	0.1405	-0.1438	0.4437
10	12.10	12.92	-1.0038	0.0066	-0.4185	-0.0066	0.4169	0.3757	-0.0452	0.1578	-0.1203	0.4200
11	12.09	12.20	-0.9454	0.0053	-0.4027	-0.0056	0.4260	0.4081	-0.0439	0.1662	-0.1076	0.4072
12	12.07	11.39	-0.8914	0.0041	-0.3861	-0.0047	0.4331	0.4673	-0.0412	0.1789	-0.0881	0.3829
13	12.07	10.63	-0.8330	0.0037	-0.3699	-0.0044	0.4440	0.4533	-0.0389	0.1753	-0.0858	0.3868
14	12.06	9.82	-0.7696	0.0007	-0.3474	-0.0010	0.4514	0.5018	-0.0357	0.1887	-0.0712	0.3761
15	12.05	9.06	-0.7176	0.0003	-0.3281	-0.0004	0.4572	0.5309	-0.0330	0.1957	-0.0622	0.3686
16	12.05	8.22	-0.6398	-0.0021	-0.3073	0.0034	0.4803	0.5463	-0.0302	0.2012	-0.0553	0.3684
17	12.04	7.46	-0.5686	-0.0041	-0.2872	0.0073	0.5052	0.5828	-0.0263	0.2068	-0.0452	0.3548
18	12.03	6.68	-0.4904	-0.0058	-0.2594	0.0119	0.5289	0.6118	-0.0222	0.2138	-0.0364	0.3494
19	12.03	5.91	-0.4457	-0.0075	-0.2309	0.0168	0.5181	0.6062	-0.0199	0.2197	-0.0329	0.3624
20	12.02	5.05	-0.3657	-0.0077	-0.1597	0.0210	0.5459	0.6250	-0.0164	0.2234	-0.0262	0.3574
21	12.02	4.23	-0.2966	-0.0088	-0.1670	0.0297	0.5631	0.6405	-0.0135	0.2268	-0.0211	0.3541
22	12.02	3.46	-0.2391	-0.0085	-0.1423	0.0358	0.5954	0.6610	-0.0103	0.2307	-0.0156	0.3491
23	12.02	2.73	-0.1741	-0.0077	-0.1147	0.0445	0.6589	0.6731	-0.0089	0.2373	-0.0132	0.3525
24	12.02	1.92	-0.1127	-0.0065	-0.0855	0.0581	0.7627	0.6948	-0.0073	0.2449	-0.0106	0.3525
25	12.01	1.18	-0.0659	-0.0063	-0.0617	0.0956	0.9372	0.7236	-0.0070	0.2556	-0.0097	0.3533
26	12.01	0.42	-0.0153	-0.0054	-0.0382	0.1529	2.4966	0.7498	-0.0069	0.2623	-0.0093	0.3499
27	12.01	-0.30	0.0214	-0.0051	-0.0135	-0.2383	-0.6294	0.7758	-0.0068	0.2703	-0.0088	0.3484
28	12.00	-1.12	0.0676	-0.0041	0.0106	-0.0468	0.1209	0.8129	-0.0073	0.2759	-0.0090	0.3394
29	12.00	-1.86	0.1227	-0.0033	0.0378	-0.0269	0.3079	0.8325	-0.0067	0.2822	-0.0105	0.3390
30	12.01	-2.70	0.1687	-0.0022	0.0631	-0.0130	0.3741	0.8754	-0.0075	0.2912	-0.0086	0.3326
31	12.00	-3.50	0.2436	0.0000	0.0903	0.0002	0.3706	0.8887	-0.0096	0.2958	-0.0108	0.3329
32	12.00	-4.32	0.2998	0.0022	0.1156	0.0073	0.3856	0.8984	-0.0111	0.3009	-0.0124	0.3349
33	12.00	-5.08	0.3511	0.0026	0.1435	0.0075	0.4087	0.9119	-0.0119	0.3036	-0.0130	0.3329
34	12.00	-5.84	0.4487	0.0034	0.1776	0.0077	0.3963	0.9251	-0.0119	0.3097	-0.0129	0.3347
35	12.02	-6.60	0.4957	0.0037	0.2042	0.0076	0.4119	0.9411	-0.0123	0.3100	-0.0131	0.3294
36	12.02	-7.44	0.5722	0.0041	0.2315	0.0072	0.4045	0.9653	-0.0127	0.3156	-0.0132	0.3269
37	12.02	-8.20	0.6423	0.0037	0.2561	0.0058	0.3988	0.9721	-0.0127	0.3179	-0.0131	0.3270
38	12.03	-9.03	0.7184	0.0019	0.2817	0.0027	0.3971	0.9725	-0.0118	0.3182	-0.0121	0.3271
39	12.03	-9.79	0.7862	0.0012	0.3040	0.0015	0.3866	0.9819	-0.0122	0.3232	-0.0125	0.3291
40	12.04	-10.60	0.8443	0.0005	0.3246	0.0006	0.3845	0.9910	-0.0125	0.3268	-0.0126	0.3298
41	12.03	-11.30	0.9062	-0.0002	0.3401	-0.0002	0.3752	0.9985	-0.0119	0.3266	-0.0119	0.3271
42	12.06	-12.08	0.9651	-0.0005	0.3584	-0.0005	0.3713	1.0103	-0.0109	0.3309	-0.0108	0.3275
43	12.07	-12.86	1.0090	-0.0009	0.3770	-0.0009	0.3736	1.0277	-0.0106	0.3340	-0.0103	0.3249
44	12.08	-13.65	1.0643	-0.0013	0.3503	-0.0013	0.3668	1.0270	-0.0104	0.3356	-0.0101	0.3268
45	12.09	-14.46	1.1069	-0.0012	0.3999	-0.0011	0.3613	1.0387	-0.0100	0.3372	-0.0097	0.3246
46	12.11	-15.36	1.1388	-0.0006	0.4089	-0.0006	0.3590	1.0386	-0.0098	0.3373	-0.0095	0.3247

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	PACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	176	1.05	1.7	0.0	0.2	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	12.12	-16.14	1.1785	0.0020	0.4186	0.0017	0.3552	1.0595	-0.0097	0.3399	-0.0092	0.3209
48	12.12	-16.92	1.2280	0.0041	0.4238	0.0034	0.3451	1.0381	-0.0094	0.3378	-0.0091	0.3254
49	12.12	-17.76	1.2642	0.0056	0.4340	0.0045	0.3433	1.0353	-0.0085	0.3385	-0.0082	0.3269
50	12.13	-18.57	1.3068	0.0087	0.4383	0.0067	0.3354	1.0561	-0.0085	0.3413	-0.0081	0.3232
51	12.13	-19.43	1.2640	0.0235	0.4113	0.0183	0.3204	1.0467	-0.0078	0.3424	-0.0074	0.3271
52	12.14	-20.19	1.2653	0.0271	0.4020	0.0215	0.3177	1.0577	-0.0077	0.3459	-0.0073	0.3271
53	12.15	-20.24	1.1218	0.0265	0.3515	0.0237	0.3133	1.0508	-0.0066	0.3447	-0.0063	0.3281

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	177	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
1	15.26	19.31	2.9029	-3.9291	-4.1520	5.7827	-0.1350	0.1572	-1.3535		
2	15.26	19.08	2.9285	-4.0129	-4.1931	5.7773	-0.1330	0.1425	-1.3703		
3	15.26	18.34	2.9108	-3.8602	-4.0863	5.7408	-0.1220	0.1386	-1.3261		
4	15.25	17.49	2.9217	-3.9774	-3.9532	5.7764	-0.1050	0.1376	-1.3613		
5	15.24	16.71	2.9261	-4.0546	-3.8493	5.7280	-0.0600	0.1220	-1.3856		
6	15.22	15.92	2.8688	-4.1763	-3.6954	5.6175	-0.0110	0.1336	-1.4558		
7	15.20	15.20	2.8610	-4.4174	-3.4839	5.5194	0.0240	0.1367	-1.5440		
8	15.18	14.42	2.8516	-4.6162	-3.2486	5.3419	0.0670	0.1380	-1.6168		
9	15.15	13.68	2.7679	-4.8420	-3.0047	5.4384	0.0940	0.1460	-1.7493		
10	15.12	12.87	2.7498	-5.0606	-2.7811	5.0684	0.0920	0.1493	-1.8403		
11	15.11	12.11	2.8445	-5.4331	-2.5821	4.7167	0.0930	0.1442	-1.9100		
12	15.12	11.36	2.9001	-5.3990	-2.3022	4.1580	0.0680	0.1253	-1.8616		
13	15.11	10.60	2.8856	-5.5197	-2.1758	3.9140	0.1040	0.1272	-1.9128		
14	15.10	9.73	2.9139	-5.7133	-2.0160	3.5104	0.1280	0.1161	-1.9607		
15	15.08	9.00	2.8932	-5.8423	-1.8429	3.2259	0.1360	0.1334	-2.0193		
16	15.08	8.16	2.9322	-6.0338	-1.6246	2.9143	0.1340	0.1325	-2.0578		
17	15.07	7.36	2.9261	-6.1483	-1.5429	2.5670	0.1640	0.1562	-2.1012		
18	15.06	6.55	2.9214	-6.2837	-1.3165	2.1451	0.1340	0.1693	-2.1509		
19	15.06	5.78	2.9785	-6.3996	-1.0588	1.7812	0.0970	0.1755	-2.1486		
20	15.04	4.92	2.9664	-6.4927	-0.8802	1.4172	0.0980	0.2012	-2.1887		
21	15.04	4.14	2.9582	-6.4732	-0.7270	0.9838	0.1050	0.2187	-2.1882		
22	15.04	3.34	2.9284	-6.4255	-0.6409	0.7123	0.1040	0.2269	-2.1942		
23	15.03	2.64	2.8948	-6.3684	-0.4923	0.4523	0.0980	0.2346	-2.1999		
24	15.03	1.82	2.9215	-6.3808	-0.3834	0.3046	0.0770	0.2348	-2.1841		
25	15.02	1.05	2.8933	-6.4223	-0.2727	0.3137	0.0690	0.2435	-2.2197		
26	15.02	0.30	2.8884	-6.3665	-0.1736	0.3810	0.0430	0.2473	-2.2041		
27	15.03	-0.41	2.9307	-6.4407	-0.1574	0.3093	0.0270	0.2476	-2.1977		
28	15.02	-1.23	2.8833	-6.3383	-0.0634	0.2807	0.0210	0.2523	-2.1983		
29	15.02	-2.00	2.9178	-6.4196	-0.0048	0.1697	0.0230	0.2448	-2.2001		
30	15.03	-2.84	2.8911	-6.3303	0.1628	0.0901	-0.0190	0.2447	-2.1896		
31	15.02	-3.64	2.8856	-6.4186	0.2385	-0.1489	0.0130	0.2319	-2.2243		
32	15.01	-4.46	2.8753	-6.4431	0.3741	-0.4017	-0.0260	0.2212	-2.2408		
33	15.02	-5.18	2.8690	-6.4314	0.5908	-0.7122	-0.0670	0.2309	-2.2411		
34	15.02	-5.96	2.8484	-6.3645	0.7944	-1.1232	-0.0840	0.2332	-2.2349		
35	15.03	-6.73	2.8569	-6.2214	1.0110	-1.5693	-0.1070	0.2269	-2.1777		
36	15.04	-7.58	2.8769	-6.1814	1.1794	-1.9182	-0.1240	0.2298	-2.1486		
37	15.04	-8.34	2.8830	-6.1291	1.3250	-2.2930	-0.1350	0.2250	-2.1253		
38	15.05	-9.13	2.8572	-5.9319	1.5021	-2.8578	-0.1210	0.2075	-2.0761		
39	15.05	-9.93	2.8560	-5.9022	1.6679	-3.1265	-0.1050	0.2076	-2.0666		
40	15.06	-10.73	2.8888	-5.8201	1.8584	-3.4636	-0.0990	0.2041	-2.0147		
41	15.07	-11.48	2.8555	-5.6195	2.0293	-3.8419	-0.0560	0.2136	-1.9679		
42	15.07	-12.25	2.8409	-5.5831	2.2398	-4.2396	-0.0550	0.2120	-1.9652		
43	15.09	-13.00	2.8366	-5.3571	2.4823	-4.3981	-0.0430	0.2066	-1.8885		
44	15.10	-13.81	2.8220	-5.1237	2.6412	-4.8555	-0.0330	0.2070	-1.8156		
45	15.11	-14.62	2.7849	-4.9098	2.7944	-4.9781	-0.0030	0.2182	-1.7630		
46	15.13	-15.48	2.8143	-4.5840	2.9991	-5.0676	0.0300	0.2309	-1.6288		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	177	1.05	1.7	0.0	BZWOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	15.17	-16.20	2.8850	-4.4560	3.1492	-5.1968	0.0710	0.2285	-1.5445
48	15.19	-17.06	2.8917	-4.1894	3.3660	-5.3993	0.0940	0.2310	-1.4488
49	15.19	-17.93	2.9295	-4.1193	3.5840	-5.5386	0.1300	0.2376	-1.4061
50	15.20	-18.79	2.9242	-3.9039	3.8444	-5.6331	0.1640	0.2371	-1.3350
51	15.22	-19.55	2.9428	-3.7850	4.0421	-5.5639	0.2100	0.2414	-1.2862

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION		
6	177	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNFF1	CM1	CM1	XCFF1	YCFF1	CNF2	CM2	CM2	XCFF2	YCFF2
1	15.26	19.31	-0.5315	0.0493	-0.2019	-0.0927	0.3799	0.7272	0.0325	0.0985	0.0447	0.1355
2	15.26	19.08	-0.5250	0.0491	-0.2021	-0.0935	0.3850	0.7138	0.0327	0.1012	0.0458	0.1417
3	15.26	18.34	-0.5093	0.0484	-0.1941	-0.0951	0.3811	0.7126	0.0327	0.0988	0.0459	0.1386
4	15.25	17.49	-0.4862	0.0482	-0.1921	-0.0991	0.3951	0.7188	0.0328	0.0963	0.0456	0.1340
5	15.24	16.71	-0.4513	0.0467	-0.1785	-0.1034	0.3955	0.7075	0.0327	0.0978	0.0462	0.1382
6	15.22	15.92	-0.4170	0.0444	-0.1642	-0.1064	0.3936	0.6904	0.0327	0.0972	0.0473	0.1407
7	15.20	15.20	-0.3710	0.0437	-0.1555	-0.1179	0.4192	0.6951	0.0327	0.0940	0.0470	0.1353
8	15.18	14.42	-0.3188	0.0430	-0.1434	-0.1350	0.4499	0.6847	0.0327	0.0927	0.0478	0.1353
9	15.15	13.68	-0.3152	0.0435	-0.1438	-0.1374	0.4563	0.6636	0.0327	0.0864	0.0493	0.1303
10	15.12	12.87	-0.2855	0.0455	-0.1370	-0.1593	0.4799	0.6641	0.0331	0.0848	0.0499	0.1277
11	15.11	12.11	-0.2616	0.0466	-0.1361	-0.1781	0.5205	0.6616	0.0331	0.0840	0.0501	0.1269
12	15.12	11.34	-0.2394	0.0450	-0.1284	-0.1881	0.5366	0.6561	0.0333	0.0787	0.0508	0.1200
13	15.11	10.60	-0.1789	0.0431	-0.1091	-0.2409	0.6099	0.6362	0.0338	0.0737	0.0531	0.1159
14	15.10	9.73	-0.1205	0.0402	-0.0941	-0.3340	0.7813	0.6146	0.0340	0.0733	0.0554	0.1193
15	15.08	9.00	-0.0961	0.0385	-0.0808	-0.4011	0.8410	0.6020	0.0340	0.0709	0.0565	0.1178
16	15.08	8.16	-0.0703	0.0375	-0.0716	-0.5333	1.0168	0.5881	0.0340	0.0678	0.0578	0.1153
17	15.07	7.36	-0.0026	0.0341	-0.0484	-1.1323	18.6024	0.5709	0.0338	0.0664	0.0593	0.1162
18	15.06	6.55	-0.0063	0.0371	-0.0443	-5.8958	7.0316	0.5627	0.0337	0.0621	0.0600	0.1104
19	15.06	5.78	0.0096	0.0442	-0.0487	4.6633	-5.0730	0.5603	0.0334	0.0609	0.0597	0.1087
20	15.04	4.92	0.0521	0.0462	-0.0334	0.8876	-0.6418	0.5669	0.0334	0.0552	0.0540	0.0974
21	15.04	4.14	0.1070	0.0465	-0.0155	0.4350	-0.1453	0.5574	0.0333	0.0473	0.0598	0.0848
22	15.04	3.34	0.1474	0.0415	0.0014	0.2818	0.0096	0.5234	0.0335	0.0401	0.0640	0.0767
23	15.03	2.64	0.1452	0.0354	0.0077	0.2438	0.0529	0.5134	0.0339	0.0306	0.0661	0.0596
24	15.03	1.82	0.1191	0.0272	0.0100	0.2288	0.0838	0.4898	0.0344	0.0228	0.0703	0.0466
25	15.02	1.05	0.0870	0.0180	0.0084	0.2669	0.0964	0.4799	0.0349	0.0135	0.0727	0.0282
26	15.02	0.30	0.0349	0.0054	0.0037	0.1561	0.0209	0.4516	0.0356	0.0038	0.0788	0.0084
27	15.03	-0.41	-0.0032	-0.0017	-0.0027	0.5468	0.8332	0.4383	0.0358	-0.0014	0.0818	-0.0032
28	15.02	-1.23	-0.0275	-0.0187	-0.0032	0.6799	-0.1177	0.3922	0.0357	-0.0158	0.0910	-0.0402
29	15.02	-2.00	-0.0472	-0.0300	0.0085	0.6365	-0.1795	0.3794	0.0356	-0.0227	0.0938	-0.0599
30	15.03	-2.84	-0.1201	-0.0333	-0.0071	0.2772	0.0593	0.3506	0.0356	-0.0287	0.1015	-0.0820
31	15.02	-3.64	-0.0596	-0.0495	-0.0235	0.8304	-0.3950	0.3287	0.0350	-0.0415	0.1066	-0.1263
32	15.01	-4.46	-0.1018	-0.0497	0.0094	0.4886	-0.0921	0.3228	0.0348	-0.0441	0.1078	-0.1366
33	15.02	-5.18	-0.1120	-0.0492	0.0093	0.4397	-0.0829	0.3119	0.0347	-0.0478	0.1112	-0.1533
34	15.02	-5.96	-0.0738	-0.0447	0.0097	0.6063	-0.1316	0.3040	0.0342	-0.0527	0.1126	-0.1732
35	15.03	-6.73	-0.0329	-0.0365	0.0187	1.1107	-0.5695	0.3052	0.0334	-0.0574	0.1094	-0.1879
36	15.04	-7.58	-0.0086	-0.0309	0.0212	3.5582	-2.4691	0.3026	0.0323	-0.0612	0.1067	-0.2023
37	15.04	-8.34	0.0185	-0.0290	0.0242	-1.5673	1.3062	0.2946	0.0316	-0.0649	0.1072	-0.2202
38	15.05	-9.15	0.0883	-0.0339	0.0520	-0.3844	0.5842	0.2648	0.0299	-0.0785	0.1129	-0.2963
39	15.05	-9.93	0.1233	-0.0359	0.0660	-0.2911	0.5352	0.2460	0.0288	-0.0860	0.1171	-0.3497
40	15.06	-10.73	0.2051	-0.0423	0.1025	-0.2062	0.5000	0.2104	0.0272	-0.1010	0.1293	-0.4800
41	15.07	-11.48	0.2345	-0.0429	0.1100	-0.1829	0.4692	0.1943	0.0267	-0.1048	0.1374	-0.5397
42	15.07	-12.25	0.2502	-0.0441	0.1171	-0.1764	0.4683	0.1806	0.0258	-0.1132	0.1428	-0.6269
43	15.09	-13.00	0.2600	-0.0437	0.1221	-0.1680	0.4698	0.1316	0.0248	-0.1276	0.1888	-0.9700
44	15.10	-13.81	0.3125	-0.0449	0.1347	-0.1436	0.4311	0.0862	0.0243	-0.1364	0.2819	-1.5821
45	15.11	-14.62	0.3346	-0.0455	0.1414	-0.1359	0.4225	0.0313	0.0237	-0.1500	0.7587	-4.7946
46	15.15	-15.48	0.3665	-0.0461	0.1518	-0.1259	0.4142	-0.0666	0.0236	-0.1600	-0.3350	2.4023

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		177		1.05 1.7		0.0	0.2	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CM1	CB1	XC PF1	YCPF1	CNF2	CM2	CB2	XC PF2	YCPF2	
47	15.17	-16.28	0.4006	-0.0478	0.1629	-0.1194	0.4066	-0.1070	0.0240	-0.1734	-0.2247	1.6211	
48	15.19	-17.06	0.4386	-0.0486	0.1741	-0.1108	0.3970	-0.1681	0.0245	-0.1885	-0.1457	1.1214	
49	15.19	-17.93	0.4741	-0.0496	0.1810	-0.1046	0.3817	-0.2603	0.0253	-0.1931	-0.0972	0.7420	
50	15.20	-18.79	0.5072	-0.0496	0.1856	-0.0979	0.3659	-0.3503	0.0220	-0.1994	-0.0694	0.5532	
51	15.22	-19.55	0.5289	-0.0512	0.1947	-0.0969	0.3682	-0.3109	0.0248	-0.2226	-0.0797	0.7159	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.77	1.05	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.26	19.31	-1.2274	-0.0123	-0.4503	0.0101	0.3669	0.1720	-0.0472	0.0897	-0.2744	0.5216
2	15.26	19.08	-1.2178	-0.0127	-0.4518	0.0105	0.3710	0.1782	-0.0482	0.0947	-0.2707	0.5313
3	15.26	18.34	-1.2344	-0.0053	-0.4579	0.0043	0.3710	0.1609	-0.0429	0.0878	-0.2666	0.5458
4	15.25	17.49	-1.2286	0.0045	-0.4674	-0.0004	0.3804	0.1706	-0.0414	0.0897	-0.2426	0.5261
5	15.24	16.71	-1.2279	0.0045	-0.4709	-0.0057	0.3835	0.2123	-0.0431	0.1070	-0.2032	0.5042
6	15.22	15.92	-1.1990	0.0071	-0.4675	-0.0059	0.3899	0.2600	-0.0452	0.1246	-0.1688	0.4649
7	15.20	15.20	-1.1733	0.0091	-0.4647	-0.0078	0.3961	0.3094	-0.0469	0.1432	-0.1515	0.4628
8	15.18	14.42	-1.1360	0.0095	-0.4553	-0.0084	0.3990	0.3825	-0.0482	0.1606	-0.1260	0.4197
9	15.15	13.68	-1.0543	0.0085	-0.4448	-0.0078	0.4065	0.4620	-0.0485	0.1790	-0.1050	0.3875
10	15.12	12.87	-1.0467	0.0073	-0.4296	-0.0070	0.4104	0.4982	-0.0465	0.1871	-0.0934	0.3756
11	15.11	12.11	-0.9735	0.0057	-0.4121	-0.0059	0.4233	0.5308	-0.0428	0.1931	-0.0807	0.3637
12	15.12	11.34	-0.9111	0.0043	-0.3527	-0.0047	0.4310	0.5363	-0.0407	0.1973	-0.0760	0.3679
13	15.11	10.60	-0.8671	0.0017	-0.3755	-0.0020	0.4331	0.5829	-0.0378	0.2103	-0.0648	0.3608
14	15.10	9.73	-0.7969	-0.0008	-0.3550	0.0011	0.4455	0.6301	-0.0343	0.2213	-0.0545	0.3511
15	15.08	9.00	-0.7433	-0.0028	-0.3374	0.0038	0.4539	0.6681	-0.0306	0.2273	-0.0459	0.3402
16	15.08	8.16	-0.6617	-0.0049	-0.3162	0.0074	0.4778	0.6860	-0.0271	0.2375	-0.0396	0.3462
17	15.07	7.36	-0.5919	-0.0083	-0.2916	0.0141	0.4927	0.7458	-0.0218	0.2458	-0.0292	0.3296
18	15.06	6.55	-0.5186	-0.0092	-0.2601	0.0177	0.5015	0.7581	-0.0183	0.2506	-0.0242	0.3306
19	15.06	5.78	-0.4486	-0.0068	-0.2327	0.0153	0.5186	0.7605	-0.0169	0.2540	-0.0222	0.3340
20	15.04	4.92	-0.3812	-0.0058	-0.2056	0.0132	0.5394	0.7751	-0.0145	0.2564	-0.0187	0.3308
21	15.04	4.14	-0.3008	-0.0063	-0.1723	0.0209	0.5728	0.7880	-0.0115	0.2610	-0.0146	0.3312
22	15.04	3.34	-0.2457	-0.0062	-0.1429	0.0254	0.5819	0.8074	-0.0086	0.2720	-0.0107	0.3365
23	15.03	2.64	-0.1744	-0.0069	-0.1151	0.0398	0.6600	0.8337	-0.0073	0.2761	-0.0088	0.3312
24	15.03	1.82	-0.1150	-0.0056	-0.0876	0.0491	0.7619	0.8675	-0.0066	0.2827	-0.0076	0.3258
25	15.02	1.05	-0.0641	-0.0054	-0.0583	0.0842	0.9104	0.9035	-0.0060	0.2926	-0.0073	0.3238
26	15.02	0.30	-0.0169	-0.0052	-0.0349	0.1106	2.0669	0.9358	-0.0064	0.3021	-0.0068	0.3229
27	15.03	-0.41	0.0396	-0.0051	-0.0106	-0.1248	0.2678	0.9616	-0.0068	0.3114	-0.0071	0.3239
28	15.02	-1.23	0.0979	-0.0048	0.0151	-0.0490	0.1545	1.0001	-0.0079	0.3185	-0.0079	0.3184
29	15.02	-2.00	0.1384	-0.0042	0.0442	-0.0307	0.3195	1.0395	-0.0086	0.3292	-0.0083	0.3167
30	15.03	-2.84	0.1989	-0.0020	0.0737	-0.0103	0.3704	1.0426	-0.0100	0.3325	-0.0096	0.3185
31	15.02	-3.64	0.2565	-0.0017	0.1015	-0.0066	0.3956	1.0957	-0.0111	0.3447	-0.0102	0.3146
32	15.01	-4.46	0.3403	0.0002	0.1300	0.0006	0.3820	1.1063	-0.0131	0.3460	-0.0118	0.3128
33	15.02	-5.18	0.4089	0.0015	0.1625	0.0037	0.3983	1.1266	-0.0141	0.3498	-0.0125	0.3105
34	15.02	-5.96	0.4871	0.0021	0.1960	0.0044	0.4024	1.1292	-0.0154	0.3551	-0.0136	0.3144
35	15.03	-6.73	0.5466	0.0036	0.2234	0.0066	0.4088	1.1327	-0.0151	0.3546	-0.0133	0.3131
36	15.04	-7.58	0.6104	0.0056	0.2495	0.0092	0.4087	1.1475	-0.0148	0.3566	-0.0129	0.3107
37	15.04	-8.34	0.7010	0.0062	0.2732	0.0089	0.3897	1.1573	-0.0142	0.3624	-0.0123	0.3132
38	15.05	-9.15	0.7694	0.0044	0.3047	0.0058	0.3960	1.1781	-0.0137	0.3620	-0.0117	0.3072
39	15.05	-9.93	0.8401	0.0032	0.3218	0.0039	0.3831	1.1914	-0.0140	0.3687	-0.0117	0.3095
40	15.06	-10.73	0.8971	0.0012	0.3384	0.0013	0.3772	1.2149	-0.0133	0.3721	-0.0110	0.3063
41	15.07	-11.48	0.9552	0.0010	0.3612	0.0011	0.3781	1.2152	-0.0143	0.3721	-0.0118	0.3062
42	15.07	-12.25	1.0140	-0.0001	0.3820	-0.0001	0.3767	1.2458	-0.0141	0.3753	-0.0113	0.3013
43	15.09	-13.00	1.0701	-0.0012	0.3972	-0.0012	0.3711	1.2567	-0.0148	0.3801	-0.0118	0.3025
44	15.10	-13.81	1.1293	-0.0013	0.4123	-0.0012	0.3651	1.2391	-0.0144	0.3823	-0.0117	0.3085
45	15.11	-14.62	1.1716	-0.0018	0.4219	-0.0016	0.3601	1.2437	-0.0155	0.3833	-0.0125	0.3082
46	15.15	-15.48	1.2136	-0.0007	0.4349	-0.0006	0.3583	1.2556	-0.0149	0.3850	-0.0119	0.3066

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHA	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION
6		177	1.05	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	15.17	-16.28	1.2430	0.0032	0.4361	0.0026	0.3508	1.2580	-0.0145	0.3868	-0.0116	0.3075	
48	15.19	-17.06	1.2794	0.0040	0.4441	0.0032	0.3471	1.2734	-0.0148	0.3846	-0.0116	0.3020	
49	15.19	-17.93	1.3167	0.0042	0.4518	0.0032	0.3432	1.2743	-0.0151	0.3894	-0.0118	0.3056	
50	15.20	-18.79	1.3442	0.0079	0.4518	0.0059	0.3361	1.2879	-0.0159	0.3914	-0.0123	0.3039	
51	15.22	-19.55	1.3365	0.0199	0.4335	0.0149	0.3244	1.2805	-0.0151	0.3890	-0.0118	0.3038	

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SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	17.9	1.05	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XLP		
1	18.40	19.34	3.7496	-4.5455	-4.2465	5.1593	-0.0640	0.1274	-1.2123		
2	18.35	19.28	3.7137	-4.4563	-4.3028	5.1971	-0.0640	0.1284	-1.2000		
3	18.35	18.44	3.7068	-4.5766	-4.1805	5.1557	-0.0650	0.1227	-1.2346		
4	18.35	17.64	3.7370	-4.6659	-4.0707	5.0260	-0.0370	0.1102	-1.2466		
5	18.32	16.80	3.6663	-4.7959	-3.9090	5.0306	-0.0110	0.1061	-1.3081		
6	18.32	16.02	3.6421	-4.7280	-3.7197	4.8876	0.0300	0.0928	-1.2981		
7	18.29	15.30	3.5685	-4.9639	-3.5616	4.9973	0.0990	0.1021	-1.3910		
8	18.27	14.52	3.6384	-5.2358	-3.3265	4.6680	0.1200	0.1124	-1.4390		
9	18.24	13.76	3.6052	-5.5483	-3.0885	4.5819	0.1580	0.1301	-1.5389		
10	18.24	12.95	3.6872	-5.7930	-2.8316	4.2232	0.1220	0.1271	-1.5711		
11	18.23	12.21	3.6709	-5.8632	-2.6988	3.9204	0.1770	0.1370	-1.5972		
12	18.22	11.42	3.6797	-6.0525	-2.4810	3.6043	0.1850	0.1338	-1.6448		
13	18.20	10.66	3.6563	-6.1977	-2.2847	3.4186	0.2010	0.1482	-1.6951		
14	18.18	9.84	3.6167	-6.4072	-2.1178	3.2189	0.2220	0.1601	-1.7716		
15	18.16	9.04	3.6015	-6.5649	-1.9494	2.9652	0.2290	0.1683	-1.8228		
16	18.11	8.24	3.4662	-6.8455	-1.7756	2.8297	0.2340	0.1794	-1.9636		
17	18.11	7.44	3.5206	-7.0046	-1.4973	2.3612	0.1890	0.1716	-1.9896		
18	18.09	6.65	3.5761	-7.2473	-1.2317	1.8134	0.1690	0.1729	-2.0266		
19	18.10	5.84	3.6559	-7.2820	-1.0102	1.3052	0.1390	0.1768	-1.9918		
20	18.10	4.96	3.6394	-7.2949	-0.8608	0.8661	0.1380	0.1742	-2.0044		
21	18.10	4.16	3.6452	-7.3360	-0.6475	0.8335	0.2040	0.1743	-2.0125		
22	18.10	3.36	3.6410	-7.3851	-0.7491	0.6318	0.1990	0.1698	-2.0283		
23	18.08	2.65	3.6034	-7.4735	-0.6121	0.6130	0.1670	0.1602	-2.0740		
24	18.07	1.85	3.6155	-7.5830	-0.5188	0.5874	0.1200	0.1599	-2.0950		
25	18.06	1.08	3.5902	-7.6160	-0.3236	0.4110	0.0830	0.1656	-2.1213		
26	18.07	0.37	3.6534	-7.5685	-0.1626	0.2656	0.0330	0.1751	-2.0716		
27	18.06	-0.35	3.6360	-7.6093	-0.0999	0.2928	0.0140	0.1937	-2.0939		
28	18.06	-1.24	3.6329	-7.6058	-0.2038	0.4753	0.0180	0.2155	-2.0936		
29	18.07	-1.96	3.6452	-7.5520	-0.1407	0.5729	0.0	0.2303	-2.0717		
30	18.05	-2.80	3.5513	-7.5565	0.0248	0.3602	0.0090	0.2099	-2.1278		
31	18.06	-3.61	3.5734	-7.4655	0.2373	0.1708	-0.0460	0.2199	-2.0892		
32	18.06	-4.45	3.5777	-7.4925	0.3216	0.0338	-0.0640	0.2169	-2.0942		
33	18.06	-5.19	3.5399	-7.4316	0.4945	-0.3434	-0.0840	0.2184	-2.0994		
34	18.05	-5.97	3.5395	-7.4050	0.6791	-0.6218	-0.1320	0.2215	-2.0921		
35	18.06	-6.76	3.5265	-7.2848	0.8862	-1.0267	-0.1320	0.2195	-2.0657		
36	18.06	-7.59	3.5013	-7.1846	1.1249	-1.5078	-0.1780	0.2210	-2.0519		
37	18.07	-8.36	3.4918	-7.0663	1.3390	-1.8946	-0.1850	0.2205	-2.0237		
38	18.09	-9.18	3.4734	-6.8336	1.5804	-2.5425	-0.1940	0.2135	-1.9674		
39	18.10	-9.94	3.5204	-6.7934	1.7475	-2.8064	-0.1790	0.1953	-1.9297		
40	18.12	-10.76	3.5450	-6.5708	1.9360	-3.0304	-0.1610	0.1801	-1.8535		
41	18.16	-11.48	3.6276	-6.2505	2.0914	-3.1500	-0.1500	0.1756	-1.7230		
42	18.13	-12.30	3.5161	-6.3494	2.1769	-3.5916	-0.1120	0.1727	-1.8058		
43	18.16	-13.06	3.5442	-6.0268	2.3885	-3.8638	-0.0980	0.1541	-1.7004		
44	18.16	-13.86	3.4947	-5.8795	2.6011	-4.1514	-0.1000	0.1532	-1.6824		
45	18.19	-14.70	3.5205	-5.6417	2.7743	-4.3740	-0.0770	0.1509	-1.6025		
46	18.23	-15.52	3.5900	-5.2930	3.1270	-4.5918	-0.0530	0.1388	-1.4744		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		178	1.05	1.7		0.0	B2NOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	18.24	-16.32	3.6033	-5.1706	3.2231	-4.7123	-0.0190	0.1381	-1.4350				
48	18.27	-17.08	3.6632	-4.9375	3.5215	-4.7722	0.0270	0.1501	-1.3479				
49	18.29	-17.97	3.7404	-4.7626	3.7641	-4.7398	0.0660	0.1730	-1.2733				
50	18.29	-18.82	3.8029	-4.9471	3.8330	-4.7863	0.1160	0.1925	-1.3009				
51	18.31	-19.59	3.7912	-4.5948	4.1977	-5.0688	0.1380	0.2030	-1.2120				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.78	1.05	1.7	0.0	BZNUF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YC PF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	18.40	19.34	-0.3765	0.0514	-0.1684	-0.1365	0.4671	0.7078	0.0343	0.1639	0.0484	0.2315
2	18.35	19.28	-0.3693	0.0507	-0.1697	-0.1374	0.4594	0.8500	0.0338	0.1383	0.0398	0.1627
3	18.35	18.44	-0.3667	0.0505	-0.1658	-0.1378	0.4521	0.7574	0.0336	0.1584	0.0444	0.2091
4	18.35	17.64	-0.3341	0.0498	-0.1593	-0.1490	0.4768	0.9012	0.0343	0.1218	0.0381	0.1352
5	18.32	16.80	-0.3371	0.0488	-0.1625	-0.1447	0.4821	0.9200	0.0347	0.1200	0.0378	0.1304
6	18.32	16.02	-0.2437	0.0482	-0.1348	-0.1900	0.5532	0.9166	0.0349	0.1109	0.0381	0.1210
7	18.29	15.30	-0.1830	0.0451	-0.1165	-0.2464	0.6365	0.8849	0.0350	0.1122	0.0396	0.1268
8	18.27	14.52	-0.1558	0.0426	-0.0997	-0.2734	0.6400	0.8793	0.0352	0.1069	0.0400	0.1216
9	18.24	13.76	-0.1179	0.0395	-0.0866	-0.3354	0.7293	0.8468	0.0352	0.1106	0.0416	0.1306
10	18.24	12.95	-0.1432	0.0412	-0.0951	-0.2877	0.6642	0.5558	0.0344	0.1764	0.0619	0.3174
11	18.23	12.21	-0.0669	0.0340	-0.0707	-0.5081	1.0567	0.7983	0.0353	0.1092	0.0443	0.1368
12	18.22	11.42	-0.0518	0.0333	-0.0603	-0.6437	1.1653	0.5313	0.0348	0.1608	0.0656	0.3027
13	18.20	10.66	-0.0310	0.0308	-0.0453	-0.9934	1.4622	0.5819	0.0347	0.1456	0.0597	0.2502
14	18.18	9.84	0.0120	0.0258	-0.0225	2.1538	-1.8751	0.4748	0.0345	0.1567	0.0727	0.3301
15	18.16	9.04	0.0451	0.0257	-0.0162	0.5709	-0.3586	0.3658	0.0347	0.1731	0.0948	0.4731
16	18.11	8.24	0.0594	0.0298	-0.0159	0.5064	-0.2678	0.3444	0.0351	0.1560	0.0880	0.3905
17	18.11	7.44	0.0859	0.0398	-0.0209	0.4632	-0.2430	0.3781	0.0352	0.1557	0.0931	0.4117
18	18.09	6.65	0.1013	0.0476	-0.0226	0.4698	-0.2235	0.4014	0.0351	0.1517	0.0874	0.3778
19	18.10	5.84	0.1220	0.0424	-0.0112	0.3475	-0.0922	0.3394	0.0349	0.1587	0.1028	0.4675
20	18.10	4.96	0.1697	0.0423	0.0088	0.2442	0.0521	0.3128	0.0344	0.1539	0.1101	0.4921
21	18.10	4.16	0.2528	0.0208	0.0596	0.0825	0.2359	0.2603	0.0345	0.1476	0.1327	0.5672
22	18.10	3.36	0.2391	0.0198	0.0626	0.0828	0.2617	0.2295	0.0349	0.1406	0.1520	0.6130
23	18.08	2.65	0.1983	0.0116	0.0537	0.0545	0.2707	0.2009	0.0356	0.1331	0.1772	0.6627
24	18.07	1.85	0.1256	0.0074	0.0358	0.0593	0.2854	0.2218	0.0362	0.1187	0.1632	0.5352
25	18.06	1.08	0.1029	0.0159	0.0175	0.1545	0.1699	0.2196	0.0363	0.1118	0.1653	0.5090
26	18.07	0.37	0.0491	0.0084	0.0028	0.1710	0.0562	0.2023	0.0363	0.1062	0.1794	0.5250
27	18.06	-0.35	-0.0245	-0.0062	-0.0033	0.2530	0.1332	0.1603	0.0364	0.0925	0.2273	0.5771
28	18.06	-1.24	-0.0949	-0.0234	-0.0096	0.2465	0.1014	0.2157	0.0363	0.0678	0.1683	0.3142
29	18.07	-1.96	-0.1477	-0.0355	-0.0119	0.2403	0.0807	0.3052	0.0361	0.0302	0.1184	0.0990
30	18.05	-2.80	-0.1417	-0.0503	0.0007	0.3553	-0.0048	0.3160	0.0359	0.0133	0.1136	0.0422
31	18.06	-3.61	-0.1925	-0.0481	-0.0168	0.2498	0.0875	0.3656	0.0362	-0.0068	0.0990	-0.0187
32	18.06	-4.45	-0.1958	-0.0516	-0.0199	0.2635	0.1019	0.3353	0.0362	-0.0132	0.1081	-0.0355
33	18.06	-5.19	-0.1735	-0.0524	-0.0111	0.3023	0.0641	0.3131	0.0353	-0.0201	0.1128	-0.0643
34	18.05	-5.97	-0.2076	-0.0478	-0.0246	0.2302	0.1184	0.3426	0.0352	-0.0244	0.1028	-0.0712
35	18.06	-6.76	-0.1646	-0.0461	-0.0156	0.2803	0.0951	0.3081	0.0346	-0.0290	0.1124	-0.0941
36	18.06	-7.59	-0.1703	-0.0406	-0.0168	0.2387	0.0989	0.3037	0.0340	-0.0317	0.1121	-0.1042
37	18.07	-8.36	-0.1160	-0.0330	-0.0094	0.2849	0.0806	0.3158	0.0328	-0.0383	0.1040	-0.1214
38	18.09	-9.18	-0.0704	-0.0327	0.0021	0.4644	-0.0304	0.3197	0.0316	-0.0469	0.0988	-0.1468
39	18.10	-9.94	-0.0015	-0.0308	0.0198	20.5630	-13.2001	0.3223	0.0301	-0.0613	0.0935	-0.1900
40	18.12	-10.76	0.0466	-0.0334	0.0352	-0.7177	0.7560	0.2916	0.0287	-0.0730	0.0985	-0.2503
41	18.16	-11.48	0.0674	-0.0304	0.0371	-0.4510	0.5498	0.2258	0.0273	-0.0894	0.1209	-0.3962
42	18.13	-12.30	0.1454	-0.0410	0.0724	-0.2823	0.4983	0.2007	0.0270	-0.0982	0.1345	-0.4894
43	18.16	-13.06	0.1632	-0.0445	0.0853	-0.2726	0.5226	0.1845	0.0261	-0.1073	0.1414	-0.5817
44	18.16	-13.86	0.1745	-0.0431	0.0824	-0.2469	0.4725	0.1666	0.0254	-0.1158	0.1527	-0.6830
45	18.19	-14.70	0.2051	-0.0473	0.1011	-0.2318	0.4931	0.1030	0.0245	-0.1288	0.2383	-1.2503
46	18.23	-15.52	0.2284	-0.0456	0.1088	-0.1998	0.4764	0.0443	0.0242	-0.1421	0.4918	-2.8838

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		178		1.05 1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	18.24	-16.32	0.2708	-0.0484	0.1195	-0.1787	0.4414	0.0111	0.0241	-0.1549	2.1708	-13.9551	
48	18.27	-17.08	0.3033	-0.0487	0.1322	-0.1607	0.4357	-0.0862	0.0245	-0.1653	-0.2842	1.9179	
49	18.29	-17.97	0.3069	-0.0475	0.1330	-0.1547	0.4332	-0.1239	0.0241	-0.1757	-0.1949	1.4180	
50	18.29	-18.82	0.3480	-0.0516	0.1541	-0.1331	0.3971	-0.0893	0.0228	-0.1803	-0.2553	2.0197	
51	18.31	-19.59	0.4272	-0.0526	0.1665	-0.1232	0.3896	-0.1480	0.0241	-0.1934	-0.1628	1.3069	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	178	1.05	1.7	0.0	82WUFL2	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	18.40	19.34	-1.2770	-0.0059	-0.4725	0.0046	0.3700	0.2660	-0.0499	0.1210	-0.1876	0.4550
2	18.35	19.28	-1.2860	-0.0050	-0.4718	0.0039	0.3669	0.2632	-0.0485	0.1157	-0.1844	0.4396
3	18.35	18.44	-1.2697	-0.0036	-0.4706	0.0029	0.3706	0.2697	-0.0487	0.1179	-0.1805	0.4374
4	18.35	17.64	-1.2535	-0.0016	-0.4696	0.0013	0.3746	0.2888	-0.0497	0.1268	-0.1722	0.4391
5	18.32	16.80	-1.2422	0.0015	-0.4703	-0.0012	0.3786	0.3338	-0.0490	0.1418	-0.1469	0.4249
6	18.32	16.02	-1.2209	0.0065	-0.4767	-0.0053	0.3905	0.3231	-0.0486	0.1425	-0.1505	0.4409
7	18.29	15.30	-1.2027	0.0112	-0.4778	-0.0093	0.3973	0.3958	-0.0501	0.1617	-0.1267	0.4085
8	18.27	14.52	-1.1526	0.0112	-0.4659	-0.0097	0.4043	0.4523	-0.0497	0.1729	-0.1099	0.3823
9	18.24	13.76	-1.0987	0.0105	-0.4558	-0.0096	0.4148	0.5135	-0.0494	0.1941	-0.0962	0.3780
10	18.24	12.95	-1.0576	0.0097	-0.4397	-0.0092	0.4157	0.5302	-0.0454	0.1927	-0.0857	0.3634
11	18.23	12.21	-1.0011	0.0070	-0.4228	-0.0070	0.4223	0.6067	-0.0444	0.2102	-0.0732	0.3464
12	18.22	11.42	-0.9487	0.0053	-0.4036	-0.0056	0.4254	0.6325	-0.0424	0.2170	-0.0671	0.3430
13	18.20	10.66	-0.8954	0.0035	-0.3857	-0.0040	0.4307	0.6817	-0.0397	0.2264	-0.0582	0.3322
14	18.18	9.84	-0.8449	0.0006	-0.3682	-0.0008	0.4358	0.7287	-0.0359	0.2420	-0.0493	0.3321
15	18.16	9.04	-0.7824	-0.0017	-0.3512	0.0022	0.4607	0.7677	-0.0322	0.2502	-0.0419	0.3259
16	18.11	8.24	-0.6953	-0.0061	-0.3245	0.0088	0.4667	0.8277	-0.0243	0.2654	-0.0294	0.3207
17	18.11	7.44	-0.6182	-0.0079	-0.3017	0.0128	0.4880	0.8228	-0.0217	0.2670	-0.0264	0.3245
18	18.09	6.65	-0.5431	-0.0090	-0.2688	0.0166	0.4948	0.8358	-0.0199	0.2684	-0.0219	0.3211
19	18.10	5.84	-0.4731	-0.0067	-0.2367	0.0143	0.5004	0.8381	-0.0183	0.2718	-0.0218	0.3243
20	18.10	4.96	-0.3986	-0.0062	-0.2083	0.0157	0.5226	0.8603	-0.0145	0.2771	-0.0169	0.3221
21	18.10	4.16	-0.3483	-0.0074	-0.1852	0.0212	0.5315	0.9390	-0.0092	0.2923	-0.0098	0.3113
22	18.10	3.36	-0.2673	-0.0071	-0.1522	0.0267	0.5697	0.9695	-0.0077	0.3056	-0.0080	0.3152
23	18.08	2.65	-0.2144	-0.0067	-0.1269	0.0315	0.5921	1.0209	-0.0073	0.3121	-0.0071	0.3057
24	18.07	1.85	-0.1359	-0.0052	-0.0935	0.0383	0.6879	1.0598	-0.0077	0.3242	-0.0073	0.3060
25	18.06	1.08	-0.0729	-0.0051	-0.0616	0.0649	0.8449	1.0563	-0.0071	0.3281	-0.0068	0.3106
26	18.07	0.37	-0.0145	-0.0050	-0.0335	0.3448	2.3125	1.0940	-0.0081	0.3330	-0.0074	0.3044
27	18.06	-0.35	0.0329	-0.0051	-0.0035	-0.1565	-0.1075	1.1368	-0.0086	0.3459	-0.0076	0.3043
28	18.06	-1.24	0.0900	-0.0048	0.0181	-0.0530	0.1997	1.1746	-0.0096	0.3595	-0.0082	0.3061
29	18.07	-1.96	0.1352	-0.0046	0.0456	-0.0344	0.3377	1.2131	-0.0105	0.3652	-0.0087	0.3011
30	18.05	-2.80	0.2030	-0.0038	0.0786	-0.0190	0.3874	1.2353	-0.0106	0.3747	-0.0086	0.3033
31	18.06	-3.61	0.2704	-0.0023	0.1127	-0.0087	0.4168	1.2636	-0.0115	0.3764	-0.0091	0.2979
32	18.06	-4.45	0.3390	-0.0007	0.1385	-0.0021	0.4084	1.2754	-0.0121	0.3808	-0.0095	0.2986
33	18.06	-5.19	0.4086	0.0015	0.1691	0.0037	0.4137	1.2911	-0.0129	0.3833	-0.0100	0.2969
34	18.05	-5.97	0.4875	0.0040	0.2011	0.0082	0.4126	1.3100	-0.0129	0.3881	-0.0099	0.2963
35	18.06	-6.76	0.5657	0.0044	0.2281	0.0078	0.4032	1.3155	-0.0130	0.3888	-0.0099	0.2956
36	18.06	-7.59	0.6431	0.0078	0.2592	0.0122	0.4030	1.3123	-0.0132	0.3900	-0.0101	0.2972
37	18.07	-8.30	0.7099	0.0079	0.2827	0.0112	0.3983	1.3259	-0.0126	0.3902	-0.0095	0.2943
38	18.09	-9.18	0.8076	0.0066	0.3114	0.0082	0.3856	1.3203	-0.0123	0.3915	-0.0094	0.2966
39	18.10	-9.94	0.8642	0.0040	0.3367	0.0066	0.3896	1.3452	-0.0107	0.3947	-0.0080	0.2934
40	18.12	-10.76	0.9332	0.0025	0.3517	0.0027	0.3768	1.3640	-0.0099	0.3957	-0.0073	0.2901
41	18.16	-11.48	0.9911	0.0002	0.3718	0.0003	0.3752	1.3670	-0.0093	0.3973	-0.0068	0.2906
42	18.13	-12.30	1.0470	-0.0005	0.3887	-0.0005	0.3710	1.3896	-0.0094	0.4019	-0.0068	0.2892
43	18.16	-13.06	1.1105	-0.0011	0.4068	-0.0010	0.3663	1.3993	-0.0081	0.3997	-0.0058	0.2856
44	18.16	-13.86	1.1781	-0.0013	0.4224	-0.0011	0.3586	1.4048	-0.0091	0.4045	-0.0065	0.2880
45	18.19	-14.70	1.2179	-0.0021	0.4375	-0.0018	0.3592	1.4146	-0.0086	0.4050	-0.0061	0.2853
46	18.23	-15.52	1.2802	-0.0013	0.4504	-0.0010	0.3518	1.4282	-0.0090	0.4071	-0.0063	0.2851

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		178		1.05 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	18.24	-16.32	1.3106	0.0001	0.4571	0.0001	0.3488	1.4418	-0.0100	0.4100	-0.0070	0.2843	
48	18.27	-17.08	1.3272	0.0049	0.4577	0.0037	0.3449	1.4573	-0.0126	0.4151	-0.0087	0.2848	
49	18.29	-17.97	1.3486	0.0106	0.4528	0.0079	0.3357	1.4739	-0.0161	0.4252	-0.0110	0.2885	
50	18.29	-18.82	1.3494	0.0202	0.4392	0.0150	0.3255	1.4785	-0.0164	0.4263	-0.0111	0.2883	
51	18.31	-19.59	1.3973	0.0196	0.4506	0.0141	0.3225	1.4759	-0.0170	0.4249	-0.0115	0.2879	

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		179		1.05 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	21.55	19.46	4.4889	-4.3407	-4.4246	4.7377	0.0600	0.1479	-0.9670				
2	21.55	19.02	4.5011	-4.3858	-4.3576	4.7899	0.0730	0.1285	-0.9744				
3	21.53	18.28	4.3958	-4.3804	-4.3140	4.8718	0.0850	0.1310	-0.9965				
4	21.53	17.38	4.4696	-4.5917	-4.2398	4.6569	0.0930	0.1250	-1.0273				
5	21.51	16.62	4.3737	-4.5624	-4.1354	4.6956	0.1110	0.1274	-1.0431				
6	21.51	15.78	4.4278	-4.7321	-3.8827	4.6089	0.1730	0.1294	-1.0687				
7	21.48	15.03	4.3717	-5.0116	-3.7781	4.6794	0.2130	0.1345	-1.1464				
8	21.46	14.27	4.3805	-5.2029	-3.4872	4.3682	0.2290	0.1259	-1.1877				
9	21.45	13.47	4.2640	-5.0898	-3.2300	4.0750	0.3110	0.1358	-1.1881				
10	21.42	12.73	4.4292	-5.8999	-3.0171	3.8770	0.2630	0.1441	-1.3321				
11	21.40	11.94	4.2346	-5.6205	-2.7939	3.8505	0.3350	0.1429	-1.3273				
12	21.37	11.18	4.1490	-5.8165	-2.4787	3.4581	0.3240	0.1367	-1.4019				
13	21.36	10.38	4.1867	-6.0973	-2.4135	3.4359	0.3560	0.1420	-1.4564				
14	21.33	9.52	4.2623	-6.6562	-2.1828	3.1279	0.2910	0.1269	-1.5016				
15	21.30	8.75	4.2440	-6.9175	-1.9454	2.7876	0.2990	0.1402	-1.6299				
16	21.29	7.91	4.2161	-7.0715	-1.6217	2.1834	0.2560	0.1412	-1.6772				
17	21.28	7.10	4.2686	-7.2319	-1.4324	1.8094	0.2660	0.1474	-1.6942				
18	21.28	6.27	4.4199	-7.5467	-1.1814	1.0961	0.2640	0.1375	-1.7074				
19	21.26	5.45	4.4308	-7.7389	-1.0369	0.8997	0.2370	0.1452	-1.7466				
20	21.27	4.64	4.4456	-7.7903	-0.8484	0.4568	0.2590	0.1475	-1.7508				
21	21.24	3.83	4.3965	-8.0259	-0.8587	0.7532	0.2060	0.1574	-1.8255				
22	21.21	3.06	4.2937	-8.1909	-0.6509	0.5843	0.1840	0.1674	-1.9076				
23	21.18	2.29	4.3311	-8.2503	-0.4560	0.1705	0.1230	0.1643	-1.9049				
24	21.17	1.52	4.2916	-8.3840	-0.2737	-0.0598	0.0850	0.1755	-1.9536				
25	21.17	0.72	4.2782	-8.3852	-0.0333	-0.3703	0.0330	0.1752	-1.9600				
26	21.21	0.01	4.4043	-8.2488	-0.1562	0.1327	0.0250	0.1763	-1.8729				
27	21.19	-0.78	4.3428	-8.3207	-0.1844	0.5401	-0.0230	0.1811	-1.9160				
28	21.18	-1.57	4.3004	-8.3143	-0.0557	0.4759	-0.0450	0.1790	-1.9334				
29	21.18	-2.43	4.3094	-8.3839	0.1054	0.3064	-0.1000	0.1776	-1.9455				
30	21.18	-3.17	4.2620	-8.2346	0.2363	0.3751	-0.1270	0.1774	-1.9321				
31	21.19	-4.06	4.2723	-8.1490	0.3180	0.0438	-0.1630	0.1723	-1.9074				
32	21.19	-4.84	4.2666	-8.0830	0.3955	0.0426	-0.1840	0.1743	-1.8945				
33	21.20	-5.59	4.2469	-7.9745	0.7348	-0.4038	-0.2140	0.1754	-1.8777				
34	21.20	-6.39	4.2452	-7.9031	0.8896	-0.6935	-0.2410	0.1766	-1.8616				
35	21.21	-7.22	4.1933	-7.6343	1.0272	-0.9621	-0.2440	0.1741	-1.8206				
36	21.23	-8.01	4.2117	-7.5082	1.2697	-1.4187	-0.2670	0.1697	-1.7827				
37	21.26	-8.84	4.1953	-7.0402	1.4369	-1.7787	-0.2560	0.1803	-1.6781				
38	21.28	-9.61	4.2500	-6.9709	1.6331	-2.0693	-0.2510	0.1712	-1.6402				
39	21.29	-10.41	4.2391	-6.6581	1.9595	-2.6414	-0.2570	0.1579	-1.5721				
40	21.31	-11.16	4.2523	-6.4622	2.0731	-2.8544	-0.2430	0.1622	-1.5197				
41	21.33	-11.97	4.2458	-6.2551	2.2899	-3.2109	-0.2220	0.1607	-1.4732				
42	21.36	-12.72	4.2750	-5.9651	2.5912	-3.5746	-0.2340	0.1499	-1.3953				
43	21.37	-13.54	4.2933	-5.8187	2.7298	-3.7438	-0.2190	0.1461	-1.3553				
44	21.40	-14.36	4.2865	-5.5142	2.8962	-3.9087	-0.2040	0.1434	-1.2864				
45	21.41	-15.19	4.2905	-5.3728	3.1196	-4.0575	-0.1880	0.1380	-1.2523				
46	21.42	-16.01	4.2909	-5.1454	3.3780	-4.2772	-0.1970	0.1256	-1.1991				

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 179 1.05 1.7 0.0 02W0F12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP
47	21.46	-16.82	4.3431	-4.8545	3.5634	-4.3569	-0.1290	0.1220	-1.1178
48	21.48	-17.69	4.4210	-4.7426	3.7868	-4.3436	-0.0650	0.1218	-1.0727
49	21.48	-18.50	4.4147	-4.7228	4.0820	-4.4509	-0.0350	0.1483	-1.0698
50	21.51	-19.36	4.4785	-4.5231	4.2736	-4.7393	0.0100	0.1403	-1.0100
51	21.52	-20.09	4.5833	-4.6229	4.5892	-4.5651	0.0740	0.1398	-1.0086

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	179	1.05	1.7	0.0	BZWF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.55	19.46	-0.2723	0.0569	-0.1444	-0.2089	0.5304	0.5776	0.0381	0.1577	0.0659	0.2730
2	21.55	19.02	-0.2764	0.0560	-0.1414	-0.2027	0.5115	0.5261	0.0382	0.1626	0.0727	0.3091
3	21.53	18.28	-0.2498	0.0554	-0.1371	-0.2219	0.5490	0.5497	0.0381	0.1624	0.0693	0.2954
4	21.53	17.38	-0.2381	0.0544	-0.1265	-0.2284	0.5331	0.5908	0.0379	0.1542	0.0641	0.2610
5	21.51	16.62	-0.1954	0.0545	-0.1166	-0.2789	0.5968	0.6178	0.0376	0.1563	0.0608	0.2529
6	21.51	15.78	-0.1515	0.0504	-0.0986	-0.3329	0.6507	0.5705	0.0375	0.1663	0.0657	0.2915
7	21.48	15.03	-0.0909	0.0450	-0.0790	-0.4950	0.8690	0.6579	0.0373	0.1514	0.0567	0.2302
8	21.46	14.27	-0.1112	0.0466	-0.0784	-0.4190	0.7055	0.6884	0.0381	0.1240	0.0554	0.1801
9	21.45	13.47	-0.0671	0.0403	-0.0641	-0.6005	0.9562	0.5150	0.0386	0.0941	0.0749	0.1828
10	21.42	12.73	-0.0247	0.0420	-0.0503	-1.7001	2.0377	0.6998	0.0383	0.1201	0.0547	0.1716
11	21.40	11.94	-0.0503	0.0335	-0.0492	-0.6748	0.9773	0.5728	0.0384	0.0765	0.0670	0.1335
12	21.37	11.18	-0.0631	0.0306	-0.0579	-0.4849	0.9180	0.5587	0.0390	0.0696	0.0699	0.1246
13	21.36	10.38	0.0160	0.0259	-0.0260	1.6185	-1.6230	0.5771	0.0382	0.0696	0.0663	0.1206
14	21.33	9.52	0.0019	0.0280	-0.0215	14.7605	-11.2984	0.6634	0.0386	0.1053	0.0582	0.1587
15	21.30	8.75	0.0638	0.0254	-0.0068	0.3988	-0.1072	0.6452	0.0381	0.1076	0.0590	0.1668
16	21.29	7.91	0.0948	0.0314	-0.0027	0.3317	-0.0286	0.6510	0.0378	0.0993	0.0581	0.1526
17	21.28	7.10	0.1511	0.0257	0.0206	0.1704	0.1367	0.6327	0.0374	0.1071	0.0591	0.1693
18	21.28	6.27	0.2443	0.0122	0.0581	0.0499	0.2378	0.7392	0.0344	0.1056	0.0466	0.1429
19	21.26	5.45	0.2456	0.0164	0.0550	0.0670	0.2241	0.7628	0.0333	0.1067	0.0436	0.1399
20	21.27	4.64	0.2927	-0.0053	0.0960	-0.0181	0.3281	0.5978	0.0321	0.1414	0.0537	0.2365
21	21.24	3.83	0.1979	0.0050	0.0628	0.0253	0.3176	0.5502	0.0321	0.1416	0.0583	0.2574
22	21.21	3.06	0.2105	0.0074	0.0715	0.0354	0.3399	0.5132	0.0321	0.1426	0.0625	0.2779
23	21.18	2.29	0.1866	0.0197	0.0433	0.1058	0.2319	0.5723	0.0319	0.1278	0.0558	0.2233
24	21.17	1.52	0.1734	0.0254	0.0281	0.1465	0.1619	0.5431	0.0318	0.1267	0.0585	0.2333
25	21.17	0.72	0.1349	0.0359	0.0045	0.2664	0.0337	0.5363	0.0319	0.1252	0.0595	0.2335
26	21.21	0.01	0.0314	0.0037	-0.0006	0.1178	-0.0203	0.5051	0.0317	0.1047	0.0627	0.2073
27	21.19	-0.78	-0.0941	-0.0034	-0.0299	0.0367	0.3183	0.4759	0.0319	0.0950	0.0671	0.1996
28	21.18	-1.57	-0.1417	-0.0140	-0.0400	0.0988	0.2824	0.4130	0.0318	0.0888	0.0770	0.2151
29	21.18	-2.43	-0.2143	-0.0188	-0.0562	0.0877	0.2623	0.4432	0.0318	0.0691	0.0717	0.1559
30	21.18	-3.17	-0.2630	-0.0234	-0.0740	0.0891	0.2815	0.3542	0.0316	0.0644	0.0892	0.1819
31	21.19	-4.06	-0.3059	-0.0257	-0.0822	0.0840	0.2688	0.3846	0.0312	0.0455	0.0811	0.1182
32	21.19	-4.84	-0.3162	-0.0244	-0.0840	0.0931	0.2656	0.3944	0.0308	0.0296	0.0781	0.0752
33	21.20	-5.59	-0.3065	-0.0291	-0.0809	0.0951	0.2641	0.3757	0.0304	0.0198	0.0810	0.0527
34	21.20	-6.39	-0.3047	-0.0243	-0.0871	0.0799	0.2860	0.4212	0.0303	0.0042	0.0719	0.0099
35	21.21	-7.22	-0.2647	-0.0270	-0.0659	0.1020	0.2490	0.3329	0.0294	-0.0001	0.0884	-0.0004
36	21.23	-8.01	-0.2395	-0.0241	-0.0533	0.1006	0.2226	0.3351	0.0284	-0.0085	0.0849	-0.0254
37	21.26	-8.84	-0.1592	-0.0349	-0.0182	0.2195	0.1146	0.2996	0.0271	-0.0186	0.0906	-0.0622
38	21.28	-9.61	-0.1254	-0.0310	-0.0125	0.2476	0.0996	0.2967	0.0259	-0.0292	0.0872	-0.0984
39	21.29	-10.41	-0.0608	-0.0338	-0.0046	0.3558	-0.0763	0.2614	0.0245	-0.0389	0.0937	-0.1488
40	21.31	-11.16	-0.0217	-0.0365	0.0133	1.6817	-0.6115	0.2350	0.0236	-0.0480	0.1006	-0.2042
41	21.33	-11.97	0.0334	-0.0388	0.0271	-1.1615	0.8123	0.1997	0.0228	-0.0580	0.1144	-0.2907
42	21.36	-12.72	0.0574	-0.0365	0.0279	-0.6366	0.4865	0.2144	0.0223	-0.0705	0.1042	-0.3291
43	21.37	-13.54	0.0847	-0.0404	0.0445	-0.4775	0.5257	0.1474	0.0220	-0.0780	0.1446	-0.5291
44	21.40	-14.36	0.1200	-0.0418	0.0566	-0.3483	0.4715	0.1332	0.0215	-0.0949	0.1618	-0.7126
45	21.41	-15.19	0.1449	-0.0466	0.0693	-0.3219	0.4795	0.0951	0.0211	-0.1043	0.2218	-1.0969
46	21.42	-16.01	0.1770	-0.0479	0.0821	-0.2709	0.4637	0.0580	0.0206	-0.1200	0.3560	-2.0685

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACI	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	179	1.05	1.7	0.0	B2NOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.46	-16.82	0.2085	-0.0505	0.0957	-0.2422	0.4589	0.0477	0.0204	-0.1328	0.4286	-2.7842
48	21.48	-17.69	0.2603	-0.0546	0.1102	-0.2097	0.4235	0.0143	0.0198	-0.1421	1.3879	-9.9395
49	21.48	-18.50	0.2820	-0.0560	0.1222	-0.1985	0.4332	0.0035	0.0195	-0.1468	5.5704	-41.9525
50	21.51	-19.36	0.3407	-0.0587	0.1375	-0.1724	0.4036	-0.0506	0.0227	-0.1681	-0.4495	3.3233
51	21.52	-20.09	0.3849	-0.0624	0.1565	-0.1620	0.4065	-0.0611	0.0216	-0.1678	-0.3543	2.7473

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	179	1.05	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	21.55	19.46	-1.3201	0.0010	-0.4931	-0.0008	0.3735	0.3391	-0.0494	0.1414	-0.1458	0.4169
2	21.55	19.02	-1.3086	-0.0002	-0.4905	0.0002	0.3749	0.3462	-0.0498	0.1413	-0.1439	0.4080
3	21.53	18.28	-1.3253	0.0090	-0.5018	-0.0068	0.3786	0.3522	-0.0460	0.1403	-0.1307	0.3982
4	21.53	17.38	-1.2833	0.0021	-0.4826	-0.0017	0.3761	0.3488	-0.0520	0.1559	-0.1303	0.3909
5	21.51	16.62	-1.2798	0.0064	-0.4846	-0.0050	0.3787	0.3903	-0.0529	0.1623	-0.1356	0.4157
6	21.51	15.78	-1.2564	0.0131	-0.4925	-0.0105	0.3923	0.4556	-0.0514	0.1792	-0.1128	0.3933
7	21.48	15.03	-1.2239	0.0127	-0.4837	-0.0104	0.3952	0.5392	-0.0520	0.1940	-0.0964	0.3597
8	21.46	14.27	-1.1733	0.0111	-0.4729	-0.0095	0.4031	0.5952	-0.0488	0.2038	-0.0820	0.3425
9	21.45	13.47	-1.1276	0.0105	-0.4592	-0.0094	0.4073	0.6283	-0.0470	0.2123	-0.0748	0.3378
10	21.42	12.73	-1.0786	0.0081	-0.4402	-0.0075	0.4081	0.6737	-0.0470	0.2273	-0.0647	0.3374
11	21.40	11.94	-1.0311	0.0058	-0.4241	-0.0056	0.4113	0.7381	-0.0403	0.2422	-0.0546	0.3282
12	21.37	11.18	-0.9499	0.0016	-0.4064	-0.0017	0.4278	0.8066	-0.0337	0.2583	-0.0418	0.3202
13	21.36	10.38	-0.8912	0.0011	-0.3916	-0.0012	0.4393	0.8231	-0.0353	0.2630	-0.0429	0.3195
14	21.33	9.52	-0.8320	-0.0016	-0.3676	-0.0019	0.4418	0.8810	-0.0297	0.2790	-0.0337	0.3166
15	21.30	8.75	-0.7494	-0.0036	-0.3482	0.0049	0.4646	0.9095	-0.0269	0.2850	-0.0296	0.3133
16	21.29	7.91	-0.6704	-0.0057	-0.3218	0.0086	0.4800	0.9035	-0.0253	0.2862	-0.0280	0.3167
17	21.28	7.10	-0.6076	-0.0085	-0.2963	0.0140	0.4877	0.9175	-0.0230	0.2931	-0.0251	0.3195
18	21.28	6.27	-0.5274	-0.0091	-0.2588	0.0173	0.4908	0.9465	-0.0212	0.2960	-0.0224	0.3127
19	21.26	5.45	-0.4688	-0.0096	-0.2323	0.0205	0.4955	0.9892	-0.0191	0.3044	-0.0193	0.3077
20	21.27	4.64	-0.3913	-0.0099	-0.2042	0.0253	0.5218	1.0039	-0.0175	0.3148	-0.0175	0.3136
21	21.24	3.83	-0.3235	-0.0107	-0.1696	0.0331	0.5251	1.0696	-0.0157	0.3278	-0.0147	0.3065
22	21.21	3.06	-0.2585	-0.0095	-0.1423	0.0369	0.5506	1.1090	-0.0116	0.3335	-0.0105	0.3008
23	21.18	2.29	-0.1711	-0.0069	-0.1059	0.0406	0.6190	1.1179	-0.0111	0.3345	-0.0099	0.2992
24	21.17	1.52	-0.1075	-0.0055	-0.0758	0.0516	0.7053	1.1422	-0.0098	0.3395	-0.0086	0.2972
25	21.17	0.72	-0.0286	-0.0035	-0.0425	0.1241	1.5010	1.1406	-0.0095	0.3417	-0.0084	0.2996
26	21.21	0.01	0.0090	-0.0037	-0.0203	-0.4110	-2.2557	1.2126	-0.0097	0.3595	-0.0080	0.2964
27	21.19	-0.78	0.0679	-0.0046	0.0103	-0.0677	0.1521	1.2518	-0.0090	0.3735	-0.0072	0.2984
28	21.18	-1.57	0.1212	-0.0038	0.0399	-0.0318	0.3291	1.2477	-0.0078	0.3841	-0.0060	0.2960
29	21.18	-2.43	0.1890	-0.0023	0.0734	-0.0124	0.3882	1.3244	-0.0084	0.3856	-0.0064	0.2912
30	21.18	-3.17	0.2618	0.0012	0.1058	0.0046	0.4043	1.3589	-0.0086	0.3930	-0.0065	0.2892
31	21.19	-4.06	0.3300	0.0038	0.1336	0.0115	0.4047	1.3645	-0.0083	0.3985	-0.0061	0.2920
32	21.19	-4.84	0.4029	0.0060	0.1646	0.0150	0.4084	1.3914	-0.0090	0.3988	-0.0065	0.2866
33	21.20	-5.59	0.4771	0.0061	0.1987	0.0129	0.4164	1.3937	-0.0083	0.4033	-0.0060	0.2894
34	21.20	-6.39	0.5690	0.0078	0.2270	0.0118	0.3989	1.4181	-0.0086	0.4050	-0.0061	0.2856
35	21.21	-7.22	0.6488	0.0092	0.2570	0.0142	0.3961	1.4133	-0.0051	0.4012	-0.0036	0.2838
36	21.23	-8.01	0.7192	0.0080	0.2867	0.0111	0.3987	1.3963	0.0005	0.3966	0.0004	0.2840
37	21.26	-8.84	0.7908	0.0063	0.3110	0.0080	0.3950	1.3675	0.0074	0.3821	0.0055	0.2805
38	21.28	-9.61	0.8681	0.0054	0.3337	0.0062	0.3843	1.3883	0.0061	0.3879	0.0044	0.2794
39	21.29	-10.41	0.9374	0.0030	0.3584	0.0032	0.3823	1.3885	0.0080	0.3856	0.0058	0.2777
40	21.31	-11.16	1.0023	0.0022	0.3734	0.0022	0.3725	1.3958	0.0089	0.3843	0.0064	0.2753
41	21.33	-11.97	1.0650	0.0006	0.3926	0.0006	0.3686	1.3920	0.0090	0.3880	0.0065	0.2787
42	21.36	-12.72	1.1202	-0.0011	0.4114	-0.0010	0.3672	1.3846	0.0104	0.3836	0.0075	0.2770
43	21.37	-13.54	1.1843	-0.0022	0.4261	-0.0019	0.3598	1.3936	0.0107	0.3860	0.0077	0.2770
44	21.40	-14.36	1.2334	-0.0027	0.4419	-0.0022	0.3583	1.3843	0.0119	0.3832	0.0086	0.2768
45	21.41	-15.19	1.2866	-0.0037	0.4568	-0.0029	0.3551	1.4230	0.0109	0.3884	0.0077	0.2729
46	21.42	-16.01	1.3331	-0.0033	0.4676	-0.0025	0.3508	1.4139	0.0113	0.3901	0.0080	0.2759

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MARTIN MISSILE TAILS EFFECTS DATA

POINT	TEST PART		MACH		RX10-6		PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	6	179	1.05	1.7	0.0	BZNOF12								
47	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4		
47	21.46	-16.82	1.3582	0.0003	0.4722	0.0002	0.3476	1.4232	0.0116	0.3932	0.0081	0.2762		
48	21.48	-17.69	1.3670	0.0075	0.4610	0.0055	0.3372	1.4445	0.0102	0.3991	0.0071	0.2763		
49	21.48	-18.50	1.3869	0.0140	0.4594	0.0101	0.3312	1.4792	0.0088	0.4038	0.0060	0.2730		
50	21.51	-19.36	1.4370	0.0152	0.4664	0.0106	0.3246	1.4887	0.0075	0.4108	0.0051	0.2759		
51	21.52	-20.09	1.3857	0.0272	0.4438	0.0196	0.3202	1.5091	0.0066	0.4152	0.0044	0.2751		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	19.52	0.0209	0.2587	-4.0265	7.5638	-0.0200	0.2602	12.3799	
2	-0.01	19.17	0.0265	0.2319	-3.9900	7.5747	-0.0260	0.2496	8.7509	
3	0.0	18.38	-0.0702	0.4292	-3.8806	7.4976	0.0	0.2426	-6.1151	
4	0.01	17.61	0.0100	0.2080	-3.7650	7.3257	-0.0260	0.2540	20.8000	
5	0.0	16.74	0.0160	0.2486	-3.4675	7.0883	-0.0200	0.2672	15.5375	
6	0.02	15.94	-0.0289	0.2994	-3.4514	7.0257	-0.0100	0.2404	-10.3619	
7	0.02	15.23	-0.0543	0.3307	-3.0840	6.6693	-0.0080	0.2647	-6.0350	
8	0.0	14.46	-0.0099	0.2278	-3.0604	6.5783	-0.0060	0.2352	-23.0161	
9	0.0	13.59	-0.0308	0.3281	-2.9279	6.3478	0.0030	0.2371	-10.6532	
10	-0.02	12.88	-0.0600	0.3270	-2.6366	5.9879	0.0110	0.2560	-5.4500	
11	0.01	12.10	-0.0234	0.2777	-2.5710	5.8151	0.0110	0.2422	-11.8701	
12	0.02	11.41	-0.0298	0.2657	-2.3088	5.4640	0.0090	0.2550	-8.9168	
13	-0.02	10.52	-0.0397	0.3085	-2.2379	5.2268	0.0150	0.2546	-7.7728	
14	-0.02	9.81	-0.0230	0.1802	-1.9559	4.8270	0.0170	0.2608	-7.8348	
15	-0.01	8.99	-0.0650	0.2280	-1.8122	4.5048	0.0170	0.2741	-3.5077	
16	0.0	8.23	-0.0336	0.1870	-1.6876	4.1664	0.0150	0.2748	-5.5667	
17	0.0	7.39	-0.0173	0.1742	-1.4920	3.7646	0.0190	0.2624	-10.0705	
18	-0.01	6.58	-0.0035	0.1639	-1.4645	3.5571	0.0210	0.2599	-46.6285	
19	0.01	5.76	-0.0229	0.1520	-1.2030	3.1181	0.0170	0.2564	-6.6402	
20	-0.01	5.00	-0.0215	0.0861	-1.1364	2.7677	0.0160	0.2507	-4.0046	
21	0.0	4.20	0.0131	0.0936	-0.8518	2.2894	0.0130	0.2526	7.1496	
22	-0.01	3.42	-0.0155	0.1023	-0.6485	1.8708	0.0160	0.2703	-7.0552	
23	0.01	2.66	0.0111	0.0675	-0.5822	1.6320	0.0140	0.2589	6.0775	
24	-0.01	1.85	-0.0035	0.0949	-0.4584	1.2897	0.0130	0.2766	-27.1143	
25	0.01	1.13	0.0345	0.0467	-0.2285	0.7598	0.0160	0.2718	1.3536	
26	-0.01	0.39	0.0202	0.0267	-0.1605	0.5236	0.0140	0.2813	1.3228	
27	0.0	-0.41	0.0326	0.0354	-0.0413	0.2478	0.0130	0.2831	1.0847	
28	-0.03	-1.20	0.0249	0.0231	0.0511	-0.0675	0.0120	0.2728	0.9293	
29	-0.03	-2.02	0.0185	0.0341	0.1536	-0.3750	0.0150	0.2801	1.8432	
30	-0.01	-2.79	0.0263	0.0152	0.3463	-0.7677	0.0120	0.2837	0.5772	
31	-0.01	-3.66	0.0102	0.0517	0.4500	-1.0380	0.0140	0.2842	5.0706	
32	-0.01	-4.41	0.0213	0.0472	0.6078	-1.4429	0.0140	0.2871	2.2150	
33	-0.03	-5.18	0.0199	0.0481	0.8203	-1.7913	0.0120	0.2874	2.4191	
34	-0.01	-5.94	0.0111	0.0175	0.8445	-2.1462	0.0140	0.2840	0.7127	
35	0.0	-6.70	0.0140	0.0274	1.0791	-2.5285	0.0130	0.2928	1.9571	
36	0.0	-7.59	0.0295	0.0537	1.2168	-2.9304	0.0130	0.3139	1.8203	
37	0.0	-8.38	0.0194	0.0768	1.4171	-3.3128	0.0110	0.3225	1.3835	
38	0.01	-9.18	0.0364	0.0700	1.5304	-3.7044	0.0090	0.3162	2.1440	
39	-0.01	-9.94	0.0297	-0.0146	1.6761	-3.9893	0.0160	0.3159	-0.4909	
40	0.01	-10.71	0.0541	0.0183	1.8800	-4.3637	0.0110	0.3151	0.3375	
41	-0.01	-11.47	0.0154	-0.0226	1.9480	-4.6230	0.0120	0.3292	-1.4649	
42	-0.01	-12.24	0.0211	-0.0115	2.1273	-4.9940	0.0120	0.3268	-0.5469	
43	-0.03	-12.98	0.0197	0.0004	2.3649	-5.3386	0.0090	0.3119	0.0215	
44	-0.01	-13.71	0.0202	0.0097	2.6043	-5.6277	0.0070	0.3064	0.4812	
45	-0.01	-14.56	0.0166	-0.0222	2.8638	-5.8691	0.0040	0.3138	-1.3398	
46	-0.01	-15.45	0.0227	-0.0308	2.8247	-6.0943	-0.0020	0.3067	-1.3554	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.80	1.10	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	-0.03	-16.24	0.0353	-0.0594	3.0218	-6.4262	0.0020	0.3108	-1.6833		
48	-0.02	-17.06	0.0296	-0.1114	3.2209	-6.6229	-0.0020	0.2449	-3.7644		
49	-0.02	-17.85	-0.0069	0.0037	3.2487	-6.6979	-0.0010	0.3229	-0.5304		
50	0.0	-18.75	-0.0065	0.0021	3.5171	-7.0457	-0.0100	0.3054	-0.3231		
51	-0.01	-19.54	0.0289	-0.0505	3.8273	-7.2860	-0.0060	0.2930	-1.7460		
52	0.0	-20.35	-0.0339	0.0874	4.0980	-7.3949	-0.0060	0.2918	-2.5799		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.10	1.7	0.0	BZM0F12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	19.52	-1.2094	0.0111	-0.3487	-0.0092	0.2883	-0.4477	0.0352	-0.2167	-0.0787	0.4840
2	-0.01	19.17	-1.1673	0.0105	-0.3515	-0.0090	0.3014	-0.4350	0.0351	-0.2109	-0.0808	0.4849
3	0.0	18.38	-1.1898	0.0096	-0.3447	-0.0081	0.2897	-0.4634	0.0349	-0.2182	-0.0754	0.4709
4	0.01	17.61	-1.2052	0.0109	-0.3325	-0.0090	0.2759	-0.4151	0.0352	-0.2177	-0.0848	0.5244
5	0.0	16.74	-1.1017	0.0099	-0.3344	-0.0090	0.3035	-0.4162	0.0355	-0.2200	-0.0853	0.5285
6	0.02	15.94	-1.0434	0.0091	-0.3323	-0.0087	0.3185	-0.4172	0.0349	-0.2186	-0.0837	0.5240
7	0.02	15.23	-1.0506	0.0087	-0.3125	-0.0083	0.2974	-0.4027	0.0350	-0.2214	-0.0869	0.5497
8	0.0	14.46	-0.9925	0.0093	-0.3085	-0.0094	0.3109	-0.4132	0.0352	-0.2176	-0.0853	0.5265
9	0.0	13.59	-0.9465	0.0083	-0.2995	-0.0088	0.3164	-0.4184	0.0352	-0.2173	-0.0841	0.5194
10	-0.02	12.88	-0.9401	0.0091	-0.2836	-0.0097	0.3016	-0.4223	0.0352	-0.2238	-0.0833	0.5299
11	0.01	12.10	-0.8999	0.0090	-0.2778	-0.0105	0.3231	-0.4154	0.0350	-0.2231	-0.0843	0.5371
12	0.02	11.41	-0.8241	0.0090	-0.2674	-0.0110	0.3245	-0.4387	0.0350	-0.2173	-0.0797	0.4952
13	-0.02	10.52	-0.8016	0.0092	-0.2516	-0.0115	0.3139	-0.4276	0.0352	-0.2225	-0.0823	0.5203
14	-0.02	9.81	-0.7390	0.0093	-0.2382	-0.0126	0.3224	-0.4130	0.0349	-0.2209	-0.0845	0.5349
15	-0.01	8.99	-0.6681	0.0089	-0.2320	-0.0134	0.3485	-0.4317	0.0348	-0.2219	-0.0806	0.5141
16	0.0	8.23	-0.6285	0.0097	-0.2179	-0.0154	0.3467	-0.4228	0.0351	-0.2258	-0.0831	0.5340
17	0.0	7.39	-0.5881	0.0084	-0.1930	-0.0144	0.3281	-0.4306	0.0350	-0.2260	-0.0812	0.5248
18	-0.01	6.58	-0.4915	0.0083	-0.1846	-0.0169	0.3755	-0.4158	0.0352	-0.2252	-0.0846	0.5417
19	0.01	5.76	-0.4648	0.0083	-0.1722	-0.0180	0.3704	-0.4357	0.0349	-0.2260	-0.0801	0.5186
20	-0.01	5.00	-0.4257	0.0078	-0.1637	-0.0184	0.3374	-0.4266	0.0349	-0.2223	-0.0818	0.5212
21	0.0	4.20	-0.3151	0.0078	-0.1356	-0.0247	0.4303	-0.4305	0.0349	-0.2223	-0.0812	0.5164
22	-0.01	3.42	-0.2878	0.0076	-0.1078	-0.0266	0.3745	-0.4361	0.0351	-0.2255	-0.0806	0.5171
23	0.01	2.66	-0.2174	0.0072	-0.1006	-0.0331	0.4629	-0.4237	0.0349	-0.2254	-0.0825	0.5319
24	-0.01	1.85	-0.1595	0.0066	-0.0816	-0.0414	0.5119	-0.4374	0.0350	-0.2270	-0.0801	0.5190
25	0.01	1.13	-0.0997	0.0053	-0.0541	-0.0537	0.5428	-0.4526	0.0349	-0.2230	-0.0772	0.4927
26	-0.01	0.39	-0.0437	0.0036	-0.0429	-0.0835	0.9808	-0.4467	0.0349	-0.2278	-0.0781	0.5100
27	0.0	-0.41	-0.0189	0.0035	-0.0184	-0.1852	0.9734	-0.4500	0.0350	-0.2252	-0.0777	0.5005
28	-0.03	-1.20	0.0160	0.0016	0.0027	0.0906	0.1707	-0.4521	0.0348	-0.2276	-0.0769	0.5035
29	-0.03	-2.02	0.1140	0.0002	0.0146	0.0022	0.1280	-0.4717	0.0348	-0.2236	-0.0739	0.4740
30	-0.01	-2.79	0.1419	-0.0016	0.0415	-0.0113	0.2923	-0.4510	0.0349	-0.2269	-0.0775	0.5030
31	-0.01	-3.66	0.1836	-0.0033	0.0604	-0.0183	0.3289	-0.4590	0.0349	-0.2285	-0.0760	0.4979
32	-0.01	-4.41	0.2360	-0.0051	0.0878	-0.0218	0.3722	-0.4306	0.0346	-0.2287	-0.0804	0.5310
33	-0.03	-5.18	0.2579	-0.0061	0.1065	-0.0236	0.4146	-0.4489	0.0349	-0.2293	-0.0777	0.5107
34	-0.01	-5.94	0.3246	-0.0069	0.1283	-0.0212	0.3751	-0.4370	0.0347	-0.2304	-0.0794	0.5272
35	0.0	-6.70	0.3921	-0.0073	0.1474	-0.0186	0.3758	-0.4398	0.0345	-0.2314	-0.0785	0.5262
36	0.0	-7.59	0.4582	-0.0083	0.1628	-0.0181	0.3553	-0.4472	0.0347	-0.2297	-0.0777	0.5136
37	0.0	-8.38	0.5378	-0.0080	0.1735	-0.0151	0.3257	-0.4315	0.0347	-0.2331	-0.0805	0.5401
38	0.01	-9.18	0.5982	-0.0101	0.1902	-0.0169	0.3180	-0.4186	0.0348	-0.2104	-0.0774	0.5254
39	-0.01	-9.94	0.6180	-0.0104	0.2045	-0.0170	0.3119	-0.4394	0.0345	-0.2298	-0.0786	0.5230
40	0.01	-10.71	0.6473	-0.0108	0.2179	-0.0156	0.3126	-0.4483	0.0350	-0.2312	-0.0780	0.5156
41	-0.01	-11.47	0.7365	-0.0123	0.2352	-0.0167	0.3194	-0.4493	0.0350	-0.2311	-0.0779	0.5143
42	-0.01	-12.24	0.7680	-0.0132	0.2535	-0.0172	0.3301	-0.4270	0.0351	-0.2303	-0.0823	0.5393
43	-0.03	-12.98	0.8295	-0.0138	0.2613	-0.0167	0.3150	-0.4071	0.0353	-0.2342	-0.0867	0.5754
44	-0.01	-13.71	0.8922	-0.0143	0.2709	-0.0161	0.3036	-0.4108	0.0347	-0.2331	-0.0846	0.5673
45	-0.01	-14.56	0.9119	-0.0151	0.2816	-0.0166	0.3088	-0.4072	0.0344	-0.2272	-0.0844	0.5579
46	-0.01	-15.45	0.9494	-0.0152	0.2941	-0.0161	0.3097	-0.3987	0.0345	-0.2281	-0.0866	0.5722

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION			
6		180	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	-0.03	-16.24	0.9663	-0.0154	0.3085	-0.0160	0.3192	-0.3890	0.0346	-0.2259	-0.0889	0.5807		
48	-0.02	-17.06	1.0408	-0.0169	0.3092	-0.0162	0.2971	-0.4108	0.0341	-0.2173	-0.0831	0.5289		
49	-0.02	-17.85	1.0182	-0.0164	0.3288	-0.0161	0.3229	-0.4089	0.0336	-0.2208	-0.0821	0.5401		
50	0.0	-18.75	1.0722	-0.0181	0.3322	-0.0169	0.3098	-0.4186	0.0327	-0.2149	-0.0781	0.5133		
51	-0.01	-19.54	1.1348	-0.0186	0.3388	-0.0164	0.2986	-0.4246	0.0327	-0.2143	-0.0771	0.5046		
52	0.0	-20.35	1.1433	-0.0183	0.3447	-0.0160	0.3015	-0.4244	0.0317	-0.2140	-0.0747	0.5042		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		180		1.10 1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4	
1	0.01	19.52	-0.9691	0.0036	-0.3875	-0.0038	0.3999	-0.0605	0.0023	-0.0119	-0.0388	0.1960	
2	-0.01	19.17	-0.9326	0.0041	-0.3925	-0.0044	0.4208	-0.1096	0.0025	-0.0126	-0.0233	0.1151	
3	0.0	18.38	-0.9343	0.0034	-0.3856	-0.0037	0.4127	-0.0144	0.0027	-0.0119	-0.1875	0.8263	
4	0.01	17.61	-0.8973	0.0036	-0.3832	-0.0040	0.4270	-0.0745	0.0031	-0.0102	-0.0416	0.1372	
5	0.0	16.74	-0.8801	0.0031	-0.3750	-0.0035	0.4260	-0.0680	-0.0023	-0.0150	0.0338	0.2200	
6	0.02	15.94	-0.8364	0.0030	-0.3673	-0.0036	0.4391	-0.0938	-0.0024	-0.0020	0.0261	0.0208	
7	0.02	15.23	-0.8086	0.0026	-0.3597	-0.0032	0.4449	-0.0767	-0.0041	-0.0039	0.0541	0.0503	
8	0.0	14.46	-0.7830	0.0029	-0.3522	-0.0037	0.4498	-0.0602	-0.0051	-0.0040	0.0847	0.0658	
9	0.0	13.59	-0.7321	0.0036	-0.3474	-0.0050	0.4746	-0.0779	-0.0059	0.0015	0.0757	-0.0198	
10	-0.02	12.88	-0.7491	0.0021	-0.3268	-0.0029	0.4363	-0.0308	-0.0068	-0.0015	0.2224	0.0475	
11	0.01	12.10	-0.6745	0.0017	-0.3203	-0.0025	0.4749	-0.0265	-0.0067	0.0074	0.2528	-0.2781	
12	0.02	11.41	-0.6407	0.0016	-0.3074	-0.0025	0.4798	-0.0216	-0.0067	0.0009	0.3124	-0.0418	
13	-0.02	10.52	-0.5978	0.0007	-0.2997	-0.0013	0.5013	-0.0260	-0.0054	0.0037	0.2096	-0.1437	
14	-0.02	9.81	-0.5528	0.0006	-0.2827	-0.0011	0.5114	-0.0342	-0.0060	0.0111	0.1754	-0.3247	
15	-0.01	8.99	-0.5109	0.0000	-0.2705	-0.0001	0.5295	-0.0554	-0.0049	0.0153	0.0884	-0.2769	
16	0.0	8.23	-0.4528	-0.0009	-0.2545	0.0020	0.5620	-0.0184	-0.0041	0.0117	0.2255	-0.6342	
17	0.0	7.39	-0.4195	-0.0011	-0.2281	0.0027	0.5437	-0.0320	-0.0038	0.0131	0.1203	-0.4105	
18	-0.01	6.58	-0.3547	-0.0013	-0.2181	0.0038	0.6148	-0.0117	-0.0031	0.0107	0.2649	-0.9146	
19	0.01	5.76	-0.3060	-0.0010	-0.1968	0.0033	0.6429	-0.0329	-0.0026	0.0161	0.0805	-0.4905	
20	-0.01	5.00	-0.2674	-0.0011	-0.1752	0.0043	0.6552	-0.0406	-0.0026	0.0205	0.0653	-0.5042	
21	0.0	4.20	-0.1983	-0.0008	-0.1551	0.0043	0.8027	-0.0055	-0.0030	0.0124	0.5544	-2.2486	
22	-0.01	3.42	-0.1882	-0.0008	-0.1291	0.0045	0.6360	-0.0118	-0.0028	0.0108	0.2372	-0.9125	
23	0.01	2.66	-0.1302	-0.0011	-0.1134	0.0088	0.8708	-0.0090	-0.0032	0.0134	0.3555	-1.4890	
24	-0.01	1.85	-0.1029	-0.0011	-0.0873	0.0107	0.8483	-0.0077	-0.0022	0.0068	0.2922	-0.8876	
25	0.01	1.13	-0.0417	-0.0019	-0.0667	0.0456	1.5494	-0.0330	-0.0023	0.0161	0.0712	-0.4880	
26	-0.01	0.39	-0.0233	-0.0037	-0.0366	0.1588	1.5693	0.0086	-0.0027	0.0084	-0.3197	0.9728	
27	0.0	-0.41	0.0456	-0.0044	-0.0254	-0.0576	-0.5571	0.0116	-0.0030	0.0099	-0.2629	0.8505	
28	-0.03	-1.20	0.0993	-0.0054	-0.0038	-0.0544	-0.0384	-0.0260	-0.0032	0.0153	0.1231	-0.5899	
29	-0.03	-2.02	0.1028	-0.0054	0.0248	-0.0525	0.2418	-0.0420	-0.0030	0.0136	0.0726	-0.3239	
30	-0.01	-2.79	0.1480	-0.0049	0.0404	-0.0334	0.2731	-0.0117	-0.0031	0.0107	0.2649	-0.9146	
31	-0.01	-3.66	0.1807	-0.0047	0.0669	-0.0260	0.3703	-0.0045	-0.0023	0.0075	0.5221	-1.6668	
32	-0.01	-4.41	0.2570	-0.0048	0.0850	-0.0187	0.3309	-0.0205	-0.0037	0.0071	0.1805	-0.3448	
33	-0.03	-5.18	0.3260	-0.0047	0.1020	-0.0144	0.3130	0.0100	-0.0037	0.0036	-0.3699	0.3632	
34	-0.01	-5.94	0.3206	-0.0035	0.1355	-0.0109	0.4227	-0.0280	-0.0030	0.0098	0.1089	-0.3489	
35	0.0	-6.70	0.3952	-0.0023	0.1473	-0.0059	0.3727	-0.0280	-0.0030	0.0098	0.1089	-0.3489	
36	0.0	-7.59	0.4508	-0.0016	0.1686	-0.0037	0.3740	-0.0240	-0.0031	0.0069	0.1312	-0.2876	
37	0.0	-8.38	0.4696	-0.0010	0.1907	-0.0021	0.4060	-0.0089	-0.0030	-0.0007	0.3426	0.0748	
38	0.01	-9.18	0.5233	-0.0000	0.2109	-0.0001	0.4030	0.0074	-0.0030	-0.0001	-0.4121	-0.0181	
39	-0.01	-9.94	0.5587	-0.0001	0.2220	-0.0003	0.3973	-0.0138	-0.0030	0.0058	0.2210	-0.4204	
40	0.01	-10.71	0.6597	0.0009	0.2322	0.0014	0.3520	-0.0196	-0.0022	0.0018	0.1148	-0.0903	
41	-0.01	-11.47	0.6665	0.0010	0.2444	0.0015	0.3742	-0.0340	-0.0030	0.0081	0.0897	-0.2374	
42	-0.01	-12.24	0.7261	0.0026	0.2649	0.0037	0.3658	-0.0192	-0.0037	0.0018	0.1927	-0.0939	
43	-0.03	-12.98	0.7611	0.0021	0.2754	0.0028	0.3619	0.0080	-0.0029	-0.0026	-0.3687	-0.3293	
44	-0.01	-13.71	0.7505	0.0024	0.2964	0.0032	0.3449	-0.0109	-0.0029	-0.0056	0.2660	0.3167	
45	-0.01	-14.56	0.7924	0.0031	0.3043	0.0039	0.3841	-0.0124	-0.0023	-0.0002	0.1855	0.0187	
46	-0.01	-15.45	0.8543	0.0042	0.3132	0.0049	0.4066	-0.0110	-0.0021	-0.0019	0.0798	0.1688	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.03	-16.24	0.8999	0.0050	0.3165	0.0056	0.3517	-0.0211	-0.0021	-0.0044	0.1019	0.2100
48	-0.02	-17.06	0.9350	0.0044	0.3218	0.0047	0.3441	-0.0594	-0.0030	0.0052	0.0513	-0.0877
49	-0.02	-17.65	0.9701	0.0048	0.3336	0.0050	0.3438	-0.0713	-0.0031	0.0001	0.0435	-0.0020
50	0.0	-18.75	0.9932	0.0038	0.3490	0.0039	0.3513	-0.0763	-0.0027	0.0066	0.0360	-0.0862
51	-0.01	-19.54	1.0089	0.0035	0.3595	0.0035	0.3563	-0.0654	-0.0031	0.0030	0.0474	-0.0460
52	0.0	-20.35	1.0602	0.0032	0.3627	0.0030	0.3421	-0.0615	-0.0034	0.0002	0.0553	-0.0034

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	181	1.10	1.7	0.0	B2MUF14	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.12	19.76	0.2224	0.8456	-4.0234	7.4495	-0.1400	0.2544	2.9031	
2	3.08	19.78	0.2699	0.4721	-3.9698	7.3965	-0.1450	0.2599	1.7493	
3	3.11	18.99	0.2312	0.5542	-3.8563	7.2916	-0.1420	0.2525	2.4192	
4	3.09	18.23	0.2658	0.3678	-3.7852	7.2740	-0.1330	0.2366	1.3840	
5	3.09	17.43	0.2578	0.4280	-3.6438	7.2311	-0.1110	0.2383	1.6605	
6	3.10	16.61	0.2702	0.2957	-3.5346	7.1112	-0.1080	0.2499	1.0944	
7	3.09	15.85	0.2477	0.2222	-3.3488	6.9190	-0.0850	0.2495	0.8971	
8	3.09	15.03	0.2747	0.1814	-3.1328	6.6166	-0.0520	0.2495	0.0004	
9	3.07	14.38	0.3064	0.0280	-2.9553	6.4641	-0.0530	0.2572	0.0915	
10	3.06	13.57	0.3235	-0.0379	-2.8671	6.2707	-0.0340	0.2564	-0.1172	
11	3.06	12.82	0.3319	-0.1416	-2.6164	5.8902	-0.0200	0.2616	-0.4268	
12	3.09	12.05	0.3312	-0.1487	-2.5137	5.6829	-0.0150	0.2459	-0.4489	
13	3.04	11.33	0.3532	-0.3834	-2.2686	5.3108	0.0030	0.2565	-1.0657	
14	3.05	10.55	0.3714	-0.4509	-2.1254	5.0573	0.0190	0.2551	-1.2142	
15	3.04	9.70	0.3966	-0.5793	-1.9934	4.7396	0.0230	0.2576	-1.4605	
16	3.03	8.93	0.4396	-0.6975	-1.7367	4.2911	0.0190	0.2678	-1.5865	
17	3.06	8.12	0.4281	-0.7954	-1.7024	4.1261	0.0210	0.2630	-1.8577	
18	3.04	7.34	0.4457	-0.8310	-1.4827	3.7226	0.0230	0.2643	-1.8643	
19	3.02	6.56	0.4908	-0.9931	-1.3437	3.3180	0.0230	0.2541	-2.0233	
20	3.04	5.78	0.4685	-0.9859	-1.1870	3.0307	0.0240	0.2628	-2.1042	
21	3.03	4.93	0.5027	-1.0658	-0.9677	2.6386	0.0160	0.2723	-2.1200	
22	3.01	4.16	0.4904	-1.1296	-0.9052	2.3011	0.0180	0.2655	-2.3032	
23	3.04	3.45	0.4913	-1.1418	-0.7143	1.9249	0.0130	0.2654	-2.3239	
24	3.01	2.65	0.5463	-1.2198	-0.6046	1.5074	0.0160	0.2533	-2.2327	
25	3.02	1.88	0.5130	-1.2272	-0.5634	1.2607	0.0150	0.2570	-2.3920	
26	3.00	1.12	0.5199	-1.2278	-0.3053	0.8453	0.0140	0.2623	-2.3615	
27	3.01	0.36	0.5419	-1.2986	-0.1835	0.5458	0.0140	0.2589	-2.3963	
28	3.02	-0.41	0.5112	-1.2397	-0.0666	0.2594	0.0210	0.2629	-2.4246	
29	3.00	-1.18	0.5468	-1.2935	0.0692	-0.0819	0.0100	0.2810	-2.3654	
30	3.03	-1.97	0.5382	-1.2305	0.3051	-0.4981	0.0130	0.2891	-2.2861	
31	3.03	-2.80	0.5391	-1.1987	0.2778	-0.6588	0.0150	0.2811	-2.2734	
32	3.01	-3.63	0.5609	-1.2782	0.4271	-1.0179	0.0130	0.2853	-2.2708	
33	3.03	-4.43	0.5471	-1.2079	0.6351	-1.4161	0.0100	0.2914	-2.2077	
34	3.02	-5.17	0.4905	-1.1057	0.8160	-1.9123	0.0160	0.3013	-2.2541	
35	3.02	-5.89	0.5006	-1.1388	0.8253	-2.0263	0.0170	0.3039	-2.2748	
36	3.04	-6.70	0.5041	-1.0440	1.0234	-2.4676	0.0150	0.3172	-2.0701	
37	3.05	-7.53	0.4629	-0.9801	1.2332	-2.8744	0.0120	0.3021	-2.1171	
38	3.04	-8.11	0.4728	-0.9249	1.2805	-3.1116	0.0130	0.3228	-1.9667	
39	3.04	-9.10	0.4608	-0.8671	1.5033	-3.5974	0.0130	0.3106	-1.8817	
40	3.05	-9.94	0.4382	-0.8065	1.7565	-3.9959	0.0100	0.2945	-1.8403	
41	3.05	-10.67	0.4204	-0.6888	1.7185	-4.1746	0.0110	0.3230	-1.6331	
42	3.05	-11.42	0.4227	-0.6968	1.9573	-4.6110	0.0130	0.3102	-1.6483	
43	3.05	-12.17	0.3808	-0.5430	2.0964	-4.9047	0.0130	0.3129	-1.4263	
44	3.05	-12.90	0.3612	-0.5086	2.2546	-5.2102	0.0230	0.3181	-1.4083	
45	3.06	-13.71	0.3643	-0.4010	2.5122	-5.6118	0.0210	0.2997	-1.1008	
46	3.06	-14.48	0.3385	-0.2309	2.6753	-5.9062	0.0320	0.3172	-0.6821	

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		181	1.10	1.7	0.0	B2WUFL2	0.0	0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	3.10	-15.37	0.3326	-0.1226	2.8388	-6.1631	0.0490	0.3179	-0.3687				
48	3.08	-16.10	0.3063	-0.0128	3.0512	-6.4224	0.0650	0.3032	-0.0419				
49	3.07	-16.96	0.3176	0.0194	3.2550	-6.6497	0.0920	0.2987	0.0610				
50	3.09	-17.81	0.3288	-0.0363	3.4026	-6.8793	0.1010	0.2875	-0.1105				
51	3.11	-18.65	0.2989	0.0925	3.6239	-7.3202	0.0910	0.2837	0.3096				
52	3.09	-19.50	0.2757	0.2230	3.7388	-7.3861	0.1000	0.2971	0.8089				
53	3.09	-20.28	0.1857	0.3630	3.8977	-7.6145	0.0980	0.2983	1.9549				
54	3.10	-20.60	0.3418	0.1545	4.0801	-7.7028	0.1490	0.2761	0.4520				

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	181	1.10	1.7	0.0	B2WUF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.12	19.76	-1.0381	0.0092	-0.3043	-0.0089	0.2932	-0.1294	0.0348	-0.1438	-0.2689	1.1114
2	3.08	19.78	-1.0385	0.0083	-0.3044	-0.0080	0.2931	-0.1117	0.0347	-0.1386	-0.3106	1.2410
3	3.11	18.99	-1.0165	0.0083	-0.3034	-0.0082	0.2985	-0.1229	0.0348	-0.1370	-0.2835	1.1152
4	3.09	18.23	-1.0009	0.0071	-0.3023	-0.0071	0.3020	-0.1291	0.0352	-0.1376	-0.2730	1.0660
5	3.09	17.43	-0.9969	0.0069	-0.2952	-0.0070	0.2961	-0.1252	0.0353	-0.1413	-0.2823	1.1287
6	3.10	16.61	-0.9744	0.0070	-0.2898	-0.0072	0.2974	-0.1199	0.0356	-0.1419	-0.2969	1.1839
7	3.09	15.85	-0.9385	0.0061	-0.2840	-0.0066	0.3026	-0.1466	0.0354	-0.1445	-0.2418	0.9860
8	3.09	15.03	-0.8977	0.0071	-0.2739	-0.0079	0.3051	-0.1538	0.0360	-0.1452	-0.2340	0.9444
9	3.07	14.38	-0.8505	0.0073	-0.2702	-0.0086	0.3177	-0.1296	0.0358	-0.1415	-0.2766	1.0917
10	3.06	13.57	-0.8168	0.0085	-0.2629	-0.0104	0.3218	-0.1474	0.0359	-0.1435	-0.2435	0.9736
11	3.06	12.82	-0.7787	0.0089	-0.2515	-0.0114	0.3235	-0.1460	0.0360	-0.1455	-0.2469	0.9969
12	3.09	12.05	-0.7390	0.0092	-0.2461	-0.0125	0.3331	-0.1748	0.0359	-0.1458	-0.2056	0.8344
13	3.04	11.33	-0.6828	0.0101	-0.2367	-0.0148	0.3467	-0.1478	0.0356	-0.1468	-0.2408	0.9936
14	3.05	10.55	-0.6628	0.0111	-0.2225	-0.0168	0.3364	-0.1482	0.0358	-0.1512	-0.2415	1.0201
15	3.04	9.70	-0.6205	0.0122	-0.2119	-0.0197	0.3414	-0.1641	0.0352	-0.1495	-0.2145	0.9109
16	3.03	8.93	-0.5871	0.0126	-0.2040	-0.0215	0.3475	-0.1754	0.0352	-0.1506	-0.2009	0.8589
17	3.06	8.12	-0.5459	0.0124	-0.1892	-0.0228	0.3466	-0.1738	0.0353	-0.1480	-0.2031	0.8516
18	3.04	7.34	-0.5195	0.0128	-0.1766	-0.0246	0.3400	-0.1462	0.0347	-0.1550	-0.2373	1.0603
19	3.02	6.56	-0.4826	0.0117	-0.1577	-0.0243	0.3268	-0.1653	0.0342	-0.1488	-0.2069	0.9001
20	3.04	5.78	-0.4301	0.0111	-0.1480	-0.0258	0.3441	-0.1763	0.0343	-0.1564	-0.1948	0.8874
21	3.03	4.93	-0.3756	0.0106	-0.1316	-0.0283	0.3502	-0.1739	0.0343	-0.1566	-0.1975	0.9008
22	3.01	4.16	-0.3415	0.0101	-0.1123	-0.0296	0.3288	-0.1843	0.0338	-0.1544	-0.1836	0.8378
23	3.04	3.45	-0.2498	0.0097	-0.1076	-0.0388	0.4309	-0.1824	0.0338	-0.1590	-0.1855	0.8721
24	3.01	2.65	-0.1906	0.0085	-0.0859	-0.0449	0.4507	-0.1703	0.0338	-0.1617	-0.1987	0.9498
25	3.02	1.88	-0.1439	0.0083	-0.0746	-0.0577	0.5188	-0.1924	0.0338	-0.1623	-0.1756	0.8436
26	3.00	1.12	-0.1162	0.0064	-0.0504	-0.0551	0.4339	-0.2024	0.0337	-0.1617	-0.1667	0.7991
27	3.01	0.36	-0.0439	0.0047	-0.0404	-0.1070	0.9209	-0.2049	0.0336	-0.1619	-0.1640	0.7905
28	3.02	-0.41	-0.0301	0.0019	-0.0114	-0.0648	0.3797	-0.2147	0.0337	-0.1651	-0.1569	0.7692
29	3.00	-1.18	0.0200	0.0005	-0.0034	0.0250	-0.1718	-0.2073	0.0331	-0.1678	-0.1599	0.8098
30	3.03	-1.97	0.0742	-0.0014	0.0198	-0.0189	0.2672	-0.2150	0.0334	-0.1705	-0.1553	0.7932
31	3.03	-2.80	0.0820	-0.0040	0.0471	-0.0494	0.5747	-0.2406	0.0331	-0.1713	-0.1375	0.7123
32	3.01	-3.63	0.1575	-0.0057	0.0594	-0.0365	0.3770	-0.2175	0.0326	-0.1748	-0.1499	0.8040
33	3.03	-4.43	0.2161	-0.0076	0.0766	-0.0354	0.3545	-0.2367	0.0324	-0.1742	-0.1371	0.7363
34	3.02	-5.17	0.2770	-0.0086	0.0942	-0.0310	0.3401	-0.2554	0.0318	-0.1774	-0.1245	0.6946
35	3.02	-5.89	0.3266	-0.0102	0.1029	-0.0312	0.3152	-0.2500	0.0311	-0.1814	-0.1246	0.7336
36	3.04	-6.70	0.3783	-0.0106	0.1262	-0.0281	0.3335	-0.2749	0.0299	-0.1856	-0.1089	0.6750
37	3.05	-7.53	0.3810	-0.0109	0.1485	-0.0287	0.3896	-0.2849	0.0291	-0.1852	-0.1021	0.6501
38	3.04	-8.31	0.4430	-0.0116	0.1590	-0.0262	0.3589	-0.3072	0.0282	-0.1893	-0.0919	0.6160
39	3.04	-9.10	0.4834	-0.0134	0.1723	-0.0277	0.3564	-0.3184	0.0270	-0.1919	-0.0848	0.6026
40	3.05	-9.94	0.5426	-0.0142	0.1872	-0.0263	0.3450	-0.3471	0.0258	-0.2002	-0.0744	0.5766
41	3.05	-10.67	0.5441	-0.0148	0.2002	-0.0273	0.3679	-0.3314	0.0248	-0.2041	-0.0749	0.6159
42	3.05	-11.42	0.6429	-0.0155	0.2002	-0.0242	0.3114	-0.3500	0.0237	-0.2070	-0.0677	0.5914
43	3.05	-12.17	0.6253	-0.0150	0.2238	-0.0241	0.3578	-0.3755	0.0225	-0.2145	-0.0599	0.5712
44	3.05	-12.90	0.6708	-0.0154	0.2305	-0.0230	0.3436	-0.3837	0.0225	-0.2227	-0.0587	0.5803
45	3.06	-13.71	0.7397	-0.0157	0.2402	-0.0212	0.3247	-0.3984	0.0215	-0.2249	-0.0539	0.5646
46	3.06	-14.48	0.7508	-0.0149	0.2528	-0.0198	0.3367	-0.4206	0.0213	-0.2385	-0.0507	0.5671

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION				
6	1.81	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED			
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	Ch2	CB2	XCPF2	YCPF2		
47	3.10	-15.37	0.8353	-0.0145	0.2519	-0.0174	0.3015	-0.4780	0.0215	-0.2466	-0.0451	0.5158		
48	3.08	-16.10	0.8589	-0.0147	0.2655	-0.0172	0.3091	-0.4862	0.0211	-0.2549	-0.0435	0.5242		
49	3.07	-16.96	0.8649	-0.0144	0.2791	-0.0166	0.3227	-0.5783	0.0226	-0.2636	-0.0391	0.4558		
50	3.09	-17.81	0.8811	-0.0144	0.2922	-0.0163	0.3316	-0.5524	0.0227	-0.2686	-0.0411	0.4862		
51	3.11	-18.65	0.9516	-0.0150	0.2917	-0.0158	0.3065	-0.5287	0.0212	-0.2727	-0.0402	0.5157		
52	3.09	-19.50	0.9689	-0.0159	0.3033	-0.0164	0.3130	-0.5897	0.0227	-0.2795	-0.0385	0.4739		
53	3.09	-20.28	0.9921	-0.0154	0.3042	-0.0156	0.3066	-0.5905	0.0213	-0.2833	-0.0361	0.4798		
54	3.10	-20.60	1.0321	-0.0164	0.3173	-0.0159	0.3074	-0.6702	0.0261	-0.2895	-0.0390	0.4320		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF3	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	3.12	19.76	-1.0362	0.0072	-0.4240	-0.0069	0.4092	-0.3036	-0.0172	-0.0742	0.0568	0.2443
2	3.08	19.78	-1.0443	0.0070	-0.4274	-0.0067	0.4092	-0.2873	-0.0185	-0.0732	0.0644	0.2546
3	3.11	18.99	-1.0828	0.0067	-0.4120	-0.0062	0.3805	-0.2855	-0.0180	-0.0712	0.0632	0.2702
4	3.09	18.23	-1.0281	0.0064	-0.4158	-0.0062	0.4044	-0.2580	-0.0225	-0.0662	0.0872	0.2565
5	3.09	17.43	-1.0345	0.0071	-0.4118	-0.0069	0.3981	-0.2715	-0.0286	-0.0508	0.1053	0.1870
6	3.10	16.61	-1.0035	0.0070	-0.4088	-0.0070	0.4073	-0.1954	-0.0340	-0.0470	0.1742	0.2406
7	3.09	15.85	-0.9755	0.0095	-0.4021	-0.0098	0.4122	-0.2011	-0.0347	-0.0357	0.1725	0.1776
8	3.09	15.03	-0.8955	0.0086	-0.3982	-0.0097	0.4446	-0.1831	-0.0399	-0.0114	0.2179	0.0623
9	3.07	14.38	-0.9205	0.0076	-0.3805	-0.0083	0.4134	-0.1517	-0.0409	-0.0056	0.2699	0.0372
10	3.06	13.57	-0.8871	0.0067	-0.3689	-0.0075	0.4158	-0.1058	-0.0442	0.0077	0.4182	-0.0732
11	3.06	12.82	-0.8234	0.0065	-0.3627	-0.0080	0.4404	-0.0450	-0.0428	0.0118	0.9509	-0.2623
12	3.09	12.05	-0.8105	0.0054	-0.3450	-0.0067	0.4257	-0.0745	-0.0425	0.0257	0.5710	-0.3446
13	3.04	11.33	-0.7307	0.0037	-0.3326	-0.0051	0.4551	-0.0635	-0.0429	0.0477	0.6755	-0.7518
14	3.05	10.55	-0.6917	0.0026	-0.3191	-0.0038	0.4613	0.0018	-0.0407	0.0494	-22.6071	27.4443
15	3.04	9.70	-0.6489	0.0021	-0.2993	-0.0033	0.4613	0.0495	-0.0379	0.0536	-0.7655	1.0827
16	3.03	8.93	-0.5938	0.0006	-0.2816	-0.0011	0.4743	0.0985	-0.0344	0.0525	-0.3497	0.5332
17	3.06	8.12	-0.5320	-0.0001	-0.2707	0.0002	0.5087	0.0963	-0.0296	0.0574	-0.3078	0.5959
18	3.04	7.34	-0.4894	-0.0005	-0.2445	0.0010	0.5097	0.1066	-0.0236	0.0626	-0.2406	0.5874
19	3.02	6.56	-0.4534	-0.0008	-0.2174	0.0018	0.4794	0.1014	-0.0215	0.0784	-0.2125	0.7731
20	3.04	5.78	-0.3899	-0.0003	-0.2026	0.0024	0.5196	0.1121	-0.0190	0.0753	-0.1699	0.6722
21	3.03	4.93	-0.3077	-0.0001	-0.1866	0.0003	0.6064	0.1231	-0.0139	0.0798	-0.1133	0.6484
22	3.01	4.16	-0.2705	-0.0011	-0.1580	0.0043	0.5842	0.1593	-0.0128	0.0744	-0.0803	0.4669
23	3.04	3.45	-0.2503	-0.0011	-0.1251	0.0044	0.4998	0.1343	-0.0103	0.0814	-0.0767	0.6065
24	3.01	2.65	-0.1864	-0.0015	-0.1068	0.0080	0.5730	0.1395	-0.0091	0.0843	-0.0652	0.6400
25	3.02	1.88	-0.1028	-0.0024	-0.0875	0.0238	0.8517	0.1870	-0.0085	0.0819	-0.0457	0.4380
26	3.00	1.12	-0.0545	-0.0019	-0.0656	0.0349	1.2048	0.1346	-0.0066	0.0919	-0.0494	0.6831
27	3.01	0.36	-0.0035	-0.0034	-0.0448	0.9855	12.7904	0.1816	-0.0059	0.0877	-0.0328	0.4830
28	3.02	-0.41	0.0492	-0.0039	-0.0263	-0.0803	-0.5347	0.2047	-0.0064	0.0898	-0.0315	0.4387
29	3.00	-1.18	0.0756	-0.0046	0.0054	-0.0608	0.0713	0.1655	-0.0050	0.0946	-0.0302	0.5719
30	3.03	-1.97	0.1354	-0.0044	0.0290	-0.0325	0.2143	0.2009	-0.0044	0.0908	-0.0244	0.4522
31	3.03	-2.80	0.1515	-0.0035	0.0516	-0.0231	0.3425	0.1904	-0.0045	0.0912	-0.0236	0.4792
32	3.01	-3.63	0.2014	-0.0039	0.0815	-0.0196	0.4047	0.1787	-0.0046	0.0997	-0.0260	0.5582
33	3.03	-4.43	0.2972	-0.0029	0.0955	-0.0094	0.3214	0.1801	-0.0039	0.0938	-0.0219	0.5209
34	3.02	-5.17	0.3456	-0.0020	0.1151	-0.0058	0.3329	0.1936	-0.0048	0.0914	-0.0250	0.4722
35	3.02	-5.89	0.3918	-0.0016	0.1392	-0.0041	0.3552	0.2129	-0.0046	0.0919	-0.0216	0.4319
36	3.04	-6.70	0.4624	-0.0004	0.1617	-0.0009	0.3496	0.2028	-0.0031	0.0933	-0.0155	0.4599
37	3.05	-7.53	0.4703	0.0004	0.1848	0.0010	0.4036	0.2044	-0.0035	0.0867	-0.0171	0.4242
38	3.04	-8.31	0.5441	0.0015	0.2098	0.0028	0.3856	0.1963	-0.0037	0.0915	-0.0188	0.4662
39	3.04	-9.10	0.5794	0.0013	0.2287	0.0022	0.3946	0.2043	-0.0030	0.0867	-0.0147	0.4243
40	3.05	-9.94	0.6775	0.0019	0.2454	0.0028	0.3623	0.1651	-0.0014	0.0977	-0.0085	0.5918
41	3.05	-10.67	0.7145	0.0011	0.2598	0.0016	0.3636	0.2044	-0.0022	0.0868	-0.0108	0.4247
42	3.05	-11.42	0.7661	0.0015	0.2775	0.0020	0.3627	0.2128	-0.0017	0.0891	-0.0035	0.4187
43	3.05	-12.17	0.7919	0.0019	0.2992	0.0024	0.3778	0.2047	-0.0012	0.0876	-0.0057	0.4176
44	3.05	-12.90	0.8210	0.0020	0.3202	0.0024	0.3901	0.1786	-0.0013	0.0960	-0.0073	0.5376
45	3.06	-13.71	0.9153	0.0017	0.3254	0.0019	0.3555	0.1912	-0.0013	0.0874	-0.0068	0.4572
46	3.06	-14.48	0.9234	0.0006	0.3439	0.0006	0.3724	0.1762	-0.0012	0.0915	-0.0068	0.5194

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	181	1.10	1.7	0.0	B2WUF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.10	-15.37	0.9546	0.0007	0.3598	0.0008	0.3769	0.2059	-0.0018	0.0900	-0.0091	0.4416
48	3.08	-16.10	1.0248	0.0013	0.3623	0.0013	0.3535	0.1896	-0.0017	0.0919	-0.0092	0.4846
49	3.07	-16.96	1.0246	0.0	0.373E	0.0	0.3640	0.2034	-0.0009	0.0899	-0.0047	0.4419
50	3.09	-17.81	1.0660	0.0006	0.3765	0.0006	0.3536	0.2027	-0.0016	0.0861	-0.0081	0.4250
51	3.11	-18.65	1.1160	0.0013	0.3870	0.0012	0.3467	0.1982	-0.0035	0.0851	-0.0179	0.4296
52	3.09	-19.50	1.1617	0.0026	0.3502	0.0023	0.3359	0.1864	-0.0025	0.0978	-0.0135	0.5190
53	3.09	-20.28	1.1806	0.0029	0.4046	0.0025	0.3427	0.2118	-0.0043	0.0848	-0.0203	0.4003
54	3.10	-20.60	1.1752	0.0028	0.4036	0.0024	0.3434	0.1744	-0.0037	0.1030	-0.0215	0.5907

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.0	1.0	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.16	19.76	0.8081	-0.4314	-3.8778	7.2777	-0.1670	0.2216	-0.5339	
2	6.14	19.32	0.7969	-0.4927	-3.8805	7.1875	-0.1460	0.2206	-0.6183	
3	6.14	18.54	0.7962	-0.4668	-3.9483	7.0954	-0.1570	0.2296	-0.5862	
4	6.13	17.84	0.8017	-0.5864	-3.7379	7.1318	-0.1570	0.2141	-0.7315	
5	6.14	17.00	0.8431	-0.6874	-3.5590	6.9434	-0.1410	0.2191	-0.8153	
6	6.12	16.26	0.8563	-0.7989	-3.4271	6.7886	-0.1210	0.2127	-0.9329	
7	6.10	15.44	0.9058	-1.0891	-3.2224	6.6111	-0.1000	0.2201	-1.2024	
8	6.12	14.67	0.9217	-1.1834	-3.1170	6.3525	-0.0980	0.2246	-1.2639	
9	6.09	13.97	0.9442	-1.3648	-2.9154	6.2023	-0.0720	0.2227	-1.4455	
10	6.09	13.20	0.9250	-1.2740	-2.7319	5.8295	-0.0480	0.2388	-1.3773	
11	6.08	12.43	0.9135	-1.5178	-2.5050	5.6127	-0.0280	0.2356	-1.6616	
12	6.05	11.69	0.8941	-1.5057	-2.3345	5.2630	-0.0100	0.2563	-1.6841	
13	6.04	10.89	0.9044	-1.6491	-2.2089	4.9842	-0.0020	0.2444	-1.6234	
14	6.03	10.13	0.9638	-1.8392	-1.9657	4.6048	0.0340	0.2500	-1.9033	
15	6.07	9.29	1.0000	-1.9139	-1.8858	4.3198	0.0100	0.2533	-1.9139	
16	6.04	8.57	0.9422	-1.9180	-1.7350	4.0268	0.0100	0.2594	-2.0357	
17	6.03	7.71	0.9985	-2.1158	-1.6026	3.7384	0.0170	0.2577	-2.1190	
18	6.01	6.93	1.0264	-2.2358	-1.3939	3.3553	0.0150	0.2662	-2.1784	
19	6.04	6.10	0.9851	-2.2270	-1.2199	2.9407	0.0190	0.2614	-2.2607	
20	6.01	5.35	1.0558	-2.3240	-1.1246	2.6402	0.0180	0.2712	-2.2012	
21	6.01	4.54	1.0544	-2.4830	-0.8977	2.2686	0.0170	0.2732	-2.3550	
22	6.00	3.73	1.0727	-2.4416	-0.7955	1.8876	0.0200	0.2789	-2.2762	
23	6.02	3.01	1.0634	-2.4986	-0.7148	1.6316	0.0170	0.2741	-2.3497	
24	6.01	2.28	1.0743	-2.5558	-0.4605	1.1437	0.0130	0.2645	-2.3792	
25	6.02	1.47	1.0606	-2.5626	-0.4358	0.9611	0.0140	0.2756	-2.4163	
26	6.03	0.73	1.0906	-2.5736	-0.2528	0.6366	0.0150	0.2801	-2.3599	
27	6.01	0.02	1.0662	-2.5325	-0.1581	0.3943	0.0150	0.2911	-2.3753	
28	6.02	-0.77	1.0825	-2.6263	0.0853	0.0416	0.0160	0.2836	-2.4262	
29	6.03	-1.58	1.0729	-2.5949	0.1089	-0.1154	0.0140	0.2834	-2.4224	
30	6.01	-2.43	1.0729	-2.5479	0.2073	-0.3612	0.0160	0.2738	-2.3748	
31	6.01	-3.19	1.0665	-2.5599	0.3622	-0.6810	0.0160	0.2911	-2.4004	
32	6.03	-4.00	1.0602	-2.5291	0.4725	-1.0145	0.0190	0.2866	-2.3856	
33	6.02	-4.79	1.0266	-2.4251	0.5807	-1.3369	0.0170	0.3086	-2.3623	
34	6.02	-5.55	1.0516	-2.4241	0.6985	-1.7168	0.0150	0.3024	-2.3052	
35	6.00	-6.30	1.0623	-2.4530	0.8807	-2.0808	0.0160	0.2991	-2.3073	
36	6.03	-7.12	1.0247	-2.2954	1.1423	-2.4760	0.0170	0.3035	-2.2402	
37	6.03	-7.88	1.0090	-2.2015	1.2727	-2.8837	0.0180	0.2983	-2.1819	
38	6.05	-8.69	1.0136	-2.1359	1.3484	-3.2126	0.0160	0.2908	-2.1073	
39	6.05	-9.45	1.0030	-2.0871	1.5299	-3.5727	0.0230	0.2925	-2.0809	
40	6.07	-10.26	1.0084	-1.9736	1.7494	-3.9646	0.0280	0.2828	-1.9573	
41	6.05	-11.01	1.0045	-1.9212	1.8705	-4.2644	0.0320	0.2984	-1.9126	
42	6.05	-11.80	0.9727	-1.8027	2.0870	-4.6856	0.0370	0.2946	-1.8533	
43	6.05	-12.52	0.9121	-1.6329	2.1426	-4.8614	0.0470	0.3038	-1.7903	
44	6.06	-13.24	0.9277	-1.5507	2.3859	-5.3080	0.0440	0.2950	-1.6716	
45	6.09	-14.11	0.8797	-1.4145	2.5324	-5.5451	0.0430	0.2890	-1.6080	
46	6.05	-14.90	0.8807	-1.3599	2.7452	-5.8671	0.0440	0.2872	-1.5442	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA	IO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.02	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	6.08	-15.75	0.8186	-1.1980	2.8998	-6.2295	0.0510	0.2694	-1.4635		
48	6.08	-16.53	0.8216	-1.1212	3.0582	-6.4722	0.0670	0.2631	-1.3647		
49	6.07	-17.35	0.7700	-0.9560	3.2765	-6.8078	0.0860	0.2655	-1.2416		
50	6.08	-18.20	0.7225	-0.6973	3.3559	-6.8949	0.0910	0.2792	-0.9655		
51	6.11	-19.06	0.7679	-0.6441	3.5973	-7.1620	0.1480	0.2740	-0.8368		
52	6.11	-19.82	0.7254	-0.4566	3.8531	-7.3281	0.1060	0.2568	-0.6295		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	1.10	1.7	0.0	8.2	WOF12	0.0	0	0	0	FIXED				
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	6.16	19.76	-0.8981	0.0152	-0.2832	-0.0170	0.3153	0.1139	0.0373	-0.0669	0.3274	-0.5878		
2	6.14	19.32	-0.9010	0.0166	-0.2738	-0.0185	0.3039	0.1313	0.0365	-0.0661	0.2783	-0.5038		
3	6.14	18.54	-0.9076	0.0177	-0.2717	-0.0195	0.2994	0.1330	0.0364	-0.0642	0.2736	-0.4826		
4	6.13	17.84	-0.8748	0.0149	-0.2674	-0.0171	0.3057	0.1197	0.0370	-0.0608	0.3091	-0.5081		
5	6.14	17.00	-0.8498	0.0159	-0.2680	-0.0188	0.3153	0.1477	0.0369	-0.0657	0.2501	-0.4447		
6	6.12	16.26	-0.8086	0.0160	-0.2645	-0.0198	0.3272	0.1272	0.0366	-0.0662	0.2881	-0.5206		
7	6.10	15.44	-0.8084	0.0164	-0.2540	-0.0203	0.3142	0.1268	0.0368	-0.0641	0.2902	-0.5059		
8	6.12	14.67	-0.7947	0.0161	-0.2461	-0.0203	0.3097	0.1309	0.0370	-0.0683	0.2830	-0.5216		
9	6.09	13.97	-0.7828	0.0170	-0.2310	-0.0218	0.2952	0.1157	0.0368	-0.0695	0.3180	-0.6011		
10	6.09	13.20	-0.6949	0.0180	-0.2399	-0.0259	0.3453	0.0930	0.0372	-0.0797	0.4005	-0.8571		
11	6.08	12.43	-0.6627	0.0197	-0.2253	-0.0298	0.3400	0.0981	0.0372	-0.0755	0.3796	-0.7697		
12	6.05	11.69	-0.6518	0.0193	-0.2134	-0.0296	0.3274	0.0808	0.0372	-0.0790	0.4603	-0.9774		
13	6.04	10.89	-0.6304	0.0207	-0.2044	-0.0329	0.3242	0.0820	0.0372	-0.0841	0.4536	-1.0253		
14	6.03	10.13	-0.5665	0.0213	-0.1541	-0.0377	0.3426	0.0728	0.0371	-0.0827	0.5102	-1.1366		
15	6.07	9.29	-0.5124	0.0227	-0.1897	-0.0443	0.3703	0.0901	0.0371	-0.0909	0.4117	-1.0086		
16	6.04	8.57	-0.4839	0.0220	-0.1752	-0.0454	0.3621	0.0788	0.0368	-0.0922	0.4669	-1.1706		
17	6.03	7.71	-0.4443	0.0231	-0.1621	-0.0521	0.3647	0.0769	0.0366	-0.0890	0.4759	-1.1570		
18	6.01	6.93	-0.4135	0.0231	-0.1492	-0.0558	0.3608	0.0781	0.0364	-0.0891	0.4660	-1.1405		
19	6.04	6.10	-0.3607	0.0229	-0.1401	-0.0635	0.3884	0.0704	0.0360	-0.0985	0.5120	-1.3997		
20	6.01	5.35	-0.3596	0.0225	-0.1208	-0.0625	0.3360	0.0738	0.0359	-0.0977	0.4864	-1.3240		
21	6.01	4.54	-0.2728	0.0212	-0.1116	-0.0777	0.4091	0.0706	0.0355	-0.1003	0.5035	-1.4203		
22	6.00	3.73	-0.2057	0.0203	-0.0980	-0.0987	0.4766	0.0528	0.0356	-0.1058	0.6741	-2.0039		
23	6.02	3.01	-0.1903	0.0188	-0.0812	-0.0990	0.4268	0.0563	0.0355	-0.1096	0.6304	-1.9474		
24	6.01	2.28	-0.0992	0.0165	-0.0731	-0.1668	0.374	0.0382	0.0352	-0.1083	0.9226	-2.8343		
25	6.02	1.47	-0.1143	0.0145	-0.0510	-0.1273	0.4461	0.0264	0.0355	-0.1119	1.3445	-4.2388		
26	6.03	0.73	-0.0555	0.0092	-0.0319	-0.1666	0.5747	0.0112	0.0353	-0.1120	3.1512	-10.0061		
27	6.01	0.02	-0.0149	0.0044	-0.0239	-0.2986	1.6017	0.0002	0.0353	-0.1200	176.4685	-600.1663		
28	6.02	-0.77	0.0176	0.0006	-0.0054	0.0341	-0.3088	0.0005	0.0348	-0.1208	69.6876	-241.6667		
29	6.03	-1.58	0.0172	-0.0039	0.0119	-0.2267	0.6937	-0.0344	0.0350	-0.1243	-1.0173	3.6152		
30	6.01	-2.43	0.0136	-0.0069	0.0261	-0.0544	0.3550	-0.0452	0.0343	-0.1263	-0.7598	2.7956		
31	6.01	-3.19	0.1098	-0.0109	0.0415	-0.0993	0.3778	-0.0468	0.0341	-0.1301	-0.7285	2.7798		
32	6.03	-4.00	0.1559	-0.0135	0.0611	-0.0869	0.3922	-0.0602	0.0336	-0.1334	-0.5580	2.2169		
33	6.02	-4.79	0.1901	-0.0159	0.0753	-0.0836	0.3963	-0.0743	0.0331	-0.1400	-0.4454	1.8850		
34	6.02	-5.55	0.2297	-0.0179	0.0915	-0.0781	0.3985	-0.0759	0.0325	-0.1436	-0.4281	1.8918		
35	6.00	-6.30	0.2844	-0.0186	0.1028	-0.0654	0.3613	-0.0822	0.0315	-0.1502	-0.3831	1.8271		
36	6.03	-7.12	0.3171	-0.0199	0.1214	-0.0629	0.3827	-0.1052	0.0302	-0.1545	-0.2870	1.6691		
37	6.03	-7.88	0.3635	-0.0205	0.1360	-0.0564	0.3742	-0.1256	0.0294	-0.1592	-0.2344	1.2679		
38	6.05	-8.69	0.4181	-0.0218	0.1466	-0.0549	0.3681	-0.1413	0.0286	-0.1636	-0.2024	1.1577		
39	6.05	-9.45	0.4423	-0.0219	0.1575	-0.0496	0.3560	-0.1602	0.0276	-0.1697	-0.1776	1.0592		
40	6.07	-10.26	0.4811	-0.0217	0.1709	-0.0446	0.3415	-0.1816	0.0266	-0.1838	-0.1626	1.1236		
41	6.05	-11.01	0.5090	-0.0216	0.1872	-0.0425	0.3678	-0.1895	0.0263	-0.1863	-0.1388	0.9833		
42	6.05	-11.80	0.5789	-0.0213	0.1897	-0.0368	0.3277	-0.2011	0.0254	-0.1933	-0.1265	0.9613		
43	6.05	-12.52	0.6271	-0.0211	0.2012	-0.0337	0.3208	-0.2571	0.0242	-0.2016	-0.0941	0.7844		
44	6.06	-13.24	0.6567	-0.0206	0.2072	-0.0314	0.3156	-0.2840	0.0240	-0.2079	-0.0845	0.7144		
45	6.09	-14.11	0.6408	-0.0208	0.2113	-0.0324	0.3391	-0.3044	0.0228	-0.2070	-0.0749	0.6800		
46	6.05	-14.90	0.6905	-0.0205	0.2272	-0.0297	0.3290	-0.3226	0.0220	-0.2146	-0.0682	0.6691		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.08	-15.75	0.7282	-0.0209	0.2348	-0.0287	0.3225	-0.3051	0.0212	-0.2186	-0.0696	0.7162
48	6.08	-16.53	0.7572	-0.0196	0.2446	-0.0259	0.3230	-0.3764	0.0207	-0.2265	-0.0547	0.5985
49	6.07	-17.35	0.7934	-0.0179	0.2535	-0.0226	0.3195	-0.3973	0.0200	-0.2381	-0.0503	0.5992
50	6.08	-18.20	0.8373	-0.0170	0.2603	-0.0203	0.3109	-0.4466	0.0199	-0.2424	-0.0445	0.5428
51	6.11	-19.06	0.8475	-0.0153	0.2695	-0.0181	0.3180	-0.5100	0.0212	-0.2681	-0.0416	0.5257
52	6.11	-19.82	0.9120	-0.0154	0.2739	-0.0169	0.3003	-0.5641	0.0219	-0.2739	-0.0389	0.4854

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION				
6	1.10	1.7	0.0	82WOF12	0.6	0	0	0	0	FIXED				
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	6.16	19.76	-1.0874	0.0072	-0.4464	-0.0067	0.4105	-0.2039	-0.0224	-0.0437	0.1098	0.2145		
2	6.14	19.32	-1.0915	0.0079	-0.4447	-0.0072	0.4074	-0.1760	-0.0280	-0.0282	0.1591	0.1605		
3	6.14	18.54	-1.1040	0.0074	-0.4358	-0.0067	0.3947	-0.1984	-0.0238	-0.0333	0.1199	0.1679		
4	6.13	17.84	-1.0736	0.0085	-0.4373	-0.0079	0.4073	-0.1446	-0.0312	-0.0293	0.2157	0.2025		
5	6.14	17.00	-1.0474	0.0082	-0.4370	-0.0078	0.4172	-0.2010	-0.0296	-0.0080	0.1475	0.0397		
6	6.12	16.26	-1.0163	0.0082	-0.4275	-0.0081	0.4211	-0.1247	-0.0361	0.0018	0.2894	-0.0148		
7	6.10	15.44	-1.0108	0.0090	-0.4219	-0.0089	0.4174	-0.0709	-0.0373	0.0135	0.3267	-0.1901		
8	6.12	14.67	-0.9947	0.0089	-0.4087	-0.0090	0.4109	-0.0922	-0.0386	0.0304	0.4186	-0.3295		
9	6.09	13.97	-0.9013	0.0086	-0.4062	-0.0096	0.4507	0.0152	-0.0396	0.0346	-2.6081	2.2740		
10	6.09	13.20	-0.8842	0.0077	-0.3856	-0.0087	0.4361	0.0244	-0.0393	0.0527	-1.6104	2.1611		
11	6.08	12.43	-0.8242	0.0061	-0.3735	-0.0074	0.4532	0.0991	-0.0394	0.0654	-0.3980	0.6602		
12	6.05	11.69	-0.7631	0.0053	-0.3593	-0.0069	0.4709	0.0925	-0.0379	0.0752	-0.4102	0.8132		
13	6.04	10.89	-0.7406	0.0032	-0.3432	-0.0043	0.4635	0.1352	-0.0383	0.0803	-0.2836	0.5943		
14	6.03	10.13	-0.6597	0.0026	-0.3286	-0.0039	0.4981	0.1630	-0.0367	0.0889	-0.2254	0.5455		
15	6.07	9.29	-0.6563	0.0007	-0.3019	-0.0011	0.4600	0.1728	-0.0345	0.1040	-0.1996	0.6017		
16	6.04	8.57	-0.5895	-0.0003	-0.2845	-0.0005	0.4826	0.2083	-0.0321	0.1047	-0.1541	0.5027		
17	6.03	7.71	-0.5256	-0.0018	-0.2691	0.0034	0.5120	0.2215	-0.0292	0.1181	-0.1318	0.5332		
18	6.01	6.93	-0.4665	-0.0025	-0.2470	0.0025	0.5295	0.2322	-0.0258	0.1254	-0.1111	0.5404		
19	6.04	6.10	-0.4012	-0.0035	-0.2232	0.0088	0.5562	0.2668	-0.0231	0.1225	-0.0866	0.5592		
20	6.01	5.35	-0.3317	-0.0036	-0.2058	0.0110	0.6204	0.3169	-0.0209	0.1301	-0.0661	0.4105		
21	6.01	4.54	-0.2659	-0.0037	-0.1771	0.0131	0.6192	0.3074	-0.0168	0.1376	-0.0546	0.4477		
22	6.00	3.73	-0.2502	-0.0030	-0.1448	0.0122	0.5790	0.3041	-0.0133	0.1438	-0.0437	0.4729		
23	6.02	3.01	-0.1792	-0.0029	-0.1313	0.0162	0.7328	0.3224	-0.0119	0.1425	-0.0370	0.4421		
24	6.01	2.28	-0.1244	-0.0031	-0.1000	0.0253	0.8043	0.3565	-0.0098	0.1454	-0.0276	0.4078		
25	6.02	1.47	-0.0778	-0.0033	-0.0750	0.0431	0.9643	0.3430	-0.0085	0.1546	-0.0249	0.4507		
26	6.03	0.73	-0.0010	-0.0032	-0.0567	3.1944	56.7332	0.3587	-0.0075	0.1520	-0.0209	0.4238		
27	6.01	0.02	-0.0056	-0.0038	-0.0230	0.6874	4.1011	0.3721	-0.0058	0.1570	-0.0157	0.4215		
28	6.02	-0.77	0.0706	-0.0049	-0.0054	-0.0694	-0.0761	0.3862	-0.0067	0.1663	-0.0173	0.4305		
29	6.03	-1.58	0.1245	-0.0039	0.0132	-0.0317	0.1059	0.4075	-0.0067	0.1635	-0.0164	0.4012		
30	6.01	-2.43	0.1543	-0.0039	0.0406	-0.0253	0.2632	0.4120	-0.0067	0.1690	-0.0164	0.4101		
31	6.01	-3.19	0.2013	-0.0027	0.0659	-0.0137	0.3273	0.4381	-0.0059	0.1679	-0.0135	0.3832		
32	6.03	-4.00	0.2672	-0.0022	0.0932	-0.0082	0.3489	0.4179	-0.0065	0.1745	-0.0155	0.4174		
33	6.02	-4.79	0.2946	-0.0004	0.1233	-0.0014	0.4184	0.4124	-0.0055	0.1739	-0.0133	0.4217		
34	6.02	-5.55	0.3948	0.0005	0.1376	0.0014	0.3484	0.4528	-0.0056	0.1707	-0.0124	0.3769		
35	6.00	-6.30	0.4302	0.0013	0.1642	0.0031	0.3816	0.4376	-0.0050	0.1817	-0.0114	0.4152		
36	6.03	-7.12	0.4688	0.0025	0.1541	0.0054	0.4140	0.4367	-0.0041	0.1815	-0.0094	0.4156		
37	6.03	-7.88	0.5819	0.0019	0.2018	0.0033	0.3468	0.4470	-0.0041	0.1775	-0.0093	0.3972		
38	6.05	-8.69	0.6018	0.0021	0.2330	0.0036	0.3872	0.4184	-0.0040	0.1857	-0.0096	0.4438		
39	6.05	-9.45	0.6691	0.0029	0.2442	0.0044	0.3650	0.4662	-0.0031	0.1806	-0.0068	0.3875		
40	6.07	-10.26	0.6870	0.0018	0.2780	0.0027	0.4047	0.4495	-0.0023	0.1790	-0.0051	0.3982		
41	6.05	-11.01	0.7531	0.0016	0.2931	0.0021	0.3892	0.4576	-0.0022	0.1820	-0.0049	0.3977		
42	6.05	-11.80	0.8076	0.0013	0.3099	0.0016	0.3837	0.4442	-0.0019	0.1866	-0.0044	0.4201		
43	6.05	-12.52	0.8853	0.0015	0.3217	0.0018	0.3634	0.4276	-0.0005	0.1852	-0.0013	0.4331		
44	6.06	-13.24	0.9160	0.0008	0.3391	0.0009	0.3702	0.5004	-0.0006	0.1787	-0.0012	0.3572		
45	6.09	-14.11	0.9675	-0.0006	0.3537	-0.0007	0.3656	0.4757	-0.0010	0.1813	-0.0022	0.3811		
46	6.09	-14.90	1.0284	-0.0011	0.3647	-0.0011	0.3965	0.4634	-0.0016	0.1870	-0.0036	0.4039		

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	182	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	LM4	CB4	XCPF4	YCPF4
47	6.08	-15.75	1.0573	-0.0004	0.3824	-0.0004	0.3617	0.4826	-0.0024	0.1856	-0.0050	0.3846
48	6.08	-16.53	1.1181	-0.0007	0.3507	-0.0007	0.3494	0.4758	-0.0019	0.1871	-0.0040	0.3933
49	6.07	-17.35	1.1230	0.0013	0.4049	0.0012	0.3605	0.4732	-0.0024	0.1866	-0.0051	0.3943
50	6.08	-18.20	1.2220	0.0006	0.3979	0.0005	0.3256	0.4621	-0.0030	0.1819	-0.0065	0.3936
51	6.11	-19.06	1.2162	0.0016	0.4125	0.0014	0.3392	0.5137	-0.0019	0.1874	-0.0037	0.3647
52	6.11	-19.82	1.2524	0.0058	0.4169	0.0047	0.3329	0.4895	-0.0020	0.1875	-0.0042	0.3831

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	183	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.18	19.53	1.4547	-1.6146	-3.8410	6.7872	-0.1820	0.2515	-1.1099		
2	9.17	19.48	1.4212	-1.6187	-3.8855	6.7675	-0.1610	0.2406	-1.1390		
3	9.16	19.10	1.4407	-1.6060	-3.8916	6.6891	-0.1640	0.2483	-1.1148		
4	9.16	18.39	1.4849	-1.9459	-3.7926	6.6695	-0.1650	0.2364	-1.3104		
5	9.19	17.58	1.4667	-1.8614	-3.6851	6.5860	-0.1480	0.2407	-1.2691		
6	9.16	16.76	1.4668	-1.9345	-3.6278	6.4568	-0.1370	0.2320	-1.3189		
7	9.15	16.02	1.4843	-2.1350	-3.4465	6.3455	-0.1050	0.2328	-1.4504		
8	9.13	15.28	1.5011	-2.3475	-3.2027	6.1505	-0.0790	0.2198	-1.5639		
9	9.13	14.49	1.5434	-2.4317	-3.0826	5.9417	-0.0710	0.2287	-1.5756		
10	9.10	13.74	1.5164	-2.5529	-2.8964	5.7948	-0.0590	0.2219	-1.6835		
11	9.13	12.96	1.5760	-2.8183	-2.7073	5.4181	-0.0290	0.2187	-1.7883		
12	9.12	12.25	1.5262	-2.8496	-2.4536	5.2118	-0.0080	0.2274	-1.8671		
13	9.09	11.44	1.5413	-2.9657	-2.3424	4.9481	-0.0020	0.2392	-1.9242		
14	9.09	10.70	1.5668	-3.0684	-2.2142	4.6527	-0.0010	0.2369	-1.9584		
15	9.08	9.85	1.5749	-3.1787	-1.9891	4.3196	0.0190	0.2368	-2.0184		
16	9.07	9.12	1.5708	-3.3110	-1.8039	3.9352	0.0260	0.2473	-2.1078		
17	9.06	8.25	1.5996	-3.3883	-1.6491	3.6215	0.0320	0.2469	-2.1182		
18	9.06	7.52	1.5789	-3.4053	-1.4836	3.3149	0.0370	0.2463	-2.1568		
19	9.03	6.76	1.5868	-3.5253	-1.3076	2.8945	0.0320	0.2615	-2.2242		
20	9.05	5.96	1.6019	-3.5655	-1.1884	2.5957	0.0310	0.2573	-2.2258		
21	9.03	5.07	1.6265	-3.7129	-1.0672	2.2769	0.0220	0.2449	-2.2826		
22	9.04	4.30	1.6540	-3.8124	-0.8626	1.8825	0.0210	0.2521	-2.3050		
23	9.04	3.49	1.6337	-3.7760	-0.7587	1.5621	0.0130	0.2569	-2.3113		
24	9.03	2.83	1.6586	-3.8198	-0.5405	1.1497	0.0120	0.2705	-2.3031		
25	9.01	2.00	1.6303	-3.8522	-0.4120	0.9158	0.0160	0.2677	-2.3629		
26	9.01	1.27	1.6103	-3.8542	-0.3731	0.7752	0.0130	0.2691	-2.3935		
27	9.03	0.46	1.6558	-3.9065	-0.1056	0.3738	0.0180	0.2850	-2.3536		
28	9.03	-0.20	1.6565	-3.9539	-0.0250	0.2036	0.0150	0.2906	-2.3869		
29	9.02	-1.03	1.6272	-3.8779	0.0821	-0.0649	0.0130	0.2837	-2.3832		
30	9.03	-1.84	1.6431	-3.9001	0.0621	-0.1179	0.0160	0.2897	-2.3737		
31	9.03	-2.64	1.6457	-3.8937	0.2525	-0.3645	0.0220	0.2877	-2.3660		
32	9.03	-3.41	1.5942	-3.8527	0.3189	-0.5844	0.0230	0.2669	-2.4167		
33	9.02	-4.27	1.6127	-3.7726	0.4622	-0.8831	0.0200	0.2829	-2.3393		
34	9.04	-5.01	1.6056	-3.7686	0.5956	-1.2028	0.0160	0.2829	-2.3472		
35	9.04	-5.76	1.6039	-3.6993	0.8182	-1.6754	0.0100	0.2956	-2.3064		
36	9.04	-6.51	1.5646	-3.6082	0.9242	-1.9268	0.0120	0.2816	-2.3062		
37	9.05	-7.34	1.6186	-3.5828	1.1820	-2.4148	0.0120	0.2911	-2.2136		
38	9.05	-8.13	1.5857	-3.4708	1.2782	-2.7464	0.0070	0.2880	-2.1888		
39	9.07	-8.94	1.6122	-3.4069	1.4269	-3.1295	0.0170	0.2847	-2.1132		
40	9.05	-9.72	1.5600	-3.2878	1.6723	-3.5536	0.0210	0.2911	-2.1076		
41	9.08	-10.49	1.5832	-3.2183	1.7287	-3.7350	0.0300	0.2923	-2.0328		
42	9.08	-11.21	1.5708	-3.1580	1.8503	-4.1492	0.0520	0.2927	-2.0104		
43	9.08	-11.99	1.5759	-3.0951	2.1142	-4.4977	0.0730	0.2877	-1.9640		
44	9.08	-12.73	1.5744	-2.9281	2.2088	-4.8101	0.0920	0.2938	-1.8598		
45	9.09	-13.51	1.5500	-2.8579	2.4400	-5.2107	0.0820	0.2910	-1.8438		
46	9.09	-14.39	1.4870	-2.6917	2.5772	-5.4428	0.0800	0.2785	-1.8102		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	9.11	-15.20	1.5069	-2.6086	2.7696	-5.7402	0.1030	0.2736	-1.7311	
48	9.12	-15.99	1.5237	-2.5671	2.9475	-6.0273	0.1240	0.2766	-1.6848	
49	9.10	-16.83	1.5342	-2.4668	3.0404	-6.1483	0.1540	0.2852	-1.6079	
50	9.13	-17.58	1.5092	-2.3499	3.2729	-6.4418	0.1590	0.2736	-1.5570	
51	9.14	-18.51	1.4820	-2.1528	3.4389	-6.5982	0.1810	0.2634	-1.4526	
52	9.12	-19.30	1.4511	-1.9706	3.7113	-6.8626	0.2060	0.2540	-1.3580	
53	9.17	-20.11	1.4946	-1.8255	3.9725	-6.9593	0.2400	0.2315	-1.2214	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	18.1	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.18	19.53	-0.8104	0.0298	-0.2475	-0.0368	0.3055	0.3704	0.0349	-0.0025	0.0942	-0.0069
2	9.17	19.48	-0.8100	0.0300	-0.2448	-0.0370	0.3022	0.3695	0.0351	-0.0059	0.0950	-0.0161
3	9.16	19.10	-0.7840	0.0300	-0.2474	-0.0383	0.3156	0.3619	0.0351	-0.0051	0.0971	-0.0140
4	9.16	18.39	-0.7894	0.0281	-0.2420	-0.0356	0.3066	0.3885	0.0348	0.0035	0.0908	0.0042
5	9.14	17.58	-0.7703	0.0285	-0.2355	-0.0371	0.3109	0.3566	0.0350	-0.0020	0.0981	-0.0057
6	9.16	16.76	-0.7394	0.0297	-0.2385	-0.0402	0.3225	0.3567	0.0349	-0.0044	0.0979	-0.0124
7	9.15	16.02	-0.6921	0.0307	-0.2295	-0.0444	0.3316	0.3735	0.0346	-0.0036	0.0927	-0.0097
8	9.13	15.28	-0.6634	0.0302	-0.2264	-0.0455	0.3414	0.3718	0.0346	-0.0066	0.0932	-0.0177
9	9.13	14.49	-0.6624	0.0312	-0.2140	-0.0471	0.3231	0.3674	0.0343	-0.0062	0.0935	-0.0170
10	9.10	13.74	-0.6141	0.0308	-0.2141	-0.0502	0.3487	0.3596	0.0347	-0.0085	0.0965	-0.0237
11	9.13	12.96	-0.5834	0.0311	-0.2001	-0.0533	0.3430	0.3495	0.0347	-0.0093	0.0992	-0.0266
12	9.12	12.25	-0.5591	0.0312	-0.1865	-0.0558	0.3343	0.3467	0.0344	-0.0152	0.0992	-0.0439
13	9.09	11.44	-0.5144	0.0326	-0.1888	-0.0634	0.3670	0.3461	0.0346	-0.0237	0.1001	-0.0686
14	9.09	10.70	-0.5008	0.0332	-0.1759	-0.0664	0.3512	0.3321	0.0349	-0.0230	0.1050	-0.0693
15	9.08	9.85	-0.4413	0.0335	-0.1662	-0.0759	0.3765	0.2969	0.0352	-0.0249	0.1185	-0.0640
16	9.07	9.12	-0.3976	0.0344	-0.1570	-0.0865	0.3948	0.3021	0.0353	-0.0277	0.1170	-0.0917
17	9.06	8.25	-0.3440	0.0335	-0.1408	-0.0873	0.3665	0.2774	0.0353	-0.0272	0.1274	-0.0981
18	9.06	7.52	-0.3143	0.0342	-0.1341	-0.1088	0.4267	0.2683	0.0353	-0.0353	0.1317	-0.1316
19	9.03	6.76	-0.2804	0.0338	-0.1235	-0.1207	0.4405	0.2690	0.0352	-0.0370	0.1308	-0.1374
20	9.05	5.96	-0.2214	0.0339	-0.1184	-0.1533	0.5347	0.2449	0.0352	-0.0390	0.1439	-0.1592
21	9.03	5.07	-0.2218	0.0339	-0.1070	-0.1528	0.4824	0.2531	0.0353	-0.0402	0.1396	-0.1587
22	9.04	4.30	-0.1568	0.0359	-0.0910	-0.2292	0.5807	0.2436	0.0353	-0.0425	0.1449	-0.1746
23	9.04	3.49	-0.1122	0.0361	-0.0809	-0.3217	0.7209	0.2434	0.0351	-0.0473	0.1444	-0.1943
24	9.03	2.83	-0.1289	0.0334	-0.0649	-0.2595	0.5039	0.2125	0.0353	-0.0515	0.1661	-0.2423
25	9.01	2.00	-0.0858	0.0266	-0.0523	-0.3106	0.6094	0.2154	0.0354	-0.0586	0.1645	-0.2722
26	9.01	1.27	-0.0457	0.0198	-0.0415	-0.4343	0.9087	0.1897	0.0352	-0.0580	0.1855	-0.3057
27	9.03	0.46	-0.0061	0.0094	-0.0315	-1.5489	5.1693	0.1677	0.0355	-0.0651	0.2116	-0.3883
28	9.03	-0.20	-0.0444	0.0031	-0.0102	-0.0698	0.2296	0.1728	0.0355	-0.0700	0.2057	-0.4052
29	9.02	-1.03	0.0146	-0.0024	-0.0098	-0.1644	-0.6736	0.1512	0.0350	-0.0783	0.2318	-0.5180
30	9.03	-1.84	0.0276	-0.0090	0.0050	-0.3260	0.1810	0.1438	0.0348	-0.0846	0.2423	-0.5882
31	9.03	-2.64	0.0358	-0.0174	0.0266	-0.4813	0.7438	0.1325	0.0346	-0.0901	0.2611	-0.6804
32	9.03	-3.41	0.0663	-0.0234	0.0371	-0.3536	0.5595	0.1123	0.0341	-0.0962	0.3036	-0.8565
33	9.02	-4.27	0.1229	-0.0280	0.0521	-0.2282	0.4243	0.0784	0.0316	-0.1018	0.3414	-1.0347
34	9.04	-5.01	0.1167	-0.0285	0.0690	-0.2446	0.5211	0.0963	0.0329	-0.1087	0.3416	-1.1289
35	9.04	-5.76	0.1572	-0.0303	0.0823	-0.1977	0.5234	0.0871	0.0321	-0.1132	0.3691	-1.2494
36	9.04	-6.51	0.1953	-0.0295	0.0898	-0.1510	0.4597	0.0585	0.0313	-0.1165	0.3358	-1.9916
37	9.05	-7.34	0.2091	-0.0296	0.1112	-0.1418	0.5317	0.0361	0.0303	-0.1236	0.8406	-3.4256
38	9.05	-8.13	0.2473	-0.0317	0.1234	-0.1282	0.4990	0.0391	0.0295	-0.1308	0.7543	-3.3471
39	9.07	-8.94	0.2948	-0.0319	0.1365	-0.1083	0.4631	0.0168	0.0284	-0.1398	1.6702	-8.3215
40	9.05	-9.72	0.3467	-0.0319	0.1446	-0.0921	0.4171	-0.0137	0.0279	-0.1466	-2.0361	10.7055
41	9.08	-10.49	0.4188	-0.0323	0.1521	-0.0772	0.3631	-0.0407	0.0270	-0.1538	-0.5781	3.2947
42	9.08	-11.21	0.4757	-0.0322	0.1618	-0.0677	0.3402	-0.0789	0.0265	-0.1639	-0.3364	2.0772
43	9.08	-11.99	0.4798	-0.0307	0.1794	-0.0641	0.3738	-0.1061	0.0260	-0.1751	-0.2450	1.6508
44	9.08	-12.73	0.5313	-0.0305	0.1972	-0.0574	0.3712	-0.1749	0.0259	-0.1798	-0.1483	1.0285
45	9.09	-13.51	0.6029	-0.0305	0.1946	-0.0506	0.3228	-0.1621	0.0253	-0.1823	-0.1564	1.1247
46	9.09	-14.39	0.5956	-0.0306	0.2090	-0.0514	0.3508	-0.1812	0.0251	-0.1861	-0.1388	1.0275

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		1.83	1.10	1.7	0.0	B2MDF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	9.11	-15.20	0.6230	-0.0304	0.2156	-0.0488	0.3461	-0.2398	0.0248	-0.1992	-0.1034	0.8307	
48	9.12	-15.99	0.6436	-0.0301	0.2253	-0.0468	0.3564	-0.2742	0.0249	-0.2066	-0.0908	0.7537	
49	9.10	-16.83	0.6791	-0.0284	0.2424	-0.0419	0.3569	-0.3281	0.0254	-0.2163	-0.0775	0.6592	
50	9.13	-17.58	0.7481	-0.0258	0.2441	-0.0345	0.3263	-0.3773	0.0250	-0.2195	-0.0664	0.5818	
51	9.14	-18.51	0.7462	-0.0243	0.2570	-0.0326	0.3445	-0.3929	0.0249	-0.2259	-0.0635	0.5749	
52	9.12	-19.30	0.8136	-0.0234	0.2573	-0.0288	0.3163	-0.4520	0.0258	-0.2383	-0.0572	0.5272	
53	9.17	-20.11	0.8670	-0.0239	0.2634	-0.0276	0.3038	-0.5284	0.0281	-0.2537	-0.0533	0.4800	

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	183	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	9.18	19.53	-1.1534	0.0074	-0.4504	-0.0085	0.3905	-0.1169	-0.0259	-0.0037	0.2215	0.0312
2	9.17	19.48	-1.1565	0.0074	-0.4476	-0.0064	0.3871	-0.0851	-0.0277	0.0053	0.3260	-0.0628
3	9.16	19.10	-1.1397	0.0074	-0.4479	-0.0065	0.3930	-0.1228	-0.0234	0.0103	0.2316	-0.0837
4	9.16	18.39	-1.1314	0.0064	-0.4461	-0.0057	0.3963	-0.0808	-0.0276	0.0057	0.3108	-0.0643
5	9.19	17.58	-1.1087	0.0071	-0.4470	-0.0064	0.4032	-0.0547	-0.0301	0.0193	0.5511	-0.3523
6	9.16	16.76	-1.1136	0.0073	-0.4396	-0.0066	0.3967	-0.0629	-0.0290	0.0243	0.4610	-0.3870
7	9.15	16.02	-1.0541	0.0060	-0.4400	-0.0057	0.4174	0.0378	-0.0347	0.0487	-0.9178	1.2882
8	9.13	15.28	-1.0466	0.0072	-0.4234	-0.0069	0.4046	0.0549	-0.0357	0.0635	-0.6502	1.1565
9	9.13	14.49	-0.9903	0.0090	-0.4208	-0.0091	0.4249	0.0826	-0.0374	0.0755	-0.4533	0.9143
10	9.10	13.74	-0.9640	0.0090	-0.4069	-0.0093	0.4221	0.0980	-0.0376	0.0827	-0.3841	0.8444
11	9.13	12.96	-0.9234	0.0085	-0.3926	-0.0092	0.4251	0.1641	-0.0392	0.1056	-0.2391	0.6434
12	9.12	12.25	-0.8666	0.0078	-0.3834	-0.0090	0.4424	0.2016	-0.0397	0.1184	-0.1969	0.5872
13	9.09	11.44	-0.7872	0.0062	-0.3723	-0.0079	0.4729	0.2630	-0.0383	0.1195	-0.1458	0.4545
14	9.09	10.70	-0.7416	0.0048	-0.3576	-0.0065	0.4814	0.2740	-0.0375	0.1304	-0.1370	0.4759
15	9.08	9.85	-0.6870	0.0033	-0.3397	-0.0048	0.4945	0.3036	-0.0355	0.1418	-0.1170	0.4669
16	9.07	9.12	-0.6684	0.0014	-0.3133	-0.0022	0.4687	0.3045	-0.0342	0.1546	-0.1124	0.5075
17	9.06	8.25	-0.5815	-0.0011	-0.2953	0.0019	0.5079	0.3531	-0.0312	0.1601	-0.0883	0.4533
18	9.06	7.52	-0.5319	-0.0028	-0.2699	0.0054	0.5075	0.3914	-0.0288	0.1620	-0.0732	0.4139
19	9.03	6.76	-0.4584	-0.0051	-0.2474	0.0112	0.5398	0.4134	-0.0251	0.1674	-0.0607	0.4048
20	9.05	5.96	-0.3986	-0.0055	-0.2252	0.0138	0.5650	0.4275	-0.0228	0.1743	-0.0533	0.4076
21	9.03	5.07	-0.3615	-0.0071	-0.1980	0.0196	0.5575	0.4273	-0.0202	0.1853	-0.0474	0.4336
22	9.04	4.30	-0.2673	-0.0058	-0.1770	0.0214	0.6624	0.4650	-0.0164	0.1844	-0.0354	0.3966
23	9.04	3.49	-0.2539	-0.0060	-0.1401	0.0236	0.5518	0.4840	-0.0137	0.1870	-0.0284	0.3863
24	9.03	2.83	-0.1687	-0.0052	-0.1187	0.0308	0.7037	0.5099	-0.0127	0.1917	-0.0249	0.3760
25	9.01	2.00	-0.1023	-0.0051	-0.0982	0.0498	0.9598	0.4968	-0.0115	0.2026	-0.0232	0.4079
26	9.01	1.27	-0.0588	-0.0047	-0.0701	0.0799	1.1921	0.5323	-0.0106	0.2072	-0.0199	0.3892
27	9.03	0.46	-0.0223	-0.0047	-0.0414	0.2107	1.8579	0.5637	-0.0095	0.2115	-0.0169	0.3753
28	9.03	-0.20	0.0067	-0.0041	-0.0098	-0.6193	-1.4578	0.6033	-0.0079	0.2173	-0.0132	0.3602
29	9.02	-1.03	0.1148	-0.0036	-0.0036	-0.0318	-0.0318	0.5963	-0.0083	0.2210	-0.0139	0.3706
30	9.03	-1.84	0.1412	-0.0028	0.0256	-0.0202	0.1017	0.6257	-0.0084	0.2254	-0.0134	0.3602
31	9.03	-2.64	0.1697	-0.0022	0.0571	-0.0133	0.3368	0.6410	-0.0085	0.2336	-0.0133	0.3647
32	9.03	-3.41	0.2260	-0.0004	0.0786	-0.0018	0.3478	0.6396	-0.0085	0.2399	-0.0133	0.3751
33	9.02	-4.27	0.2909	0.0001	0.1080	0.0005	0.3714	0.6750	-0.0081	0.2361	-0.0121	0.3498
34	9.04	-5.01	0.3236	0.0024	0.1328	0.0076	0.4104	0.6956	-0.0083	0.2350	-0.0119	0.3378
35	9.04	-5.76	0.4048	0.0030	0.1606	0.0075	0.3967	0.7042	-0.0083	0.2383	-0.0118	0.3385
36	9.04	-6.51	0.4625	0.0035	0.1826	0.0076	0.3948	0.6443	-0.0081	0.2558	-0.0126	0.3970
37	9.05	-7.34	0.5480	0.0042	0.2077	0.0077	0.3786	0.7057	-0.0084	0.2504	-0.0119	0.3549
38	9.05	-8.13	0.6178	0.0045	0.2266	0.0074	0.3667	0.6865	-0.0084	0.2535	-0.0122	0.3693
39	9.07	-8.94	0.6667	0.0042	0.2581	0.0065	0.3991	0.7059	-0.0087	0.2572	-0.0124	0.3644
40	9.05	-9.72	0.7469	0.0032	0.2685	0.0043	0.3595	0.7129	-0.0087	0.2563	-0.0123	0.3596
41	9.08	-10.49	0.7959	0.0021	0.2923	0.0027	0.3673	0.7396	-0.0088	0.2593	-0.0119	0.3507
42	9.08	-11.21	0.8051	0.0013	0.3199	0.0017	0.3974	0.7640	-0.0088	0.2616	-0.0116	0.3424
43	9.08	-11.99	0.8712	-0.0007	0.3275	-0.0008	0.3759	0.7350	-0.0087	0.2709	-0.0118	0.3686
44	9.08	-12.73	0.9066	-0.0015	0.3512	-0.0017	0.3674	0.7623	-0.0087	0.2632	-0.0115	0.3453
45	9.09	-13.51	0.9812	-0.0013	0.3617	-0.0013	0.3686	0.7378	-0.0085	0.2696	-0.0115	0.3655
46	9.09	-14.39	1.0318	-0.0014	0.3764	-0.0014	0.3648	0.7254	-0.0084	0.2750	-0.0130	0.3791

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.83	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.11	-15.20	1.0780	-0.0012	0.3880	-0.0012	0.3599	0.7681	-0.0093	0.2729	-0.0121	0.3553
48	9.12	-15.99	1.1380	-0.0001	0.3957	-0.0001	0.3477	0.7913	-0.0080	0.2718	-0.0101	0.3434
49	9.10	-16.83	1.1617	0.0009	0.4035	0.0008	0.3473	0.7671	-0.0061	0.2761	-0.0080	0.3599
50	9.13	-17.58	1.1953	0.0038	0.4127	0.0032	0.3453	0.7555	-0.0071	0.2794	-0.0095	0.3699
51	9.14	-18.51	1.2372	0.0040	0.4190	0.0033	0.3387	0.7512	-0.0065	0.2829	-0.0087	0.3766
52	9.12	-19.30	1.2439	0.0054	0.4294	0.0043	0.3452	0.7447	-0.0061	0.2852	-0.0083	0.3830
53	9.17	-20.11	1.2927	0.0078	0.4291	0.0060	0.3320	0.7885	-0.0044	0.2766	-0.0056	0.3508

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	184	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAP	XCP		
1	12.24	19.63	2.1625	-2.7356	-3.8562	6.1416	-0.1710	0.2572	-1.2650		
2	12.25	19.31	2.1362	-2.6138	-4.0044	6.2510	-0.1470	0.2427	-1.2235		
3	12.21	18.52	2.1371	-2.7700	-3.8031	6.1002	-0.1400	0.2565	-1.2961		
4	12.23	17.76	2.1833	-2.6277	-3.8194	5.9081	-0.1480	0.2402	-1.2035		
5	12.23	16.91	2.1602	-2.8453	-3.6869	5.8156	-0.1300	0.2582	-1.3171		
6	12.20	16.14	2.1603	-2.9425	-3.5703	5.8564	-0.1120	0.2309	-1.3620		
7	12.20	15.42	2.1792	-3.1759	-3.2924	5.6682	-0.0750	0.2321	-1.4574		
8	12.17	14.67	2.1605	-3.3787	-3.0564	5.4558	-0.0290	0.2219	-1.5638		
9	12.15	13.87	2.1633	-3.6026	-2.8711	5.2144	-0.0200	0.2254	-1.6653		
10	12.13	13.14	2.1192	-3.8638	-2.7426	5.1765	0.0260	0.2331	-1.7289		
11	12.14	12.38	2.1660	-3.9873	-2.5954	4.8833	0.0220	0.2414	-1.8408		
12	12.11	11.65	2.1248	-4.0006	-2.3898	4.7005	0.0480	0.2522	-1.8828		
13	12.11	10.85	2.2290	-4.1845	-2.2132	4.3453	0.0380	0.2534	-1.8773		
14	12.08	10.09	2.1665	-4.3350	-1.9513	4.0337	0.0440	0.2341	-2.0009		
15	12.09	9.30	2.1694	-4.3510	-1.8716	3.7380	0.0600	0.2485	-2.0056		
16	12.08	8.49	2.1855	-4.4605	-1.7518	3.4214	0.0690	0.2435	-2.0410		
17	12.07	7.67	2.1686	-4.5939	-1.5397	3.0985	0.0690	0.2397	-2.1183		
18	12.05	6.88	2.1580	-4.5780	-1.3229	2.7760	0.0600	0.2536	-2.1214		
19	12.06	6.13	2.2021	-4.7387	-1.1960	2.2474	0.0730	0.2503	-2.1519		
20	12.05	5.23	2.1848	-4.7825	-1.0405	1.8656	0.0610	0.2588	-2.1890		
21	12.05	4.49	2.2632	-4.9962	-0.8060	1.5165	0.0560	0.2551	-2.2076		
22	12.03	3.68	2.2432	-5.0092	-0.7008	1.2531	0.0460	0.2491	-2.2331		
23	12.05	2.97	2.2204	-4.9523	-0.5885	0.9545	0.0400	0.2594	-2.2304		
24	12.04	2.17	2.1582	-5.0082	-0.4033	0.6777	0.0330	0.2675	-2.2783		
25	12.00	1.40	2.2261	-5.1333	-0.3550	0.5439	0.0400	0.2587	-2.3059		
26	12.02	0.62	2.2370	-5.1185	-0.2374	0.3833	0.0200	0.2586	-2.2881		
27	12.01	-0.09	2.2234	-5.1165	-0.0806	0.2008	0.0150	0.2773	-2.3012		
28	12.03	-0.87	2.2238	-5.1181	-0.0220	0.2358	0.0150	0.2827	-2.3015		
29	12.03	-1.65	2.2731	-5.1081	0.0729	0.0195	0.0150	0.2687	-2.2472		
30	12.04	-2.47	2.2373	-5.0500	0.1766	-0.0912	0.0020	0.2792	-2.2572		
31	12.05	-3.27	2.2323	-5.0270	0.3304	-0.3455	0.0200	0.2700	-2.2519		
32	12.04	-4.11	2.1965	-5.0399	0.4447	-0.5806	0.0070	0.2657	-2.2945		
33	12.01	-4.86	2.1881	-4.9781	0.5982	-0.8765	-0.0090	0.2684	-2.2751		
34	12.03	-5.60	2.2108	-4.9539	0.6493	-1.1026	-0.0270	0.2704	-2.2408		
35	12.04	-6.35	2.2164	-4.9267	0.8514	-1.5309	-0.0310	0.2758	-2.2228		
36	12.04	-7.17	2.1468	-4.7773	1.1134	-1.9386	-0.0780	0.2756	-2.2253		
37	12.03	-7.95	2.1821	-4.7357	1.2478	-2.2009	-0.0110	0.2666	-2.1721		
38	12.03	-8.79	2.1628	-4.6277	1.3146	-2.5554	-0.0250	0.2708	-2.1397		
39	12.05	-9.55	2.1742	-4.4967	1.5279	-3.1249	-0.0160	0.2852	-2.0682		
40	12.05	-10.31	2.1700	-4.4650	1.7185	-3.4017	-0.0130	0.2777	-2.0500		
41	12.08	-11.06	2.1618	-4.3484	1.9064	-3.7459	-0.0070	0.2862	-2.0114		
42	12.10	-11.83	2.1824	-4.1832	1.9891	-4.0596	0.0130	0.2773	-1.9168		
43	12.10	-12.59	2.1505	-4.0006	2.1439	-4.4073	0.0260	0.2738	-1.8603		
44	12.12	-13.39	2.1685	-3.9878	2.3521	-4.5808	0.0670	0.2789	-1.8370		
45	12.12	-14.21	2.1840	-3.8425	2.5650	-4.8658	0.0860	0.2710	-1.7594		
46	12.12	-15.07	2.2434	-3.7957	2.6714	-5.0947	0.1330	0.2682	-1.6919		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART	PACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
	6	184	1.10	1.7	0.0	02M0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	12.14	-15.82	2.2670	-3.3107	2.8872	-5.2380	0.1680	0.2846	-1.6810			
48	12.14	-16.69	2.2514	-3.4529	3.1254	-5.5594	0.1740	0.2750	-1.5337			
49	12.16	-17.45	2.1768	-3.3895	3.3043	-5.8368	0.1670	0.2547	-1.5571			
50	12.15	-18.33	2.1082	-3.0385	3.5039	-6.0514	0.1560	0.2579	-1.4413			
51	12.18	-19.16	2.1754	-2.9896	3.6624	-6.0563	0.1970	0.2415	-1.3743			
52	12.20	-19.89	2.1425	-2.8875	3.9014	-6.1678	0.2140	0.2421	-1.3477			
53	12.18	-20.26	2.1145	-2.7964	3.9696	-6.2743	0.2250	0.2281	-1.3225			

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	184	1.10 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CHI2	CBI2	XCPF2	YCPF2
1	12.24	19.63	-0.7181	0.0333	-0.2383	-0.0464	0.3318	0.5747	0.0335	0.0454	0.0583	0.0790
2	12.25	19.31	-0.6582	0.0369	-0.2300	-0.0561	0.3495	0.5789	0.0333	0.0449	0.0576	0.0776
3	12.21	18.52	-0.6251	0.0397	-0.2190	-0.0636	0.3503	0.5525	0.0330	0.0476	0.0598	0.0862
4	12.23	17.76	-0.6039	0.0426	-0.2128	-0.0706	0.3524	0.5539	0.0328	0.0478	0.0593	0.0863
5	12.23	16.91	-0.5492	0.0432	-0.2171	-0.0787	0.3953	0.5593	0.0329	0.0467	0.0589	0.0835
6	12.20	16.14	-0.5694	0.0417	-0.1973	-0.0733	0.3466	0.5770	0.0325	0.0419	0.0566	0.0726
7	12.20	15.42	-0.5092	0.0406	-0.1845	-0.0798	0.3631	0.5467	0.0326	0.0458	0.0596	0.0838
8	12.17	14.67	-0.4794	0.0402	-0.1826	-0.0839	0.3810	0.5501	0.0327	0.0389	0.0595	0.0708
9	12.15	13.87	-0.4579	0.0405	-0.1767	-0.0885	0.3858	0.5297	0.0327	0.0414	0.0618	0.0782
10	12.13	13.14	-0.4031	0.0410	-0.1682	-0.1017	0.4173	0.5207	0.0327	0.0351	0.0628	0.0675
11	12.14	12.38	-0.4110	0.0423	-0.1616	-0.1029	0.3916	0.4997	0.0327	0.0379	0.0655	0.0759
12	12.11	11.65	-0.3757	0.0420	-0.1556	-0.1117	0.4141	0.4858	0.0328	0.0312	0.0675	0.0642
13	12.11	10.85	-0.3412	0.0415	-0.1460	-0.1216	0.4274	0.4989	0.0329	0.0297	0.0660	0.0595
14	12.08	10.09	-0.3551	0.0414	-0.1337	-0.1167	0.3766	0.4743	0.0330	0.0270	0.0695	0.0569
15	12.09	9.30	-0.2529	0.0412	-0.1370	-0.1629	0.5420	0.4638	0.0332	0.0216	0.0717	0.0465
16	12.08	8.49	-0.2444	0.0401	-0.1161	-0.1643	0.4752	0.4517	0.0335	0.0165	0.0741	0.0366
17	12.07	7.67	-0.1842	0.0406	-0.1131	-0.2204	0.6139	0.4525	0.0333	0.0160	0.0737	0.0354
18	12.05	6.88	-0.1704	0.0401	-0.1036	-0.2353	0.6079	0.4414	0.0342	0.0108	0.0774	0.0245
19	12.06	6.13	-0.1080	0.0391	-0.0813	-0.3620	0.7527	0.4429	0.0338	0.0066	0.0763	0.0149
20	12.05	5.23	-0.1225	0.0409	-0.0712	-0.3342	0.5814	0.4163	0.0335	0.0065	0.0806	0.0157
21	12.05	4.49	-0.0586	0.0452	-0.0554	-0.7720	0.9458	0.4241	0.0338	0.0067	0.0797	0.0159
22	12.03	3.68	0.0298	0.0471	-0.0642	1.5803	-2.1534	0.3942	0.0338	0.0021	0.0857	0.0053
23	12.05	2.97	0.0265	0.0452	-0.0477	1.7072	-1.7969	0.3722	0.0340	-0.0023	0.0913	-0.0063
24	12.04	2.17	0.0259	0.0356	-0.0353	1.3743	-1.3618	0.3648	0.0347	-0.0128	0.0939	-0.0347
25	12.00	1.40	0.0249	0.0250	-0.0217	1.0658	-0.8716	0.3333	0.0345	-0.0123	0.1036	-0.0369
26	12.02	0.62	0.0102	0.0163	-0.0223	1.6627	-2.1864	0.3295	0.0349	-0.0218	0.1060	-0.0661
27	12.01	-0.09	-0.0191	0.0069	-0.0165	-0.3638	0.8620	0.3056	0.0350	-0.0272	0.1145	-0.0891
28	12.03	-0.87	-0.0026	-0.0048	-0.0085	1.8458	3.2563	0.2786	0.0349	-0.0340	0.1254	-0.1221
29	12.03	-1.65	-0.0163	-0.0140	0.0043	0.8587	-0.2619	0.2654	0.0349	-0.0426	0.1317	-0.1604
30	12.04	-2.47	-0.0414	-0.0227	0.0071	0.5482	-0.1716	-0.2176	0.0346	-0.0480	0.1592	-0.2206
31	12.05	-3.27	0.0371	-0.0357	0.0214	-0.9634	0.5758	0.2047	0.0340	-0.0558	0.1663	-0.2725
32	12.04	-4.11	0.0106	-0.0412	0.0353	-3.8861	3.3332	0.2044	0.0338	-0.0660	0.1656	-0.3229
33	12.01	-4.86	0.0375	-0.0413	0.0329	-1.1025	0.8772	0.1891	0.0337	-0.0711	0.1784	-0.3759
34	12.05	-5.60	0.0367	-0.0395	0.0393	-1.0761	1.0716	0.1856	0.0331	-0.0723	0.1783	-0.3898
35	12.04	-6.35	0.1020	-0.0363	0.0480	-0.3563	0.4705	0.1968	0.0321	-0.0821	0.1631	-0.4173
36	12.04	-7.17	0.1295	-0.0348	0.0659	-0.2691	0.5093	0.1461	0.0311	-0.0858	0.2132	-0.5874
37	12.03	-7.95	0.1511	-0.0354	0.0749	-0.2346	0.4960	0.1505	0.0305	-0.0934	0.2030	-0.6209
38	12.03	-8.79	0.1974	-0.0363	0.0895	-0.1839	0.4533	0.1312	0.0294	-0.0999	0.2244	-0.7613
39	12.05	-9.55	0.2651	-0.0369	0.1047	-0.1392	0.3951	0.1062	0.0284	-0.1111	0.2678	-1.0463
40	12.05	-10.31	0.2491	-0.0380	0.1204	-0.1525	0.4834	0.0829	0.0272	-0.1201	0.3280	-1.4484
41	12.08	-11.06	0.3211	-0.0381	0.1286	-0.1188	0.3986	0.0682	0.0265	-0.1278	0.3892	-1.8735
42	12.10	-11.83	0.3377	-0.0393	0.1425	-0.1165	0.4220	0.0464	0.0257	-0.1389	0.5549	-2.9944
43	12.10	-12.59	0.3863	-0.0402	0.1524	-0.1640	0.3946	-0.0028	0.0251	-0.1473	-8.9627	52.6189
44	12.12	-13.39	0.4362	-0.0404	0.1629	-0.0926	0.3733	-0.0795	0.0248	-0.1583	-0.3125	1.9911
45	12.12	-14.21	0.4854	-0.0407	0.1721	-0.0839	0.3546	-0.1092	0.0249	-0.1710	-0.2284	1.5658
46	12.12	-15.07	0.5355	-0.0399	0.1894	-0.0746	0.3338	-0.1429	0.0260	-0.1884	-0.1348	0.9771

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		184		1.10 1.7		0.0	B2W0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	12.14	-15.82	0.5471	-0.0410	0.2011	-0.0749	0.3076	-0.2571	0.0270	-0.1972	-0.1052	0.7673	
48	12.14	-16.69	0.5993	-0.0417	0.2006	-0.0696	0.3347	-0.2881	0.0266	-0.2068	-0.0925	0.7177	
49	12.16	-17.45	0.5789	-0.0398	0.2135	-0.0687	0.3695	-0.2710	0.0259	-0.2056	-0.0956	0.7587	
50	12.15	-18.33	0.6299	-0.0390	0.2153	-0.0620	0.3418	-0.2833	0.0269	-0.2109	-0.0951	0.7443	
51	12.18	-19.16	0.6782	-0.0355	0.2255	-0.0523	0.3331	-0.3224	0.0282	-0.2147	-0.0876	0.6659	
52	12.20	-19.89	0.7428	-0.0337	0.2334	-0.0454	0.3142	-0.3690	0.0295	-0.2215	-0.0799	0.6004	
53	12.18	-20.26	0.7574	-0.0319	0.2338	-0.0421	0.3087	-0.3690	0.0290	-0.2218	-0.0787	0.6012	

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION	
6	184	1.10	1.7	0.0	82WUF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	12.24	19.63	-1.2214	0.0054	-0.4528	-0.0045	0.3707	0.0217	-0.0297	0.0395	-1.3707	1.8217
2	12.25	19.31	-1.1909	0.0057	-0.4633	-0.0048	0.3890	0.0385	-0.0336	0.0444	-0.8739	1.1540
3	12.21	18.52	-1.1331	0.0056	-0.4645	-0.0050	0.4144	0.0195	-0.0366	0.0561	-1.8792	2.0768
4	12.23	17.76	-1.1707	0.0071	-0.4577	-0.0061	0.3909	0.0123	-0.0327	0.0397	-2.6581	3.2275
5	12.23	16.91	-1.1403	0.0070	-0.4553	-0.0061	0.3993	0.0516	-0.0329	0.0444	-0.6385	0.8603
6	12.20	16.14	-1.1291	0.0067	-0.4452	-0.0060	0.3443	0.0747	-0.0352	0.0503	-0.4718	0.6732
7	12.20	15.42	-1.1051	0.0073	-0.4351	-0.0066	0.3937	0.1071	-0.0382	0.0884	-0.3566	0.8253
8	12.17	14.67	-1.0515	0.0109	-0.4347	-0.0104	0.4134	0.1977	-0.0399	0.1070	-0.2020	0.5411
9	12.15	13.87	-1.0192	0.0104	-0.4255	-0.0102	0.4175	0.2614	-0.0419	0.1129	-0.1603	0.4319
10	12.13	13.14	-0.9727	0.0098	-0.4160	-0.0101	0.4277	0.2785	-0.0427	0.1413	-0.1532	0.5073
11	12.14	12.38	-0.9036	0.0087	-0.4020	-0.0097	0.4449	0.3281	-0.0422	0.1463	-0.1286	0.4460
12	12.11	11.65	-0.8702	0.0068	-0.3865	-0.0079	0.4445	0.3721	-0.0405	0.1591	-0.1088	0.4275
13	12.11	10.85	-0.8255	0.0059	-0.3681	-0.0071	0.4458	0.3787	-0.0387	0.1725	-0.1021	0.4554
14	12.08	10.09	-0.7471	0.0050	-0.3512	-0.0067	0.4701	0.3922	-0.0360	0.1759	-0.0918	0.4484
15	12.09	9.30	-0.7402	0.0026	-0.3280	-0.0036	0.4432	0.4701	-0.0331	0.1768	-0.0705	0.3762
16	12.08	8.49	-0.6170	0.0008	-0.3171	-0.0013	0.5139	0.5159	-0.0304	0.1850	-0.0590	0.3586
17	12.07	7.67	-0.5687	-0.0016	-0.2942	-0.0029	0.5173	0.5314	-0.0277	0.1928	-0.0521	0.3628
18	12.05	6.88	-0.5201	-0.0035	-0.2706	0.0067	0.5203	0.5238	-0.0244	0.2030	-0.0467	0.3876
19	12.06	6.13	-0.4545	-0.0085	-0.2370	0.0188	0.5215	0.5779	-0.0204	0.2118	-0.0354	0.3664
20	12.05	5.23	-0.3881	-0.0088	-0.2080	0.0228	0.5359	0.5783	-0.0192	0.2169	-0.0332	0.3751
21	12.05	4.49	-0.3206	-0.0078	-0.1860	0.0243	0.5802	0.6017	-0.0156	0.2233	-0.0259	0.3711
22	12.03	3.68	-0.2645	-0.0081	-0.1558	0.0308	0.5892	0.6085	-0.0135	0.2250	-0.0222	0.3697
23	12.05	2.97	-0.2173	-0.0085	-0.1252	0.0391	0.5762	0.6470	-0.0113	0.2268	-0.0175	0.3505
24	12.04	2.17	-0.1348	-0.0066	-0.0981	0.0493	0.7279	0.6759	-0.0104	0.2363	-0.0155	0.3496
25	12.00	1.40	-0.0412	-0.0060	-0.0805	0.1468	1.9546	0.7123	-0.0097	0.2487	-0.0136	0.3492
26	12.02	0.62	-0.0048	-0.0054	-0.0512	1.1248	10.6666	0.7144	-0.0099	0.2604	-0.0139	0.3646
27	12.01	-0.09	0.0598	-0.0049	-0.0274	-0.0819	-0.4578	0.7270	-0.0099	0.2699	-0.0137	0.3713
28	12.03	-0.87	0.0787	-0.0040	-0.0013	-0.0515	-0.0162	0.7967	-0.0099	0.2712	-0.0124	0.3404
29	12.03	-1.65	0.0989	-0.0029	0.0280	-0.0293	0.2837	0.8153	-0.0106	0.2798	-0.0131	0.3431
30	12.04	-2.47	0.1707	-0.0006	0.0557	-0.0038	0.3262	0.8359	-0.0110	0.2823	-0.0132	0.3378
31	12.05	-3.27	0.2128	-0.0000	0.0803	-0.0002	0.3774	0.8917	-0.0108	0.2838	-0.0122	0.3183
32	12.04	-4.11	0.2826	0.0022	0.1063	0.0080	0.3760	0.8647	-0.0115	0.2948	-0.0134	0.3410
33	12.01	-4.86	0.3606	0.0029	0.1311	0.0080	0.3557	0.8649	-0.0122	0.3014	-0.0141	0.3464
34	12.03	-5.60	0.3473	0.0053	0.1637	0.0135	0.4120	0.8652	-0.0130	0.3058	-0.0151	0.3534
35	12.04	-6.35	0.4804	0.0062	0.1867	0.0130	0.3083	0.9158	-0.0129	0.3076	-0.0141	0.3304
36	12.04	-7.17	0.5336	0.0061	0.2207	0.0115	0.4136	0.9018	-0.0132	0.3108	-0.0147	0.3438
37	12.01	-7.95	0.5419	0.0049	0.2431	0.0083	0.4107	0.9037	-0.0129	0.3106	-0.0143	0.3438
38	12.03	-8.74	0.6125	0.0031	0.2542	0.0050	0.3854	0.9287	-0.0118	0.3117	-0.0127	0.3356
39	12.03	-9.55	0.7493	0.0014	0.2888	0.0019	0.3854	0.9170	-0.0137	0.3205	-0.0149	0.3495
40	12.03	-10.31	0.8068	0.0005	0.3076	0.0006	0.3813	0.9463	-0.0137	0.3259	-0.0145	0.3444
41	12.08	-11.06	0.8696	-0.0002	0.3246	-0.0003	0.3732	0.9476	-0.0147	0.3264	-0.0155	0.3444
42	12.10	-11.83	0.9186	-0.0015	0.3436	-0.0016	0.3740	0.9658	-0.0143	0.3263	-0.0149	0.3379
43	12.10	-12.59	0.9600	-0.0017	0.3607	-0.0018	0.3757	0.9811	-0.0142	0.3259	-0.0145	0.3322
44	12.12	-13.39	1.0413	-0.0024	0.3898	-0.0023	0.3551	1.0043	-0.0135	0.3279	-0.0135	0.3264
45	12.12	-14.21	1.0552	-0.0021	0.3866	-0.0020	0.3664	1.0094	-0.0136	0.3312	-0.0135	0.3281
46	12.12	-15.07	1.1274	-0.0018	0.3949	-0.0016	0.3502	1.0424	-0.0135	0.3318	-0.0130	0.3183

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		184	1.10	1.7		0.0	B2MDF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	12.14	-15.82	1.1630	-0.0020	0.4030	-0.0017	0.3465	1.0215	-0.0136	0.3389	-0.0134	0.3317	
48	12.16	-16.69	1.1815	0.0027	0.4105	0.0023	0.3474	1.0410	-0.0141	0.3360	-0.0135	0.3227	
49	12.16	-17.45	1.2312	0.0034	0.4209	0.0028	0.3419	1.0403	-0.0135	0.3346	-0.0130	0.3217	
50	12.15	-18.33	1.2760	0.0042	0.4258	0.0033	0.3337	0.9911	-0.0117	0.3413	-0.0119	0.3443	
51	12.18	-19.16	1.2936	0.0064	0.4297	0.0049	0.3322	0.9793	-0.0117	0.3472	-0.0119	0.3546	
52	12.20	-19.89	1.3392	0.0079	0.4332	0.0059	0.3235	1.0274	-0.0108	0.3438	-0.0105	0.3347	
53	12.18	-20.26	1.3506	0.0106	0.4358	0.0078	0.3227	1.0081	-0.0117	0.3418	-0.0116	0.3391	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	Pr1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	185	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.38	19.62	2.8863	-3.1990	-4.1629	5.5150	-0.1150	0.2151	-1.1083	
2	15.35	19.62	2.8945	-3.2904	-4.1463	5.3978	-0.1130	0.2063	-1.1368	
3	15.38	19.24	2.9604	-3.2287	-4.0935	5.3919	-0.1140	0.2095	-1.0906	
4	15.37	18.45	2.9116	-3.3344	-4.1737	5.4512	-0.0940	0.2043	-1.1452	
5	15.35	17.69	2.9168	-3.4576	-3.9516	5.2662	-0.0810	0.2265	-1.1786	
6	15.35	16.83	2.9136	-3.5261	-3.8836	5.1661	-0.0660	0.2118	-1.1759	
7	15.32	16.11	2.8815	-3.7362	-3.6809	5.1523	-0.0420	0.2010	-1.2466	
8	15.29	15.36	2.8758	-3.9452	-3.4431	4.9924	0.0090	0.1987	-1.3718	
9	15.26	14.60	2.8722	-4.1671	-3.2288	4.8112	0.0470	0.2076	-1.4508	
10	15.25	13.84	2.7888	-4.3273	-3.1536	4.9550	0.0570	0.2165	-1.5517	
11	15.20	13.08	2.7078	-4.5439	-2.8899	4.7788	0.0920	0.2087	-1.6780	
12	15.18	12.36	2.7804	-4.8925	-2.4852	4.4341	0.0460	0.2061	-1.7596	
13	15.21	11.59	2.8449	-5.0328	-2.3632	4.0114	0.0560	0.2091	-1.7690	
14	15.18	10.77	2.8766	-5.1551	-2.2137	3.8621	0.1040	0.2109	-1.7921	
15	15.20	10.01	2.8666	-5.2401	-2.0128	3.4839	0.1150	0.2121	-1.8280	
16	15.15	9.20	2.8622	-5.4589	-1.8845	3.2522	0.1460	0.2293	-1.9072	
17	15.16	8.37	2.8447	-5.5854	-1.7511	3.0194	0.1430	0.2231	-1.9634	
18	15.12	7.58	2.8326	-5.6465	-1.5541	2.7037	0.1550	0.2306	-1.9934	
19	15.11	6.80	2.8584	-5.8526	-1.4185	2.4349	0.1730	0.2278	-2.0475	
20	15.09	6.02	2.8378	-5.9557	-1.1570	1.9488	0.1070	0.2141	-2.0987	
21	15.11	5.22	2.8910	-5.9632	-0.9606	1.5148	0.0860	0.2225	-2.0627	
22	15.09	4.36	2.8649	-6.0716	-0.7934	1.0958	0.0950	0.2221	-2.1193	
23	15.11	3.55	2.8954	-6.0803	-0.6422	0.7501	0.0850	0.2242	-2.1000	
24	15.08	2.81	2.8805	-6.1714	-0.4962	0.5557	0.0990	0.2443	-2.1425	
25	15.10	1.99	2.8721	-6.1227	-0.4486	0.3831	0.1030	0.2369	-2.1318	
26	15.10	1.31	2.8994	-6.1759	-0.3292	0.3878	0.0810	0.2411	-2.1300	
27	15.10	0.50	2.8571	-6.0957	-0.2808	0.2341	0.0460	0.2415	-2.1335	
28	15.12	-0.19	2.8994	-6.2219	-0.2042	0.3408	0.0350	0.2412	-2.1459	
29	15.10	-0.97	2.8736	-6.1848	-0.1175	0.3564	0.0210	0.2527	-2.1523	
30	15.09	-1.78	2.8904	-6.2443	-0.0803	0.3994	0.0220	0.2547	-2.1603	
31	15.12	-2.59	2.8813	-6.1976	0.1434	0.2522	-0.0200	0.2410	-2.1509	
32	15.10	-3.38	2.9133	-6.1994	0.1398	0.1243	0.0080	0.2466	-2.1279	
33	15.09	-4.18	2.8638	-6.2791	0.3075	-0.1345	-0.0120	0.2408	-2.1925	
34	15.09	-4.97	2.8693	-6.2108	0.4964	-0.4510	-0.0380	0.2496	-2.1645	
35	15.07	-5.73	2.8187	-6.1969	0.6585	-0.7819	-0.0860	0.2469	-2.1985	
36	15.10	-6.52	2.8522	-6.0708	0.9330	-1.2882	-0.1060	0.2533	-2.1285	
37	15.10	-7.30	2.8297	-5.8814	1.0469	-1.6256	-0.1280	0.2494	-2.1138	
38	15.11	-8.10	2.8162	-5.8415	1.2733	-2.0476	-0.1120	0.2474	-2.0742	
39	15.09	-8.88	2.8278	-5.7217	1.4886	-2.4910	-0.1340	0.2407	-2.0234	
40	15.14	-9.68	2.8243	-5.6118	1.6725	-2.8054	-0.1250	0.2403	-1.9461	
41	15.14	-10.49	2.8848	-5.5526	1.7391	-3.0796	-0.0650	0.2477	-1.9247	
42	15.14	-11.20	2.8226	-5.3655	1.9466	-3.4962	-0.0390	0.2558	-1.9009	
43	15.13	-11.96	2.8088	-5.2412	2.0223	-3.7082	-0.0420	0.2608	-1.8660	
44	15.18	-12.76	2.7998	-5.0196	2.3325	-4.0824	-0.0410	0.2557	-1.7928	
45	15.18	-13.46	2.8434	-4.7397	2.5918	-4.1814	-0.0340	0.2418	-1.6669	
46	15.18	-14.38	2.7207	-4.7199	2.7053	-4.6194	-0.0130	0.2480	-1.7348	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	1.05	1.10	1.7	0.0	B2WDF14	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	15.25	-15.18	2.8953	-4.2694	2.9184	-4.5007	0.0200	0.2382	-1.4746		
48	15.27	-15.97	2.8963	-4.1278	3.1032	-4.6614	0.0470	0.2458	-1.4252		
49	15.26	-16.78	2.9317	-4.1104	3.2633	-4.8875	0.0770	0.2447	-1.4020		
50	15.28	-17.62	2.9302	-3.7933	3.5093	-5.0031	0.1280	0.2478	-1.2946		
51	15.32	-18.44	2.9867	-3.6835	3.6598	-5.1727	0.1410	0.2385	-1.2333		
52	15.32	-19.31	2.9737	-3.4353	3.9585	-5.3059	0.1750	0.2440	-1.1552		
53	15.32	-20.04	2.9246	-3.2326	4.1856	-5.3448	0.2170	0.2534	-1.1053		
54	15.36	-20.28	3.0312	-3.1628	4.2161	-5.4017	0.2250	0.2372	-1.0634		
55	15.34	-20.20	2.9449	-3.1640	4.3454	-5.2167	0.2260	0.2478	-1.0726		

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	CEL3	DEL4	TRANSITION	
6	185	1.10	1.7	0.0	0.82	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.38	19.62	-0.4476	0.0482	-0.1806	-0.1078	0.4022	0.7249	0.0315	0.0953	0.0434	0.1314
2	15.35	19.62	-0.4759	0.0499	-0.1718	-0.1049	0.3609	0.7246	0.0318	0.0945	0.0439	0.1304
3	15.38	19.24	-0.4519	0.0486	-0.1768	-0.1075	0.3912	0.7281	0.0315	0.0955	0.0433	0.1312
4	15.37	18.45	-0.4199	0.0477	-0.1742	-0.1136	0.4149	0.7235	0.0316	0.0960	0.0437	0.1327
5	15.35	17.69	-0.4054	0.0473	-0.1686	-0.1167	0.4143	0.7131	0.0317	0.0961	0.0444	0.1348
6	15.35	16.83	-0.3921	0.0455	-0.1642	-0.1190	0.4298	0.7061	0.0316	0.0953	0.0447	0.1350
7	15.32	16.11	-0.3534	0.0447	-0.1525	-0.1264	0.4325	0.7014	0.0314	0.0943	0.0448	0.1345
8	15.29	15.36	-0.3112	0.0420	-0.1433	-0.1349	0.4604	0.6961	0.0317	0.0919	0.0455	0.1320
9	15.26	14.60	-0.2906	0.0421	-0.1275	-0.1448	0.4402	0.6939	0.0318	0.0924	0.0458	0.1332
10	15.25	13.84	-0.2772	0.0412	-0.1295	-0.1487	0.4670	0.6703	0.0320	0.0890	0.0477	0.1327
11	15.20	13.08	-0.2356	0.0415	-0.1245	-0.1761	0.5285	0.6514	0.0322	0.0860	0.0494	0.1320
12	15.18	12.36	-0.2558	0.0438	-0.1355	-0.1714	0.5299	0.6360	0.0320	0.0877	0.0504	0.1380
13	15.21	11.59	-0.2294	0.0422	-0.1211	-0.1841	0.5281	0.6424	0.0322	0.0850	0.0501	0.1323
14	15.18	10.77	-0.1534	0.0407	-0.1028	-0.2653	0.6702	0.6249	0.0322	0.0865	0.0515	0.1385
15	15.20	10.01	-0.1471	0.0381	-0.0861	-0.2593	0.5854	0.5995	0.0324	0.0808	0.0541	0.1347
16	15.15	9.20	-0.0467	0.0370	-0.0735	-0.3826	0.7644	0.6062	0.0327	0.0733	0.0540	0.1209
17	15.16	8.37	-0.0623	0.0345	-0.0643	-0.5537	1.0331	0.5863	0.0327	0.0696	0.0558	0.1187
18	15.12	7.58	-0.0346	0.0346	-0.0511	-1.0033	1.4777	0.5844	0.0328	0.0625	0.0561	0.1069
19	15.11	6.80	-0.0216	0.0355	-0.0297	-1.6432	1.3749	0.5846	0.0326	0.0583	0.0557	0.0998
20	15.09	6.02	-0.0118	0.0406	-0.0426	-3.4401	3.6129	0.5923	0.0328	0.0533	0.0554	0.0900
21	15.11	5.22	0.0327	0.0432	-0.0472	1.3209	-1.4435	0.5793	0.0329	0.0489	0.0568	0.0843
22	15.09	4.36	0.0429	0.0462	-0.0087	1.0779	-0.2029	0.5860	0.0328	0.0456	0.0560	0.0778
23	15.11	3.55	0.1255	0.0447	-0.0127	0.3451	-0.0984	0.5494	0.0332	0.0390	0.0604	0.0710
24	15.08	2.81	0.1258	0.0400	0.0050	0.3179	0.0399	0.5440	0.0334	0.0314	0.0614	0.0577
25	15.10	1.99	0.1551	0.0278	0.0127	0.1795	0.0818	0.5003	0.0339	0.0251	0.0677	0.0502
26	15.10	1.31	0.1007	0.0189	0.0135	0.1881	0.1376	0.4935	0.0344	0.0183	0.0697	0.0370
27	15.10	0.50	0.0650	0.0101	-0.0022	0.1561	-0.0345	0.4731	0.0346	0.0070	0.0731	0.0147
28	15.12	-0.19	-0.0068	0.0011	0.0024	-0.1691	-0.3580	0.4607	0.0350	0.0004	0.0759	0.0010
29	15.10	-0.97	-0.0415	-0.0043	0.0001	0.2241	-0.0017	0.4340	0.0352	-0.0089	0.0811	-0.0206
30	15.09	-1.78	-0.0544	-0.0237	0.0039	0.4356	-0.0712	0.4099	0.0350	-0.0176	0.0854	-0.0429
31	15.12	-2.59	-0.1153	-0.0285	-0.0136	0.2476	0.1181	0.3913	0.0354	-0.0266	0.0906	-0.0679
32	15.10	-3.38	-0.1081	-0.0424	0.0090	0.3926	-0.0831	0.3493	0.0344	-0.0347	0.0986	-0.0992
33	15.09	-4.18	-0.0966	-0.0487	0.0129	0.5046	-0.1337	0.3175	0.0343	-0.0385	0.1081	-0.1211
34	15.09	-4.97	-0.0865	-0.0487	0.0112	0.5635	-0.1297	0.3184	0.0341	-0.0451	0.1072	-0.1415
35	15.07	-5.73	-0.1214	-0.0459	0.0052	0.3784	-0.0452	0.3013	0.0343	-0.0458	0.1139	-0.1519
36	15.10	-6.52	-0.0545	-0.0394	0.0080	0.7228	-0.1475	0.2905	0.0332	-0.0498	0.1144	-0.1713
37	15.10	-7.30	-0.0498	-0.0305	0.0098	0.6123	-0.1969	0.2960	0.0325	-0.0546	0.1097	-0.1845
38	15.11	-8.10	0.0098	-0.0316	0.1248	-3.2290	3.0373	0.2652	0.0312	-0.0659	0.1176	-0.2486
39	15.09	-8.88	0.0440	-0.0286	0.0264	-0.6499	0.5991	0.2635	0.0304	-0.0717	0.1153	-0.2721
40	15.14	-9.68	0.0771	-0.0311	0.0446	-0.4039	0.5784	0.2521	0.0292	-0.0815	0.1158	-0.3233
41	15.14	-10.49	0.1499	-0.0383	0.0798	-0.2558	0.5327	0.2027	0.0274	-0.0963	0.1352	-0.4754
42	15.14	-11.20	0.2151	-0.0418	0.1043	-0.1945	0.4848	0.1764	0.0268	-0.1058	0.1515	-0.5984
43	15.13	-11.96	0.2211	-0.0417	0.1045	-0.1888	0.4725	0.1453	0.0260	-0.1135	0.1789	-0.7810
44	15.18	-12.76	0.1927	-0.0420	0.1157	-0.2182	0.6212	0.1218	0.0255	-0.1206	0.2093	-0.9903
45	15.18	-13.46	0.2477	-0.0425	0.1669	-0.1717	0.4317	0.0679	0.0246	-0.1369	0.3630	-2.0173
46	15.18	-14.38	0.3025	-0.0444	0.1324	-0.1469	0.4376	0.0455	0.0241	-0.1393	0.5296	-3.0624

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.85	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	15.25	-15.18	0.2801	-0.0430	0.1310	-0.1536	0.4678	-0.0534	0.0242	-0.1621	-0.4540	3.0355
48	15.27	-15.97	0.3522	-0.0446	0.1356	-0.1267	0.3849	-0.1281	0.0247	-0.1739	-0.1932	1.3574
49	15.26	-16.78	0.3374	-0.0459	0.1582	-0.1360	0.4689	-0.1640	0.0251	-0.1785	-0.1530	1.0887
50	15.28	-17.62	0.4026	-0.0473	0.1643	-0.1176	0.4080	-0.2561	0.0260	-0.2008	-0.1015	0.7842
51	15.32	-18.44	0.4452	-0.0499	0.1658	-0.1120	0.3723	-0.2874	0.0258	-0.2052	-0.0897	0.7137
52	15.32	-19.31	0.4700	-0.0516	0.1727	-0.1099	0.3675	-0.3518	0.0258	-0.2246	-0.0733	0.6384
53	15.32	-20.04	0.4987	-0.0505	0.1828	-0.1012	0.3665	-0.4097	0.0266	-0.2340	-0.0649	0.5711
54	15.36	-20.28	0.5165	-0.0528	0.1833	-0.1022	0.3549	-0.4173	0.0263	-0.2427	-0.0631	0.5817
55	15.34	-20.20	0.5059	-0.0518	0.1824	-0.1025	0.3605	-0.4113	0.0263	-0.2429	-0.0639	0.5906

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	185	1.10	1.7	0.0	BZWF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	15.38	19.62	-1.2069	0.0082	-0.4776	-0.0068	0.3958	0.0852	-0.0382	0.0508	-0.4489	0.5961
2	15.35	19.62	-1.2438	0.0069	-0.4716	-0.0056	0.3792	0.0901	-0.0388	0.0598	-0.4311	0.6640
3	15.38	19.24	-1.2235	0.0069	-0.4733	-0.0057	0.3868	0.0747	-0.0369	0.0514	-0.4946	0.6880
4	15.37	18.45	-1.2246	0.0062	-0.4675	-0.0051	0.3818	0.1032	-0.0379	0.0607	-0.3677	0.5881
5	15.35	17.69	-1.2153	0.0065	-0.4636	-0.0054	0.3802	0.0851	-0.0383	0.0813	-0.4500	0.9560
6	15.35	16.83	-1.1882	0.0042	-0.4655	-0.0069	0.3918	0.1152	-0.0377	0.0806	-0.3272	0.6995
7	15.32	16.11	-1.1596	0.0105	-0.4668	-0.0091	0.3974	0.1550	-0.0395	0.0976	-0.2548	0.6300
8	15.29	15.36	-1.1415	0.0120	-0.4570	-0.0105	0.4004	0.2219	-0.0425	0.1214	-0.1915	0.5473
9	15.26	14.60	-1.1016	0.0124	-0.4507	-0.0113	0.4091	0.2758	-0.0439	0.1365	-0.1593	0.4949
10	15.25	13.84	-1.0469	0.0118	-0.4391	-0.0113	0.4195	0.3497	-0.0461	0.1553	-0.1319	0.4441
11	15.20	13.08	-1.0235	0.0102	-0.4200	-0.0100	0.4104	0.4222	-0.0472	0.1669	-0.1119	0.3953
12	15.18	12.36	-0.9777	0.0107	-0.4057	-0.0110	0.4149	0.4035	-0.0420	0.1663	-0.1042	0.4120
13	15.21	11.59	-0.9088	0.0079	-0.3883	-0.0087	0.4273	0.4269	-0.0404	0.1821	-0.0946	0.4267
14	15.18	10.77	-0.8486	0.0067	-0.3602	-0.0079	0.4480	0.5295	-0.0380	0.1872	-0.0717	0.3536
15	15.20	10.01	-0.8090	0.0039	-0.3604	-0.0048	0.4456	0.5206	-0.0354	0.2097	-0.0681	0.4027
16	15.15	9.20	-0.7381	0.0029	-0.3468	-0.0039	0.4699	0.5946	-0.0325	0.2160	-0.0547	0.3633
17	15.16	8.37	-0.6610	0.0005	-0.3247	-0.0008	0.4913	0.6253	-0.0281	0.2242	-0.0450	0.3585
18	15.12	7.58	-0.6325	-0.0020	-0.3036	0.0032	0.4797	0.6557	-0.0251	0.2320	-0.0383	0.3538
19	15.11	6.80	-0.5454	-0.0041	-0.2775	0.0076	0.5088	0.6856	-0.0205	0.2481	-0.0299	0.3619
20	15.09	6.02	-0.4801	-0.0067	-0.2474	0.0140	0.5152	0.6948	-0.0181	0.2430	-0.0260	0.3498
21	15.11	5.22	-0.3785	-0.0064	-0.2212	0.0170	0.5844	0.7115	-0.0166	0.2430	-0.0233	0.3415
22	15.09	4.36	-0.3254	-0.0065	-0.1913	0.0201	0.5879	0.7057	-0.0126	0.2550	-0.0178	0.3614
23	15.11	3.55	-0.2854	-0.0092	-0.1543	0.0322	0.5406	0.7232	-0.0108	0.2599	-0.0150	0.3593
24	15.08	2.81	-0.2070	-0.0079	-0.1264	0.0384	0.6105	0.8003	-0.0090	0.2650	-0.0112	0.3311
25	15.10	1.99	-0.1013	-0.0072	-0.1065	0.0716	1.0558	0.8220	-0.0080	0.2769	-0.0099	0.3369
26	15.10	1.31	-0.0867	-0.0065	-0.0731	0.0755	0.8430	0.8707	-0.0073	0.2852	-0.0084	0.3276
27	15.10	0.50	-0.0505	-0.0047	-0.0415	0.0940	0.8223	0.9069	-0.0080	0.2844	-0.0089	0.3136
28	15.12	-0.19	0.0137	-0.0049	-0.0178	-0.3612	-1.3018	0.9336	-0.0084	0.3011	-0.0090	0.3225
29	15.10	-0.97	0.0801	-0.0040	0.0022	-0.0506	0.0273	0.9451	-0.0094	0.3176	-0.0100	0.3361
30	15.09	-1.78	0.1383	-0.0037	0.0186	-0.0271	0.1344	0.9973	-0.0111	0.3231	-0.0112	0.3240
31	15.12	-2.59	0.1709	-0.0015	0.0613	-0.0091	0.3590	1.0101	-0.0115	0.3257	-0.0114	0.3224
32	15.10	-3.38	0.2174	0.0000	0.0825	-0.0002	0.3797	1.0540	-0.0121	0.3349	-0.0115	0.3178
33	15.09	-4.18	0.2769	0.0023	0.1175	0.0085	0.4242	1.0643	-0.0130	0.3421	-0.0122	0.3215
34	15.09	-4.97	0.3782	0.0045	0.1403	0.0120	0.3710	1.1146	-0.0146	0.3414	-0.0131	0.3063
35	15.07	-5.73	0.4487	0.0041	0.1685	0.0091	0.3755	1.0836	-0.0155	0.3481	-0.0143	0.3212
36	15.10	-6.52	0.5287	0.0056	0.2060	0.0107	0.3896	1.0971	-0.0161	0.3499	-0.0147	0.3189
37	15.10	-7.30	0.5953	0.0060	0.2353	0.0101	0.3955	1.1070	-0.0165	0.3522	-0.0149	0.3181
38	15.11	-8.10	0.6730	0.0037	0.2617	0.0055	0.3889	1.1270	-0.0157	0.3523	-0.0139	0.3126
39	15.09	-8.88	0.7395	0.0036	0.2842	0.0049	0.3843	1.1264	-0.0163	0.3558	-0.0145	0.3159
40	15.14	-9.68	0.8060	0.0020	0.3048	0.0025	0.3702	1.1503	-0.0157	0.3575	-0.0137	0.3108
41	15.14	-10.49	0.8712	0.0005	0.3235	0.0006	0.3713	1.1629	-0.0157	0.3698	-0.0135	0.3180
42	15.14	-11.20	0.9551	-0.0001	0.3351	-0.0001	0.3508	1.1563	-0.0163	0.3694	-0.0141	0.3195
43	15.13	-11.96	0.9565	-0.0013	0.3608	-0.0014	0.3764	1.1913	-0.0173	0.3666	-0.0146	0.3077
44	15.18	-12.76	1.0657	-0.0022	0.3720	-0.0021	0.3491	1.2157	-0.0171	0.3672	-0.0141	0.3020
45	15.18	-13.46	1.1195	-0.0029	0.3901	-0.0026	0.3485	1.2241	-0.0178	0.3698	-0.0145	0.3021
46	15.18	-14.38	1.1435	-0.0032	0.4103	-0.0028	0.3588	1.2216	-0.0178	0.3744	-0.0146	0.3065

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	PACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	185	1.10	1.7	0.0	B2WUFL2	0.0	0	0	0	0	FIXED	
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.25	-15.18	1.1694	-0.0030	0.4198	-0.0026	0.3589	1.2257	-0.0185	0.3786	-0.0151	0.3089
48	15.27	-15.97	1.2497	-0.0025	0.4195	-0.0020	0.3360	1.2460	-0.0184	0.3787	-0.0148	0.3039
49	15.26	-16.78	1.2299	0.0014	0.4307	0.0012	0.3502	1.2361	-0.0182	0.3793	-0.0148	0.3068
50	15.28	-17.62	1.2058	0.0020	0.4356	0.0016	0.3388	1.2360	-0.0184	0.3818	-0.0149	0.3089
51	15.32	-18.44	1.3378	0.0034	0.4360	0.0025	0.3259	1.2314	-0.0182	0.3884	-0.0148	0.3154
52	15.32	-19.31	1.3377	0.0045	0.4486	0.0034	0.3354	1.2517	-0.0188	0.3858	-0.0151	0.3082
53	15.32	-20.04	1.3679	0.0107	0.4385	0.0079	0.3206	1.2662	-0.0188	0.3850	-0.0148	0.3041
54	15.36	-20.28	1.3741	0.0096	0.4484	0.0070	0.3263	1.2555	-0.0180	0.3896	-0.0143	0.3104
55	15.34	-20.20	1.3885	0.0106	0.4402	0.0077	0.3170	1.2510	-0.0189	0.3856	-0.0151	0.3083

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	18.6	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	18.50	19.61	3.7779	-3.8773	-4.3770	4.8200	-0.0380	0.1611	-1.0263	
2	18.46	19.33	3.7027	-3.9640	-4.3090	4.9128	-0.0480	0.1539	-1.0706	
3	18.45	18.52	3.7645	-3.9965	-4.2777	4.7710	-0.0290	0.1534	-1.0616	
4	18.46	17.79	3.7453	-4.1036	-4.0393	4.5431	-0.0300	0.1634	-1.0957	
5	18.43	16.99	3.7139	-4.3256	-3.9049	4.5960	-0.0010	0.1601	-1.1647	
6	18.41	16.15	3.6676	-4.3498	-3.8080	4.5773	0.0260	0.1721	-1.1860	
7	18.42	15.42	3.7071	-4.4881	-3.5560	4.2935	0.0730	0.1741	-1.2107	
8	18.39	14.64	3.6608	-4.7142	-3.3062	4.1827	0.1030	0.1828	-1.2677	
9	18.35	13.85	3.6653	-5.0255	-3.0471	4.0320	0.1270	0.1859	-1.3711	
10	18.33	13.08	3.6844	-5.2972	-2.8747	3.8626	0.1530	0.1716	-1.4358	
11	18.33	12.34	3.6764	-5.3660	-2.6788	3.6584	0.1640	0.1654	-1.4596	
12	18.32	11.55	3.6393	-5.5150	-2.5573	3.4332	0.1870	0.1771	-1.5154	
13	18.31	10.73	3.6618	-5.7465	-2.3230	3.1742	0.1930	0.1757	-1.5693	
14	18.28	10.02	3.5978	-5.9278	-2.0773	2.9303	0.2010	0.1915	-1.6476	
15	18.26	9.15	3.6172	-6.0240	-2.1156	2.8349	0.2100	0.1849	-1.6654	
16	18.19	8.49	3.4762	-6.4755	-1.7652	2.6532	0.1970	0.1903	-1.8628	
17	18.18	7.63	3.4810	-6.6112	-1.5494	2.4181	0.2040	0.1867	-1.8992	
18	18.18	6.84	3.4619	-6.8515	-1.3560	1.9464	0.1740	0.1695	-1.9791	
19	18.19	6.10	3.5716	-6.9360	-1.0298	1.3757	0.1440	0.1798	-1.9420	
20	18.18	5.19	3.6575	-6.8953	-0.9525	0.9965	0.1800	0.1907	-1.8852	
21	18.18	4.42	3.6152	-6.9561	-0.9065	0.8081	0.2010	0.1846	-1.9241	
22	18.19	3.65	3.6014	-7.0157	-0.6990	0.5787	0.1940	0.1966	-1.9480	
23	18.17	2.87	3.5905	-7.0235	-0.6909	0.4673	0.1790	0.2095	-1.9561	
24	18.17	2.13	3.5914	-7.1097	-0.5714	0.5210	0.1460	0.2172	-1.9796	
25	18.14	1.37	3.5807	-7.1477	-0.4396	0.3415	0.0880	0.2284	-1.9962	
26	18.13	0.60	3.5472	-7.2268	-0.2307	0.2639	0.0630	0.2373	-2.0373	
27	18.16	-0.13	3.5677	-7.1285	-0.2084	0.1977	0.0290	0.2354	-1.9981	
28	18.14	-0.98	3.5754	-7.1703	-0.1694	0.4761	0.0160	0.2483	-2.0054	
29	18.15	-1.76	3.6076	-7.1424	-0.1685	0.5178	-0.0090	0.2444	-1.9798	
30	18.10	-2.54	3.5552	-7.2100	0.0343	0.3739	-0.0260	0.2349	-2.0280	
31	18.13	-3.29	3.5486	-7.2288	0.1959	0.2637	-0.0690	0.2220	-2.0371	
32	18.12	-4.16	3.5659	-7.2310	0.2213	0.1122	-0.0660	0.2084	-2.0278	
33	18.14	-4.95	3.5896	-7.2042	0.3365	0.0199	-0.0880	0.2290	-2.0069	
34	18.10	-5.70	3.5102	-7.1750	0.6140	-0.4437	-0.1170	0.2194	-2.0440	
35	18.13	-6.51	3.5149	-7.1266	0.7520	-0.8038	-0.1330	0.2175	-2.0275	
36	18.11	-7.33	3.4856	-6.9656	0.9445	-1.2163	-0.1580	0.2390	-1.9984	
37	18.14	-8.10	3.4943	-6.8268	1.2665	-1.7152	-0.1930	0.2505	-1.9537	
38	18.17	-8.94	3.5054	-6.5774	1.6054	-2.2675	-0.1750	0.2294	-1.8763	
39	18.18	-9.70	3.4643	-6.3809	1.6852	-2.4782	-0.2030	0.2362	-1.8419	
40	18.17	-10.50	3.4077	-6.1685	1.8846	-3.0123	-0.1670	0.2456	-1.8102	
41	18.21	-11.19	3.5598	-5.8597	2.0147	-2.7956	-0.1500	0.2440	-1.6460	
42	18.26	-12.02	3.6199	-5.7038	2.1938	-3.0613	-0.1090	0.2500	-1.5757	
43	18.22	-12.80	3.5023	-5.6602	2.3430	-3.5382	-0.0880	0.2441	-1.6161	
44	18.27	-13.66	3.5808	-5.5311	2.5567	-3.8033	-0.0810	0.2390	-1.5446	
45	18.27	-14.48	3.5757	-5.2730	2.6464	-3.4919	-0.0410	0.2376	-1.4747	
46	18.32	-15.35	3.5860	-5.0254	2.9942	-4.1499	-0.0540	0.2349	-1.4014	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	186	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	18.35	-16.01	3.6698	-4.8098	3.1611	-4.1336	-0.0180	0.2155	-1.3106		
48	18.33	-16.83	3.6742	-4.7140	3.3887	-4.3152	0.0240	0.2080	-1.2830		
49	18.40	-17.63	3.7509	-4.3424	3.6623	-4.3463	0.0440	0.2120	-1.1577		
50	18.39	-18.58	3.7713	-4.2050	3.8353	-4.5745	0.0770	0.2060	-1.1150		
51	18.42	-19.40	3.7677	-4.1689	4.1356	-4.8249	0.0930	0.2065	-1.1065		
52	18.41	-20.13	3.7708	-4.0133	4.4235	-4.8401	0.1240	0.2062	-1.0643		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		186		1.10		1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	18.50	19.61	-0.2877	0.0490	-0.1554	-0.1704	0.5400	0.8888	0.0323	0.1265	0.0364	0.1423		
2	18.46	19.33	-0.3424	0.0461	-0.1447	-0.1347	0.4226	0.8767	0.0321	0.1256	0.0366	0.1432		
3	18.45	18.52	-0.2930	0.0478	-0.1453	-0.1631	0.4960	0.8904	0.0321	0.1225	0.0360	0.1376		
4	18.46	17.79	-0.2943	0.0464	-0.1425	-0.1578	0.4840	0.8802	0.0322	0.1222	0.0366	0.1389		
5	18.43	16.99	-0.3071	0.0437	-0.1273	-0.1422	0.4146	0.8923	0.0321	0.1195	0.0360	0.1339		
6	18.41	16.15	-0.2212	0.0447	-0.1261	-0.2023	0.5701	0.8757	0.0323	0.1191	0.0369	0.1360		
7	18.42	15.42	-0.1683	0.0416	-0.0950	-0.2474	0.5643	0.8569	0.0324	0.1192	0.0378	0.1391		
8	18.39	14.64	-0.1154	0.0430	-0.0886	-0.3709	0.7646	0.8401	0.0325	0.1199	0.0387	0.1427		
9	18.35	13.85	-0.0920	0.0420	-0.0748	-0.4564	0.8136	0.8421	0.0324	0.1141	0.0385	0.1355		
10	18.33	13.08	-0.0608	0.0385	-0.0666	-0.6331	1.0964	0.8242	0.0325	0.1132	0.0394	0.1373		
11	18.33	12.34	-0.0684	0.0320	-0.0501	-0.4685	0.7323	0.8043	0.0327	0.1115	0.0406	0.1387		
12	18.32	11.55	-0.0290	0.0296	-0.0358	-1.1858	1.4332	0.8142	0.0326	0.1049	0.0403	0.1289		
13	18.31	10.73	0.0066	0.0264	-0.0295	3.9993	-4.4698	0.7819	0.0330	0.1017	0.0422	0.1300		
14	18.28	10.02	0.0279	0.0266	-0.0185	0.5532	-0.6632	0.7755	0.0329	0.1016	0.0425	0.1310		
15	18.26	9.35	0.0579	0.0223	-0.0050	0.3859	-0.0865	0.7424	0.0332	0.1006	0.0448	0.1355		
16	18.19	8.49	0.0318	0.0309	-0.0304	0.9715	-1.1448	0.7332	0.0333	0.1015	0.0454	0.1385		
17	18.18	7.63	0.0653	0.0331	-0.0169	0.5068	-0.2594	0.7303	0.0335	0.0970	0.0459	0.1328		
18	18.18	6.84	0.0844	0.0405	-0.0227	0.4894	-0.2687	0.7397	0.0336	0.0897	0.0455	0.1213		
19	18.19	6.10	0.1099	0.0413	-0.0163	0.3762	-0.1481	0.7207	0.0339	0.0901	0.0471	0.1250		
20	18.18	5.19	0.1676	0.0330	-0.0270	0.1969	0.1614	0.6901	0.0331	0.0897	0.0480	0.1299		
21	18.18	4.42	0.2409	0.0246	0.0565	0.1023	0.2344	0.6697	0.0334	0.0828	0.0499	0.1236		
22	18.19	3.65	0.2267	0.0249	0.0626	0.1098	0.2763	0.6434	0.0331	0.0806	0.0515	0.1253		
23	18.17	2.87	0.2181	0.0227	0.0515	0.1043	0.2360	0.6337	0.0334	0.0708	0.0528	0.1117		
24	18.17	2.13	0.1325	0.0111	0.0549	0.0841	0.4147	0.5984	0.0339	0.0632	0.0567	0.1056		
25	18.14	1.37	0.1136	0.0113	0.0275	0.0995	0.2425	0.6259	0.0340	0.0445	0.0544	0.0711		
26	18.13	0.60	0.0874	0.0138	0.0090	0.1584	0.1032	0.6011	0.0342	0.0436	0.0570	0.0726		
27	18.16	-0.13	-0.0275	-0.0029	0.0019	0.1054	-0.0704	0.5543	0.0347	0.0299	0.0626	0.0540		
28	18.14	-0.98	-0.0609	-0.0176	-0.0112	0.2175	0.1379	0.5318	0.0348	0.0154	0.0654	0.0290		
29	18.15	-1.76	-0.1106	-0.0186	-0.0310	0.1686	0.2808	0.5283	0.0347	0.0078	0.0658	0.0147		
30	18.10	-2.54	-0.1325	-0.0407	-0.0205	0.3075	0.1581	0.4795	0.0347	-0.0042	0.0723	-0.0087		
31	18.13	-3.29	-0.2036	-0.0320	-0.0413	0.1571	0.2031	0.4755	0.0352	-0.0055	0.0740	-0.0116		
32	18.12	-4.16	-0.2107	-0.0494	-0.0214	0.2347	0.1016	0.4284	0.0351	-0.0171	0.0820	-0.0399		
33	18.14	-4.95	-0.2294	-0.0484	-0.0268	0.2109	0.1170	0.4126	0.0349	-0.0222	0.0847	-0.0537		
34	18.10	-5.70	-0.1961	-0.0473	-0.0253	0.2414	0.1292	0.3919	0.0345	-0.0279	0.0880	-0.0711		
35	18.13	-6.51	-0.1979	-0.0460	-0.0158	0.2327	0.0801	0.3690	0.0341	-0.0310	0.0924	-0.0840		
36	18.11	-7.33	-0.1504	-0.0416	-0.0105	0.2026	0.0662	0.3649	0.0328	-0.0388	0.0900	-0.1062		
37	18.14	-8.10	-0.1809	-0.0354	-0.0067	0.1959	0.0369	0.3553	0.0319	-0.0399	0.0899	-0.1122		
38	18.17	-8.94	-0.0937	-0.0276	-0.0056	0.2950	0.0600	0.3260	0.0305	-0.0522	0.0858	-0.1467		
39	18.18	-9.70	-0.0455	-0.0208	-0.0065	0.4582	0.1420	0.3219	0.0288	-0.0591	0.0894	-0.1836		
40	18.17	-10.50	0.0248	-0.0288	0.0228	-1.1611	0.9179	0.2874	0.0280	-0.0729	0.0975	-0.2536		
41	18.21	-11.19	0.0113	-0.0276	0.0243	-2.4465	2.1474	0.2588	0.0267	-0.0937	0.1033	-0.3623		
42	18.26	-12.02	0.0488	-0.0322	0.0522	-0.6597	1.0689	0.1923	0.0261	-0.0994	0.1357	-0.5170		
43	18.22	-12.80	0.1369	-0.0407	0.0723	-0.2576	0.5282	0.1462	0.0254	-0.1068	0.1740	-0.7304		
44	18.27	-13.66	0.1600	-0.0401	0.0706	-0.2509	0.4413	0.1641	0.0248	-0.1193	0.1511	-0.7271		
45	18.27	-14.48	0.2088	-0.0455	0.0880	-0.2181	0.4213	0.0947	0.0240	-0.1328	0.2539	-1.4028		
46	18.32	-15.35	0.1612	-0.0431	0.0991	-0.2676	0.6149	0.0825	0.0235	-0.1403	0.2848	-1.7007		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		1.0	1.7	0.0	0.2	0.0	0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
47	18.35	-16.01	0.2308	-0.0432	0.0925	-0.1874	0.4008	0.0106	0.0234	-0.1542	2.2072	-14.5536		
48	18.33	-16.83	0.2630	-0.0454	0.1198	-0.1728	0.4556	-0.0497	0.0237	-0.1647	-0.4768	3.3151		
49	18.40	-17.63	0.2805	-0.0435	0.1034	-0.1552	0.3685	-0.1342	0.0243	-0.1793	-0.1810	1.3362		
50	18.39	-18.58	0.3268	-0.0454	0.1243	-0.1390	0.3803	-0.1514	0.0248	-0.1843	-0.1638	1.2176		
51	18.42	-19.40	0.3579	-0.0474	0.1384	-0.1324	0.3866	-0.1839	0.0256	-0.1909	-0.1395	1.0385		
52	18.41	-20.13	0.3818	-0.0481	0.1493	-0.1261	0.3911	-0.2175	0.0262	-0.2013	-0.1204	0.9259		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	18.6	1.10	1.7	0.0	0.2MOLF2	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	18.50	19.51	-1.2676	0.0114	-0.4533	-0.0090	0.3891	0.1739	-0.0432	0.0961	-0.2484	0.5529
2	18.46	19.33	-1.2565	0.0108	-0.4500	-0.0086	0.3900	0.1769	-0.0411	0.0999	-0.2300	0.5585
3	18.45	18.52	-1.2596	0.0115	-0.4883	-0.0092	0.3877	0.1688	-0.0427	0.1025	-0.2532	0.6075
4	18.46	17.79	-1.2529	0.0094	-0.4752	-0.0075	0.3793	0.2244	-0.0438	0.1130	-0.1952	0.5034
5	18.43	16.99	-1.2061	0.0076	-0.4700	-0.0063	0.3897	0.2584	-0.0445	0.1261	-0.1722	0.4680
6	18.41	16.15	-1.1782	0.0120	-0.4782	-0.0102	0.4059	0.2814	-0.0466	0.1307	-0.1657	0.4643
7	18.42	15.42	-1.1925	0.0143	-0.4661	-0.0120	0.3909	0.3380	-0.0484	0.1393	-0.1431	0.4122
8	18.39	14.64	-1.1293	0.0150	-0.4610	-0.0124	0.4082	0.3696	-0.0488	0.1466	-0.1320	0.3971
9	18.35	13.85	-1.0708	0.0136	-0.4490	-0.0127	0.4193	0.4096	-0.0476	0.1616	-0.1162	0.3945
10	18.33	13.08	-1.0455	0.0119	-0.4326	-0.0114	0.4137	0.4667	-0.0453	0.1861	-0.0971	0.3988
11	18.33	12.34	-0.9600	0.0104	-0.4238	-0.0108	0.4414	0.5057	-0.0433	0.1944	-0.0857	0.3844
12	18.32	11.55	-0.9148	0.0097	-0.4148	-0.0107	0.4534	0.5435	-0.0420	0.2100	-0.0772	0.3864
13	18.31	10.73	-0.8793	0.0074	-0.3890	-0.0085	0.4424	0.5976	-0.0383	0.2181	-0.0641	0.3650
14	18.28	10.02	-0.8228	0.0049	-0.3727	-0.0060	0.4529	0.6350	-0.0368	0.2252	-0.0580	0.3546
15	18.26	9.35	-0.7673	0.0034	-0.3607	-0.0044	0.4702	0.6800	-0.0335	0.2370	-0.0492	0.3485
16	18.19	8.69	-0.6954	0.0003	-0.3378	-0.0005	0.4858	0.7810	-0.0274	0.2406	-0.0351	0.3081
17	18.18	7.63	-0.6322	-0.0029	-0.3149	-0.0046	0.4982	0.7431	-0.0219	0.2680	-0.0295	0.3607
18	18.18	6.84	-0.5625	-0.0058	-0.2865	0.0103	0.5101	0.8108	-0.0187	0.2560	-0.0231	0.3157
19	18.19	6.10	-0.5090	-0.0074	-0.2510	0.0146	0.4731	0.8010	-0.0192	0.2633	-0.0240	0.3287
20	18.18	5.19	-0.4327	-0.0072	-0.2243	0.0166	0.5183	0.8078	-0.0155	0.2744	-0.0192	0.3397
21	18.18	4.42	-0.3748	-0.0067	-0.1992	0.0179	0.5314	0.8696	-0.0101	0.2795	-0.0117	0.3214
22	18.19	3.65	-0.2923	-0.0076	-0.1670	0.0260	0.5712	0.8913	-0.0092	0.2885	-0.0103	0.3237
23	18.17	2.87	-0.2668	-0.0055	-0.1400	0.0206	0.5247	0.9261	-0.0085	0.2980	-0.0092	0.3218
24	18.17	2.13	-0.1320	-0.0071	-0.1108	0.0542	0.8393	0.9668	-0.0085	0.3156	-0.0088	0.3264
25	18.14	1.37	-0.0942	-0.0065	-0.0770	0.0690	0.8173	1.0085	-0.0091	0.3204	-0.0090	0.3177
26	18.13	0.60	-0.0436	-0.0048	-0.0371	0.1101	0.8516	1.0290	-0.0088	0.3244	-0.0085	0.3152
27	18.16	-0.13	0.0484	-0.0054	-0.0237	-0.1116	-0.4891	1.0753	-0.0094	0.3336	-0.0087	0.3102
28	18.14	-0.98	0.0934	-0.0040	0.0013	-0.0428	0.0142	1.1098	-0.0110	0.3482	-0.0100	0.3138
29	18.15	-1.76	0.1153	-0.0036	0.0324	-0.0312	0.2312	1.1235	-0.0113	0.3559	-0.0100	0.3162
30	18.13	-2.54	0.1806	-0.0025	0.0665	-0.0141	0.3681	1.1483	-0.0120	0.3610	-0.0101	0.3013
31	18.13	-3.29	0.2480	-0.0021	0.0959	-0.0085	0.3068	1.2003	-0.0120	0.3627	-0.0100	0.3021
32	18.12	-4.16	0.3223	-0.0009	0.1276	-0.0029	0.3959	1.2251	-0.0122	0.3736	-0.0100	0.3066
33	18.14	-4.95	0.3544	0.0017	0.1598	0.0049	0.4908	1.2260	-0.0140	0.3860	-0.0115	0.3149
34	18.10	-5.70	0.4498	0.0026	0.1871	0.0053	0.3744	1.2561	-0.0141	0.3827	-0.0113	0.3067
35	18.13	-6.51	0.5366	0.0055	0.2149	0.0103	0.4005	1.2791	-0.0138	0.3804	-0.0108	0.2974
36	18.11	-7.33	0.6333	0.0055	0.2471	0.0087	0.3902	1.2581	-0.0136	0.3899	-0.0108	0.3099
37	18.14	-8.10	0.7474	0.0055	0.2704	0.0074	0.3618	1.2883	-0.0141	0.3903	-0.0110	0.3029
38	18.17	-8.94	0.8121	0.0041	0.3020	0.0050	0.3719	1.3261	-0.0134	0.3829	-0.0101	0.2887
39	18.18	-9.70	0.8101	0.0033	0.3296	0.0041	0.4069	1.2886	-0.0126	0.3854	-0.0098	0.2991
40	18.17	-10.50	0.9372	0.0018	0.3401	0.0019	0.3629	1.2931	-0.0134	0.3917	-0.0104	0.3029
41	18.21	-11.19	0.9582	-0.0017	0.3600	-0.0018	0.3757	1.3197	-0.0137	0.3974	-0.0100	0.2974
42	18.26	-12.02	1.0408	-0.0040	0.3715	-0.0039	0.3569	1.3267	-0.0125	0.3993	-0.0095	0.3010
43	18.22	-12.80	1.0802	-0.0034	0.3552	-0.0031	0.3659	1.3561	-0.0128	0.4031	-0.0094	0.2972
44	18.27	-13.66	1.1544	-0.0047	0.3492	-0.0041	0.3458	1.3568	-0.0135	0.3998	-0.0099	0.2947
45	18.27	-14.48	1.2063	-0.0046	0.4141	-0.0038	0.3433	1.3960	-0.0132	0.3995	-0.0109	0.2862
46	18.32	-15.35	1.2358	-0.0055	0.4318	-0.0044	0.3494	1.3601	-0.0148	0.4096	-0.0109	0.3012

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		186	1.10 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	18.35	-16.01	1.2536	-0.0034	0.4402	-0.0028	0.3512	1.4183	-0.0180	0.4030	-0.0127	0.2842
48	18.33	-16.83	1.3199	-0.0033	0.4451	-0.0025	0.3372	1.3905	-0.0181	0.4146	-0.0130	0.2981
49	18.40	-17.63	1.3339	0.0020	0.4472	0.0015	0.3352	1.3824	-0.0191	0.4211	-0.0138	0.3046
50	18.39	-18.58	1.3583	0.0046	0.4487	0.0034	0.3303	1.3978	-0.0178	0.4181	-0.0128	0.2991
51	18.42	-19.40	1.4171	0.0022	0.4627	0.0016	0.3265	1.3889	-0.0184	0.4223	-0.0132	0.3041
52	18.41	-20.13	1.4248	0.0083	0.4588	0.0059	0.3220	1.3966	-0.0192	0.4235	-0.0137	0.3032

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RXID-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.87	1.10	1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	21.60	19.32	4.5723	-4.1665	-4.3862	4.2440	0.0760	0.1489	-0.9113				
2	21.58	19.04	4.5480	-4.2315	-4.3735	4.1792	0.0700	0.1538	-0.9304				
3	21.57	18.26	4.5708	-4.2944	-4.3910	4.2847	0.0720	0.1432	-0.9395				
4	21.58	17.43	4.4854	-4.2088	-4.2632	4.2608	0.1150	0.1424	-0.9383				
5	21.57	16.60	4.4829	-4.3683	-4.0441	4.0539	0.1250	0.1524	-0.9744				
6	21.55	15.91	4.4504	-4.5148	-3.8509	4.1544	0.1600	0.1366	-1.0145				
7	21.52	15.08	4.4322	-4.7903	-3.6582	4.1526	0.1920	0.1333	-1.0808				
8	21.50	14.35	4.4601	-5.1133	-3.4434	3.9019	0.2250	0.1402	-1.1465				
9	21.49	13.51	4.5124	-5.3805	-3.2288	3.6214	0.2460	0.1341	-1.1924				
10	21.46	12.73	4.3886	-5.4912	-3.0541	3.6108	0.2690	0.1352	-1.2512				
11	21.43	11.99	4.2984	-5.7168	-2.7699	3.5190	0.2630	0.1312	-1.3300				
12	21.40	11.26	4.3066	-6.0013	-2.5327	3.2578	0.2700	0.1334	-1.3935				
13	21.37	10.44	4.2962	-6.1257	-2.2330	2.8152	0.2510	0.1409	-1.4298				
14	21.36	9.56	4.3912	-6.3797	-2.0918	2.3926	0.2540	0.1389	-1.4528				
15	21.35	8.78	4.3100	-6.6530	-1.8288	2.1703	0.2630	0.1452	-1.5436				
16	21.34	7.96	4.3191	-6.7587	-1.6028	1.8520	0.2430	0.1505	-1.5648				
17	21.31	7.14	4.3022	-6.8840	-1.4968	1.6526	0.2450	0.1340	-1.6001				
18	21.34	6.34	4.4353	-7.0433	-1.2764	1.3041	0.2730	0.1712	-1.5880				
19	21.34	5.47	4.4722	-7.2760	-1.1127	0.8508	0.2460	0.1788	-1.6269				
20	21.33	4.70	4.4275	-7.1484	-1.1575	1.1826	0.2590	0.1878	-1.6145				
21	21.27	3.84	4.2846	-7.3833	-0.9607	0.8750	0.2160	0.1855	-1.7232				
22	21.25	3.10	5.2439	-7.4213	-0.9586	0.4641	0.1910	0.1979	-1.7487				
23	21.28	2.31	4.3149	-7.5887	-0.5383	0.1557	0.1550	0.2071	-1.7587				
24	21.22	1.58	4.3102	-7.5911	-0.2794	-0.1858	0.1240	0.1950	-1.7612				
25	21.22	0.74	4.2477	-7.7456	-0.0353	-0.4465	0.0630	0.2203	-1.8235				
26	21.24	0.04	4.3892	-7.6547	-0.0512	-0.2023	0.0360	0.2246	-1.7440				
27	21.23	-0.70	4.2843	-7.6619	-0.1181	0.5473	-0.0240	0.2190	-1.7883				
28	21.20	-1.59	4.2001	-7.5918	0.0113	0.2651	-0.0530	0.2088	-1.8076				
29	21.22	-2.39	4.2503	-7.6733	0.1726	0.1813	-0.1160	0.2055	-1.8053				
30	21.22	-3.17	4.2130	-7.6080	0.2081	0.2546	-0.1460	0.2038	-1.8058				
31	21.23	-3.97	4.2359	-7.5821	0.3681	0.3886	-0.1820	0.2060	-1.7899				
32	21.24	-4.75	4.2743	-7.5389	0.5871	-0.0701	-0.2100	0.2091	-1.7638				
33	21.23	-5.56	4.2317	-7.4472	0.6317	-0.2005	-0.2290	0.1984	-1.7599				
34	21.27	-6.34	4.2344	-7.3250	0.7950	-0.5011	-0.2390	0.1881	-1.7299				
35	21.26	-7.16	4.2552	-7.1982	1.0731	-0.9784	-0.2500	0.1872	-1.6916				
36	21.28	-7.97	4.2643	-7.0089	1.1520	-1.1159	-0.2470	0.1822	-1.6436				
37	21.28	-8.78	4.2217	-6.8653	1.4204	-1.5353	-0.2460	0.1792	-1.6262				
38	21.30	-9.52	4.2015	-6.6109	1.6280	-1.8812	-0.2450	0.1806	-1.5735				
39	21.31	-10.37	4.2483	-6.3656	1.8148	-2.1857	-0.2430	0.1803	-1.4986				
40	21.32	-11.12	4.2623	-6.2992	2.0360	-2.5065	-0.2280	0.1784	-1.4779				
41	21.38	-11.87	4.3502	-5.9593	2.4273	-2.8063	-0.2310	0.1898	-1.3699				
42	21.40	-12.67	4.3978	-5.7680	2.5228	-2.9370	-0.2070	0.2080	-1.3116				
43	21.42	-13.46	4.4144	-5.5223	2.7584	-3.1619	-0.1830	0.2094	-1.2510				
44	21.43	-14.27	4.3936	-5.4192	2.8398	-3.3218	-0.1820	0.2083	-1.2334				
45	21.45	-15.11	4.4411	-5.2477	3.1480	-3.4503	-0.1590	0.1965	-1.1816				
46	21.47	-15.98	4.3036	-5.0262	3.3550	-3.7831	-0.1210	0.1939	-1.1679				

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	187	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	21.49	-16.83	4.4175	-4.7787	3.6539	-3.8767	-0.1050	0.1877	-1.0818		
48	21.51	-17.58	4.4307	-4.5182	3.8668	-3.9447	-0.0570	0.1933	-1.0197		
49	21.52	-18.46	4.4641	-4.3290	4.1348	-4.2419	-0.0240	0.1793	-0.9697		
50	21.55	-19.32	4.5641	-4.3410	4.4051	-4.3764	-0.0010	0.1778	-0.9511		
51	21.55	-20.08	4.5800	-4.2273	4.6881	-4.5596	0.0360	0.1844	-0.9230		

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNFF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		1.10		1-7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH2	XC PF1	YCPF1	CNF2	CH2	CH2	XC PF2	YCPF2	
1	21.60	19.32	-0.1364	0.0421	-0.1009	-0.3090	0.7401	0.9145	0.0339	0.1526	0.0371	0.1668	
2	21.58	19.04	-0.1565	0.0430	-0.0993	-0.2747	0.6348	0.9478	0.0342	0.1425	0.0361	0.1503	
3	21.57	18.26	-0.1612	0.0430	-0.0957	-0.2667	0.5938	0.9685	0.0345	0.1338	0.0357	0.1381	
4	21.58	17.43	-0.0974	0.0430	-0.0785	-0.4414	0.8065	0.9033	0.0356	0.1351	0.0345	0.1496	
5	21.57	16.60	-0.0790	0.0410	-0.0726	-0.5195	0.9193	0.9180	0.0358	0.1279	0.0390	0.1394	
6	21.55	15.91	-0.0721	0.0373	-0.0800	-0.5179	1.1099	0.8564	0.0368	0.1313	0.0430	0.1533	
7	21.52	15.08	-0.0997	0.0404	-0.0731	-0.4056	0.7334	0.8177	0.0382	0.1250	0.0468	0.1529	
8	21.50	14.35	-0.0323	0.0346	-0.0463	-1.0710	1.4323	0.8455	0.0378	0.1246	0.0447	0.1473	
9	21.49	13.51	-0.0122	0.0352	-0.0465	-2.8888	3.8414	0.8365	0.0386	0.1133	0.0462	0.1354	
10	21.46	12.73	0.0137	0.0297	-0.0286	2.1711	-2.0901	0.8514	0.0381	0.1074	0.0448	0.1262	
11	21.43	11.99	-0.0156	0.0280	-0.0340	-1.7978	2.1794	0.8274	0.0385	0.1053	0.0465	0.1273	
12	21.40	11.26	-0.0034	0.0245	-0.0320	-7.2046	9.4214	0.8259	0.0390	0.1083	0.0473	0.1312	
13	21.37	10.44	-0.0155	0.0239	-0.0207	-1.5417	1.3332	0.8329	0.0377	0.1080	0.0453	0.1296	
14	21.36	9.56	0.0891	0.0184	-0.0161	0.2070	-0.1808	0.8035	0.0363	0.1211	0.0452	0.1508	
15	21.35	8.78	0.0629	0.0183	-0.0003	0.2909	-0.0054	0.7958	0.0381	0.1022	0.0479	0.1284	
16	21.34	7.96	0.1495	0.0159	0.0134	0.1063	0.0897	0.8174	0.0355	0.1124	0.0434	0.1375	
17	21.31	7.14	0.1584	0.0192	0.0252	0.1212	0.1590	0.8243	0.0346	0.1132	0.0420	0.1373	
18	21.34	6.34	0.2718	0.0057	0.0631	0.0212	0.2320	0.7514	0.0345	0.1178	0.0459	0.1568	
19	21.34	5.47	0.2586	0.0110	0.0643	0.0425	0.2485	0.7120	0.0341	0.1251	0.0479	0.1757	
20	21.34	4.70	0.1999	-0.0163	0.0950	-0.0818	0.4753	0.6740	0.0349	0.1152	0.0503	0.1709	
21	21.27	3.84	0.2029	0.0006	0.0645	0.0032	0.3179	0.6817	0.0335	0.1084	0.0491	0.1590	
22	21.25	3.10	0.2174	0.0023	0.0809	0.0106	0.3723	0.6774	0.0336	0.1068	0.0497	0.1577	
23	21.28	2.31	0.1553	0.0040	0.0629	0.0261	0.4053	0.6534	0.0336	0.0965	0.0515	0.1478	
24	21.22	1.58	0.2076	0.0157	0.0525	0.0759	0.2528	0.6578	0.0331	0.0893	0.0503	0.1358	
25	21.22	0.74	0.1528	0.0285	0.0244	0.1868	0.1598	0.6384	0.0332	0.0936	0.0521	0.1467	
26	21.24	0.04	0.0447	0.0053	0.0150	0.1197	0.3355	0.5908	0.0337	0.0791	0.0570	0.1349	
27	21.23	-0.70	-0.0829	-0.0017	-0.0374	0.0205	0.4514	0.5971	0.0337	0.0510	0.0564	0.0854	
28	21.20	-1.59	-0.1023	-0.0004	-0.0547	0.0039	0.5346	0.6039	0.0334	0.0397	0.0553	0.0657	
29	21.22	-2.39	-0.1173	0.0013	-0.0784	-0.0076	0.4421	0.6181	0.0332	0.0262	0.0537	0.0424	
30	21.22	-3.17	-0.2833	-0.0178	-0.0892	0.0630	0.3149	0.5470	0.0335	0.0146	0.0613	0.0267	
31	21.23	-3.97	-0.3229	-0.0124	-0.1053	0.0385	0.3261	0.5370	0.0336	0.0083	0.0626	0.0154	
32	21.24	-4.75	-0.3344	-0.0129	-0.1008	0.0387	0.3015	0.5135	0.0331	0.0041	0.0644	0.0081	
33	21.23	-5.56	-0.3282	-0.0158	-0.0997	0.0481	0.3037	0.4773	0.0327	-0.0067	0.0685	-0.0141	
34	21.27	-6.34	-0.3179	-0.0166	-0.0943	0.0522	0.2967	0.4484	0.0319	-0.0115	0.0711	-0.0255	
35	21.26	-7.16	-0.2826	-0.0126	-0.0770	0.0447	0.2724	0.4373	0.0310	-0.0192	0.0709	-0.0440	
36	21.28	-7.97	-0.2208	-0.0187	-0.0565	0.0847	0.2558	0.3899	0.0298	-0.0276	0.0764	-0.0709	
37	21.28	-8.78	-0.2133	-0.0171	-0.0466	0.0804	0.2184	0.3753	0.0290	-0.0351	0.0774	-0.0935	
38	21.30	-9.52	-0.1602	-0.0199	-0.0293	0.1242	0.1828	0.3629	0.0277	-0.0448	0.0764	-0.1235	
39	21.31	-10.37	-0.0825	-0.0205	-0.0196	0.2490	0.2375	0.3193	0.0266	-0.0545	0.0834	-0.1705	
40	21.32	-11.12	-0.0477	-0.0236	-0.0149	0.4957	0.3123	0.2922	0.0259	-0.0623	0.0888	-0.2131	
41	21.38	-11.87	-0.0299	-0.0308	0.0098	1.0316	-0.3240	0.2737	0.0253	-0.0740	0.0926	-0.2704	
42	21.40	-12.67	-0.0047	-0.0282	0.0006	5.9989	-0.1349	0.2510	0.0240	-0.0921	0.0956	-0.3672	
43	21.42	-13.46	0.0244	-0.0326	0.0204	-1.3358	0.8373	0.2027	0.0234	-0.1070	0.1157	-0.5282	
44	21.43	-14.27	0.0612	-0.0361	0.0347	-0.5898	0.5669	0.1982	0.0214	-0.1101	0.1181	-0.5458	
45	21.45	-15.11	0.0434	-0.0370	0.0398	-0.3461	0.4264	0.1810	0.0225	-0.1227	0.1246	-0.6778	
46	21.47	-15.98	0.1354	-0.0393	0.0614	-0.2906	0.4536	0.1163	0.0227	-0.1308	0.1952	-1.1251	

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	187	1.10	1.7	0.0	02NOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	21.49	-16.83	0.1856	-0.0387	0.0579	-0.2087	0.3122	0.0690	0.0224	-0.1413	0.3246	-2.0479	
48	21.51	-17.58	0.1565	-0.0393	0.0727	-0.2511	0.4648	-0.0018	0.0229	-0.1560	-12.7200	86.6665	
49	21.52	-18.46	0.2111	-0.0406	0.0877	-0.1925	0.4156	-0.0406	0.0242	-0.1676	-0.5960	4.1288	
50	21.55	-19.32	0.2484	-0.0421	0.1009	-0.1695	0.4061	-0.0882	0.0251	-0.1738	-0.2851	1.9704	
51	21.55	-20.08	0.2775	-0.0457	0.1200	-0.1646	0.4323	-0.1206	0.0254	-0.1776	-0.2106	1.4725	

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.10	1.7	0.0	BZMOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	21.60	19.32	-1.2915	0.0137	-0.4901	-0.0106	0.3795	0.3039	-0.0452	0.1299	-0.1487	0.4273
2	21.58	19.04	-1.2647	0.0141	-0.5008	-0.0111	0.3960	0.3103	-0.0452	0.1322	-0.1458	0.4260
3	21.57	18.26	-1.2829	0.0133	-0.4550	-0.0104	0.3858	0.3254	-0.0458	0.1310	-0.1407	0.4026
4	21.58	17.43	-1.2411	0.0140	-0.4437	-0.0113	0.3978	0.3361	-0.0476	0.1380	-0.1417	0.4105
5	21.57	16.60	-1.2614	0.0137	-0.4802	-0.0109	0.3807	0.3509	-0.0482	0.1482	-0.1374	0.4224
6	21.55	15.91	-1.2260	0.0155	-0.4841	-0.0126	0.3949	0.3329	-0.0465	0.1632	-0.1075	0.3769
7	21.52	15.08	-1.2047	0.0140	-0.4717	-0.0117	0.3916	0.4431	-0.0475	0.1841	-0.1072	0.4156
8	21.50	14.35	-1.1157	0.0147	-0.4748	-0.0132	0.4256	0.5494	-0.0476	0.1926	-0.0867	0.3505
9	21.49	13.51	-1.0763	0.0127	-0.4571	-0.0118	0.4239	0.5753	-0.0463	0.2078	-0.0805	0.3612
10	21.46	12.73	-1.0288	0.0113	-0.4415	-0.0110	0.4291	0.6451	-0.0445	0.2126	-0.0690	0.3295
11	21.43	11.99	-0.9610	0.0089	-0.4254	-0.0093	0.4427	0.6851	-0.0386	0.2387	-0.0563	0.3484
12	21.40	11.26	-0.9226	0.0067	-0.4127	-0.0073	0.4473	0.7523	-0.0334	0.2528	-0.0444	0.3360
13	21.37	10.44	-0.8599	0.0048	-0.3892	-0.0056	0.4526	0.7824	-0.0321	0.2495	-0.0411	0.3189
14	21.36	9.56	-0.7957	0.0026	-0.3694	-0.0033	0.4643	0.7778	-0.0304	0.2663	-0.0391	0.3423
15	21.35	8.78	-0.7485	0.0011	-0.3473	-0.0015	0.4640	0.8496	-0.0267	0.2680	-0.0314	0.3154
16	21.34	7.96	-0.6787	-0.0001	-0.3279	-0.0001	0.4832	0.8302	-0.0249	0.2728	-0.0300	0.3285
17	21.31	7.14	-0.6038	-0.0013	-0.3095	0.0022	0.5132	0.8334	-0.0250	0.2822	-0.0300	0.3386
18	21.34	6.34	-0.5542	-0.0051	-0.2811	0.0092	0.5073	0.8698	-0.0219	0.2895	-0.0252	0.3329
19	21.34	5.47	-0.4687	-0.0089	-0.2413	0.0191	0.5147	0.8850	-0.0198	0.2979	-0.0224	0.3366
20	21.33	4.70	-0.3939	-0.0081	-0.2153	0.0207	0.5467	0.9893	-0.0196	0.3114	-0.0199	0.3147
21	21.27	3.84	-0.3293	-0.0083	-0.1857	0.0253	0.5639	0.9791	-0.0159	0.3181	-0.0163	0.3248
22	21.25	3.10	-0.2177	-0.0065	-0.1567	0.0299	0.7200	0.9953	-0.0133	0.3291	-0.0134	0.3306
23	21.28	2.31	-0.1761	-0.0052	-0.1201	0.0298	0.6819	1.0798	-0.0131	0.3258	-0.0121	0.3017
24	21.22	1.58	-0.1052	-0.0045	-0.0761	0.0428	0.7239	1.0375	-0.0096	0.3347	-0.0093	0.3226
25	21.22	0.74	-0.0475	-0.0038	-0.0467	0.0800	0.9837	1.0897	-0.0091	0.3343	-0.0084	0.3068
26	21.24	0.04	0.0135	-0.0044	-0.0172	-0.3296	-1.2742	1.1520	-0.0101	0.3464	-0.0088	0.3007
27	21.23	-0.70	0.0919	-0.0040	0.0026	-0.0435	0.0285	1.1869	-0.0120	0.3642	-0.0101	0.3068
28	21.20	-1.59	0.1101	-0.0046	0.0393	-0.0422	0.3968	1.1905	-0.0092	0.3714	-0.0078	0.3120
29	21.22	-2.39	0.2094	-0.0009	0.0646	-0.0043	0.3084	1.2328	-0.0102	0.3709	-0.0083	0.3009
30	21.22	-3.17	0.2855	-0.0012	0.0932	-0.0042	0.3266	1.3057	-0.0105	0.3798	-0.0080	0.2909
31	21.23	-3.97	0.3243	0.0021	0.1329	0.0066	0.4097	1.3178	-0.0095	0.3850	-0.0072	0.2922
32	21.24	-4.75	0.4274	0.0046	0.1574	0.0109	0.3645	1.3159	-0.0104	0.3916	-0.0079	0.2976
33	21.23	-5.56	0.4938	0.0063	0.1564	0.0129	0.3978	1.3333	-0.0114	0.4005	-0.0086	0.3004
34	21.27	-6.34	0.5773	0.0071	0.2220	0.0123	0.3845	1.3740	-0.0109	0.3979	-0.0080	0.2896
35	21.26	-7.16	0.6647	0.0060	0.2518	0.0090	0.3740	1.3461	-0.0103	0.4057	-0.0076	0.3014
36	21.28	-7.97	0.7150	0.0045	0.2786	0.0063	0.3877	1.3566	-0.0042	0.3945	-0.0031	0.2908
37	21.28	-8.78	0.8065	0.0040	0.2998	0.0050	0.3718	1.3642	-0.0046	0.4011	-0.0034	0.2940
38	21.30	-9.52	0.8629	0.0023	0.3284	0.0027	0.3806	1.3774	-0.0006	0.3891	-0.0005	0.2820
39	21.31	-10.37	0.9595	0.0018	0.3428	0.0019	0.3573	1.3739	-0.0002	0.3908	-0.0001	0.2845
40	21.32	-11.12	1.0012	-0.0002	0.3658	-0.0002	0.3654	1.4034	0.0014	0.3950	0.0010	0.2814
41	21.38	-11.87	1.0420	-0.0014	0.3828	-0.0013	0.3674	1.3841	0.0051	0.3912	0.0037	0.2827
42	21.40	-12.67	1.1273	-0.0036	0.3974	-0.0032	0.3525	1.4210	-0.0013	0.4036	-0.0009	0.2840
43	21.42	-13.46	1.1847	-0.0044	0.4138	-0.0038	0.3493	1.3968	-0.0015	0.4137	-0.0011	0.2961
44	21.43	-14.27	1.2248	-0.0044	0.4211	-0.0036	0.3438	1.3921	0.0029	0.4071	0.0021	0.2924
45	21.45	-15.11	1.2623	-0.0052	0.4452	-0.0041	0.3527	1.4308	-0.0013	0.4127	-0.0009	0.2884
46	21.47	-15.98	1.3057	-0.0051	0.4529	-0.0039	0.3468	1.4259	-0.0000	0.4146	-0.0000	0.2907

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

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MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		1.07	1.10	1.1	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	21.49	-16.83	1.3509	-0.0046	0.4572	-0.0034	0.3385	1.4450	-0.0041	0.4205	-0.0029	0.2910	
48	21.51	-17.58	1.3678	0.0010	0.4572	0.0007	0.3342	1.4885	-0.0053	0.4193	-0.0036	0.2817	
49	21.52	-18.46	1.4016	-0.0012	0.4688	-0.0009	0.3345	1.4929	-0.0073	0.4224	-0.0049	0.2829	
50	21.55	-19.32	1.4355	0.0007	0.4722	0.0005	0.3290	1.4632	-0.0079	0.4329	-0.0054	0.2958	
51	21.55	-20.08	1.4824	0.0032	0.4737	0.0022	0.3195	1.5135	-0.0085	0.4295	-0.0056	0.2838	

Listing of Part Numbers for the Tabulated Data of Test No. 6

CONF	L	DEL1	DEL2	DEL3	DEL4	PHI	TRANSITION	R x 10 ⁻⁶	Q	β	Part Number					
											M _∞	M _∞	M _∞	M _∞	M _∞	M _∞
											0.85	0.92	0.97	1.01	1.05	1.10
B2WOF16	0	0	0	0	0	0	Fixed	1.7	Vary	0	1	2	3	4	5	6
B2WOF13											7	8	9	10	11	12
B2WOF12											13	14	15	16	17	18
									3	Vary	19					
									6		20					
									9		21					
									12		22					
									15		23					
									18		24					
B2W2F0	16.75	OFF	OFF	OFF	OFF				Vary	0	(25)	(26)	(27)	(28)	(29)	(30)
B2W1F0	15.40										(31)	(32)	(33)	(34)	(35)	(36)
B2W3F0	16.75										(37)	(38)	(39)	(40)	(41)	(42)
B2W3F12		0	0	0	0						(43)	(44)	(46)	(47)	(48)	(49)
B2W2F12											(57)	(50)	(51)	(52)	(53)	(54)
														56	55	
B2W1F12	15.40										(58)	(59)	(60)	(61)	(62)	(63)
B2WOF13	0	30	0	30					0	Vary	(64)	(65)	(66)	(67)	(68)	(69)
B2WOF12													(71)	(72)	(73)	(74)
B2WOF16											(75)	(76)	(77)	(78)	(79)	(80)
		20		20							(81)	(82)	(83)	(85)	(86)	(87)
		10		10							(88)		(91)	(92)	(93)	(94)
B2WOF0		OFF	OFF	OFF	OFF				Vary	0	(95)	(96)	(97)	(98)	(99)	(100)
B2WOF13		10	0	10	0				0	Vary	(102)	(103)	(104)	(105)	(106)	(107)
		20		20							(108)	(109)	(110)	(111)	(112)	(113)
B2WOF12											(114)	(115)	(116)	(117)	(118)	(119)
		10		10							(120)	(121)	(122)	(123)	(124)	(125)
		0		0							(140)	(148)	(156)	(164)	(172)	(180)
										3	141	149	157	165	173	181
										6	(142)	(150)	(158)	(166)	(174)	(182)
										9	143	151	159	167	175	183
										12	(144)	(152)	(160)	(168)	(176)	(184)
										15	145	153	161	169	177	185
										18	(146)	(154)	(162)	(170)	(178)	(186)
										21	147	155	163	171	179	187

NOMENCLATURE

A	Streamwise length of beveled portion of fin leading edge, in. (see Fig. 6)
ALPHA (α)	Model angle of attack, deg
AR	Fin aspect ratio, b^2/S_F
B	Streamwise length of beveled portion of fin trailing edge, in. (see Fig. 6)
BETA (β)	Model angle of sideslip, deg
b	Tail fin span, measured from the root chord to the tip, in. (see Fig. 6)
CA	Axial-force coefficient, measured axial force/ $q_\infty S$
CAB	Base axial-force coefficient, $(p_a - p_b)/q_\infty$
CAF	Forebody axial-force coefficient, CA - CAB
CB	Splitter plate tail fin root bending-moment coefficient, fin bending moment/ $q_\infty S_F b$
CB1, CB2, CB3, CB4	Root bending-moment coefficient of tail fins No. 1, 2, 3, and 4, respectively, fin bending moment/ $q_\infty S_F b$
CH	Splitter plate tail fin hinge-moment coefficient, hinge moment/ $q_\infty S_F C_R$
CH1, CH2, CH3, CH4	Hinge-moment coefficients of tail fins No. 1, 2, 3, and 4, respectively, fin hinge moment/ $q_\infty S_F C_R$
CLL	Rolling-moment coefficient, rolling moment/ $q_\infty Sd$
CLM	Pitching-moment coefficient, pitching moment/ $q_\infty Sd$ (moment reference point located on centerline at 50 percent of model body length)
CLN	Yawing-moment coefficient, yawing moment/ $q_\infty Sd$
CN	Normal-force coefficient, normal force/ $q_\infty S$

CNF	Splitter plate tail fin normal-force coefficient, fin normal force/ $q_{\infty} S_F$
CNF1, CNF2, CNF3, CNF4	Normal-force coefficient of tail fins No. 1, 2, 3, and 4, respectively, fin normal force/ $q_{\infty} S_F$
CONF	Model configuration identification
C_R	Tail fin root chord, in. (see Fig. 6)
C_T	Tail fin tip chord, in. (see Fig. 6)
C_Y	Side-force coefficient, side force/ $q_{\infty} S$
d	Model body maximum diameter, in. (see Fig. 3)
DEL1, DEL2, DEL3, DEL4	Deflection of tail fins No. 1, 2, 3, and 4, respectively, deg
L	Distance between model nose and the intersection of the wing leading edge with the body (measured parallel to the body centerline), in.
MACH (M_{∞})	Nominal free-stream Mach number
PART	Data indexing number
PHI	Model roll angle, deg
POINT	Data indexing number per part number
p_b	Average static pressure at model base, psfa
p_{∞}	Free-stream static pressure, psfa
q_{∞}	Free-stream dynamic pressure, psf
R	Nominal Reynolds number per foot
S	Maximum body cross-sectional area, ft ²
S_F	Tail fin planform area, ft ² (see Fig. 6)
TEST	Test identification number
T_R	Tail fin root thickness, in. (see Fig. 6)

TRANSITION	Transition identification
X	Distance from fin root chord leading edge to fin hinge line, in. (see Fig. 6)
XCP	Missile body center-of-pressure location, CLM/CN'
XCPF	Splitter plate fin longitudinal center-of-pressure location, CH/CNF
XCPF1, XCPF2 XCPF3, XCPF4	Longitudinal center-of-pressure location of tail fins No. 1, 2, 3, and 4, respectively, hinge moment/fin normal force
YCPF	Splitter plate fin lateral center-of-pressure location, CB/CNF
YCPF1, YCPF2 YCPF3, YCPF4	Lateral center-of-pressure location of tail fins No. 1, 2, 3, and 4, respectively, root bending moment/fin normal force
Λ	Tail fin leading-edge sweep angle (see Fig. 6)
λ	Tail fin taper ratio, C_T/C_R