

AD/A-002 871

**A STRUCTURAL WEIGHT ESTIMATION PROGRAM
(SWEEP) FOR AIRCRAFT. VOLUME IX - USER'S
MANUAL. APPENDIX A**

R. Allen, et al

Rockwell International Corporation

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Aeronautical Systems Division

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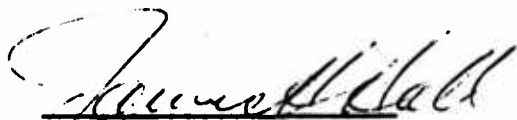
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JAMES H. HALL, Colonel, USAF
Deputy for Development Planning

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Three computer programs were written with the objective of predicting the structural weight of aircraft through analytical methods. The first program, the structural weight estimation program (SWEEP), is a completely integrated program including routines for airloads, loads spectra, skin tem- peratures, material properties, flutter stiffness requirements, fatigue life, structural sizing, and for weight estimation of each of the major aircraft structural components. The program produces first-order weight estimates		

and indicates trends when parameters are varied. Fighters, bombers, and cargo aircraft can be analyzed by the program. The program operates within 100,000 octal units on the Control Data Corporation 6600 computer. Two stand-alone programs operating within 100,000 octal units were also developed to provide optional data sources for SWEEP. These include (1) the flexible airloads program to assess the effects of flexibility on lifting surface airloads, and (2) the flutter optimization program to optimize the stiffness distribution required for lifting surface flutter prevention.

The final report is composed of 11 volumes. This volume (Volume IX) contains the instructions and input descriptions for use of the integrated SWEEP program.

APPENDIX A
SAMPLE TEST CASE
C-141A TRANSPORT

INTRODUCTION

This appendix contains the input data and output results for a sample problem run on SWEEP, the C-141A transport demonstration aircraft, metallic design.

Card image listings of sample case data blocks can be found herein. Definitions of each data item can be found in Sections II through VII of Volume IX, 'Users' Manual.' The values used were based primarily on information derived from weight reports and maintenance manuals for the C-141A transport.

The final output for the sample case is also presented in this appendix. Intermediate results, printed under control of control card 1, are presented in sequence of output for the problem. A complete listing of SWEEP data bank data is included. Analysis summaries are shown in complete form. Array dumps and other large output blocks have been altered to show only the initial and final portions of the output. The general intent here is to show the type of output that can be expected from control card 1 indicators.

Each printed block is identified by an "IP (XX)" heading and the printing subroutine. The "XX" denotes the control card 1 column that orders the output.

Output samples for the horizontal and vertical tails are not included, since outputs for these surfaces are similar to that for the wing. The wing problem is for a metallic design, but sample outputs for an advanced composite analysis are also included. These outputs can be identified from the output tables and controls summary list. All overlay (18,0) outputs are advanced composite samples.

SAMPLE TEST CASE INPUT DATA
C-141A TRANSPORT

GENERAL

701	31.0	0.0	0.0	0.0	0.0	1.0	GNPC1411
706	0.0	0.0	1.0	0.0	0.0		GNPC1412
721	318000.0			316100.0	931.65	257500.0	GNPC1411
726		30000.0		12000.0			GNPC1412
731	2.5	2.0	-1.0		2.0	1.0	C141 GN
736-0.5		147.0	103.0		6.0	10.0	GNPC1414
741	28.0	12.0	61.7		41.5	920.0	GNPC1415
746	991.77	354.75	96.0		105.0		GNPC1416
751	0.574	0.680	0.814		0.85	0.85	NATM1411
756	0.0	10000.0	20000.0		22500.0	50000.0	NATM1412
761	0.026	0.026	0.026		0.02	0.02	NATM1413
766	0.0	0.0	0.0		0.0	0.0	NATM1414
771	0.0	0.0	0.0		0.0	0.0	NATM1415
776	0.0	0.0	0.0		0.0	0.0	NATM1416
781	0.0	0.0	0.0		0.0	0.0	NATM1417
786	0.0	0.0	0.0		8000.0		NATM1418
791	0.0	0.0	0.0		0.0	0.0	GNWT1411
796	0.0	3714.0	0.0		0.0	18759.0	GNWT1412
801	0.0	0.0	0.0		3577.0	144.0	GNWT1413
806	212.0	1380.0	236.0		320.0	554.0	GNWT1414
811	1122.0	1489.0	2650.0		2347.0	0.0	GNWT1415

816	3270.0	2648.0	0.0	95.0	112.0	G0WT1416
821	860.0	2164.0	416.0	0.0	236.0	G0WT1417
826	0.0	0.0	0.0	0.0	0.0	G0WT1418
831	0.0	0.0	0.0	0.0	0.0	G0WT1419
836	0.0	1121.8	0.0	0.0	774.1	G0WT1420
841	0.0	0.0	0.0	845.67	803.9	G0WT1421
846	840.9	953.4	666.2	768.3	844.7	G0WT1422
851	545.0	881.9	657.5	592.4	0.0	G0WT1423
856	596.8	809.9	0.0	1228.0	300.0	G0WT1424
861	351.3	1001.9	753.61	0.0	852.97	G0WT1425
866	0.0	0.0	0.0	0.0	0.0	G0WT1426
871	70000.0	0.0	0.0	67640.0	49040.0	G0WT1427
876	0.0	0.0	0.0	0.0	0.0	G0WT1428
881	887.0	0.0	0.0	858.0	1047.34	G0WT1429
886	0.0	0.0	0.0	0.0	0.0	G0WT1430
891	452.0	1292.0	0.0	0.0	78.0	G0WT1431
896	325.0	415.0	948.0	0.0	0.0	G0WT1432
901	0.0	0.0	0.0	0.0	0.0	G0WT1433
906	0.0	0.0				G0WT1434
911	1.0	0.0	0.0	1.0	1.0	G0WT1435
916	0.0	0.0	0.0	0.0	0.0	G0WT1436
921	1.0	0.0	0.0	0.971910	1.0	G0WT1437

1061 0.0	0.0	0.0	0.0	0.0	0.0	GAVC1415
1066 0.0	0.0	0.0	0.0	0.0	0.0	GAVC1416
1081 1.0	19.0					GARC1411
1086 230.4	280.0	350.0	440.0	1200.0		GARC1412
1091 1300.0	1400.0	1520.0	1680.0	1817.9		GARC1413
1096 200.0	200.0	200.0	200.0	200.0		GARC1414
1101 225.0	240.0	252.0	262.0	270.0		GARC1415
1106 0.0	101.2	150.2	17.0	170.0		GARC1416
1111 168.0	158.5	133.7	75.7	0.0		GARC1417
1116 0.0	101.2	150.2	170.0	170.0		GARC1418
1121 160.0	158.5	133.7	75.7	0.0		GARC1419
1126 0.0	318.0	472.0	534.0	534.0		GARC1420
1131 528.0	498.0	420.0	238.0	0.0		GARC1421
1136 272.0	349.0	353.0	452.0	600.0		GARC1422
1141 732.0	716.0	846.0	956.0	960.0		GARC1423
1146 996.0	1000.0	1142.0	1222.0	1398.0		GARC1424
1151 1639.0	1643.0	1726.0	1730.0			GARC1425
1161 4.0	1.2	2.0	1648.0	4.0		NATS1411
1166 6.0	4.0	21000.0	4690.0	187.0		NATS1412
1171 45.0	88.2	648.0	285.0	192.71		NATS1413
1176 737.0	460.0	185.52		70.0		NATS1414
1181 0.0	171.0	40.0	171.0	40.0		NATS1415

1186 0.10	0.0	0.0	0.0	0.0	NATS1416
1201 1.0	1.0				NATN1411
1211 0.0	6.0	12.0			NATN1412
1221 0.0	0.0	0.0			NATN1413
1231 0.0	0.0	0.0			NATN1414
1241 47.0	50.0	52.5			NATN1415
1251 47.0	50.0	52.5			NATN1416
1261 147.7	157.1	165.0			NATN1417
1271 0.0					NATR1411
1291 2.0	10.0				NATN1411
1296			66.0	66.0	NATN1412
1301 0.0	10.0	20.0	40.0	40.0	NATN1413
1306 170.0	140.0	160.0	180.0	199.218	NATN1414
1311 0.0	0.0	0.0	0.0	0.0	NATN1415
1316 0.0	0.0	0.0	0.0	0.0	NATN1416
1321 0.0	0.0	0.0	0.0	0.0	NATN1417
1326 0.0	0.0	0.0	0.0	0.0	NATN1418
1331 48.0	63.0	66.0	66.0	66.0	NATN1419
1336 65.5	65.0	67.5	60.0	54.0	NATN1420
1341 48.0	63.0	66.0	66.0	66.0	NATN1421
1346 65.5	65.0	67.5	60.0	54.0	NATN1422
1351 1.0	1.0	1.0	1.0	1.0	NATN1423
1356 1.0	1.0	1.0	1.0	1.0	NATN1424

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FATIGUE	CONSTANT DATA FOR FATIGUE.						
1 1.0	2.0	3.0	4.0			FATIG000	
6 6.0	7.0	8.0	9.0	5.0		FATIG001	
11 11.0	12.0	20.0	1000.0	10.0		FATIG002	
16 0.01745229	144.0	24.0	0.5	3.1415927		FATIG003	
21 0.33333333	0.95	0.25	0.0	1.5		FATIG004	
51 1.12	0.893	0.0792	0.179			FATIG005	
56 0.25	81.4	0.75	100000000.	3.31		FATIG006	
61 0.015	0.001	0.01	-0.1666667	1000000.		FATIG007	
78 0.5	1000000000.	1.0	0.05			FATIG008	
108 0.0						FATIG009	
113 4.0	4.0	2.5	2.5	4.0		FATIG010	
118 3.0						FATIG011	
1200 1.0	8.6						
1301 0.0	0.0	0.0				FATIG013	
1401 20000.0							

1.5

46 0.0	257500.0	1900.0	922.7	926.6	L6000001
51 141.6	991.77	354.75	210.0	240000.0	L6000002
56 0.33	165000.0	30000000.0	0.28	0.0	L6000003
61 0.0	1.0	1.0	1.0	1.0	L6000004
66 1.0	1.0	4.0	0.0	4.0	L6000005
71 0.0	61.7	28.0	0.0	0.0	L6000006
76 4.0	0.0	0.0	44.0	16.0	L6000007
81 41.5	12.0	0.0	0.0	2.0	L6000008
86 0.0	36.0	11.0	6.0	10.0	L6000009
91 236.0	209.0	0.0	0.0	0.0	L6000010
96 0.0	0.0	1.0	0.0	0.0	L6000011
101 0.0	0.0	0.0	0.0	0.0	L6000012
106 0.0					L6000013

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ATS

281	4.0	1.2	2.0	1648.0	4.0	NATS1411
286	6.0	4.0	21000.0	4690.0	187.0	NATS1412
291	45.0	88.2	628.4	285.0	192.71	DATS1413
296	719.4	460.0	185.52		70.0	NATS1414
301	0.0	471.0	40.0	171.0	40.0	NATS1415
306	0.10	0.0	0.0	0.0	0.0	NATS1416
311	4.0	4.0	4.0		4.0	NATS1417
316	0.0	2.5				NATS1418
321	3.0	1.0				NATS1419
324	4.0	6.0	20.0	1.0		NATS1411
331	0.0	6.0	12.0			NATS1412
341	0.0	0.0	0.0			NATS1413
351	0.0	0.0	0.0			NATS1414
361	47.0	50.0	52.5			DATS1415
371	47.0	50.0	52.5			NATS1416
381	147.7	157.1	165.0			DATS1417
601	0.574	0.680	0.814	0.85	0.85	NATS1411
606	0.0	10000.0	20000.0	22500.0	50000.0	NATS1412
611	0.026	0.076	0.026	0.02	0.02	NATS1413
401	0.0					NATS1411
521	10.0	2.0	0.0			NATS1411

526	7.0	4.0	0.0	66.0	66.0	NATN1412
531	0.0	10.0	20.0	40.0	60.0	NATN1413
536	120.0	140.0	160.0	180.0	199.219	NATN1414
541	0.0	0.0	0.0	0.0	0.0	NATN1415
546	0.0	0.0	0.0	0.0	0.0	NATN1416
551	0.0	0.0	0.0	0.0	0.0	NATN1417
556	0.0	0.0	0.0	0.0	0.0	NATN1418
561	48.0	63.0	66.0	66.0	66.0	NATN1419
566	65.5	65.0	63.5	60.0	54.0	NATN1420
571	48.0	63.0	66.0	66.0	66.0	NATN1421
576	65.5	65.0	63.5	60.0	54.0	NATN1422
581	1.0	1.0	1.0	1.0	1.0	NATN1423
586	1.0	1.0	1.0	1.0	1.0	NATN1424

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HORIZONTAL

80 0.0	316100.0	0.0	1.0	C141A001
85 2.5	1.0	530.0	316100.0	C141A001
89 116940.0				
91 116940.0		1.0		
125 0.15	0.65			C141M003
144 0.0048528				C141M005
136 .650			1.0	
138 0.25			0.0	C141M004
155			0.0	
161 0.0	0.0	0.0	0.0	
166 0.0				
201			1.0	
235 483.0	5.2487	0.360883	0.0	C141M008
240 483.0	5.2487	25.0	0.105009	C141M009
245 1.00	0.0			C141M010
250 1.0	1.0	1.15	530.0	C141A011
251	.9184	0.0	1.0	
255 0.0	0.0	0.40	6.0	C141A012
289-1.0				C141M014
336			483.0	
341 5.2487	.369883	0.0	.105	
			1.0	

346 1.0	1.0	1.0	1.0	1.0	1.0	C141A016
351 1.0	1.0	1.0	1.0	1.0	1.0	C141A017
356 1.0						C141A018
361 0.0						C141A019
365 0.45	0.7	2.0	1.0	3.0		C141A020
370 0.05	0.04	0.04	0.064	0.064		C141A021
375 22.0	22.0	1.0	3.0	0.5		C141A022
380 4.25	4.25	1.0	3.0	0.0		C141A023
390 0.0	0.65	0.5	1.0	0.05		C141A024
398 1.0						C141A025
450 0.0	0.0	0.0	0.0	0.0		C141A027
455 0.80	0.40					C141A028
472 1.0			1.0			C141A029
477 1.0		1.0	0.0	1.0		C141A030
482 1.0	1.0	1.0	1.0	1.0		C141A031
487 1.0	1.0	1.0	1.0	1.0		C141A032
492 1.0	1.0	1.0	1.0	1.0		C141A033
497 1.0	1.0	1.0	1.0	1.0		C141A034
502 1.0	1.0	1.0	1.0	1.0		C141A035
520 1.0						
575 4.0	7.0	0.0				
686 0.0						C141A045

841	1.05	1.05	1.05	1.05	1.05
846 1.05	1.05	1.05	1.05	1.05	1.05
851 1.05	1.05	1.20	1.20	1.20	1.20
856 1.20	1.20	1.20	1.20	1.20	1.20
861 1.20	1.20	1.20			
864 0.0					
1086		1.0	1.0	1.0	1.0
1091 1.0	1.0	1.0	1.0	1.0	1.0
1096 1.0	1.0				
1686					5.0
1691 2.0	10.0	301.0	0.66	0.66	0.66
1701			0.68	0.68	0.68
1706 0.68	0.68		1.0	1.0	
1706			1.175		
1781					1.0
1818			1.0	445.0	10.0
1823 300.0	.65	.65		0.0	.40
1828 0.0					
2001					

VERTICAL

	C141	NET. 72		
80 0.0	316100.0	0.0	1.0	C141A001
81			1.0	
85 0.001	0.0001	530.0	316100.0	C141V001
86 1.0			116940.0	
91 116940.0		1.0		
125 0.15	0.65			C141V003
136 .650			1.0	
138 0.25			0.0	C141V004
144 0.0042644				C141V005
156			0.0	
161 0.0	0.0	0.0	0.0	
166 0.0				
201			1.0	
235 832.0	2.48172	0.608912	0.0	C141V008
240 832.0	2.48172	35.0	0.129984	C141V009
245 1.00	0.0			C141V010
250 1.0	1.0	1.15	530.0	C141A011
251	.9184	0.0	1.0	
255 0.0	0.0	0.40	6.0	C141A013
289 1.0				C141V014
336 .600	808.0	3900000.0	1.0	
			832.0	

341	2.48172	.608912	0.0	.129984	1.0	
346	1.0	1.0	1.0	1.0	1.0	C141A016
351	1.0	1.0	1.0	1.0	1.0	C141A017
356	1.0					C141A018
356		1.0				
361	0.0					C141A019
365	0.45	0.7	2.0	1.0	3.0	C141A020
370	0.05	0.04	0.04	0.064	0.064	C141A021
375	22.0	22.0	1.0	3.0	0.5	C141A022
380	3.0	3.0	1.0	3.0	0.0	C141A023
390	0.0	0.65	0.5	1.0	0.05	C141A024
391		1.0				
398	1.0					C141A025
450	0.0	0.0	0.0	0.0	0.0	C141A027
455	0.80	0.40				C141A028
472	1.0			1.0		C141A029
477	1.0		1.0	0.0	1.0	C141V030
482	1.0	1.0	1.0	1.0	1.0	C141A031
487	1.0	1.0	1.0	1.0	1.0	C141A032
492	1.0	1.0	1.0	1.0	1.0	C141A033
497	1.0	1.0	1.0	1.0	1.0	C141A034
502	1.0	1.0	1.0	1.0	1.0	C141A035

[illegible]

WING

81	316100.0					2.5
86	1.0	530.0	316100.0	116940.0		
91	116940.0		1.0			
121						.12
126	.635	.3775	0.0	1.0		
131						.12
136	.635	.3775	.25	950.0		0.0
141	0.0	1.0		.05		
156				0.0		0.0
161	0.0	0.0	0.0	0.0		0.0
166	0.0	0.0	0.0	0.0		0.0
171	0.0	0.0	0.0	0.0		0.0
176	648.76	0.0	0.0			
201						1.0
206	78.0	285.0	.0372	1.0	34160.0	
211	.012		415.0	948.0	.0281	
216	1.0	24310.0	.012			
231						3002.5
236	8.52	.4175	155.4		3002.5	
241	8.52	25.0	.1633	.4175	.61237	
246	155.4	0.0	0.0			

251	1.0	.9184	0.0	1.0	
256			6.0	80.0	
271	1.0	0.0	0.0	0.0	0.0
276	0.0	0.0	0.0	0.0	1.0
286				0.0	.80
291	0.0	10500000.0	39000000.0		316100.0
296	932.0	26.00	F.09 34.0	F.09 92000.0	366.0
301	932.0	13.0	F.08 33.0	F.09 .825	0.0
306		10500000.0	39000000.0	1.15	
311		1.0	.9	1.0	.975
316	.001				
336					3002.5
341	8.52	.4175	155.4	.1633	.61237
346	0.0				
361	0.0				.50
366	.75	2.0	1.0	3.0	.050
371	.040	.040	.064	.064	22.0
376	22.0	1.0	3.0	.50	4.25
381	4.25	1.0	3.0	0.0	
386	0.0				
391	.65	.40	1.0		
396			.850		

461 0.0					
471 2.0	2.0	2.0	1.0		
476 1.0	1.0	1.0			
500 0.500					
516					1.0
646					1.0
651	1.25	1.25			
656					1.50
661					4.0
841	1.05	1.05	1.05	1.05	1.05
846 1.05	1.05	1.05	1.05	1.05	1.05
851 1.05	1.05	1.20	1.20	1.20	1.20
856 1.20	1.20	1.20	1.20	1.20	1.20
861 1.20	1.20	1.20	1.20		
1086		1.0	1.0	1.0	1.0
1091 1.0	1.0	1.0	1.0	1.0	1.0
1096 1.0	1.0				
1206 1.0					
1236 1.0					
1576					1.0
1581 105.0	100.0	100.0	0.785		110.0
1586 .910	0.0	1.361	0.0		

1591					3.0
1596	420.0	640.0	.832	.790	.920
1601	.895	0.0	1.475	0.0	
1606					1.0
1611	1.0	95.0	400.0	.935	.684
1621				302.0	.770
1626	.935	.684	0.0	1.0	1.0
1631	1.0	410.0	650.0	.760	.705
1641				.829	.795
1646	.760	.705	0.0	1.0	
1666					4.0
1671	1.0	665.0	958.0	.792	.715
1681				.802	.725
1686	.802	.725	0.0	1.0	
1818			1.0	860.0	78.0
1823	950.0	.700	.650	660.0	.400
1828	.25				
1851					7808.0
1856	285.0	-.182	83.0	1.0	0.0
1861	0.0	0.0	196.0	70.0	70.0
1866	1.0	7808.0	460.0	-.222	81.0
1871	1.0	0.0	0.0	0.0	196.0

1876	70.0	70.0	1.0	
1904	1.0			
1916	1.0			
2006			0.0	405.0
2016				0.0
2021	0.0			79.0
2031	0.0	405.0	959.69	
2041		.1308	.1105	.1000
280	0.0			
2055				

FUSFLAGF

241 32.0	19.0	1.0	2.0	0.0	CINDC141
246 4.0	5.0	5.0	4.0	3.0	CINDC141
251 0.0	4.0	0.0	0.0	6.0	CINDC141
256 6.0	1020.0				CINDC141
271 1.220	1.188	1.0	1.258	1.100	CINDC141
276 1.100					CINDC141
291 231.0	280.0	350.0	440.0	1200.0	XI C141
296 1300.0	1400.0	1520.0	1680.0	1819.0	XI C141
301 200.0	200.0	200.0	200.0	200.0	ZI C141
306 225.0	240.0	252.0	262.0	270.0	ZI C141
311 0.0	101.2	150.2	170.0	170.0	NI C141
316 168.0	158.5	133.7	75.7	0.0	NI C141
321 0.0	101.2	150.2	170.0	170.0	WI C141
326 168.0	158.5	133.7	75.7	0.0	WI C141
331 0.0	318.0	472.0	534.0	534.0	PI C141
336 528.0	498.0	420.0	238.0	0.0	PI C141
361 272.0	349.0	353.0	452.0	600.0	XN C141
366 732.0	736.0	846.0	956.0	960.0	XN C141
371 996.0	1000.0	1142.0	1292.0	1398.0	XN C141
376 1639.0	1643.0	1726.0	1730.0		XN C141
441 0.500	0.500	0.500	0.500	0.0	AKMTFC141

446	0.87252	0.87252	0.87252	0.0	MMTC141
451 0.0	0.0	0.0	0.684	0.595	MMTC141
456 0.446	0.446	0.760	0.360		MMTC141
461 0.0	0.0	0.0	0.0	0.0	CTOUC141
466 0.0	-1.0	1.0	1.0	0.0	CTOUC141
471 0.0	0.0	0.0	0.0	0.0	CTMXC141
476 0.0	0.0	0.0	0.0		CTMXC141
481-56.0	56.0	0.0	0.0	0.0	CTMLC141
486 0.0	0.0	0.0	0.0	0.0	CTMLC141
491 0.0	0.0	0.0	-1.0	1.0	CTMLC141
496 1.0	1.0	1.0	1.0		CTMLC141
561 1.0	0.0	0.0	1.0	0.0	MLKMC141
571 0.0	0.0	0.0	0.0	1.0	MLKMC141
601-8.6	-8.6	-8.6	-8.6	-8.6	PRFSC141
606-8.6	8.6	-8.6	-8.6	-8.6	PRFSC141
611-8.6	-8.6	-8.6	-8.6	-8.6	PRFSC141
616 0.0	0.0	0.0	0.0		PRFSC141
871 0.0	0.0	1.0	1.0	1.0	SCSTC141
826 1.0	1.0	1.0	0.0	0.0	SCSTC141
831 0.0	0.0	1.0	1.0	1.0	
836 0.0	0.0	0.0	1.0	0.0	
841 1.0	0.0	0.0	0.0	1.0	SCSTC141

846 1.0	1.0	1.0	1.0	1.0	1.0	SCSTC141
851 0.0	0.0	0.0	0.0	0.0	0.0	SCSTC141
856 1.0	0.0	0.0	1.0	1.0	1.0	SCSTC141
861 0.0	1.0	1.0	0.0	0.0	0.0	SCSTC141
871 0.0	0.0	109.4	109.4	1020.0	1020.0	SCSTC141
876 185.2	447.8	219.0	0.0	0.0	0.0	SCSTC141
881 0.0	0.0	968.6	153.8	1560.8	1560.8	SCSTC141
886 0.0	0.0	0.0	1356.8	0.0	0.0	SCSTC141
891 1411.0	0.0	0.0	0.0	910.2	910.2	SCSTC141
896 847.5	1218.0	1200.0	468.0	850.0	850.0	SCSTC141
901 0.0	0.0	0.0	0.0	0.0	0.0	SCSTC141
906 971.8	0.0	0.0	872.0	872.0	872.0	SCSTC141
911 0.0	882.4	872.0	0.0	0.0	0.0	SCSTC141
921 0.0	0.0	29.0	20.0	2.0	2.0	SCNTC141
926 51.0	29.0	40.0	2.0	0.0	0.0	SCNTC141
931 6.0	6.0	4.0	0.0	183.0	183.0	SCNTC141
936 0.0	0.0	0.0	0.0	0.0	0.0	SCNTC141
941 0.0	0.0	163.0	22.9	185.2	185.2	SCNTC141
946 0.0	0.0	0.0	0.0	108.5	108.5	SCNTC141
951 127.0	0.0	55.7	77.5	122.0	122.0	SCNTC141
956 0.0	0.0	0.0	0.0	6.050	6.050	SCNTC141
961 4.0	6.167	3.0	21.2	2.0	2.0	SCNTC141

966 12.2	1.0	0.0	0.0	0.0	0.0	521 C141
971 0.0	0.0	700.0	0.0	0.0	0.0	521 C141
976 841.0	2.0	712.5	0.0	0.0	0.0	521 C141
1001 648.76	734.0	958.0	0.0	0.0	61.0	521 C141
1006 255.0	0.0	0.0	0.0	0.0	0.0	521 C141
1011 0.0	0.0	1641.0	1728.0	0.0	0.0	521 C141
1016 297.0	1.0	0.0	0.0	0.0	0.0	521 C141
1021 0.0	0.0	0.0	0.0	0.0	0.0	521 C141
1026 354.75	351.0	0.0	28.0	28.0	28.0	521 C141
1031 130.0	991.77	998.0	1058.0	105.0	105.0	521 C141
1036 64.5	144.75	96.0				521 C141
1041 4.0	340.8	0.0	0.0	0.0	0.0	521 C141
1046 0.0	378.0	0.0	273.1	0.13	0.13	521 C141
2000						

SAMPLE TEST CASE FINAL OUTPUT
C-141A TRANSPORT

OUTPUT TABLES AND CONTROLS

FINAL OUTPUT MODULE

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for final output module
-	(13,0)	Output	-	Initial weight-empty balance summary
-	(13,0)	Output	-	Initial gross weight balance summary
-	(13,0)	Output	-	Final weight-empty balance summary
-	(13,0)	Output	-	Group weight statement
-	(13,0)	Output	-	Final gross weight balance summary
-	(13,0)	Output	-	Air vehicle dimensional and structural data

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT
C 141 TEST CASE

AUGUST 1973

•• OLAY00 - IP(40) •

•••• FINAL OUTPUT (OVERLAY 13) ••••

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INITIAL WEIGHT AND BALANCE DATA

	WEIGHT	HORIZ. ARM
WEIGHT EMPTY	127643.87	953.07
WING	31496.64	981.63
HORIZONTAL	3666.65	1846.85
VERTICAL	2171.05	1749.93
BODY	31127.77	1054.76
MAIN GEAR	6175.46	922.42
NOSE GEAR	851.99	356.38
SURFACE CONTROLS	3714.00	1121.80
ENGINE SECTION	6141.39	795.64
OTHER STRUCTURE	0.0	0.0
ENGINE	18759.00	774.10
ACCESSORY GEAR BOXES	0.0	0.0
AIR INDUCTION SYSTEM	832.92	698.99
AIR ACTUATION AND CONTROLS	0.0	0.0
EXHAUST SYSTEM	2577.00	845.67
COOLING AND DRAINS	144.00	803.90
LUBRICATING SYSTEM	212.00	840.80
FUEL SYSTEM	1380.00	953.40
ENGINE CONTROLS	236.00	666.20
STARTING SYSTEM	320.00	768.30
AUXILIARY POWER UNIT	554.00	844.70
INSTRUMENTS	1122.00	545.00
HYDRAULIC	1489.00	881.50
ELECTRICAL	2650.00	657.50
ELECTRONICS	2347.00	592.40
ARMAMENT	0.0	0.0
FURNISHING	3320.00	506.80
AIR CONDITIONING	2648.00	809.90
PHOTOGRAPHIC	0.0	0.0
AUXILIARY GEAR	95.00	1228.00
OTHER EQUIPMENT	113.00	300.00

INITIAL WEIGHT AND BALANCE DATA

USEFUL LOAD AND GROSS WEIGHT

LOAD CONDITION	MAXIMUM DESIGN WEIGHT	WEIGHT ARM	FLIGHT DESIGN GROSS WEIGHT	WEIGHT ARM	LANDING DESIGN GROSS WEIGHT	WEIGHT ARM
CREW (NO. 4.0)	860.0	351.20	860.0	351.30	860.0	351.30
FUEL						
UNUSABLE	2164.0	1001.90	2164.0	1001.90	2164.0	1001.90
INTERNAL	67640.0	858.00	65735.5	858.00	28090.0	858.00
	49040.0	1047.34	49040.0	1047.34	28090.0	1047.34
	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	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
402 OIL	416.0	753.61	416.0	753.61	416.0	753.61
FUSELAGE PAYLOAD	70000.0	887.00	70000.0	887.00	70000.0	887.00
WING PAYLOAD	0.0	0.0	0.0	0.0	0.0	0.0
ARMAMENT						
GUNS (QTY. 0.0)	0.0	0.0	0.0	0.0	0.0	0.0
AMMUNITION	0.0	0.0	0.0	0.0	0.0	0.0
INSTALLATIONS (PYLONS RACKS ETC.)						
WING	0.0	0.0	0.0	0.0	0.0	0.0
FUSELAGE	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
EQUIPMENT						
CXYGFH, LN2	0.0	0.0	0.0	0.0	0.0	0.0
MISCELLANEOUS	236.0	852.97	236.0	852.97	236.0	852.97
USEFUL LOAD	140316.0	916.55	188455.5	917.15	129855.9	913.29
WEIGHT EMPTY	127643.5	852.07	127643.5	852.07	127643.9	853.07
GROSS WEIGHT	267959.5	931.21	316099.8	931.65	257499.7	933.01

C F G R P W E I G H T S T A T E M E N T WEIGHT EMPTY

WING GROUP					32045.8
CENTER SECTION - BASIC STRUCTURE				2434.2	
OUTER PANEL - BASIC STRUCTURE (INCL. TIPS 39.9 LBS.)				25728.3	
PIVOT				0.0	
AILERONS				743.3	
FLAPS - TRAILING EDGE				2414.7	
FLAPS - LEADING EDGE				0.0	
SLATS				0.0	
SPOILERS				725.3	
MISCELLANEOUS				722.2	
HORIZONTAL TAIL GROUP					2330.1
CENTER SECTION/SPINDLE				0.0	
STABILIZER - BASIC STRUCTURE				1811.6	
ELEVATOR				518.6	
MISCELLANEOUS				45.7	
VERTICAL TAIL GROUP					2104.1
CENTER SECTION/SPINDLE				0.0	
FINS - BASIC STRUCTURE				1832.7	
RUDDER				271.5	
MISCELLANEOUS				61.3	
BODY GROUP					26567.5
FUSELAGE BASIC STRUCTURE				18880.8	
SECONDARY STRUCTURE - FUSELAGE				1069.0	
- DOORS, PANELS, AND MISC.				6597.8	
					9040.0

ALIGNING GEAR GROUP

LOCATION
 FUSELAGE - MAIN GEAR
 FUSELAGE - NOSE GEAR

WHEELS, FRAMES
 TIRES, TUBES
 3303.2
 317.1

STRUCTURE
 2224.0
 150.5

CONTROLS
 2823.1
 207.2

3714.0

ENGINE SECTION

INBOARD
 CENTER
 OUTBOARD

1898.5

3825.8

DOORS, PANELS, AND MISC.

1892.5

26.8

STRUCTURE - CIPPS AND MISC.

0.0

TOTAL (TO BE BROUGHT FORWARD)

79627.3

C O M P L E T E S T A T E M E N T WEIGHT EMPTY

PROPULSION GROUP			25239.5
ENGINE INSTALLATION		18759.0	
ACCESSORY GEAR BOXES AND DRIVES		0.0	
AIR INDUCTION SYSTEM		611.5	
STRUCTURE	611.5		
ACTUATION AND CONTROLS	0.0		
EXHAUST SYSTEM		3577.0	
COOLING SYSTEM AND HEAT PROVISIONS		144.0	
LUBRICATING SYSTEM		212.0	
FUEL SYSTEM		1380.0	
ENGINE CONTROLS		236.0	
STARTING SYSTEM		320.0	
AUXILIARY POWER PLANT GROUP		554.0	
INSTRUMENTS GROUP		1122.0	
HYDRAULICS AND PNEUMATICS GROUP		1489.0	
ELECTRICAL GROUP		2650.0	
ELECTRONICS GROUP		2347.0	
ARMAMENT GROUP		0.0	
FURNISHINGS AND EQUIPMENT GROUP		3320.0	
AIR CONDITIONING AND ANTI-ICING EQUIPMENT GROUP		2646.0	
PHOTOGRAPHIC GROUP		0.0	
AUXILIARY GEAR GROUP		95.0	
OTHER EQUIPMENT AND MISC.		113.0	
TOTAL FROM PREVIOUS PAGE		79627.3	
WEIGHT EMPTY		119204.7	

C A P T A I N W E I G H T S T A T E M E N T

USEFUL LOAD AND GROSS WEIGHT

LOAD CONDITION	MAXIMUM DESIGN WEIGHT	FLIGHT DESIGN GROSS WEIGHT	LANDING DESIGN GROSS WEIGHT
CREW (NO. 4.0)	WEIGHT ARM 840.0 351.30	WEIGHT ARM 840.0 351.30	WEIGHT ARM 840.0 351.30
FUEL			
UNUSABLE	2164.0 1001.90	2164.0 1001.90	2164.0 1001.90
INTERNAL	65739.9 858.00	65739.9 858.00	28090.0 858.00
	49040.0 1047.34	49040.0 1047.34	28090.0 1047.34
	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 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
OIL	416.0 753.61	416.0 753.61	416.0 753.61
FUSELAGE PAYLOAD	70000.0 887.00	70000.0 887.00	70000.0 887.00
WING PAYLOAD	0.0 0.0	0.0 0.0	0.0 0.0
ARMAMENT			
GUNS (QTY. 0.0)	0.0 0.0	0.0 0.0	0.0 0.0
AMMUNITION	0.0 0.0	0.0 0.0	0.0 0.0
INSTALLATIONS (PYLONS RACKS ETC.)			
WING	0.0 0.0	0.0 0.0	0.0 0.0
FUSELAGE	0.0 0.0	0.0 0.0	0.0 0.0
	0.0 0.0	0.0 0.0	0.0 0.0
EQUIPMENT			
OXYGEN, LNC	0.0 0.0	0.0 0.0	0.0 0.0
MISCELLANEOUS	236.0 852.97	236.0 852.97	236.0 852.97
USEFUL LOAD	188458.4 917.12	188458.4 917.12	129855.9 913.29
WEIGHT EMPTY	119204.7 922.14	119204.7 922.14	119204.7 922.14
GROSS WEIGHT	307663.7 919.08	307663.7 919.08	249060.6 917.53

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GROUP WEIGHT STATEMENT

WEIGHT EMPTY BALANCE DATA

	WEIGHT	HORIZ. ARM
WEIGHT EMPTY	119204.75	922.14
WING	32045.82	951.67
HORIZONTAL	2330.15	1842.55
VERTICAL	2104.13	1739.51
FLY	26567.52	975.22
MAIN GEAR	8365.26	991.77
NOSE GEAR	674.77	354.75
SURFACE CONTROLS	3714.00	1121.80
ENGINE SECTION	3625.76	806.47
OTHER STRUCTURE	0.0	0.0
ENGINE	18759.00	774.10
ACCESSORY GEAR BOXES	0.0	0.0
AIR INDUCTION SYSTEM	611.50	679.91
AIS ACTUATION AND CONTROLS	0.0	0.0
EXHAUST SYSTEM	3577.00	845.67
COOLING AND DRAINS	144.00	803.90
LUBRICATING SYSTEM	212.00	840.80
FUEL SYSTEM	1360.00	953.40
ENGINE CONTROLS	236.00	666.20
STARTING SYSTEM	320.00	768.30
AUXILIARY POWER UNIT	554.00	844.70
INSTRUMENTS	1122.00	545.00
HYDRAULIC	1489.00	881.90
ELECTRICAL	2650.00	657.50
ELECTRONICS	2347.00	552.40
ARMAMENT	0.0	0.0
FURNISHINGS	3320.00	556.80
AIR CONDITIONING	2648.00	809.90
PHOTOGRAPHIC	0.0	0.0
AUXILIARY GEAR	95.00	1228.00
OTHER EQUIPMENT	113.00	300.00

C O O P F L I G H T S T A T I M E N T

D I M E N S I O N A L A N D S T R U C T U R A L D A T A

LENGTH - OVERALL (FT.) 141.52 HEIGHT - OVERALL - STATIC (FT.) 36.55
 LENGTH - MAX. (FT.)
 DEPTH - MAX. (FT.)
 WIDTH - MAX. (FT.)
 WETTED AREA (SQ. FT.)
 FUSELAGE VOLUME (CU. FT.)

FUSELAGE	WING	H. TAIL	V. TAIL	NACELLES CENTER	CUTBOARD
132.26	3002.83	483.00	416.00		16.60
14.17	10.67	4.62	5.06		5.50
14.17	159.95	50.35	22.72		5.50
4672.75	25.92	25.00	35.00		277.19
16020.56	317.87	168.08	273.11		
	51.90	17.65	35.50		
	132.70	62.17	166.30		
	13.27	6.53	21.62		

GROSS AREA (SQ. FT.)
 WEIGHT/GROSS AREA (LBS./SQ. FT.)
 SPAN (FT.)
 SWEEPBACK - AT .25C (DEGREES)
 THEORETICAL ROOT CHORD - LENGTH (INCHES)
 - MAX. THICKNESS (INCHES)
 THEORETICAL TIP CHORD - LENGTH (INCHES)
 - MAX. THICKNESS (INCHES)
 TAIL LENGTH - .25 MAC WING TO .25 MAC H. TAIL (FT.)

WING	H. TAIL	V. TAIL
3002.83	483.00	416.00
10.67	4.62	5.06
159.95	50.35	22.72
25.92	25.00	35.00
317.87	168.08	273.11
51.90	17.65	35.50
132.70	62.17	166.30
13.27	6.53	21.62

ALIGHTING GEAR
 LENGTH - GLEO EXTENDED - AXLE TO TRUNNION (INCHES)
 GLEO TRAVEL - FULL EXTENDED TO FULL COLLAPSED (INCHES)

NGSF	MAIN
41.50	61.70
12.00	26.00

STRUCTURAL DATA - CONDITION
 FLIGHT
 LANDING
 TAKE-OFF
 LIMIT AIRPLANE LANDING SINK SPEED (FT./SEC.)
 WING LIFT ASSUMED FOR LANDING DESIGN CONDITION (PERCENT WT.)
 STALL SPEED - LANDING CONFIGURATION - POWER OFF (KNOTS)
 PRESSURIZED CABIN - ALT. DESIGN PRESSURE DIFFERENTIAL - FLIGHT (P.S.I)

STRESS	LIMIT LOAD
GROSS WEIGHT	FACTOR
316099.81	2.50
257499.75	
317599.87	
	10.00
	100.00
	103.00
	16.47

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA

IP	Overlay	Module	Subroutine	Description
1	(1,0)	Executive	↑ READ ↓	Case title and control card data
1	(1,0)	Executive		Permanent loads data DT array
1	(1,0)	Executive		Permanent loads data DB array
1	(1,0)	Executive		Permanent loads data DF array
1	(1,0)	Executive		Permanent loads data DP array
1	(1,0)	Executive		Permanent loads data DS array
1	(1,0)	Executive		Permanent loads data DE array
1	(1,0)	Executive		Permanent loads data DI array
1	(1,0)	Executive		Permanent loads data DG array
1	(1,0)	Executive		Permanent loads data DR array
1	(1,0)	Executive		Permanent wing, H-tail, and V-tail data
1	(1,0)	Executive	READ	Permanent fuselage data

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA (CONT)

IP	Overlay	Module	Subroutine	Description
1	(1,0)	Executive	↑ READ ↓	Permanent landing gear data
1	(1,0)	Executive		Permanent air induction system data
1	(1,0)	Executive		Permanent vibration, flutter, and temperature data
1	(1,0)	Executive		Permanent general data
1	(1,0)	Executive		Air foil data
1	(1,0)	Executive		GJ data
1	(1,0)	Executive		Material library data material No. 1
1	(1,0)	Executive		Material library data material No. 2
1	(1,0)	Executive		Material library data material No. 3
1	(1,0)	Executive		Material library data material No. 4
1	(1,0)	Executive		Material library data material No. 5
1	(1,0)	Executive		Material library data material No. 6
1	(1,0)	Executive	READ	Material library data material No. 7

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA (CONT)

IP	Overlay	Module	Subroutine	Description
1	(1,0)	Executive	↑ READ	Material library data material No. 8
1	(1,0)	Executive		Material library data material No. 9
1	(1,0)	Executive		Material library data material No. 10
1	(1,0)	Executive		Material library data material No. 11
1	(1,0)	Executive		Material library data material No. 12
1	(1,0)	Executive		Material library data material No. 13
1	(1,0)	Executive		Material library data material No. 14
1	(1,0)	Executive		Material library data material No. 15
1	(1,0)	Executive		Material library data material No. 16
1	(1,0)	Executive		Material library data material No. 17
2	(1,0)	Executive	↓ READ	Input general data
2	(1,0)	Executive		Input fatigue data
2	(1,0)	Executive		Input landing gear data

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA (CONCL)

IP	Overlay	Module	Subroutine	Description
2	(1,0)	Executive	↑ READ ↓	Input air induction system data
2	(1,0)	Executive		Input wing data
2	(1,0)	Executive		Input horizontal tail data
2	(1,0)	Executive		Input vertical tail data
2	(1,0)	Executive		Input fuselage data
2	(1,0)	Executive		Input wing, horizontal tail and vertical tail loads data
2	(1,0)	Executive		Input fuselage loads data
2	(1,0)	Executive	READ	Input inertia data

*** PERMANENT DATA (PRINT IN CASE 1 WHEN IP(1) IS 0) ***

*** LUAN'S ARRAY DT(56) - - RECORD 1 ***

1	0.	0.	0.	0.	0.
6	.25000000E+00	.38300000E+00	.70700000E+00	.92400000E+00	.60000000E+00
11	.40000000E+00	.50000000E+00	.10000000E+01	.20000000E+00	.10500000E+01
16	.11000000E+01	.90000000E+00	.95000000E+00	.10000000E+01	.35000000E+01
21	.10000000E+01	.11500000E+01	.12000000E+01	.20000000E+01	.35800000E+00
31	0.	.87800000E+00	.64500000E+00	.50000000E+00	.39000000E+00
36	.52000000E+00	0.	.33000000E+00	.33800000E+00	.58000000E+00
41	.58000000E+00	.56000000E+00	.57400000E+00	.58000000E+00	.23000000E+00
46	.23000000E+00	.58000000E+00	.58000000E+00	.58000000E+00	.43000000E+00
51	.44200000E+00	.24500000E+00	.31300000E+00	.39500000E+00	.45000000E+00
56	.45000000E+00	.44800000E+00	.45000000E+00	.45000000E+00	0.

*** LOADS ARRAY NR(153) - - RECORD 2 ***

1	0.	15000000E+02	30000000E+02	45000000E+02	60000000E+02
6	75000000E+02	15000000E+01	25000000E+01	35000000E+01	45000000E+01
11	60000000E+01	40000000E+01	10000000E+02	13550000E+01	13400000E+01
16	13250000E+01	13100000E+01	13000000E+01	12950000E+01	14050000E+01
21	13600000E+01	13520000E+01	13220000E+01	13100000E+01	12980000E+01
26	14500000E+01	14050000E+01	13720000E+01	13400000E+01	13120000E+01
31	13010000E+01	14800000E+01	14300000E+01	13870000E+01	13500000E+01
36	13140000E+01	13040000E+01	15200000E+01	14570000E+01	14000000E+01
41	13550000E+01	13160000E+01	13060000E+01	15800000E+01	14930000E+01
46	14200000E+01	14600000E+01	13180000E+01	13080000E+01	16100000E+01
51	15200000E+01	14350000E+01	13700000E+01	13200000E+01	13100000E+01
56	13070000E+01	13000000E+01	12860000E+01	12650000E+01	12320000E+01
61	11400000E+01	13320000E+01	13020000E+01	12780000E+01	12400000E+01
66	11750000E+01	10700000E+01	13460000E+01	13050000E+01	12670000E+01
71	12150000E+01	11350000E+01	10200000E+01	13600000E+01	13070000E+01
76	12600000E+01	12000000E+01	11000000E+01	10000000E+01	13820000E+01
81	13100000E+01	12500000E+01	11800000E+01	10800000E+01	97000000E+00
86	14000000E+01	13120000E+01	12320000E+01	11400000E+01	10450000E+01
91	94000000E+00	14200000E+01	13150000E+01	12200000E+01	11200000E+01
96	10050000E+01	88000000E+00	12900000E+01	12800000E+01	12650000E+01
101	12420000E+01	11830000E+01	10350000E+01	12910000E+01	12700000E+01
106	12400000E+01	11850000E+01	11000000E+01	94500000E+00	12920000E+01
111	12550000E+01	12000000E+01	11400000E+01	10300000E+01	86000000E+00
116	12930000E+01	12400000E+01	11800000E+01	11000000E+01	97000000E+00
121	78500000E+00	12960000E+01	12300000E+01	11500000E+01	10500000E+01
126	91500000E+00	71000000E+00	13000000E+01	12100000E+01	11200000E+01
131	10100000E+01	86000000E+00	60500000E+00	13050000E+01	12000000E+01
136	10900000E+01	95000000E+00	77000000E+00	52000000E+00	12670000E+01
141	12520000E+01	12250000E+01	11900000E+01	10900000E+01	89000000E+00
146	12500000E+01	12120000E+01	11630000E+01	10900000E+01	96000000E+00
151	75000000E+00	12350000E+01	11800000E+01	11070000E+01	10100000E+01
156	88000000E+00	70000000E+00	12150000E+01	11450000E+01	10600000E+01
161	94500000E+00	80500000E+00	61000000E+00	11850000E+01	11000000E+01
166	10020000E+01	88500000E+00	74000000E+00	55000000E+00	11670000E+01
171	10670000E+01	94500000E+00	81000000E+00	66000000E+00	46000000E+00
176	11400000E+01	10250000E+01	89200000E+00	74500000E+00	57500000E+00

181	.3500000E+00	.1220000E+01	.12070000E+01	.1200000E+01	.1200000E+01
186	.1201000E+01	.1210000E+01	.12350000E+01	.12700000E+01	.1212000E+01
191	.1212000E+01	.1215000E+01	.12300000E+01	.12400000E+01	.1227000E+01
194	.1221000E+01	.1225000E+01	.12300000E+01	.12450000E+01	.1250000E+01
201	.1240000E+01	.1232000E+01	.12300000E+01	.12450000E+01	.1260000E+01
206	.1260000E+01	.1257000E+01	.12500000E+01	.12450000E+01	.1250000E+01
211	.1270000E+01	.1270000E+01	.12700000E+01	.1273000E+01	.1275000E+01
216	.1290000E+01	.1300000E+01	.12650000E+01	.1265000E+01	.1265000E+01
221	.1270000E+01	.1240000E+01	.12950000E+01	.1185000E+01	.1180000E+01
224	.1180000E+01	.1180000E+01	.11750000E+01	.1150000E+01	.1185000E+01
231	.1180000E+01	.1180000E+01	.11800000E+01	.1175000E+01	.1150000E+01
236	.1184000E+01	.1180000E+01	.11800000E+01	.1170000E+01	.1166000E+01
241	.1135000E+01	.1183000E+01	.11800000E+01	.1190000E+01	.1170000E+01
246	.1166000E+01	.1135000E+01	.1182000E+01	.1180000E+01	.1180000E+01
251	.1165000E+01	.1155000E+01	.1120000E+01	.1181000E+01	.1180000E+01
256	.1180000E+01	.1165000E+01	.1155000E+01	.1120000E+01	.1177000E+01
261	.1176000E+01	.1175000E+01	.1160000E+01	.1150000E+01	.1110000E+01
266	.1180000E+01	.1180000E+01	.1180000E+01	.1175000E+01	.1165000E+01
271	.1140000E+01	.1180000E+01	.1180000E+01	.1175000E+01	.1162000E+01
276	.1150000E+01	.1112000E+01	.1140000E+01	.1170000E+01	.1165000E+01
281	.1150000E+01	.1140000E+01	.1090000E+01	.1170000E+01	.1165000E+01
286	.1160000E+01	.1145000E+01	.1120000E+01	.1080000E+01	.1160000E+01
291	.1160000E+01	.1150000E+01	.1132000E+01	.1100000E+01	.1055000E+01
296	.1155000E+01	.1155000E+01	.1150000E+01	.1120000E+01	.1090000E+01
301	.1035000E+01	.1145000E+01	.1140000E+01	.1130000E+01	.1105000E+01
306	.1070000E+01	.1005000E+01	.1175000E+01	.1170000E+01	.1170000E+01
311	.1168000E+01	.1160000E+01	.1135000E+01	.1170000E+01	.1165000E+01
316	.1162000E+01	.1155000E+01	.1135000E+01	.1070000E+01	.1165000E+01
321	.1160000E+01	.1155000E+01	.1142000E+01	.1110000E+01	.1020000E+01
326	.1152000E+01	.1150000E+01	.1145000E+01	.1120000E+01	.1080000E+01
331	.9700000E+00	.1140000E+01	.1140000E+01	.1130000E+01	.1105000E+01
336	.1045000E+01	.9200000E+00	.1120000E+01	.1120000E+01	.1117000E+01
341	.1080000E+01	.1010000E+01	.8900000E+00	.1112000E+01	.1112000E+01
346	.1098000E+01	.1060000E+01	.9800000E+00	.8450000E+00	.8550000E+00
351	.8620000E+00	.8700000E+00	.8700000E+00	.8700000E+00	.8750000E+00
356	.8250000E+00	.8420000E+00	.8500000E+00	.8600000E+00	.8680000E+00
361	.8740000E+00	.8000000E+00	.8250000E+00	.8400000E+00	.8600000E+00
366	.8650000E+00	.8720000E+00	.7800000E+00	.8050000E+00	.8300000E+00
371	.8500000E+00	.8600000E+00	.8700000E+00	.7500000E+00	.7850000E+00

376	.M1000000E+00	.84000000E+00	.R5400000F+00	.86800000E+00	.72000000E+00
381	.76600000E+00	.80000000E+00	.A3000000F+00	.85500000E+00	.86700000E+00
386	.70000000E+00	.74000000E+00	.77500000F+00	.81000000E+00	.A4200000E+00
391	.46500000E+00	.88000000E+00	.R9000000F+00	.90000000E+00	.91500000E+00
396	.93500000E+00	.97000000E+00	.A7500000F+00	.8A700000E+00	.90300000E+00
401	.92000000E+00	.95000000E+00	.99800000F+00	.8A000000E+00	.88400000E+00
406	.90700000E+00	.92700000E+00	.96000000F+00	.10100000E+01	.95000000E+00
411	.88000000E+00	.91000000E+00	.94000000E+00	.99000000E+00	.10450000E+01
416	.84000000E+00	.A7600000E+00	.91300000F+00	.95000000E+00	.10000000E+01
421	.10700000E+01	.83000000E+00	.A7300000F+00	.91700000E+00	.96000000E+00
426	.10150000E+01	.10400000E+01	.A1500000F+00	.87000000E+00	.92000000E+00
431	.47000000E+00	.10300000E+01	.11000000F+01	.89000000E+00	.90000000E+00
436	.90500000E+00	.92000000E+00	.95500000E+00	.10300000E+01	.89000000E+00
441	.90000000E+00	.92200000E+00	.95500000F+00	.10050000E+01	.10850000E+01
446	.89000000E+00	.91000000E+00	.94000000E+00	.98000000E+00	.10300000E+01
451	.11100000E+01	.89000000E+00	.92000000F+00	.95500000E+00	.99500000E+00
456	.10550000E+01	.11500000F+01	.A9000000F+00	.93000000E+00	.97000000E+00
461	.10150000E+01	.10A50000F+01	.11450000F+01	.89000000E+00	.93500000E+00
466	.9A500000E+00	.10400000E+01	.11100000F+01	.12300000E+01	.89000000E+00
471	.94500000E+00	.10000000E+01	.10700000F+01	.11550000E+01	.12600000E+01
476	.91000000E+00	.91000000E+00	.92000000F+00	.95000000E+00	.10000000E+01
481	.11300000E+01	.92000000E+00	.94000000F+00	.97000000E+00	.10100000E+01
486	.10400000E+01	.12150000E+01	.93500000E+00	.96000000E+00	.99500000E+00
491	.10550000E+01	.11300000E+01	.12500000E+01	.94700000E+00	.98500000E+00
496	.10300000E+01	.10900000E+01	.11650000F+01	.12A50000E+01	.96000000E+00
501	.10050000E+01	.10600000E+01	.11200000E+01	.12000000E+01	.13100000E+01
506	.98000000E+00	.10300000E+01	.10900000F+01	.11600000E+01	.12500000E+01
511	.13500000E+01	.99000000E+00	.10500000F+01	.11150000E+01	.11950000E+01
516	.12900000E+01	.14000000E+01	.39000000E+00	.41500000E+00	.42000000E+00
521	.43800000E+00	.44500000E+00	.42000000F+00	.34000000E+00	.36700000E+00
526	.39000000F+00	.40200000E+00	.41000000F+00	.40000000E+00	.30500000E+00
531	.34000000E+00	.36700000E+00	.3A200000F+00	.39500000E+00	.39000000E+00
536	.28500000E+00	.31800000E+00	.34700000E+00	.36500000E+00	.38000000E+00
541	.38000000E+00	.25200000E+00	.29000000F+00	.32000000E+00	.35000000E+00
546	.36200000E+00	.36000000E+00	.20000000F+00	.24500000E+00	.28800000E+00
551	.31200000E+00	.34000000E+00	.34000000E+00	.20700000E+00	.25000000E+00
556	.29200000E+00	.31600000E+00	.34200000F+00	.35000000E+00	.46500000E+00
561	.48000000E+00	.48500000E+00	.49500000F+00	.51500000E+00	.60000000E+00
566	.46400000E+00	.48300000E+00	.49500000F+00	.52000000E+00	.57000000E+00

571	.66000000E+00	.46200000E+00	.48500000E+00	.50000000E+00	.54000000E+00
576	.60500000E+00	.73000000E+00	.46000000E+00	.48000000E+00	.51000000E+00
581	.56000000E+00	.63000000E+00	.75000000E+00	.46200000E+00	.49000000E+00
586	.53000000E+00	.59000000E+00	.67500000E+00	.80000000E+00	.46400000E+00
591	.50000000E+00	.55000000E+00	.62500000E+00	.73000000E+00	.88500000E+00
596	.46500000E+00	.51000000E+00	.56500000E+00	.64000000E+00	.76000000E+00
601	.93500000E+00	.48500000E+00	.49000000E+00	.49500000E+00	.50200000E+00
606	.53500000E+00	.65000000E+00	.48500000E+00	.49200000E+00	.51000000E+00
611	.55000000E+00	.60500000E+00	.71000000E+00	.49000000E+00	.51000000E+00
616	.54500000E+00	.59200000E+00	.67500000E+00	.82000000E+00	.50000000E+00
621	.53000000E+00	.70000000E+00	.62000000E+00	.71000000E+00	.87000000E+00
626	.51500000E+00	.55000000E+00	.60000000E+00	.66500000E+00	.76000000E+00
631	.91000000E+00	.53700000E+00	.58000000E+00	.64000000E+00	.71000000E+00
636	.81500000E+00	.96000000E+00	.55000000E+00	.61000000E+00	.68000000E+00
641	.74000000E+00	.87000000E+00	.10200000E+01	.50000000E+00	.50000000E+00
646	.51000000E+00	.53000000E+00	.57000000E+00	.70000000E+00	.51000000E+00
651	.52000000E+00	.55000000E+00	.59000000E+00	.66000000E+00	.85500000E+00
656	.52500000E+00	.55300000E+00	.59000000E+00	.64500000E+00	.74500000E+00
661	.94000000E+00	.55000000E+00	.58000000E+00	.62500000E+00	.69000000E+00
666	.80000000E+00	.99000000E+00	.58000000E+00	.62000000E+00	.68000000E+00
671	.75500000E+00	.87500000E+00	.10700000E+01	.61000000E+00	.66500000E+00
676	.73000000E+00	.82500000E+00	.94000000E+00	.11600000E+01	.64200000E+00
681	.70000000E+00	.78000000E+00	.85000000E+00	.10300000E+01	.12700000E+01
686	.33500000E-01	.34200000E-01	.84800000E+00	.34800000E-01	.31500000E-01
691	.22500000E-01	.47300000E-01	.48400000E-01	.48200000E-01	.46200000E-01
696	.39500000E-01	.23100000E-01	.57400000E-01	.58400000E-01	.57200000E-01
701	.52500000E-01	.42500000E-01	.23700000E-01	.64299900E-01	.65000000E-01
706	.62800000E-01	.56900000E-01	.45300000E-01	.24400000E-01	.72000000E-01
711	.72700000E-01	.69400000E-01	.61500000E-01	.47500000E-01	.26500000E-01
716	.78699900E-01	.78800000E-01	.74500000E-01	.64500000E-01	.49300000E-01
721	.27200000E-01	.84700000E-01	.84000000E-01	.77999000E-01	.67000000E-01
726	.50500000E-01	.27800000E-01	.34800000E-01	.35000000E-01	.35000000E-01
731	.35000000E-01	.31500000E-01	.20500000E-01	.49800000E-01	.50000000E-01
736	.49200000E-01	.46500000E-01	.38000000E-01	.21700000E-01	.60000000E-01
741	.60500000E-01	.58500000E-01	.52700000E-01	.42000000E-01	.22900000E-01
746	.67600000E-01	.67300000E-01	.63800000E-01	.56800000E-01	.43900000E-01
751	.24200000E-01	.76000000E-01	.75000000E-01	.70200000E-01	.61000000E-01
756	.44500000E-01	.26000000E-01	.82800000E-01	.81000000E-01	.75000000E-01
761	.64699900E-01	.49000000E-01	.26800000E-01	.88000000E-01	.86000000E-01

766
771
776
781
786
791
796
801
806
811
816
821
826
831
836
841
846
851

.79600000E-01
.35000000E-01
.50000000E-01
.20900000E-01
.40000000E-01
.54600000E-01
.68000000E-01
.80000000E-01
.87800000E-01
.24800000E-01
.28000000E-01
.41500000E-01
.53500000E-01
.63000000E-01
.73000000E-01
.21500000E-01
.42500000E-01
.61500000E-01

.67700000E-01
.34800000E-01
.50000000E-01
.60000000E-01
.21900000E-01
.41800000E-01
.58500000E-01
.72500000E-01
.84500000E-01
.34700000E-01
.18500000E-01
.34000000E-01
.47500000E-01
.58400000E-01
.70200000E-01
.79500000E-01
.22800000E-01
.45000000E-01

.50500000E-01
.33800000E-01
.48400000E-01
.59800000E-01
.67899900E-01
.22800000E-01
.44000000E-01
.61500000E-01
.75500000E-01
.34600000E-01
.48500000E-01
.19200000E-01
.37000000E-01
.50500000E-01
.64500000E-01
.76000000E-01
.84000000E-01
.24000000E-01

.27500000E-01
.30000000E-01
.45000000E-01
.57000000E-01
.66900000E-01
.76000000E-01
.23600000E-01
.45000000E-01
.63000000E-01
.34000000E-01
.48000000E-01
.58200000E-01
.19800000E-01
.38500000E-01
.54500000E-01
.68500000E-01
.80499900E-01
0.

.35000000E-01
.20000000E-01
.37000000E-01
.51000000E-01
.62800000E-01
.73999900E-01
.82999900E-01
.24200000E-01
.46000000E-01
.32200000E-01
.45800000E-01
.56800000E-01
.65000000E-01
.20500000E-01
.40500000E-01
.57500000E-01
.73200000E-01
0.

*** LOADS ARRAY OF (146) - - RECORD 3 ***

1	0.	.100000000F+00	.300000000F+00	.650000000E+00	.100000000E+01
6	0.	.575000000E+00	.450000000E+00	.373000000E+00	.333000000E+00
11	0.	.100000000E+00	.655000000F+00	.902000000E+00	.100000000E+01
16	0.	.100000000E+00	.300000000E+00	.400000000E+00	.500000000E+00
21	0.	.600000000E+00	.800000000E+00	.900000000E+00	.100000000E+01
26	0.	.500000000E+00	.200000000E+00	.300000000E+00	.400000000E+00
31	0.	.100000000E+00	.700000000E+00	.800000000E+00	.900000000E+00
36	0.	.120000000E+00	.410000000E+00	.216000000E+00	.164000000E+00
41	0.	.320000000E+01	.520000000E+01	.400000000E+01	.400000000E+01
46	0.	.336000000E+00	.788000000E+00	.776000000E+00	.540000000E+00
51	0.	.720000000E+01	.190000000E+00	.140000000E+00	.100000000E+00
56	0.	.930000000E+00	.424000000E+00	.964000000E+00	.970000000E+00
61	0.	.160000000E+00	.720000000E+01	.308000000E+00	.220000000E+00
66	0.	.105200000E+01	.920000000F+00	.604000000E+00	.106800000E+01
71	0.	.304000000E+00	.150000000E+00	.960000000E+01	.400000000E+00
76	0.	.112000000E+01	.110800000E+01	.104000000E+01	.948000000E+00
81	0.	.640000000E+00	.300000000E+00	.200000000E+00	.120000000E+00
86	0.	.102800000E+01	.117600000E+01	.117000000E+01	.111600000E+01
91	0.	.160000000E+00	.586000000E+00	.396000000E+00	.268000000E+00
96	0.	.115000000E+01	.123200000F+01	.123000000E+01	.120000000E+01
101	0.	.350000000E+00	.990000000F+00	.852000000E+00	.600000000E+00
106	0.	.122000000E+01	.112000000F+01	.124000000E+01	.124000000E+01
111	0.	.400000000E+00	.280000000E+00	.105000000E+01	.940000000E+00
116	0.	.125000000E+01	.122000000E+01	.117000000E+01	.125000000E+01
121	0.	.480000000E+00	.736000000F+00	.460000000E+00	.108000000E+01
126	0.	.124000000E+01	.122000000E+01	.120800000E+01	.117200000E+01
131	0.	.100000000E+01	.900000000E+00	.768000000E+00	.588000000E+00
136	0.	.109200000E+01			
141	0.				

*** LOADS ARRAY NP(734) - - RFCURD 4 ***

1	.2000000E+01	.3000000E+01	.4000000E+01	.6000000E+01	.1200000E+02
6	.4000000E+00	.6000000E+00	.8000000E+00	.1000000E+01	.1300000E+01
11	.2000000E+01	.3000000E+01	.5000000E+01	.1200000E+02	.1392000E+01
16	.1400000E+01	.2256000E+01	.2536000E+01	.2700000E+01	.3050000E+01
21	.3325000E+01	.3475000E+01	.3675000E+01	.9150000E+00	.1260000E+01
26	.1500000E+01	.1700000E+01	.1842000E+01	.2056000E+01	.2260000E+01
31	.2375000E+01	.2520000E+01	.7080000E+00	.9400000E+00	.1130000E+01
34	.1275000E+01	.1388000E+01	.1536000E+01	.1670000E+01	.1776000E+01
41	.1900000E+01	.4550000E+00	.6260000E+00	.7580000E+00	.8500000E+00
46	.9230000E+00	.1026000E+01	.1105000E+01	.1190000E+01	.1270000E+01
51	.2240000E+00	.3100000E+00	.3780000E+00	.4250000E+00	.4620000E+00
56	.5150000E+00	.5500000E+00	.5920000E+00	.6330000E+00	.1100000E+01
61	.1510000E+01	.1610000E+01	.2040000E+01	.2155000E+01	.2295000E+01
66	.2435000E+01	.2605000E+01	.2760000E+01	.7530000E+00	.1004000E+01
71	.1200000E+01	.1352000E+01	.1480000E+01	.1650000E+01	.1776000E+01
76	.1900000E+01	.2020000E+01	.5450000E+00	.7460000E+00	.9020000E+00
81	.1020000E+01	.1105000E+01	.1235000E+01	.1330000E+01	.1420000E+01
86	.1515000E+01	.3530000E+00	.4900000E+00	.6000000E+00	.6800000E+00
91	.7380000E+00	.8250000E+00	.8880000E+00	.9480000E+00	.1008000E+01
96	.1900000E+00	.2600000E+00	.3100000E+00	.3380000E+00	.3700000E+00
101	.4100000E+00	.4430000E+00	.4750000E+00	.5100000E+00	.9100000E+00
106	.1256000E+01	.1510000E+01	.1700000E+01	.1800000E+01	.1910000E+01
111	.2025000E+01	.2170000E+01	.2330000E+01	.6030000E+00	.8280000E+00
116	.1005000E+01	.1134000E+01	.1224000E+01	.1372000E+01	.1476000E+01
121	.1580000E+01	.1685000E+01	.4620000E+00	.6350000E+00	.7550000E+00
126	.4500000E+00	.9200000E+00	.1025000E+01	.1110000E+01	.1188000E+01
131	.1260000E+01	.2960000E+00	.4100000E+00	.5030000E+00	.5680000E+00
136	.6150000E+00	.6860000E+00	.7400000E+00	.7920000E+00	.8400000E+00
141	.1380000E+00	.2000000E+00	.2550000E+00	.2820000E+00	.3080000E+00
146	.3430000E+00	.3680000E+00	.3950000E+00	.4200000E+00	.7320000E+00
151	.9750000E+00	.1150000E+01	.1272000E+01	.1384000E+01	.1540000E+01
156	.1660000E+01	.1776000E+01	.1895000E+01	.4480000E+00	.6200000E+00
161	.7520000E+00	.6500000E+00	.9300000E+00	.1030000E+01	.1111000E+01
166	.1190000E+01	.1255000E+01	.3380000E+00	.4680000E+00	.5700000E+00
171	.6400000E+00	.6900000E+00	.7700000E+00	.8350000E+00	.8900000E+00
176	.9350000E+00	.2130000E+00	.3020000E+00	.3730000E+00	.4250000E+00

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381	•10700000E+01	•10200000E+01	•10100000F+01	•83500000E+00	•98000000E+00
386	•10320000E+01	•10720000E+01	•99000000F+00	•89200000E+00	•82000000E+00
391	•77000000E+00	•76500000E+00	•71300000F+00	•82600000E+00	•87600000E+00
396	•90000000E+00	•80000000E+00	•67000000E+00	•61400000E+00	•59000000E+00
401	•58800000E+00	•55000000E+00	•66200000F+00	•70000000E+00	•71500000E+00
406	•59200000E+00	•45000000E+00	•41000000F+00	•39200000E+00	•38800000E+00
411	•33000000E+00	•43000000E+00	•42000000F+00	•49000000E+00	•30500000E+00
416	•22500000E+00	•20200000E+00	•19800000F+00	•19400000E+00	•12400000E+01
421	•14400000E+01	•14480000E+01	•14300000F+01	•13950000E+01	•13250000E+01
426	•12450000E+01	•11600000E+01	•10650000F+01	•96500000E+00	•11260000E+01
431	•12020000E+01	•12500000E+01	•11800000F+01	•10800000E+01	•10100000E+01
436	•94000000E+00	•89000000E+00	•78300000F+00	•94300000E+00	•10120000E+01
441	•10450000E+01	•96500000E+00	•86000000E+00	•79600000E+00	•75600000E+00
446	•73500000E+00	•58600000E+00	•73500000E+00	•80400000E+00	•82000000E+00
451	•72500000E+00	•58000000E+00	•53000000F+00	•50800000E+00	•50500000E+00
456	•35500000E+00	•47000000E+00	•54000000F+00	•56000000E+00	•39000000E+00
461	•28700000E+00	•26400000E+00	•25500000E+00	•25200000E+00	•13800000E+01
466	•14480000E+01	•14790000E+01	•14700000F+01	•14000000E+01	•13200000E+01
471	•12450000E+01	•11600000E+01	•11100000F+01	•10100000E+01	•12100000E+01
476	•13080000E+01	•13640000E+01	•12680000F+01	•11800000E+01	•11000000E+01
481	•10280000E+01	•97000000E+00	•80000000F+00	•99500000E+00	•11000000E+01
486	•11350000E+01	•10600000F+01	•97500000F+00	•90200000E+00	•85000000E+00
491	•80700000E+00	•58500000E+00	•76000000E+00	•86000000E+00	•89000000E+00
496	•79600000E+00	•66400000E+00	•60800000E+00	•58500000E+00	•57800000E+00
501	•40000000E+00	•51200000E+00	•58000000E+00	•60200000E+00	•45000000E+00
506	•33000000E+00	•30200000E+00	•29200000E+00	•28800000E+00	•13900000E+01
511	•14900000E+01	•15200000E+01	•15120000E+01	•14800000E+01	•14480000E+01
516	•14220000E+01	•13800000E+01	•13250000E+01	•11430000E+01	•13350000E+01
521	•14120000E+01	•14040000E+01	•13500000F+01	•12520000E+01	•11860000E+01
526	•11250000E+01	•10730000E+01	•88000000F+00	•10930000E+01	•12150000E+01
531	•12500000E+01	•11850000E+01	•10850000F+01	•10050000E+01	•94200000E+00
536	•89500000E+00	•62200000E+00	•81300000F+00	•93000000E+00	•98000000E+00
541	•88800000E+00	•77000000E+00	•70500000F+00	•68000000E+00	•66800000E+00
546	•39000000E+00	•52500000E+00	•61500000E+00	•65400000E+00	•52000000E+00
551	•38500000E+00	•35200000E+00	•34200000F+00	•33500000E+00	•59600000E+00
556	•65200000E+00	•69600000E+00	•70800000F+00	•42500000E+00	•30000000E+00
561	•27000000E+00	•27000000E+00	•27000000E+00	•49500000E+00	•53200000E+00
566	•55600000E+00	•56000000E+00	•32000000F+00	•23000000E+00	•20500000E+00
571	•20500000E+00	•20500000E+00	•43200000F+00	•46400000E+00	•48000000E+00
576	•44000000E+00	•24600000E+00	•18000000F+00	•14000000E+00	•16000000E+00

581	.16000000E+00	.31000000E+00	.37500000E+00	.38700000E+00	.39000000E+00
586	.15800000E+00	.11800000E+00	.10800000F+00	.10000000E+00	.10000000E+00
591	.20200000E+00	.35600000E+00	.27500000E+00	.27500000E+00	.77999000E-01
596	.60000000E-01	.57000000E-01	.50000000F-01	.50000000E-01	.81000000E+00
601	.79400000E+00	.78000000E+00	.76000000E+00	.72500000E+00	.63500000E+00
606	.53300000E+00	.49000000E+00	.45000000F+00	.80000000E+00	.79000000E+00
611	.77000000E+00	.73000000E+00	.69200000F+00	.53600000E+00	.46400000E+00
616	.42400000E+00	.39500000E+00	.79000000F+00	.78000000E+00	.75200000E+00
621	.72000000F+00	.63500000E+00	.45000000F+00	.40000000E+00	.36600000E+00
626	.34700000E+00	.55500000E+00	.67000000E+00	.71600000E+00	.70000000E+00
631	.49000000E+00	.34000000E+00	.30500000E+00	.28000000E+00	.27000000E+00
636	.35000000E+00	.44500000E+00	.49500000F+00	.50500000E+00	.25500000E+00
641	.19000000E+00	.17200000E+00	.16700000E+00	.16100000E+00	.80500000E+00
646	.80500000E+00	.80300000E+00	.80000000E+00	.79000000E+00	.75800000E+00
651	.66400000E+00	.58500000F+00	.54500000F+00	.78500000E+00	.78500000E+00
656	.78000000F+00	.76000000E+00	.70300000F+00	.64000000E+00	.56400000E+00
661	.51000000E+00	.47800000E+00	.76500000F+00	.76500000E+00	.75500000E+00
666	.73500000E+00	.66000000E+00	.55000000E+00	.48500000E+00	.45000000E+00
671	.42100000E+00	.74000000E+00	.74000000F+00	.73000000E+00	.71000000E+00
676	.59000000E+00	.44200000E+00	.38300000E+00	.35500000E+00	.33100000E+00
681	.43000000E+00	.55000000E+00	.61500000E+00	.63500000E+00	.37500000E+00
686	.27300000E+00	.24400000E+00	.22800000E+00	.22000000E+00	.84000000E+00
691	.84000000E+00	.84000000E+00	.84000000E+00	.82500000E+00	.82200000E+00
696	.80500000E+00	.74400000E+00	.71200000F+00	.79500000E+00	.79500000E+00
701	.79500000E+00	.79500000E+00	.77500000F+00	.74500000E+00	.68500000E+00
706	.63000000E+00	.59700000E+00	.76000000F+00	.76000000E+00	.76000000E+00
711	.76000000E+00	.74800000F+00	.67000000F+00	.58400000E+00	.54000000E+00
716	.50500000E+00	.74000000E+00	.74000000F+00	.74000000E+00	.74000000E+00
721	.70000000E+00	.54000000F+00	.47000000F+00	.43000000E+00	.40000000E+00
726	.71000000E+00	.71000000E+00	.71000000F+00	.71000000E+00	.50000000E+00
731	.35200000E+00	.31000000E+00	.28500000F+00	.27000000E+00	0.

1	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+01
6	2000000E+01	30000000E+01	10000000E+01	10000000E+01	70000000E+00
11	2000000E+01	9000000E+00	9000000E+00	85000000E+00	80000000E+00
16	8000000E+00	15000000E+05	15000000E+05	20000000E+05	40000000E+05
21	0.	0.	10000000E+05	10000000E+05	10000000E+05
26	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+01
31	1000000E+01	10000000E+01	10000000E+01	10000000E+01	95000000E+00
36	8000000E+00	80000000E+00	80000000E+00	80000000E+00	75000000E+00
41	7000000E+01	15000000E+00	15000000E+00	10000000E+00	20000000E+00
46	1000000E+00	50000000E+01	50000000E+01	18000000E+00	10000000E+01
51	1000000E+01	1000000E+01	1000000E+01	30000000E+01	20000000E+01
56	1000000E+01	7000000E+00	7000000E+00	70000000E+00	85000000E+00
61	9500000E+00	80000000E+00	80000000E+00	60000000E+00	60000000E+00
66	1000000E+05	40000000E+05	40000000E+05	0.	10000000E+05
71	1500000E+05	10000000E+05	10000000E+05	10000000E+01	10000000E+01
76	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+01
81	1000000E+01	95000000E+00	95000000E+00	80000000E+00	80000000E+00
86	8000000E+00	70000000E+00	70000000E+00	70000000E+00	80000000E+01
91	2000000E+00	12000000E+00	12000000E+00	50000000E+01	12000000E+00
96	1000000E+00	10000000E+01	10000000E+01	10000000E+01	10000000E+01
101	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+01
106	7000000E+00	85000000E+00	85000000E+00	70000000E+00	70000000E+00
111	6000000E+00	60000000E+00	60000000E+00	15000000E+05	10000000E+05
116	0.	50000000E+04	50000000E+04	0.	15000000E+05
121	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+05
126	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+01
131	8000000E+00	80000000E+00	80000000E+00	75000000E+00	10000000E+01
136	7000000E+00	80000000E+01	80000000E+01	20000000E+00	80000000E+00
141	5000000E+01	12000000E+00	12000000E+00	80000000E+01	25000000E+00
146	2000000E+01	20000000E+01	20000000E+01	10000000E+01	10000000E+00
151	3000000E+01	30000000E+01	30000000E+01	10000000E+01	20000000E+01
156	7000000E+00	22000000E+01	22000000E+01	35500000E+00	70000000E+00
161	0.	30000000E+05	30000000E+05	85000000E+00	95000000E+00
166	0.	0.	0.	30000000E+05	25000000E+05
171	1000000E+01	10000000E+01	10000000E+01	10000000E+01	10000000E+01
176	1000000E+01	10000000E+01	10000000E+01	86110000E+00	10000000E+01

141
146
149
146
201
206
211
216
221
226
231
236
241
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251
256
261
266
271
276
281
286

.69440000E+00
.65400000E-01
.23200000E-01
.20000000E+01
.60000000E+00
.65000000E+00
.50000000E+04
.10000000E+04
.10000000E+01
.11000000E+01
.91000000E+00
.33410000E+00
.10000000E+01
.20000000E+01
.80000000E+00
.55000000E+00
.25000000E+05
.10000000E+01
.10000000E+01
.75000000E+00
.50000000E-01
.10000000E+00

.86110000E+00
.6190000E+00
.11800000E-01
.20000000E+01
.60000000E+00
.47000000E+00
.40000000E+05
.10000000E+01
.10000000E+01
.94000000E+00
.91000000E+00
.25500000E-01
.10000000E+01
.20000000E+01
.85000000E+00
.20000000E+05
.15000000E+05
.10000000E+01
.10000000E+01
.80000000E+00
.50000000E-01
.50000000E-01

.69440000E+00
.40700000E-01
.10000000E+01
.20000000E+01
.40000000E+00
.45000000E+00
.40000000E+05
.10000000E+01
.10000000E+01
.94000000E+00
.21450000E+00
.35400000E-01
.20000000E+01
.20000000E+01
.75000000E+00
.10000000E+05
.10000000E+05
.10000000E+01
.10000000E+01
.70000000E+00
.25000000E+00
.50000000E-01

.75000000E+00
.26900000E-01
.10000000E+01
.20000000E+01
.75000000E+00
.20000000E+05
.20000000E+05
.10000000E+01
.10000000E+01
.10600000E+01
.44000000E-02
.13500000E-01
.20000000E+01
.50000000E+00
.70000000E+00
.30000000E+05
.10000000E+04
.10000000E+01
.70000000E+00
.70000000E+00
.30000000E+00
0.

.10400000E+00
.10810000E+00
.10000000E+01
.20000000E+01
.75000000E+00
.20000000E+05
.10000000E+05
.10000000E+01
.94000000E+00
.94000000E+00
.33200000E-01
.33540000E+00
.20000000E+01
.50000000E+00
.65000000E+00
.40000000E+05
.10000000E+01
.10000000E+01
.80000000E+00
.70000000E+00
.15000000E+00
0.

*** LOADS ARRAY NF(340) - - RECORD 6 ***

1	.10000000E+02	.90000000E+01	.80000000E+01	.70000000E+01	.60000000E+01
6	.50000000E+01	.40000000E+01	.30000000E+01	.20000000E+01	.15000000E+01
11	.50000000E+00	0.	-.10000000E+01	-.20000000E+01	-.30000000E+01
16	-.40000000E+01	-.50000000E+01	-.60000000E+01	-.70000000E+01	-.80000000E+01
21	0.	0.	0.	.40000000E-01	.10000000E+01
26	.25000000E+02	.40000000E+03	.35000000E+04	.15000000E+05	.24000000E+05
31	0.	.10000000E+01	.15000000E+02	.20000000E+03	.15000000E+04
46	.10000000E+05	.40000000E+05	.10000000E+06	.17500000E+06	.21000000E+06
51	.10000000E+05	.35000000E+03	.70000000E+01	.10000000E+01	0.
61	.15000000E+02	.60000000E+02	.23000000E+03	.90000000E+03	.34000000E+04
66	.13000000E+05	.50000000E+05	.15000000E+06	.30000000E+06	.39000000E+06
71	.40000000E+05	.40000000E+04	.35000000E+03	.80000000E+01	.10000000E+00
81	0.	0.	.16000000E+02	.90000000E+02	.50000000E+03
86	.29000000E+04	.17000000E+05	.90000000E+05	.25000000E+06	.32000000E+06
91	.16000000E+05	.20000000E+04	.45000000E+02	.10000000E+00	0.
101	.60000000E+01	.55000000E+01	.50000000E+01	.45000000E+01	.40000000E+01
106	.35000000E+01	.30000000E+01	.25000000E+01	.20000000E+01	.15000000E+01
111	.50000000E+00	0.	-.50000000E+00	-.10000000E+01	-.15000000E+01
116	-.20000000E+01	-.25000000E+01	-.30000000E+01	-.35000000E+01	-.40000000E+01
121	0.	.50000000E+00	.30000000E+01	.18000000E+02	.70000000E+02
126	.25000000E+03	.80000000E+03	.25000000E+04	.92000000E+04	.31000000E+05
131	.10000000E+04	.35000000E+03	.10000000E+01	0.	0.
141	.38000000E+01	.35000000E+01	.32000000E+01	.29000000E+01	.26000000E+01
146	.23000000E+01	.20000000E+01	.17000000E+01	.14000000E+01	.11000000E+01
151	.90000000E+00	.60000000E+00	.30000000E+00	0.	-.30000000E+00
156	-.60000000E+00	-.90000000E+00	-.12000000E+01	-.15000000E+01	-.18000000E+01
161	0.	0.	.10000000E-01	.60000000E-01	.30000000E+00
166	.20000000E+01	.15000000E+02	.30000000E+03	.72000000E+04	.15000000E+06
171	.85000000E+05	.39000000E+04	.30000000E+03	.70000000E+01	.90000000E+00
176	.10000000E+00	.10000000E-01	.86000000E+02	0.	0.
181	0.	0.	0.	.30000000E-02	.30000000E-01
186	.40000000E+00	.40000000E+01	.60000000E+02	.13000000E+04	.35000000E+05
191	.20000000E+05	.24000000E+03	.40000000E+01	.10000000E+00	.20000000E-02
201	0.	0.	.20000000E-01	.12000000E+00	.60000000E+00
206	.40000000E+01	.30000000E+02	.60000000E+03	.14000000E+05	.30000000E+06
211	.30000000E+06	.14000000E+05	.60000000E+03	.30000000E+02	.40000000E+01
216	.60000000E+00	.12000000E+00	.20000000E-01	0.	0.

221	.34000000E+01	.35000000E+01	.32000000E+01	.29000000E+01	.26000000E+01
226	.23000000E+01	.20000000E+01	.17000000E+01	.14000000E+01	.11000000E+01
231	.90000000E+00	.60000000E+00	.30000000E+00	0.	-.30000000E+00
236	-.60000000E+00	-.90000000E+00	-.90000000E+01	-.15000000E+01	-.18000000E+01
241	0.	.50000000E-01	.12000000E+00	.25000000E+00	.50000000E+00
246	.18000000E+01	.10000000E+02	.13000000E+03	.15000000E+04	.10000000E+06
251	.30000000E+05	.10000000E+03	.50000000E+00	.20000000E-02	0.
261	0.	.20000000E-01	.50000000E-01	.11000000E+00	.25000000E+00
266	.54000000E+00	.20000000E+01	.16000000E+02	.30000000E+03	.10000000E+05
271	.50000000E+04	.30000000E+02	.10000000E+01	.30000000E-01	.10000000E-02
281	.38000000E+01	.35000000E+01	.32000000E+01	.29000000E+01	.26000000E+01
286	.23000000E+01	.20000000E+01	.17000000E+01	.14000000E+01	.11000000E+01
291	.90000000E+00	.60000000E+00	.30000000E+00	0.	-.30000000E+00
296	-.60000000E+00	-.90000000E+00	-.12000000E+01	-.15000000E+01	-.18000000E+01
301	0.	0.	.30000000E-01	.17000000E+00	.90000000E+00
306	.40000000E+01	.19000000E+02	.30000000E-01	.14700000E+04	.70000000E+05
311	.80000000E+04	.13600000E+03	.30000000E+00	.10000000E-02	0.
321	0.	0.	0.	0.	0.
326	.50000000E-01	.10000000E+01	.25000000E+02	.82500000E+03	.30000000E-02
331	.19200000E+04	.22000000E+02	.15000000E+00	.10000000E-02	.30000000E+05
					0.

*** LOADS ARRAY NI(60) - - RECORD 7 ***

1	.14000000E+01	.14500000E+01	.18000000E+01	.17000000E+01	.16000000E+01
6	.15000000E+01	.14000000E+01	.13000000E+01	.12000000E+01	.11000000E+01
11	.90000000E+00	.80000000E+00	.70000000E+00	.60000000E+00	.50000000E+00
16	.40000000E+00	.30000000E+00	.20000000E+00	.15000000E+00	.10000000E+00
21	.40000000E-04	.20000000E-03	.10000000E-02	.30000000E-01	.90000000E+00
26	.20000000E+02	.45000000E+03	.90000000E+04	.86000000E+05	.33000000E+06
31	.33000000E+06	.86000000E+05	.90000000E+04	.45000000E+03	.20000000E+02
36	.90000000E+00	.30000000E-01	.10000000E-02	.20000000E-03	.40000000E-04
41	.80000000E-04	.40000000E-03	.20000000E-02	.60000000E-01	.18000000E+01
46	.40000000E+02	.90000000E+03	.18000000E+05	.17000000E+06	.66000000E+06
51	.66000000E+06	.17200000E+06	.18000000E+05	.90000000E+03	.40000000E+02
56	.18000000E+01	.60000000E-01	.20000000E-02	.40000000E-03	.80000000E-04

*** LOADS ARRAY NG(72) - - RECORD 8 ***

1	0.	.25000000E+03	.75000000E+03	.17500000E+04	.37500000E+04
6	.75000000E+04	.15000000E+05	.25000000E+05	.35000000E+05	.45000000E+05
11	.55000000E+05	.65000000E+05	.10000000E+01	.10000000E+01	.10000000E+01
16	.42000000E+00	.30000000E+00	.15000000E+00	.62000000E-01	.25000000E-01
21	.11000000E-01	.46000000E-02	.20000000E-02	.88000000E-03	.27000000E+01
26	.27000000E+01	.25100000E+01	.30200000E+01	.34200000E+01	.35900000E+01
31	.32700000E+01	.31500000E+01	.29300000E+01	.32800000E+01	.38200000E+01
36	.29300000E+01	.10000000E-04	.10000000E-04	.50000000E-02	.33000000E-02
41	.20000000E-02	.95000000E-03	.28000000E-03	.11000000E-03	.95000000E-04
46	.11500000E-03	.78000000E-04	.57000000E-04	.10650000E+02	.10650000E+02
51	.50400000E+01	.59400000E+01	.81700000E+01	.92200000E+01	.10520000E+02
56	.11880000E+02	.98400000E+01	.88100000E+01	.70400000E+01	.43300000E+01
61	.50000000E+03	.50000000E+03	.50000000E+03	.17500000E+04	.25000000E+04
66	.25000000E+04	.25000000E+04	.25000000E+04	.25000000E+04	.25000000E+04
71	.25000000E+04	.25000000E+04	.25000000E+04	.25000000E+04	.25000000E+04

*** LOADS ARRAY NR(100) - - RECORD 9 ***

1	.5000000E+01	.1000000E+02	.2000000E+02	.3000000E+02	.4000000E+02
6	.6000000E+02	.1000000E+03	.1400000E+03	.2000000E+03	.3000000E+03
11	.2000000E+02	.4000000E+02	.6000000E+02	.1000000E+03	.2000000E+03
16	.2000000E+01	.4000000E+01	.6000000E+01	.1000000E+01	.1500000E+01
21	.2000000E+00	.2700000E+00	.3200000E+00	.4000000E+00	.1300000E+00
26	.5000000E+00	.5500000E+00	.6200000E+00	.6850000E+00	.1000000E+00
31	.2500000E+00	.3400000E+00	.4000000E+00	.4400000E+00	.1800000E+00
36	.6000000E+00	.6500000E+00	.7150000E+00	.7700000E+00	.5100000E+00
41	.2900000E+00	.3800000E+00	.4500000E+00	.5000000E+00	.2100000E+00
46	.6560000E+00	.7100000E+00	.7600000E+00	.8050000E+00	.5650000E+00
51	.3400000E+00	.4400000E+00	.5150000E+00	.5650000E+00	.2400000E+00
56	.7120000E+00	.7600000E+00	.8000000E+00	.8360000E+00	.6320000E+00
61	.3400000E+00	.4900000E+00	.5650000E+00	.6150000E+00	.2700000E+00
66	.7450000E+00	.7820000E+00	.8170000E+00	.8450000E+00	.6760000E+00
71	.4150000E+00	.5250000E+00	.5950000E+00	.6430000E+00	.3000000E+00
76	.7620000E+00	.7900000E+00	.8200000E+00	.8430000E+00	.7000000E+00
81	.4800000E+00	.5900000E+00	.6400000E+00	.6900000E+00	.3500000E+00
86	.7720000E+00	.7900000E+00	.8050000E+00	.8200000E+00	.7350000E+00
91	.5200000E+00	.6100000E+00	.6600000E+00	.6950000E+00	.3900000E+00
96	.7600000E+00	.7700000E+00	.7850000E+00	.7900000E+00	.7300000E+00
101	.5500000E+00	.6250000E+00	.6400000E+00	.6800000E+00	.4300000E+00
106	.7250000E+00	.7350000E+00	.7420000E+00	.7470000E+00	.7080000E+00

0.

*** PERMANENT DATA FOR WING - - RECORD 23 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E+01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42420000E+00	.75000000E+00	.10000000E+02
31	.10100000E+01	.60000000E+01	.10000000E+02	.10000000E+01	.45000000E+01
36	.95000000E+00	.99500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.30000000E+00
46	.17000000E+00	.50000000E+01	.14000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E+02	.13333300E+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E+01
61	.15600000E+00	.13333000E+01	.12500000E+01	.10000000E+03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E+01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.15000000E+00
126	.60000000E+00	.40000000E+00	0.	.10000000E+01	.49369022E+01
131	.14187151E+00	.12342674E+00	.47136354E+00	.40410000E+00	.15000000E+00
136	.60000000E+00	.40000000E+00	.25000000E+00	.97500000E+00	0.
141	0.	.10000000E+01	.20000000E+01	0.	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	.10000000E+01	.10000000E+01
161	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
166	.20000000E+01	0.	0.	0.	0.
176	.10000000E+04	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383540E+01	.72665000E+00	.40000000E+01	0.
206	0.	0.	.26000000E+01	0.	0.
211	.22300000E+01	0.	0.	0.	.26000000E+01
216	0.	0.	.22300000E+01	0.	0.
231	0.	0.	.10000000E+01	0.	0.
246	0.	.80000000E+00	0.	.10000000E+01	.10000000E+01

[illegible]

601	.10000000E+01	.10000000E+01	.25000000F+01	.10750000E+01	.10750000E+01	.10750000E+01
606	.10750000E+01	.11000000E+01	.11000000E+01	.11000000E+01	.11000000E+01	.17500000E+01
611	.20000000E+01	.17500000E+01	.12500000F+01	.12500000F+01	.12500000E+01	.12500000E+01
616	.11000000E+01	.11500000E+01	.11500000F+01	.11500000F+01	.11500000E+01	.11000000E+01
621	.11500000E+01	.11500000E+01	.11500000F+01	.11500000F+01	.15000000E+01	.75000000E+00
626	.11500000E+01	0.	0.	0.	0.	0.
636	0.	0.	0.	0.	0.	0.
641	.10000000E+01	.10000000E+01	.10000000F+01	.10000000F+01	.10000000E+01	.10000000E+01
646	.10000000E+01	.10000000E+01	.10000000F+01	.10000000F+01	.10000000E+01	.10000000E+01
841	0.	.10500000E+01	.10500000F+01	.10500000F+01	.10500000E+01	.10500000E+01
846	.10500000E+01	.10500000E+01	.10500000F+01	.10500000F+01	.10500000E+01	.10500000E+01
851	.10500000E+01	.10500000E+01	.10500000F+01	.10500000F+01	.10500000E+01	.10500000E+01
856	.12000000E+01	.10500000E+01	.12000000F+01	.12000000F+01	.12000000E+01	.12000000E+01
861	.12000000E+01	.12000000E+01	.12000000F+01	.12000000F+01	.12000000E+01	.12000000E+01
931	.11750000E+01	.12000000E+01	.11250000F+01	.11100000E+01	.11100000E+01	.11000000E+01
936	.10900000E+01	.11500000E+01	.10700000F+01	.10600000E+01	.10600000E+01	.10500000E+01
941	.10400000E+01	.10800000E+01	.10500000F+01	.10500000E+01	.10500000E+01	.10450000E+01
946	.10350000E+01	.10750000E+01	.10500000F+01	.10500000E+01	.10500000E+01	.99500000E+00
951	.98500000E+00	.10250000E+01	.10150000F+01	.10150000E+01	.10050000E+01	0.
1006	0.	.97500000E+00	0.	0.	0.	0.
1011	.10000000E+01	.10000000E+01	.10000000F+01	.10000000F+01	.10000000E+01	.10000000E+01
1016	.10000000E+01	.10000000E+01	.10000000F+01	.10000000F+01	.10000000E+01	0.
1141	0.	0.	0.	0.	0.	0.
1146	.60000000E+01	.40000000E+01	.15000000F+02	.15000000E+02	.20000000E+02	.20000000E+02
1151	.20000000E+02	.60000000F+01	.40000000F+01	.40000000E+01	.40000000E+01	0.
1206	.10000000E+01	.80000000E+01	.15000000F+01	.15000000E+01	.77000000E+03	.80000000E+00
1211	.83000000E+00	.10000000E+01	.25000000E+00	.25000000E+00	.10000000E+00	0.
1216	.10000000E+01	.80000000E+01	.17500000F+01	.40000000E+03	.40000000E+00	0.
1221	.54000000E+00	.10000000E+01	.25000000F+01	.10000000E+00	.10000000E+00	0.
1226	.10000000E+01	.80000000E+01	.15000000F+01	.40000000E+03	.40000000E+00	0.
1231	.54000000E+00	.10000000E+01	.25000000F+01	.10000000E+00	.10000000E+00	0.
1236	.10000000E+01	.10000000E+01	.10000000F+01	.35000000E+00	.16500000E+01	.10000000E+01
1241	.14500000E+01	.10000000E+01	.70000000F+00	.95000000E+03	.10000000E+01	0.
1246	0.	.10000000E+01	.25000000F+00	.10000000E+00	.14500000E+01	.10000000E+01
1251	.10000000E+01	.10000000E+01	.10000000F+01	.35000000E+00	.10000000E+01	0.
1256	.13500000E+01	.75000000E+00	.70000000F+00	.95000000E+03	.10000000E+01	0.
1261	0.	.10000000E+00	.25000000F+00	.10000000E+00	.14500000E+01	.10000000E+01
1266	.10000000E+01	.10000000E+01	.10000000F+01	.35000000E+00	.10000000E+01	0.
1271	.13500000E+01	.75000000E+00	.70000000F+00	.95000000E+03	.10000000E+01	0.
1276	0.	.10000000E+00	.25000000F+00	.10000000E+00	.10000000E+01	0.

1281	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
1286	.20000000E+01	.20000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1291	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
1366	.60000000E+01	.60000000E+01	.12000000E+02	.20000000E+01	.10000000E+01
1371	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.40000000E+01
1376	.12000000E+02	.20000000E+01	.10000000E+01	.60000000E+01	.12000000E+02
1381	.20000000E+01	.10000000E+01	.40000000E+01	.80000000E+01	.20000000E+01
1386	.10000000E+01	.30000000E+01	.60000000E+01	.50000000E+00	.25000000E+00
1391	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.30000000E+01
1396	.40000000E+01	.50000000E+00	.25000000E+00	.20000000E+01	0.
1401	.59207900E+00	.44276300E+04	0.	.10000000E+01	.35332000E+05
1406	.97110000E+03	.20786000E+05	.30570000E+00	.42561000E+01	.68750000E-05
1411	.41023570E-02	.11171853E+04	.10000000E-08	.10000000E+01	.10000000E-01
1416	.10000000E+01	0.	0.	0.	0.
1431	0.	-.11160000E+01	.14800000E+04	.22500000E+02	.80000000E+00
1436	.40000000E+00	.70000000E+00	.98481000E+00	.17365000E+00	.14814815E+00
1441	.10000000E+01	.10000000E-04	0.	0.	0.
1456	0.	0.	0.	0.	0.
1461	.99900000E+00	0.	0.	0.	.10010000E+01
1466	0.	0.	0.	0.	0.
1471	.13000000E+01	.15600000E+00	.10000000E+01	.10000000E+01	.60000000E+00
1476	.25000000E+00	.37500000E+00	.50000000E+00	.80000000E-01	.18800000E+00
1481	.12100000E+01	.13750000E+01	.10500000E+01	.40000000E+01	.15600000E+00
1486	.10000000E+01	.12500000E+00	.13350000E+01	.17500000E+01	.37500000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.20000000E+01	.50000000E+00
1496	.28800000E+00	.45000000E+01	0.	0.	.13000000E+06
1526	0.	0.	0.	0.	0.
1531	.14500000E+00	.10000000E+01	.55100000E+00	.32000000E+00	.10000000E+01
1536	.60000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+01
1541	.10000000E-01	.10000000E+01	.12500000E+00	.10000000E+01	.10000000E+00
1546	.15000000E+01	.10000000E+01	.41300000E+00	.32000000E+00	.45000000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.66700000E+00
1556	.10000000E-01	.75000000E+00	.12500000E+00	.10000000E+01	.10000000E+00
1561	.90000000E+01	.17250000E+01	.77000000E-03	.80000000E+00	.10000000E+01
1566	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.33000000E+00
1571	.10000000E-01	.50000000E+00	.12500000E+00	.10000000E+01	.10000000E+00
1731	.10000000E+01	.80000000E-02	.80000000E+00	.19500000E+01	.83000000E+00
1736	.25000000E+00	.10000000E+00	.10000000E-01	.10000000E+01	.10000000E+00
1741	.10000000E+01	.45000000E+00	.15000000E+00	0.	.12500000E+00
				0.	.10000000E-02

1746	.69000000E+00	.14400000E+02	.25000000F+00	0.	0.	.10000000E+01	.10000000E+01
1751	.12500000E+01	.15000000E+01	.17500000E+01	.25000000F+01	0.	.10000000E+00	.25000000E+00
1756	.10000000E+00	.10000000E-01	.25000000F+00	0.	.12500000E+00	.10000000E+00	.10000000E+01
1761	.25000000E+00	.12500000E+00	0.	0.	0.	0.	0.
1766	.10000000E+01	.18250000E-01	.35000000E+00	.35000000E+00	.15500000E+01	.50000000E+00	.50000000E+00
1771	.25000000E+00	.10000000E+00	.25000000E+00	.25000000E+00	.10000000E+00	.10000000E+00	.10000000E-01
1776	.10000000E+00	.12500000E+00	.10000000F+01	.10000000F+01	.10000000E+00	.10000000E+00	.50000000E-01
1781	0.	0.	0.	0.	0.	0.	0.
1786	.77300000E+00	.35000000E+00	.30690000E+00	.30690000E+00	0.	0.	.14000000E+01
1791	.24420000E-01	.35000000E+00	.13602700F+01	.13602700F+01	0.	0.	.15000000E+01
1796	.28000000E+00	.40000000E+00	.55000000F+00	.55000000F+00	0.	0.	.10000000E+00
1801	.10000000E+00	.10000000E+00	.15000000F+00	.15000000F+00	.10000000E+00	.10000000E+00	.10000000E+00
1806	.10000000E+00	.10000000E+00	.10000000F+00	.10000000F+00	.20000000E+00	.20000000E+00	.20000000E+00
1811	.30000000E+00	.25000000E+00	.47500000F+00	.47500000F+00	.47500000E+00	.47500000E+00	.40000000E+00
1936	0.	0.	0.	0.	.75000000E+00	.75000000E+00	.47500000E+00
1941	.75000000E+00	.10000000E+01	.75000000E+00	.75000000E+00	.75000000E+00	.75000000E+00	.75000000E+00
1946	.10000000E+01	.10000000E+01	.50000000F+00	.50000000F+00	.10000000E+01	.10000000E+01	.10000000E+01
1951	.25000000E+01	.15000000E+01	.12500000E+01	.12500000E+01	.10000000E+04	.10000000E+04	.30000000E+01
1956	.10000000E+01	.77000000E-03	.80000000F+00	.80000000F+00	0.	0.	0.
1961	0.	.10000000E+00	.25000000F+00	.25000000F+00	.83000000E+00	.83000000E+00	.50000000E+00
1966	0.	0.	0.	0.	.10000000E+00	.10000000E+00	0.
1971	.53300000E-01	.53300000E-01	.68700000F-01	.68700000F-01	0.	0.	.11550000E+00
1976	.40000000E-01	.50000000E-01	.75000000F+00	.75000000F+00	.53300000E-01	.53300000E-01	.50000000E-01
1981	.80000000E+00	0.	0.	0.	.80000000E+00	.80000000E+00	.45000000E+00

*** PERMANENT DATA FOR HORIZONTAL TAIL - - RECORD 26 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42920000E+00	.75000000E+00	.10000000E-02
31	.10100000E+01	.60000000E-01	.10000000E+02	.10000000E-01	.45000000E-01
36	.95000000E+00	.94500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.83000000E+00
46	.17000000E+00	.50000000E+01	.16000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E-02	.13333300E+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E-01
61	.15600000E+00	.13333000E+01	.12500000E+01	.10000000E-03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E-01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.15000000E+00
126	.60000000E+00	.40000000E+00	0.	.10000000E+01	.49369022E-01
131	-.14187151E+00	-.12342674E+00	.47136354E+00	.40410000E+00	.15000000E+00
136	.60000000E+00	.40000000E+00	.25000000E+00	.97500000E+00	0.
141	0.	.10000000E+01	.20000000E+01	0.	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	.10000000E+01	.10000000E+01
161	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
166	.20000000E+01	0.	0.	0.	0.
176	.10000000E+04	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383560E+01	0.	.44000000E+01	0.
206	0.	0.	.72665000E+00	0.	0.
211	.22300000E-01	0.	.26000000E-01	0.	.26000000E-01
216	0.	0.	0.	0.	0.
231	0.	0.	.22300000E-01	0.	0.
246	0.	.60000000E+00	.10000000E+01	.10000000E+01	.10000000E+01

251	0.	0.	0.	0.	0.	0.	0.	0.	0.
256	0.	0.	0.	0.	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.	0.	0.	0.	0.
306	0.	0.	0.	0.	0.	0.	0.	0.	0.
311	0.	0.	0.	0.	0.	0.	0.	0.	0.
316	0.	0.	0.	0.	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.	0.	0.	0.	0.
371	0.	0.	0.	0.	0.	0.	0.	0.	0.
376	0.	0.	0.	0.	0.	0.	0.	0.	0.
381	0.	0.	0.	0.	0.	0.	0.	0.	0.
386	0.	0.	0.	0.	0.	0.	0.	0.	0.
391	0.	0.	0.	0.	0.	0.	0.	0.	0.
396	0.	0.	0.	0.	0.	0.	0.	0.	0.
401	0.	0.	0.	0.	0.	0.	0.	0.	0.
406	0.	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.	0.
416	0.	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.	0.
426	0.	0.	0.	0.	0.	0.	0.	0.	0.
446	0.	0.	0.	0.	0.	0.	0.	0.	0.
451	0.	0.	0.	0.	0.	0.	0.	0.	0.
456	0.	0.	0.	0.	0.	0.	0.	0.	0.
476	0.	0.	0.	0.	0.	0.	0.	0.	0.
481	0.	0.	0.	0.	0.	0.	0.	0.	0.
486	0.	0.	0.	0.	0.	0.	0.	0.	0.
491	0.	0.	0.	0.	0.	0.	0.	0.	0.
496	0.	0.	0.	0.	0.	0.	0.	0.	0.
501	0.	0.	0.	0.	0.	0.	0.	0.	0.
516	0.	0.	0.	0.	0.	0.	0.	0.	0.
521	0.	0.	0.	0.	0.	0.	0.	0.	0.
526	0.	0.	0.	0.	0.	0.	0.	0.	0.
531	0.	0.	0.	0.	0.	0.	0.	0.	0.
536	0.	0.	0.	0.	0.	0.	0.	0.	0.
551	0.	0.	0.	0.	0.	0.	0.	0.	0.
556	0.	0.	0.	0.	0.	0.	0.	0.	0.
561	0.	0.	0.	0.	0.	0.	0.	0.	0.
566	0.	0.	0.	0.	0.	0.	0.	0.	0.
571	0.	0.	0.	0.	0.	0.	0.	0.	0.

1276	0.	10000000E+00	100000000F+00	100000000E+00	100000000E+00	0.
1281		10000000E+01	200000000F+01	100000000E+01	200000000E+01	0.
1286		20000000E+01	100000000F+01	200000000E+01	100000000E+01	0.
1291		10000000E+01	100000000F+01	100000000E+01	100000000E+01	0.
1366		60000000E+01	120000000F+02	600000000E+01	200000000E+01	0.
1371		30000000E+01	500000000F+00	500000000E+01	250000000E+00	0.
1376		12000000E+02	100000000F+01	200000000E+01	600000000E+01	0.
1381		20000000E+01	400000000F+01	100000000E+01	800000000E+01	0.
1386		10000000E+01	600000000F+01	300000000E+01	500000000E+00	0.
1391		30000000E+01	500000000F+00	500000000E+01	250000000E+00	0.
1396		40000000E+01	250000000F+00	500000000E+00	200000000E+01	0.
1401		59207900E+00	44276300E+04	44276300E+04	100000000E+01	0.
1406		97110000E+03	20786000E+05	20786000E+05	42541000E+01	0.
1411		41023570E+02	11171853E+04	11171853E+04	100000000E+01	0.
1416		10000000E+01	0.	0.	0.	0.
1431	0.	0.	-11160000E+01	-11160000E+01	225000000E+02	0.
1436		40000000E+00	70000000E+00	70000000E+00	17365000E+00	0.
1441		10000000E+01	10000000E+04	10000000E+04	0.	0.
1456	0.	0.	0.	0.	0.	0.
1461		99900000E+00	0.	0.	0.	0.
1466	0.	0.	0.	0.	0.	0.
1471		13000000E+01	15600000E+00	15600000E+00	100000000E+01	0.
1476		25000000E+00	37500000E+00	37500000E+00	80000000E+01	0.
1481		12100000E+01	13750000E+01	13750000E+01	40000000E+01	0.
1486		10000000E+01	12500000F+00	12500000F+00	17500000E+01	0.
1491		25000000E+01	10000000E+01	10000000E+01	20000000E+01	0.
1496		28000000E+00	45000000E+01	45000000E+01	0.	0.
1526	0.	0.	0.	0.	0.	0.
1531		14500000E+00	10000000E+01	10000000E+01	32000000E+00	0.
1536		80000000E+00	25000000E+00	25000000E+00	25000000E+00	0.
1541		10000000E+01	10000000E+01	10000000E+01	10000000E+01	0.
1546		15000000E+01	10000000E+01	10000000E+01	32000000E+00	0.
1551		40000000E+00	25000000E+00	25000000E+00	25000000E+00	0.
1556		10000000E+01	75000000E+00	75000000E+00	10000000E+01	0.
1561		90000000E+01	17250000E+01	17250000E+01	80000000E+00	0.
1566		40000000E+00	25000000E+00	25000000E+00	25000000E+00	0.
1571		10000000E+01	50000000E+00	50000000E+00	10000000E+01	0.
1731		10000000E+01	80000000E+02	80000000E+02	19500000E+01	0.
1736		25000000E+00	10000000E+00	10000000E+00	10000000E+01	0.

1741	.10000000E+01	.45000000E+00	.15000000E+00	0.	0.	.10000000E-02
1746	.69000000E+00	.14400000E+02	.25000000E+00	.15000000E+00	0.	.10000000E+01
1751	.12500000E+01	.15000000E+01	.17500000E+01	.10000000E+00	.10000000E+00	.25000000E+00
1756	.10000000E+00	.10000000E-01	.25000000E+00	.25000000E+00	.12500000E+00	.10000000E+01
1761	.25000000E+00	.12500000E+00	0.	0.	0.	0.
1766	.10000000E+01	.18250000E-01	.35000000E+00	.15500000E+01	.15500000E+01	.50000000E+00
1771	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00	.10000000E+00	.10000000E-01
1776	.10000000E+00	.12500000E+00	.10000000E+01	.10000000E+00	.10000000E+00	.50000000E-01
1781	0.	0.	0.	0.	0.	.14000000E+01
1786	.77300000E+00	.35000000E+00	.30690000E+00	.30690000E+00	.15000000E+01	.15000000E+01
1791	.24420000E-01	.35000000E+00	.13602700E+01	.13602700E+01	.10000000E+00	.10000000E+00
1796	.28000000E+00	.40000000E+00	.55000000E+00	.55000000E+00	.10000000E+00	.10000000E+00
1801	.10000000E+00	.10000000E+00	.15000000E+00	.15000000E+00	.20000000E+00	.20000000E+00
1806	.10000000E+00	.10000000E+00	.10000000E+00	.10000000E+00	.47500000E+00	.40000000E+00
1811	.30000000E+00	.25000000E+00	.47500000E+00	.47500000E+00	.47500000E+00	.47500000E+00
1836	0.	0.	0.	0.	0.	.75000000E+00
1941	.75000000E+00	.10000000E+01	.75000000E+00	.75000000E+00	.75000000E+00	.75000000E+00
1946	.10000000E+01	.10000000E+01	.50000000E+00	.50000000E+00	.10000000E+01	.10000000E+01
1951	.25000000E+01	.15000000E+01	.12500000E+01	.12500000E+01	.10000000E+04	.30000000E+01
1956	.10000000E+01	.77000000E-03	.80000000E+00	.80000000E+00	.83000000E+00	.50000000E+00
1961	0.	.10000000E+00	.25000000E+00	.25000000E+00	.10000000E+00	0.
1966	0.	0.	0.	0.	0.	0.
1971	.53300000E-01	.53300000E-01	.68700000E-01	.68700000E-01	.53300000E-01	.11550000E+00
1976	.40000000E-01	.50000000E-01	.75000000E+00	.75000000E+00	.80000000E+00	.50000000E-01
1981	.80000000E+00	0.	0.	0.	0.	.45000000E+00

*** PERMANENT DATA FOR VERTICAL TAIL - - RECORD 27 ***

1	10000000E+01	20000000E+01	30000000E+01	40000000E+01	50000000E+01
6	60000000E+01	70000000E+01	80000000E+01	90000000E+01	10000000E+02
11	11000000E+02	12000000E+02	20000000E+02	10000000E+04	31415920E+01
16	17453287E-01	14400000E+03	24000000E+02	50000000E+00	15000000E+01
21	3333333E+00	95000000E+00	15000000E+01	10500000E+01	75000000E+00
26	35500000E+00	12500000E+00	42920000E+00	75000000E+00	10000000E-02
31	10100000E+01	60000000E-01	10000000E+02	10000000E-01	45000000E-01
36	95000000E+00	99500000E+00	90000000E+00	10000000E+00	15000000E+01
41	50000000E+00	50000000E+00	25000000E+00	75000000E+00	83000000E+00
46	17000000E+00	50000000E+01	14000000E+02	20000000E+01	25000000E+00
51	6666667E+00	20000000E-02	13333300E+01	78539800E+00	50000000E+00
56	15000000E+01	25000000E+00	25000000E+00	75000000E+00	15000000E+01
61	15600000E+00	13333000E+01	12500000E+01	10000000E-03	50000000E+02
66	25000000E+02	50000000E+00	70000000E+00	10750000E+01	65600000E+00
71	10300000E+01	91100000E+00	50000000E-01	50000000E+00	60000000E+01
76	20000000E+01	25000000E+01	17386830E+02	50000000E+00	0.
106	0.	0.	0.	0.	10000000E+01
111	70000000E+00	30000000E+00	72500000E+00	66447000E+00	10000000E+01
116	60000000E+00	98500000E+00	0.	0.	0.
121	0.	15000000E+01	0.	92000000E+00	15000000E+00
126	60000000E+00	40000000E+00	0.	10000000E+01	49369022E-01
131	-14187151E+00	-12342674E+00	47136354E+00	40410000E+00	15000000E+00
136	60000000E+00	40000000E+00	25000000E+00	97500000E+00	0.
141	0.	10000000E+01	20000000E+01	0.	0.
151	0.	0.	20000000E+02	0.	10000000E+01
156	15000000E+01	55000000E+01	0.	10000000E+01	10000000E+01
161	10000000E+01	10000000E+01	20000000E+01	20000000E+01	20000000E+01
166	20000000E+01	0.	0.	0.	0.
176	10000000E+04	0.	0.	0.	0.
186	10000000E+01	0.	0.	85000000E+00	10000000E+01
191	10000000E+01	98383560E+01	72665000E+00	44000000E+01	0.
206	0.	0.	26000000E-01	0.	0.
211	22300000E-01	0.	0.	0.	26000000E-01
216	0.	0.	22300000E-01	0.	0.
231	0.	0.	10000000E+01	10000000E+01	0.
246	0.	80000000E+00	0.	0.	10000000E+01

596	0.	.10000000E+01	0.	.10000000E+01	0.	.30000000E+01	0.	.10750000E+01	0.	.10000000E+01
601		.10750000E+01		.10700000E+01		.10700000E+01		.10700000E+01		.10000000E+01
606		.20000000E+01		.17500000E+01		.12500000E+01		.12500000E+01		.17500000E+01
611		.11000000E+01		.11500000E+01		.11500000E+01		.11500000E+01		.12500000E+01
616		.11500000E+01		.11500000E+01		.11500000E+01		.11500000E+01		.11000000E+01
621		.11500000E+01		.11500000E+01		.11500000E+01		.11500000E+01		.11000000E+01
626		.11500000E+01		.11500000E+01		.11500000E+01		.11500000E+01		.11000000E+01
636	0.									0.
641		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01
646		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01
841	0.									0.
846		.10500000E+01		.10500000E+01		.10500000E+01		.10500000E+01		.10500000E+01
851		.10500000E+01		.10500000E+01		.10500000E+01		.10500000E+01		.10500000E+01
856		.12000000E+01		.10500000E+01		.12000000E+01		.12000000E+01		.12000000E+01
861		.12000000E+01		.12000000E+01		.12000000E+01		.12000000E+01		.12000000E+01
931		.11750000E+01		.11500000E+01		.11250000E+01		.11100000E+01		.11000000E+01
936		.10900000E+01		.10700000E+01		.10700000E+01		.10600000E+01		.10500000E+01
941		.10400000E+01		.10750000E+01		.10650000E+01		.10550000E+01		.10450000E+01
946		.10350000E+01		.10250000E+01		.10150000E+01		.10050000E+01		.99500000E+00
951		.98500000E+00		.97500000E+00						0.
1006	0.									0.
1011		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01
1016		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+01
1141	0.									0.
1146		.60000000E+01		.60000000E+01		.40000000E+01		.20000000E+02		.20000000E+02
1151		.20000000E+02		.60000000E+01		.40000000E+01		.15000000E+02		.20000000E+02
1206		.10000000E+01		.80000000E+01		.15000000E+01		.40000000E+01		0.
1211		.83000000E+00		.10000000E+00		.25000000E+00		.77000000E+03		.80000000E+00
1216		.10000000E+01		.80000000E+01		.17500000E+01		.10000000E+00		0.
1221		.54000000E+00		.10000000E+00		.25000000E+00		.40000000E+03		.80000000E+00
1226		.10000000E+01		.80000000E+01		.15000000E+01		.10000000E+00		0.
1231		.54000000E+00		.10000000E+00		.25000000E+00		.40000000E+03		.80000000E+00
1236		.10000000E+01		.10000000E+01		.10000000E+01		.10000000E+00		0.
1241		.14500000E+01		.10000000E+01		.70000000E+00		.95000000E+03		.16500000E+01
1246	0.					.25000000E+00		.10000000E+00		.10000000E+01
1251		.10000000E+01		.10000000E+01		.10000000E+01		.35000000E+00		0.
1256		.13500000E+01		.75000000E+00		.70000000E+00		.35000000E+00		.14500000E+01
1261	0.					.25000000E+00		.10000000E+00		.10000000E+01
1266		.10000000E+01		.10000000E+01		.10000000E+01		.35000000E+00		0.
										.14500000E+01

1271	.13500000E+01	.75000000E+00	.95000000E+03	.10000000E+01
1276	0.	.10000000E+00	.25000000E+00	0.
1281	.10000000E+01	.10000000E+01	.10000000E+01	.20000000E+01
1286	.20000000E+01	.20000000E+01	.10000000E+01	.10000000E+01
1291	.10000000E+01	.10000000E+01	.10000000E+01	0.
1366	.60000000E+01	.60000000E+01	.12000000E+02	.10000000E+01
1371	.30000000E+01	.50000000E+01	.50000000E+00	.10000000E+01
1376	.12000000E+02	.20000000E+01	.10000000E+01	.40000000E+01
1381	.20000000E+01	.10000000E+01	.40000000E+01	.12000000E+02
1386	.10000000E+01	.30000000E+01	.60000000E+01	.20000000E+01
1391	.30000000E+01	.50000000E+01	.50000000E+00	.50000000E+00
1396	.40000000E+01	.50000000E+00	.25000000E+00	.25000000E+00
1401	.59267900E+00	.44276300E-04	0.	.20000000E+01
1406	.97110000E+03	.20786000E+05	.30570000E+00	.10000000E+01
1411	.41023570E-02	.11171853E+04	.10000000E-08	.42561000E+01
1416	.10000000E+01	0.	0.	.10000000E+01
1431	0.	-.11160000E+01	.14800000E+04	0.
1436	.40000000E+00	.70000000E+00	.98481000E+00	.22500000E+02
1441	.10000000E+01	.10000000E-04	0.	.17365000E+00
1456	0.	0.	0.	0.
1461	.99900000E+00	0.	0.	0.
1466	0.	0.	0.	0.
1471	.13000000E+01	.15600000E+00	.10000000E+01	.10010000E+01
1476	.25000000E+00	.37500000E+00	.50000000E+00	0.
1481	.12100000E+01	.13750000E+01	.10500000E+01	.60000000E+00
1486	.10000000E+01	.12500000E+00	.13330000E+01	.18800000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.15600000E+00
1496	.28800000E+00	.45000000E+01	0.	.37500000E+00
1526	0.	0.	0.	.50000000E+00
1531	.14500000E+00	.10000000E+01	.55100000E+00	.13000000E+06
1536	.80000000E+00	.25000000E+00	.10000000E+00	0.
1541	.10000000E+01	.10000000E+01	.12500000E+00	.10000000E+01
1546	.15000000E+01	.10000000E+01	.17500000E+00	.10000000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.45000000E+00
1556	.10000000E+01	.75000000E+00	.12500000E+00	.66700000E+00
1561	.90000000E+01	.17250000E+01	.77000000E-03	.10000000E+00
1566	.80000000E+00	.25000000E+00	.10000000E+00	.33000000E+00
1571	.10000000E+01	.50000000E+00	.12500000E+00	.10000000E+00
1731	.10000000E+01	.80000000E-02	.80000000E+00	.83000000E+00
				.10000000E+00

1736	•25000000E+00	•10000000E+00	•10000000E+01	•12500000E+00
1741	•10000000E+01	•5000000E+00	•15000000E+00	•10000000E-02
1746	•6000000E+00	•1400000E+02	•2500000E+00	•10000000E+01
1751	•12500000E+01	•15000000E+01	•17500000E+01	•25000000E+00
1756	•10000000E+00	•10000000E-01	•25000000E+00	•10000000E+01
1761	•25000000E+00	•12500000E+00	0.	0.
1766	•10000000E+01	•18250000E-01	•35000000E+00	•50000000E+00
1771	•25000000E+00	•10000000E+00	•25000000E+00	•10000000E-01
1776	•10000000E+00	•12500000E+00	•10000000E+01	•50000000E-01
1781	0.	0.	0.	•14000000E+01
1786	•77300000E+00	•35000000E+00	•30690000E+00	•15000000E+01
1791	•24420000E-01	•35000000E+00	•13602700E+01	•10000000E+00
1796	•24000000E+00	•40000000E+00	•55000000E+00	•10000000E+00
1801	•10000000E+00	•10000000E+00	•15000000E+00	•20000000E+00
1806	•10000000E+00	•10000000E+00	•10000000E+00	•40000000E+00
1811	•30000000E+00	•25000000E+00	•47500000E+00	•47500000E+00
1936	0.	0.	0.	•75000000E+00
1941	•75000000E+00	•10000000E+01	•75000000E+00	•75000000E+00
1946	•10000000E+01	•10000000E+01	•50000000E+00	•10000000E+01
1951	•25000000E+01	•15000000E+01	•12500000E+01	•30000000E+01
1956	•10000000E+01	•77000000E-03	•80000000E+00	0.
1961	0.	•10000000E+00	•25000000E+00	•50000000E+00
1966	0.	0.	0.	0.
1971	•53300000E-01	•53300000E-01	•68700000E-01	•11550000E+00
1976	•40000000E-01	•50000000E-01	•75000000E+00	•50000000E-01
1981	•40000000E+00	0.	0.	•45000000E+00
				0.

*** PERMANENT DATA FOR FUSELAGE - - RECORD 24 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.20000000E+02	.31415927E+01
16	.17453242E+01	.14400000E+03	.74000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	.50000000E+00	.14142136E+01
26	.3217409E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333333E+01
31	0.	0.	.50000000E+00	.50000000E+00	.25000000E+00
36	.40000000E+01	.40000000E+01	.15000000E+01	.75000000E+01	.62500000E+04
41	.50000000E+01	.42600000E+00	.40000000E+01	.75000000E+01	0.
46	.90000000E+00	.75000000E+00	.50000000E+02	.20000000E+01	.20000000E+01
51	.50000000E+01	.32000000E+01	.14500000E+00	.50000000E+01	.32000000E+01
56	.10000000E+01	.50000000E+01	.25000000E+01	.10000000E+01	.90000000E+00
61	.87500000E+00	.32634338E+00	.50000000E+01	0.	0.
81	.14797570E+04	.52187000E+02	.61985800E+00	.14651750E+04	.50766950E+02
86	.64344120E+00	.29071940E+02	.19965900E+03	.48516740E+00	.11664560E+01
91	.48841200E+00	.40372030E+00	.14000000E+01	.60000000E+00	.48492710E+00
96	.55518410E+00	.16869440E+00	.21699920E+01	.96369400E+03	.11300000E+00
101	.90000000E+01	.52200000E+00	.29000000E+08	.28108000E+01	.52290000E+01
106	.60000000E+00	.16460000E+01	.89400000E+00	.39400000E+00	.12880000E+01
111	.13769000E+01	.24840000E+01	.19840000E+01	.44670000E+01	.14430000E+00
116	.17562200E+00	.13411000E+01	.12000000E+01	.10000000E+01	.78000000E+00
121	.65000000E+00	.15158600E+03	.18695000E+00	.58800000E+01	.20000000E+02
126	.75238000E+03	0.	.16000000E+00	.85000000E+00	.76118200E+03
131	.12500000E+00	.31200000E+00	.44440000E+00	.22400000E+03	.66670000E+00
136	.20000000E+01	.12000000E+02	.11000000E+01	.10000000E+01	.10000000E+02
141	.21500000E+03	.21500000E+03	.16900000E+01	.26000000E+02	.21580000E+01
146	.14800000E+04	.10500000E+05	.23000000E+00	.34800000E+00	.10258700E+00
151	.52500000E+01	.25000000E+02	.15740000E+03	.25000000E+00	.80000000E+02
156	.64000000E+03	.25000000E+03	.12500000E+03	.17500000E+00	.10000000E+02
161	.14000000E+02	.22100000E+01	.60000000E+01	.15000000E+01	.24000000E+02
166	.80000000E+01	.80000000E+01	.50000000E+01	.11450000E+02	.27600000E+01
171	.27600000E+01	.17500000E+01	.23500000E+01	.30600000E+02	.13000000E+01
176	.80000000E+00	.53000000E+01	.50000000E+01	.29000000E+01	.95000000E+01
181	0.	.12210000E+02	.93300000E+00	.40000000E+01	.55000000E+01
186	.25000000E+01	.15500000E+01	.90000000E+03	.13000000E+01	.17000000E+01
191	.19000000E+01	.15000000E+02	.20000000E+01	.17000000E+03	.19500000E+02

196	.19500000E+02	.10000000E+02	.48000000E+02	.24000000E+02	0.
201	.23000000E+03	.11000000E+02	.10000000E+02	.12000000E+03	.10000000E+02
206	.7949500E+03	.20673200E+04	.10450000E+02	.28000000E+00	.10000000E+02
211	.10000000E+03	.25000000E+02	.50000000E+01	.29300000E+01	.50000000E+01
216	.25000000E+01	.25000000E+01	.22000000E+01	.15000000E+01	.50000000E+00
221	.10000000E+00	.35000000E+01	.26000000E+01	.50000000E+01	.66000000E+00
226	.48000000E+01	.33000000E+01	.27000000E+01	.14160000E+02	.14131250E+03
231	.79260000E+02	.25000000E+04	.38000000E+03	.20000000E+02	.20000000E+00
236	.10000000E+00	.77000000E+00	0.	0.	0.
266	0.	0.	0.	.66326500E+00	0.
271	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
276	.10000000E+01	0.	0.	0.	0.

***PERMANENT DATA FOR LANDING GEAR - - RECORD 25 ***

1	.10000000E+00	.60000000E+00	.14000000E+01	.89285700E+00	.25000000E+00
6	.50000000E+00	.10000000E+02	.25000000E+00	.50000000E+00	.25000000E+00
11	.80000000E+00	.10000000E+00	.34777600E+02	.98000000E+00	.80000000E+01
16	.80000000E+00	.20240000E+01	.29630000E+00	.62380000E+00	.80000000E+00
21	.10000000E+01	.12000000E+01	.10000000E+01	.10000000E+01	.40800000E+05
26	.50000000E+02	.10000000E+03	.20000000E+02	.10000000E+02	.30000000E+02
31	.50000000E+02	.10000000E+02	.10000000E+01	.10000000E+01	.20000000E+01
36	.30000000E+01	.10000000E+01	.12000000E+01	.10000000E+01	.60000000E+00
41	.20000000E+00	.12000000E+00	0.	0.	0.

*** PERMANENT DATA FOR AIR INDUCTION SYSTEM - - RECORD 28 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.3333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333333E+01
31	.50000000E+00	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	.50000000E+01	.42600000E+00	.40000000E+01	.15000000E+01	.12000000E+01
46	.90000000E+00	.75000000E+00	.50000000E-02	.75000000E+01	.10000000E+01
51	.50000000E-01	.32000000E-01	.14500000E+00	.20000000E+01	.20000000E+01
56	.10000000E+01	.50000000E-01	.25000000E-01	.50000000E-01	.32000000E-01
61	.87500000E+00	.32634338E+00	.50000000E-01	.10000000E+01	.90000000E+00
66	.36089239E+02	.21162200E+04	.68755900E-02	0.	0.
81	.20805560E+02	.47268000E+03	.10498688E+03	.52559100E+01	.65616880E+02
86	.34163400E+02	.54864100E+00	.18131000E+02	.11434500E+03	.38997000E+03
91	.12201200E+02	.15419948E+03	.51867000E+03	.15361900E+01	.41157000E+03
96	.30400000E-05	.53300000E+02	.14000000E+01	.35641600E+01	.38997000E+03
101	.30000000E+00	.50000000E+00	.46000000E+03	.75000000E-01	.13500000E+01
106	.51800000E+02	.80000000E+00	.50000000E-01	.12530000E+02	.15650000E+02
111	.28915600E-01	.13501120E+01	.66431900E+00	.40000000E+03	.10190560E+01
116	.80725000E-01	.31650300E+01	.15885240E+01	.15000000E+01	.60262700E-02
121	.77047600E+00	.14825150E+00	.43717580E+01	.11000000E+04	.25000000E+01
126	.15381160E+01	.30296970E+00	.48723350E+00	.21149690E+01	.90000000E+03
131	.16000000E+01	.98400000E+00	.74000000E-02	.46531260E+00	.70000000E+03
141	.30000000E-01	.13769000E+01	.71853000E-01	.26300000E-01	0.
161	.16866670E+01	.89400000E+00	.24840000E+01	.66666700E+00	.26666670E+01
166	.16460000E+01	.48516740E+00	.39400000E+00	.19840000E+01	.44670000E+01
171	.40000000E+01	.60000000E+00	.11664560E+01	.12880000E+01	.25000000E+01
176	.14000000E+01	.96369400E-03	.48492710E+00	.48841200E+00	.40372030E+00
181	.21699920E-01	.15000000E-01	.12000000E+02	.55518400E+00	.16869440E+00
186	.25000000E-04	.80000000E+00	.12000000E+02	.14131250E+03	.79200000E+02
191	.25000000E+01	.10000000E+01	.50000000E+01	.15000000E+02	.29300000E+01
196	.10000000E+01	.50000000E+00	.10000000E+01	.26000000E-01	.10000000E+01
271	.90000000E+00	.10000000E+00	.50000000E+00	.10000000E+01	0.
421	.44000000E+01	.10000000E+00	.10000000E+01	.20000000E+00	.90000000E+00
426	.10000000E+01	.10000000E+00	.10000000E+01	.10000000E+01	.10000000E+01
431	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01

*** PERMANENT DATA FOR VF AND TEMPERATURE - - RECORD 12 ***

1	.20000000E+00	.40000000E+00	.60000000E+00	.80000000E+00	.82500000E+00
6	.85000000E+00	.87500000E+00	.90000000E+00	.92500000E+00	.95000000E+00
11	.97500000E+00	.10000000E+01	.10250000E+01	.10500000E+01	.10750000E+01
16	.11000000E+01	.11250000E+01	.11500000E+01	.11750000E+01	.12000000E+01
21	.13000000E+01	.14000000E+01	.15000000E+01	.16000000E+01	.17000000E+01
26	.18000000E+01	.19000000E+01	.20000000E+01	.21000000E+01	.22000000E+01
31	.23000000E+01	.24000000E+01	.25000000E+01	.30000000E+01	.35000000E+01
36	.40000000E+01	.45000000E+01	.50000000E+01	.60000000E+01	.12000000E+00
41	.18000000E+00	.24000000E+00	.25500000E+00	.27500000E+00	.29500000E+00
46	.31000000E+00	.32200000E+00	.32700000E+00	.33000000E+00	.33200000E+00
51	.33300000E+00	.33200000E+00	.32900000E+00	.32500000E+00	.32000000E+00
56	.31400000E+00	.30700000E+00	.30000000E+00	.27800000E+00	.26700000E+00
61	.26200000E+00	.25900000E+00	.25700000E+00	.25700000E+00	.25800000E+00
66	.26000000E+00	.26200000E+00	.26400000E+00	.26600000E+00	.26900000E+00
71	.27200000E+00	.29200000E+00	.31500000E+00	.33900000E+00	.36400000E+00
76	.39000000E+00	.24000000E+01	.48000000E+01	.72000000E+01	.96000000E+01
81	.99000000E+01	.10200000E+00	.10500000E+00	.10800000E+00	.11100000E+00
86	.11300000E+00	.11500000E+00	.11700000E+00	.11900000E+00	.12000000E+00
91	.12100000E+00	.12200000E+00	.12300000E+00	.12200000E+00	.12100000E+00
96	.12000000E+00	.11700000E+00	.11400000E+00	.11200000E+00	.11100000E+00
101	.11000000E+00	.11000000E+00	.11100000E+00	.12000000E+00	.11400000E+00
106	.11600000E+00	.11400000E+00	.12000000E+00	.12200000E+00	.13000000E+00
111	.13900000E+00	.14900000E+00	.16000000E+00	.17200000E+00	.82000000E+01
116	.16400000E+00	.24600000E+00	.32800000E+00	.34200000E+00	.36000000E+00
121	.38500000E+00	.40000000E+00	.41000000E+00	.41800000E+00	.42500000E+00
126	.43000000E+00	.43300000E+00	.43500000E+00	.43700000E+00	.43800000E+00
131	.43700000E+00	.43500000E+00	.43300000E+00	.43000000E+00	.41300000E+00
136	.39000000E+00	.36500000E+00	.35000000E+00	.33700000E+00	.33000000E+00
141	.32300000E+00	.32000000E+00	.32000000E+00	.32700000E+00	.32500000E+00
146	.32800000E+00	.33300000E+00	.36000000E+00	.39200000E+00	.42500000E+00
151	.46000000E+00	.49800000E+00	.52000000E+01	.10400000E+00	.15600000E+00
156	.20400000E+00	.21400000E+00	.22000000E+00	.22600000E+00	.23200000E+00
161	.23800000E+00	.24400000E+00	.25000000E+00	.25500000E+00	.25900000E+00
166	.26300000E+00	.26600000E+00	.26800000E+00	.26900000E+00	.26800000E+00
171	.26600000E+00	.26300000E+00	.25200000E+00	.24500000E+00	.24000000E+00
176	.23700000E+00	.23500000E+00	.23400000E+00	.23500000E+00	.23600000E+00
181	.23700000E+00	.23800000E+00	.23900000E+00	.24100000E+00	.24300000E+00

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.25600000E+00
.73000000E-01
.32500000E+00
.40100000E+00
.42500000E+00
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.32500000E+00
.34100000E+00
.42300000E+00
.75000000E-01
.11200000E+00
.12500000E+00
.12600000E+00
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.21700000E+00
.32200000E+00
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.30700000E+00
.32400000E+00
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.85000000E+00

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.14600000E+00
.34300000E+00
.41000000E+00
.42300000E+00
.35400000E+00
.32700000E+00
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.45100000E+00
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.11100000E+00
.12100000E+00
.14800000E+00
.77000000E-01
.34000000E+00
.40000000E+00
.40200000E+00
.33000000E+00
.31000000E+00
.32800000E+00
.42200000E+00
.85000000E+00

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.21900000F+00
.36000000E+00
.41700000F+00
.42000000E+00
.33700000E+00
.33000000E+00
.34900000F+00
.48000000F+00
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.12700000F+00
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.16400000E+00
.15400000E+00
.36000000E+00
.40300000E+00
.39500000E+00
.31000000E+00
.31300000E+00
.33300000E+00
.45400000E+00
.10000000F+01

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.29200000E+00
.37600000E+00
.42200000E+00
.41600000E+00
.33000000E+00
.33300000E+00
.37200000E+00
.25000000E-01
.10600000E+00
.12100000E+00
.12800000E+00
.11500000E+00
.11400000E+00
.12700000E+00
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.23100000E+00
.37500000E+00
.40400000E+00
.38500000E+00
.30600000E+00
.31600000E+00
.33900000E+00
.48400000E+00
.10000000E+01

.33000000E+00
.30700000E+00
.39000000E+00
.42400000E+00
.41000000E+00
.32700000E+00
.33700000E+00
.39700000E+00
.50000000E-01
.10900000E+00
.12300000E+00
.12700000E+00
.11100000E+00
.11600000E+00
.13000000E+00
.19900000E+00
.30800000E+00
.38700000E+00
.40500000E+00
.37000000E+00
.30500000E+00
.32000000E+00
.36400000E+00
.12000000E+01
.10000000E+02

*** PERMANENT GENERAL DATA - - RECORD 11 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333333E+01
31	.15000000E+01	.12000000E+01	.20000000E+01	0.	0.
81	.36089239E+02	.21162200E+04	.68755900E-02	0.	.65616880E+02
86	.20805560E+02	.47268000E+03	.10498688E+03	.52559100E+01	.38997000E+03
91	.34163400E+02	.54864100E+00	.18131000E+02	.11434500E+03	.41157000E+03
96	.12201200E+02	.15419948E+03	.51867000E+03	.15361900E+01	.38997000E+03
101	.30400000E-05	.53300000E+02	.14000000E+01	.35661600E+01	.13500000E+01
106	.30000000E+00	.50000000E+00	.46000000E+03	.75000000E-01	.15650000E+02
111	.51800000E+02	.80000000E+00	.50000000E-01	.12530000E+02	.10190560E+01
116	.28915600E-01	.13501120E+01	.66431900E+00	.40000000E+03	.60262700E-02
121	.80725000E-01	.31650300E+01	.15885240E+01	.15000000E+01	.25000000E+01
126	.77047600E+00	.14825150E+00	.43717580E+01	.11000000E+04	.90000000E+03
131	.15381160E+01	.30296970E+00	.48723350E+00	.21149690E+01	.70000000E+03
141	.16000000E+01	.98400000E+00	.74000000E-02	.46531260E+00	.20000000E+04
146	.97500000E+00	.97500000E+00	.97500000E+00	.26300000E-01	0.
151	.20000000E+01	.10000000E+02	.50000000E+00	0.	.15000000E+01
156	.10000000E+02	.50000000E+00	.10000000E+01	.40000000E+01	.12000000E+02
161	.15000000E-01	.40000000E+00	.95000000E+00	.25000000E-03	.50000000E+01
166	.60000000E+00	.80000000E+00	.10000000E+01	.13500000E+01	.25000000E+00
171	.50000000E+03	.64200000E-02	.43000000E+00	.41400000E+00	.16800000E+00
176	.44600000E+00	.43000000E-01	.12100000E+00	.25000000E-01	.63270000E+02
181	.10000000E+01	.43000000E+00	.37600000E+00	.12200000E+00	.87300000E+00
186	.35700000E+00	.48900000E+00	.39000000E-01	.13720000E+02	.10000000E+01
191	.43000000E+00	.41160000E+00	.77560000E+00	.21360000E+00	.21920000E+00
196	.85000000E+00	.15000000E+00	.11240000E+01	.17200000E+00	.47000000E-01
201	.45000000E-01	.24100000E+00	.52000000E-01	.10000000E+01	.55000000E+00
206	.48000000E+00	0.	.53200000E+00	.12800000E+00	.12400000E+00
211	.38000000E-01	.17800000E+00	.72400000E+00	.27400000E+00	.29000000E+00
216	0.	.10000000E+00	.70000000E+00	.33000000E+00	.25000000E+00
221	.20000000E+00	.50000000E+00	.50000000E+03	0.	0.

*** AIRFOIL DATA - - RECORD 36 ***

1	0.	-.93446323E+01	.27177208E+02	-.21381634E+02	-.13898283E+01
6	.49994110E-01	-.12790081E+00	-.12790081E+00	-.13299356E+00	.46015690E+00
11	.29000000E+01	.10000000E+01	.10000000E+01	0.	-.13072505E+02
16	.40148160E+02	-.37666393E+02	.71783256E+01	.34124120E+01	.44394160E-01
21	-.13256331E+00	-.12243159E+00	.46448983E+00	.40770000E+00	.29000000E+01
26	.10000000E+01	0.	-.15743626E+02	.51059018E+02	-.53258400E+02
31	.16314251E+02	.16287570E+01	.26804980E-01	-.14113970E+00	-.90883710E-01
36	.47987043E+00	.40060000E+00	.29000000E+01	.10000000E+01	-.29905134E+02
41	.92841304E+02	-.95967205E+02	.36407634E+02	-.67531984E+01	.33765992E+01
46	-.16400000E-02	-.15016514E+00	-.44901980E-01	.49728155E+00	.39270000E+00
51	.29000000E+01	.10000000E+01	0.	0.	0.
56	0.	.10000000E+01	0.	-.16020000E-03	-.16638169E+00
61	.20004000E-03	.49973682E+00	.33330000E+00	.13140000E+01	.13140000E+01
66	0.	0.	.16000000E+02	-.32000000E+02	.16000000E+02
71	0.	0.	0.	.12500000E+00	.25000000E+00
76	.12500000E+00	.25000000E+00	.25000000E+00	0.	0.

*** 6J DATA - - RECORD 37 ***

1	-.11160000E+01	.14813000E+04	.22500000E+02	.80000000E+00	.40000000E+00
6	.70000000E+00	.98481000E+00	.17365000E+00	.14814815E+00	.10000000E+01
11	.10000000E-04	.32174000E+02	.25880000E+02	0.	0.
16	0.	0.	.20000000E+02	0.	.15000000E+02
21	0.	.02000000E+00	.66000000E+00	.70000000E+00	.76000000E+00
26	.82000000E+00	.86000000E+00	.90000000E+00	.94000000E+00	.97000000E+00
31	.10000000E+01	.10400000E+01	.10900000E+01	.11400000E+01	.12400000E+01
36	.13200000E+01	.14000000E+01	.16000000E+01	.18000000E+01	.20000000E+01
41	.14600000E+06	.14000000E+06	.14600000E+06	.14600000E+06	.14600000E+06
46	.14600000E+06	.15200000E+06	.16500000E+06	.18300000E+06	.18000000E+06
51	.14000000E+06	.18400000E+06	.18000000E+06	.16800000E+06	.15000000E+06
56	.14000000E+06	.13000000E+06	.11400000E+06	.10500000E+06	.10000000E+06
61	.36600000E+06	.36600000E+06	.36300000E+06	.35500000E+06	.33200000E+06
66	.31600000E+06	.30400000E+06	.30300000E+06	.29700000E+06	.29400000E+06
71	.29000000E+06	.28500000E+06	.28100000E+06	.27400000E+06	.26800000E+06
76	.26300000E+06	.25400000E+06	.24800000E+06	.24000000E+06	.23500000E+06

*** MATERIAL NUMER 1 - - RECORD 41 ***

2024-181 AL CLAU SHEFT 0.063 TO 0.249 IN. MII-HDRK-5 S DATA EST.
REF. TABLE 3.2.3.0(D) PAGE 258 8-09-72

1	.10000000E+01	.10000000E+00	.10700000F+08	.40220000E+07	.16000000E+00
6	.50900000E+00	.31200000F+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.4252336E-02	.73271020E-02	.45500000E+05	.80000000E+02
116	.53600000E+05	.55700000E+05	.57000000E+05	.4252336E-02	.50300000E+05
121	.45500000E+05	.50300000E+05	.53600000E+05	.55700000E+05	.73271020E-02
126	.65000000E+05	.39000000E+05	.12700000F+06	0.	.57000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMER 2 - - RECORD 42 ***

2024-1851 AL BARE PLATE 0.5 TO 1.0 IN. DEF-AF1.90/1.10
120 HRS AT 290 DEG WIL-HDRK-5 S DATA 10-24-69

1	.20000000E+01	.10000000E+00	.10700000E+08	.40225600E+07	.16000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.43458000E-02	.74673000E-02	.46500000E+05	.80000000E+02
116	.55200000E+05	.57200000E+05	.58500000F+05	.43458000E-02	.52100000E+05
121	.46500000E+05	.52100000F+05	.55200000E+05	.57200000E+05	.74673000E-02
126	.66000000E+05	.38000000E+05	.11700000E+06	0.	.58500000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
136	.34500000E+00	.4190476E-02	.7285714E-02	.44000000E+05	.20000000E+03
141	.52300000E+05	.54200000E+05	.55500000F+05	.4190476E-02	.49100000E+05
146	.44000000E+05	.49100000E+05	.52300000E+05	.54200000E+05	.7285714E-02
151	.61500000E+05	.35500000E+05	.10900000E+06	0.	.55500000E+05
156	.76000000E+00	.50000000E+00	.10000000F+01	.10000000E+01	.22500000E+00
161	.35800000E+00	.3872549E-02	.68529410E-02	.39500000E+05	.30000000E+03
166	.47000000E+05	.48500000E+05	.49500000F+05	.3872549E-02	.44300000E+05
171	.39500000E+05	.44300000E+05	.47000000F+05	.48500000E+05	.68529410E-02
176	.55000000E+05	.31500000E+05	.97500000E+05	0.	.49500000E+05
181	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMER 3 - - RECORD 43 ***

2024-1851 AL PLATF 1.0 TO 3.0 IN. REF-BA2.A 2-5-70
390 HRS AT 265 DEG. MIL-MARK-5 S VALUES PFR ALCOA 2-09-70

1	.30000000E+01	.10000000E+00	.10770000E+08	.40225600E+07	.16000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.41590000E-02	.70930000E-02	.44500000E+05	.80000000E+02
116	.51900000E+05	.53500000E+05	.54500000E+05	.41590000E-02	.49100000E+05
121	.44500000E+05	.49100000E+05	.51900000E+05	.53500000E+05	.70930000E-02
126	.65000000E+05	.37500000E+05	.10900000E+06	0.	.54500000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
136	.33400000E+00	.40950000E-02	.70480000E-02	.43000000E+05	.16500000E+03
141	.50500000E+05	.52000000E+05	.53000000E+05	.40950000E-02	.47900000E+05
146	.43000000E+05	.47900000E+05	.50500000E+05	.52000000E+05	.70480000E-02
151	.62500000E+05	.36000000E+05	.10600000E+06	0.	.53000000E+05
156	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
161	.33600000E+00	.40480000E-02	.69520000E-02	.42500000E+05	.19700000E+03
166	.49700000E+05	.51200000E+05	.52000000E+05	.40480000E-02	.47100000E+05
171	.42500000E+05	.47100000E+05	.49700000E+05	.51200000E+05	.69520000E-02
176	.61000000E+05	.35000000E+05	.10400000E+06	0.	.52000000E+05
181	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
186	.33900000E+00	.38830000E-02	.67570000E-02	.40000000E+05	.26500000E+03
191	.46900000E+05	.48200000E+05	.49000000E+05	.38830000E-02	.44500000E+05
196	.40000000E+05	.44500000E+05	.46900000E+05	.48200000E+05	.67570000E-02
201	.56500000E+05	.32500000E+05	.98000000E+05	0.	.49000000E+05
206	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
211	.34300000E+00	.35500000E-02	.63000000E-02	.35500000E+05	.35000000E+03
216	.41500000E+05	.42500000E+05	.43000000E+05	.35500000E-02	.39100000E+05
221	.35500000E+05	.39100000E+05	.41500000E+05	.42500000E+05	.63000000E-02
226	.49000000E+05	.28000000E+05	.46000000E+05	0.	.43000000E+05
231	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 4 - - RECORD 44 ***

7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(C) PAGE 336 4-09-72

1	.4000000E+01	.10100000E+00	.10700000E+08	.40225600E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33050000E+00	.38095200E-02	.81904900F-02	.40000000E+05	.80000000E+02
116	.59000000E+05	.62900000E+05	.65000000E+05	.38095200E-02	.51200000E+05
121	.40000000E+05	.51200000E+05	.59000000E+05	.62900000E+05	.81904900E-02
126	.73000000E+05	.44000000E+05	.13900000E+06	0.	.65000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 5 - - RECORD 45 ***

7075-T6 AL BARE PLATE 0.25 TO 0.50 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(R) PAGE 334 4-06-72

1	.50000000E+01	.10100000E+00	.10500000E+08	.39000000E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.50000000E-02	.87619000E-02	.52500000E+05	.80000000E+02
116	.65000000E+05	.68750000E+05	.71000000F+05	.50000000E-02	.59700000E+05
121	.52500000E+05	.59700000E+05	.65000000E+05	.68750000E+05	.87619000E-02
126	.79000000E+05	.47000000E+05	.14200000F+06	0.	.71000000E+05
131	.76000000F+00	.50000000E+00	.10000000F+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 6 - - RECORD 46 ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

1	.60000000E+01	.10100000E+00	.10500000E+08	.39000000E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.51428570E-02	.82857140F-02	.54000000E+05	.80000000E+02
116	.62300000E+05	.64450000F+05	.66000000F+05	.51428570E-02	.59100000E+05
121	.54000000E+05	.59100000E+05	.62300000F+05	.64450000E+05	.82857140E-02
126	.81000000E+05	.45000000E+05	.97000000E+05	0.	.66000000E+05
131	.76000000E+00	.50000000E+00	.10000000F+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 7 - - RECORD 47 ***

7075-T7351 AL BARE PLATE 0.25 TO 0.50 IN. MIL-HDBK-5 S DATA EST.
REF. TABLE 3.2.7.0(H) PAGE 374 12-14-71

1	.70000000E+01	.10100000E+00	.10500000E+08	.39000000E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.43200000E-02	.74369000E-02	.44500000E+05	.80000000E+02
116	.52800000E+05	.54700000E+05	.56000000E+05	.43200000E-02	.49800000E+05
121	.44500000E+05	.49800000E+05	.52800000E+05	.54700000E+05	.74369000E-02
126	.69000000E+05	.39000000E+05	.13700000E+06	0.	.56000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 8 - - RECORD 48 ***

7050-T7351 AL BARE PLATE
ESTIMATED DESIGN VALUE 2 MAY 1972

1	.80000000E+01	.10200000E+00	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.50290000E-02	.83010000E-02	.52800000E+05	.80000000E+02
116	.63000000E+05	.65100000E+05	.66000000E+05	.50290000E-02	.58200000E+05
121	.52800000E+05	.58200000E+05	.63000000E+05	.65100000E+05	.83010000E-02
126	.76000000E+05	.42200000E+05	.97000000E+05	0.	.66000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 9 - - RECORD 49 ***

2219-T851 AL BARE SHEET AND PLATE 0.25 TO 2.0 IN.
CURVE DERIVED FROM 1852 CURVE AND T851 CHART 12 JUNE 1972

1	.90000000E+01	.10200000E+00	.10500000E+08	.40000000E+07	.27000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.36400000E-02	.64600000E-02	.39360000E+05	.80000000E+02
116	.46300000E+05	.47500000E+05	.49000000E+05	.36400000E-02	.43800000E+05
121	.39360000E+05	.43800000E+05	.46300000E+05	.47500000E+05	.64600000E-02
126	.62000000E+05	.36000000E+05	.11800000E+06	0.	.48000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 10 - - RECORD 50 ***

7178-T6 AL CLAD SHEET 0.045 TO 0.249 IN. MIL-MDBK-5 B DATA EST.
REF. TABLE 3.2.9.0(C) PAGE 369 A-09-72

1	.10000000E+02	.10200000E+00	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.49047610E-02	.91428570E-02	.51500000E+05	.80000000E+02
116	.67800000E+05	.72500000E+05	.75000000E+05	.49047610E-02	.61000000E+05
121	.51500000E+05	.61000000E+05	.67800000E+05	.72500000E+05	.91428570E-02
126	.80000000E+05	.48000000E+05	.15200000E+06	0.	.75000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 11 - - RECORD 51 ***

7178-T6 AL BARE SHEET 0.045 TO 0.249 IN. REF-FX-45 1-25-68
120 HRS AT 280 DEG. MIL-MDBK-5 B DATA

1	.11000000E+02	.10200000E+00	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.49047610E-02	.91428570E-02	.51500000E+05	.80000000E+02
116	.67800000E+05	.72500000E+05	.75000000E+05	.49047610E-02	.61000000E+05
121	.51500000E+05	.61000000E+05	.67800000E+05	.72500000E+05	.91428570E-02
126	.80000000E+05	.49000000E+05	.15350000E+06	0.	.75000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
136	.35500000E+00	.51578940E-02	.87368420E-02	.49000000E+05	.28000000E+03
141	.58400000E+05	.61400000E+05	.64000000E+05	.51578940E-02	.54600000E+05
146	.49000000E+05	.54600000E+05	.58400000E+05	.61400000E+05	.87368420E-02
151	.59500000E+05	.46000000E+05	.11300000E+06	0.	.64000000E+05
156	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00

*** MATERIAL NUMBER 12 - - RECORD 52 ***

7019-1651 AL HARE PLATE 0.25 TO 1.50 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.8.0(1) PAGE 358 2-24-72

1	.12000000E+02	.99000000E-01	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.43810000E-02	.80000000E-02	.52800000E+05	.80000000E+02
116	.57900000E+05	.61100000E+05	.63000000E+05	.43910000E-02	.52800000E+05
121	.46000000E+05	.52800000E+05	.57900000E+05	.61100000E+05	.80000000E-02
126	.71000000E+05	.42000000E+05	.11400000E+06	0.	.63000000E+05
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.22500000E+00
					0.

*** MATERIAL NUMBER 13 - - RECORD 53 ***

6AL-4V 11-A* SHI/PLATE TO .250 IN. REF-TF1.90/1.10 2-22-69
120 MHS AT 290 NFG. WIL-HDBK-5 R DATA

1	.13000000E+02	.16000000E+00	.16400220F+08	.61655000E+07	.27000000E+00
6	.77100000E+00	.30400000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.12560000E-02	.10414600E-01	.11900000E+06	.80000000E+02
116	.13200000E+06	.13550000E+06	.13800000E+06	.72560000E-02	.12700000E+06
121	.11900000E+06	.12700000E+06	.13200000E+06	.13550000E+06	.10414600E-01
126	.13900000E+06	.81000000E+05	.25000000E+06	0.	.13800000E+06
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00
136	.33600000E+00	.65347000E-02	.99365000E-02	.10300000E+06	.20000000E+03
141	.11850000E+06	.12220000E+06	.12500000E+06	.65397000E-02	.11160000E+06
146	.10300000E+06	.11160000E+06	.11850000E+06	.12220000E+06	.99365000E-02
151	.12600000E+06	.74500000E+05	.25000000E+06	0.	.12500000E+06
156	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00
161	.33825000E+00	.65326000E-02	.97813000E-02	.10097500E+06	.24500000E+03
166	.11440000E+06	.11790000E+06	.12027500E+06	.65326000E-02	.10900000E+06
171	.10097500E+06	.10900000E+06	.11440000E+06	.11790000E+06	.97813000E-02
176	.12250000E+06	.72250000E+05	.24055000E+06	0.	.12027500E+06
181	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00
186	.34100000E+00	.65232000E-02	.95828000E-02	.98500000E+05	.30000000E+03
191	.10960000E+06	.11260000E+06	.11450000E+06	.65232000E-02	.10530000E+06
196	.98500000E+05	.10530000E+06	.10960000E+06	.11260000E+06	.95828000E-02
201	.11700000E+06	.69500000E+05	.22900000E+06	0.	.11450000E+06
206	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00
211	.35100000E+00	.60932000E-02	.90609000E-02	.85000000E+05	.50000000E+03
216	.95100000E+05	.97400000E+05	.98500000E+05	.60932000E-02	.91200000E+05
221	.85000000E+05	.91200000E+05	.95100000E+05	.97400000E+05	.90609000E-02
226	.10700000E+06	.62500000E+05	.20942700E+06	0.	.98500000E+05
231	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00

*** MAJFIAL NUMBER 14 - - RECORD 54 ***

6AL-4V II-A*PLAIE 3/16 TO 4.0 IN. REF- SNM IIR-9.5.1.3.11
9-13-72 390 HRS AT 265 DEG. MIL-HDRK-5 S DATA

1	.14000000E+02	.16000000E+00	.164000000F+08	.61657900E+07	.27000000E+00
6	.77100000E+00	.30400000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.33000000E+00	.64634000E-02	.96829000E-02	.10600000E+06	.80000000E+02
116	.12100000E+06	.12400000E+06	.12600000E+06	.64634000E-02	.11500000E+06
121	.10600000E+06	.11500000E+06	.12100000E+06	.12400000E+06	.96829000E-02
126	.13000000E+06	.76000000E+05	.24500000E+06	0.	.12600000E+06
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.23000000E+00
136	.33400000E+00	.61635000E-02	.93584900E-02	.98000000E+05	.16500000E+03
141	.11210000E+06	.11530000E+06	.11700000E+06	.61635000E-02	.10400000E+06
146	.98000000E+05	.10400000E+06	.11210000E+06	.11530000E+06	.93584900E-02
151	.12100000E+06	.71500000E+05	.23400000E+06	0.	.11700000E+06
156	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.23000000E+00
161	.33600000E+00	.60828000E-02	.92611400E-02	.95500000E+05	.19700000E+03
166	.10890000E+06	.11220000E+06	.11400000E+06	.60828000E-02	.10370000E+06
171	.95500000E+05	.10370000E+06	.10890000E+06	.11220000E+06	.92611400E-02
176	.11800000E+06	.70000000E+05	.22800000E+06	0.	.11400000E+06
181	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.23000000E+00
186	.33900000E+00	.58820000E-02	.89934000E-02	.90000000E+05	.26500000E+03
191	.10250000E+06	.10500000E+06	.10700000E+06	.58820000E-02	.98300000E+05
196	.90000000E+05	.98300000E+05	.10250000E+06	.10500000E+06	.89934000E-02
201	.11250000E+06	.67000000E+05	.21600000E+06	.10500000E+06	.10700000E+06
206	.70000000E+00	.50000000E+00	.10000000E+01	0.	.23000000E+00
211	.34300000E+00	.57432000E-02	.88243000E-02	.10000000E+01	.35000000E+03
216	.97900000E+05	.10000000E+06	.10100000E+06	.85000000E+05	.93500000E+05
221	.65000000E+05	.93500000E+05	.97900000E+05	.57432000E-02	.88243000E-02
226	.10650000E+06	.64000000E+05	.20200000E+06	.10000000E+06	.10100000E+06
231	.70000000E+00	.50000000E+00	.10000000E+01	0.	.23000000E+00

*** MATERIAL NUMBER 15 - - RECORD 55 ***

MATL NO 15

9NI-4CO-2C STEEL REF. IIR-9 MATERIALS MANUAL
BAR,SHEET,PLATE,FORGING

1	.15000000E+02	.28300000E+00	.29500000E+08	.11100000E+08	.65000000E+00
6	.75000000E+00	.30000000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.30000000E+00	.47000000E-02	.83510000E-02	.13912000E+06	.80000000E+02
116	.17450000E+06	.18300000E+06	.18800000E+06	.47000000E-02	.16050000E+06
121	.13912000E+06	.16050000E+06	.17450000E+06	.18300000E+06	.83510000E-02
126	.19000000E+06	.11800000E+06	.29800000E+06	0.	.18800000E+06
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00

*** MATERIAL NUMBER 16 - - RECORD 56 ***

MATL NO 16

1/-4 PH STEEL BAR,FORGING REF.BRIHN TABLE B1.1

1	.16000000E+02	.28200000E+00	.27500000E+08	.11000000E+08	.45000000E+00
6	.63100000E+00	.33300000E+00	0.	0.	0.
106	0.	0.	0.	0.	0.
111	.27200000E+00	.47270000E-02	.80000000E-02	.13000000E+06	.80000000E+02
116	.15700000E+06	.16200000E+06	.16500000E+06	.47270000E-02	.14800000E+06
121	.13000000E+06	.14800000E+06	.15700000E+06	.16200000E+06	.80000000E-02
126	.18000000E+06	.12000000E+06	.30000000E+06	0.	.16500000E+06
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+00

*** MATERIAL NUMBER 17--RECORD 57 ***

MAYL NO 17		RENE 41		PLATE T. IS GREATER THAN 0.187		4/2/73	
DATA ESTIMATED FROM MIL-HDBK-58		PP. 6-76 TO 6-81		EXPOSURE UP TO 1			
1	17.0	0.298	0.300	31600000.0	12100000.0	0.65	
6	0.700	0.300	0.300	0.00275	0.0056	86000.0	
110	80.0	0.31	0.31	109000.0	113000.0	0.00275	
115	67000.0	103800.0	103800.0	97000.0	103800.0	109000.0	
120	0.0056	86000.0	86000.0	118000.0	253000.0	1.0	
125	113000.0	170000.0	170000.0	0.5	1.0	82000.0	
130	0.28	0.7	0.7	0.0028	0.0057	0.0028	
135	400.0	0.31	0.31	106000.0	109500.0	106000.0	
140	94000.0	101000.0	101000.0	94000.0	101000.0		
145	0.0057	83000.0	83000.0	107400.0	240000.0	1.0	
150	109500.0	158000.0	158000.0	0.5	1.0	82000.0	
155	0.28	0.7	0.7	0.003	0.0059	0.003	
160	800.0	0.31	0.31	104500.0	108000.0	104500.0	
165	93000.0	100000.0	100000.0	93000.0	100000.0		
170	0.0058	82000.0	82000.0	106000.0	227700.0	1.0	
175	108000.0	153000.0	153000.0	0.5	1.0	81000.0	
180	0.28	0.7	0.7	0.0033	0.0063	0.0033	
185	1200.0	0.31	0.31	103000.0	107000.0	103000.0	
190	92000.0	98500.0	98500.0	92000.0	98500.0		
195	0.0063	81000.0	81000.0	105200.0	215000.0	1.0	
200	107000.0	148000.0	148000.0	0.5	1.0	67000.0	
205	0.28	0.7	0.7	0.003	0.0058	0.003	
210	1400.0	0.31	0.31	85000.0	88000.0	85000.0	
215	75500.0	81000.0	81000.0	75500.0	81000.0		
220	0.0058	67000.0	67000.0	105000.0	202000.0	1.0	
225	88000.0	127500.0	127500.0	0.5	1.0	37000.0	
230	0.28	0.7	0.7	0.0022	0.00475	0.0022	
235	1600.0	0.31	0.31	47800.0	48500.0	47800.0	
240	43000.0	46000.0	46000.0	43000.0	46000.0		
245	0.00475	37000.0	37000.0	64900.0	121400.0	1.0	
250	48500.0	86700.0	86700.0	0.5	1.0		
255	0.28	0.7	0.7				

*** GENERAL DATA - - RECORD 11 ***

1	.10000000E+01	.20000000E+01	.30000000F+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000F+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000F+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14000000E+03	.24000000F+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	0.	.13333333E+01
31	.15000000E+01	.12000000F+01	.20000000E+01	0.	0.
81	.36089239E+02	.21162200E+04	.68755900E-02	.52559100E+01	.65616880E+02
86	.20405560E+02	.47268000E+03	.10498688E+03	.11434500E+03	.38997000E+03
91	.34163400E+02	.54864100E+00	.18131000E+02	.15341900E+01	.41157000E+03
96	.12201200E+02	.15419948E+03	.51867000E+03	.35661600E+01	.38997000E+03
101	.30400000E-05	.53300000E+02	.14000000F+01	.75000000E-01	.13500000E+01
106	.30000000E+00	.50000000E+00	.46000000F+03	.12530000E+02	.15650000E+02
111	.51800000E+02	.80000000E+00	.50000000E-01	.40000000E+03	.10190560E+01
116	.28915600E-01	.13501120E+01	.66431900E+00	.15000000E+01	.60262700E-02
121	.80725000E-01	.31650300E+01	.15885240E+01	.11000000E+04	.25000000E+01
126	.77047600E+00	.14825150E+00	.43717580F+01	.21149690E+01	.90000000E+03
131	.15381160E+01	.30296970E+00	.48723350E+00	.46531260E+00	.70000000E+03
141	.16000000E+01	.98400000E+00	.74000000E-02	.26300000E-01	.20000000E+04
146	.97500000E+00	.97500000E+00	.97500000E+00	0.	0.
151	.20000000E+01	.10000000E+02	.50000000F+00	.40000000E+01	.15000000E+01
156	.10000000E+02	.50000000E+00	.10000000F+01	.25000000E+01	.12000000E+02
161	.15000000E-01	.40000000E+00	.95000000E+00	.50000000E-03	.50000000E+01
166	.60000000E+00	.80000000E+00	.10000000F+01	.13500000E+01	.25000000E+00
171	.50000000E+03	.64200000E-02	.43000000F+00	.41400000E+00	.16800000E+00
176	.89600000E+00	.43000000E-01	.12100000E+00	.25000000E-01	.63270000E+02
181	.10000000E+01	.43000000E+00	.37500000E+00	.12200000E+00	.87300000E+00
186	.35700000E+00	.48900000E+00	.39000000E-01	.13720000E+02	.10000000E+01
191	.43000000E+00	.41160000E+00	.77560000E+00	.21360000E+00	.21920000E+00
196	.85000000E+00	.15000000E+00	.11240000E+01	.17200000E+00	.47000000E-01
201	.65000000E-01	.24100000E+00	.52000000E-01	.10000000E+01	.55000000E+00
206	.48000000E+00	0.	.53200000E+00	.12800000E+00	.12400000E+00
211	.38000000E-01	.17800000E+00	.72400000E+00	.27400000E+00	.29000000E+00
216	0.	.10000000E+00	.70000000E+00	.33000000E+00	.25000000E+00
221	.20000000E+00	.50000000E+00	.50000000E+03	0.	0.
701	.31000000E+02	0.	0.	0.	.10000000E+01
706	0.	0.	.10000000F+01	0.	0.

721	31800000E+06	0.	30000000E+05	31610000E+06	9316500E+03	25750000E+06
726	0.	0.	20000000E+01	12000000E+05	0.	0.
731	25000000E+01	0.	14700000E+03	10000000E+01	20000000E+01	10000000E+01
736	50000000E+00	0.	12000000E+02	10300000E+03	60000000E+01	10000000E+02
741	28000000E+02	0.	35475000E+03	61700000E+02	41500000E+02	92000000E+03
746	99177000E+03	0.	68000000E+00	94000000E+02	10500000E+03	0.
751	57400000E+00	0.	10000000E+05	81400000E+00	85000000E+00	85000000E+00
756	0.	0.	26000000E+01	20000000E+05	22500000E+05	50000000E+05
761	26000000E+01	0.	37140000E+04	26000000E+01	20000000E+01	20000000E+01
766	0.	0.	0.	0.	80000000E+04	0.
796	0.	0.	13800000E+04	0.	35770000E+04	18759000E+05
801	0.	0.	14890000E+04	23600000E+03	32000000E+03	14400000E+03
806	21200000E+03	0.	26480000E+04	26500000E+04	23470000E+04	55400000E+03
811	11220000E+04	0.	21640000E+04	0.	95000000E+02	0.
816	33200000E+04	0.	11218000E+04	41000000E+03	0.	11300000E+03
821	86000000E+03	0.	0.	0.	0.	23600000E+03
836	0.	0.	95340000E+03	66200000E+03	84567000E+03	77410000E+03
841	0.	0.	88190000E+03	65750000E+03	76830000E+03	80390000E+03
846	84080000E+03	0.	80990000E+03	75361000E+03	59240000E+03	84470000E+03
851	54500000E+03	0.	10019000E+04	0.	12280000E+04	0.
856	59680000E+03	0.	0.	0.	0.	30000000E+03
861	35130000E+03	0.	12920000E+04	94800000E+03	67640000E+05	85297000E+03
871	70000000E+05	0.	41500000E+03	0.	85800000E+03	49040000E+05
881	88700000E+03	0.	0.	0.	0.	10473400E+04
891	45200000E+03	0.	0.	0.	0.	78000000E+02
896	32500000E+03	0.	0.	0.	0.	0.
911	10000000E+01	0.	40300000E+03	17180000E+04	10000000E+01	10000000E+01
921	10000000E+01	0.	85197500E+01	41746600E+00	97191000E+00	10000000E+01
931	10000000E+01	0.	77700000E+02	64876000E+03	41528680E+00	57279770E+00
941	32000000E+03	0.	16327400E+00	0.	40000000E+01	0.
951	30028300E+04	0.	0.	61246700E+00	28109000E+02	0.
956	0.	0.	92000000E+02	0.	0.	0.
961	28400000E+03	0.	52480000E+01	64100000E+03	32300000E+00	50000000E+02
966	37750000E+00	0.	0.	36987000E+00	25000000E+02	25000000E+00
986	0.	0.	10500000E+00	17181700E+04	0.	0.
1001	48300000E+03	0.	0.	10000000E+01	0.	0.
1006	0.	0.	0.	0.	0.	0.
1011	55866000E+03	0.	0.	0.	0.	0.
1016	40000000E+00	0.	0.	0.	0.	0.

1041	.41600000E+03	.12410000F+01	.60893400E+00	.35000000E+02	.25000000E+00
1046	0.	0.	.15448000E+04	0.	0.
1051	.28600000E+03	.13000000E+00	.10000000E+01	0.	0.
1056	.40000000E+00	0.	0.	0.	0.
1081	.10000000E+01	.19000000E+02	0.	0.	0.
1086	.23040000E+03	.28000000E+03	.35000000F+03	.44000000E+03	.12000000E+04
1091	.13000000E+04	.14000000E+04	.15200000E+04	.16800000E+04	.18179000E+04
1096	.20000000E+03	.20000000E+03	.20000000F+03	.20000000E+03	.20000000E+03
1101	.22500000E+03	.24000000E+03	.25200000E+03	.26200000E+03	.27000000E+03
1106	0.	.10120000E+03	.15020000E+03	.17000000E+03	.17000000E+03
1111	.16800000E+03	.15850000E+03	.13370000E+03	.75700000E+02	0.
1116	0.	.10120000E+03	.15020000F+03	.17000000E+03	.17000000E+03
1121	.16800000E+03	.15850000E+03	.13370000F+03	.75700000E+02	0.
1126	0.	.31800000E+03	.47200000E+03	.53400000E+03	.53400000E+03
1131	.52800000E+03	.49800000E+03	.42000000F+03	.23800000E+03	0.
1136	.27200000E+03	.34900000E+03	.35300000E+03	.45200000E+03	.60000000E+03
1141	.73200000E+03	.73600000E+03	.84600000E+03	.95600000E+03	.96000000E+03
1146	.99600000E+03	.10000000E+04	.11420000F+04	.12920000E+04	.13980000E+04
1151	.16390000E+04	.16430000E+04	.17260000F+04	.17300000E+04	0.
1161	.40000000E+01	.12000000E+01	.20000000E+01	.16480000E+04	.40000000E+01
1166	.60000000E+01	.40000000E+01	.21000000E+05	.46900000E+04	.18700000E+03
1171	.45000000E+02	.88200000E+02	.64800000E+03	.28500000E+03	.19271000E+03
1176	.73700000E+03	.46000000E+03	.18552000F+03	0.	.70000000E+02
1181	0.	.17100000E+03	.40000000E+02	.17100000E+03	.40000000E+02
1186	.10000000E+00	0.	0.	0.	0.
1201	.10000000E+01	.30000000E+01	0.	0.	0.
1211	0.	.60000000E+01	0.	0.	0.
1241	.47000000E+02	.50000000E+02	.12000000E+02	0.	0.
1251	.47000000E+02	.50000000E+02	.52500000E+02	0.	0.
1261	.14770000E+03	.15710000E+03	.16500000E+03	0.	0.
1291	.20000000E+01	.10000000E+02	0.	0.	0.
1296	0.	0.	0.	0.	0.
1301	0.	.10000000E+02	.20000000E+02	.66000000E+02	.66000000E+02
1306	.12000000E+03	.14000000E+03	.16000000E+03	.40000000E+02	.60000000E+02
1331	.48000000E+02	.63000000E+02	.66000000E+02	.18000000E+03	.19921800E+03
1336	.65500000E+02	.65000000E+02	.63500000E+02	.66000000E+02	.66000000E+02
1341	.48000000E+02	.63000000E+02	.66000000E+02	.60000000E+02	.54000000E+02
1346	.65500000E+02	.65000000E+02	.63500000E+02	.66000000E+02	.66000000E+02
1351	.10000000E+01	.10000000E+01	.10000000E+01	.60000000E+02	.54000000E+02
1356	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01

*** FATIGUE DATA - - RECORD 29 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453290E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	0.
51	.11200000E+01	.89300000E+00	.79200000E-01	.17900000E+00	.33100000E+01
56	.25000000E+00	.81400000E+02	.75000000E+00	.10000000E+09	.10000000E+07
61	.15000000E-01	.10000000E-02	.10000000E-01	-.16666670E+00	0.
76	0.	0.	.50000000E+00	.10000000E+10	.10000000E+01
81	.50000000E-01	0.	0.	0.	0.
106	0.	0.	.10000000E+02	0.	0.
111	0.	0.	.40000000E+01	.40000000E+01	.30000000E+01
116	.30000000E+01	.40000000E+01	.30000000E+01	0.	0.
1196	0.	0.	0.	0.	0.
1201	.86000000E+01	0.	0.	0.	.10000000E+01
1401	.20000000E+05	0.	0.	0.	0.

*** KING DATA - - RECORD 23 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42920000E+00	.75000000E+00	.10000000E-02
31	.10100000E+01	.60000000E-01	.10000000E+02	.10000000E-01	.45000000E-01
36	.95000000E+00	.94500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.83000000E+00
46	.17000000E+00	.50000000E+01	.14000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E-02	.13333300E+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E+01
61	.15600000E+00	.14333000E+01	.12500000E+01	.10000000E-03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E-01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
81	.31610000E+06	0.	0.	0.	.25000000E+01
86	.10000000E+01	.54000000E+03	.31610000E+06	.11694000E+06	0.
91	.11694000E+06	0.	.10000000E+01	0.	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.12000000E+00
126	.63500000E+00	.37750000E+00	0.	.10000000E+01	.49369022E-01
131	.14187151E+00	.12342674E+00	.47136354E+00	.40410000E+00	.12000000E+00
136	.63500000E+00	.37750000E+00	.25000000E+00	.95000000E+03	0.
141	0.	.10000000E+01	.20000000E+01	.50000000E-01	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	0.	0.
176	.64876000E+03	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383540E+01	.72665000E+00	.44000000E+01	0.
201	0.	0.	0.	0.	.10000000E+01
206	.78000000E+02	.28500000E+03	.37200000E-01	.10000000E+01	.34160000E+05
211	.12000000E-01	0.	.41500000E+03	.94800000E+03	.28100000E-01
216	.10000000E+01	.24310000E+05	.12000000E-01	0.	0.

231	0.	.80000000E+00	.10000000E+01	.10000000E+01	.30025000E+04
236	0.	.41750000E+00	.15540000E+03	0.	.30025000E+04
241	0.	.25000000E+02	.16340000E+00	0.	.61237000E+00
246	0.	.91840000E+00	0.	0.	.10000000E+01
251	0.	.40000000E+00	.60000000E+01	.10000000E+01	0.
256	0.	0.	0.	.80000000E+02	0.
271	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	.80000000E+00
291	0.	.10500000E+04	.39000000E+07	0.	.31610000E+06
296	0.	.26000000E+11	.34000000E+11	.92000000E+05	.36600000E+03
301	0.	.13000000E+10	.33000000E+11	.82500000E+00	0.
306	0.	.10500000E+08	.39000000E+07	.11500000E+01	0.
311	0.	.10000000E+01	.90000000E+00	.10000000E+01	.97500000E+00
316	0.	0.	.10000000E+01	0.	0.
336	0.	0.	0.	0.	.30025000E+04
341	0.	.41750000E+00	.15540000E+03	.16330000E+00	.61237000E+00
361	0.	.40000000E+01	.42600000E+00	.40000000E+01	.50000000E+00
366	0.	.20000000E+01	.10000000E+01	.30000000E+01	.50000000E+01
371	0.	.40000000E+01	.64000000E+01	.34000000E+01	.22000000E+02
376	0.	.10000000E+01	.30000000E+01	.50000000E+00	.42500000E+01
381	0.	.10000000E+01	.30000000E+01	0.	.10000000E+01
386	0.	.10000000E+01	.10000000E+01	0.	0.
391	0.	.40000000E+00	.10000000E+01	0.	0.
396	0.	.50000000E+01	.45000000E+00	0.	.12100000E+01
401	0.	.14250000E+01	.50000000E+00	.10000000E+01	.20000000E+01
406	0.	.10000000E+01	.59000000E+00	.31200000E+00	.10250000E+01
411	0.	.97500000E+00	.97500000E+00	0.	0.
416	0.	0.	.87500000E+00	.87500000E+00	.60000000E+01
421	0.	.20000000E+01	.17500000E+01	.20000000E+01	.10500000E+01
426	0.	0.	0.	0.	0.
446	0.	0.	0.	0.	.10000000E+01
451	0.	.10000000E+01	.10000000E+01	.10000000E+01	.50000000E+00
456	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
471	0.	.20000000E+01	.20000000E+01	.20000000E+01	.10000000E+01
476	0.	.10000000E+01	.10000000E+01	.10000000E+01	.22400000E+03
481	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
486	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
491	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
496	0.	.10000000E+01	.10000000E+01	.10000000E+01	.50000000E+00

501	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
516	0.	0.	0.	0.	0.
521	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
526	.14131250E+03	.78200000E+02	.25000000E+04	.10000000E+01	.10000000E+01
531	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
536	.10000000E+01	0.	0.	0.	0.
551	.10000000E+00	.20000000E+00	.30000000E+00	.40000000E+00	.50000000E+00
556	.60000000E+00	.70000000E+00	.80000000E+00	.90000000E+00	.10000000E+01
561	.42500000E+01	.45000000E+01	.46700000E+01	.48600000E+01	.50800000E+01
566	.53500000E+01	.56900000E+01	.61000000E+01	.65800000E+01	.71500000E+01
571	.77500000E+01	.50000000E+01	.10000000E+03	0.	0.
596	0.	0.	0.	0.	0.
601	.10000000E+01	.10000000E+01	.25000000E+01	.10750000E+01	.10000000E+01
606	.10750000E+01	.11000000E+01	.11000000E+01	.11000000E+01	.10750000E+01
611	.20000000E+01	.17500000E+01	.12500000E+01	.12500000E+01	.12500000E+01
616	.11000000E+01	.11500000E+01	.11500000E+01	.11500000E+01	.11000000E+01
621	.11500000E+01	.11500000E+01	.11500000E+01	.15000000E+01	.75000000E+00
626	.11500000E+01	.11500000E+01	0.	0.	0.
636	0.	0.	0.	.10000000E+01	.10000000E+01
641	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
646	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
651	0.	.12500000E+01	0.	.12500000E+01	0.
656	0.	0.	0.	0.	.15000000E+01
661	0.	0.	0.	0.	.40000000E+01
841	0.	.10500000E+01	.10500000E+01	.10500000E+01	.10500000E+01
846	.10500000E+01	.10500000E+01	.10500000E+01	.10500000E+01	.10500000E+01
851	.10500000E+01	.10500000E+01	.12000000E+01	.12000000E+01	.12000000E+01
856	.12000000E+01	.12000000E+01	.12000000E+01	.12000000E+01	.12000000E+01
861	.12000000E+01	.12000000E+01	.12000000E+01	.12000000E+01	.12000000E+01
931	.11750000E+01	.11500000E+01	.11250000E+01	.11100000E+01	.11000000E+01
936	.10900000E+01	.10800000E+01	.10700000E+01	.10600000E+01	.10500000E+01
941	.10400000E+01	.10750000E+01	.10650000E+01	.10550000E+01	.10450000E+01
946	.10350000E+01	.10250000E+01	.10150000E+01	.10050000E+01	.99500000E+00
951	.98500000E+00	.97500000E+00	0.	0.	0.
1006	0.	0.	.10000000E+01	.10000000E+01	.10000000E+01
1011	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1016	.10000000E+01	.10000000E+01	.10000000E+01	0.	0.
1086	0.	0.	.10000000E+01	.10000000E+01	.10000000E+01
1091	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01

1096	.10000000E+01	.10000000E+01	.15000000E+02	0.	0.	.20000000E+02
1141	0.	.40000000E+01	.40000000F+01	.15000000E+02	.20000000E+02	0.
1146	.60000000E+01	.60000000E+01	.40000000F+01	.40000000E+01	.20000000E+02	0.
1151	.20000000E+02	.80000000E+01	.15000000E+01	.77000000E+03	.80000000E+00	0.
1206	.10000000E+01	.10000000E+00	.25000000F+00	.10000000E+00	.80000000E+00	0.
1211	.83000000E+00	.80000000E+01	.17500000F+01	.40000000E+03	.80000000E+00	0.
1216	.10000000E+01	.10000000E+00	.25000000F+00	.10000000E+00	.80000000E+00	0.
1221	.54000000E+00	.80000000E+01	.15000000E+01	.40000000E+03	.80000000E+00	0.
1226	.10000000E+01	.10000000E+00	.25000000F+00	.10000000E+00	.80000000E+00	0.
1231	.54000000E+00	.10000000E+01	.10000000E+01	.35000000E+00	.16500000E+01	0.
1236	.10000000E+01	.10000000E+01	.70000000F+00	.95000000E+03	.10000000E+01	0.
1241	.14500000E+01	.10000000E+01	.25000000F+00	.10000000E+00	.14500000E+01	0.
1246	0.	.10000000E+00	.25000000F+00	.10000000E+00	.10000000E+01	0.
1251	.10000000E+01	.10000000E+01	.10000000E+01	.35000000E+00	.14500000E+01	0.
1256	.13500000E+01	.75000000E+00	.70000000F+00	.95000000E+03	.10000000E+01	0.
1261	0.	.10000000E+00	.25000000F+00	.10000000E+00	.14500000E+01	0.
1266	.10000000E+01	.10000000E+01	.10000000E+01	.35000000E+00	.10000000E+01	0.
1271	.13500000E+01	.75000000E+00	.70000000F+00	.95000000E+03	.10000000E+01	0.
1276	0.	.10000000E+00	.25000000F+00	.10000000E+00	.14500000E+01	0.
1281	.10000000E+01	.10000000E+01	.10000000E+01	.35000000E+00	.10000000E+01	0.
1286	.20000000E+01	.20000000E+01	.20000000E+01	.20000000E+01	.20000000E+01	0.
1291	.10000000E+01	.20000000E+01	.10000000F+01	.10000000E+01	.10000000E+01	0.
1366	.60000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
1371	.30000000E+01	.50000000E+01	.12000000F+02	.20000000E+01	.10000000E+01	0.
1376	.12000000E+02	.20000000E+01	.50000000E+00	.25000000E+00	.40000000E+01	0.
1381	.20000000E+01	.20000000E+01	.10000000F+01	.60000000E+01	.12000000E+02	0.
1386	.10000000E+01	.30000000E+01	.40000000F+01	.80000000E+01	.20000000E+01	0.
1391	.30000000E+01	.50000000E+01	.60000000F+01	.50000000E+00	.25000000E+00	0.
1396	.40000000E+01	.50000000E+01	.50000000F+00	.25000000E+00	.30000000E+01	0.
1401	.59207900E+00	.4276300E+04	.25000000F+00	.20000000E+01	.35332000E+05	0.
1406	.97110000E+03	.20786000E+05	.30570000E+00	.10000000E+01	.68750000E+05	0.
1411	.41023570E+02	.11171853E+04	.10000000E+08	.42561000E+01	.10000000E+01	0.
1416	.10000000E+01	0.	0.	.10000000E+01	.10000000E+01	0.
1431	0.	-.11160000E+01	.14800000F+04	.22500000E+02	.80000000E+00	0.
1436	.40000000E+00	.70000000E+00	.98481000E+00	.17345000E+00	.14814815E+00	0.
1441	.10000000E+01	.10000000E+04	0.	0.	.10010000E+01	0.
1456	0.	0.	0.	0.	0.	0.
1461	.99900000E+00	0.	0.	0.	.60000000E+00	0.
1466	0.	0.	0.	0.	0.	0.

1471	.13000000E+01	.15600000E+00	.10000000E+01	.10000000E+01	.18800000E+00
1476	.25000000E+00	.37500000E+00	.50000000E+00	.80000000E-01	.15600000E+00
1481	.12100000E+01	.13750000E+01	.10500000E+01	.40000000E+01	.37500000E+00
1486	.10000000E+01	.12500000E+00	.13330000E+01	.17500000E+01	.50000000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.20000000E+01	.13000000E+06
1496	.28000000E+00	.45000000E+01	0.	0.	0.
1526	0.	0.	0.	0.	0.
1531	.14500000E+00	.10000000E+01	.55100000E+00	.32000000E+00	.10000000E+01
1536	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1541	.10000000E-01	.10000000E+01	.12500000E+00	.10000000E+01	.45000000E+00
1546	.15000000E+01	.10000000E+01	.41300000E+00	.32000000E+00	.66700000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1556	.10000000E-01	.75000000E+00	.12500000E+00	.10000000E+01	.10000000E+01
1561	.90000000E+01	.17250000E+01	.77000000E-03	.80000000E+00	.33000000E+00
1566	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1571	.10000000E-01	.50000000E+00	.12500000E+00	.10000000E+01	.82000000E+00
1576	0.	0.	0.	0.	.10000000E+01
1581	.10500000E+03	.39000000E+03	.30000000E+03	.78500000E+00	.33000000E+03
1586	.91000000E+00	0.	.13610000E+01	0.	0.
1591	0.	0.	0.	0.	0.
1596	.42000000E+03	.64000000E+03	.83200000E+00	.79000000E+00	.30000000E+01
1601	.89500000E+00	0.	.14750000E+01	0.	.92000000E+00
1606	0.	0.	0.	0.	0.
1611	.10000000E+01	.95000000E+02	.40000000E+03	0.	.10000000E+01
1621	0.	0.	0.	0.	.68400000E+00
1626	.93500000E+00	.68400000E+00	0.	.93500000E+00	.77000000E+00
1631	.10000000E+01	.41000000E+03	0.	.30300000E+03	.10000000E+01
1641	0.	0.	.65000000E+03	.10000000E+01	.70500000E+00
1646	.76000000E+00	.70500000E+00	0.	.76000000E+00	.79500000E+00
1666	0.	0.	0.	.82900000E+00	0.
1671	.10000000E+01	.66500000E+03	.95800000E+03	.10000000E+01	.40000000E+01
1681	0.	0.	0.	.79200000E+00	.71500000E+00
1686	.80200000E+00	.72500000E+00	0.	.80200000E+00	.72500000E+00
1731	.10000000E+01	.80000000E-02	.80000000E+00	.10000000E+01	0.
1736	.25000000E+00	.10000000E+00	.10000000E-01	.19500000E+01	.10000000E+00
1741	.10000000E+01	.45000000E+00	.15000000E+00	.10000000E+01	.10000000E-02
1746	.69000000E+00	.14400000E+02	.25000000E+00	0.	.10000000E+01
1751	.12500000E+01	.15000000E+01	.17500000E+01	0.	.25000000E+00
1756	.10000000E+00	.10000000E-01	.25000000E+00	.10000000E+00	.10000000E+01

1761	.25000000E+00	.12500000E+00	0.	0.	0.	0.
1766	.10000000E+01	.16250000E-01	.35000000E+00	.15500000E+01	.50000000E+00	0.
1771	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00	.10000000E-01	.10000000E-01
1776	.10000000E+00	.12500000E+00	.10000000E+01	.10000000E+00	.50000000E-01	.50000000E-01
1781	0.	0.	0.	0.	.14000000E+01	.14000000E+01
1786	.77300000E+00	.35000000E+00	.30690000E+00	0.	.15000000E+01	.15000000E+01
1791	.24420000E-01	.35000000E+00	.13602700E+01	0.	.10000000E+00	.10000000E+00
1796	.28000000E+00	.40000000E+00	.55000000E+00	.10000000E+00	.10000000E+00	.10000000E+00
1801	.10000000E+00	.10000000E+00	.15000000E+00	.20000000E+00	.20000000E+00	.20000000E+00
1806	.10000000E+00	.10000000E+00	.10000000E+00	.47500000E+00	.40000000E+00	.40000000E+00
1811	.30000000E+00	.25000000E+00	.47500000E+00	.47500000E+00	.47500000E+00	.47500000E+00
1816	0.	0.	0.	0.	.10000000E+01	.10000000E+01
1821	.86000000E+03	.78000000E+02	.95000000E+03	.70000000E+00	.65000000E+00	.65000000E+00
1826	.66000000E+03	.40000000E+00	.25000000E+00	0.	0.	0.
1851	0.	0.	0.	0.	0.	0.
1856	.28500000E+03	-.16200000E+00	.83000000E+02	.10000000E+01	.78080000E+04	.78080000E+04
1861	0.	0.	.19600000E+03	.70000000E+02	0.	0.
1866	.10000000E+01	.78080000E+04	.46000000E+03	.22200000E+00	.70000000E+02	.70000000E+02
1871	.10000000E+01	0.	0.	0.	.81000000E+02	.81000000E+02
1876	.70000000E+02	.70000000E+02	.10000000E+01	0.	.19600000E+03	.19600000E+03
1901	0.	0.	0.	0.	0.	0.
1916	.10000000E+01	0.	0.	.10000000E+01	0.	0.
1936	0.	0.	0.	0.	0.	0.
1941	.75000000E+00	.10000000E+01	.75000000E+00	.75000000E+00	.75000000E+00	.75000000E+00
1946	.10000000E+01	.10000000E+01	.50000000E+00	.10000000E+01	.10000000E+01	.10000000E+01
1951	.25000000E+01	.15000000E+01	.12500000E+01	.10000000E+04	.30000000E+01	.30000000E+01
1956	.10000000E+01	.77000000E-03	.80000000E+00	.83000000E+00	.50000000E+00	.50000000E+00
1961	0.	.10000000E+00	.25000000E+00	.10000000E+00	0.	0.
1966	0.	0.	0.	.10000000E+00	0.	0.
1971	.53300000E-01	.53300000E-01	.67000000E-01	.53300000E-01	.11550000E+00	.11550000E+00
1976	.40000000E-01	.50000000E-01	.75000000E+00	.80000000E+00	.50000000E-01	.50000000E-01
1981	.80000000E+00	0.	0.	.40500000E+03	.45000000E+00	.45000000E+00
2006	0.	0.	0.	0.	0.	0.
2016	0.	0.	0.	.40500000E+03	0.	0.
2031	0.	.40500000E+03	.95969000E+03	.10000000E+00	.79000000E+02	.79000000E+02
2041	0.	.13080000E+00	.11050000E+00	0.	0.	0.

*** FUSELAGE DATA - - RECORD 24 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E+01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	0.	.13333333E+01
31	0.	0.	.50000000E+00	.25000000E+01	.25000000E+00
36	.40000000E+01	.40000000E+01	.15000000E+01	.50000000E+00	.62500000E+04
41	.50000000E+01	.42600000E+00	.40000000E+01	0.	0.
46	.90000000E+00	.75000000E+00	.50000000E+02	.75000000E+01	.20000000E+01
51	.50000000E+01	.32000000E+01	.14500000E+00	.50000000E+01	.32000000E+01
56	.10000000E+01	.50000000E+01	.25000000E+01	.10000000E+01	.90000000E+00
61	.87500000E+00	.32634338E+00	.50000000E+01	0.	0.
66	.14797570E+04	.52187000E+02	.61985800E+00	.14651750E+04	.50766950E+02
71	.64344120E+00	.29071940E+02	.19965900E+03	.48516740E+00	.11664560E+01
76	.48841200E+00	.40372030E+00	.14000000E+01	.60000000E+00	.48492710E+00
81	.55514410E+00	.16869440E+00	.21699920E+01	.96349400E+03	.11300000E+00
86	.90000000E+01	.52200000E+00	.29000000E+08	.28108000E+01	.52290000E+01
91	.60000000E+00	.16460000E+01	.89400000E+00	.39400000E+00	.12880000E+01
96	.13769000E+01	.24840000E+01	.19840000E+01	.44670000E+01	.14430000E+00
101	.17562200E+00	.13411000E+01	.12000000E+01	.10000000E+01	.78000000E+00
106	.65000000E+00	.15158600E+03	.18695000E+00	.58800000E+01	.20000000E+02
111	.75238000E+03	0.	.14000000E+00	.85000000E+00	.76118200E+03
116	.12500000E+00	.31200000E+00	.44440000E+00	.22400000E+03	.66670000E+00
121	.20000000E+01	.12000000E+02	.11000000E+01	.10000000E+01	.10000000E+02
126	.21500000E+03	.21500000E+03	.16900000E+01	.26000000E+02	.21580000E+01
131	.14800000E+04	.10500000E+05	.23000000E+00	.34800000E+00	.10258700E+00
136	.52500000E+01	.25000000E+02	.15740000E+03	.25000000E+00	.80000000E+02
141	.64000000E+03	.25000000E+03	.12500000E+03	.17500000E+00	.10000000E+02
146	.14000000E+02	.22100000E+01	.60000000E+01	.15000000E+01	.24000000E+02
151	.80000000E+01	.80000000E+01	.90000000E+01	.11450000E+02	.27600000E+01
156	.27600000E+01	.17500000E+01	.23500000E+01	.30600000E+02	.13000000E+01
161	.80000000E+00	.53000000E+01	.50000000E+01	.29000000E+01	.95000000E+01
166	0.	.12710000E+02	.93300000E+00	.40000000E+01	.55000000E+01
171	.25000000E+01	.15500000E+01	.90000000E+03	.13000000E+01	.17000000E+01
176	.19000000E+01	.15000000E+02	.20000000E+01	.17000000E+03	.19500000E+02

196	.19500000E+02	.10000000E+02	.48000000F+02	.24000000E+02	0.	.10000000E+02
201	.23000000E+03	.11000000E+02	.10000000E+02	.12000000E+03	0.	.10000000E+02
206	.79449500E+03	.20673200E+04	.10450000E+02	.28000000E+00	0.	.10000000E+02
211	.10000000E+03	.25000000E+02	.50000000F+01	.29300000E+01	0.	.50000000E+01
216	.25000000F+01	.25000000E+01	.22000000E+01	.15000000E+01	0.	.50000000E+00
221	.10000000E+00	.35000000E+01	.26000000E+01	.50000000E+01	0.	.66000000E+00
226	.48000000E+01	.33000000E+01	.22700000F+01	.14160000E+02	0.	.14131250E+03
231	.79200000E+02	.25000000E+04	.38000000F+03	.20000000E+02	0.	.20000000E+00
236	.10000000E+00	.77000000E+00	0.	0.	0.	0.
241	.31000000E+02	.19000000E+02	.10000000F+01	.20000000E+01	0.	0.
246	.40000000F+01	.50000000E+01	.50000000F+01	.40000000E+01	0.	.10000000E+02
251	0.	.40000000E+01	0.	0.	0.	.60000000E+01
256	.60000000E+01	.10200000E+04	0.	0.	0.	0.
266	0.	0.	0.	.66326500E+00	0.	0.
271	.12200000E+01	.11880000E+01	.10000000F+01	.12580000E+01	0.	.11000000E+01
276	.11000000E+01	0.	0.	0.	0.	0.
291	.23040000E+03	.26000000E+03	.35000000E+03	.44000000E+03	0.	.12000000E+04
296	.13000000E+04	.14000000E+04	.15200000F+04	.16800000E+04	0.	.18179000E+04
301	.20000000E+03	.20000000E+03	.20000000F+03	.20000000E+03	0.	.20000000E+03
306	.22500000E+03	.24000000E+03	.25200000E+03	.26200000E+03	0.	.27000000E+03
311	0.	.19120000E+03	.15020000F+03	.17000000E+03	0.	.17000000E+03
316	.16800000E+03	.15850000E+03	.13370000F+03	.75700000E+02	0.	0.
321	0.	.10120000E+03	.15020000E+03	.17000000E+03	0.	.17000000E+03
326	.16800000E+03	.15850000E+03	.13370000E+03	.75700000E+02	0.	0.
331	0.	.31800000E+03	.47200000F+03	.53400000E+03	0.	.53400000E+03
336	.52800000E+03	.49800000E+03	.42000000F+03	.23800000E+03	0.	0.
361	.27200000E+03	.34900000E+03	.35300000F+03	.45200000E+03	0.	.60000000E+03
366	.73200000E+03	.73600000E+03	.84600000F+03	.95600000E+03	0.	.96000000E+03
371	.99600000E+03	.10000000E+04	.11420000F+04	.12920000E+04	0.	.13980000E+04
376	.16390000E+04	.16430000E+04	.17260000E+04	.17300000E+04	0.	0.
441	.50000000E+00	.50000000E+00	.50000000E+00	.50000000E+00	0.	0.
446	0.	.82353000E+00	.82353000E+00	.82353000E+00	0.	0.
451	0.	0.	0.	.68400000E+00	0.	.59500000E+00
456	.44600000E+00	.44600000E+00	.36000000F+00	.36000000E+00	0.	0.
466	0.	.10000000E+01	.10000000F+01	.10000000E+01	0.	0.
481	.56000000E+02	.56000000E+02	0.	0.	0.	0.
491	0.	0.	0.	0.	0.	0.
496	.10000000E+01	.10000000E+01	.10000000F+01	.10000000E+01	0.	.10000000E+01
561	.12000000E+01	0.	0.	.10000000E+01	0.	0.

571	0.	0.	0.	0.	0.	0.	0.
601	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01
606	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01
611	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01	--.86000000E+01
621	0.	0.	0.	0.	0.	0.	0.
826	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01
831	0.	0.	0.	0.	0.	0.	0.
836	0.	0.	0.	0.	0.	0.	0.
841	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01
846	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01
856	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01	-10000000E+01
861	0.	0.	0.	0.	0.	0.	0.
871	0.	0.	0.	0.	0.	0.	0.
876	-38530000E+03	-38530000E+03	-38530000E+03	-38530000E+03	-38530000E+03	-38530000E+03	-38530000E+03
881	0.	0.	0.	0.	0.	0.	0.
886	0.	0.	0.	0.	0.	0.	0.
891	-14110000E+04	-14110000E+04	-14110000E+04	-14110000E+04	-14110000E+04	-14110000E+04	-14110000E+04
896	-84250000E+03	-84250000E+03	-84250000E+03	-84250000E+03	-84250000E+03	-84250000E+03	-84250000E+03
906	-97180000E+03	-97180000E+03	-97180000E+03	-97180000E+03	-97180000E+03	-97180000E+03	-97180000E+03
911	0.	0.	0.	0.	0.	0.	0.
921	0.	0.	0.	0.	0.	0.	0.
926	-51000000E+02	-51000000E+02	-51000000E+02	-51000000E+02	-51000000E+02	-51000000E+02	-51000000E+02
931	-60000000E+01	-60000000E+01	-60000000E+01	-60000000E+01	-60000000E+01	-60000000E+01	-60000000E+01
941	0.	0.	0.	0.	0.	0.	0.
946	0.	0.	0.	0.	0.	0.	0.
951	-127000000E+03	-127000000E+03	-127000000E+03	-127000000E+03	-127000000E+03	-127000000E+03	-127000000E+03
956	0.	0.	0.	0.	0.	0.	0.
961	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01
966	-12200000E+02	-12200000E+02	-12200000E+02	-12200000E+02	-12200000E+02	-12200000E+02	-12200000E+02
971	0.	0.	0.	0.	0.	0.	0.
976	-84100000E+03	-84100000E+03	-84100000E+03	-84100000E+03	-84100000E+03	-84100000E+03	-84100000E+03
1001	-64876000E+03	-64876000E+03	-64876000E+03	-64876000E+03	-64876000E+03	-64876000E+03	-64876000E+03
1006	-28400000E+03	-28400000E+03	-28400000E+03	-28400000E+03	-28400000E+03	-28400000E+03	-28400000E+03
1011	0.	0.	0.	0.	0.	0.	0.
1016	-28600000E+03	-28600000E+03	-28600000E+03	-28600000E+03	-28600000E+03	-28600000E+03	-28600000E+03
1026	-35475000E+03	-35475000E+03	-35475000E+03	-35475000E+03	-35475000E+03	-35475000E+03	-35475000E+03
1031	-13000000E+03	-13000000E+03	-13000000E+03	-13000000E+03	-13000000E+03	-13000000E+03	-13000000E+03
1036	-64500000E+02	-64500000E+02	-64500000E+02	-64500000E+02	-64500000E+02	-64500000E+02	-64500000E+02
1041	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01	-40000000E+01
1046	0.	0.	0.	0.	0.	0.	0.

OUTPUT TABLES AND CONTROLS

DATA MANAGEMENT MODULE

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLA00	Title page for data management module
42	(2,0)	Data Manage.	SPDALT	Speed altitude profile tables
43	(2,0)	Data Manage.	DSGNPR	Speed profile design constants
44	(2,0)	Data Manage.	QUIKIE	S array
46	(2,0)	Data Manage.	PRTOWE	Distribution of operational weight empty items between structural components
46	(2,0)	Data Manage.	PRTOWE	Expendable useful load table
45	(2,0)	Data Manage.	AVDINR	Total vehicle and component weights, CG, and inertia data RT, RW, RH, RV, RA, and RO arrays
48	(2,0)	Data Manage.	AVDATA	S array
47	(2,0)	Data Manage.	DCCNTL	WD array, data to be processed into Wing, H-tail and V-tail variable input data blocks by wing and empennage module

OUTPUT TABLES AND CONTROLS

DATA MANAGEMENT MODULE (CONCL)

IP	Overlay	Module	Subroutine	Description
47	(2,0)	Data Manage.	DMAXLD	Shear, moment and torque for Wing and contents
47	(2,0)	Data Manage.	DMAXLD	Shear, moment and torque for H-tail and contents
47	(2,0)	Data Manage.	DMAXLD	Shear, moment and torque for V-tail and contents
49	(2,0)	Data Manage	DATAIN	TCOM array, vehicle geometry and misc data dump
47	(2,0)	Data Manage.	DATAIN	BC array, loads data

•• OLAY00 - IP(40) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

•••• DATA MANAGEMENT (OVERLAY 2) ••••

•• SPOALTY - IP(42) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

••• SPEED ALTITUDE PROFILE TABLES •••

STANDARD ATMOSPHERE

ALTITUDE FEET	TEMPERATURE DEG RANKINE	DENSITY PCF	PRESSURE PSF	G	SPEED OF SOUND FT/SEC
0.0	518.670	.0765495	2116.22	32.174	1115.90
5000.0	500.839	.0659604	1740.79	32.149	1096.29
10000.0	483.008	.0565301	1455.33	32.144	1076.35
15000.0	465.178	.0481677	1194.27	32.128	1056.04
20000.0	447.347	.0407862	972.49	32.113	1035.36
21250.0	442.889	.0390844	922.63	32.109	1030.13
22500.0	438.431	.0374374	874.85	32.106	1024.87
36250.0	389.970	.0225159	469.04	32.064	965.94
50000.0	389.970	.0116530	242.21	32.022	965.31

PROFILE TABLE

ALT. FEET	V(M) MN	Q(M) PSF	M2	PT2/PT0 MN	RAM T DEG R	PT2 PSI	V(L) MN	Q(L) PSF	M2	PT2/PT0 MN	RAM T DEG R	PT2 PSI	P2 PSI
0.0	.57	488.07	.50	1.0000	552.85	18.37	.60	533.29	.50	1.0000	556.01	18.74	P2
5000.0	.62	479.57	.50	1.0000	539.81	15.89	.65	520.53	.50	1.0000	543.14	16.24	PSI
10000.0	.68	471.06	.50	1.0000	527.68	13.77	.71	507.77	.50	1.0000	531.16	14.09	15.80
15000.0	.74	461.06	.50	1.0000	516.49	11.96	.77	494.05	.50	1.0000	520.16	12.26	13.69
20000.0	.81	451.06	.50	1.0000	506.43	10.44	.84	480.33	.50	1.0000	510.48	10.72	11.88
21250.0	.83	446.76	.50	1.0000	504.16	10.08	.85	471.93	.50	1.0000	507.61	10.33	10.34
22500.0	.85	442.46	.50	1.0000	501.78	9.74	.87	463.52	.50	1.0000	504.80	9.95	9.04
36250.0	.85	237.22	.50	1.0000	446.32	5.22	.87	248.51	.50	1.0000	449.00	5.33	8.71
50000.0	.85	122.50	.50	1.0000	446.32	2.70	.87	128.33	.50	1.0000	449.00	2.75	4.50
													2.32

•• DSGNPR - IP(43) •

C 141 TEST CASE FOR NEW •JNG PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

SPEED PROFILE DESIGN CONSTANTS

BYPASS RATIO = 1.20 IVR = 2

ALT	VH	TEMP(H) NEG RANKINE	STATIC(H) PRES. RATIO	HAMMERSHOCK (H) FACE	HAMMERSHOCK (H) THROAT
0.0	.57	552.848	.7713	1.5640	1.5187
5000.0	.62	539.813	.7688	1.5760	1.5274
10000.0	.68	527.677	.7660	1.5869	1.5342
15000.0	.74	514.488	.7629	1.5966	1.5391
20000.0	.81	504.629	.7593	1.6049	1.5416
21250.0	.83	504.163	.7584	1.6069	1.5421
22500.0	.85	501.785	.7575	1.6088	1.5424
36250.0	.85	446.321	.7575	1.6447	1.5768
50000.0	.85	446.321	.7575	1.6447	1.5768

ALT	VL	TEMP(L) NEG RANKINE	STATIC(L) PRES. RATIO	HAMMERSHOCK (L) FACE	HAMMERSHOCK (L) THROAT
0.0	.60	556.014	.7700	1.5610	1.5143
5000.0	.65	543.142	.7675	1.5729	1.5227
10000.0	.71	531.158	.7647	1.5838	1.5294
15000.0	.77	520.160	.7616	1.5935	1.5341
20000.0	.84	510.476	.7580	1.6017	1.5364
21250.0	.85	507.615	.7573	1.6041	1.5374
22500.0	.87	504.801	.7565	1.6064	1.5384
36250.0	.87	449.004	.7565	1.6435	1.5739
50000.0	.87	449.004	.7565	1.6435	1.5739

PRES(H) THROAT-PSIA	PRES(H) ENGINE-PSIA	PRES(L) THROAT-PSIA	PRES(L) ENGINE-PSIA	STATIC PRES THROAT
27.905	28.736	28.385	29.260	12.168
24.277	25.050	24.730	25.545	10.508
21.131	21.857	21.554	22.322	9.086
18.410	19.098	18.811	19.539	7.872
16.093	16.754	16.470	17.170	6.859
15.550	16.204	15.878	16.566	6.593
15.029	15.676	15.307	15.984	6.346
8.237	8.592	8.396	8.768	3.482
4.254	4.437	4.336	4.528	1.757

WARNING FROM FUSGEO IN DATA MANAGEMENT
SECTION 4 IS ROUNDED RECT.. CORR. FACTOR IS 1.000

IP(44)

1	231135.9924	20636842.3492	72452.7196	84964.0076	85709793.3426
5	5486947.5742	0.0000	0.0000	0.0000	0.0000
11	1.1727	294494565.0000	2415929.3082	.4403	0.0000
16	0.0000	0.0000	0.0000	0.0000	0.0000
21	2.9590	.9500	2.5000	0.0000	0.0000
26	148543.0447	0.0000	17094097.2404	.8062	2.5000
31	14288.1429	11.0442	1.3760	1.1563	4.5415
36	1.4187	0.0000	0.0000	0.0000	0.0000
41	33.3256	202.7125	662.7029	49951.7286	5212.1968
46	4108753.8896	700.4970	493779.2180	0.0000	0.0000
51	.5000	-44.5000	116680.0000	.0332	.1553
56	116680.0000	109346673.6000	4080594.9494	1719.2673	778.4917
61	672.6452	39.0803	777.1299	668.4288	668.4288
66	329.9752	0.0000	0.0000	0.0000	0.0000
71	6.5284	6.6112	83.6094	127.2275	127.2275
76	108.4337	0.0000	0.0000	0.0000	0.0000
81	19.0009	20.0794	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000	0.0000
91	41.2541	84.4271	44.4271	252.3218	83.4677
96	82.1885	78.9905	70.0433	0.0000	0.0000
101	35648.9195	3658.3153	2165.6169	27565.3330	8136.6669
106	847.9397	6112.2499	828.9465	0.0000	0.0000
111	982.7616	1847.4305	1750.9004	1062.2984	922.7167
116	356.5773	796.5297	699.0440	0.0000	0.0000
121	23.7969	12.3241	22.4033	158.7500	6.1700
126	4.1500	18.7000	1.2000	0.0000	0.0000
131	0.0000	0.0000	0.0000	0.0000	0.0000
136	0.0000	0.0000	0.0000	0.0000	0.0000
141	0.0000	0.0000	0.0000	0.0000	0.0000
146	0.0000	0.0000	0.0000	0.0000	0.0000
151	0.0000	0.0000	0.0000	0.0000	0.0000
156	0.0000	0.0000	0.0000	0.0000	0.0000
161	0.0000	0.0000	0.0000	0.0000	0.0000
166	0.0000	0.0000	0.0000	0.0000	0.0000
191	0.0000	0.0000	0.0000	0.0000	0.0000
196	0.0000	0.0000	0.0000	0.0000	0.0000

DATA MANAGEMENT *** OPERATIONAL WEIGHT EMPTY *** TOTAL AND MAJOR COMPONENT BREAK DOWN ** PRIME - IP (46) *

	TOTAL WT.	ARM	FUSELAGE	WING	HORIZONTAL	VERTICAL	IB NACELLE	OB NACELLE
WING	35648.9	942.8	0.0	35648.9	0.0	0.0	0.0	0.0
HORIZONTAL	3658.3	1847.4	0.0	0.0	3658.3	0.0	0.0	0.0
VERTICAL	2165.6	1751.0	0.0	0.0	0.0	2165.6	0.0	0.0
BODY	27565.3	1062.3	27565.3	0.0	0.0	0.0	0.0	0.0
MAIN GEAR	9136.7	922.7	8136.7	0.0	0.0	0.0	0.0	0.0
NOSE GEAR	847.9	356.6	847.9	0.0	0.0	0.0	0.0	0.0
SURF. CONTROL	3714.0	1121.8	700.0	1724.1	408.0	401.9	0.0	0.0
ENG. SECTION	6112.2	796.5	0.0	0.0	0.0	0.0	3056.1	3056.1
OTHER STRUCTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGINES	18759.0	774.1	0.0	0.0	0.0	0.0	9379.5	9379.5
ACCESSORY G BOX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AIS STRUCTURE	829.0	699.0	0.0	0.0	0.0	0.0	0.0	0.0
AIS ACT A MEC	0.0	0.0	0.0	0.0	0.0	0.0	414.5	414.5
EXHAUST	3577.0	845.7	0.0	0.0	0.0	0.0	0.0	0.0
COOL. A URNS.	144.0	803.9	0.0	0.0	0.0	0.0	1788.5	1788.5
FUEL SYSTEM	212.0	840.8	0.0	0.0	0.0	0.0	72.0	72.0
ENGINE CONTROLS	1380.0	953.4	0.0	1380.0	0.0	0.0	106.0	106.0
STARTING SYS.	236.0	666.2	236.0	0.0	0.0	0.0	0.0	0.0
A P U	320.0	748.3	0.0	0.0	0.0	0.0	0.0	0.0
INSTRUMENTS	554.0	844.7	0.0	0.0	0.0	0.0	0.0	0.0
HYDRAULICS	1122.0	545.0	897.6	112.2	0.0	0.0	56.1	56.1
ELECTRICAL	1489.0	881.9	997.6	0.0	0.0	0.0	245.7	245.7
ELECTRONIC	2650.0	657.5	1987.5	0.0	0.0	0.0	331.3	331.3
ARMAMENT	2347.0	592.4	2347.0	0.0	0.0	0.0	0.0	0.0
FURNISHINGS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AIR CONDITION.	3320.0	596.8	3320.0	0.0	0.0	0.0	0.0	0.0
PHOTO.	2648.0	809.9	2118.4	0.0	0.0	0.0	264.8	264.8
AUX. GEAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER EQUIPMENT	95.0	1224.0	95.0	0.0	0.0	0.0	0.0	0.0
CHEM	113.0	300.0	113.0	0.0	0.0	0.0	0.0	0.0
TRAP. FUEL	860.0	351.3	860.0	0.0	0.0	0.0	0.0	0.0
OIL	2164.0	1001.9	0.0	2164.0	0.0	0.0	0.0	0.0
Lt2	416.0	753.6	0.0	0.0	0.0	0.0	208.0	208.0
MISCELLANEOUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GUNS	236.0	853.0	236.0	0.0	0.0	0.0	0.0	0.0
W. PYLONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W. EXT. TANKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. PYLONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. EXT. TANKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DATA MANAGEMENT --- EXPENDABLE USEFUL LOAD

** PRTOME - IP(46) *

	----- WFLIGHT	----- CAPACITY	----- ARM	TOGW	FDGW	LDGW
PASSENGERS OR PAYLOAD	70000.00		887.00	70000.00	70000.00	70000.00
WING PAYLOAD	0.00		0.00	0.00	0.00	0.00
AMMUNITION	0.00		0.00	0.00	0.00	0.00
WING FUEL TANK 1	67640.00		858.00	67640.00	65739.99	28090.00
WING FUEL TANK 2	49040.00		1047.34	49040.00	49040.00	28090.00
FUSELAGE FUEL TANK 1	0.00		0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 2	0.00		0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 3	0.00		0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 4	0.00		0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 5	0.00		0.00	0.00	0.00	0.00

***** IN DSINOR, WEIGHT .576869E+03 LB. LOCATED AT

.148682E+03 IS FWD OF ISI STA. .258133E+03 *****

CHECK PRINT FOR AVDINK

** AVDINK - 1P(45) *

RT

.316100E+06
 .931650E+03
 0.
 .250010E+03
 0.
 .234648E+11
 .594026E+11

.316100F+06
 .931650F+03
 0.
 .250010F+03
 0.
 .234648F+11
 .594026F+11

.318000E+06
 .931210E+03
 0.
 .250213E+03
 0.
 .234873E+11
 .560530E+11

.257500E+06
 .933006E+03
 0.
 .242275E+03
 0.
 .225714E+11
 .481361E+11

.318000E+06
 .931210E+03
 0.
 .250213E+03
 0.
 .234873E+11
 .560530E+11

RM

.188528E+06
 .921148E+03
 .382546E+03
 .247533E+03
 0.
 .349273E+10
 .401485E+11

.188528F+06
 .921148F+03
 .382546F+03
 .247533F+03
 0.
 .349273F+10
 .401485F+11

.190428E+06
 .920518E+03
 .380741E+03
 .267697E+03
 0.
 .351082E+10
 .402541E+11

.129928F+06
 .919099E+03
 .395072E+03
 .260106E+03
 0.
 .264022E+10
 .288829E+11

.190428E+06
 .920518E+03
 .380741E+03
 .267697E+03
 0.
 .351082E+10
 .402541E+11

RM

.454630E+04
 .184743E+04
 .100693E+03
 .558660E+03
 0.
 .713497E+07
 .762784E+08

.454630F+04
 .184743F+04
 .100693F+03
 .558660F+03
 0.
 .713497F+07
 .762784F+08

.454630E+04
 .184743E+04
 .100693E+03
 .558660E+03
 0.
 .713497E+07
 .762784E+08

.454630E+04
 .184743E+04
 .100693E+03
 .558660E+03
 0.
 .713497E+07
 .762784E+08

.454630E+04
 .184743E+04
 .100693E+03
 .558660E+03
 0.
 .713497E+07
 .762784E+08

RV

.256748E+04
 .175099E+04
 0.
 .376885E+03
 0.
 .212429E+08
 .106390E+08

.256748F+04
 .175099F+04
 0.
 .376885F+03
 0.
 .212429F+08
 .106390F+08

.256748E+04
 .175099E+04
 0.
 .376885E+03
 0.
 .212429E+08
 .106390E+08

.256748E+04
 .175099E+04
 0.
 .376885E+03
 0.
 .212429E+08
 .106390E+08

.256748E+04
 .175099E+04
 0.
 .376885E+03
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 .212429E+08
 .106390E+08

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S(I) FROM AVDATA

** AVDATA - IP(48) *

1	157709.2451	149714467.4146	149714467.4146	60316035.0890	60316035.0890
6	155809.2375	148084260.8938	148084260.8938	59932967.5746	59932967.5746
11	97209.2435	93838792.8575	93838792.8575	39143175.6233	39143175.6233
16	2299259015.5933	2299259015.5933	34408478580.8279	34408478580.8279	949.3069
21	949.3069	382.4509	382.4509	950.4203	950.4203
26	384.6561	384.6561	965.3279	965.3279	402.6693
31	402.6693	120458.0905	107937684.0969	120458.0905	107937684.0969
36	120458.0905	107937684.0969	896.0601	896.0601	896.0601
41	4546.3048	1847.4305	100.6033	7134973.1948	30182774.6762
46	2567.4808	1750.9904	376.8851	21242854.5305	10639035.7320
51	16359.4432	12061006.5864	737.2504	285.0000	57758646.5089
56	57758646.5089	16359.4432	13516997.0309	826.2504	460.0000
61	57758646.5089	57758646.5089	39915.2736	318000.0076	296124771.5208
66	296124771.5208	931.2100	931.2100	316100.0000	294494565.0000
71	294494565.0000	931.6500	931.6500	23464771623.2926	23464771623.2926
76	59402629113.1284	59402629113.1284	143895120.7431	156339103.4261	257500.0060
81	240249096.9637	933.0062	25083351.0245	25083351.0245	25083351.0245
86	208.2330	208.2330	208.2330	2325372719.9627	1434115929.6982
91	34522581186.5969	23087111716.3994	23487278536.3408	22571407485.9128	56052997966.4465
96	4813614020.7641	74567492.6701	250.2135	79028290.5117	250.0104
101	62385892.2043	242.2753	100.3586	0.0000	0.0000
106	0.0000	0.0000	0.0000	0.0000	1044.6922

** DMAXLD - 1P(47) *

SHEAR, MOMENT AND TORQUE

WING ONLY AT 1G

WING AND CONTENTS AT 1G

AFT POSITION

AFT POSITION GROSS WEIGHT 2

I	SHEAR	MOMENT	TORQUE	WING PLANE	SHEAR	MOMENT	TORQUE
1	-15704.	-6347873.	502010.	77.7	-91824.	-30752377.	-2164141.
2	-13408.	-4891528.	409944.	165.9	-76644.	-22542730.	-2224644.
3	-11237.	-3656755.	327894.	254.1	-63225.	-15723587.	-2281716.
4	-9197.	-2630978.	255554.	342.3	-43285.	-11203697.	-1124148.
5	-7299.	-1800805.	192615.	430.5	-41100.	-7072159.	-1196434.
6	-5552.	-1151856.	134774.	514.7	-24143.	-4574963.	-23985.
7	-3973.	-668488.	93743.	606.9	-16741.	-2592619.	-10734.
8	-2580.	-333396.	57272.	695.1	-10687.	-1261540.	-4443.
9	-1405.	-126908.	29199.	783.3	-5805.	-461631.	-2146.
10	-497.	-25544.	9626.	871.5	-2085.	-78942.	-1051.
11	-62.	-1280.	1140.	937.6	-71.	-1471.	1309.

WING ONLY AT 1G

WING AND CONTENTS AT 1G

FORWARD POSITION

FORWARD POSITION AT GROSS WEIGHT 1

I	SHEAR	MOMENT	TORQUE	WING PLANE	SHEAR	MOMENT	TORQUE
1	-15704.	-6347873.	502010.	77.7	-92774.	-30880520.	-2167424.
2	-13408.	-4891528.	409944.	165.9	-77232.	-22596734.	-2226584.
3	-11237.	-3656755.	327894.	254.1	-63497.	-15730379.	-2242544.
4	-9197.	-2630978.	255554.	342.3	-43285.	-11203697.	-1124198.
5	-7299.	-1800805.	192615.	430.5	-41100.	-7072159.	-1196434.
6	-5552.	-1151856.	134774.	514.7	-24143.	-4574963.	-23985.
7	-3973.	-668488.	93743.	606.9	-16741.	-2592619.	-10734.
8	-2580.	-333396.	57272.	695.1	-10687.	-1261540.	-4443.
9	-1405.	-126908.	29199.	783.3	-5805.	-461631.	-2146.
10	-497.	-25544.	9626.	871.5	-2085.	-78942.	-1051.
11	-62.	-1280.	1140.	937.6	-71.	-1471.	1309.

DMAXLD - 1P(47)

WING AND COMBUSTION AT 10

FORWARD POSITION AT GROSS WEIGHT 2

I	SHEAR	MOMENT	TORQUE	WING PLANE	WING	WING
1	-91424.	-3052377.	-2104181.	77.7	-62524.	-21294471.
2	-76644.	-22542730.	-2224044.	145.4	-54525.	-16170113.
3	-63225.	-15723507.	-2241716.	254.1	-47350.	-11125434.
4	-43245.	-11213697.	-1124193.	342.3	-32810.	-7537344.
5	-41100.	-7072159.	-1194434.	430.5	-30625.	-4223247.
6	-24163.	-4574963.	-22485.	514.7	-14570.	-3146743.
7	-16741.	-2592619.	-10734.	604.4	-11565.	-1413008.
8	-10447.	-1261540.	-4443.	695.1	-7390.	-446495.
9	-5405.	-461631.	-2146.	743.3	-4016.	-326891.
10	-2085.	-78942.	-1151.	871.5	-1439.	-57771.
11	-71.	-1471.	1509.	937.6	-71.	-1471.

WING LOADS AT 26 TAVI

FORWARD POSITION AT GROSS WEIGHT 1

I	SHEAR	MOMENT	TORQUE	WING PLANE
1	-145544.	-61761039.	-4734855.	77.7
2	-14464.	-47193594.	-4453147.	165.4
3	-126994.	-31472758.	-4565148.	254.1
4	-6570.	-22407393.	-2243305.	342.3
5	-2200.	-14144319.	-2392848.	430.5
6	-48325.	-9149927.	-47971.	514.7
7	-33542.	-5185238.	-21448.	604.4
8	-21374.	-2523040.	-8887.	695.1
9	-11611.	-927243.	-4373.	743.3
10	-4171.	-157843.	-2142.	871.5
11	-143.	-2442.	2417.	937.6

HORIZONTAL TAIL AND CONTENTS

** DMAXLD - 1P(47) *

COORD. OF E. A.		SHEAR	MOMENT	TORQUE	SECTION HEIGHT	COORDINATES	
Y	X					Y	X
0.00	1785.40	-2273.	-308328.	25035.	0.00	0.00	1401.35
0.00	1785.40	-1941.	-237435.	20292.	664.60	15.16	1307.09
30.21	1797.90	-1627.	-177439.	16008.	628.63	45.31	1318.50
60.42	1810.40	-1331.	-127575.	12433.	590.47	75.52	1330.08
90.62	1822.89	-1056.	-87239.	9276.	549.67	105.73	1341.57
120.83	1835.39	-804.	-55730.	6607.	505.57	135.94	1353.07
151.04	1847.89	-575.	-32283.	4405.	457.23	166.14	1364.56
181.25	1860.39	-374.	-16052.	2652.	403.10	196.35	1376.05
211.46	1872.88	-203.	-6076.	1320.	340.40	226.56	1387.54
241.66	1885.38	-72.	-1206.	429.	262.87	256.77	1399.04
271.87	1897.88	-9.	-57.	50.	125.80	283.20	1409.00
294.53	1907.25				17.97	298.30	1414.84
302.08	1910.38						

VERTICAL TAIL AND CRIPPLES

DMAXLD - 12/16/71

COUNT. OF E. A. Z	SPEC.	WIND	TEMP.	DEPTH	TIME	DATE
0.00	1654.04				0.00	1615.45
0.00	1654.04	-25.7.	-4/0657.	5742.	0.00	1615.45
27.27	1671.53	-21.02.	-287247.	4814.	13.03	1613.07
54.53	1689.02	-18.37.	-216250.	39161.	40.00	1717.22
81.80	1706.51	-15.74.	-156474.	31106.	08.16	1725.44
109.06	1724.00	-11.93.	-108492.	23933.	45.43	1742.71
136.33	1741.49	-9.74.	-70623.	17624.	122.60	1758.94
163.59	1758.98	-6.51.	-41421.	12207.	149.46	1775.22
190.86	1776.47	-4.22.	-21652.	7652.	177.23	1791.45
218.12	1793.96	-2.30.	-8747.	4025.	204.40	1807.60
245.39	1811.45	-1.10.	-2030.	1371.	231.75	1823.94
265.84	1824.56	-1.10.	-148.	147.	255.61	1834.15
272.60	1828.94				269.25	1845.27

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** ICUM AT END OF DATA MANAGEMENT LINK ** ** DATAIN - (P,49) *

*** VEHICLE GEOMETRY AND MISC DATA FILE ***

1	1000
6	5000
11	8000
16	8000
21	10000
26	500000
31	500000
36	0300
41	2000
46	310000.0076
51	154.2135
56	3300
61	00000
66	10000
71	00000
76	40000
81	41.5000
86	00000
91	231.8272
96	00000
116	00000
121	0007
126	7705
131	1.5381
141	1.6000
146	9750
151	20000
156	100000
161	0150
166	6000
171	500.0000
176	8960
181	10000
186	3570
191	4300
196	8500

1000	1.4000	.4924	.2500
2500	.2500	.5000	.2500
34.7776	.9800	.6238	.0000
2063	1.0000	10.0000	.0000
100.0000	1.0000	1.0000	30.0000
10.0000	1.2000	0.0000	2.0000
1.0000	0.0000	0.0000	.6000
.1200	0.0000	931.2100	0.0000
257500.0060	0.0000	210.0000	933.0002
991.7700	354.7500	.2800	240000.0000
165000.0000	1.0000	1.0000	0.0000
1.0000	4.0000	0.0000	1.0000
61.7000	28.0000	0.0000	4.0000
0.0000	0.0000	44.0000	0.0000
12.0000	0.0000	0.0000	14.0000
36.0000	11.0000	6.0000	2.0000
208.6121	0.0000	0.0000	10.0000
0.0000	1.0000	0.0000	0.0000
1.3501	.6643	1.5000	0.0000
3.1650	1.5885	1100.0000	.0060
.1483	4.3718	2.1150	2.5000
.3030	.4972	.4653	900.0000
.9840	.0074	.0263	700.0000
.9750	.9750	0.0000	2000.0000
10.0000	.5000	4.0000	0.0000
.5000	1.0000	2.5000	1.5000
.4000	.9500	.0005	12.0000
.8000	1.0000	1.3500	5.0000
.0064	.4300	.4140	.2500
.0430	.1210	.0250	.1680
.4300	.3760	.1220	43.2700
.4890	.0390	.1220	.8730
.4114	.7756	13.7200	1.0000
.1500	1.1240	.2136	.2142
		.1720	.1470

201	0.050	0.241	0.020	1.0000	0.5500
206	0.0800	0.0900	0.720	0.1250	0.125
211	0.0350	0.1750	0.720	0.2700	0.2900
216	0.0000	0.1000	0.700	0.3300	0.2500
221	0.2000	0.5000	5.00.0000	0.0000	0.0000
701	31.0000	0.0000	0.0000	0.0000	1.0000
706	0.0000	0.0000	1.0000	0.0000	0.0000
721	310000.0000	0.0000	316100.0000	931.6500	25/30.0000
726	0.0000	0.0000	12000.0000	0.0000	0.0000
1520	1.0000	1.0000	1.0000	1.0000	0.0000
1531	1.0000	1.0000	1.0000	1.0000	1.0000
1536	1.0000	1.0000	1.0000	1.0000	0.0000
1541	552.8479	539.8127	527.8770	516.4881	506.8288
1546	504.1626	501.7847	446.3207	446.3207	0.0000
1551	556.0142	543.1418	531.1582	520.1598	510.4754
1556	507.6148	504.4011	449.0037	449.0037	0.0000
1561	18.3738	15.4947	13.7736	11.9615	10.4396
1566	10.0839	9.7438	5.2240	2.6977	0.0000
1571	18.7448	16.2405	14.0942	12.2617	10.7197
1576	10.3276	9.9503	5.3348	2.7548	0.0000
1581	15.4895	13.3996	11.6114	10.0837	8.8008
1586	8.5009	8.2142	4.4039	2.2742	0.0000
1591	15.8022	13.6910	11.6817	10.3369	9.0369
1596	8.7064	8.3883	4.4073	2.3224	0.0000
1601	0.7713	0.7688	0.7660	0.7629	0.7593
1606	0.7594	0.7575	0.7575	0.7575	0.0000
1611	0.7700	0.7675	0.7647	0.7610	0.7587
1616	0.7573	0.7565	0.7565	0.7565	0.0000
1621	1.5640	1.5760	1.5869	1.5966	1.6043
1626	1.6069	1.6088	1.6447	1.6447	0.0000
1631	1.5610	1.5729	1.5838	1.5935	1.6017
1636	1.6041	1.6064	1.6435	1.6435	0.0000
1641	1.5187	1.5274	1.5342	1.5391	1.5414
1646	1.5421	1.5424	1.5768	1.5768	0.0000
1651	1.5143	1.5227	1.5294	1.5341	1.5364
1656	1.5374	1.5384	1.5739	1.5739	0.0000
1661	27.9049	24.2769	21.1315	18.4104	16.0934
1666	15.5500	15.0287	9.2371	4.2536	0.0000
1671	28.7357	25.0496	21.4570	19.0974	16.7563

1676	16.2038	15.6760	18.5019	4.4364	0.0000
1681	28.3453	24.7294	21.5550	14.0112	14.4697
1686	15.8741	15.3072	18.3063	4.3354	0.0000
1691	29.2605	25.5451	22.3222	19.5344	17.1697
1696	16.5663	15.9460	18.7676	4.5275	0.0000
1701	12.1677	10.5040	9.0859	7.8722	4.8500
1706	6.5930	6.3454	3.4022	1.7569	0.0000
1711	0.0000	.5740	.6000	448.0706	533.2474
1716	28.7357	29.2605	.2704	14.0394	14.5645
1721	77.7000	28.1090	24.7445	648.7600	317.8707
1726	.4175	8.5197	3002.8300	159.9480	77.7000
1731	165.8988	254.0476	342.2064	430.4952	514.6940
1736	606.8928	695.0916	783.2004	871.4892	937.6383
1741	.3775	0.0000	0.0000	0.0000	0.0000
1761	0.0000	23.6379	929.4494	237.9687	954.6840
1766	28.1090	648.7600	317.8707	132.7002	25.9158
1771	296.5815	28.9845	22.4758	1714.1700	168.0750
1776	.3699	5.2480	443.0000	50.3466	0.0000
1781	0.0000	30.2080	60.4160	90.6239	120.8319
1786	151.0399	181.2479	211.4559	241.6639	271.8714
1791	294.5278	.4000	25.0000	1819.8208	123.2409
3761	5402027113.1244	5402027113.1244	5605299966.4465	48136144020.7661	54052997966.4465
3946	188528.1239	188528.1230	190428.1315	129928.1299	190428.1315
3951	921.1478	921.1478	920.5177	919.0989	520.5177
3956	382.5464	382.5464	380.7411	395.0720	380.7411
3961	267.5328	267.5328	247.6971	260.1054	247.6971
3971	3492732035.7444	3492732035.7444	3510823367.7371	2660217186.7733	3510823363.7371
3976	40148532182.2205	40148532182.2205	40254102329.3318	28882850957.6953	47254102329.3318
3981	4546.3048	4546.3048	4546.3048	4546.3048	4546.3048
3986	1847.4305	1847.4305	1847.4305	1847.4305	1847.4305
3991	100.6933	100.6933	100.6933	100.6933	100.6933
3996	558.6600	558.6600	558.6600	558.6600	558.6600
4006	7134973.1948	7134973.1948	7134973.1948	7134973.1948	7134973.1948
4011	76278377.6390	76278377.6390	76278377.6390	76278377.6390	76278377.6390
4016	2567.4808	2567.4808	2567.4808	2567.4808	2567.4808
4021	1750.9904	1750.9904	1750.9904	1750.9904	1750.9904
4031	376.8851	376.8851	376.8851	376.8851	376.8851
4041	21242854.5305	21242854.5305	21242854.5305	21242854.5305	21242854.5305
4046	10639035.7320	10639035.7320	10639035.7320	10639035.7320	10639035.7320

221
 226
 231
 236

15
 146
 1

4
 3
 2
 2

14
 141
 11
 1

20
 0
 0
 10

1
 1
 1
 2

*** DATA: - 10, 1, 7) ***

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--- Local

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Line	Account	Debit	Credit	Balance
1	318000.0076	931.2100		931.2100
6	931.6500	5064634.6358		12821459.2366
11	257500.0060	933.0062		2.0000
16	2.0000	1.0000		0.0000
21	22500.0000	5740		8500
26	0.0000	0.0000		0.0000
31	147.0000	103.0000		221.6000
36	84.9887	77.7000		24.7645
41	317.8707	4175		3002.8300
46	77.7000	165.4988		342.2964
51	518.6940	606.8928		783.2904
56	937.6383	3775		0.0000
61	0.0000	0.0000		0.0000
66	0.0000	0.0000		0.0000
86	0.0000	0.0000		0.0000
91	0.0000	0.0000		0.0000
96	0.0000	0.0000		0.0000
101	641.0000	3230		294.5815
106	22.4758	1718.1700		5.3699
111	483.0000	50.3446		0.0000
116	60.4160	90.6239		151.0399
121	211.4559	241.6639		294.5278
126	0.0000	0.0000		0.0000
131	0.0000	0.0000		0.0000
136	0.0000	38.5947		1525.7075
141	5887	1.3217		24.7147
146	23.9215	51.1870		105.7180
151	160.2491	187.5144		242.0456
156	289.7603	4000		0.0000
161	0.0000	0.0000		0.0000
166	6000	8400		0.0000
171	165.8988	1.0000		3000.0000
176	-20712577.5346	-11214796.0936		-16170112.6016
181	-0.0000	-0.0000		-0.0000
186	-0.0000	318000.0076		0.0000
191	0.0000	0.0000		0.0000
196	0.0000	0.0000		0.0000
				4130
				12000.0000
				-28948582.2038
				-8242831.0332

OUTPUT TABLES AND CONTROLS
FLUTTER AND TEMPERATURE ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for flutter and temperature module
41	(3,0)	F & Temp	WHVMAT	Wing, H-tail, V-tail material allowable stress and shear modulus
41	(3,0)	F & Temp	SVFTAB	Wing (fixed or aft) flutter parameter vs mach number table
41	(3,0)	F & Temp	SVFTAB	Wing (forward) flutter parameter vs mach number table
41	(3,0)	F & Temp	SVFTAB	H-tail flutter parameter vs mach number table
41	(3,0)	F & Temp	SVFTAB	V-tail flutter parameter vs mach number table
41	(3,0)	F & Temp	WHVQQ	Compressible dynamic pressure data
41	(3,0)	F & Temp	WHVQQ	Design temperature, pressure and G

•• OLAY00 - IP(40) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

•••• FLUTTER AND TEMPERATURE (OVERLAY 3) ••••

•• WHVMAT- IP(41) ••

*** WING ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMPERATURE	STRESS (PSI)	G (PSI)
80.	81000.	3947369.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.

STRESS AT 80 DEGREES 81000.

*** HORIZONTAL TAIL ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMPERATURE	STRESS (PSI)	G (PSI)
80.	81000.	3947369.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.

STRESS AT 80 DEGREES 81000.

*** VERTICAL TAIL ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMPERATURE	STRESS (PSI)	G (PSI)
80.	81000.	3947369.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.

STRESS AT 80 DEGREES 81000.

*** SVFTAB - IP(41) *

*** WING (FIXED ON AFT) ***

FLUTTER PARAMETER VS MACH NUMBER

MACH NO.	AR = 8.52	SWEEP(C/4) = 25.9 DEG	TAPEX = .417	COMPOSITE
.200	.1097	.0566	.0667	.1150
.400	.2194	.1132	.1333	.2300
.600	.3292	.1698	.2000	.3450
.800	.4389	.2264	.2666	.4600
.825	.4516	.2376	.2812	.4641
.850	.4671	.2517	.3005	.4670
.875	.4984	.2657	.3205	.4877
.900	.5134	.2769	.3355	.4963
.925	.5209	.2864	.3475	.4999
.950	.5326	.2918	.3536	.5140
.975	.5447	.2961	.3574	.5293
1.000	.5535	.2993	.3598	.5408
1.025	.5590	.3016	.3608	.5486
1.050	.5648	.3027	.3606	.5593
1.075	.5731	.3023	.3584	.5735
1.100	.5804	.3008	.3551	.5870
1.125	.5844	.2984	.3494	.5949
1.150	.5874	.2945	.3418	.5997
1.175	.5917	.2896	.3317	.6031
1.200	.5938	.2843	.3227	.6053
2.000	.3956	.2498	.2819	.4122
2.100	.3931	.2514	.2847	.4099
2.200	.3951	.2530	.2875	.4123
2.300	.3993	.2545	.2903	.4170
2.400	.4023	.2571	.2941	.4204
2.500	.4099	.2597	.2978	.4285
3.000	.4457	.2767	.3202	.4631
3.500	.4890	.2972	.3451	.5055
4.000	.5333	.3186	.3715	.5494
4.500	.5809	.3411	.3992	.5971
5.000	.6341	.3646	.4276	.6498

*** HORIZONTAL TAIL ***

SVFTAB - IP(41) *

FLUTTER PARAMETER VS MACH NUMBER

MACH NO.	AR = 5.25	SWEEP(C/4) = 25.0 DEG	TAPER = .370	COMPOSITE
.200	.0737	.0564	.0640	.0739
.400	.1475	.1129	.1279	.1479
.600	.2212	.1693	.1919	.2218
.800	.2949	.2258	.2558	.2957
.825	.3093	.2368	.2706	.3048
.850	.3280	.2506	.2901	.3153
.875	.3512	.2643	.3101	.3308
.900	.3662	.2753	.3251	.3411
.925	.3769	.2847	.3371	.3489
.950	.3838	.2901	.3428	.3570
.975	.3893	.2944	.3463	.3645
1.000	.3932	.2978	.3485	.3702
1.025	.3954	.3001	.3495	.3740
1.050	.3963	.3013	.3490	.3781
1.075	.3964	.3010	.3465	.3819
1.100	.3955	.2997	.3429	.3848
1.125	.3930	.2973	.3375	.3851
1.150	.3895	.2936	.3305	.3833
1.175	.3856	.2888	.3217	.3801
1.200	.3811	.2836	.3135	.3765
2.000	.2974	.2493	.2730	.2995
2.100	.2982	.2509	.2755	.3003
2.200	.3002	.2524	.2780	.3023
2.300	.3028	.2540	.2804	.3049
2.400	.3058	.2566	.2839	.3078
2.500	.3101	.2591	.2874	.3121
3.000	.3344	.2760	.3088	.3343
3.500	.3630	.2963	.3329	.3610
4.000	.3927	.3177	.3583	.3889
4.500	.4239	.3400	.3850	.4188
5.000	.4574	.3633	.4124	.4506

*** VERTICAL TAIL ***

** SVFTAB - IP(41) *

FLUTTER PARAMETER VS MACH NUMBER

MACH NO.	AR = .74	SWEEP(C/4) = 35.0 DEG	TAPEM = .609	COMPOSITE
.200	.0089	.0582	.0775	.0112
.400	.0179	.1164	.1550	.0224
.600	.0268	.1747	.2325	.0336
.800	.0357	.2329	.3100	.0448
.825	.0369	.2459	.3240	.0452
.850	.0380	.2628	.3419	.0451
.875	.0391	.2797	.3619	.0455
.900	.0402	.2927	.3769	.0462
.925	.0413	.3033	.3889	.0470
.950	.0421	.3086	.3970	.0482
.975	.0428	.3122	.4021	.0494
1.000	.0436	.3149	.4051	.0504
1.025	.0443	.3166	.4061	.0514
1.050	.0447	.3167	.4072	.0523
1.075	.0450	.3150	.4062	.0533
1.100	.0454	.3123	.4043	.0543
1.125	.0458	.3087	.3972	.0548
1.150	.0454	.3038	.3871	.0542
1.175	.0450	.2979	.3719	.0529
1.200	.0447	.2918	.3597	.0521
2.000	.0417	.2547	.3177	.0499
2.100	.0424	.2564	.3217	.0510
2.200	.0432	.2582	.3258	.0521
2.300	.0439	.2600	.3298	.0532
2.400	.0447	.2628	.3349	.0543
2.500	.0454	.2656	.3400	.0554
3.000	.0484	.2840	.3661	.0590
3.500	.0517	.3057	.3943	.0629
4.000	.0555	.3283	.4245	.0673
4.500	.0596	.3520	.4567	.0723
5.000	.0640	.3767	.4889	.0775

FLUTTER SPEED MARGIN = 1.20

WVQO - IP(41) •

WING FIXED OR AFT			
FLUTTER DESIGN			
SPEED-ALTITUDE PROFILE POINTS	MACH NUMBER	DYNAMIC PRESSURE	COMRESSIBLE DYNAMIC PRESSURE
ALTITUDE FEET			
0.	.6000	533.1	767.7
5000.	.6499	520.4	749.4
10000.	.7060	507.7	731.1
15000.	.7648	494.0	711.4
20000.	.8400	480.3	691.6
21250.	.8548	471.9	679.5
22500.	.8700	463.5	667.4
36250.	.8700	248.5	357.9
50000.	.8700	128.3	184.8

HORIZONTAL TAIL			
FLUTTER DESIGN			
SPEED-ALTITUDE PROFILE POINTS	MACH NUMBER	DYNAMIC PRESSURE	COMRESSIBLE DYNAMIC PRESSURE
ALTITUDE FEET			
0.	.7200	767.7	767.7
5000.	.7798	749.4	749.4
10000.	.8472	731.1	735.5
15000.	.9225	711.4	741.2
20000.	1.0080	691.6	687.1
21250.	1.0258	679.5	661.6
22500.	1.0440	667.4	637.2
36250.	1.0440	357.9	341.7
50000.	1.0440	184.8	176.4

SPEED-ALTITUDE PROFILE POINTS			VERTICAL TAIL		FLUTTER DESIGN		COMPRESSIBLE DYNAMIC PRESSURE
ALTITUDE FEET	MACH NUMBER	DYNAMIC PRESSURE	MACH NUMBER	DYNAMIC PRESSURE	DYNAMIC PRESSURE		
0.	.6000	533.1	.7200	767.7	767.7	767.7	
5000.	.6499	520.4	.7709	749.4	749.4	749.4	
10000.	.7020	507.7	.8472	731.1	731.1	662.3	
15000.	.7628	494.0	.9225	711.4	711.4	587.2	
20000.	.8400	480.3	1.0090	691.6	691.6	558.3	
21250.	.8548	471.9	1.0258	679.5	679.5	543.8	
22500.	.8700	463.5	1.0440	667.4	667.4	528.9	
36250.	.8700	248.5	1.0440	357.9	357.9	283.6	
50000.	.8700	128.3	1.0440	184.8	184.8	146.4	

WV00 - IP(41)

DESIGN TEMPERATURE, PRESSURE AND G					
PROFILE POINT	ALTITUDE	MACH NO.	TEMPERATURE	PRESSURE	G (PSI)
1	0.	.6000	95.3	767.7	3947369.
1	0.	.6000	95.3	767.7	0.
1	0.	.7200	109.2	767.7	0.

OUTPUT TABLES AND CONTROLS

AIRLOADS ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for air-loads module
52	(4,0)	Loads	USPAN	Wing lift curve slope tables
52	(4,0)	Loads	USPAN	Wing loading analysis stations
52	(4,0)	Loads	USPAN	Flap increment tables
52	(4,0)	Loads	USPAN	H-tail lift curve slope tables
52	(4,0)	Loads	USPAN	H-tail loading analysis stations
52	(4,0)	Loads	USPAN	V-tail lift curve slope tables
52	(4,0)	Loads	USPAN	V-tail loading analysis stations
52	(4,0)	Loads	USPAN	Wing unit spanwise distributions
52	(4,0)	Loads	USPAN	Flap unit spanwise distributions
52	(4,0)	Loads	USPAN	H-tail unit spanwise distributions
52	(4,0)	Loads	USPAN	V-tail unit spanwise distributions
50	(4,0)	Loads	BNLDS	Vehicle total surface load tables and inertia factors

OUTPUT TABLES AND CONTROLS

AIRLOADS ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
51	(4,0)	Loads	SPABM	Wing spanwise load distributions
51	(4,0)	Loads	SPABM	H-tail spanwise load distributions
51	(4,0)	Loads	SPABM	V-tail spanwise load distributions
53	(4,0)	Loads	WHVNET	Wing design loads and ratios
53	(4,0)	Loads	WHVNET	H-tail design loads and ratios
53	(4,0)	Loads	WHVNET	V-tail design loads and ratios
54	(4,0)	Loads	BLCNTL	Data, equilibrium skin temperature, design temperatures and maximum wing design bending moments for fatigue
55	(4,0)	Loads	FATMG	Flight spectrum fatigue table
55	(4,0)	Loads	FATMG	Ground-air-ground fatigue spectrum table

•• OLAY00 - IP(40) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

**** L O A D S (OVERLAY 4) ****

00 115231 - 121221 00

VALUES FROM MCLA/K TABLE FOR ST = 0.5197 ST = 2/0.27 I = 0.4175 RA/K = 0.4273

TK= 0.00 .25 .50 1.00
 .07739 .07440 .07552 .07205 (ST/0.5)

VALUES FROM LOADING TABLE FOR K = .333

1.43991	1.24275	1.12541	.94703	STA = 0.000
1.27188	1.17454	1.14523	1.11115	STA = .382
.78483	.90988	.44136	1.08846	STA = .707
.27912	.54553	.64410	.74613	STA = .924

LOADING OF DATA STATIONS MN= .333

STATION
0.00000
.38300
.70700
.92400
1.00000

LOADING-ANALYSTS STATIONS (ALOG)

STATION
1.00000
.97702
.90810
.81614
.72429
.63239
.54048
.44858
.35667
.26477
.17287
.08096
0.00000

DX SWEEP

STATION
1.00000
.97702
.90810
.81614
.72429
.63239
.54048
.44858
.35667
.26477
.17287
.08096
0.00000

-6.414
-6.614
-7.236
-8.058
-8.881
-9.703
-10.526
-11.348
-12.171
-12.993
-13.816
-14.638
17.907

*** DISCARD - 12/15/71 ***

STATION
1.00000
.97702
.90810
.81619
.72429
.63239
.54048
.44858
.35667
.26477
.17287
.08096
0.00000

UNIT LOSS
0.00000
.04544
.17370
.29604
.47904
.69320
.89980
1.02704
1.10417
1.16005
1.20089
1.21459
1.21311

INCL LOSS
0.00000
.00835
.02944
.03811
.03731
.04304
.04607
.09675
.13208
.17186
.24921
.42164
.50892

FLAP INCR
0.00000
.03712
.14424
.25793
.44177
.65016
.83272
.93031
.97209
.98814
.95167
.79295
.70419

MNS .333

WFS 40.00

STATION
1.00000
.97702
.90810
.81619
.72429
.63239
.54048
.44858
.35667
.26477
.17287
.08096
0.00000

DX SWEEP
7.969
8.225
8.991
10.013
11.035
12.057
13.079
14.101
15.123
16.145
17.167
18.189
50.734

VALUES FROM HCL/A TABLES FOR CP= 5.24000 CM= 26.22 IM= .3609 HA/K= 5.4374

IR= 0.00 .25 .50 1.00
 .06829 .06950 .06795 .06410 (FOR TAIL)

VALUES FROM LOADING TABLES FOR MN= .223

1.40700 1.26779 1.18028 1.04684 STA= 0.000
 1.24486 1.018028 1.015864 1.013856 STA= .383
 .81106 .90342 .95547 1.03639 STA= .707
 .32287 .51313 .57613 .64483 STA= .924

LOADING AT DATA STATIONS mile= .333

STATION	0.00000
	1.22303
	1.16425
	.93005
	.54763
	0.00000

LOADING-ANALYSIS STATIONS (FOR TAIL)

0.00000
.19432
.63357
.80174
.93930
1.03974
1.10765
1.16026
1.19726
1.21517
1.22236
1.22303
1.22303

DX SWEEP

-9.739
-10.153
-11.398
-13.057
-14.716
-16.375
-18.034
-19.692
-21.351
-23.010
-24.669
-26.328
-26.328

STATION	0.00000
	.38300
	.70700
	.92400
	1.00000

STATION	1.00000
	.97500
	.90000
	.80000
	.70000
	.60000
	.50000
	.40000
	.30000
	.20000
	.10000
	0.00000
	0.00000

STATION	1.00000
	.97500
	.90000
	.80000
	.70000
	.60000
	.50000
	.40000
	.30000
	.20000
	.10000
	0.00000
	0.00000

VALUES FROM DCLA/K TABLES FOR AM= 2.5434 S.H= 36.60 TH= .5887 MA/K= 2.1488

TH=	0.00	.25	.50	1.00
	.04991	.05070	.04981	.04822 (WEIR TAIL)

VALUES FROM LOADING TABLES FOR MN= .343

1.34353	1.25953	1.20849	1.11731	STA= 7.000
1.21414	1.17918	1.16683	1.15742	STA= .343
.85269	.91148	.94033	.99405	STA= .707
.39018	.50671	.53397	.57702	STA= .924

STATION	LOADING AT DATA STATIONS	WAVE
0.00000	1.19140	0.333
.54200	1.16389	
1.00000	.95026	

STATION	LOADING--ANALYSIS STATIONS (VFM TAIL)
1.00000	.95026
.97702	.96310
.90807	1.00090
.81613	1.04910
.72420	1.04382
.63226	1.13329
.54033	1.16435
.44840	1.18357
.35646	1.19392
.26453	1.19837
.17259	1.19871
.08066	1.19607
0.00000	1.19190

STATION	OX SWEEP
1.00000	-23.587
.97702	-23.965
.90807	-25.101
.81613	-26.616
.72420	-28.131
.63226	-29.646
.54033	-31.160
.44840	-32.675
.35646	-34.190
.26453	-35.705
.17259	-37.219
.08066	-38.734
0.00000	-25.419

WING PARAMETERS

USPAV - 1P(152) *

CLAF 4.23109 K4(H)A= .90523 Y4(H)A= 467.41 DXW(R)A= 323.61 DXB(W)A= 139.34

SIDE OF BODY UNITS

USZW4= .90523 UMX4B= 353.140 UMY4B=-151.840

SPANWISE UNIT DISTRIBUTIONS

STA SWEEP USZW(H) UMXW(H) SWEEP UMYW(H) SWEEP MN= .233

1.0000	0.00000	0.0000	0.0000	0.0000	0.0000
.9770	.00233	.0024	.0024	.015	.015
.9081	.03288	1.311	1.311	.232	.232
.8162	.10240	7.881	7.881	.767	.767
.7243	.18381	21.781	21.781	1.454	1.454
.6324	.27464	44.046	44.046	2.304	2.304
.5405	.37240	75.470	75.470	3.294	3.294
.4486	.47477	116.613	116.613	4.414	4.414
.3567	.58051	167.862	167.862	5.658	5.658
.2648	.68835	229.444	229.444	7.014	7.014
.1729	.79691	301.615	301.615	8.471	8.471
.0810	.90523	384.280	384.280	10.012	10.012
0.0000	1.00000	465.794	465.794	0.863	0.863

FLAPS DEFLECTED PARAMETERS

KBF= .66415 KX(H)F= .40874 YW(H)F= 397.42 MXV(H)F= 319.40 ** HISSVAL = 10.52) 0.
 SIDE OF 400Y UNITS UMYF=-144.676 UMX(H)F= 164.33

SPANWISE UNIT DISTRIBUTIONS

USZFB= .90874 UMXFB= 290.406

STA SWEEP	USZF (R)	UMXF (I) SWEEP	UMYF (H) SWEEP	MNZ
1.0000	0.00000	0.000	0.000	
.9770	.00064	.004	-.005	
.9081	.01005	.397	-.088	
.8162	.03788	2.725	-.357	
.7243	.08629	8.755	-.873	
.6324	.16184	20.806	-1.752	
.5405	.26451	41.511	-3.049	
.4486	.38656	73.131	-4.711	
.3567	.51819	117.070	-6.636	
.2648	.65382	173.944	-8.757	
.1729	.78804	244.011	-10.991	
.0810	.90874	326.415	-13.120	
0.0000	1.00000	408.079	-16.176	

MOX TAIL PARAMETERS

USPAN - IP(52) *

CLA= 3.80562 KH(B)=1.00000 YH= 137.33 DXH= 103.24

SIDE OF BODY UNITS

USZHB= 1.00000 UMXHB= 137.335 UMYHB= -36.008

SPANWISE UNIT DISTRIBUTIONS

STA SWEEP	USZHB	UMXHB	UMYHB	MN
		SWEEP	SWEEP	
1.0000	0.00000	0.000	0.000	
.9750	.00244	.010	.025	
.9000	.03365	.452	.371	
.8000	.10581	2.732	1.261	
.7000	.19332	7.621	2.482	
.6000	.29281	15.567	4.032	
.5000	.40076	26.904	5.892	
.4000	.51476	41.869	8.045	
.3000	.63327	60.634	10.479	
.2000	.75454	83.318	13.169	
.1000	.87707	109.988	16.091	
0.0000	1.00000	140.669	19.225	
0.0000	1.00000	140.669	19.225	

VERT TAIL PARAMETERS

USPAN - IP(52) *

CYH= 2.70398 KV(B)= .91509 DXV= 17A.27

TOP OF BODY UNITS

USYVB= .91509 UMXVB= 135.767 UMZVR= -52.898

SPANWISE UNIT DISTRIBUTIONS

STA SWEEP	USYV(B)	UMXV(R) SWEEP	UMZV(B) SWEEP	MN= .333
1.0000	0.00000	0.000	0.000	
.9770	.01939	.078	.461	
.9081	.07909	1.275	1.926	
.8161	.16217	5.182	4.076	
.7242	.24902	11.842	6.455	
.6323	.33928	21.370	9.064	
.5403	.43241	33.868	11.896	
.4484	.52756	49.416	14.934	
.3565	.62392	68.065	18.155	
.2645	.72088	89.845	21.544	
.1726	.81803	114.769	25.086	
.0807	.91509	142.839	28.772	
0.0000	1.00000	170.051	31.514	

CONDITION NO= 50817. MN= .533 ALT= 0. DF= 50.00 ** BNLOS - IP(50) *

BODY LOADS

PZN= -2895. PYN= 0. AMN= 319.57

WING PANEL LOAD

PZW(H)/2= 299152. YB(H)= 365.46 XRW(R)= 972.37

WING CARRY-OVER LOAD

PZH(W)= 59630. XHE(W)= 822.47

HORIZONTAL TAIL LOADS

PZH/?= -9520. YBH=137.33 XHH= 1821.41 DMXH= 392225.

VERTICAL TAIL LOAD

PYV= 0. ZHV= 0.00 XbV= 1703.98

AIRPLANE INERTIA FACTORS

NZ= 2.00 NY= 0.00 UDNT= 0.000 RUOT= 0.000

COMPONENT SPANWISE FACTORS

PZW(B)A= -105652. PLW(B)F= 703957. PZH(H)= -19040.

WING LOADS COND NO= 60817. MN= .333 ALT= 0. UP= 40.00 ** SPAN= [P(4)] **
 SUM DIST= 77.70IN SM AT SUM= 244152.0LR HM AT SUM= 92867024.0IN-LB TM AT SUM= -48707744.0IN-LB

STATION (IN)	SHEAR (LR)	BEND MOM (IN-LB)	TORS MOM (IN-LB)
1050.87	0.	0.	0.
1032.58	112.	1365.	-2947.
959.74	1475.	77391.	-47746.
842.61	4696.	595604.	-182945.
765.48	22696.	2170125.	-423162.
668.35	46657.	5488251.	-813232.
571.22	40719.	11674258.	-1373284.
474.04	122014.	21520172.	-2082438.
376.96	166830.	35448060.	-2900546.
279.83	213069.	53097814.	-3801259.
182.70	258720.	76010232.	-4751546.
85.57	294152.	104003270.	-5665797.

HORIZONTAL TAIL LOADS COND NO= 60817. MN= .333 ALT= 0. ** SPAN= [P(4)] **
 SUM DIST= 0.00IN SM AT SUM= -10948.0LR HM AT SUM= -1503531.0IN-LB TM AT SUM= 396214.0IN-LB

STATION (IN)	SHEAR (LR)	BEND MOM (IN-LB)	TORS MOM (IN-LB)
320.91	0.	0.	0.
318.74	-27.	-109.	-271.
294.22	-344.	-4954.	-4066.
241.53	-1158.	-24910.	-13801.
228.84	-2117.	-43439.	-27169.
196.14	-3206.	-170432.	-44146.
163.45	-4387.	-294545.	-64509.
130.76	-5636.	-448376.	-88076.
98.07	-6933.	-663815.	-114719.
65.38	-8261.	-912162.	-144176.
32.69	-9602.	-1204137.	-176159.
0.00	-10948.	-1540035.	-210476.

VERTICAL TAIL LOADS COND NO= 60817. MN= .333 ALT= 0. ** SPAN= [P(4)] **
 SUM DIST= 23.92IN SM AT SUM= 0.0LR HM AT SUM= 392224.0IN-LB TM AT SUM= 0.0IN-LB

STATION (IN)	SHEAR (LR)	BEND MOM (IN-LB)	TORS MOM (IN-LB)
352.34	0.	330152.	211756.
344.24	0.	330152.	211756.
319.45	0.	330152.	211756.
287.55	0.	330152.	211756.
255.16	0.	330152.	211756.
222.77	0.	330152.	211756.
190.38	0.	330152.	211756.
157.99	0.	330152.	211756.
125.59	0.	330152.	211756.
93.20	0.	330152.	211756.
60.81	0.	330152.	211756.
28.42	0.	330152.	211756.

*** DESIGN LOADS (RECORD 32) AND RATIOS (RECORD 17) ***

•• WINDNET - IP(53) •

• • • W I N G • • •

STATION	LC	+V	RS	RNZ	RC	RS*(+V)	RS/RNZ	RS/RNZ*RC
1	3	936.	1.000	1.000	1.000	936.	1.000	1.000
2	3	13288.	1.000	1.000	1.000	13288.	1.000	1.000
3	3	41825.	1.000	1.000	1.000	41825.	1.000	1.000
4	3	75692.	1.000	1.000	1.000	75692.	1.000	1.000
5	3	113527.	1.000	1.000	1.000	113527.	1.000	1.000
6	3	154039.	1.000	1.000	1.000	154039.	1.000	1.000
7	3	196147.	1.000	1.000	1.000	196147.	1.000	1.000
8	3	239356.	1.000	1.000	1.000	239356.	1.000	1.000
9	3	283162.	1.000	1.000	1.000	283162.	1.000	1.000
10	3	326989.	1.000	1.000	1.000	326989.	1.000	1.000
11	3	370443.	1.000	1.000	1.000	370443.	1.000	1.000

STATION	LC	-V	RS	RNZ	RC	RS*(-V)	RS/RNZ	RS/RNZ*RC
1	6	-362.	1.000	1.000	1.000	-362.	1.000	1.000
2	24	-4171.	1.000	0.000	1.000	-4171.	0.000	0.000
3	24	-11611.	1.000	0.000	1.000	-11611.	0.000	0.000
4	24	-21374.	1.000	0.000	1.000	-21374.	0.000	0.000
5	24	-33562.	1.000	0.000	1.000	-33562.	0.000	0.000
6	24	-44326.	1.000	0.000	1.000	-44326.	0.000	0.000
7	24	-42200.	1.000	0.000	1.000	-42200.	0.000	0.000
8	24	-46570.	1.000	0.000	1.000	-46570.	0.000	0.000
9	24	-126994.	1.000	0.000	1.000	-126994.	0.000	0.000
10	24	-154464.	1.000	0.000	1.000	-154464.	0.000	0.000
11	24	-145548.	1.000	0.000	1.000	-145548.	0.000	0.000

STATION	LC	+RM	RS	RNZ	RC	RS*(+RM)	RS/RNZ	RS/RNZ*RC
1	3	11361.	1.000	1.000	1.000	11361.	1.000	1.000
2	3	529448.	1.000	1.000	1.000	529448.	1.000	1.000
3	3	3206012.	1.000	1.000	1.000	3206012.	1.000	1.000
4	3	4913239.	1.000	1.000	1.000	4913239.	1.000	1.000
5	3	14102674.	1.000	1.000	1.000	14102674.	1.000	1.000
6	3	31097010.	1.000	1.000	1.000	31097010.	1.000	1.000
7	3	48103793.	1.000	1.000	1.000	48103793.	1.000	1.000
8	3	69253995.	1.000	1.000	1.000	69253995.	1.000	1.000
9	3	94630052.	1.000	1.000	1.000	94630052.	1.000	1.000
10	3	124261996.	1.000	1.000	1.000	124261996.	1.000	1.000
11	3	158132724.	1.000	1.000	1.000	158132724.	1.000	1.000

STATION	LC	-RM	RS	RNZ	RC	RS*(-RM)	RS/RNZ	RS/RNZ*RC
1	24	-2942.	1.000	0.000	1.000	-2942.	0.000	0.000
2	24	-157483.	1.000	0.000	1.000	-157483.	0.000	0.000
3	24	-423263.	1.000	0.000	1.000	-423263.	0.000	0.000
4	24	-2523080.	1.000	0.000	1.000	-2523080.	0.000	0.000
5	24	-5185234.	1.000	0.000	1.000	-5185234.	0.000	0.000
6	24	-4144927.	1.000	0.000	1.000	-4144927.	0.000	0.000
7	24	-14144319.	1.000	0.000	1.000	-14144319.	0.000	0.000
8	24	-22407393.	1.000	0.000	1.000	-22407393.	0.000	0.000
9	24	-31472758.	1.000	0.000	1.000	-31472758.	0.000	0.000
10	24	-45193596.	1.000	0.000	1.000	-45193596.	0.000	0.000
11	24	-61761039.	1.000	0.000	1.000	-61761039.	0.000	0.000

*** DESIGN LOADS (RECORD 32) AND RATIOS (RECORD 17) ***

*** WINDNET - 10(53) ***

*** HORIZONTAL TAIL ***

STATION	LC	+V	RS	RN/	RS(+V)	RS+H/
1	3	57.	1.000	-2.500	57.	-2.500
2	15	1522.	1.000	3.62H	1522.	3.62H
3	15	4812.	1.000	3.62H	4812.	3.62H
4	15	8825.	1.000	3.62H	8825.	3.62H
5	15	13384.	1.000	3.62H	13384.	3.62H
6	15	18313.	1.000	3.62H	18313.	3.62H
7	15	23449.	1.000	3.62H	23449.	3.62H
8	15	28875.	1.000	3.62H	28875.	3.62H
9	15	34362.	1.000	3.62H	34362.	3.62H
10	15	39893.	1.000	3.62H	39893.	3.62H
11	15	45429.	1.000	3.62H	45429.	3.62H

STATION	LC	-V	RS	RN/	RS(-V)	RS+H/
1	10	-74.	1.000	1.807	-74.	1.807
2	11	-1131.	1.000	2.251	-1131.	2.251
3	11	-3574.	1.000	2.251	-3574.	2.251
4	11	-6545.	1.000	2.251	-6545.	2.251
5	11	-9940.	1.000	2.251	-9940.	2.251
6	11	-13691.	1.000	2.251	-13691.	2.251
7	11	-17453.	1.000	2.251	-17453.	2.251
8	11	-21445.	1.000	2.251	-21445.	2.251
9	11	-25521.	1.000	2.251	-25521.	2.251
10	11	-29629.	1.000	2.251	-29629.	2.251
11	11	-33740.	1.000	2.251	-33740.	2.251

STATION	LC	+HM	RS	RN/	RS(+HM)	RS+H/
1	3	232.	1.000	-2.500	232.	-2.500
2	15	20459.	1.000	3.62H	20459.	3.62H
3	15	124000.	1.000	3.62H	124000.	3.62H
4	15	446910.	1.000	3.62H	446910.	3.62H
5	15	700933.	1.000	3.62H	700933.	3.62H
6	15	1228034.	1.000	3.62H	1228034.	3.62H
7	15	1911466.	1.000	3.62H	1911466.	3.62H
8	15	2767539.	1.000	3.62H	2767539.	3.62H
9	15	3801173.	1.000	3.62H	3801173.	3.62H
10	15	5014911.	1.000	3.62H	5014911.	3.62H
11	15	6409543.	1.000	3.62H	6409543.	3.62H

STATION	LC	-HM	RS	RN/	RS(-HM)	RS+H/
1	0	-23.	1.000	-0.400	-23.	-0.400
2	11	-15195.	1.000	2.251	-15195.	2.251
3	11	-42095.	1.000	2.251	-42095.	2.251
4	11	-257650.	1.000	2.251	-257650.	2.251
5	11	-527268.	1.000	2.251	-527268.	2.251
6	11	-912061.	1.000	2.251	-912061.	2.251
7	11	-1419647.	1.000	2.251	-1419647.	2.251
8	11	-2055453.	1.000	2.251	-2055453.	2.251
9	11	-2823134.	1.000	2.251	-2823134.	2.251
10	11	-3724577.	1.000	2.251	-3724577.	2.251
11	11	-4760372.	1.000	2.251	-4760372.	2.251

THE POSITIVE AND NEGATIVE LOADS ON THE HORIZONTAL TAIL HAVE BEEN REVERSED
BECAUSE THE NEGATIVE HM AT THE ROOT WAS GREATER THAN THE POSITIVE HM AT THE ROOT

*** DESIGN LOADS (RECORD 32) AND RATIOS (RECORD 17) ***

00 WNVNET = 1P(43) 01

*** VERTICAL TAIL ***

STATION	LC	+V	RS	RNZ	RSO(+V)	RSO/RNZ
1	22	1926.	1.000	.531	1926.	.531
2	22	7860.	1.000	.531	7860.	.531
3	22	16121.	1.000	.531	16121.	.531
4	22	24759.	1.000	.531	24759.	.531
5	22	33740.	1.000	.531	33740.	.531
6	22	43008.	1.000	.531	43008.	.531
7	22	52482.	1.000	.531	52482.	.531
8	22	62078.	1.000	.531	62078.	.531
9	22	71737.	1.000	.531	71737.	.531
10	22	81418.	1.000	.531	81418.	.531
11	22	91094.	1.000	.531	91094.	.531

STATION	LC	-V	RS	RNZ	RSO(-V)	RSO/RNZ
1	22	-1926.	1.000	.531	-1926.	.531
2	22	-7860.	1.000	.531	-7860.	.531
3	22	-16121.	1.000	.531	-16121.	.531
4	22	-24759.	1.000	.531	-24759.	.531
5	22	-33740.	1.000	.531	-33740.	.531
6	22	-43008.	1.000	.531	-43008.	.531
7	22	-52482.	1.000	.531	-52482.	.531
8	22	-62078.	1.000	.531	-62078.	.531
9	22	-71737.	1.000	.531	-71737.	.531
10	22	-81418.	1.000	.531	-81418.	.531
11	22	-91094.	1.000	.531	-91094.	.531

STATION	LC	+HM	RS	RNZ	RSO(+HM)	RSO/RNZ
1	15	1363540.	1.000	0.000	1363540.	0.000
2	15	1363540.	1.000	0.000	1363540.	0.000
3	15	1363540.	1.000	0.000	1363540.	0.000
4	23	1436794.	1.000	.530	1436794.	.530
5	23	2370127.	1.000	.530	2370127.	.530
6	23	3545840.	1.000	.530	3545840.	.530
7	23	5122204.	1.000	.530	5122204.	.530
8	23	6454735.	1.000	.530	6454735.	.530
9	23	9096554.	1.000	.530	9096554.	.530
10	23	11549134.	1.000	.530	11549134.	.530
11	23	14312770.	1.000	.530	14312770.	.530

STATION	LC	-HM	RS	RNZ	RSO(-HM)	RSO/RNZ
1	15	-1363540.	1.000	0.000	-1363540.	0.000
2	15	-1363540.	1.000	0.000	-1363540.	0.000
3	15	-1363540.	1.000	0.000	-1363540.	0.000
4	23	-1436794.	1.000	.530	-1436794.	.530
5	23	-2370127.	1.000	.530	-2370127.	.530
6	23	-3545840.	1.000	.530	-3545840.	.530
7	23	-5122204.	1.000	.530	-5122204.	.530
8	23	-6454735.	1.000	.530	-6454735.	.530
9	23	-9096554.	1.000	.530	-9096554.	.530
10	23	-11549134.	1.000	.530	-11549134.	.530
11	23	-14312770.	1.000	.530	-14312770.	.530

** BLCNTL - IP(54) **

LOAD CONDITION	ALTITUDE FEET	MACH NUMBER	PRESSURE PSI	LOCAL TEMP DEG R	TOTAL TEMP DEG R	SUN FLUX BTU/HR/FT2	SKIN TEMP DEG F	WING STRESS	STRESS HORIZONTAL	STRESS VERTICAL
1 +NZ BALANCED	0.	0.6000	14.70	518.7	556.0	358.8	555.0	66000.	66000.	66000.
2 +NZ BALANCED	0.	0.6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 +NZ BALANCED	22500.	0.8700	6.06	438.4	504.6	429.1	505.5	66000.	66000.	66000.
4 +NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 +NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 -NZ BALANCED	0.	0.5740	14.70	518.7	552.8	358.8	552.4	66000.	66000.	66000.
7 -NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 FLAP DOWN MANEUVER	0.	0.3234	14.70	518.7	530.2	358.8	534.7	66000.	66000.	66000.
9 FLAP DOWN 1 G TRIM	0.	0.1609	14.70	518.7	522.3	358.8	531.4	66000.	66000.	66000.
10 + VERTICAL GUST	0.	0.5740	14.70	518.7	552.8	358.8	552.4	66000.	66000.	66000.
11 + VERTICAL GUST	20000.	0.6140	6.75	447.3	506.6	425.0	507.6	66000.	66000.	66000.
12 + VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 + VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 - VERTICAL GUST	0.	0.5740	14.70	518.7	552.8	358.8	552.4	66000.	66000.	66000.
15 - VERTICAL GUST	20000.	0.8140	6.75	447.3	506.6	425.0	507.6	66000.	66000.	66000.
16 - VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17 - VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 LATERAL GUST	0.	0.5740	14.70	518.7	552.8	358.8	552.4	66000.	66000.	66000.
19 LATERAL GUST	20000.	0.6140	6.75	447.3	506.6	425.0	507.6	66000.	66000.	66000.
20 PITCH ACCELERATION	0.	0.6000	14.70	518.7	556.0	358.8	555.0	66000.	66000.	66000.
21 PITCH ACCELERATION	22500.	0.8700	6.08	438.4	504.8	429.1	505.5	66000.	66000.	66000.
22 YAW ACCELERATION	0.	0.6000	14.70	518.7	556.0	358.8	555.0	66000.	66000.	66000.
23 YAW ACCELERATION	22500.	0.8700	6.08	438.4	504.8	429.1	505.5	66000.	66000.	66000.

DESIGN TEMPERATURE CONDITION

WING	80.0	3
HORIZONTAL	80.0	15
VERTICAL	80.0	23

*** MAXIMUM NET BENDING MOMENTS FOR FATIGUE ***

RM AT SOR	CONDITION	NZ	INERTIA BM/NZ	NET BM AT SOR
140137616.	3	2.50	-28266704.	69470864.
FM AT STA 2	CONDITION	NZ	INERTIA FM/NZ	NET FM AT STA 2
124261152.	3	2.50	-22037552.	49167220.

•• FATMG - IP(55) •

SPECTRA SEGMENT NO 1.

SOF	HEND	MOM	*OS	HEND	MOM	EXCEEDANCFS-GUST	EXCEEDANCFS-MAN
103367919.	964596A7.					.45545F-10	0.
95207294.	88A44449.					.16170F-0A	0.
87046666.	A1229210.					.39890E-07	.45000E-01
74886043.	73613972.					.98406E-06	.25500E+00
7072541A.	65998734.					.24276F-04	.13500E+01
62564793.	58363495.					.59889E-03	.60000E+01
54404168.	50768257.					.14774E-01	.28500E+02
46243543.	43153018.					.36447E+00	.15750E+03
34082917.	35537780.					.90369F+01	.22050E+04
29922242.	27922541.					.3A250E+04	.10500E+06
24481876.	22845715.					.3A250E+04	.12000E+05
16321250.	15230477.					.90369F+01	.20400E+03
A160625.	7615238.					.36447E+00	.45000E+00
0.	0.					.14774E-01	.15000E-02
-A160625.	-7615238.					.59889E-03	0.
-16321250.	-15230477.					.24276F-04	0.
-24481876.	-22845715.					.98406F-06	0.
-32642501.	-30460954.					.39890E-07	0.
-40M03126.	-38076192.					.16170E-08	0.
-48963751.	-45691431.					.65545E-10	0.

16 SOF M = 27202084. 16 MOS M = 253A412A.

SPECTRA SEGMENT NO 11.

GROUND-AIR-GROUND CYCLES

SOF	HEND	MOM	*OS	HEND	MOM	OCCURRENCES
34002605.						.12000E+05
-3473A299.						.12000E+05

OUTPUT TABLES AND CONTROLS

FATIGUE ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for fatigue module
56	(5,0)	Fatigue	FATGUE	BC array, input data from FATMG subroutine in loads program
57	(5,0)	Fatigue	FTGCTL	Stress spectra for wing at side of fuselage
57	(5,0)	Fatigue	FATIGU	Number of iterations, calculated life, etc
57	(5,0)	Fatigue	FTGCTL	N value at end of each spectra segment
57	(5,0)	Fatigue	FTGCTL	Fuselage pressure cycle input
57	(5,0)	Fatigue	FATIGU	Final damage table and endurance limit starting values
57	(5,0)	Fatigue	FATIGU	Damage table
58	(5,0)	Fatigue	FATIGU	Intermediate values of life interpolation calculations
-	(5,0)	Fatigue	FATIGU	Final results

•• OLAY00 - IP(40) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

**** F A T I G U E (OVERLAY 5) ****

*** BMA(3,220) FROM SUBROUTINE FATMO IN LOADS PROGRAM IN RECORD 35 ***

	SOF BEND MOM	WOS BEND MOM	EXCEEDANCES-GUST	EXCEEDANCES-MANU
1	103367919.	96459687.	.65545E-10	0.
2	95207294.	88844449.	.16170E-08	0.
3	87046668.	81229210.	.39890E-07	.45000E-01
4	78886043.	73613972.	.98406E-06	.25500E+00
5	70725418.	65998734.	.24276E-04	.13500E+01
6	62564793.	58383495.	.59889E-03	.60000E+01
7	54404168.	50768257.	.14774E-01	.28500E+02
8	46243543.	43153018.	.36447E+00	.15750E+03
9	38082917.	35537780.	.90369E+01	.22050E+04
10	29922292.	27922541.	.38250E+04	.10500E+06
11	24481876.	22845715.	.38250E+04	.12000E+05
12	16321250.	15230477.	.90369E+01	.20400E+03
13	8160625.	7615238.	.36447E+00	.45000E+00
14	0.	0.	.14774E-01	.15000E-02
15	-8160625.	-7615238.	.59889E-03	0.
16	-16321250.	-15230477.	.24276E-04	0.
17	-24481876.	-22845715.	.98406E-06	0.
18	-32642501.	-30460954.	.39890E-07	0.
19	-40803126.	-38076192.	.16170E-08	0.
20	-48963751.	-45691431.	.65545E-10	0.
21	83727029.	76706373.	.21444E-05	0.
22	77117000.	70650607.	.20139E-04	0.
23	70506972.	64544841.	.18915E-03	.45000E-01
24	63896943.	58539074.	.17764E-02	.25500E+00
25	57286915.	52483308.	.16684E-01	.13500E+01
26	50676886.	46427542.	.15669E+00	.60000E+01
27	44066857.	40371775.	.14721E+01	.28500E+02
28	37456829.	34316009.	.14046E+02	.15750E+03
29	30846800.	28260243.	.24215E+03	.22050E+04
30	24236772.	22204476.	.57455E+05	.10500E+06
31	19830086.	18167299.	.57455E+05	.12000E+05
32	13220057.	12111533.	.24215E+03	.20400E+03
33	6610029.	6055766.	.14046E+02	.45000E+00
34	0.	0.	.14721E+01	.15000E-02
35	-6610029.	-6055766.	.15669E+00	0.
36	-13220057.	-12111533.	.16684E-01	0.
37	-19830086.	-18167299.	.17764E-02	0.
38	-26440114.	-24223065.	.18915E-03	0.
39	-33050143.	-30278832.	.20139E-04	0.
40	-39660172.	-36334598.	.21444E-05	0.
41	91581788.	86146921.	.16066E-04	0.
42	84351647.	79345848.	.12323E-03	0.
43	77121506.	72544775.	.94515E-03	0.
44	69891364.	65743703.	.72494E-02	0.
45	62661223.	58942630.	.55603E-01	.22500E-01
164	-49212590.	-38414557.	.36000E+00	0.
165	-46317732.	-36154877.	.10800E+02	0.
166	-43422873.	-33895197.	.24000E+03	0.
167	-40528015.	-31635517.	.54000E+04	0.
168	-37633157.	-29375838.	.10800E+06	0.

169	-34738299.	-27116158.	.10320E+07	0.
170	-31843440.	-24856478.	.39600E+07	0.
171	-26053724.	-20337118.	.39600E+07	0.
172	-23158866.	-18077439.	.10320E+07	0.
173	-20264008.	-15817759.	.10800E+06	0.
174	-17369149.	-13558079.	.54000E+04	0.
175	-14474291.	-11298399.	.24000E+03	0.
176	-11579433.	-9038719.	.10800E+02	0.
177	-8684575.	-6779039.	.36000E+00	0.
178	-5789716.	-4519360.	.12000E-01	0.
179	-4342287.	-3389520.	.24000E-02	0.
180	-2894858.	-2259680.	.48000E-03	0.
181	-39353897.	-30723214.	.48000E-03	0.
182	-38318268.	-29914708.	.24000E-02	0.
183	-37282640.	-29106203.	.12000E-01	0.
184	-35211382.	-27489191.	.36000E+00	0.
185	-33140124.	-25872180.	.10800E+02	0.
186	-31068866.	-24255169.	.24000E+03	0.
187	-28997609.	-22638158.	.54000E+04	0.
188	-26926351.	-21021146.	.10800E+06	0.
189	-24855093.	-19404135.	.10320E+07	0.
190	-22783835.	-17787124.	.39600E+07	0.
191	-18641320.	-14553101.	.39600E+07	0.
192	-16570062.	-12936090.	.10320E+07	0.
193	-14498804.	-11319079.	.10800E+06	0.
194	-12427547.	-9702068.	.54000E+04	0.
195	-10356289.	-8085056.	.24000E+03	0.
196	-8285031.	-6468045.	.10800E+02	0.
197	-6213773.	-4851034.	.36000E+00	0.
198	-4142516.	-3234023.	.12000E-01	0.
199	-3106887.	-2425517.	.24000E-02	0.
200	-2071258.	-1617011.	.48000E-03	0.
201	34002605.	31730160.	.12000E+05	0.
202	-34738299.	-27116158.	.12000E+05	0.

REFERENCE BENDING MOMENTS FOR MANEUVER
SEGMENT S0P W0S

1	27202084.	25384128.
2	22033429.	20185888.
3	24100471.	22670242.
4	22440940.	21665955.
5	24274723.	22623887.
6	21841307.	20259060.
7	21899509.	20232652.
8	22007397.	20197382.

HMSMX(1) = 68061619.
HMSMX(2) = 67905172.

FATIGUE INPUT DATA

•• FT0CTL = IP(57) •

M= .3000000E+05 SF= .4000000E+01 KT= .3000000E+01

F1U= .8100000E+05 E= .1050000E+08 RA= .1800000E+00

NPT= 157

SIDE OF FUSELAGE

STRESS LEVELS SET UP FROM BENDING MOMENTS TIMES .413571E-03

1	.4050000E+05	-.1800000E+05	.1551425E-08
2	.3712500E+05	-.1462500E+05	.3827290E-07
3	.3712500E+05	.1125000E+05	.4500000E-01
4	.3375000E+05	-.1125000E+05	.9441740E-06
5	.3375000E+05	.1125000E+05	.2100000E+00
6	.3037500E+05	-.7675000E+04	.2320231E-04
7	.3037500E+05	.1125000E+05	.1095000E+01
8	.2700000E+05	-.4500000E+04	.5746101E-03
9	.2700000E+05	.1125000E+05	.4650000E+01
10	.2362500E+05	-.1125000E+04	.1417535E-01
11	.2362500E+05	.1125000E+05	.2250000E+02
12	.1125000E+05	-.1125000E+04	.1500000E-02
13	.2025000E+05	.2250000E+04	.3494996E+00
14	.2025000E+05	.1125000E+05	.1290000E+03
15	.1125000E+05	.2250000E+04	.4485000E+00
16	.1687500E+05	.5625000E+04	.8672425E+01
17	.1687500E+05	.1125000E+05	.2047500E+04
18	.1125000E+05	.5625000E+04	.2035500E+03
19	.1350000E+05	.9000000E+04	.3815917E+04
20	.1350000E+05	.1125000E+05	.1027950E+06
21	.1125000E+05	.9000000E+04	.1179600E+05
22	.3280461E+05	-.1457983E+05	.1799502E-04
23	.3007090E+05	-.1184611E+05	.1690061E-03
24	.3007090E+05	.9112393E+04	.4500000E-01
25	.2733718E+05	-.9112393E+04	.1587276E-02
26	.2733718E+05	.9112393E+04	.2100000E+00
27	.2460346E+05	-.6378675E+04	.1490742E-01
28	.2460346E+05	.9112393E+04	.1095000E+01
29	.2186974E+05	-.3644957E+04	.1400087E+00
30	.2186974E+05	.9112393E+04	.4650000E+01
31	.1913602E+05	-.9112393E+03	.1315376E+01
32	.1913602E+05	.9112393E+04	.2250000E+02
33	.9112393E+04	-.9112393E+03	.1500000E-02
105	.2167905E+05	-.3613175E+04	.3198012E+01
106	.2167905E+05	.9032937E+04	.1410000E+00
107	.1896917E+05	-.9032937E+03	.1491807E+02
108	.1896917E+05	.9032937E+04	.2850000E+01
109	.9032937E+04	-.9032937E+03	.3000000E-02

110	.1625929E+05	.1806587F+04	.7594889F+02
111	.1625929E+05	.9032937E+04	.7200000E+02
112	.9032937E+04	.1806587E+04	.4470000F+00
113	.1354941E+05	.4516468E+04	.1279552F+04
114	.1354941E+05	.9032937E+04	.2400000F+04
115	.9032937E+04	.4516468E+04	.6555000F+02
116	.1083952E+05	.7226349E+04	.1359838F+06
117	.1083952E+05	.9032937E+04	.8752500E+05
118	.9032937E+04	.7226349E+04	.5694000F+04
119	.3260523E+05	-.1449121E+05	.3258945F-02
120	.2988812E+05	-.1177411F+05	.1671530F-01
121	.2711102E+05	-.9057007E+04	.8573380F-01
122	.2445392E+05	-.6339905E+04	.4397499F+00
123	.2445392E+05	.9057007E+04	.4500000E-02
124	.2173682E+05	-.3622803E+04	.2257070F+01
125	.2173682E+05	.9057007E+04	.7050000E-01
126	.1901972E+05	-.9057007E+03	.1172337F+02
127	.1901972E+05	.9057007E+04	.1425000F+01
128	.9057007E+04	-.9057007E+03	.1500000E-02
129	.1630261E+05	.1811401E+04	.7383704F+02
130	.1630261E+05	.9057007E+04	.3600000E+02
131	.9057007E+04	.1811401E+04	.2235000F+00
132	.1358551E+05	.4528504E+04	.1659159F+04
133	.1358551E+05	.9057007E+04	.1200000F+04
134	.9057007E+04	.4528504E+04	.3277500F+02
135	.1086841E+05	.7245606E+04	.1281206F+06
136	.1086841E+05	.9057007E+04	.4376250F+05
137	.9057007E+04	.7245606E+04	.2847000F+04
138	.3276586E+05	-.1456260E+05	.7484682F-04
139	.3003537E+05	-.1183212E+05	.7676457F-03
140	.2730488E+05	-.9101627E+04	.7871600F-02
141	.2457439E+05	-.6371139E+04	.8077513F-01
142	.2457439E+05	.9101627E+04	.4500000F-02
143	.2184390E+05	-.3640651E+04	.8349259F+00
144	.2184390E+05	.9101627E+04	.7050000E-01
145	.1911342E+05	-.9101627E+03	.9250675F+01
146	.1911342E+05	.9101627E+04	.1425000F+01
147	.9101627E+04	-.9101627E+03	.1500000E-02
148	.1638293E+05	.1820325F+04	.1675539F+03
149	.1638293E+05	.9101627E+04	.3600000E+02
150	.9101627E+04	.1820325F+04	.2235000F+00
151	.1365244E+05	.4550813F+04	.9275279F+04
152	.1365244E+05	.9101627E+04	.1200000F+04
153	.9101627E+04	.4550813E+04	.3277500F+02
154	.1092195E+05	.7281302E+04	.8815502F+06
155	.1092195E+05	.9101627E+04	.4376250F+05
156	.9101627E+04	.7281302E+04	.2847000F+04
157	.1406250E+05	-.1436676F+05	.1200000F+05

NUMBER OF ITERATIONS IN SUBROUTINE FATIGU = 3
 CALC. LIFE(HR) .119A93E+06
 REQUIRED LIFE(HR) .120000E+06
 HIGHEST FMAX= .341A93E+05 = 42.20PCT FTU
 ** FATIGU - IP(47) *

N	FMAX	FMIN	APP.CYC.	DAMAGE 1	PCT	DAMAGE 2	PCT
1	341A4.	-15193.	0.	.12A896E-12	.00	.12A896E-12	.00
2	31335.	-12344.	0.	.184651E-11	.00	.233603E-11	.00
3	31335.	9495.	0.	.1A5456E-06	.00	.562725E-05	.18
4	28486.	-5495.	0.	.233268E-10	.00	.399611E-10	.00
5	28486.	9495.	0.	.361169E-06	.00	.103109E-04	.33
6	25638.	-6647.	0.	.244435E-09	.00	.602215E-09	.00
7	25638.	9495.	0.	.594367E-06	.00	.166927E-04	.53
8	22789.	-3798.	0.	.191724E-08	.00	.705587E-08	.00
9	22789.	9495.	0.	.506132E-06	.00	.139086E-04	.44
10	19941.	-950.	0.	.924206E-08	.00	.493874E-07	.00
11	19941.	9495.	1.	.233230E-06	.00	.534754E-05	.17
12	9495.	-950.	0.	.389825E-12	.00	.876964E-12	.00
13	17092.	1899.	0.	.197454E-07	.00	.111434E-06	.00
14	17092.	9495.	6.	.409240E-07	.00	.521089E-06	.02
15	9495.	1899.	0.	.689509E-11	.00	.165238E-10	.00
16	14243.	4748.	0.	.605947E-08	.00	.281056E-07	.00
17	14243.	9495.	102.	.290406E-08	.00	.173835E-07	.00
18	9495.	4748.	10.	.369677E-10	.00	.939687E-10	.00
19	11395.	7596.	191.	.178591E-09	.00	.587118E-09	.00
20	11395.	9495.	5140.	.451351E-11	.00	.156945E-10	.00
21	9495.	7596.	590.	.217964E-12	.00	.588133E-12	.00
22	27689.	-12306.	0.	.521516E-09	.00	.588138E-09	.00
23	25381.	-9999.	0.	.259493E-08	.00	.371393E-08	.00
24	25381.	7691.	0.	.352802E-07	.00	.726938E-06	.02
25	23074.	-7691.	0.	.109936E-07	.00	.207487E-07	.00
26	23074.	7691.	0.	.542938E-07	.00	.105771E-05	.03
27	20766.	-5384.	0.	.367602E-07	.00	.942475E-07	.00
28	20766.	7691.	0.	.651764E-07	.00	.113383E-05	.04
29	18459.	-3077.	0.	.861563E-07	.00	.294090E-06	.01
30	18459.	7691.	0.	.378371E-07	.00	.509089E-06	.02
31	16152.	-769.	0.	.114556E-06	.00	.460040E-06	.01

32	16152.	7691.	1.	.123A59E-07	.00	.104176E-06	.00
33	7691.	-769.	0.	.308562E-13	.00	.649776E-13	.00
34	13844.	1538.	1.	.593730E-07	.00	.216854E-06	.01
35	13844.	7691.	6.	.173188E-08	.00	.870418E-08	.00
36	7691.	1538.	0.	.473743E-12	.00	.103728E-11	.00
37	11537.	3846.	11.	.890399E-08	.00	.267264E-07	.00
38	11537.	7691.	102.	.115278E-09	.00	.387439E-09	.00
39	7691.	3846.	10.	.220889E-11	.00	.501509E-11	.00
40	9230.	6153.	2861.	.127491E-09	.00	.326950E-09	.00
133	11467.	7645.	60.	.616945E-10	.00	.205085E-09	.00
134	7645.	3822.	2.	.328419E-12	.00	.744055E-12	.00
135	9173.	6116.	6406.	.262119E-09	.00	.669134E-09	.00
136	9173.	7645.	2188.	.744491E-13	.00	.196334E-12	.00
137	7645.	6116.	142.	.248705E-14	.00	.586090E-14	.00
138	27656.	-12291.	0.	.215574E-08	.00	.243304E-08	.00
139	25351.	-9987.	0.	.117040E-07	.00	.167626E-07	.00
140	23047.	-7682.	0.	.540929E-07	.00	.102142E-06	.00
141	20742.	-5378.	0.	.197387E-06	.00	.506189E-06	.02
142	20742.	7682.	0.	.264186E-09	.00	.458019E-08	.00
143	18437.	-3073.	0.	.508502E-06	.00	.173433E-05	.05
144	18437.	7682.	0.	.564855E-09	.00	.756447E-08	.00
145	16133.	-768.	0.	.796424E-06	.00	.319250E-05	.10
146	16133.	7682.	0.	.771198E-09	.00	.644611E-08	.00
147	7682.	-768.	0.	.304197E-13	.00	.640436E-13	.00
148	13828.	1536.	8.	.778427E-06	.00	.284151E-05	.09
149	13828.	7682.	2.	.474825E-09	.00	.237724E-08	.00
150	7682.	1536.	0.	.232387E-12	.00	.509079E-12	.00
151	11523.	3841.	464.	.356260E-06	.00	.106755E-05	.03
152	11523.	7682.	60.	.663788E-10	.00	.222616E-09	.00
153	7682.	3841.	2.	.350176E-12	.00	.794724E-12	.00
154	9219.	6146.	44078.	.193227E-08	.00	.495082E-08	.00
155	9219.	7682.	2188.	.799464E-13	.00	.211679E-12	.00
156	7682.	6146.	142.	.265972E-14	.00	.628075E-14	.00
157	11869.	-12126.	600.	.391031E-02	1.56	.299741E-02	94.63
CUMULATIVE DAMAGE FOR EACH BLOCK							98.43
NUMBER OF RESIDUAL DAMAGE BLOCKS 78.92H							

N FOR END OF EACH SPECTRA SEGMENT FOLLOWS ** FTGCTL = IP(27) *

1	21
2	42
3	61
4	80
5	99
6	118
7	137
8	156
9	156
10	156

FATIGUE INPUT DATA

M= .3000000E+05 SF= .4000000E+01 KT= .3000000E+01
P10= .7300000E+05 F= .1050001E+08 RA= .1800000E+00 NPT= 1

FUSELAGE COVER

STRESS LEVELS SET UP FROM FUSELAGE PRESSURES TIMES .212209E+04

1	.1825000E+05	n.	.2000000E+05
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NUMBER OF ITERATIONS IN SUBROUTINE FATIGU = 3 ** FATIGU - IP(27) *
 CALC. LIFE(HR) REQUIRED LIFE(HR)
 .119924E+06 .120000E+06
 HIGHEST FMAX = .162633E+05 = 22.28PCT FTU

N	FMAX	FMIN	APP.CYC.	DAMAGE 1	PCT	DAMAGE 2	PCT
1	16263.	0.	1000.	.312698E-02	1.25	.312698E-02	98.75

CUMULATIVE DAMAGE FOR EACH BLOCK .312698E-02 1.25 .312698E-02 98.75

NUMBER OF RESIDUAL DAMAGE BLOCKS 78.949

ENDURANCE LIMIT
 1 .3650000E+05 --.3650000E+05 .1000000E+10

NUMBER OF ITERATIONS IN SUBROUTINE FATIGU = 3
 CALC. LIFE(HR) REQUIRED LIFE(HR)
 .299797E+05 .300000E+05
 HIGHEST FMAX = .139254E+05 = 19.08PCT FTU

N	FMAX	FMIN	APP.CYC.	DAMAGE 1	PCT	DAMAGE 2	PCT
1	13925.	-13925.	50000000.	.500339E-01	5.00	.500339E-01	95.00

CUMULATIVE DAMAGE FOR EACH BLOCK .500339E-01 5.00 .500339E-01 95.00

NUMBER OF RESIDUAL DAMAGE BLOCKS 18.986

•• FATIGUE - IP(44) •

65	.1984504E+00	.978745JF+05	.7714786E-02	.119A651F+01	.1015597E+01
70	.1163592E+00	.932730JE+01	.6954507E+00	.531307AE+01	.1050000E+05
75	.2045121E-07	.1066377F+06	.6313976E+01	.5000000E+00	.1000000E+10

CURVE SET-UP

.4523809E-07	.1000000E+01	.1265151E+00	.1000000E+01
.2968961E-05	.3117400E+02	.4535945E-01	.1000000E+02
.4255466E-04	.4718240E+03	.1848093F-01	.1000000E+03
.3030J71E-02	.3029573E+04	.912390F-02	.1000000E+04
.115+123E-01	.6059147F+04	.5512744F-02	.1000000E+05
.5842544E-01	.4088720E+04	.3857070E-02	.1000000E+06
.1216651E+05	.4382858F+04	.2297918F-02	.1000000E+09
.2964353E+10	.4088519E+07	.1187031F-02	.1000000E+11
.7246552E+15	.1000000E+09	.4022394F-04	.1000000E+15
		.1716067F-04	.1000000E+20

-16.168886	0.000000	-2.047344	0.000000
-12.72248	3.479587	-3.093137	2.302505
-4.287711	6.874175	-3.901014	4.605170
-6.709070	10.318762	-4.698849	6.907735
-4.441829	11.011909	-5.200444	9.210360
-7.839947	11.417376	-5.557967	11.512925
4.406747	13.751810	-6.875759	14.118046
71.800425	16.008244	-6.716308	23.025851
36.214080	18.420881	-7.504436	32.236191
		-8.670308	43.749117

***** NTIME= 1	MCALC= .3044945E+05	FACT0R= .7945365E+00	TF= .7945365E+00
.1033035E+02	.1441844E+02	0.	
0.	.1448948E+02	.1149525E+02	-.2274823F+00
***** NTIME= 2	MCALC= .2004313E+04	FACT0R= .1044206E+01	TF= .8476792E+01
.1033035E+02	.1441844E+02	.1220922E+02	.1448948E+02
.1220922E+02	.1475171E+02	.1149525E+02	-.2729638E+05
***** NTIME= 3	MCALC= .1144047E+04	FACT0R= .9957108E+00	TF= .8440433E+00
.1165711F+02	.1475171E+02	.1220922F+02	.1448948E+02
.1165711F+02	.1474761E+02	.1149525E+02	-.2824328F+05

CHANGES MADE TO MATERIAL PROPERTIES BY FATIGUE PROGRAM

•• FTA(4) •

SIDE OF FUSELAGE •• MATL NO 4.

IMP(133) CHANGED FROM 1.0000 TO .2933

WING STATION 2 •• MATL NO 4.

IMP(134) CHANGED FROM 1.0000 TO .3242

FUSELAGE COVER •• MATL NO 4.

IMP(130) CHANGED FROM .2250 TO .1408

IMP(132) CHANGED FROM .4000 TO .2228

FUSELAGE MINOR FRAME •• MATL NO 4.

IMP(130) CHANGED FROM .2250 TO .1408

IMP(132) CHANGED FROM .4000 TO .2228

OUTPUT TABLE AND CONTROLS

LANDING GEAR STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for landing gear module
59	(6,0)	Landing Gear	LANDGR	Landing gear input data
60	(6,0)	Landing Gear	LGEAR	Landing gear loads
-	(6,0)	Landing Gear	LGWT	Main gear weight and design summary, always printed
-	(6,0)	Landing Gear	LGWT	Nose gear weight and design summary, always printed

•• OLAY00 - IP(40) ••

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE

**** L A N D I N G G E A R (OVERLAY 6) ****

*** LANDING GEAR DATA ***

*** LANDGR - IP(59) **

46 TAKE-OFF WEIGHT	314000.01	R1 NOSE GEAR LENGTH	41.50
47 LANDING WEIGHT	257500.02	R2 NOSE GEAR STROKE	12.00
48 ARMED TAKE-OFF DELTA WT	0.00	R3 NOSE GEAR PISTON DIAMETER	0.00
49 AIRCRAFT CG AT TAKE-OFF	931.21	R4 NOSE GEAR ECCENTRICITY	0.00
50 AIRCRAFT CG AT LANDING	933.01	R5 NOSE GEAR WHEELS/STRUT	2.00
51 AIRCRAFT CG TO GROUND	154.21	R6 STRUT ANGLE (FORE-AFT)	0.00
52 MAIN GEAR FUSELAGE STATION	991.77	R7 NOSF GEAR TIME OD	36.00
53 NOSE GEAR FUSELAGE STATION	354.75	R8 NOSE GEAR TIRE WIDTH	11.00
54 DIST BETWEEN STRUTS	210.00	R9 TAKE-OFF WEIGHT SINK SPEED	6.00
55 HEAT TREATMENT OF MATERIAL	240000.00	R0 LANDING WEIGHT SINK SPEED	10.00
56 POISSONS RATIO	.33	R1 TAKE-OFF WT LANDING SPEED	231.83
57 FCY	165000.00	R2 LANDING WT LANDING SPEED	208.61
58 MODULUS OF ELASTICITY	30000000.00	R3 TAKE-OFF WT LOAD FACTOR	0.00
59 DENSITY OF MATERIAL	.28	R4 LANDING WEIGHT LOAD FACTOR	0.00
60 MAIN DEFLECTION INDICATOR	0.00	R5 CL AT TAKE-OFF WEIGHT	0.00
61 NOSE DEFLECTION INDICATOR	0.00	R6 CL AT LANDING WEIGHT	0.00
62 AUXILIARY GEAR INDICATOR	1.00	R7 WING AREA	0.00
63 MAIN GEAR WEIGHT COEFF	1.00	R8 WING LIFT COEFFICIENT	1.00
64 NOSE GEAR WEIGHT COEFF	1.00	R9 TOTAL LANDING GE R WEIGHT	0.00
65 OUTER CYL WEIGHT COEFF	1.00	R0 MAIN GEAR WHEEL WEIGHT	0.00
66 INNER CYL WEIGHT COEFF	1.00	R1 MAIN GEAR INERTIA	0.00
67 ROGIE WEIGHT COEFF	1.00	R2 MAIN GEAR TIRE WEIGHT	0.00
68 MAIN DRAG STRUT WT COEFF	4.00	R3 BRAKE WEIGHT	0.00
69 MAIN SIDE STRUT WT COEFF	0.00	R4 MISCELLANEOUS WEIGHT	0.00
70 NOSE DRAG STRUT WT COEFF	4.00	R5 NOSE GEAR WHEEL WEIGHT	0.00
71 NOSE SIDE STRUT WT COEFF	0.00	R6 NOSE GEAR TIME WEIGHT	0.00
72 MAIN GEAR LENGTH	61.70	R7 MAIN GEAR AL (FORE-AFT)	0.00
73 MAIN GEAR STROKE	28.00	R8 MAIN GEAR NL (FORE-AFT)	0.00
74 MAIN GEAR PISTON DIAMETER	0.00	R9 MAIN GEAR AL (DRIFT LAND)	0.00
75 MAIN GEAR ECCENTRICITY	0.00	R0 MAIN GEAR NL (DRIFT LAND)	0.00
76 MAIN GEAR WHEELS/STRUT	4.00	R1 MAIN GEAR AL (TURNING)	0.00
77 STRUT ANGLE (FORE-AFT)	0.00	R2 MAIN GEAR NL (TURNING)	0.00
78 STRUT ANGLE (LATERAL)	0.00	R3 NOSE GEAR AL (FORE-AFT)	0.00
79 MAIN GEAR TIMES OD	44.00	R4 NOSE GEAR NL (FORE-AFT)	0.00
80 MAIN GEAR TIME WIDTH	16.00	R5 NOSE GEAR AL (TURNING)	0.00
		R6 NOSE GEAR NL (TURNING)	0.00

•• LGEAR - IP(60) ••

LANDING SPEED SINKING SPEED
(FT/SEC) (FT/SEC)

LOAD FACTOR

WEIGHT

TAKE-OFF	316000.0	1.270	231.8	6.00
LANDING	257500.0	1.749	208.6	10.00

LANDING GEAR LOADS

MAIN LANDING GEAR NOSE LANDING GEAR

TAKE-OFF LANDING TAKE-OFF LANDING

TWO POINT	AXIAL	64337.	144713.	12233.	26699.
	NORMAL	16084.	36178.	3058.	6675.
SPIN UP	AXIAL	62425.	125776.	12233.	23134.
	NORMAL	48067.	96848.	9419.	17813.
SPRING BACK	AXIAL	64337.	144713.	12233.	26699.
	NORMAL	42917.	86471.	8410.	15905.
BRAKED ROLL	AXIAL	238500.	231750.		
	NORMAL	190800.	185400.		
DRIFT LANDING	AXIAL	32148.	72356.		
	NORMAL	25735.	57885.		
UNSYS. BRAKING	AXIAL	196772.	159832.	87146.	69583.
	NORMAL	157418.	127866.	35575.	28896.
TOWING	AXIAL	215820.		45347.	
	NORMAL	53663.		71550.	
TURNING	AXIAL	347969.		45347.	
	NORMAL	195444.		22674.	

** LGWT **

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MAIN LANDING GEAR WEIGHTS (POUNDS)

OUTER CYLINDER 365.9
PISTON 155.9
AXLE 501.6
GIL 241.7
DRAG STRUT 369.1
SIDE STRUT 0.0
WHEELS 1148.1
TIRES 1403.2
MISC (CALC.) 2829.1
SPAKES 751.9
BOLL 605.2
MISC (INPUT) 0.0

TOTAL 8365.3

MAIN LANDING GEAR DESIGN DATA

DESIGN LOAD CONDITION #	APFA (SQ IN)	DIAMETER TO THICKNESS RATIO	BENDING MODULUS OF RUPTURE	TORSIONAL MODULUS OF RUPTURE
16	18.08	26.65	279836.	116399.
16	12.85	36.29	258496.	107000.
2	9.11	50.00	237500.	98514.
2	7.52	50.00	237500.	98514.

OUTER CYLINDER TOP 11.05
MIDDLE 11.05
BOTTOM 11.05

PISTON (20 PCT OF LENGTH FROM AXLE)

PISTON DIAMETER (INCHES) 11.05
AFT DEFLECTION (INCHES) 0.0
SIDE DEFLECTION (INCHES) 0.0
ANGLE OF TWIST (RADIAN) 0.0

CC - BELOW TRUNION POINT 54.3
CG - OUTBOARD (INBOARD) FROM TRUNION POINT 0.0
CC - AFT (FORWARD) FROM TRUNION POINT 0.9

** LGWT **

NOSE LANDING GEAR WEIGHTS (POUNDS)

CYCLINDER	42.2
PISTON	17.6
AXLE	23.2
WHEEL	12.6
DRAG STRUT	46.5
SIDE STRUT	0.0
WHEELS	142.7
TIRES	174.4
MISC (CALC.)	207.2
TOTAL	674.8

NOSE LANDING GEAR DESIGN DATA

ITEM	DESIGN LOAD CONDITION **	AREA (SQ IN)	DIAMETER TO THICKNESS RATIO	BENDING MODULUS OF RUPTURE	TORSIONAL MODULUS OF RUPTURE
OUTER CYLINDER	14	6.38	28.87	274445.	113965.
PISTON	14	4.25	41.03	250005.	103422.
AXLE	2	2.52	50.00	237500.	98514.
WHEELS	2	2.71	50.00	237500.	98514.
DRAG STRUT	14				
SIDE STRUT	14				
WHEELS	14				
TIRES	14				
MISC (CALC.)	14				
TOTAL	14				

** DESIGN LOAD CONDITION INDICATORS

ITEM	DESIGN LOAD CONDITION	INDICATOR
OUTER CYLINDER	14	14
PISTON	14	14
AXLE	2	2
WHEELS	2	2
DRAG STRUT	14	14
SIDE STRUT	14	14
WHEELS	14	14
TIRES	14	14
MISC (CALC.)	14	14
TOTAL	14	14

(IF THE DESIGN LOAD CONDITIONS ARE ALL 0, THE DESIGN LOADS WERE GIVEN IN THE INPUT DATA)

OUTPUT TABLES AND CONTROLS

AIR INDUCTION SYSTEM STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for air induction system module
61	(7,0)	AIS	AIMN	AIS input data
62	(7,0)	AIS	SPAL	Speed altitude and atmospheric data
63	(7,0)	AIS	MATLP2	Duct material data
63	(7,0)	AIS	MATLP2	Ramp material data*
63	(7,0)	AIS	MATLP2	Nacelle material data
64	(7,0)	AIS	MCNTL1	TMS array, material properties at speed profile points
65	(7,0)	AIS	DSGNP	Speed profile design constants*
66	(7,0)	AIS	PRECRT	Ramp design conditions*
67	(7,0)	AIS	RAMPS	Ramp built-in parameters, input data, reaction forces and ramp weights*
68	(7,0)	AIS	FRMELD	Duct frame data and unit redundants
69	(7,0)	AIS	DUCTS	Duct frame section properties and internal loads
69	(7,0)	AIS	DUCTS	Duct geometry and weight summary

OUTPUT TABLES AND CONTROLS

AIR INDUCTION SYSTEM STRUCTURAL WEIGHT ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
70	(7,0)	AIS	NACELE	Nacelle geometry and weight summary
-	(7,0)	AIS	SUMARY	AIS, engine section or nacelle group weight and CG summary, always printed
-	(7,0)	AIS	SUMARY	AIS weight summary, always printed
-	(7,0)	AIS	SUMARY	Engine section and nacelle group weight summary, always printed

*Not C-141A sample case output (information only).

**** OLAY00 - IP(40) ****

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE.

****** AIR INDUCTION SYSTEM (OVERLAY 7) ******

AUGUST 1973

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT

C 141 TEST CASE

AIR INDUCTION SYSTEM DATA

NUMBER OF NACELLES	4.0
BYPASS RATIO	1.20
INLET TYPE (1.=FIXED DUCT 2.=FIXED SPIKE) (3.=HORIZ. RAMP 4.=VENT. RAMP) (5.=TRANS. SPIKE 6.=EAPND. SPIKE)	2.0
CAPTURE AREA PER INLET	1648.00
NUMBER OF INLETS PER AIR VEHICLE	4.0
X DISTANCE OF THROAT FROM L.E. OF COWL ON LIP	6.0000
NUMBER OF ENGINES	4.0
THRUST PER ENGINE	21000.00
WEIGHT PER ENGINE	4690.000
LENGTH OF ENGINE	147.000
DIAMETER OF ENGINE	45.000
ENGINE C.G. DISTANCE AFT OF FACE	88.200
X AT COWL ON LIP, SFT 1	648.000
Y AT ENGINE FACE, SFT 1	285.000
Z AT ENGINE FACE, SFT 1	192.710
X AT COWL ON LIP, SFT 2	737.000
Y AT ENGINE FACE, SFT 2	460.000
Z AT ENGINE FACE, SFT 2	185.520
AVERAGE SWEEP OF PYLON	70.00
MOUNTING TYPE (0.=VENT, 1.=HORIZ) LH-PYLON	0.0
AVERAGE CHORD OF INBOARD PYLON	171.00
SPAN OF INBOARD PYLON	40.00
AVERAGE CHORD OF OUTBOARD PYLON	171.00
SPAN OF OUTBOARD PYLON	40.00
PYLON THICKNESS TO CHORD RATIO	.100
AUXILIARY INLET AREA PER NACELLE ON AIR VEHICLE	0.000
DUCT BYPASS AREA PER NACELLE ON AIR VEHICLE	0.000
AREA OF MISCELLANEOUS DOORS	0.000
SMOUD INDICATOR (0.=NO, 1.=YES=CALC, GT 1.=SMOUD AREA)	0.000
MATERIAL NUMBER FOR DUCTS	4.0
MATERIAL NUMBER FOR RAMPS	4.0
MATERIAL NUMBER FOR NACELLES	4.0
PITCH CHOICE (1.=MIN, 2.=ADD SPD, PRF, ... 4.=MAX.)	4.0
PITCHING ACCELERATION	1.000
VERTICAL LOAD FACTOR	2.50
K FACTORS...DUCTS= 1.00 FRAMES= 1.00 COVERS= 1.00 LONGRUNS= 1.00	

*** SPEED ALTITUDE PROFILE TABLES ***

STANDARD ATMOSPHERE

ALTITUDE FEET	TEMPERATURE DEG RANKINE	DENSITY PCF	PRESSURE PSF	G FT/SFC SQ	SPEED OF SOUND FT/SEC
0.0	518.670	.0765495	2116.22	32.174	1115.90
5000.0	500.839	.0659604	1760.79	32.149	1096.29
10000.0	483.008	.0565301	1455.33	32.144	1076.35
15000.0	465.178	.0481677	1194.27	32.128	1056.04
20000.0	447.347	.0407862	972.49	32.113	1035.36
21250.0	442.889	.0390844	922.63	32.109	1030.13
22500.0	438.431	.0374374	874.85	32.106	1024.87
36250.0	389.970	.0225659	469.04	32.044	965.94
50000.0	389.970	.0116530	242.21	32.022	965.31

PROFILE TABLE

ALT. FEET	V(M) MN	U(M) PSF	M2	PI2/PT0 MN	RAM T DEG R	PT2 PSI	V(L) MN	Q(L) PSF	M2	PI2/PT0 MN	RAM T DEG R	PT2 PSI	P2 PSI
0.0	.57	488.07	.50	1.0000	552.45	18.37	.60	533.29	.50	1.0000	556.01	18.74	15.80
5000.0	.62	479.57	.50	1.0000	539.81	15.89	.65	520.53	.50	1.0000	543.14	16.24	13.69
10000.0	.68	471.06	.50	1.0000	527.68	13.77	.71	507.77	.50	1.0000	531.16	14.09	11.88
15000.0	.74	461.06	.50	1.0000	514.49	11.96	.77	494.05	.50	1.0000	520.16	12.26	10.77
20000.0	.81	451.06	.50	1.0000	506.63	10.44	.84	480.33	.50	1.0000	510.48	10.72	9.04
21250.0	.83	446.76	.50	1.0000	504.16	10.08	.85	471.93	.50	1.0000	507.61	10.33	8.71
22500.0	.85	442.46	.50	1.0000	501.78	9.74	.87	463.52	.50	1.0000	504.80	9.95	8.39
36250.0	.85	237.22	.50	1.0000	446.32	5.22	.87	248.51	.50	1.0000	449.00	5.33	4.50
50000.0	.85	122.50	.50	1.0000	446.32	2.70	.87	128.33	.50	1.0000	449.00	2.75	2.32

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 92.0 ASSUMED TEMP. = 80.0

♦♦ MATLP2 - IP(43) ♦

---RAMP MATERIAL DATA. MATL NO. 13-00-

6AL-4V TI-A SHT/PLATE TO .250 IN. REF-TF1.90/1.10 2-22-69
120 HRS AT 290 DEG. MIL-MDBK-5 B DATA

TEMP.= 87.81 DENSITY= .1600 MU= .3304

COMPRESSION	A	R	E	E (RT)	G (RT)
TENSION					
	•16164397E-12	•16943896E-03	16361836.0	16400220.0	6165500.0
	•16164397E-12	•16943896E-03	16361836.0		

COMPRESSION	EPS (P)	EPS (Y)	F (P)	F (2)	F (3)	F (4)	F (Y)
TENSION							
	•007209	•0103A3	117958.8	125997.9	131121.5	134634.5	137154.0
	•007209	•010383	117958.8	125997.9	131121.5	134634.5	137154.0

FTU= 138154.0 FSU= 80577.0 FBRU= 250000.0

TM						
1	•8780881E+02	•33039044E+00	•16164397E-12	•16943896E-03	•16361836E+08	
6	•13715404E+06	•16164397E-12	•16943896E-03	•16361836E+08	•13715404E+06	
11	•16000000E+00	•13815404E+06	•11795882E+06	•14400220E+08	•61655000E+07	
16	•80577019E+05	•25000000E+06	•17828665E+00	•70000000E+00	•20924962E+00	
21	0.	0.	0.	0.	0.	
26	0.	0.	0.	0.	0.	

[illegible]

POINT 1

DUCT MATERIAL DATA. MATL NO. 4

7/5-10 AL CLAU SHEET 0.040 TO 0.062 IN. MIL-MDBK-4 R DATA EST.
REF. TABLE 3-2.7.0(C) PAGE 33A R-09-72

TEMP. = 00.00 DENSITY = .1010 MU = .3305

	A	H	E	E(RT)	G(KT)
COMPRESSION	.21026216E-10	.28262543E-03	10500010.5	10700000.0	4022560.0
TENSION	.21026216E-10	.28262543E-03	10500010.5		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.003R10	.00H190	40000.0	51200.0	59000.0	62900.0	65000.0
TENSION	.003R10	.00H190	40000.0	51200.0	59000.0	2900.0	65000.0

FLUE 73000.0 FSCU = 44000.0 FBRU = 139000.0

TM							
1	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08		
6	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05		
11	.10100000E+00	.75000000E+05	.40000000E+05	.10700000E+08	.40225600E+07		
16	.44000000E+05	.15900000E+06	.22500000E+00	.76000000E+00	.50000000E+00		
21	0.	0.	0.	0.	0.		
26	0.	0.	0.	0.	0.		

TMU						
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 92.8 ASSUMED TEMP. = 80.0

POINT 1

NACELLE MATERIAL DATA. MATL NO. 4

70/5-16 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(C) PAGE 336 B-09-72

TEMP. = 40.00 DENSITY = .1010 MU = .3305

	A	H	E	E(RT)	G(RT)
COMPRESSION	.21026216E-10	.28262543E-03	10500010.5	10700000.0	4022560.0
TENSION	.21026216E-10	.28262543E-03	10500010.5		
	EPS(P)	EPS(Y)	F(P)	F(3)	F(4)
COMPRESSION	.003810	.004190	400 0.0	59000.0	62900.0
TENSION	.003810	.004190	40000.0	59000.0	62900.0
					F(Y)
					65000.0
					65000.0

FIU = 73000.0 FSU = 44000.0 FHRU = 134000.0

TM					
1	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
6	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TMD					
10	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 96.0 ASSUMED TEMP. = 80.0

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 96.0 ASSUMED TEMP. = 80.0

IMS REGION PROFILE POINT = 1

MCNTL1 - IP(64) *

1	.8.000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
6	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.1.100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.4.000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	.8.000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
66	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
71	.1.100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
76	.4.000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	.8.000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
96	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
101	.1.100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
106	.4.000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	.8.000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
156	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
161	.1.100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
166	.4.000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.

*** MAIL TEMPERATURE ERROR ***

MAIL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
 RECD. TEMP. = R3.1 ASSUMED TEMP. = R0.0

*** MAIL TEMPERATURE ERROR ***

SPEED PROFILE DESIGN CONSTANTS
 BYPASS RATIO = 1.20 IVC = 2

ALT	VM	TEMP (M)	STATIC (M) PRES. RATIO	FACE	TEMP (M)
0.0	.57	552.448	.7713	1.5061	10000
5000.0	.62	539.413	.7688	1.5761	105147
10000.0	.68	527.677	.7660	1.5863	105274
15000.0	.74	516.468	.7629	1.5966	105362
20000.0	.81	504.623	.7593	1.6068	105414
21250.0	.83	504.163	.7586	1.6068	105421
22500.0	.85	501.785	.7575	1.6068	105424
36250.0	.85	446.321	.7575	1.6068	105424
50000.0	.85	446.321	.7575	1.6068	105424

ALT	VL	TEMP (L)	STATIC (L) PRES. RATIO	FACE	TEMP (L)
0.0	.60	546.014	.7700	1.5010	10000
5000.0	.65	543.142	.7675	1.5724	105144
10000.0	.71	531.158	.7647	1.5834	105227
15000.0	.77	520.163	.7614	1.5935	105274
20000.0	.84	510.474	.7580	1.6017	105362
21250.0	.85	507.615	.7573	1.6014	105374
22500.0	.87	504.001	.7565	1.6004	105384
36250.0	.87	449.004	.7565	1.6035	105734
50000.0	.87	449.004	.7565	1.6035	105734

ALT	THRUST-MPSIA	PRES (M)	THRUST-MPSIA	THRUST-MPSIA	THRUST-MPSIA	THRUST-MPSIA
0.0	27.905	24.736	24.736	24.736	24.736	24.736
5000.0	24.277	25.050	25.050	25.050	25.050	25.050
10000.0	21.131	21.457	21.457	21.457	21.457	21.457
15000.0	14.410	19.094	19.094	19.094	19.094	19.094
20000.0	16.093	16.754	16.754	16.754	16.754	16.754
21250.0	15.551	15.204	15.204	15.204	15.204	15.204
22500.0	15.029	15.576	15.576	15.576	15.576	15.576
36250.0	14.237	14.542	14.542	14.542	14.542	14.542
50000.0	4.254	4.437	4.437	4.437	4.437	4.437

*** RAMP DESIGN CONDITIONS ***

** PRECRT - IP (46) *

POINT	7
ALTITUDE	60000.00
SPEED	3.10
TEMPERATURE - F	681.91
PRESSURE - PSIA	40.06
LIMIT TO ULT. FACTOR	1.20
COMPRESSION YIELD	83947.03
ULTIMATE SHEAR STRESS	56133.08
MATERIAL DENSITY	.160

BUILT-IN PARAMETERS

** RAMPS - IP (47) *

21	CL	.900
22	PERCENT OF COMPRESSION YIELD	.500
23	PERCENT OF SHEAR ULTIMATE	.500
24	XW	.200
25	CT	.900
26	DENSITY OF CORE (PSF)	4.400
27	DENSITY OF ADHESIVE (PSF)	.100

** 3 RAMP SYSTEM **

45	INDEX RAMP 1 LONGITUDINAL	1.000
46	INDEX RAMP 1 TRANSVERSE	1.000
47	INDEX RAMP 1 MINIMUM GAGE	1.000
48	INDEX RAMP 2 LONGITUDINAL	1.000
49	INDEX RAMP 2 TRANSVERSE	1.000
50	INDEX RAMP 2 MINIMUM GAGE	1.000
51	INDEX RAMP 3 LONGITUDINAL	1.000
52	INDEX RAMP 3 FWD HINGE BEAM	1.000
53	INDEX RAMP 3 ACTUATOR BEAM	1.000
54	INDEX RAMP 3 AFT HINGE BEAM	1.000
55	INDEX RAMP 3 MINIMUM GAGE	1.000
56	PERCENT HAMMERSHOCK RAMP 1	.200
57	PERCENT HAMMERSHOCK RAMP 2	.500
58	PERCENT HAMMERSHOCK RAMP 3	.400
59	K31	.900
60	K32	.200
61	K33	.800
62	H31	.100
63	H32	.100
64	H33	.070
65	HT3	.100
66	HTA3	.150
67	ANGLE RAMP 2 - RAMP 3	30.000

•• MINIMUM GAGES ••

•• RAMPS - IP (A7) •

99	ALUMINUM	TC	.040
100	ALUMINUM	TW	.020
101	ALUMINUM	TS	.015
102	ALUMINUM	TBARF	.040
103	ALUMINUM	TBARH	.010
104	TITANIUM	TC	.025
105	TITANIUM	TW	.015
106	TITANIUM	TS	.010
107	TITANIUM	TBARF	.025
108	TITANIUM	TBARH	.010
109	STEEL	TC	.020
110	STEEL	TW	.010
111	STEEL	TS	.010
112	STEEL	TBARF	.020
113	STEEL	TBARH	.010

INPUT DATA

NUMBER OF RAMPS	3.00
CONST IND (0=STND,1=HCOMB)	1.00
HAMMERSHOCK PRESSURE (PSI)	40.06
LENGTH OF RAMP 1 (IN)	128.00
LENGTH OF RAMP 2 (IN)	120.00
LENGTH OF RAMP 3 (IN)	200.00
LENGTH OF RAMP 4 (IN)	0.00
WIDTH OF RAMP 1 (IN)	70.00
WIDTH OF RAMP 2 (IN)	70.00
WIDTH OF RAMP 3 (IN)	70.00
WIDTH OF RAMP 4 (IN)	0.00
FCY (PSI)	83947.03
FSU (PSI)	56133.08
DENSITY OF MATERIAL (LB/CU IN)	.16
MATERIAL (1=AL,2=TI,3=ST)	2.00
LIMIT TO ULTIMATE FACTOR	1.20

CHANGES TO BUILT-IN PARAMETERS

26	DENSITY OF CORE (PSF)	5.200
27	DENSITY OF ADHESIVE (PSF)	.220
104	TITANIUM TC	.100
106	TITANIUM TS	.015

REACTION FORCES (LBS)

•• RAMPS - IP (A7) •

RAMP 1 ACTUATOR	133352.
RAMP 3 ACTUATOR	241630.
RAMP 3 FWD HINGE	97138.
RAMP 3 AFT HINGE	59840.

RAMP WEIGHTS (LBS)

RAMP 1 - LONGITUDINAL	416.29
RAMP 1 - TRANSVERSE	15.67
RAMP 2 - LONGITUDINAL	425.20
RAMP 2 - TRANSVERSE	15.60
RAMP 3 - LONGITUDINAL	758.69
RAMP 3 - FORWARD HINGE	20.13
RAMP 3 - ACTUATOR	43.89
RAMP 3 - AFT HINGE	12.40
TOTAL	1707.96

*** FRAMELO - IP(68) ***

*** DUCT FRAME DATA ***

SECTION 1 UNIT HEADJUDANTS HWJ = -599.426 HO = 23.500 VO = .000
 DUCT PERIMETER = 147.092 KING PERIMETER = 159.606

CUT/SEG	Y	Z	YM	YH	DLS	YP	ZP	YPB	ZPB	DLSB
1	0.000	23.500	3.633	22.928	7.355	0.000	25.500	3.941	24.879	7.979
2	7.265	22.356	10.542	20.688	7.355	7.882	24.259	11.438	22.448	7.981
3	13.820	19.020	16.420	16.420	7.355	14.995	20.638	17.817	17.817	7.981
4	19.020	13.820	20.688	10.542	7.355	20.638	14.995	22.448	11.438	7.981
5	22.356	7.265	22.928	3.633	7.355	24.259	7.882	24.879	3.941	7.979
6	23.500	0.000	22.928	-3.633	7.355	25.500	0.000	24.879	-3.941	7.979
7	22.356	-7.265	20.688	-10.542	7.355	24.259	-7.882	22.448	-11.438	7.981
8	19.020	-13.820	16.420	-16.420	7.355	20.638	-14.995	17.817	-17.817	7.981
9	13.820	-19.020	10.542	-20.688	7.355	14.995	-20.638	11.438	-22.448	7.981
10	7.265	-22.356	3.633	-22.928	7.355	7.882	-24.259	3.941	-24.879	7.979
11	0.000	-23.500	-3.633	-22.928	7.355	0.000	-25.500	-3.941	-24.879	7.979
12	-7.265	-22.356	-10.542	-20.688	7.355	-7.882	-24.259	-11.438	-22.448	7.981
13	-13.820	-19.020	-16.420	-16.420	7.355	-14.995	-20.638	-17.817	-17.817	7.981
14	-19.020	-13.820	-20.688	-10.542	7.355	-20.638	-14.995	-22.448	-11.438	7.981
15	-22.356	-7.265	-22.928	-3.633	7.355	-24.259	-7.882	-24.879	-3.941	7.979
16	-23.500	-0.000	-22.928	3.633	7.355	-25.500	0.000	-24.879	3.941	7.979
17	-22.356	7.265	-20.688	10.542	7.355	-24.259	7.882	-2.448	11.438	7.981
18	-19.020	13.820	-16.420	16.420	7.355	-20.638	14.995	-7.817	17.817	7.981
19	-13.820	19.020	-10.542	20.688	7.355	-14.995	20.638	-11.438	22.448	7.981
20	-7.265	22.356	-3.633	22.928	7.355	-7.882	24.259	-3.941	24.879	7.979

♦♦ DUCTS - IP(69) ♦

DUCT FRAME

SECTION 1

K	TWM	TCC	H2	BFN	VV	AA
1	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	.2183745E-01	.2321395E+02
2	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	.1150704E-01	.2321924E+02
3	.320000E-01	.500000E-01	.200000E+01	.8994612F-01	-.300773E-09	.2322107E+02
4	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	-.1150704E-01	.2321924E+02
5	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	-.2183745E-01	.2321395E+02
6	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	.2183745E-01	.2321395E+02
7	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	.1150704E-01	.2321924E+02
8	.320000E-01	.500000E-01	.200000E+01	.8994612E-01	.4718963E-09	.2322107E+02
9	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	-.1150704E-01	.2321924E+02
10	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	-.2183745E-01	.2321395E+02
11	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	.2183745E-01	.2321395E+02
12	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	.1150704E-01	.2321924E+02
13	.320000E-01	.500000E-01	.200000E+01	.8994612E-01	-.325216E-09	.2322107E+02
14	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	-.1150704E-01	.2321924E+02
15	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	-.2183745E-01	.2321395E+02
16	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	.2183745E-01	.2321395E+02
17	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	.1150704E-01	.2321924E+02
18	.320000E-01	.500000E-01	.200000E+01	.8994612F-01	.4316689E-09	.2322107E+02
19	.320000E-01	.500000E-01	.200000E+01	.4402610F-01	-.1150704E-01	.2321924E+02
20	.320000E-01	.500000E-01	.200000E+01	-.8902379F-01	-.2183745E-01	.2321395E+02

*** DUCT GEOMETRY - SECTION DATA ***
 LIP TYPE = 0 SHAPE CONF = 1

CUT	STA.	DEPTH	WIDTH	PER.	DO	HO	HO	BU	BL	BS
1	0.00	47.00	47.00	147.70	.03	23.47	.03	36.92	36.92	36.92
2	6.00	50.00	50.00	157.10	.01	24.99	.01	39.27	39.27	39.27
3	12.00	52.50	52.50	165.00	.04	26.21	.04	41.25	41.25	41.25

CUT	STA.	FR.SP.	FR.WT.	LAND	BASIC
1	0.00	11.00	6.48	.0975	.0390
2	6.00	11.00	6.86	.0975	.0390
3	12.00	10.50	7.14	.0983	.0393

SEG	LENGTH	AREA	WT COVER
1	6.00	914.40	4.58
2	6.00	966.30	4.89
TOTAL	12.00	1880.70	9.48

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 1 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 2 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 3 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 4 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 5 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 6 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 7 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 8 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGED IN AIR INDUCTION SYSTEM

SECTION 9 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** NACELE - IP(70) **
 C 141 TEST CASE

*** NACELLE GEOMETRY - SECTION DATA ***

LIP TYPE = 0 SHAPE CODE = 2

CUT	STA.	DEPTH	WIDTH	PER.	DO	RO	WO	BU	BL	BS	RCU	RCS
1	0.0	48.0	48.0	150.8	0.0	24.0	0.0	37.7	37.7	37.7	24.0	24.0
2	10.0	63.0	63.0	197.9	0.0	31.5	0.0	49.5	49.5	49.5	31.5	31.5
3	20.0	66.0	66.0	207.3	0.0	33.0	0.0	51.8	51.8	51.8	33.0	33.0
4	40.0	66.0	66.0	207.3	0.0	33.0	0.0	51.8	51.8	51.8	33.0	33.0
5	60.0	66.0	66.0	207.3	0.0	33.0	0.0	51.8	51.8	51.8	33.0	33.0
6	120.0	65.5	65.5	204.8	0.0	32.7	0.0	51.4	51.4	51.4	32.7	32.7
7	140.0	65.0	65.0	204.2	0.0	32.5	0.0	51.1	51.1	51.1	32.5	32.5
8	160.0	63.5	63.5	199.5	0.0	31.7	0.0	49.4	49.4	49.4	31.7	31.7
9	140.0	60.0	60.0	184.5	0.0	30.0	0.0	47.1	47.1	47.1	30.0	30.0
10	199.2	54.0	54.0	149.6	0.0	27.0	0.0	42.4	42.4	42.4	27.0	27.0

SEG	LENGTH	AREA	WT COVER	FR.WT.	COVER	WT FR	WT LONGERON
1	10.00	1743.58	5.64	11.00	6.48	6.26	0.00
2	10.00	2026.33	6.55	10.67	7.07	7.80	0.00
3	20.00	4146.90	13.40	7.00	6.28	17.95	0.00
4	20.00	4146.90	13.40	7.00	6.28	17.95	0.00
5	60.00	12393.58	40.06	7.00	6.23	53.65	0.00
6	20.00	4049.78	13.25	7.00	6.19	17.75	0.00
7	20.00	4036.95	13.05	7.00	6.04	17.47	0.00
8	20.00	3879.87	12.54	7.00	5.71	16.79	0.00
9	19.22	3441.38	11.12	7.00	5.14	14.90	0.00
TOTAL	149.22	34915.27	129.01			170.52	0.00

	INBOARD	OUTBOARD	TOTAL
1. <u>INBOARD</u>	100	0	100
2. <u>OUTBOARD</u>	0	100	100
3. <u>TOTAL</u>	100	100	200

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** SUMMARY **
C 141 TEST CASE ---NO. 1---

C 141 TEST CASE REP NEW KING PROGRAM CHECKOUT AUGUST 1972 ** SUMMARY **
C 141 TEST CASE ---NO. 1---

	WT.	C.G.	WT.	C.G.
AIR INDUCTION SYSTEM			411.50	679.91
INLET WEDGE	0.0	2.00		
AIR DUCTING	37.90	660.00		
INTAKE DOORS & I.P. MECHANISM	0.0	0.0		
BYPASS DOORS & I.P. MECHANISM	0.0	0.0		
VARIABLE GEOMETRY STRUCTURE	0.0	0.0		
HALF ROUND FIXED SPIKE	573.40	679.90		
FULL ROUND TRANSLATING SPIKE	0.0	0.0		
FULL TRANS. & EXPND. SPIKE	0.0	0.0		

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OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for wing and empennage
3	(8,0)	Wing	CCNTL	WD array, D array before data transfer, D array after data transfer and SPAL array
4	(8,0)	Wing	GEOMC	YC, YTC, and TAF arrays*
5	(8,0)	Wing	ABOXC, DMAX	Geometry data for synthesis cuts from YC, YTC, and TAF arrays
5	(8,0)	Wing	DMAX	Geometry summary from YTC and TI arrays
6	(8,0)	Wing	PRTG	Planform geometry parameters, equations and coordinates, blended geometry control points
6	(8,0)	Wing	PRTG	Structural system geometry data
7	(8,0)	Wing	PPTG	TXY array - general geometry data
7	(8,0)	Wing	GEOMW	Flutter geometry data

OUTPUT ABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
8	(14,0)	Wing	CTOT1 (GCNTL)	TT(1), TT(2), and YC arrays*
9	(14,0)	Wing	GCNTL	TG and TGA arrays*
8	(14,0)	Wing	CTOT1 (LEWT)	TT(1), TT(2), and YC arrays-LE data*
11	(14,0)	Wing	LEWT	TGR, TST, CCI and YC arrays-LE device data same format as trail- ing edge data in sub- routine TEWTI*
11	(14,0)	Wing	LEWT	CCW and CCL arrays-LE weight and distribu- tion summary
8	(14,0)	Wing	CTOT1 (TEWT)	TT(1), TT(2), and YC arrays-TE data*
8	(14,0)	Wing	CTOT1 (TEDEV)	TT(1), TT(2), and YC arrays-TE data*
8	(14,0)	Wing	CTOT1 (TEWTI)	TT(1), TT(2), and YC arrays-TE data*
11	(14,0)	Wing	TEWTI	TGR, TST, and CCI arrays-TE device data summary
11	(14,0)	Wing	TEWT	CCW, CCT, and TE arrays-TE weight and distribution summary
10	(14,0)	Wing	LETEI	TCS, CLEI, and TWG arrays-LE inertia data summary*

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
10	(14,0)	Wing	LETEI	TCS, CTEI, and TWG arrays-LE/TE inertia data summary*
12	(14,0)	Wing	WLETE	LE and TE weights and load distribution summaries
12	(14,0)	Wing	WLETE	TE device component summary
15	(15,0)	Wing	CTOT2 (MISCNT)	TT(1), TT(2), and YC arrays-Misc contents data*
13	(15,0)	Wing	MISCNT	CCI and TST arrays-Tip data*
13	(15,0)	Wing	MISCNT	CCI and TGR arrays-Conc* item data
13	(15,0)	Wing	PRTM	CCI array*
13	(15,0)	Wing	PRTM	TST, TGR, and TCS arrays-distributed line items*
14	(15,0)	Wing	PRTM	TCS and CCI arrays-final output data*
16	(15,0)	Wing	CDL	TGR and TCS arrays-CDL data*
14	(15,0)	Wing	MISCNT	CMII and TVWT arrays-final output data
15	(15,0)	Wing	CTOT2 (FDIS)	TT(1), TT(2), and YC array

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
16	(15,0)	Wing	TBFWT1	TCS and CCI arrays-fuel/box mass distribution integration data
17	(15,0)	Wing	FDIS	CCI and TST arrays-fuel cell data
17	(15,0)	Wing	FDIS	CCI, TCS, and TST arrays-box mass distribution data
17	(15,0)	Wing	FDIS	TWG and TVWT arrays-fuel cell data
18	(15,0)	Wing	FDIS	Fuel distribution summary and total fuel plus fuel system 1-G loads
19	(16,0)	Wing	MTLPW	Torque box material data
19	(16,0)	Wing	MTLPW	Pivot material data same format as torque box material
20	(16,0)	Wing	ALOAD	Limit design airload shears, bending moments, torsional moments, and load scaling ratios
22	(16,0)	Wing	GJCAL	TVS array-flutter requirement analysis design GJ data
21	(16,0)	Wing	ABDW	Initial deadweight distribution of wing and contents

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
24	(16,0)	Wing	VLOAD1	Initial design load and required GJ
23	(16,0)	Wing	WDDATA	T and CD arrays-design data initial values
20	(18,0)	Wing	ACLOAD	Basic limit airload data & ACL array for advance composite analysis
19	(18,0)	Wing	TEMPC	Advance composite torque box material data
24	(9,0), (18,0)	Wing	DWYBA	Deadweight and Y-bar adjustment data, NODW > 1
24	(9,0)	Wing	DEADW	Deadweight adjustment results, NODW > 1
24	(9,0)	Wing	VLOAD	Design loads and required GJ, NODW > 1
24	(18,0)	Wing	AVLOAD	Advance composite design loads and required GJ, NODW > 1
24	(18,0)	Wing	AVLOAD	Summary of design loads for up to 20 conditions
31,32	(18,0)	Wing	ASTIFF	CD array
31,32	(18,0)	Wing	ACNSTR	DDUC, DDLIC, DDIS, DDFS, DDRS, DDSTR arrays

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
27	(9,0)	Wing	PRTA (TBOPT)	Summary-section synthesis data for GW No. 2 and NODW > 1
27	(9,0)	Wing	PRTA (TBOPT)	Panel weight and design load summary, GW No. 2 and NODW > 1
27	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite summary-section synthesis data for GW No. 2 and NODW > 1
27	(18,0)	Wing	ACP. TA (ATBOPT)	Stiffness summary for flutter and flex load analysis
27	(18,0)	Wing	ACPRTA (ATBOPT)	Panel weights, loads and design Y-bar summary, GW No. 2 and NODW > 1
25	(9,0) (18,0)	Wing	DWYBA	Deadweight and Y-bar adjustment data, NODW = 1
25	(9,0) (18,0)	Wing	DEADW	Deadweight adjustment results, NODW = 1
25	(9,0)	Wing	VLOAD	Design loads and required GJ, NODW = 1
25	(18,0)	Wing	AVLOAD	Advanced composite design loads and required GJ, NODW = 1
25	(18,0)	Wing	AVLOAD	Summary of design loads for up to 20 conditions

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
31	(9,0)	Wing	PRTB (CNSTR)	Detail section synthesis data, DGW No. 2
31	(9,0)	Wing	PRTC (CNSTR)	Detail section weight data, DGW No. 2
31	(18,0)	Wing	PRTB (ACNSTR)	Advance composite detail section synthesis data, DGW No. 2
31	(18,0)	Wing	PRTC (ACNSTR)	Advance composite detail section weight data, DGW No. 2
26	(9,0), (18,0)	Wing	DLPVT	TW array
29	(9,0)	Wing	PRTH (TBOPT)	Pivot and center section analysis data, DGW No. 2, NODW = 1
29	(18,0)	Wing	PRTH (ATBOPT)	Advance composite pivot and center-section analysis data, DGW No. 2, NODW = 1
26	(9,0), (18,0)	Wing	PIVOT	Pivot data
29	(9,0)	Wing	PRTA (TBOPT)	Summary-section synthesis data for GW No. 2 and NODW = 1
29	(9,0)	Wing	PRTA (TBOPT)	Panel weight and design load summary, GW No. 2 and NODW = 1
29	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite summary-section synthesis data for GW No. 2 and NODW = 1

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
29	(18,0)	Wing	ACPRTA (ATBOPT)	Stiffness summary for flutter and flex load analysis
29	(18,0)	Wing	ACPRTA (ATBOPT)	Panel weights, loads and design Y-bar summary, GW No. 2 and NODW = 1
29	(9,0)	Wing	PRTA (TBOPT)	Section geometry summary
29	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite section geometry summary
28	(9,0)	Wing	PRTA (TBOPT)	Same output data that is obtained with IP (27) except for GW No. 1 and 3
28	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite - same output data that is obtained with IP (27) except for GW No. 1 and 3
30	(9,0)	Wing	PRTA (TBOPT)	Same output data that is obtained with IP (29) except for GW No. 1 and 3
30	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite - same output data that is obtained with IP (29) except for GW No. 1 and 3

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
32	(9,0)	Wing	PRTB (CNS1R)	Same output data that is obtained with IP (31) except for GW's 1 and 3
32	(18,0)	Wing	PRTB (ACNSTR)	Advance composite - same output data that is obtained with IP (31) except for GW No. 1 and 3
33	(10,0)	Wing	PRTBK (STRG)	Detail break print
33	(10,0)	Wing	PRTRK (TSCH)	Detail break print
34	(17,0)	Wing	TBFWI	TCS and CCI arrays - fuel/box structure integration data
33	(17,0)	Wing	WODATA	WCG and CTBW arrays
-	(17,0)	Wing	PRTD	Total Wing detail weight summary, always printed
37	(17,0)	Wing	PRTD	Torque box detail weight summary
37	(17,0)	Wing	PRTD	Torque box less pivot structure weight summary
37	(17,0)	Wing	PRTD	Wing coefficients

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
38	(17,0)	Wing	WODATA	CTBI array - torque box weight distribution summary
38	(17,0)	Wing	WODATA	CLEI array - LE weight distribution summary
38	(17,0)	Wing	WODATA	CTEI array - TE weight distribution summary
38	(17,0)	Wing	WODATA	OMII array - misc structure and contents weight distribution summary
38	(17,0)	Wing	WODATA	CFL1I array - fuel cell 1 weight distribution summary
38	(17,0)	Wing	WODATA	CFL2I array - fuel cell 2 weight distribution summary
38	(17,0)	Wing	WODATA	CCDLI array - external conc mass weight distribution summary
38	(17,0)	Wing	WODATA	CIOY array - inertia data for flex loads, aero system
36	(17,0)	Wing	WODATA	Surface inertia summary
38	(17,0)	Wing	WODATA	Panel inertia summary for flex loads, aero system

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
-	(17,0)	Wing	WFLDD	Flexible loads general data summary, printed if D(271) = 1.2
35	(17,0)	Wing	CTOT (WFLDD)	TT(1), TT(2), and YC array
-	(17,0)	Wing	WFLDD	Flexible loads inertia data printed if D(271) = 1,2
35	(17,0)	Wing	CTOT (WVDD)	TT(1), TT(2), and YC array
34	(17,0)	Wing	WVDD	TCS and CCDLI arrays - flutter optimization final data
-	(17,0)	Wing	PINTO	Flutter optimization data printed if D(271) = 1,3

*Note C-141A sample case output (information only).

•• OLAY00 - (P140) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

•••• WING -- METAL DESIGN - (OVERLAYS R, 14, 15, 16, 9, 10 AND 17) ••••

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0					
80	0.	.31610000E+06	0.	.31610000E+06	0.
85	.25000000E+01	.10000000E+01	.53000000E+03	.10000000E+01	.11640000E+06
90	0.	.11640000E+06	0.	0.	0.
95	0.	0.	0.	0.	0.
100	0.	0.	0.	0.	0.
105	0.	0.	0.	0.	0.
110	.10000000E+01	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00
115	.10000000E+01	.60000000E+00	.94500000E+00	0.	0.
120	0.	0.	.14000000E+01	0.	.42000000E+00
125	.12000000E+00	.63500000E+00	.37750000E+00	0.	.10000000E+01
130	.49369022E-01	-.14187151E+00	-.12349674E+00	.47136354E+00	.40410000E+00
135	.12000000E+00	.63500000E+00	.37750000E+00	.25000000E+00	.45000000E+03
140	0.	0.	.10000000E+01	.20000000E+01	.50000000E+01
145	0.	0.	0.	0.	0.
150	0.	0.	0.	.20000000E+02	0.
155	.10000000E+01	.15000000E+01	.54000000E+01	0.	0.
160	0.	0.	0.	0.	0.
165	0.	0.	0.	0.	0.
170	0.	0.	0.	0.	0.
175	0.	.64876000E+03	0.	0.	0.
180	0.	0.	0.	0.	0.
185	0.	.10000000E+01	0.	0.	.45000000E+00
190	.10000000E+01	.10000000E+01	.94303560E+01	.72445000E+00	.44000000E+01
195	0.	0.	0.	0.	0.
200	0.	0.	0.	0.	0.
205	.10000000E+01	.70000000E+02	.24500000E+03	.37200000E+01	.10000000E+01
210	.34160000E+05	.12000000E+01	0.	.41500000E+03	.44000000E+03
215	.28100000E-01	.10000000E+01	.24310000E+05	.12000000E+01	0.
220	0.	0.	0.	0.	0.
225	0.	0.	0.	0.	0.
230	0.	0.	.40000000E+00	.10000000E+01	.10000000E+01
235	.30025000E+04	.85200000E+01	.41750000E+00	.15540000E+03	0.
240	.30025000E+04	.85200000E+01	.25000000E+02	.14330000E+00	.41750000E+00
245	.61237000E+00	.15540000E+03	0.	0.	0.
250	.10000000E+01	.10000000E+01	.10000000E+01	0.	.10000000E+01
255	0.	0.	.40000000E+00	.60000000E+01	.40000000E+02
260	0.	0.	0.	0.	0.
265	0.	0.	0.	0.	0.
270	0.	.10000000E+01	0.	0.	0.
275	0.	0.	0.	0.	0.
280	0.	0.	0.	0.	0.
285	0.	0.	0.	0.	0.
290	.80000000E+00	0.	.14500000E+00	.30000000E+07	0.
295	.31610000E+06	.23200000E+03	.26000000E+11	.34000000E+11	.42000000E+05
300	.36000000E+03	.93200000E+03	.13000000E+10	.33000000E+11	.82500000E+00
305	0.	0.	.14500000E+00	.30000000E+07	.11500000E+01
310	0.	0.	.10000000E+01	.90000000E+00	.10000000E+01
315	.97500000E+00	.10000000E+02	0.	.10000000E+01	0.
320	0.	0.	0.	0.	0.
325	0.	0.	0.	0.	0.
330	0.	0.	0.	0.	0.
335	0.	0.	0.	0.	0.
340	.30025000E+04	.85200000E+01	.41750000E+00	.15540000E+03	.14330000E+00
345	.61237000E+00	0.	0.	0.	0.
350	0.	0.	0.	0.	0.
355	0.	0.	0.	0.	0.
360	0.	0.	.40000000E+01	.42000000E+00	.40000000E+01
1280	0.	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01
1020	.10000000E+01	.80000000E+03	.70000000E+02	.94000000E+03	.70000000E+00
1025	.65000000E+00	.66000000E+03	.40000000E+00	.25000000E+00	0.
1030	0.	0.	0.	0.	0.
1035	0.	0.	0.	0.	0.
1040	0.	0.	0.	0.	0.
1045	0.	0.	0.	0.	0.
1050	0.	0.	0.	0.	0.
1055	.78080000E+04	.28500000E+03	-.14200000E+00	.83000000E+02	.10000000E+01
1060	0.	0.	0.	.10000000E+03	.70000000E+02
1065	.70000000E+02	.10000000E+01	.70000000E+00	.40000000E+03	-.22200000E+00
1070	.10000000E+02	.10000000E+01	0.	0.	0.
1075	.19600000E+03	.70000000E+02	.70000000E+02	.10000000E+01	0.
1080	0.	0.	0.	0.	0.
1085	0.	0.	0.	0.	0.
1090	0.	0.	0.	0.	0.
1095	0.	0.	0.	0.	0.
1100	0.	0.	0.	0.	.10000000E+01
1105	0.	0.	0.	0.	0.
1110	0.	0.	0.	0.	0.
1115	0.	0.	0.	0.	0.
1120	0.	.10000000E+01	0.	0.	0.
1125	0.	0.	0.	0.	0.
1130	0.	0.	0.	0.	0.
1135	0.	0.	0.	0.	.75000000E+00

CASE 1

C 141 TEST CASE FOR NEW BING PROGRAM CHECKOUT
C 141 TEST CASE

11-0047 1973

00 CC47L - 10171 -

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
4	.40000000E+01	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01
10	.10000000E+02	.11000000E+02	.12000000E+02	.13000000E+02	.14000000E+02
14	.31415926E+01	.17453287E+01	.14085818E+01	.74484816E+01	.40088548E+01
20	.14085818E+01	.33333333E+00	.09090909E+00	.14085818E+01	.10400000E+01
24	.74000000E+00	.35400000E+00	.12500000E+00	.42920000E+00	.74000000E+00
30	.10000000E+02	.10100000E+01	.00000000E+01	.10000000E+02	.10000000E+01
34	.44000000E+01	.45000000E+00	.00400000E+00	.00000000E+00	.10000000E+00
40	.14000000E+01	.50000000E+00	.40000000E+00	.24000000E+00	.74000000E+00
44	.43000000E+00	.17000000E+00	.50000000E+01	.14000000E+02	.30000000E+01
48	.24000000E+00	.00000047E+00	.20000000E+02	.13773300E+01	.74430000E+00
54	.40000000E+00	.15000000E+01	.24000000E+00	.24000000E+00	.74000000E+00
60	.14000000E+01	.15000000E+00	.13333000E+01	.12400000E+01	.10000000E+03
64	.40000000E+02	.25000000E+02	.40000000E+01	.70000000E+00	.10740000E+01
70	.44000000E+00	.10300000E+01	.01100000E+00	.50000000E+01	.40000000E+00
74	.40000000E+01	.20000000E+01	.24000000E+01	.17300000E+02	.40000000E+00
80	.0	.31415926E+01	.0	.31415926E+01	.0
84	.0	.10000000E+01	.0	.10000000E+01	.0
88	.0	.11400000E+01	.0	.10000000E+01	.0
94	.0	.0	.0	.0	.0
100	.0	.0	.0	.0	.0
104	.0	.0	.0	.0	.0
110	.10000000E+01	.10000000E+00	.30000000E+00	.74000000E+00	.0
114	.10000000E+01	.00000000E+00	.00000000E+00	.0	.0
118	.0	.0	.14000000E+01	.0	.0
124	.0	.12000000E+00	.0	.0	.0
128	.0	.04300000E+00	.0	.0	.0
134	.0	.04300000E+00	.0	.0	.0
138	.0	.04300000E+00	.0	.0	.0
144	.0	.0	.0	.0	.0
148	.0	.0	.0	.0	.0
154	.0	.0	.0	.0	.0
160	.0	.0	.0	.0	.0
164	.0	.0	.0	.0	.0
170	.0	.0	.0	.0	.0
174	.0	.0	.0	.0	.0
180	.0	.0	.0	.0	.0
184	.0	.0	.0	.0	.0
190	.0	.0	.0	.0	.0
194	.0	.0	.0	.0	.0
200	.0	.0	.0	.0	.0
204	.0	.0	.0	.0	.0
208	.0	.0	.0	.0	.0
214	.0	.0	.0	.0	.0
218	.0	.0	.0	.0	.0
224	.0	.0	.0	.0	.0
228	.0	.0	.0	.0	.0
234	.0	.0	.0	.0	.0
238	.0	.0	.0	.0	.0
244	.0	.0	.0	.0	.0
248	.0	.0	.0	.0	.0
254	.0	.0	.0	.0	.0
260	.0	.0	.0	.0	.0
264	.0	.0	.0	.0	.0
268	.0	.0	.0	.0	.0
274	.0	.0	.0	.0	.0
278	.0	.0	.0	.0	.0
284	.0	.0	.0	.0	.0
288	.0	.0	.0	.0	.0
294	.0	.0	.0	.0	.0
300	.0	.0	.0	.0	.0
304	.0	.0	.0	.0	.0
308	.0	.0	.0	.0	.0
314	.0	.0	.0	.0	.0
318	.0	.0	.0	.0	.0
324	.0	.0	.0	.0	.0
328	.0	.0	.0	.0	.0
334	.0	.0	.0	.0	.0
338	.0	.0	.0	.0	.0
344	.0	.0	.0	.0	.0
348	.0	.0	.0	.0	.0
354	.0	.0	.0	.0	.0
360	.0	.0	.0	.0	.0
364	.0	.0	.0	.0	.0
368	.0	.0	.0	.0	.0
374	.0	.0	.0	.0	.0
378	.0	.0	.0	.0	.0
384	.0	.0	.0	.0	.0
388	.0	.0	.0	.0	.0
394	.0	.0	.0	.0	.0
400	.0	.0	.0	.0	.0
404	.0	.0	.0	.0	.0
408	.0	.0	.0	.0	.0
414	.0	.0	.0	.0	.0
418	.0	.0	.0	.0	.0
424	.0	.0	.0	.0	.0
428	.0	.0	.0	.0	.0
434	.0	.0	.0	.0	.0
438	.0	.0	.0	.0	.0
444	.0	.0	.0	.0	.0
448	.0	.0	.0	.0	.0
454	.0	.0	.0	.0	.0
460	.0	.0	.0	.0	.0
464	.0	.0	.0	.0	.0
468	.0	.0	.0	.0	.0
474	.0	.0	.0	.0	.0
478	.0	.0	.0	.0	.0
484	.0	.0	.0	.0	.0
488	.0	.0	.0	.0	.0
494	.0	.0	.0	.0	.0
500	.0	.0	.0	.0	.0
504	.0	.0	.0	.0	.0
508	.0	.0	.0	.0	.0
514	.0	.0	.0	.0	.0
518	.0	.0	.0	.0	.0
524	.0	.0	.0	.0	.0
528	.0	.0	.0	.0	.0
534	.0	.0	.0	.0	.0
538	.0	.0	.0	.0	.0
544	.0	.0	.0	.0	.0
548	.0	.0	.0	.0	.0
554	.0	.0	.0	.0	.0
560	.0	.0	.0	.0	.0
564	.0	.0	.0	.0	.0
568	.0	.0	.0	.0	.0
574	.0	.0	.0	.0	.0
578	.0	.0	.0	.0	.0
584	.0	.0	.0	.0	.0
588	.0	.0	.0	.0	.0
594	.0	.0	.0	.0	.0
600	.0	.0	.0	.0	.0
604	.0	.0	.0	.0	.0
608	.0	.0	.0	.0	.0
614	.0	.0	.0	.0	.0
618	.0	.0	.0	.0	.0
624	.0	.0	.0	.0	.0
628	.0	.0	.0	.0	.0
634	.0	.0	.0	.0	.0
638	.0	.0	.0	.0	.0
644	.0	.0	.0	.0	.0
648	.0	.0	.0	.0	.0
654	.0	.0	.0	.0	.0
660	.0	.0	.0	.0	.0
664	.0	.0	.0	.0	.0
668	.0	.0	.0	.0	.0
674	.0	.0	.0	.0	.0
678	.0	.0	.0	.0	.0
684	.0	.0	.0	.0	.0
688	.0	.0	.0	.0	.0
694	.0	.0	.0	.0	.0
700	.0	.0	.0	.0	.0
704	.0	.0	.0	.0	.0
708	.0	.0	.0	.0	.0
714	.0	.0	.0	.0	.0
718	.0	.0	.0	.0	.0
724	.0	.0	.0	.0	.0
728	.0	.0	.0	.0	.0
734	.0	.0	.0	.0	.0
738	.0	.0	.0	.0	.0
744	.0	.0	.0	.0	.0
748	.0	.0	.0	.0	.0
754	.0	.0	.0	.0	.0
760	.0	.0	.0	.0	.0
764	.0	.0	.0	.0	.0
768	.0	.0	.0	.0	.0
774	.0	.0	.0	.0	.0
778	.0	.0	.0	.0	.0
784	.0	.0	.0	.0	.0
788	.0	.0	.0	.0	.0
794	.0	.0	.0	.0	.0
800	.0	.0	.0	.0	.0
804	.0	.0	.0	.0	.0
808	.0	.0	.0	.0	.0
814	.0	.0	.0	.0	.0
818	.0	.0	.0	.0	.0
824	.0	.0	.0	.0	.0
828	.0	.0	.0	.0	.0
834	.0	.0	.0	.0	.0
838	.0	.0	.0	.0	.0
844	.0	.0	.0	.0	.0
848	.0	.0	.0	.0	.0
854	.0	.0	.0	.0	.0
860	.0	.0	.0	.0	.0
864	.0	.0	.0	.0	.0
868	.0	.0	.0	.0	.0
874	.0	.0	.0	.0	.0
878	.0	.0	.0	.0	.0
884	.0	.0	.0	.0	.0
888	.0	.0	.0	.0	.0
894	.0	.0	.0	.0	.0
900	.0	.0	.0	.0	.0
904	.0	.0	.0	.0	.0
908	.0	.0	.0	.0	.0
914	.0	.0	.0	.0	.0
918	.0	.0	.0	.0	.0
924	.0	.0	.0	.0	.0
928	.0	.0	.0	.0	.0
934	.0	.0	.0	.0	.0
938	.0	.0	.0	.0	.0
944	.0	.0	.0	.0	.0
948	.0	.0	.0	.0	.0
954	.0	.0	.0	.0	.0
960	.0	.0	.0	.0	.0
964	.0	.0	.0	.0	.0
968	.0	.0	.0	.0	.0
974	.0	.0	.0	.0	.0
978	.0	.0	.0	.0	.0
984	.0	.0	.0	.0	.0
988	.0	.0	.0	.0	.0
994	.0	.0	.0	.0	.0
1000	.0	.0	.0	.0	.0

•• CCN1L - 10(1) •

•••SPAL ARRAY. MCI 30000

SPAL

1	.33144000E+04	.181948872E+04	.11721059E+03	.63519170E+03	.46547545E+07
1	.67813449E+04	.741470E+04	.94500000E+00	.63519170E+03	.3947345E+07
11	.14920000E+06	0.	0.	0.	0.
16	.11500000E+01	0.	.50000000E+04	.10000000E+05	.15000000E+05
21	.20000000E+05	.21250000E+05	.22500000E+04	.34250000E+05	.50000000E+05
26	.60000000E+00	.6494594E+00	.70400000E+00	.74875274E+00	.84000000E+00
31	.85482241E+00	.97000000E+00	.87000000E+00	.87000000E+00	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	.10540721E+03	.4533644E+02	.0533644E+02	.80000000E+02	0.

[illegible][illegible]

SECTION NO. 1

** ABOVE AND DMAX = IP(5) *

TT(1)	46.442
TT(11)	77.700
TT(12)	803.066
TT(14)	142.714
TT(19)	2.843
TT(20)	6.527

Y(A)	X(A)	C(A)	DMAX	DC/C	D(I)	C(O)	C/CO
108.003	738.990	355.713	45.254	.100	27.915	297.390	.120
103.120	745.517	356.832	45.435	.122	30.983	297.946	.147
100.237	752.045	357.950	45.616	.144	33.702	298.503	.173
97.353	758.572	359.064	45.797	.166	36.115	299.054	.200
94.470	765.099	360.184	45.977	.188	38.252	299.615	.226
91.587	771.627	361.306	46.158	.210	40.135	300.171	.252
88.704	778.154	362.425	46.339	.231	41.782	300.728	.279
85.821	784.682	363.544	46.520	.252	43.204	301.284	.305
82.937	791.209	364.662	46.701	.274	44.415	301.840	.331
80.054	797.737	365.781	46.882	.295	45.424	302.396	.356
77.171	804.264	366.900	47.063	.316	46.239	302.953	.382
74.287	810.792	368.018	47.244	.336	46.870	303.509	.408
71.404	817.319	369.137	47.425	.357	47.323	304.065	.434
68.521	823.847	370.256	47.606	.378	47.605	304.621	.459
65.638	830.374	371.374	47.787	.398	47.724	305.178	.484
62.754	836.902	372.493	47.968	.418	47.886	305.734	.510
59.871	843.429	373.612	48.149	.439	47.997	306.290	.535
56.988	849.957	374.730	48.330	.459	47.163	306.846	.560
54.104	856.484	375.849	48.511	.479	46.691	307.403	.585
51.221	863.012	376.968	48.692	.498	46.086	307.959	.610
48.338	869.539	378.086	48.873	.518	45.354	308.515	.635
45.454	876.066	379.204	49.053	.537	44.104	309.071	.660

K1SEC1 = .4024 DAVE = 43.077 DMAX = 47.724

** DMAX (CALLED FROM TWOC AND GEOM) = IP(5) *

Y(A)	X(A)	C(A)	DMAX	C/C	D(I)	C(O)	C/CO
77.700	691.066	369.694	47.030	.006	6.964	302.851	.008
77.700	915.066	369.694	47.030	.617	37.621	302.851	.747
77.700	697.907	369.694	47.030	.025	14.048	302.851	.030
77.700	725.082	369.694	47.030	.099	28.430	302.851	.120
77.700	881.050	369.694	47.030	.524	43.362	302.851	.635
165.899	742.433	332.474	41.494	.025	12.395	285.835	.029
165.899	768.422	332.474	41.494	.103	25.962	285.835	.120
165.899	915.620	332.474	41.494	.546	17.254	285.835	.635
254.098	786.960	298.254	35.959	.025	10.741	248.819	.028
254.098	811.741	298.254	35.959	.108	23.844	248.819	.120
254.098	950.203	298.254	35.959	.572	31.899	248.819	.635
342.296	831.486	264.034	30.423	.025	9.087	251.803	.026
342.296	855.101	264.034	30.423	.114	20.059	251.803	.120
342.296	984.780	264.034	30.423	.606	24.878	251.803	.635
430.494	876.136	234.787	25.880	.025	7.730	234.787	.025
430.494	898.441	234.787	25.880	.120	17.472	234.787	.120
430.494	1019.356	234.787	25.880	.635	19.963	234.787	.635
518.694	921.093	217.771	23.778	.025	7.103	217.771	.025
518.694	941.781	217.771	23.778	.120	16.053	217.771	.120
518.694	1053.933	217.771	23.778	.635	18.342	217.771	.635
606.893	966.044	200.755	21.676	.025	6.475	200.755	.025
606.893	985.121	200.755	21.676	.120	14.634	200.755	.120
606.893	1088.510	200.755	21.676	.635	16.720	200.755	.635
695.092	1011.005	183.739	19.575	.025	5.847	183.739	.025
695.092	1028.461	183.739	19.575	.120	13.215	183.739	.120
695.092	1123.086	183.739	19.575	.635	15.099	183.739	.635
783.290	1055.962	166.723	17.473	.025	5.219	166.723	.025
783.290	1071.800	166.723	17.473	.120	11.798	166.723	.120
783.290	1157.663	166.723	17.473	.635	13.478	166.723	.635
871.484	1100.918	149.707	15.371	.025	4.591	149.707	.025
871.484	1115.140	149.707	15.371	.120	10.377	149.707	.120
871.484	1192.234	149.707	15.371	.635	11.857	149.707	.635
937.638	1134.635	136.945	13.795	.025	4.170	136.945	.025
937.638	1147.645	136.945	13.795	.120	9.713	136.945	.120
937.638	1218.172	136.945	13.795	.635	10.641	136.945	.635

00 PMTG - IP(A) *

CASE NO. 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

*** GEOMETRY DATA - WING ANALYTIC REFERENCE ***
** PLATFORM GEOMETRY PARAMETERS--SWEEP 25.00 DEGREE AT 25.00 C. **

PANEL	AREA	AR	T.W.	T/C(D)	T/C(T)	SIGMA	C(R)	C(TTP)	SPAN/2	RS/41
GRUSS	3002.500	A.5200	.41750	.16330	.10000	.41237	317.841	132.699	959.649	1040.099
EXPENSE1	2467.545	A.0947	.43417	.16105	.10000	.42001	302.851	132.699	941.949	77.700
STUCT.	2467.545	9.4997	.43417	.17278	.10728	.42001	242.298	123.693	944.155	84.043
P(AFMO)	0.000	0.0000	0.00000	0.00000	0.00000	0.00000	0.000	0.000	0.000	0.000
P(STMC)	0.000	0.0000	0.00000	0.00000	0.00000	0.00000	0.000	0.000	0.000	0.000
CL-V	334.915	.5007	.95284	.16330	.12825	.78539	317.841	102.851	77.700	84.943
CL-Y11	2461.244	A.2449	.43086	.16330	.10073	.41684	317.841	136.945	937.638	1025.035
Y1-Y11	2626.360	7.8713	.45219	.12425	.10073	.78540	302.851	136.945	859.938	940.093
Y11-W/2	41.214	.3265	.94409	.10073	.10000	.99275	136.945	132.699	22.011	24.063

** PLATFORM EQUATIONS AND COORDINATES. **

ITEM	IF	FS	FA	DS	TF	FS(N)	.25 C	AERO C	STRUC. C
TAN	.514534	.491388	.441709	.102731	.321412	0.000000	.466307	-.142927	-0.144501
CX0	.448.740	.686.901	.744.745	.450.589	.966.401	0.000	.728.220	.317.841	.294.271
SIN	.457526	.441020	.404048	.344984	.306168	0.000000	.422618		
CUS	.840146	.897494	.914728	.921013	.951078	0.000000	.906308		
ANGLE	27.228	26.149	23.832	21.407	17.828	0.000	25.000		
EQU X/C		.120000	.377500	.435000					
X-W/2	.488.740	725.082	803.066	881.150	991.590	0.000	164.452		
X-PIVOT	.488.740	725.082	803.066	881.150	991.590	0.000	764.452		
X-W/2	1142.537	1158.441	1142.831	1226.401	1275.236	0.000	1175.712		

** T/C LE. LE CONTROL POINTS. **

POINT	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Y(B.P.)	0.00	405.00	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65
T/C	.1308	.1105	.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DMAX	51.407	26.447	13.260	13.270	13.270	13.270	13.270	13.270	13.270	13.270	13.270
Y(LE)	0.00	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65
X(LE)	648.76	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54
Y(TE)	0.00	405.00	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65
X(TF)	1045.40	1096.85	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24

CASE NO. 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

*** STRUCTURAL SYSTEM GEOMETRY DATA -- REF SWEEP= 25.00 DEGREES AT 250 C. ***

POINT	VEA(A)	Y(STHUC)	YI/YO	C(AERO)	DMAX	T/C	XFA(A)	Y(FS)	X(FS)	Y(RS)	Y(RS)
1	77.700	84.942	0.0000	366.694	47.030	.12825	803.066	106.003	738.990	48.338	840.539
2	165.899	181.362	.1000	332.474	41.494	.12480	842.024	192.612	781.549	138.147	904.742
3	254.098	277.782	.2000	298.254	35.959	.12056	849.982	279.220	824.106	228.035	930.986
4	342.296	374.202	.3000	264.034	30.423	.11522	919.940	365.829	866.665	317.884	975.208
5	430.495	470.621	.4000	234.787	25.880	.11023	958.899	452.437	909.223	407.732	1010.433
6	518.694	567.041	.5000	217.771	23.778	.10919	997.857	539.046	951.782	497.581	1045.654
7	606.893	663.461	.6000	200.755	21.676	.10797	1034.814	625.654	994.340	587.429	1080.879
8	695.092	759.881	.7000	183.739	19.575	.10653	1075.773	712.263	1036.898	677.278	1114.103
9	783.290	856.301	.8000	166.723	17.473	.10480	1114.732	798.872	1079.457	767.126	1151.324
10	871.489	952.720	.9000	149.707	15.371	.10267	1153.690	885.480	1122.015	856.975	1184.549
11	937.638	1025.035	.9750	136.945	13.795	.10073	1182.908	950.437	1153.934	924.361	1212.947

POINT	Y(STHUC)	WIDTH	D(TB)	D(FS)	N(MS)	XA(TB)	K(SEC)	MAX D	NS(TB)	J1(TB)	J2(TB)
1	84.942	142.718	43.077	27.915	45.354	6147.794	.9203	47.724	358.704	421.46	5368.203
2	181.362	134.699	38.119	25.085	39.174	5134.442	.9300	42.012	333.657	31606.760	63212.520
3	277.782	126.680	33.081	22.202	32.924	4190.496	.9325	36.323	308.486	22771.737	45543.473
4	374.202	118.662	27.944	19.248	26.605	3315.860	.9338	30.626	283.176	15530.850	31041.700
5	470.621	110.643	23.525	17.119	20.381	2602.893	.9310	25.889	258.786	10472.056	20944.112
6	567.041	102.624	21.615	15.725	18.730	2218.193	.9310	23.787	239.703	8210.780	16421.560
7	663.461	94.606	19.704	14.332	17.078	1844.132	.9310	21.684	220.621	6300.376	12600.753
8	759.881	86.587	17.794	12.939	15.426	1540.710	.9310	19.582	201.539	4711.330	9422.659
9	856.301	78.568	15.883	11.545	13.775	1247.926	.9310	17.479	182.456	3414.124	6828.248
10	952.720	70.549	13.973	10.152	12.123	985.782	.9310	15.377	163.374	2379.243	4788.487
11	1025.035	64.535	12.540	9.107	10.885	809.279	.9310	13.800	149.062	1757.478	3514.957

PANEL	S(TOT)	S(TB)	S(LE)	S(TE)	AVE K(SEC)	VOL(LF)	VOL(TF)	NELY(A)	UELY(S)	S	S(TB)	SVO(TA)
SUM	1387.051	676.518	157.582	552.951	1470.5682	0.0000	0.0000	0.000	0.000	0.000	0.000	0.0000
1	214.149	92.877	21.634	99.638	314.7714	0.0000	0.0000	88.199	96.420	674.518	1470.5682	0.0000
2	193.187	87.508	20.383	85.297	260.1698	0.0000	0.0000	88.199	96.420	583.641	1155.7968	0.0000
3	172.226	82.138	19.133	70.955	209.4272	0.0000	0.0000	88.199	96.420	496.134	895.4270	0.0000
4	152.788	76.769	17.882	58.137	165.1287	0.0000	0.0000	88.199	96.420	413.995	686.1998	0.0000
5	138.618	71.400	16.631	50.587	134.5046	0.0000	0.0000	88.199	96.420	337.226	521.8711	0.0000
6	128.194	66.031	15.381	46.783	113.8938	0.0000	0.0000	88.199	96.420	265.826	386.8665	0.0000
7	117.770	60.662	14.130	42.979	94.9925	0.0000	0.0000	88.199	96.420	199.794	272.4727	0.0000
8	107.346	55.292	12.879	39.175	77.8008	0.0000	0.0000	88.199	96.420	139.134	177.4802	0.0000
9	96.922	49.923	11.629	35.370	62.3188	0.0000	0.0000	88.199	96.420	83.842	99.8794	0.0000
10	65.851	33.919	7.901	24.031	37.5605	0.0000	0.0000	66.149	72.315	33.919	77.5606	0.0000

TAY							
1	.2667504E+00	.8099650E+01	.4381553E+00	.1410543E+00	.6289087E+00	.8819493E+03	.7770880E+00
8	.4596643E+03	.3028505E+03	.1326088E+03	.9499280E+01	.4381653E+00	.1727799E+00	.6289087E+00
15	.9661556E+03	.8094230E+02	.1049098E+04	.2872979E+07	.1236931E+03	.6487600E+03	.6859089E+00
22	.7687450E+03	.8505890E+03	.9664611E+03	.3178418E+07	.2942709E+03	.5145393E+00	.4913880E+00
29	.4417043E+00	.3420306E+00	.3216122E+00	.1999271E+00	.1645012E+00	.4575263E+00	.4410105E+00
36	.4040481E+00	.3644850E+00	.7061474E+00	.8491941E+00	.8474975E+00	.9147377E+00	.9310172E+00
43	.4519774E+00	.4596157E+00	.4417043E+00	.7487440E+07	.2243937E+01	.3365212E+04	0.
50	0.	.4683075E+00	.4228111E+00	.9063078E+00	.7282262E+03	.7770880E+02	.1649089E+00
57	.2504976E+03	.3427960E+03	.4380952E+03	.5186940E+07	.8088928E+03	.6958910E+03	.7872644E+00
64	.8714897E+03	.9376306E+03	.8030855E+03	.8420240E+03	.8089822E+03	.9199405E+03	.9588047E+00
71	.9478504E+03	.1036815E+04	.1075173E+04	.1114747E+04	.1143690E+04	.1182900E+04	.2240270E+00
78	.1427180E+03	.1366992E+03	.1246800E+03	.1180617E+07	.1106430E+03	.1026242E+03	.9666941E+00
85	.6858077E+02	.7846803E+02	.7054979E+02	.6451535E+02	0.	.4307653E+02	.3810152E+00
92	.3308046E+02	.2794300E+02	.2352915E+02	.2161471E+02	.1970427E+02	.1779303E+02	.1588179E+00
99	.1347295E+02	.1240121E+02	0.	.6147704E+04	.5134642E+04	.4190690E+04	.3315840E+00
106	.2682843E+04	.2218193E+04	.1846132E+04	.1560718E+04	.1247926E+04	.9857810E+03	.7130902E+00
113	.3666942E+03	.3324741E+03	.2982539E+03	.2440349E+07	.2347808E+03	.2177700E+03	.2007460E+00
120	.1837390E+03	.1667230E+03	.1497071E+03	.1749441E+07	.4703085E+02	.4149430E+02	.3595847E+00
127	.3042247E+02	.2587440E+02	.2377811E+02	.2147691E+07	.1947451E+02	.1747272E+02	.1537402E+00
134	.1374457E+02	0.	.8287473E+02	.8740743E+07	.8213832E+02	.7676912E+02	.7130902E+00
141	.6803077E+02	.6066152E+02	.5529231E+02	.4997311E+07	.3391800E+02	0.	.9039949E+00
148	.6457351E+06	.3618402E+06	.2853420E+06	.2724240E+04	.1988084E+06	.1641470E+06	.1344198E+00
155	.1876868E+06	.6490476E+05	0.	.1213745E+07	.2895472E+03	.2977165E+03	.3858017E+00
162	.4740619E+03	.5621957E+03	.4503416E+03	.7784773E+07	.8245993E+03	.9040720E+03	.8030480E+00
169	.8223577E+03	.8613039E+03	.9002491E+03	.9701959E+07	.9781337E+03	.1017072E+04	.1050807E+00
176	.1046437E+04	.1133862E+04	.1146082E+04	.1180091E+07	.1426116E+03	.2792202E+03	.3658982E+00
183	.4524373E+03	.5390459E+03	.6256440E+03	.7122690E+07	.7988716E+03	.8894801E+03	.9584446E+00
190	.6910858E+03	.7389890E+03	.7815480E+03	.8241044E+07	.8646440E+03	.9092232E+03	.9517146E+00
197	.4943608E+03	.1036890E+04	.1079447E+04	.1122015E+04	.1153934E+04	.6963802E+01	.2791494E+00
204	.2588061E+02	.2270150E+02	.1924772E+02	.1711870E+07	.1572535E+02	.1433199E+02	.1793048E+00
211	.1156524E+02	.1015193E+02	.4106017E+01	.9261305E+00	.9225202E+00	.9325202E+00	.9330143E+00
218	.4309090E+00	.4309703E+00	.4309719E+00	.9384718E+00	.9384762E+00	.9309792E+00	.9309821E+00
225	0.	0.	0.	0.	0.	0.	0.
232	0.	0.	0.	0.	0.	.4214650E+05	.3140476E+00
239	.2277174E+05	.1553085E+05	.1047206E+05	.8219780E+04	.6080376E+04	.4711330E+04	.3014120E+00
246	.2374243E+04	.1757478E+04	.1263388E+02	.2183833E+07	.1913257E+02	.1780192E+02	.1643127E+00
253	.1538001E+02	.1412946E+02	.1287030E+02	.1142845E+07	.7400744E+01	0.	0.
260	0.	0.	0.	0.	0.	0.	0.
267	0.	.1213745E+03	.2099547E+03	.2977144E+07	.3858017E+03	.4740619E+03	.5621957E+00
274	.8503416E+03	.7384773E+03	.6265993E+03	.9040759E+07	.1768547E+02	.1664082E+02	.1542420E+00
281	.1440364E+02	.1354313E+02	.1256269E+02	.1144245E+07	.1052212E+02	.9502054E+01	.8685748E+00
288	.6833814E+02	.1381861E+03	.2288752E+03	.3178417E+07	.4077322E+03	.4975907E+03	.5876903E+00
295	.6772718E+03	.7671263E+03	.8569748E+03	.9247012E+07	.9186584E+03	.8695390E+03	.8047496E+00
302	.4399858E+03	.9752041E+03	.1010433E+04	.1165066E+04	.1080879E+04	.1116103E+04	.1151966E+00
309	.1116544E+04	.1212967E+04	.1762802E+02	.4535304E+07	.3917400E+02	.3292390E+02	.2660972E+00
316	.2038117E+02	.1872940E+02	.1707804E+02	.1542647E+02	.1477490E+02	.1212333E+02	.1080845E+00
323	.4772402E+02	.4201167E+02	.3632250E+02	.3462509E+02	.2588061E+02	.2378670E+02	.2160623E+00
330	.1958117E+02	.1747431E+02	.1537445E+02	.1780080E+07	0.	0.	0.
337	0.	0.	0.	0.	0.	0.	0.
344	0.	0.	.8424917E+05	.6721342E+04	.4594347E+05	.3106170E+05	.2090411E+00
351	.1642156E+05	.1260075E+05	.9422849E+04	.6878248E+04	.4798487E+04	.3514057E+04	.9943880E+00
358	.8529657E+02	.7095506E+02	.5813456E+02	.5848477E+07	.4678244E+02	.4297802E+02	.3917495E+00
365	.3537847E+02	.2703143E+02	0.	0.	0.	0.	0.
372	0.	0.	0.	0.	0.	.1207415E+03	.2087424E+00
379	.2467114E+03	.3849678E+03	.4740619E+03	.5421947E+07	.6503416E+03	.7384773E+03	.8265893E+00
386	.9040729E+03	.8614785E+02	.6479480E+02	.5812049E+07	.4740836E+02	.4131534E+02	.3821142E+00
393	.3510797E+02	.3288674E+02	.2880288E+02	.2617490E+07	0.	0.	0.
400	0.	0.	0.	0.	0.	0.	0.
407	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.
421	.8887347E+03	.7250810E+03	.6030848E+03	.8811408E+07	.9415902E+03	.8887397E+03	.7250810E+00
428	.8030855E+03	.8811408E+03	.9415902E+03	.1142577E+04	.1148461E+04	.1192631E+04	.1226881E+00
435	.1275238E+04	.1175712E+04	0.	0.	0.	0.	0.
442	0.	0.	0.	0.	0.	0.	0.
449	0.	0.	.1633800E+00	.1000000E+00	.9596493E+03	0.	.5190143E+00
456	.1324884E+02	.5140343E+02	.1326088E+02	.4025811E+01	0.	0.	0.
463	0.	0.	.4323800E+06	.1919200E+04	.4443322E+00	.1417500E+01	.2580880E+00
470	.7282262E+03	.4683075E+00	.4228111E+00	.9063078E+00	.1175712E+04	0.	0.
477	0.	0.	0.	0.	0.	0.	0.
484	0.	0.	0.	0.	0.	0.	0.
491	.1813021E+03	.2777811E+03	.7742811E+03	.4784214E+07	.5678412E+03	.6634610E+03	.7598847E+00
498	.6583064E+03	.9527203E+03	.1025835E+04	.1463342E+07	.4088497E+02	.8216768E+01	.2499249E+00

GEOMM SURV. FLUTTER GEOMFTHY DATA

♦♦ GENYU - 1P(7) ♦♦

201

1	30025000E+04	•A5200000E+01	•41750000E+00	•25000000F+02	•16330000F+00
6	•61237000F+00	•15400000E+03	•104900974E+04	•40194031F+03	•94415540F+03
11	•77700000F+02	•30285054E+03	•44321745E+02	•42016533F+00	•14105431F+00
16	•62090470F+00	•93213572E+00	•47124880E+00	•40404814F+00	•91473772F+00
21	•12000000F+00	•63500000E+00	•37750000E+00	•90869044F+00	•42261814F+00
26	•90630785F+00	•96415540E+03	•86773563E+03	•77131587F+03	•67489610F+03
31	•57447634F+03	•48205657E+03	•38663680E+03	•28021704F+03	•19279727F+03
36	•96377507F+02	•24062683E+02	•14271795E+03	•12469021F+03	•12664047E+03
41	•11866173E+03	•11064299E+03	•10262425E+03	•94605508F+02	•86586767F+02
46	•78568027F+02	•70549286E+02	•64535230E+02	•44321745F+02	•41095249F+02
51	•37868754E+02	•34642258E+02	•31415763E+02	•20189267E+02	•24962772F+02
56	•21736276E+02	•18509780E+02	•15283285E+02	•12063413F+02	•30285054F+03
61	•28583460E+03	•26881866E+03	•25180272E+03	•22478678E+03	•21777084E+03
66	•20075491E+03	•18373897E+03	•16672303E+03	•14970709F+03	•12694513F+03
71	•10000000F+01	•70505692E+03	•10000000E+01	•80000000E+02	•10000000F+01
76	•90000000E+00	•97500000E+00	•84042381E+02	•10136215F+03	•27778191F+03
81	•37420168E+03	•47062144E+03	•56704121E+03	•66246077F+03	•75988074F+03
86	•85630051F+03	•95272027E+03	•10250351E+04	•77700000F+02	•14589880F+03
91	•25409759E+03	•34229639E+03	•43049519E+03	•51869208E+03	•60684278E+03
96	•69509158F+03	•78329037E+03	•87148917E+03	•92763027E+03	•0
101	0	0	0	0	0
106	0	0	0	0	0
111	0	0	•43076527E+02	0	0
166	0	0	0	0	0
171	0	0	0	0	0
176	0	0	0	0	0
181	0	0	0	0	0
186	0	0	0	0	0
191	0	0	0	0	0
196	0	0	0	0	0

YC

1	68873970E+03	68873970E+03	72504177E+03	80306578E+03	88104979E+03
6	99159024E+03	10554330E+04	26669424E+03	30285054E+03	15596803E+03
11	11884711E+03	11884711E+03	10600306E+03	77700000E+02	48333141E+02
16	47852041E+01	-27872042E+02	70991150E+03	70001150E+03	73898955E+03
21	80306578E+03	86953905E+03	96413996E+03	10420738E+04	36312294E+03
26	28229781E+03	14271795E+03	97947333E+03	-23904829E+01	47030052E+02
31	12825413E+00	51453927E+00	51453927E+00	51453927E+00	51453927E+00

YC

1	73412145E+03	73412145E+03	76442160E+03	84202401E+03	91562642E+03
6	10199560E+04	10665955E+04	33247409E+03	28583460E+03	14720482E+03
11	20473402E+03	20473402E+03	19261163E+03	16589880E+03	13814666E+03
16	97080786E+02	71954795E+02	75410369E+03	75410369E+03	78154796E+03
21	84202401E+03	90476241E+03	99782334E+03	10547069E+04	32862228E+03
26	26643664E+03	13469921E+03	12176077E+04	23904829E+01	41494359E+02
31	12480479E+00	51453927E+00	51453927E+00	51453927E+00	51453927E+00

YC

1	77950319E+03	77950319E+03	81176143E+03	88098223E+03	95020304E+03
6	10483219E+04	10777571E+04	29425395E+03	26881866E+03	13844161E+03
11	29062092E+03	29062092E+03	27922019E+03	25404759E+03	22803518E+03
16	18937637E+03	17178163E+03	79429588E+03	79829588E+03	82410637E+03
21	88098223E+03	93998578E+03	10275067E+04	10673400E+04	29412162E+03
26	25057548E+03	12668047E+03	14562420E+04	23904829E+01	35958667E+02
31	12056393E+00	51453927E+00	51453927E+00	51453927E+00	51453927E+00

YC

1	82488493E+03	82488493E+03	85510126E+03	91994046E+03	98477966E+03
6	10766877E+04	10889147E+04	26403380E+03	25180272E+03	12467840E+03
11	37650783E+03	37650783E+03	36582875E+03	34229639E+03	31788370E+03
16	28167195E+03	27160847E+03	44248806E+03	84248806E+03	46666478E+03
21	91994046E+03	97520914E+03	10571901E+04	10799731E+04	25962045E+03

16					
1	04442341E+02	018136215E+03	027774191E+03	037420148E+03	047052144E+03
6	056700121E+03	006360007E+03	0754440074E+03	085430051E+03	095272021E+03
11	01250351E+00	077700000E+02	016444444E+03	026404759E+03	036229634E+03
16	04004519E+03	051444444E+03	040444278E+03	06509158E+03	07832903E+03
21	07144411E+03	04373427E+04	040405574E+03	060202001E+03	044444223E+03
26	04194400E+03	045444444E+03	047444442E+03	01344151E+00	01075773E+00
31	01116731E+00	011530034E+00	011244445E+00	07807333E+03	017176077E+00
36	01650421E+00	010444444E+00	01434101E+00	021721451E+00	024107744E+00
41	02404413E+00	020000041E+00	012004425E+00	03305058E+00	04042341E+02
46	01320471E+03	022407414E+03	024444457E+03	042184440E+03	051422710E+03
51	01454471E+03	014444442E+03	040731034E+03	090344023E+03	044434110E+03
56	014251351E+00	077700000E+02	01213747E+03	02044723E+03	029771654E+03
61	03450417E+03	047444444E+03	046214573E+03	05034143E+03	073447720E+03
66	04054424E+03	040444444E+03	04703027E+03	040444444E+03	042235721E+03
71	04013034E+03	04002441E+03	04714241E+03	04713347E+03	010170720E+00
76	01050004E+00	01094437E+00	01134416E+00	011444444E+00	011444444E+00
81	04704733E+03	010744444E+00	013344444E+00	01542544E+00	01444422E+00
86	02451325E+00	024444444E+00	025444444E+00	024444444E+00	03005226E+00
91	03214423E+00	033044444E+00	047514444E+00	09247470E+02	04744752E+02
96	05242314E+02	050444444E+02	071444421E+02	04043014E+02	040444444E+02
101	05242314E+02	044444444E+02	073444444E+02	015758214E+03	020444444E+02
106	01444100E+02	018244444E+02	017144233E+02	01590330E+02	01470100E+02
111	01351442E+02	01351557E+02	011144055E+02	05747114E+01	04670162E+01
116	01734423E+02	015758214E+03	024444444E+02	01949104E+02	01824514E+02
121	01734423E+02	01544433E+02	01470744E+02	01351492E+02	01231557E+02
126	01111400E+02	01744414E+01	04470142E+01	04470142E+01	04470142E+01
131	03344240E+02	01072104E+01	04470142E+01	04470142E+01	04470142E+01
136	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
141	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
146	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
151	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
156	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
161	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
166	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
171	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
176	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
181	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
186	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
191	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
196	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
201	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
206	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
211	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
216	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
221	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
226	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
231	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
236	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
241	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
246	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
251	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
256	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
261	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
266	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
271	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
276	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
281	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
286	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
291	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
296	04447142E+02	04447142E+02	04470142E+01	04470142E+01	04470142E+01
16A					
1	077700000E+02	010544444E+03	025404444E+03	036224479E+03	04304797E+03
6	05146744E+03	000000000E+02	040444444E+03	07422594E+03	08714564E+03
11	04960431E+03	04030057E+03	04202230E+03	04407782E+03	04149353E+03
16	04444414E+03	044444444E+03	010304444E+04	01075761E+00	01144717E+00
21	01153470E+00	01142031E+00	01719747E+03	02009420E+03	024414733E+03
26	04444422E+03	044444444E+03	04227721E+03	05094705E+03	07341414E+03
31	04735041E+03	04175514E+03	04225444E+03	04150054E+03	04045700E+03
36	04444430E+03	044444444E+03	01017324E+04	01056283E+00	01045234E+00
41	01341402E+00	01173157E+00			
46					
51					
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71					
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81					
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96					
101					
106					
111					
116					
121					
126					
131					

•• CTOII (CALLED) FROM (EWI) - IP(M) ••

YC	IT(1) = 507.669	IT(2) = 0.000	
1	.90997570E+03	.90997570E+03	.9929M/14E+03
6	.1129M735E+04	.1129M735E+04	.210M97H4E+03
11	.95624446E+03	.95624446E+03	.93763827E+03
16	.90466713E+03	.90466713E+03	.11407853E+04
21	.11829085E+04	.12129669E+04	.12575529E+04
26	.12765145E+03	.64535230E+02	-.25A55447E+01
31	.10932727E+00	.51453927E+00	.51453927E+00

YC	IT(1) = 121.375	IT(2) = 0.000	
1	.71121195E+03	.71121195E+03	.82235721E+03
6	.10056365E+04	.10609510E+04	.29442454E+03
11	.95624446E+03	.95624446E+03	.93763827E+03
16	.90466713E+03	.90466713E+03	.11407853E+04
21	.11829085E+04	.12129669E+04	.12575529E+04
26	.12765145E+03	.64535230E+02	-.25A55447E+01
31	.12663044E+00	.51453927E+00	.51453927E+00

YC	IT(1) = 209.547	IT(2) = 0.000	
1	.75658028E+03	.75658028E+03	.86130392E+03
6	.10339939E+04	.10721193E+04	.27741363E+03
11	.95624446E+03	.95624446E+03	.93763827E+03
16	.90466713E+03	.90466713E+03	.11407853E+04
21	.11829085E+04	.12129669E+04	.12575529E+04
26	.12765145E+03	.64535230E+02	-.25A55447E+01
31	.12282101E+00	.51453927E+00	.51453927E+00

YC	IT(1) = 297.717	IT(2) = 0.000	
1	.80194685E+03	.80194685E+03	.90024913E+03
6	.10623502E+04	.10432771E+04	.26040338E+03
11	.95624446E+03	.95624446E+03	.93763827E+03
16	.90466713E+03	.90466713E+03	.11407853E+04
21	.11829085E+04	.12129669E+04	.12575529E+04

LE DEVICE 1 TIME 10

100					
1	.1444422E+01	.1024051E+03	.3348771E+03	.3980921E+00	.2023330E+00
6	.2340156E+01	.1180521E+01	.3858020E+02	.3848724E+02	.3080410E+01
11	.3044414E+01	.8354051E+02	.8359053E+02	.2947015E+03	.3960002E+03
16	.5044430E+00	.2100000E+01	.2140566E+01	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	.7044454E+00	.3755054E+00	.3353333E+00	.4835805E+00	.1455671E+01
46	0.	0.	0.	0.	0.
51	.1000000E+01	.2000000E+01	.6500000E+02	.1500000E+03	.1400000E+00
56	.1000000E+01	.2500000E+01	.2500000E+01	0.	.1000000E+01
61	.1000000E+01	.1000000E+00	.1000000E+01	.3510000E+00	.3200000E+00
66	.1000000E+01	.8000000E+00	.2500000E+00	.1000000E+00	.2500000E+00
71	.1000000E+00	.1000000E+01	.1000000E+01	.1250000E+00	.1000000E+01
76	.1010000E+01	.1110700E+03	.1125074E+01	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
FST					
1	.6500000E+02	.1500000E+03	.2947012E+03	.3940000E+03	.3101560E+03
6	.4064777E+03	.2145520E+02	.1087742E+02	.9502414E+01	.1203195E+03
11	.1200000E+00	.2454404E+02	.6215975E+02	.5541700E+01	.3990000E+01
16	0.	.4004493E+02	.1773879E+02	0.	.9730000E+01
21	.4454178E+01	0.	.4500000E+02	.1075000E+03	.1500000E+03
26	0.	.2145520E+02	.1010431E+02	.1087742E+02	0.
31	.4525021E+02	.1273067E+03	0.	.3759501E+03	.3741670E+03
36	0.	.8500000E+02	.7534415E+00	.0720450E+00	0.
41	.1745054E+00	.1450000E+00	.3831200E+01	.1902397E+01	.2222222E+01
46	.5275730E+01	.9018294E+01	.9178372E+02	.9410140E+00	.3173050E+05
CCI					
1	.3341135E+02	.5140256E+01	.4749090E+01	.4358739E+01	.3967975E+01
6	.3577215E+01	.3100454E+01	.2795094E+01	.2404934E+01	.2014170E+01
11	.1023013E+01	.2214010E+02	.2314010E+02	.2314010E+02	.2314010E+02
16	.2314010E+02	.2314010E+02	.2314010E+02	.2314010E+02	.2314010E+02
21	.2314010E+02	.5495552E+00	.5495552E+00	.5495552E+00	.5495552E+00
26	.5495552E+00	.5495552E+00	.5495552E+00	.5495552E+00	.5495552E+00
31	.5495552E+00	.4000000E+01	.4000000E+01	.4000000E+01	.4000000E+01
36	.4000000E+01	.4000000E+01	.4000000E+01	.4000000E+01	.4000000E+01
41	.4000000E+01	.2007425E+03	.3042265E+03	.3197105E+03	.3351965E+03
46	.3042265E+03	.3042265E+03	.3042265E+03	.3071705E+03	.4120145E+03
51	.3071705E+03	.4435025E+03	.3123909E+03	.3201400E+03	.3399002E+03
56	.3123909E+03	.3074005E+03	.3811551E+03	.3949000E+03	.4000500E+03
61	.3811551E+03	.4361017E+03	.4499174E+03	.9178372E+02	0.
66	.4499174E+03	0.	0.	0.	.9010200E+01
71	0.	0.	0.	0.	0.
76	.4502614E+01	0.	0.	0.	0.
81	0.	.6500000E+02	0.	0.	0.
86	0.	0.	.1500000E+03	0.	0.
91	0.	0.	0.	.1025680E+03	0.
96	0.	0.	0.	0.	.3057750E+03
101	0.	0.	0.	0.	0.
106	.4444430E+02	0.	0.	0.	0.
111	0.	.2030519E+01	0.	0.	0.
116	0.	0.	.1450000E+00	0.	0.
121	0.	0.	0.	.1101759E+01	0.
126	0.	0.	0.	0.	.2123730E+03
131	0.	0.	0.	0.	0.
136	.1067300E+01	0.	0.	0.	0.
141	0.	.2407814E+03	0.	0.	0.
146	0.	0.	.1498022E+01	0.	0.
151	0.	0.	0.	.8796290E+00	0.
156	0.	0.	0.	0.	.1704030E+01
161	0.	0.	0.	0.	0.
166	.1024051E+03	0.	0.	0.	0.
171	0.	.3348771E+03	0.	0.	0.
176	0.	0.	.1157053E+03	0.	0.
181	0.	0.	0.	.3227207E+01	0.
186	0.	0.	0.	0.	.2166666E+01
191	0.	0.	0.	0.	0.
196	.1191752E+01	0.	0.	0.	0.
201	0.	.2172370E+03	0.	0.	0.
206	0.	0.	.1169530E+01	0.	0.
211	0.	0.	0.	.2225130E+03	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.
251	0.	0.	0.	0.	0.
256	0.	0.	0.	0.	0.
261	0.	0.	0.	0.	0.
266	0.	0.	0.	0.	0.
271	0.	0.	0.	0.	0.
276	0.	0.	0.	0.	0.
281	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.
291	0.	0.	0.	0.	0.
296	0.	.1730111E+01	.6290290E+00	.8000000E+01	.14992610E+02

LEWT SUMM. LE WEIGHT AND DISTRIBUTION SUMMARY ARRAYS--CCW, CCL

** LEWT - IP(11) *

CCW					
1	.69987670E+03	0.	.69987670E+03	0.	0.
6	0.	0.	0.	.44413494E+01	0.
11	.44413494E+01	0.	0.	0.	0.
16	0.	.15758214E+03	0.	.15758214E+03	0.
21	0.	0.	0.	0.	.15758214E+03
26	0.	.45360296E+03	.89955915E+03	0.	0.
31	.45360296E+03	.89955915E+03	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
CCL					
1	.69987670E+03	.90903550E+02	.90928962E+02	.84974374E+02	.79414785E+02
6	.73865197E+02	.68310608E+02	.42756020E+02	.57201492E+02	.51644843E+02
11	.35089934E+02	.71404662E+03	.71404662E+03	.71404662E+03	.71404662E+03
16	.71404662E+03	.71404662E+03	.71404662E+03	.71404662E+03	.71404662E+03
21	.71404662E+03	.11763680E+01	.11763680E+01	.11763680E+01	.11763680E+01
26	.11763680E+01	.11763680E+01	.11763680E+01	.11763680E+01	.11763680E+01
31	.11763680E+01	.80000000E+01	.80000000E+01	.80000000E+01	.80000000E+01
36	.80000000E+01	.80000000E+01	.80000000E+01	.80000000E+01	.80000000E+01
41	.80000000E+01	.68473970E+03	.73412145E+03	.77950319E+03	.82488493E+03
46	.87026668E+03	.41964842E+03	.96103017E+03	.10064119E+04	.10517937E+04
51	.10471754E+04	.11312117E+04	.72509177E+03	.76842140E+03	.81176143E+03
56	.85510126E+03	.84844104E+03	.94178092E+03	.98912076E+03	.10284600E+04
61	.10718004E+04	.11151402E+04	.11476451E+04	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	0.	0.	0.	0.
166	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.
251	0.	0.	0.	0.	0.
256	0.	0.	0.	0.	0.
261	0.	0.	0.	0.	0.
266	0.	0.	0.	0.	0.
271	0.	0.	0.	0.	0.
276	0.	0.	0.	0.	0.
281	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.
291	0.	.20000000E+02	.40000000E+01	.20000000E+02	.40000000E+01
296	.15977934E+01	.30842677E+01	.62962943E+00	.80000000E+01	.26387740E+02

IT(1) = 507.000 IT(2) = 0.000

YC

1	90997570E+03	90997570E+03	933636344E+03	99208714E+03	10495100E+04
6	11294735E+04	11294735E+04	21999784E+03	21089784E+03	11324734E+03
11	95624446E+03	95624446E+03	95043655E+03	93763827E+03	12436121E+03
16	90466713E+03	90466713E+03	11407853E+04	11407853E+04	11534340E+04
21	11829085E+04	12129669E+04	12575529E+04	12575529E+04	12765145E+03
26	12765145E+03	64535230E+02	33056582E+04	25855447E+01	24040830E+02
31	10932727E+00	51453927E+00	51453927E+00	51453927E+00	51453927E+00

IT(1) = 120.741 IT(2) = 0.000

YC

1	71088623E+03	71088623E+03	74523143E+03	82207760E+03	49792337E+03
6	10054329E+04	10608804E+04	3499403E+03	29454647E+03	15164154E+03
11	95624446E+03	95624446E+03	95043655E+03	93763827E+03	12436121E+03
16	90466713E+03	90466713E+03	11407853E+04	11407853E+04	11534340E+04
21	11829085E+04	12129669E+04	12575529E+04	12575529E+04	12765145E+03
26	12765145E+03	64535230E+02	33056582E+04	25855447E+01	24040830E+02
31	12665510E+00	51453927E+00	51453927E+00	51453927E+00	51453927E+00

IT(1) = 204.762 IT(2) = 0.000

YC

1	75617645E+03	75617645E+03	78948426E+03	86095726E+03	93243020E+03
6	10337415E+04	10720194E+04	31584349E+03	27756505E+03	14294600E+03
11	95624446E+03	95624446E+03	95043655E+03	93763827E+03	12436121E+03
16	90466713E+03	90466713E+03	11407853E+04	11407853E+04	11534340E+04
21	11829085E+04	12129669E+04	12575529E+04	12575529E+04	12765145E+03
26	12765145E+03	64535230E+02	33056582E+04	25855447E+01	24040830E+02
31	12285856E+00	51453927E+00	51453927E+00	51453927E+00	51453927E+00

IT(1) = 296.711 IT(2) = 0.000

YC

1	80142968E+03	80142968E+03	83270135E+03	89980516E+03	96690896E+03
6	10620270E+04	10831494E+04	28172026E+03	26054730E+03	13420761E+03
11	95624446E+03	95624446E+03	95043655E+03	93763827E+03	12436121E+03
16	90466713E+03	90466713E+03	11407853E+04	11407853E+04	11534340E+04
21	11829085E+04	12129669E+04	12575529E+04	12575529E+04	12765145E+03
26	12765145E+03	64535230E+02	33056582E+04	25855447E+01	24040830E+02

OTE DEVICE 1 TYPE A0

TOM	1	.23039924E+03	0.	0.	0.	0.
	6	0.	0.	.28400000E+03	.14250000E+03	0.
	11	0.	0.	0.	0.	.98454333E+00
	16	0.	0.	0.	0.	.10100000E+01
	21	.29880241E+02	.42400000E+03	.28740257E+03	.28740247E+03	.11400000E+02
	26	.23039925E+03	.59696541E+02	.59696541E+02	.59696541E+02	.49880155E+03
	31	.30370925E+02	.39935144E+01	.10500000E+03	.39935144E+01	.30000000E+02
	36	.10915248E+04	.59696541E+05	.24500000E+00	0.	.10213620E+04
	41	.45304759E+01	.28900000E+03	.10900000E+01	.24775545E+03	.11053650E+01
	46	.10213620E+04	.16314163E+04	0.	0.	0.
	51	0.	.32520074E+02	.24775545E+03	.33533143E+00	.60362163E+02
	56	0.	.10000000E+01	.10400000E+03	.39935144E+03	.30000000E+03
	61	.78400000E+00	.33000000E+03	.41000000E+00	0.	.13010000E+01
	66	0.	0.	0.	0.	0.
	71	0.	0.	0.	0.	.13010000E+01
	76	0.	.10000000E+01	.40000000E+04	.00000000E+00	.19000000E+01
	81	0.	0.	0.	0.	.10000000E+00
	86	.25000000E+00	.10000000E+09	.10000000E+01	.10000000E+01	.12500000E+00
	91	.10000000E+01	.50000000E+00	.15000000E+00	0.	0.
	96	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
TST	1	.10500000E+03	.39000000E+03	.10027806E+04	.10399780E+04	.10327806E+04
	6	.10701950E+04	.40175223E+03	.10034809E+04	.10588880E+04	.10949550E+04
	11	0.	0.	0.	0.	0.
	16	0.	.10327806E+04	.10781950E+04	0.	0.
	21	0.	0.	.30000000E+02	.30324995E+02	.16713654E+03
	26	.41074708E+02	.30000000E+02	.30324925E+02	.11103440E+03	.16389910E+02
	31	0.	0.	0.	0.	0.
	36	0.	0.	0.	0.	0.
	41	0.	0.	0.	0.	0.
	46	0.	.60458494E-01	.60458494E-01	.35411042E-03	.65432740E-03
CC1	1	.24310415E+04	.43000000E+03	.37501306E+03	.31194490E+03	.25560192E+03
	6	.22240000E+03	.20540377E+01	.10095000E+03	.17223306E+03	.15550905E+03
	11	.16565000E+03	.01055044E-02	.01055044E-02	.01055044E-02	.01055044E-02
	16	.21499999E-02	.21499999E-02	.21499999E-02	.21499999E-02	.21499999E-02
	21	.21499999E-02	.59540000E+01	.59540000E+01	.59540000E+01	.53647841E+01
	26	.35420531E+01	.35420531E+01	.35420531E+01	.35420531E+01	.35420531E+01
	31	.35420531E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
	36	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
	41	.16000000E+01	.00100497E+03	.01402047E+03	.05420306E+03	.40477900E+03
	46	.10193503E+04	.10519320E+04	.10095000E+04	.11230887E+04	.11576620E+04
	51	.11422390E+04	.12101710E+04	.10540330E+04	.10664445E+04	.10777571E+04
	56	.10000107E+04	.11050535E+04	.11334193E+04	.11617841E+04	.11901504E+04
	61	.12185147E+04	.12400075E+04	.12401508E+04	.23830425E+03	0.
	66	0.	0.	0.	0.	.79935140E+01
	71	0.	0.	0.	0.	0.
	76	.56696541E+02	0.	0.	0.	0.
	81	0.	.16500000E+03	0.	0.	0.
	86	0.	0.	.39000000E+03	0.	0.
	91	0.	0.	0.	.24775545E+03	0.
	96	0.	0.	0.	0.	.10314163E+04
	101	0.	0.	0.	0.	0.
	106	.31017010E+04	0.	0.	0.	0.
	111	0.	.42400000E+00	0.	0.	0.
	116	0.	0.	.40367143E+02	0.	0.
	121	0.	0.	0.	.13012000E+00	0.
	126	0.	0.	0.	0.	.00012401E+03
	131	0.	0.	0.	0.	0.
	136	.13126017E+00	0.	0.	0.	0.
	141	0.	.10100003E+04	0.	0.	0.
	146	0.	0.	0.	0.	0.
	151	0.	0.	0.	0.	0.
	156	0.	0.	0.	0.	0.
	161	0.	0.	0.	0.	0.
	166	0.	0.	0.	0.	0.
	171	0.	0.	0.	0.	0.
	176	0.	0.	0.	0.	0.
	181	0.	0.	0.	0.	0.
	186	0.	0.	0.	0.	0.
	191	0.	0.	0.	0.	0.
	196	0.	0.	0.	0.	0.
	201	0.	0.	0.	0.	0.
	206	0.	0.	0.	0.	0.
	211	0.	0.	0.	0.	0.
	216	0.	0.	0.	0.	0.
	221	0.	0.	0.	0.	0.
	226	0.	0.	0.	0.	0.
	231	0.	0.	0.	0.	0.
	236	0.	0.	0.	0.	0.
	241	0.	0.	0.	0.	0.
	246	0.	0.	0.	0.	0.
	251	0.	0.	0.	0.	0.
	256	0.	0.	0.	0.	0.
	261	0.	.60362143E+02	0.	0.	0.
	266	0.	0.	0.	0.	0.
	271	0.	0.	0.	0.	0.
	276	0.	0.	0.	0.	0.
	281	0.	0.	0.	0.	0.
	286	0.	0.	0.	0.	0.
	291	0.	0.	0.	0.	0.
	296	.20977953E+01	.30531704E+01	.33063366E+00	.10000000E+01	.26387740E+02

ICS					
1	.36405001E+02	.92108001E+02	.94400478E+02	.82908084E+02	.75400262E+02
4	.70417700E+02	.85245400E+02	.84000475E+02	.54400144E+02	.49350222E+02
11	.25741033E+02	0.	.24470926E+04	.44183073E+04	.41472222E+04
16	.39554300E+04	.30442277E+04	.73471497E+04	.30449124E+04	.28146251E+04
21	.26425702E+04	.23720011E+04	.71444004E+03	0.	.30816057E+04
26	.73303730E+04	.84447200E+04	.47787225E+04	.49780303E+04	.43127015E+04
31	.37043200E+04	.31234704E+04	.24444375E+04	.21145030E+04	.10111390E+04
36	0.	.82650113E+02	.84047434E+02	.84744414E+02	.78745842E+02
41	.73350494E+02	.67310715E+02	.42956429E+02	.57047140E+02	.51475000E+02
46	.41410402E+02	.43307071E+01	.39739021E+03	.40444001E+02	.44247243E+02
51	.53707705E+02	.54470744E+02	.10137394E+03	.13416724E+03	.10336244E+03
56	.48110355E+02	.31440317E+03	.25119721E+03	.67814125E+04	.49477404E+04
61	.61307035E+04	.53700114E+04	.44414673E+04	.39730335E+04	.34280010E+04
66	.28053595E+04	.23550021E+04	.14934645E+04	.35530551E+04	.49040317E+04
71	.54754451E+06	.45350417E+04	.72714427E+04	.30084225E+04	.23804670E+04
76	.18955600E+06	.14544034E+04	.10443642E+04	.70721413E+05	.13720850E+05
81	.57248040E+05	.74430424E+05	.84080409E+05	.83170384E+05	.58213582E+05
86	.52171340E+05	.50085501E+05	.44457140E+05	.40444731E+05	.27433510E+05
91	.71473050E+05	.57474174E+05	.44454612E+05	.32083648E+05	.22010012E+05
96	.15405400E+05	.12029077E+05	.94184444E+03	.74127004E+03	.55845330E+03
101	.35714200E+03	.80457340E+02	.47843504E+04	.44443326E+04	.33007817E+04
106	.22063675E+04	.15410271E+04	.12106524E+04	.44436073E+04	.74304064E+04
111	.45492350E+03	.35411414E+03	.70450349E+02	.44433540E+02	.40524044E+02
116	.84474370E+02	.74441474E+02	.71444147E+02	.44431004E+02	.42750020E+02
121	.57201432E+02	.51444443E+02	.74444346E+02	0.	.40537490E+02
126	.40194043E+02	.34402431E+02	.70444111E+02	.39474734E+02	.39271300E+02
131	.30144470E+02	.34045244E+02	.34045244E+02	.40272871E+03	0.
136	.45003625E+04	.70444774E+04	.47044934E+04	.54441474E+04	.40735514E+04
141	.43421500E+04	.30444404E+04	.30444404E+04	.24444474E+04	.17423415E+04
146	0.	.74194031E+04	.44430443E+04	.54476844E+04	.45131402E+04
151	.34511045E+06	.24074444E+04	.22741784E+04	.17478740E+04	.13045605E+04
156	.46054409E+05	0.	.44434010E+05	.40233444E+05	.57377821E+05
161	.52974972E+05	.40400497E+05	.44437145E+05	.41274043E+05	.37520470E+05
166	.33741677E+05	.17570011E+05	0.	.47004124E+04	.34794445E+04
171	.26295000E+04	.10112004E+04	.11411571E+04	.40081294E+03	.70895920E+03
176	.52053014E+03	.41155346E+03	.22157234E+03	0.	.40043004E+04
181	.34955320E+04	.24314774E+04	.10247145E+04	.11787144E+04	.40164140E+03
186	.70103970E+03	.53473414E+03	.34401241E+03	.21734441E+03	0.
191	0.	.40474740E+03	.44437004E+03	.57084200E+03	.44425734E+03
196	.40214403E+03	.32455471E+03	.24414057E+03	.10084447E+03	.13043004E+03
201	.74150655E+02	.25741433E+02	0.	.32734511E+04	.24447801E+04
206	.70914212E+04	.15430292E+04	.11447145E+04	.44435544E+04	.42734132E+04
211	.30444522E+05	.15445444E+05	.44704744E+04	.71444444E+03	0.
216	.44436020E+05	.41501404E+05	.44143422E+04	.27444444E+05	.21440171E+04
221	.14917141E+05	.12544444E+04	.44431144E+04	.57714441E+04	.31267020E+04
226	.14111340E+04	0.	.44435444E+04	.71922744E+04	.40355913E+04
231	.50134049E+04	.41147374E+04	.44432144E+04	.24744444E+04	.21092454E+04
236	.18301930E+04	.10344444E+04	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

CLF1					
1	.36405001E+02	.92108001E+02	.94400478E+02	.82908084E+02	.75400262E+02
4	.70417700E+02	.85245400E+02	.84000475E+02	.54400144E+02	.49350222E+02
11	.25741033E+02	0.	.24470926E+04	.44183073E+04	.41472222E+04
16	.39554300E+04	.30442277E+04	.73471497E+04	.30449124E+04	.28146251E+04
21	.26425702E+04	.23720011E+04	.71444004E+03	0.	.30816057E+04
26	.73303730E+04	.84447200E+04	.47787225E+04	.49780303E+04	.43127015E+04
31	.37043200E+04	.31234704E+04	.24444375E+04	.21145030E+04	.10111390E+04
36	0.	.82650114E+02	.84047434E+02	.84744414E+02	.78745842E+02
41	.73350494E+02	.67310715E+02	.42956429E+02	.57047140E+02	.51475000E+02
46	.41410402E+02	.43307071E+01	.39739021E+03	.40444001E+02	.44247243E+02
51	.53707705E+02	.54470744E+02	.10137394E+03	.13416724E+03	.10336244E+03
56	.48110355E+02	.31440317E+03	.25119721E+03	.67814125E+04	.49477404E+04
61	.61307035E+04	.53700114E+04	.44414673E+04	.39730335E+04	.34280010E+04
66	.28053595E+04	.23550021E+04	.14934645E+04	.35530551E+04	.49040317E+04
71	.54754451E+06	.45350417E+04	.72714427E+04	.30084225E+04	.23804670E+04
76	.18955600E+06	.14544034E+04	.10443642E+04	.70721413E+05	.13720850E+05
81	.57248040E+05	.74430424E+05	.84080409E+05	.83170384E+05	.58213582E+05
86	.52171340E+05	.50085501E+05	.44457140E+05	.40444731E+05	.27433510E+05
91	.71473050E+05	.57474174E+05	.44454612E+05	.32083648E+05	.22010012E+05
96	.73303730E+02	.84447200E+02	.47787225E+02	.49780303E+02	.43127015E+02
101	.36405001E+02	.92108001E+02	.94400478E+02	.82908084E+02	.75400262E+02
106	.70417700E+02	.85245400E+02	.84000475E+02	.54400144E+02	.49350222E+02
111	.25741033E+02	0.	.24470926E+04	.44183073E+04	.41472222E+04
116	.39554300E+04	.30442277E+04	.73471497E+04	.30449124E+04	.28146251E+04
121	.26425702E+04	.23720011E+04	.71444004E+03	0.	.30816057E+04
126	.73303730E+04	.84447200E+04	.47787225E+04	.49780303E+04	.43127015E+04
131	.37043200E+04	.31234704E+04	.24444375E+04	.21145030E+04	.10111390E+04
136	0.	.82650114E+02	.84047434E+02	.84744414E+02	.78745842E+02
141	.73350494E+02	.67310715E+02	.42956429E+02	.57047140E+02	.51475000E+02
146	.41410402E+02	.43307071E+01	.39739021E+03	.40444001E+02	.44247243E+02
151	.53707705E+02	.54470744E+02	.10137394E+03	.13416724E+03	.10336244E+03
156	.48110355E+02	.31440317E+03	.25119721E+03	.67814125E+04	.49477404E+04
161	.61307035E+04	.53700114E+04	.44414673E+04	.39730335E+04	.34280010E+04
166	.28053595E+04	.23550021E+04	.14934645E+04	.35530551E+04	.49040317E+04
171	.54754451E+06	.45350417E+04	.72714427E+04	.30084225E+04	.23804670E+04
176	.18955600E+06	.14544034E+04	.10443642E+04	.70721413E+05	.13720850E+05
181	.57248040E+05	.74430424E+05	.84080409E+05	.83170384E+05	.58213582E+05
186	.52171340E+05	.50085501E+05	.44457140E+05	.40444731E+05	.27433510E+05
191	.71473050E+05	.57474174E+05	.44454612E+05	.32083648E+05	.22010012E+05
196	.73303730E+02	.84447200E+02	.47787225E+02	.49780303E+02	.43127015E+02
201	.36405001E+02	.92108001E+02	.94400478E+02	.82908084E+02	.75400262E+02
206	.70417700E+02	.85245400E+02	.84000475E+02	.54400144E+02	.49350222E+02
211	.25741033E+02	0.	.24470926E+04	.44183073E+04	.41472222E+04
216	.39554300E+04	.30442277E+04	.73471497E+04	.30449124E+04	.28146251E+04
221	.26425702E+04	.23720011E+04	.71444004E+03	0.	.30816057E+04
226	.73303730E+04	.84447200E+04	.47787225E+04	.49780303E+04	.43127015E+04
231	.37043200E+04	.31234704E+04	.24444375E+04	.21145030E+04	.10111390E+04
236	0.	.82650114E+02	.84047434E+02	.84744414E+02	.78745842E+02
241	.73350494E+02	.67310715E+02	.42956429E+02	.57047140E+02	.51475000E+02
246	.41410402E+02	.43307071E+01	.39739021E+03	.40444001E+02	.44247243E+02

106					
1	0.	0.	.409M7670F+03	.3M71479E+06	0.
11	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	.699A7671E+03	.462970H0F+03	.570A4200E+03	.4A425732F+03
166	.40215A43E+03	.32655M71E+03	.25A14057E+03	.190A4457E+03	.130A30H2E+03
171	.75150655E+02	.25741033E+02	0.	.32730511E+00	.268002M1F+06
176	.20916212E+06	.15A30292F+06	.11557145F+00	.80435543E+05	.523A129F+05
181	.30895226E+05	.15A45044E+05	.55764748F+04	.7149A4A9E+03	0.
186	.445M3602E+05	.41501490E+05	.34163A22F+05	.27AAMH94E+05	.21A90171E+05
191	.16912141E+05	.12599434F+05	.A0451190F+04	.5771A401E+04	.31267026E+06
196	.10111396E+04	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.
251	0.	0.	0.	0.	0.
256	0.	0.	0.	0.	0.
261	0.	0.	0.	0.	0.
266	0.	0.	0.	0.	0.
271	0.	0.	0.	0.	0.
276	0.	0.	0.	0.	0.
281	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.
291	0.	0.	0.	0.	0.
296	0.	0.	0.	0.	0.
301	0.	0.	0.	0.	0.
306	0.	0.	0.	0.	0.
311	0.	0.	0.	0.	0.
316	0.	0.	0.	0.	0.
321	0.	0.	0.	0.	0.
326	0.	0.	0.	0.	0.
331	0.	0.	0.	0.	0.
336	.M5147157E+00	.70401432E+00	.73032534E+00	.9552M4A6E+00	.49A20461F+00
341	.57757004E+00	.51191804E+00	.35665701F+00	.67720551E+00	.A2232832F+00
346	0.	0.	0.	0.	0.
351	0.	0.	0.	0.	0.
356	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.
371	0.	0.	0.	0.	0.
376	0.	0.	0.	0.	0.
381	0.	0.	0.	0.	0.
386	0.	0.	0.	0.	0.
391	0.	0.	0.	0.	0.
396	0.	0.	0.	0.	0.

TCs					
1	0.	.20676144E+03	.75511023F+03	.73405349E+03	.49210555F+03
6	.36244230E+03	.34928270E+03	.74839410F+03	.74071278E+03	.22474420F+03
11	.16758638E+03	.39961340E+02	0.	.19773530E+05	.45777230F+05
16	.29420470E+05	.22402527E+05	.14177836F+05	.14557109E+05	.12545410F+05
21	.11850153E+05	.10560854E+05	.52400370F+05	.43841590E+03	0.
26	-.28419455E+05	-.91634123E+05	-.67959370F+05	-.65214394E+05	-.24200143F+05
31	-.2600907E+05	-.14659775E+05	-.16044175F+05	-.12905246E+05	-.74531443F+05
36	-.20425289E+05	-.17014424E+02	.67641622F+03	.70174525F+03	.56247415F+03
41	.40273422E+03	.30823182E+03	.33074468F+03	.25743007E+03	.23713425F+03
46	.18511432E+03	.11324594E+03	.72123699F+03	.42456713E+04	-.14109714F+04
51	-.14645015E+04	-.10295037E+04	-.67468043F+03	-.54740134E+03	-.51317353F+03
56	-.66803031E+03	-.14244374E+04	-.91484419F+03	-.14212523E+04	-.74847455F+05
61	-.05586302E+05	-.55914052E+05	-.34417430F+05	-.24704082E+05	-.23300024F+05
66	-.16766625E+05	-.14527242E+05	-.10152441F+05	-.57315543E+04	.12184198E+06
71	.96687132E+07	.10106702E+08	.59903425F+07	.31334747E+07	.23431442F+07
76	.17629132E+07	.11715754F+07	.94138082F+06	.58902004E+06	.30443474F+06
81	.31749508E+05	.40568730E+06	.54534674F+06	.44544307E+06	.34444147F+06
86	.28972228E+06	.25824044F+06	.21443228F+06	.18554545F+06	.12313710F+06
91	.40805279E+05	.94668801E+03	.24138100F+05	.21054720E+05	.12334610F+05
96	.65009425E+04	.67268447E+04	.72204100F+05	.23514321E+04	.17407146F+05
101	.12629130E+04	.03044344E+03	.44455788F+03	.24888281E+05	.20140722E+05
106	.12003301E+05	.64555728E+04	.47424190F+04	.37571440F+04	.23767100F+04
111	.18057233E+04	.12170234F+04	.62912874F+04	.60340897E+03	.65240801F+03
116	.17629130E+03	.34196825E+03	.70205162F+03	.32784183F+03	.24045342F+03
121	.23601349E+03	.20885074E+03	.13482052F+03	0.	.17740050F+03
126	-.06006176E+03	-.06668064E+03	-.12499354F+04	-.24478344E+03	-.24340445F+03
131	-.06007410E+03	-.19227814E+03	-.19224014F+03	-.14090902E+04	0.
136	-.4375882E+05	-.74246249E+05	-.54703844F+05	-.35844411E+05	-.40236513F+05
141	-.25612302E+05	-.10644054E+05	-.14002209F+05	-.12443307E+05	-.44754127F+05
146	0.	.14034786F+04	.10429225F+04	.04544974E+07	.34344388F+07
151	.28109922E+07	.21314052E+07	.14454240F+07	.11424442E+07	.42344442E+07
156	.34914136E+06	0.	.42544712F+06	.43442437E+04	.45444441F+06
161	.26802301E+06	.23777634F+06	.21442744F+06	.18141447E+04	.14444442F+06
166	.13612524E+06	.64621804E+05	0.	.22743691E+05	.15444442F+06
171	.95030000E+04	.51162031E+04	.34144012F+04	.24726477E+04	.14220337E+04
176	.13065732E+04	.10484134E+04	.40454720F+03	0.	.20110452F+04
181	.14269309E+05	.88595041E+04	.54024254F+04	.34810440E+04	.29445577F+04
186	.19761684E+04	.14333414E+04	.10488173F+04	.00140241E+07	0.
191	0.	.38071470E+04	.34471970F+04	.35444343E+04	.27454341F+04
196	.21512722E+04	.10591671E+04	.12967244F+04	.44744213E+03	.44104442F+03
201	.01133543E+03	.10754774E+03	.14441340F+02	.18241407E+07	.15007442F+07
206	.11394066E+07	.83526802E+06	.59442329F+06	.41444244E+06	.27243452E+06
211	.16502726E+06	.88743444E+05	.72232414F+05	.44444251E+04	.43441440F+04
216	.14269309E+04	-.36658061E+04	-.71414444F+04	-.22442452E+04	-.14457415F+04
221	-.11336475E+06	-.84164404F+05	-.44154941F+05	-.34440514E+05	-.22440101F+05
226	-.96457172E+04	-.20425289E+04	.14427400F+04	.10474237E+04	.47431454F+07
231	.76275280E+07	.30425794F+07	.27445702F+07	.14242352E+07	.13442104F+07
236	.45852241E+06	.43797543E+06	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

TCs					
1	0.	.20676144E+03	.75511023F+03	.73405349E+03	.49210555F+03
6	.36244230E+03	.34928270E+03	.74839410F+03	.74071278E+03	.22474420F+03
11	.16758638E+03	.39961340E+02	0.	.19773530E+05	.45777230F+05
16	.29420470E+05	.22402527E+05	.14177836F+05	.14557109E+05	.12545410F+05
21	.11850153E+05	.10560854E+05	.52400370F+05	.43841590E+03	0.
26	-.28419455E+05	-.91634123E+05	-.67959370F+05	-.65214394E+05	-.24200143F+05
31	-.2600907E+05	-.14659775E+05	-.16044175F+05	-.12905246E+05	-.74531443F+05
36	-.20425289E+05	-.17014424E+02	.67641622F+03	.70174525F+03	.56247415F+03
41	.40273422E+03	.30823182E+03	.33074468F+03	.25743007E+03	.23713425F+03
46	.18511432E+03	.11324594E+03	.72123699F+03	.42456713E+04	-.14109714F+04
51	-.14645015E+04	-.10295037E+04	-.67468043F+03	-.54740134E+03	-.51317353F+03
56	-.66803031E+03	-.14244374E+04	-.91484419F+03	-.14212523E+04	-.74847455F+05
61	-.05586302E+05	-.55914052E+05	-.34417430F+05	-.24704082E+05	-.23300024F+05
66	-.16766625E+05	-.14527242E+05	-.10152441F+05	-.57315543E+04	.12184198E+06
71	.96687132E+07	.10106702E+08	.59903425F+07	.31334747E+07	.23431442F+07
76	.17629132E+07	.11715754F+07	.94138082F+06	.58902004E+06	.30443474F+06
81	.31749508E+05	.40568730E+06	.54534674F+06	.44544307E+06	.34444147F+06
86	.28972228E+06	.25824044F+06	.21443228F+06	.18554545F+06	.12313710F+06
91	.40805279E+05	.94668801E+03	.24138100F+05	.21054720E+05	.12334610F+05
96	.36205162E+03	.32785143E+03	.72204100F+05	.23514321E+04	.17407146F+05
101	.12629130E+03	0.	.44455788F+03	.24888281E+05	.20140722E+05
106	-.12893354E+04	-.24478344F+03	-.24340845F+03	.37571440F+04	.23767100F+04
111	-.19224014E+03	-.10490902E+04	0.	.60340897E+03	.65240801F+03
116	-.56703886E+05	-.35844411E+05	-.74093451F+05	-.12443307E+05	.24045342F+03
121	-.16002209E+05	-.12644330F+05	-.68758127F+04	0.	.17740050F+03
126	.14269309E+04	.04544974E+07	.34034433F+07	.24109442E+07	.42344442E+07
131	.14455260E+07	.11628842E+07	.82389708F+04	.34916134E+06	.23777430F+06
136	.42544712E+06	.43662437E+06	.74444409F+06	.24888281E+06	.49421408F+06
141	.21492340E+06	.18141447E+06	.14403825F+06	.13412524E+06	0.
146	0.	0.	0.	0.	0.

70	0.	0.	0.	0.	0.
01	0.	0.	0.	0.	0.
06	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	0.	0.	0.	0.
166	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.
251	0.	0.	0.	0.	0.
256	0.	0.	0.	0.	0.
261	0.	0.	0.	0.	0.
266	0.	0.	0.	0.	0.
271	0.	0.	0.	0.	0.
276	0.	0.	0.	0.	0.
281	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.
291	0.	0.	0.	0.	0.
296	0.	0.	0.	0.	0.
301	0.	0.	0.	0.	0.
306	0.	0.	0.	0.	0.
311	0.	0.	0.	0.	0.
316	0.	0.	0.	0.	0.
321	0.	0.	0.	0.	0.
326	0.	0.	0.	0.	0.
331	0.	0.	0.	0.	0.
336	0.	0.	0.	0.	0.
341	0.	0.	0.	0.	0.
346	0.	0.	0.	0.	0.
351	0.	0.	0.	0.	0.
356	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.
371	0.	0.	0.	0.	0.
376	0.	0.	0.	0.	0.
381	0.	0.	0.	0.	0.
386	0.	0.	0.	0.	0.
391	0.	0.	0.	0.	0.
396	0.	0.	0.	0.	0.

CASE NO. 1

	WT-L1/AV	W/C-L1/CF	AFPA-SF/AV	VC(LP)	XCC(FS)	YCG(ST)	XCG(ST)
TOTAL L. EDGE STRUCTURES	1500.75	4.441	315.164	455.60	899.56	467.78	63.62
FIXED TRAILING EDGES	1500.75	4.441	315.164	455.60	899.56	467.78	63.62
TOTAL T. EDGE STRUCTURES	2825.61	5.277	1105.190	611.65	1058.70	493.71	-96.51
FIXED TRAILING EDGES	1500.75	5.157	506.927	373.62	1052.98	448.52	-90.75
***DEV 1. /SPOILERS/**	476.80	3.594	115.393	247.76	1031.42	332.76	-140.17
***DEV 2. /SPOILERS/**	241.50	3.443	65.018	529.56	1103.49	619.66	-92.24
***DEV 3. /S-S FLAPS/**	1819.65	6.171	332.459	246.56	1010.41	323.18	-121.44
***DEV 4. /S-S FLAPS/**	795.31	4.113	150.111	529.01	1061.22	614.94	-80.91
***DEV 6. /AILERONS/**	743.27	4.724	157.555	110.54	1149.25	915.38	-66.30

L.L. STRUCTURE

STA	SHEAR	6-MOM	T-MOM	SHEAR	6-MOM	T-MOM
1	663.0	26802.6	41507.6	2517.9	1177949.0	-277289.6
2	576.9	20324.0	34164.3	2765.5	899552.1	-260994.9
3	444.2	158302.9	27664.6	2212.3	659490.4	-189357.4
4	402.2	115571.6	21695.7	1715.4	471340.4	-132409.0
5	326.6	80435.7	16910.6	1245.0	327090.5	-92451.7
6	256.1	52391.5	12565.8	1021.0	214528.6	-69507.3
7	190.8	30845.4	8695.4	740.6	129731.6	-47613.1
8	130.8	15465.2	5771.8	513.0	70659.6	-31500.2
9	75.2	5576.5	3126.8	327.2	30201.4	-18174.5
10	25.8	717.0	1011.2	153.1	7141.5	-1324.4
11	0.0	0.0	0.0	34.6	392.9	-1136.4

CASE NO 1
C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT
C 141 TEST CASE ---NO. 1 ---
AUGUST 1973
** WLETE - IP(12) **

TRAILING EDGE DEVICE COMPONENT SUMMARY

NOTE DEV 3. /S-S FLAPS/**	WT-LR/AV	W/S-LB/SF	AREA-SF/AV	YCG(IPP)	XCG(FS)	YCG(ST)	XCG(ST)
/PANELS /	1619.43	4.871	332.455	246.56	1010.41	323.18	-121.44
/SUPPORTS /	1165.99	3.507	332.459	246.56	1024.50	328.87	-134.33
	453.44	1.364	332.459	246.56	974.18	308.54	-88.30

NOTE DEV 4. /S-S FLAPS/**	WT-LR/AV	W/S-LB/SF	AREA-SF/AV	YCG(IPP)	XCG(FS)	YCG(ST)	XCG(ST)
/PANELS /	795.31	4.163	190.111	529.81	1091.22	614.94	-80.91
/SUPPORTS /	572.63	3.012	190.111	529.81	1098.99	618.08	-88.02
	222.69	1.171	190.111	529.81	1071.24	606.87	-62.64

NOTE DEV 6. /AILERONS-/**	WT-LR/AV	W/S-LB/SF	AREA-SF/AV	YCG(IPP)	XCG(FS)	YCG(ST)	XCG(ST)
/PANELS /	743.27	4.724	157.355	810.54	1199.25	915.38	-66.30
/SUPPORTS /	668.94	4.251	157.355	810.54	1201.50	916.29	-68.36
	74.33	0.472	157.355	810.54	1178.98	907.19	-47.76

•• C1012 (CALLED FROM) 'ISCN' - IP(15) •

YC	11(1) = 937.634	11(2) = 0.000	
1	.11312117E+04	.11476451E+04	.12181719E+04
6	.12661568E+04	.13694513E+03	.70526744E+02
11	.95624446E+03	.95043655E+03	.92436121E+03
16	.90466713E+03	.11407853E+04	.11539340E+04
21	.11829085E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.33056582E+04	.13794573E+02
31	.10073066E+00	.51453927E+00	.51453927E+00

YC	11(1) = 959.649	11(2) = 0.000	
1	.11425373E+04	.11584611E+04	.12264009E+04
6	.12752359E+04	.13269861E+03	.64334743E+02
11	.95624446E+03	.95043655E+03	.92436121E+03
16	.90466713E+03	.11407853E+04	.11539340E+04
21	.11829085E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.33056582E+04	.13794573E+02
31	.10000139E+00	.51453927E+00	.51453927E+00

YC	11(1) = 947.370	11(2) = 0.000	
1	.11362190E+04	.11524271E+04	.12219870E+04
6	.12712866E+04	.13506764E+03	.69559837E+02
11	.95624446E+03	.95043655E+03	.92436121E+03
16	.90466713E+03	.11407853E+04	.11539340E+04
21	.11829085E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.33056582E+04	.13562667E+02
31	.10041389E+00	.51453927E+00	.51453927E+00

••• (E11d1 - 1005) •••

*****DISCONTINUOUS*****

REF ID: A65 001 001-10/00

153

• 19942554E • 02
• 11423571E • 04
• 13321243E • 05
•

• 20010120E+02
- 1513505F+02
0.
0.

510 3235600000
1110 3235611100

46730457E003
10273132E004

• 12.315205+16
• 24450705+15

151

•22011044E+02
•11A29045E+04
•1394513E+03
•1154611E+04
•13269461E+03
•16545/47E+02
•10525145E+02
•95304120E+73
•12048806E+04
•13600639E+03

0.4449552E+01
0.1214177E+04
0.70520744E+02
0.11926310E+04
0.13299841E+03
0.1098992E+01
0.9417373E+01
0.12016313E+04
0.95703827E+03
0.13388514E+03

• 113121175+04
• 125415695+04
• 169730665+06
• 122680095+04
• 143397435+02
• 122065055+01
• 973159975+01
• 120612395+04
• 947359875+03
• 135626075+02

11312117F+04
12681568F+04
11425373E+04
12752354E+04
10000135E+00
94244304E+00
12274464F+02
11906443E+04
6275111E+00
12637036E+02

114764515404
113444513404
11425373404
112752346404
11672070404
54134646404
34225450404
12437520404
4671315404
11440610404

***PRTH SUDR -- DATA=CCI ARRAY. CALC DATA=ICS. TST. TIM APRV5000

00 PH1 - IP1,1)

CCI	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	0.	0.	0.	0.	0.	0.	0
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000PRTX SUHR == DATA=CCI ARNAV. CALC DATA=TCS. TST. TSH ARNAV5000

00 001 - 127.11 0

00151. LINE ITEMS. 1ST.104.105(1-143). STA 1 LINE 3

TST	1	6	11	16	21	26	31	36	41	46
1	.27011044E+02	.40449592E+00	.11312117E+04	.11312117E+04	.11312117E+04	.11312117E+04	.11312117E+04	.11312117E+04	.11312117E+04	.11312117E+04
6	.11029774E+04	.12181714E+04	.12681568E+04	.12681568E+04	.12681568E+04	.12681568E+04	.12681568E+04	.12681568E+04	.12681568E+04	.12681568E+04
11	.13694513E+03	.70526744E+02	.10073066E+01	.11425373E+04	.11425373E+04	.11425373E+04	.11425373E+04	.11425373E+04	.11425373E+04	.11425373E+04
16	.11504611E+04	.11926310E+04	.12268009E+04	.12752359E+04	.12752359E+04	.12752359E+04	.12752359E+04	.12752359E+04	.12752359E+04	.12752359E+04
21	.13269861E+03	.13269861E+03	.48339783E+02	.10000139E+00	.10000139E+00	.10000139E+00	.10000139E+00	.10000139E+00	.10000139E+00	.10000139E+00
26	-.16545787E+02	.10998844E+01	.12204405E+01	.46244346E+00	.46244346E+00	.46244346E+00	.46244346E+00	.46244346E+00	.46244346E+00	.46244346E+00
31	.10525185E+02	.94173134E+01	.97315447E+01	0.	0.	0.	0.	0.	0.	0.
36	0.	.10386247E+04	0.	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02
41	.22949703E+02	0.	.38433372E+03	.28724465E+02	.28724465E+02	.28724465E+02	.28724465E+02	.28724465E+02	.28724465E+02	.28724465E+02
46	.78419737E+00	.13593647E+02	.73718477E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02	-.34424474E+02
TSH	1	6	11	16	21	26	31	36	41	46
1	.10250351E+04	.10250351E+04	.14533846E+04	.21454134E+00	.21454134E+00	.21454134E+00	.21454134E+00	.21454134E+00	.21454134E+00	.21454134E+00
6	.16827416E+00	-.35243046E+02	-.35243046E+02	-.37441242E+02	-.37441242E+02	-.37441242E+02	-.37441242E+02	-.37441242E+02	-.37441242E+02	-.37441242E+02
11	-.13632543E-02	.32418742E+03	-.4642478E+03	.40000000E+00	.40000000E+00	.40000000E+00	.40000000E+00	.40000000E+00	.40000000E+00	.40000000E+00
16	.25000000E+00	.60052000E+01	.47200000E+03	.34875043E+01	.34875043E+01	.34875043E+01	.34875043E+01	.34875043E+01	.34875043E+01	.34875043E+01
21	.77259654E+01	.71681000E+00	.11316052E+04	0.	0.	0.	0.	0.	0.	0.
26	.36379788E-11	-.27050414E+01	.10250351E+04	.10250351E+04	.10250351E+04	.10250351E+04	.10250351E+04	.10250351E+04	.10250351E+04	.10250351E+04
31	.10250351E+04	.93763077E+03	.92754404E+03	.95044491E+03	.95044491E+03	.95044491E+03	.95044491E+03	.95044491E+03	.95044491E+03	.95044491E+03
36	.11474451E+04	.11424045E+04	.12181714E+04	.70426744E+02	.70426744E+02	.70426744E+02	.70426744E+02	.70426744E+02	.70426744E+02	.70426744E+02
41	.11534300E+04	.11424045E+04	.12124066E+04	.64535230E+02	.64535230E+02	.64535230E+02	.64535230E+02	.64535230E+02	.64535230E+02	.64535230E+02
46	.95043655E+03	.93763077E+03	.92434121E+03	.47444473E+01	.47444473E+01	.47444473E+01	.47444473E+01	.47444473E+01	.47444473E+01	.47444473E+01
51	.01485919E+01	0.	0.	.10144472E+04	.10144472E+04	.10144472E+04	.10144472E+04	.10144472E+04	.10144472E+04	.10144472E+04
56	0.	.12294042E+04	0.	0.	0.	0.	0.	0.	0.	0.
61	.11752158E+04	0.	.12474920E+04	0.	0.	0.	0.	0.	0.	0.
66	0.	0.	0.	.22514004E+00	.22514004E+00	.22514004E+00	.22514004E+00	.22514004E+00	.22514004E+00	.22514004E+00
71	0.	.16303471E+03	-.16502736E+02	0.	0.	0.	0.	0.	0.	0.
76	.67304663E+00	0.	.21454139E+00	0.	0.	0.	0.	0.	0.	0.
81	0.	.10250351E+04	0.	-.52003114E+02	-.52003114E+02	-.52003114E+02	-.52003114E+02	-.52003114E+02	-.52003114E+02	-.52003114E+02
86	-.35243046E+02	0.	0.	.71441600E+00	.71441600E+00	.71441600E+00	.71441600E+00	.71441600E+00	.71441600E+00	.71441600E+00
91	.17427400E+00	0.	.44000000E+03	0.	0.	0.	0.	0.	0.	0.
96	0.	.1117221-E+04	0.	.12250346E+04	.12250346E+04	.12250346E+04	.12250346E+04	.12250346E+04	.12250346E+04	.12250346E+04
TCS	1	6	11	16	21	26	31	36	41	46
1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
11	.25305605E+02	0.	0.	0.	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
21	0.	.4192031-E+03	0.	0.	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
31	0.	0.	-.48452808E+03	0.	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
41	0.	0.	0.	.25365605E+02	.25365605E+02	.25365605E+02	.25365605E+02	.25365605E+02	.25365605E+02	.25365605E+02
46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
66	-.48452808E+03	0.	0.	0.	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
76	0.	.34044445E+05	0.	0.	0.	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
86	0.	0.	.20492847E+05	0.	0.	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
96	0.	0.	.10042555E+02	0.	0.	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
131	.49317170E+05	0.	0.	0.	0.	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	.21216911E+05	0.	0.	0.	0.	0.	0.	0.	0.

TCS					
1	.4282844E+02	.1459111E+03	.1377544E+03	.1154008E+03	.1004546E+03
6	.8530244E+02	.7014404E+02	.5463344E+02	.3974421E+02	.1424145E+02
11	.2536505E+02	.6294347E+04	.4912412E+04	.6182127E+04	.4451430E+04
16	.4721158E+04	.3990677E+04	.3260124E+04	.2527424E+04	.1744422E+04
21	.6658801E+03	.4192033E+03	.4124653E+04	.1211107E+04	.1004705E+04
26	.8254465E+04	.6545404E+04	.5107570E+04	.3705232E+04	.2444455E+04
31	.1693291E+04	.7435904E+03	.4445280E+03	.1741504E+02	.1535171E+04
36	.1383688E+03	.1232213E+03	.1040749E+03	.4202447E+02	.7774444E+02
41	.6263539E+02	.4744972E+02	.2917440E+02	.3474474E+02	.4444440E+03
46	.1951362E+03	.1920711E+03	.1445910E+03	.1444052E+03	.1704467E+04
51	.1746000E+03	.1644457E+03	.1444415E+03	.2794710E+03	.2473414E+03
56	.1188951E+04	.1319043E+05	.1108903E+05	.4142703E+04	.7411740E+04
61	.5036231E+04	.4436104E+04	.3210437E+04	.2144347E+04	.1144374E+04
66	.8151040E+03	.1065077E+04	.1140374E+07	.8944440E+04	.4443444E+04
71	.5112742E+06	.3086547E+06	.2543949E+06	.1444142E+06	.4444477E+06
76	.4717111E+05	.5139104E+05	.2422394E+05	.1244434E+06	.1113441E+06
81	.9853197E+05	.8591034E+05	.7344701E+05	.6127447E+05	.6419177E+05
86	.3723825E+05	.2004444E+05	.2541941E+05	.1545122E+03	.1346717E+04
91	.1222936E+03	.1074154E+03	.9343733E+02	.7914915E+02	.4477744E+02
96	.5035437E+02	.3593064E+02	.3974494E+02	.4444444E+02	.4444444E+02
101	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
106	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
111	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
116	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
121	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
126	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
131	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
136	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
141	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
146	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
151	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
156	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
161	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
166	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
171	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
176	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
181	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
186	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
191	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
196	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
201	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
206	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
211	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
216	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
221	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
226	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
231	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
236	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
241	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
246	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03	.1056733E+03
CCI					
169	.4804425E+03	.7401137E+03	.4422025E+03	.5114435E+03	.3944434E+03
174	.2953821E+03	.2100744E+03	.1399300E+03	.8404442E+02	.4520714E+02
179	.2536505E+02	.3442244E+06	.2414440E+06	.1431040E+04	.1374115E+04
184	.9399344E+05	.6079104E+05	.3454510E+05	.1979244E+05	.4072444E+05
189	.2919342E+04	.4142033E+03	.5947032E+05	.5144447E+05	.1443474E+05
194	.2933873E+05	.2100273E+05	.1444497E+05	.9777340E+04	.4544214E+05
199	.2925410E+04	.1237114E+04	.4445280E+03	.4445280E+03	.4445280E+03

COL SURH--TGR AND TCS ARWAYS

** COL - (P/14) *

TCS					
1	.92020044E+02	.14591114E+03	.13075844E+03	.11540000E+03	.10045444E+03
6	.85302444E+02	.70144444E+02	.54903642E+02	.39744241E+02	.19445544E+02
11	.25345645E+02	.82444444E+02	.49124124E+02	.41221274E+02	.44514434E+02
16	.47211583E+02	.34406734E+02	.34401242E+02	.24276244E+02	.17946223E+02
21	.465444014E+03	.41920314E+03	.41234534E+02	.12111074E+03	.10047047E+03
26	.82544444E+04	.65453014E+04	.51074704E+04	.37942424E+04	.26547554E+04
31	.16332914E+04	.74349044E+03	.44442404E+03	.13415047E+03	.15341714E+03
36	.13636842E+03	.12322174E+03	.14407444E+03	.42244471E+03	.77744442E+03
41	.62635342E+02	.47444742E+02	.24174444E+02	.34344744E+02	.44444444E+02
46	.19513420E+03	.14207114E+03	.14444444E+03	.14444444E+03	.17944472E+03
51	.17444444E+03	.14444444E+03	.14444444E+03	.27947147E+03	.44734144E+03
56	.11844444E+04	.14444444E+04	.14444444E+04	.91427034E+04	.74114444E+04
61	.58302312E+04	.44444444E+04	.72104374E+04	.21444474E+04	.11444474E+04
66	.81510444E+03	.10450774E+04	.11444444E+04	.44444444E+04	.44444444E+04
71	.51127420E+06	.30444444E+06	.24444444E+06	.14444444E+06	.44444444E+06
76	.47171144E+05	.51391044E+05	.24223444E+05	.12444444E+05	.11137917E+05
81	.44531977E+05	.44591644E+05	.73450714E+05	.61274444E+05	.44444444E+05
86	.37234254E+05	.20044444E+05	.25414444E+05	.14444444E+05	.13444444E+05
91	.67624444E+04	.13984444E+04	.44414444E+04	.74144444E+04	.44777444E+04
96	.50354370E+02	.35930444E+02	.30744444E+02	.44444444E+02	.44444444E+02
101	.87444444E+05	.47474244E+05	.44444444E+05	.94111444E+05	.10447344E+05
106	.10580027E+03	.10603743E+03	.14403743E+03	.44444444E+03	.44444444E+03
111	.14193114E+05	.12094444E+05	.10444444E+05	.12711744E+05	.43054444E+05
116	.50007444E+04	.30454444E+04	.24444444E+04	.15424444E+04	.13701444E+04
121	.0.	.13544444E+07	.12444444E+04	.24444444E+04	.12331124E+04
126	.22367474E+04	.32434444E+06	.21433444E+04	.13374444E+04	.73244444E+04
131	.76274044E+05	.0.	.14227444E+06	.14444444E+06	.74342444E+06
136	.26850500E+08	.71064444E+08	.52144444E+05	.42444444E+05	.32972444E+05
141	.23495744E+05	.32744444E+05	.0.	.74444444E+04	.31144444E+03
146	.14704444E+03	.44444444E+02	.27347211E+08	.47444444E+07	.27347211E+08
151	.28500000E+03	.74754374E+03	.44444444E+02	.24444444E+03	.13452444E+03
156	.74044444E+04	.50247444E+03	.13734744E+03	.81444444E+02	.27347211E+08
161	.47024444E+07	.27387211E+08	.44444444E+03	.83444444E+03	.41000000E+02
166	.46734344E+03	.12444444E+03	.0.	.0.	.0.
171	.0.	.0.	.0.	.0.	.0.
176	.0.	.0.	.0.	.0.	.0.
181	.0.	.0.	.0.	.0.	.0.
186	.0.	.0.	.0.	.0.	.0.
191	.0.	.0.	.0.	.0.	.0.
196	.0.	.0.	.0.	.0.	.0.
201	.0.	.0.	.0.	.0.	.0.
206	.0.	.0.	.0.	.0.	.0.
211	.0.	.0.	.0.	.0.	.0.
216	.0.	.0.	.0.	.0.	.0.
221	.0.	.0.	.0.	.0.	.0.
226	.0.	.0.	.0.	.0.	.0.
231	.0.	.0.	.0.	.0.	.0.
236	.28464000E+02	.0.	.14444444E+01	.14444444E+01	.28464000E+02
241	.0.	.0.	.0.	.0.	.0.
246	.0.	.44444444E+03	.14444444E+01	.14741571E+02	.10744444E+04
TGR					
1	.0.	.0.	.0.	.0.	.0.
6	.0.	.0.	.0.	.0.	.0.
11	.0.	.0.	.0.	.0.	.0.
16	.27387211E+08	.47024000E+07	.74444444E+04	.54247444E+03	.13734716E+03
21	.41000000E+02	.44738444E+03	.27347211E+08	.44444444E+03	.43444444E+03
26	.0.	.0.	.12543244E+03	.0.	.0.
31	.0.	.0.	.0.	.0.	.0.
36	.0.	.0.	.0.	.0.	.0.
41	.0.	.0.	.0.	.0.	.0.
46	.0.	.0.	.0.	.0.	.0.
51	.0.	.0.	.0.	.0.	.0.
56	.0.	.0.	.0.	.0.	.0.
61	.75000000E+00	.75000000E+00	.75000000E+00	.10000000E+01	.47193124E+03
66	.10000000E+01	.65064444E+03	.74000000E+02	.70000000E+02	.75000000E+00
71	.10000000E+03	.74000000E+02	.14444444E+03	.44334141E+02	.70000000E+02
76	.10000000E+01	.0.	.44444444E+00	.0.	.0.
81	.16323744E+00	.83471024E+00	.44194444E+02	.73417741E+02	.12472544E+03
86	.65174444E+04	.95004314E+05	.14374104E+03	.93744774E+04	.14577194E+02
91	.22584477E+04	.54010444E+08	.10000000E+01	.0.	.0.
96	.0.	.90004444E+03	.25000000E+01	.15000000E+01	.37500000E+01

CM11					
1	0.	.42822844E+02	.14541116F+03	.13075494E+03	.11540064E+03
6	.10045463E+03	.85302440E+02	.70140405E+02	.54947062E+02	.34754261E+02
11	.19041554E+02	.25345015E+02	0.	.42943407E+04	.49120120E+04
16	.61021274E+04	.54516430E+04	.47211543F+04	.39406734E+04	.32401242E+04
21	.25276246E+04	.17040273E+04	.445444014F+03	.41020330E+03	0.
26	.81234535E+04	.12111070E+05	.10047047F+05	.82546464E+04	.44553034E+04
31	.51075705E+04	.37452474E+04	.24947544F+04	.14032414E+04	.74354080E+03
36	.48032004E+03	.13415047E+02	.1341710F+03	.13434442E+03	.12322130E+03
41	.10007446E+03	.92424471E+02	.77744492F+02	.62434302E+02	.47447442E+02
46	.29178404E+02	.34344744E+02	.54405404F+03	.19417020E+03	.19207114F+03
51	.14059103E+03	.14440520E+03	.17349472F+03	.17440044E+03	.14444471E+03
56	.16044154E+03	.2744714F+03	.24744143F+03	.11444412F+04	.13144434E+05
61	.11040003E+05	.41427033E+04	.74117407F+04	.5442312E+04	.44361094E+04
66	.32104370E+04	.21543474E+04	.11443747F+04	.81510441E+03	.10450774E+04
71	.11403799E+07	.44405491E+06	.44534242F+06	.51127420E+04	.34444473F+04
76	.25439441E+06	.14541471E+06	.94444772F+05	.47171110E+05	.51391004E+05
81	.26223444E+05	.12444344E+06	.11137417F+06	.44431477E+05	.44414440E+05
86	.73507019E+05	.61274072E+05	.44141774F+05	.37238244E+05	.20044444E+04
91	.25019413E+05	.15051222E+03	.14041412F+04	.67424041E+04	.13944511E+04
96	.66110017E+04	.74154141E+02	.44177043F+02	.54344370E+02	.35434444E+02
101	.39744444E+02	0.	.42424092F+02	.47444415E+05	.47474242E+05
106	.4400043E+05	.44111400E+05	.14507334E+03	.14440027E+03	.14443753F+03
111	.10003753E+03	.46354504E+03	0.	.14193114E+04	.12044425F+04
116	.10052401E+07	.12711705E+06	.44454444E+06	.50007404E+04	.34453910E+04
121	.25434247E+04	.15824044E+04	.14201447F+04	0.	.13544444E+07
126	.32445441E+04	.24839545E+09	.12331123F+04	.22447474E+04	.32444470E+04
131	.21433052E+04	.13372041E+06	.74245492F+05	.74274044E+05	0.
136	.10227410E+06	.19514113E+08	.74242992F+04	.20445000E+08	.71444529F+04
141	.52189401E+05	.42501030E+05	.32912747F+05	.24405744E+04	.32704401E+05
146	0.	.14942544E+02	.10000000F+01	.44000000E+03	0.

TVMT					
1	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.
11	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	0.	0.	0.	0.
166	.78080000E+04	.31154472E+03	.14704435F+03	.83000000E+02	.27347211F+04
171	.44724000E+07	.27387211E+08	.74500000E+03	.74754374E+03	.43000000E+02
176	.25214202E+03	.13452897E+03	.74000000E+04	.50247070E+03	.13734210E+03
181	.81000000E+02	.27387211E+08	.47424000E+07	.27347211E+08	.44000000F+03
186	.83450900E+03	.81000000E+02	.44738354F+03	.12443205E+03	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

• (511) 61 - (211) 4004 (377) 2100 •

$$\pi(1) = 14.00^\circ \quad \pi(2) = 403.19^\circ$$
[illegible]
$$TT(1) = 98.700 \quad TT(2) = 912.342$$
[illegible]
$$TT(1) = 119.400 \quad TT(2) = 421.485$$
[illegible]
$$11(1) = 140.160 \quad 11(2) = 439.624$$
[illegible]

ICS	00	00	00	00	00
1	00	00	00	00	00
11	00	00	00	00	00
10	00	00	00	00	00
21	00	00	00	00	00
20	00	00	00	00	00
31	00	00	00	00	00
30	00	00	00	00	00
41	00	00	00	00	00
40	00	00	00	00	00
51	00	00	00	00	00
50	00	00	00	00	00
61	00	00	00	00	00
60	00	00	00	00	00
71	00	00	00	00	00
70	00	00	00	00	00
81	00	00	00	00	00
80	00	00	00	00	00
91	00	00	00	00	00
90	00	00	00	00	00
101	00	00	00	00	00
100	00	00	00	00	00
111	00	00	00	00	00
110	00	00	00	00	00
121	00	00	00	00	00
120	00	00	00	00	00
131	00	00	00	00	00
130	00	00	00	00	00
141	00	00	00	00	00
140	00	00	00	00	00
151	00	00	00	00	00
150	00	00	00	00	00
161	00	00	00	00	00
160	00	00	00	00	00
171	00	00	00	00	00
170	00	00	00	00	00
181	00	00	00	00	00
180	00	00	00	00	00
191	00	00	00	00	00
190	00	00	00	00	00
201	00	00	00	00	00
200	00	00	00	00	00
211	00	00	00	00	00
210	00	00	00	00	00
221	00	00	00	00	00
220	00	00	00	00	00
231	00	00	00	00	00
230	00	00	00	00	00
241	00	00	00	00	00
240	00	00	00	00	00
251	00	00	00	00	00
250	00	00	00	00	00
261	00	00	00	00	00
260	00	00	00	00	00
271	00	00	00	00	00
270	00	00	00	00	00
281	00	00	00	00	00
280	00	00	00	00	00
291	00	00	00	00	00
290	00	00	00	00	00

[illegible]

CELL	YIM (HP)	YOM (HP)	YIM (SI)	YOM (ST)	YCG (HP)	YCG (FS)	YCG (ST)
1	7A.00	285.00	85.27	311.56	173.05	846.53	189.72
2	415.00	948.00	453.64	1036.36	628.64	1047.36	687.63

CELL	TOTAL	CAPACITY	FUEL/SYS	REOR/FL
1	34569.9	34160.0	409.9	34160.0
2	24601.7	24310.0	291.7	24310.0

FUEL CELL DISTRIBUTIONS

FUEL CELL DISTRIBUTIONS

FUEL CELL STATION AND WEIGHT/INCH DATA

CELL	1	2	3	4	5	6	7	8	9	10	11
Y (HP)	76.00	98.70	119.40	140.10	160.80	181.50	202.20	222.90	243.60	264.30	285.00
Y (FS)	85.27	107.90	130.53	153.16	175.79	198.42	221.05	243.68	266.31	288.94	311.56
Y (BP)	415.00	468.30	521.60	574.90	628.20	681.50	734.80	788.10	841.40	894.70	948.00
SECT	1	2	3	4	5	6	7	8	9	10	11
LA/IN	189.990	182.359	174.865	167.508	160.288	153.145	146.121	139.237	132.402	125.841	119.285
Y (ST)	453.68	511.95	570.22	628.49	686.75	745.02	803.29	861.56	919.83	978.09	1036.36
X (FS)	952.05	975.60	999.14	1022.68	1046.23	1069.77	1093.31	1116.86	1140.40	1163.94	1187.49
LA/IN	71.888	63.455	57.437	51.717	46.295	41.172	36.347	31.820	27.591	23.650	20.029

TOTAL FUEL PLUS FUEL SYSTEM 1-G LOADS

STA	1	2	3	4	5	6	7	8	9	10	11
SHEAR	59171.6	42521.3	28790.0	24601.7	23253.9	17204.0	12426.8	8150.1	4664.7	1890.8	0.0
H. MOM	18449306.3	13567412.6	10152518.7	7710938.9	5348659.8	3389550.6	1965634.1	989980.8	383687.2	75456.9	0.0
T. MOM	-63442.6	-42223.8	-25731.3	-20913.4	-19536.9	-13620.9	-9292.3	-5722.8	-3071.7	-1167.0	0.0
SHEAR	24601.7	24601.7	24601.7	24601.7	23253.9	17204.0	12426.8	8150.1	4664.7	1890.8	0.0
H. MOM	14827215.1	12455123.1	10083031.0	7710938.9	5348659.8	3389550.6	1965634.1	989980.8	383687.2	75456.9	0.0
T. MOM	-20913.4	-20913.4	-20913.4	-20913.4	-19536.9	-13620.9	-9292.3	-5722.8	-3071.7	-1167.0	0.0

CASE 1 --TUMORIE-HOX MATERIAL DATA. MATL NO. 6-- ** ATLPW - IP(19)

7075-16511 AL EXTHU. 3.0 TO 4.0 IN. MIL-MDRK-5 A DATA EST.
 REF. TABLE 3-2.7.0(F) PAGE 340 7-26-72

TEMP.= 40.00 DENSITY= .1010 MW= .3300

	A	F	E	E(RT)	G(RT)
COMPRESSION	.26312595E-10	.27494493E-03	10500000.3	10500000.0	3900000.0
TENSION	.26312595E-10	.27494493E-03	10500000.3		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.005143	.008286	5400.0	59100.0	62300.0	64450.0	66000.0
TENSION	.005143	.008286	5400.0	59100.0	62300.0	64450.0	66000.0

FTU= 81000.0 PSU= 45000.0 FWHU= 97000.0

FTMAX(ALLUM)--M1/2= .293 FTU FTMAX(ALIOW)--STA 2= .324 FTU

CASE 1

BASIC LIMIT AIRLOAD DATA

** ALOAD - IP(27) *

DGMW= 316100.0 *NZ= 2.500 -NZ= 1.000

STA	V(LIM)	M(LIM)	T(LIM)	V(LIM)	M(LIM)	T(LIM)
1	37042.8	158132727.8	-8245457.6	-185547.6	-61761030.3	-4334855.2
2	326989.2	124261996.3	-6499172.4	-154463.9	-45193596.4	-4453167.2
3	283161.9	94630052.5	-5814726.1	-126993.9	-31472757.8	-4565167.8
4	239356.3	69253995.1	-4703304.4	-86570.4	-22407303.2	-2248395.5
5	196147.4	48103793.2	-3478405.8	-82199.8	-14144319.0	-2392868.2
6	154039.2	31097010.0	-2749290.3	-48325.9	-9149926.6	-47970.5
7	113527.1	18102673.7	-1922292.1	-33561.6	-5185237.6	-21468.5
8	75692.5	8913238.6	-1212004.2	-21373.6	-2423080.2	-8886.8
9	41825.0	3206012.2	-631780.0	-11610.6	-923262.9	-4372.9
10	13288.1	529448.5	-149215.2	-4170.7	-157883.1	-2102.4
11	935.6	11361.4	-12488.8	-361.8	-2942.3	2617.4

TT

1	.60000000E+01	.80000000E+02	.26312595E-10	.27494493E-03	.10500000E+08
6	.51428570E-02	.59285712E-02	.67142855E-02	.74999997E-02	.82857140E-02
11	.54000000E+05	.59100000E+05	.62300000E+05	.64450000E+05	.66000000E+05
16	.45238093E-07	.19999999E-02	.13619047E-02	.15500000E+04	.82953034E+07
21	.20997113E+00	-.27056418E+01	-.16339003E+04	.35830265E+04	.60000000E+01

LOADS SCALING RATIOS

STA	AIRLOAD RATIOS			DEADWEIGHT RATIOS		
	R(+V)	R(+T)	R(-M)	R(+V)	R(+T)	R(-M)
1	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
2	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
3	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
4	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
5	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
6	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
7	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
8	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
9	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
10	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000
11	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000

-FLUTTER ANALYSIS DAT-

** CJCAL - IP(22) **

VFO= 767.7 VFT= 80.0 VFC= 350000.0 VFK= 1.0000 CJFAC= 1.0000

TVF	1	6	11	16	21	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96
1	0.26119635E+12	-0.10114126E+02	0.10036827E+07	0.15611564E+03	-0.43733276E+03															
6	0.14385862E+01	0.37764632E+01	-0.15335659E+02	0.80687259E+01	0.19635046E+01															
11	-0.14045579E+02	-0.40138481E+01	0.59365379E+05	0.0	0.39000000E+07															
16	0.43213713E+00	0.46415479E+03	0.30285034E+03	0.44321609E+02	0.96415479E+03															
21	0.30285034E+03	0.44321609E+02	0.14271799E+03	0.10000000E+01	0.96415479E+02															
26	0.24104242E+02	0.0	0.0	0.0	0.78666443E+00															
31	0.13364110E+01	0.10000000E+01	0.27206057E+00	0.74013424E-01	0.20137087E-01															
36	0.22822422E+01	0.36756216E+01	0.64122837E-01	0.21340446E-01	0.72793943E+00															
41	0.56163463E+00	0.37909150E+00	0.62090650E+00	0.47124964E+00	0.16105425E+00															
46	0.90861896E+01	0.43016537E+00	0.19198819E+00	0.64122837E-01	0.63254863E+04															
51	0.18703960E+03	0.10000000E+01	0.10000000E+01	0.10000000E+01	0.10000000E+01															
56	0.82515866E+00	0.13017202E+01	0.10000000E+01	0.29051905E+01	0.45138073E+00															
61	0.22317333E+01	0.29252273E+01	0.56064414E+01	0.51966629E+00	0.01587716E+00															
66	0.85200005E+01	0.33810970E+02	0.0	0.0	0.0															
71	0.11261567E+01	0.0	0.0	0.13269852E+02	0.30285034E+03															
76	0.22885266E+03	0.12231404E+01	0.13815224E-01	-0.32200550E+00	0.10000000E+01															
81	0.94999993E-03	0.0	0.43194497E+01	0.97100586E+00	-0.12219081E+02															
86	-0.31165761E+01	0.10000000E+01	0.77181506E+00	0.66694108E+00	0.26476437E+00															
91	0.10652257E+00	0.14634118E+00	0.0	0.10000000E+01	0.0															
96	0.0	0.0	0.0	0.0	0.0															

TGJ	1	6	11	16	21	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96
1	0.31025000E+04	0.85200005E+01	0.41750002E+00	0.25000000E+02	0.16329998E+00															
6	0.61237001E+00	0.15534995E+03	0.10490977E+04	0.88194897E+03	0.96415479E+03															
11	0.77699947E+02	0.30285034E+03	0.44321609E+02	0.43816537E+00	0.16105425E+00															
16	0.62090650E+00	0.43016537E+00	0.47124964E+00	0.40404749E+00	0.91473794E+00															
21	0.11999923E+00	0.63499692E+00	0.37750363E+00	0.90861896E+00	0.42261791E+00															
26	0.90861896E+00	0.43016537E+00	0.47124964E+00	0.40404749E+00	0.91473794E+00															
31	0.57847632E+03	0.46705664E+03	0.38563696E+03	0.28421725E+03	0.19279761E+03															
36	0.96377930E+02	0.24062744E+02	0.14271799E+03	0.13469907E+02	0.12668042E+03															
41	0.11866151E+03	0.11064265E+03	0.10262421E+03	0.94605560E+02	0.86586655E+02															
46	0.76561008E+02	0.70549088E+02	0.64535110E+02	0.44321609E+02	0.41045123E+02															
51	0.37666637E+02	0.34642151E+02	0.31415665E+02	0.28189209E+02	0.24962723E+02															
56	0.21736237E+02	0.18504750E+02	0.15283264E+02	0.12663388E+02	0.30765034E+03															
61	0.28583447E+03	0.26881836E+03	0.25160266E+03	0.23478674E+03	0.21777083E+03															
66	0.20075491E+03	0.18273500E+03	0.16672307E+03	0.14970715E+03	0.13694514E+03															
71	0.10000000E+01	0.77699947E+01	0.34000000E+07	0.80687259E+01	0.10000000E+01															
76	0.84999998E+01	0.47500002E+00	0.64442352E+02	0.18136209E+03	0.27778174E+03															
81	0.37420117E+03	0.47062085E+03	0.56704053E+03	0.66346021E+03	0.75967966E+03															

86	0.85429954E+03	0.59271041E+03	0.10250344E+04	0.77699947E+02	0.18136209E+03
91	0.25409751E+03	0.24224114E+02	0.43044487E+03	0.91869360E+03	0.60689231E+03
96	0.84999998E+01	0.77699947E+01	0.64442352E+02	0.18136209E+03	0.0

-DESIGN CJ DATA-

FLUTTER DESIGN TEMP= 10.0 DEG. DESIGN G= 390000.0 PSI
STRUCT. DESIGN TEMP= 10.0 DEG. DESIGN G= 3947369.0 PSI

STA	CJ(KECO)	CJ(SC/LED)
1	261196349.000.	274368751.000.
2	237725686.000.	236924644.000.
3	200404238.000.	202836245.000.
4	164936254.000.	166524644.000.
5	128829293.000.	130242961.000.
6	95417598.000.	96978471.000.
7	65878220.800.	66476342.200.
8	41253740.500.	4175474.000.
9	22064419.600.	22352646.100.
10	8441753.890.	8442777.770.
11	1655389.0	1674495.0

CASE 1

INITIAL BLAKEWRIGHT DISTRIBUTION DATA AT DOW(1)

INITIAL BLAKEWRIGHT DISTRIBUTION DATA AT DOW(1)

DGMD= 316100.0

INITIAL 1-G DEADWEIGHT

INITIAL 1-G DEADWEIGHT

INITIAL 1-G DEADWEIGHT

INITIAL 1-G DEADWEIGHT

STA	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.
1	91402.7	26395440.0	1672420.0	12153.3	4019953.0	-1.5	4461.8	1790825.0	-295456.2	4461.8	1790825.0	-295456.2
2	71887.4	20541632.0	1710728.0	4425.7	2973510.0	-1.2	4124.4	1371034.0	-278377.5	4124.4	1371034.0	-278377.5
3	55266.1	14436066.0	1804481.0	7521.3	2150136.0	-0.7	3338.8	1011399.9	-201118.6	3338.8	1011399.9	-201118.6
4	40848.1	10517281.0	819443.4	5810.5	1510443.0	-0.7	2627.4	724523.6	-140056.0	2627.4	724523.6	-140056.0
5	37524.8	6687195.0	864776.7	4445.5	1011860.8	-0.3	2017.4	501520.1	-96619.5	2017.4	501520.1	-96619.5
6	22096.2	4362717.0	-85014.4	3320.7	645445.1	-0.0	1573.4	327741.7	-71392.5	1573.4	327741.7	-71392.5
7	15928.6	2535629.0	-57288.2	2360.2	372837.4	0.2	1141.5	197172.0	-48095.1	1141.5	197172.0	-48095.1
8	10484.8	1281376.0	-37034.1	1550.9	185447.2	0.0	783.7	105957.6	-31310.5	783.7	105957.6	-31310.5
9	6032.0	497845.0	-21745.3	880.0	64313.7	0.0	487.3	44850.8	-18673.1	487.3	44850.8	-18673.1
10	2449.9	97963.7	-9712.6	334.4	11725.6	0.0	224.8	10784.8	-8545.4	224.8	10784.8	-8545.4
11	60.0	812.1	-2324.9	0.0	0.0	0.0	60.0	812.1	-2324.9	60.0	812.1	-2324.9

DESIGN FUEL 1-G D.W.T.

DESIGN FUEL 1-G D.W.T.

DESIGN FUEL 1-G D.W.T.

STA	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.
1	59171.6	18449246.0	-63444.2	15616.0	4135433.0	2031334.0	15616.0	4135433.0	2031334.0	15616.0	4135433.0	2031334.0
2	42521.3	13567364.0	-42225.4	15616.0	2628743.0	2031334.0	15616.0	2628743.0	2031334.0	15616.0	2628743.0	2031334.0
3	28790.0	10152475.0	-25732.4	15616.0	1124054.0	2031334.0	15616.0	1124054.0	2031334.0	15616.0	1124054.0	2031334.0
4	24601.7	7710908.0	-20914.3	7608.0	571407.7	980934.4	7608.0	571407.7	980934.4	7608.0	571407.7	980934.4
5	23253.9	5348633.0	-19537.6	7608.0	-181437.1	980934.4	7608.0	-181437.1	980934.4	7608.0	-181437.1	980934.4
6	17204.1	3389531.0	-13622.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	12426.8	1965620.0	-9292.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8150.1	989971.6	-5723.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	4664.7	313680.5	-3072.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1890.8	75453.3	-1167.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CASE 1

---BASIC LIMIT AIRLOAD DATA---ADV COMPOSITE ANALYSIS---

** ACLOAD = 187211

COND	TONG	NGW	DFL-FL	REL-HL	N7	TEMP	DNW	HFL1	HFL2	WCL1	WCL2
60117.0	318000.0	316100.0	1900.0	0.0	2.500	85.3	1.0000	1.0000	1.0000	1.0000	1.0000
60317.0	318000.0	316100.0	1900.0	0.0	2.500	85.3	1.0000	1.0000	1.0000	1.0000	1.0000
60617.0	318000.0	316100.0	1900.0	0.0	-1.000	82.7	1.0000	1.0000	1.0000	1.0000	1.0000
60817.0	318000.0	318000.0	0.0	0.0	2.000	85.0	1.0000	1.0000	1.0000	1.0000	1.0000
61017.0	318000.0	316100.0	1900.0	0.0	2.472	82.7	1.0000	1.0000	1.0000	1.0000	1.0000
61117.0	318000.0	316100.0	1900.0	0.0	2.803	85.0	1.0000	1.0000	1.0000	1.0000	1.0000
61417.0	318000.0	316100.0	1900.0	0.0	-0.472	82.7	1.0000	1.0000	1.0000	1.0000	1.0000
61517.0	318000.0	316100.0	1900.0	0.0	-0.803	85.0	1.0000	1.0000	1.0000	1.0000	1.0000
61817.0	318000.0	316100.0	1900.0	0.0	1.000	82.7	1.0000	1.0000	1.0000	1.0000	1.0000
61917.0	318000.0	316100.0	1900.0	0.0	1.000	85.0	1.0000	1.0000	1.0000	1.0000	1.0000
62017.0	318000.0	316100.0	1900.0	0.0	1.250	85.3	1.0000	1.0000	1.0000	1.0000	1.0000
62117.0	318000.0	316100.0	1900.0	0.0	1.250	85.0	1.0000	1.0000	1.0000	1.0000	1.0000
62217.0	318000.0	316100.0	1900.0	0.0	1.000	85.3	1.0000	1.0000	1.0000	1.0000	1.0000
62317.0	318000.0	316100.0	1900.0	0.0	1.000	85.0	1.0000	1.0000	1.0000	1.0000	1.0000

---DESIGN LOADS SUMMARY---ACL ARRAY---

** ACLOAD = 187211

ACL											
1	354885.8	312629.6	270178.6	277917.8	184411.7	144171.1					
7	107606.0	71041.3	39948.8	12778.7	904.8	150742749.5					
1311	1324910.2	90020880.4	65030464.3	45708980.4	29557122.4	17229884.8					
19	8504012.4	3070079.9	509774.3	10981.4	2907428.7	2462061.5					
25	2040467.9	1846447.8	1284447.0	85841.5	469494.1	423024.3					
31	221631.2	66854.9	4435.7	170442.8	324989.2	281161.9					
37	239356.3	196147.4	154039.2	113527.1	74492.5	41825.0					
43	13280.1	935.8	158132727.4	124261996.3	94630852.5	40251995.1					
49	48103793.2	31097010.0	18102673.7	8913239.4	720812.2	529448.5					
55	11361.4	-8245457.6	-64999172.4	-5814726.1	-4703304.4	-1678405.8					
61	-2749290.3	-1922297.1	-1212009.2	-431780.0	-189715.2	-12488.8					
67	-141729.5	-124844.9	-107883.7	-91000.2	-74421.1	-58152.0					
73	-42994.4	-28727.1	-15959.9	-5188.4	-761.8	-68191255.4					
79	-4724988.9	-3594268.5	-2628161.4	-18250190.7	-1180274.5	-4888142.1					
85	-3397044.1	-1226824.5	-203839.2	-4992.2	-1281445.2	-1088751.8					
91	-900570.0	-725481.1	-568851.0	-422830.7	-294883.4	-188891.4					
97	-97861.1	-29539.8	-1460.9	299152.4	258720.1	217869.2					
103	166829.6	122818.5	88718.6	44857.4	22495.7	8695.7					
109	1974.8	112.5	104001270.3	76010232.2	47997818.0	75548859.5					
115	21520172.1	11674258.2	5488250.7	2120125.1	594803.8	77300.8					
121	1365.5	-5665797.2	-4751545.8	-1801299.0	-2900846.3	-2082438.2					
127	-1373289.4	-813237.0	-421161.8	-182044.7	-47796.2	-2944.9					
133	321260.5	282987.9	244541.5	208271.5	188491.4	132267.5					
139	97456.1	65116.1	36176.6	11979.5	820.0	13836440.6					
145	107091161.6	81471733.4	59578030.9	41767986.7	24751043.0	15594438.7					
151	7700132.0	2780861.9	461592.2	9055.9	2909204.8	2463357.0					
157	2041335.9	1646952.5	1284889.9	958436.8	660778.0	421178.2					
163	221823.2	66958.2	4444.8	167882.5	329731.5	288894.2					
169	236560.3	193697.1	152804.7	111974.7	74856.7	41275.0					
175	13176.6	925.2	156328731.8	122779403.4	97454654.4	48767967.5					
181	47467969.3	30678965.0	17858824.3	8795181.2	7104863.7	521052.5					
187	11232.9	-2118634.6	-1798483.7	-149093.9	-1204740.3	-941713.1					
193	-782954.3	-491225.4	-309694.3	-161525.5	-48427.4	-4199.1					
199	-37881.4	-33298.1	-28774.2	-24271.1	-10849.2	-15563.4					
205	-11467.3	-7667.0	-4256.8	-1362.5	-96.5	-18051929.3					
211	-12600987.9	-9586452.4	-7010708.2	-4867885.3	-3147793.0	-1835852.6					
217	-906043.7	-327212.9	-54313.7	-1171.5	-342714.5	-280853.1					
223	-240195.8	-193790.3	-151187.8	-112775.4	-78809.0	-40793.4					
229	-26181.0	-7878.7	-523.0	-78800.1	-67833.3	-58518.7					
235	-49421.7	-40466.8	-31756.5	-23393.5	-15896.7	-8623.1					
241	-2742.4	-193.3	-3268983.9	-25450825.8	-10524358.3	-14782337.1					
247	-9916908.4	-6409387.6	-3731029.4	-1837471.9	-661238.7	-109275.1					
253	-2346.7	442620.9	374317.8	311480.8	251491.0	198657.2					
259	146859.8	102625.8	84700.7	33745.6	10117.4	668.4					
571	0.0	0.0	0.0	0.0	0.0	0.0					
577	0.0	0.0	0.0	0.0	0.0	0.0					
583	0.0	0.0	0.0	0.0	0.0	0.0					
589	0.0	0.0	0.0	0.0	0.0	0.0					
595	0.0	0.0	0.0	0.0	0.0	0.0					
601	0.0	0.0	0.0	0.0	0.0	0.0					
607	0.0	0.0	0.0	0.0	0.0	0.0					
613	0.0	0.0	0.0	0.0	0.0	0.0					
619	0.0	0.0	0.0	0.0	0.0	0.0					
625	0.0	0.0	0.0	0.0	0.0	0.0					
631	0.0	0.0	0.0	0.0	0.0	0.0					
637	0.0	0.0	0.0	0.0	0.0	0.0					
643	0.0	0.0	0.0	0.0	0.0	0.0					
649	0.0	0.0	0.0	0.0	0.0	0.0					
655	0.0	0.0	0.0	0.0	0.0	0.0					

•• TEMPC - 1P(13) •

---TEMPERATURE-MAX MATERIAL DATA---ADV. COMPENSATE DESIGN---

CASE 1

LOAD II	TEMP.	FL	FT	GXY	NUXX	FTII	FCU	FSU
1	95.3	30000000.0	2541214.5	443223.0	.2098	-164451.8	189119.2	67000.0
2	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0
3	92.7	30000000.0	2558332.6	444180.9	.2097	-164594.4	189753.1	67000.0
4	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0
5	92.7	30000000.0	2558332.6	444180.9	.2097	-164594.4	189753.1	67000.0
6	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0
7	92.7	30000000.0	2558332.6	444180.9	.2097	-164594.4	189753.1	67000.0
8	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0
9	92.7	30000000.0	2558332.6	444180.9	.2097	-164594.4	189753.1	67000.0
10	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0
11	95.3	30000000.0	2541214.5	443223.0	.2098	-164451.8	189119.2	67000.0
12	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0
13	95.3	30000000.0	2541214.5	443223.0	.2098	-164451.8	189119.2	67000.0
14	80.0	30000000.0	264400.0	440400.0	.2092	-161280.0	192800.0	67000.0

LOAD II	ENX(1)	ENX(2)	ENX(3)	ENX(4)	ENX(5)	ENX(1)	ENX(2)	ENX(3)	ENX(4)	ENX(5)	E(100)
1	30112277.4	2550729.2	435153.6	9044551.4	7770105.5	3891.2	-1604.5	1340.0	1340.0	1340.0	8739228.4
2	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0
3	30112916.5	2547961.9	538484.2	9149315.1	777380.7	3897.5	-1605.9	1340.0	1340.0	1340.0	8771214.1
4	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0
5	30112916.5	2547961.9	538484.2	9149315.1	777380.7	3897.5	-1605.9	1340.0	1340.0	1340.0	8771214.1
6	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0
7	30112916.5	2547961.9	538484.2	9149315.1	777380.7	3897.5	-1605.9	1340.0	1340.0	1340.0	8771214.1
8	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0
9	30112916.5	2547961.9	538484.2	9149315.1	777380.7	3897.5	-1605.9	1340.0	1340.0	1340.0	8771214.1
10	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0
11	30112277.4	2550729.2	435153.6	9044551.4	7770105.5	3891.2	-1604.5	1340.0	1340.0	1340.0	8739228.4
12	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0
13	30112277.4	2550729.2	435153.6	9044551.4	7770105.5	3891.2	-1604.5	1340.0	1340.0	1340.0	8739228.4
14	30115967.3	2650807.4	554442.9	9149315.1	778815.1	3028.0	-1612.8	1340.0	1340.0	1340.0	8923843.0

---ENQC PROPERTIES FOR STIFFNESS CALCULATIONS---

ITEM	TEMP.	FL	GXY	ENQC(1)	ENQC(2)	ENQC(3)	ENQC(4)	ENQC(5)	ENQC(6)
ST. REF.	80.0	30000000.0	440400.0	30115967.3	2650807.4	554442.9	9149315.1	778815.1	7574272.0
FLUT. RFF.	80.0	30000000.0	440400.0	30115967.3	2650807.4	554442.9	9149315.1	778815.1	7574272.0
FLUT/OPFM.	80.0	30000000.0	440400.0	30115967.3	2650807.4	554442.9	9149315.1	778815.1	7574272.0
FLEX/LOADS	80.0	30000000.0	440400.0	30115967.3	2650807.4	554442.9	9149315.1	778815.1	7574272.0

CASE 1

---HEADING HEIGHT AND V-MIN ADJUSTMENT DATA---

== DVM4 = (P/24) *

ICASE2 NOUW4 U=316100.0 DGM=0.00000

STA	DEPT(A)	YMU(A)	YMU(N)	YML(A)	YML(N)	TH-W/IN	TH-M(A)	TH-M(N)	NA(I)
1	47.4513	.3126	.3126	.3126	.3126	24.2972	3711270.0	3711270.0	25007.4
2	37.5007	.3043	.3043	.3043	.3043	22.1053	2745184.6	2745184.6	24541.8
3	32.4740	.3024	.3024	.3024	.3024	18.1936	1485037.1	1485037.1	23665.3
4	27.3661	.2884	.2884	.2884	.2884	14.5609	1384460.5	1384460.5	21666.2
5	22.4714	.2771	.2771	.2771	.2771	11.5888	948273.4	948273.4	20014.7
6	21.1327	.2610	.2610	.2610	.2610	9.4523	59882.0	59882.0	14924.4
7	19.2441	.2076	.2076	.2076	.2076	8.4418	344207.2	344207.2	10222.9
8	17.4346	.1771	.1771	.1771	.1771	7.0555	171208.5	171208.5	5428.8
9	15.5504	.1662	.1662	.1662	.1662	5.7931	83940.9	83940.9	2484.8
10	13.8606	.1662	.1662	.1662	.1662	4.6544	10825.1	10825.1	451.3
11	12.2076	.1662	.1662	.1662	.1662	3.8426	0.0	0.0	17.7

== DVM4 = (P/24) *

STA	YMU(N)	YML(N)	DL-W/IN	TH-M(N)
1	.3126	.3126	-.0104	3724088.0
2	.3043	.3043	-.0074	2758144.0
3	.3024	.3024	-.0044	1942403.3
4	.2884	.2884	-.0024	1348177.2
5	.2771	.2771	-.0007	941206.5
6	.2610	.2610	0.0000	545882.0
7	.2076	.2076	0.0000	344207.2
8	.1771	.1771	0.0000	171208.5
9	.1662	.1662	0.0000	83940.9
10	.1662	.1662	0.0000	10825.1
11	.1662	.1662	0.0000	0.0

== DVM4 = (P/24) *

---HEADING HEIGHT ADJUSTMENT RESULTS---

ICASE2 NOUW4 U=316100.0

STA	TH(V)	TH(M)	TH(I)	TH(W)	VFWP	TH(W)	TH(W)	TH(W)	TH(W)	W-DIST	Id-DIST
1	11274.0	372444.3	.0	24.2472	0.0000	0.0000	0.0000	0.0000	0.00	2333.44	2333.44
2	8464.5	275828.3	.0	22.1053	0.0000	0.0000	0.0000	0.0000	0.00	1942.80	1942.80
3	7001.7	194253.2	.0	18.1936	0.0000	0.0000	0.0000	0.0000	0.00	1579.04	1579.04
4	5343.7	1348180.4	.0	14.5609	0.0000	0.0000	0.0000	0.0000	0.00	1240.58	1240.58
5	4133.1	941206.5	.0	11.5888	0.0000	0.0000	0.0000	0.0000	0.00	1038.40	1038.40
6	3045.7	545882.0	.0	9.4523	0.0000	0.0000	0.0000	0.0000	0.00	884.78	884.78
7	2174.0	344207.2	.0	8.4418	0.0000	0.0000	0.0000	0.0000	0.00	747.12	747.12
8	1431.4	171208.5	.0	7.0555	0.0000	0.0000	0.0000	0.0000	0.00	619.43	619.43
9	812.6	83940.9	.0	5.7931	0.0000	0.0000	0.0000	0.0000	0.00	503.70	503.70
10	314.7	10825.1	.0	4.6544	0.0000	0.0000	0.0000	0.0000	0.00	304.70	304.70
11	0.0	0.0	.0	3.8426	0.0000	0.0000	0.0000	0.0000	0.00		

== VLOAD = (P/24) *

CASE 1

---UP SIGN LOADS/1000 AND REGR GJ/1000000---

ICASE2 NOUW4 U=316100.0

STA	V(ULT)	W(ULT)	T(ULT)	V(ULT)	W(ULT)	T(ULT)	V(ULT)	W(ULT)	T(ULT)	GJ(REQ)
1	212.859	130590.07	-18374.95	-274.721	-82661.54	-4502.24	91.415	28428.01	1403.14	220076.414
2	220.558	104270.49	-16644.61	-231.496	-67798.39	-4479.75	71.980	20586.00	1453.56	194936.022
3	217.247	87736.04	-15344.50	-190.491	-47204.14	-4447.75	55.319	14455.74	1767.31	148466.124
4	205.774	64385.52	-10032.43	-129.856	-33611.09	-3372.59	40.864	10532.13	743.99	138647.713
5	193.309	47034.82	-8682.10	-123.700	-21216.44	-3489.30	37.577	6698.90	643.87	105453.437
6	144.116	30252.23	-3750.17	-72.449	-13724.84	-71.96	22.114	4371.54	-99.67	80411.094
7	110.463	17620.35	-2628.70	-50.742	-7777.86	-32.20	19.954	2542.71	-67.93	55521.247
8	74.112	8550.40	-1652.16	-32.060	-3784.62	-13.73	10.514	1285.19	-44.23	34770.494
9	40.055	2435.67	-852.15	-17.416	-1384.89	-6.46	6.049	499.54	-25.67	18615.443
10	10.715	424.77	-242.24	-6.256	-236.82	-3.15	2.458	98.51	-11.08	7116.106
11	1.159	13.63	-9.24	-.441	-4.41	3.93	.065	.86	-2.53	1.746

00 4V LJA" = 10 (24) 4

[illegible]

00 86478-1 - 1P, 261

STA	$\phi(t t)$	$\mu(t t)$	$\Gamma(t t)$	STA	$\phi(t t)$	$\mu(t t)$	$\Gamma(t t)$
1	1.44217e-4	1.10402707e-6	-1.110515e-1	9	1.91247e-4	1.6062330e-6	-2.12217e-1
2	1.47495e-4	1.0464221e-6	-3.31612e-1	10	1.84117e-4	6.429173e-7	-6.94271e-1
3	1.38685e-4	3.6486122e-5	-1.113445e-1	11	1.76352e-4	2.705016e-6	1.16413e-1
7	1.1716e-1	1.3205111e-2	1.21977e-6	12	1.6826e-4	1.0626e-6	1.7300e-7
9	3.7216e-9	2.71311e-5	6.4101e-6	13	4.99e-5	3.04777e-6	1.4611e-6
11	1.131e-4	1.3226e-6	1.3171e-6				

ATA	2(011)	4(011)	1(011)	ATA	2(011)	4(011)	1(011)
1	2120510	131072000	100000000	2	2210110	100000000	100000000
2	2120610	107750000	100000000	3	2000010	000000000	100000000
4	1000000	070000000	000000000	4	1000000	000000000	100000000
7	1100100	170021000	000000000	7	1001100	000000000	100000000
9	0007000	000000000	000000000	10	1072000	000000000	000000000
11	1170000	1000000	1000000				

STA	$y(t t-1)$	$w(t t-1)$	$\Gamma(t t-1)$	STA	$y(t t-1)$	$w(t t-1)$	$\Gamma(t t-1)$
1	-7.6477e-5	-0.7677152e-8	5.7406e-1	5	-7.6477e-5	-0.60767715e-8	5.69772e-1
1	-7.6477e-5	-0.72676715e-7	1.1548e-1	5	-7.6477e-5	-0.76767715e-8	1.00007e-1
5	-5.6531e-6	-0.7310676e-9	4.0403e-1	4	-5.6531e-6	-1.115211e-6	-7.61177e-1
7	-0.5176e-6	-0.5176e-6	-0.27319e-6	4	-2.7319e-6	-3.172719e-7	-5.33661e-1
4	-1.6476e-7	-1.01911e-6	-1.74611e-1	10	-7.077e-6	-1.56161e-1	-5.0001e-1
11	-0.527e-1	-0.517e-1	-0.6076e-6				

CTA	Y (OUT)	Y (IN)	F (OUT)	CTA	Y (OUT)	Y (IN)	F (OUT)
1	136672.9	7476663.6	13666320.1	8	172367.7	83761126.5	17235211.0
2	136672.9	7476663.6	11115343.6	9	172474.2	21782720.5	11117277.7
3	172626.1	12222363.6	1717947.0	4	54756.0	660616.6	1806174.1
4	221626.1	615064.0	176764.0	5	25751.0	6796617.0	273617.0
5	666672.9	661261.0	201126.0	10	66476.5	176661.0	662667.0
6	-116.0	-746.0	7366.1				

SUR	Y (1971)	Y (1972)	Y (1973)	SUR	Y (1974)	Y (1975)	Y (1976)
1	12040.0	9437960.0	10140120.0	2	15000.0	66627100.0	20604500.0
1	161700.0	6861000.0	2630150.0	4	15000.0	6000000.0	070000.0
5	11000.0	3723110.0	1270000.0	1	10000.0	2300000.0	170000.0
7	10000.0	1307000.0	127750.0	4	10000.0	600000.0	1700.0
9	10000.0	2321000.0	41300.0	11	0000.0	20000.0	10000.0
11	10000.0	11021.0	1800.0				

STA	WATER	WATER	TEMP	STA	WATER	WATER	TEMP
1	100318.0	115076730.0	-10.07700.0	9	100318.0	97770000.0	-0.000000.0
2	100318.0	79455500.0	-0.000000.0	10	100318.0	64100000.0	-0.000000.0
3	100318.0	-1000000.0	-0.000000.0	11	100318.0	97770000.0	-0.000000.0
4	100318.0	1000000.0	-0.000000.0	12	100318.0	97770000.0	-0.000000.0
5	100318.0	1000000.0	-0.000000.0	13	100318.0	97770000.0	-0.000000.0
6	100318.0	1000000.0	-0.000000.0	14	100318.0	97770000.0	-0.000000.0
7	100318.0	1000000.0	-0.000000.0	15	100318.0	97770000.0	-0.000000.0
8	100318.0	1000000.0	-0.000000.0	16	100318.0	97770000.0	-0.000000.0

S. N.	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	2045-46	2046-47	2047-48	2048-49	2049-50	2050-51	2051-52	2052-53	2053-54	2054-55	2055-56	2056-57	2057-58	2058-59	2059-60	2060-61	2061-62	2062-63	2063-64	2064-65	2065-66	2066-67	2067-68	2068-69	2069-70	2070-71	2071-72	2072-73	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	2079-80	2080-81	2081-82	2082-83	2083-84	2084-85	2085-86	2086-87	2087-88	2088-89	2089-90	2090-91	2091-92	2092-93	2093-94	2094-95	2095-96	2096-97	2097-98	2098-99	2099-00	2100-01	2101-02	2102-03	2103-04	2104-05	2105-06	2106-07	2107-08	2108-09	2109-10	2110-11	2111-12	2112-13	2113-14	2114-15	2115-16	2116-17	2117-18	2118-19	2119-20	2120-21	2121-22	2122-23	2123-24	2124-25	2125-26	2126-27	2127-28	2128-29	2129-30	2130-31	2131-32	2132-33	2133-34	2134-35	2135-36	2136-37	2137-38	2138-39	2139-40	2140-41	2141-42	2142-43	2143-44	2144-45	2145-46	2146-47	2147-48	2148-49	2149-50	2150-51	2151-52	2152-53	2153-54	2154-55	2155-56	2156-57	2157-58	2158-59	2159-60	2160-61	2161-62	2162-63	2163-64	2164-65	2165-66	2166-67	2167-68	2168-69	2169-70	2170-71	2171-72	2172-73	2173-74	2174-75	2175-76	2176-77	2177-78	2178-79	2179-80	2180-81	2181-82	2182-83	2183-84	2184-85	2185-86	2186-87	2187-88	2188-89	2189-90	2190-91	2191-92	2192-93	2193-94	2194-95	2195-96	2196-97	2197-98	2198-99	2199-00	2200-01	2201-02	2202-03	2203-04	2204-05	2205-06	2206-07	2207-08	2208-09	2209-10	2210-11	2211-12	2212-13	2213-14	2214-15	2215-16	2216-17	2217-18	2218-19	2219-20	2220-21	2221-22	2222-23	2223-24	2224-25	2225-26	2226-27	2227-28	2228-29	2229-30	2230-31	2231-32	2232-33	2233-34	2234-35	2235-36	2236-37	2237-38	2238-39	2239-40	2240-41	2241-42	2242-43	2243-44	2244-45	2245-46	2246-47	2247-48	2248-49	2249-50	2250-51	2251-52	2252-53	2253-54	2254-55	2255-56	2256-57	2257-58	2258-59	2259-60	2260-61	2261-62	2262-63	2263-64	2264-65	2265-66	2266-67	2267-68	2268-69	2269-70	2270-71	2271-72	2272-73	2273-
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CD

** ASTIFF

1	.5797A029E+12	.3A40A913F+12	.26A118A2F+12	.2053A237F+12	.12A0724AF+12
6	.A16913A0E+11	.58477936F+11	.37263350F+11	.215A4A41E+11	.9097001AF+10
11	.2930A5A0E+10	.A0702322F+12	.592A5A16E+12	.42150522F+12	.249A7055F+12
16	.1532A65HE+12	.10774330F+12	.697A9048E+11	.41342922F+11	.249A6A03E+11
21	.14079887E+11	.65251516F+10	.55751424E+07	.51920567F+07	.50999918E+07
26	.596A828AE+07	.60651960F+07	.5A6922A9E+07	.50800A81F+07	.60474703F+07
31	.59504071E+07	.49348168F+07	.3A355326E+07	.16053A66F+08	.166A1746E+08
36	.17099361E+08	.15787075E+08	.15701327E+08	.1A3A2079F+08	.15919094E+08
41	.15287140E+08	.15114062F+08	.1604A752E+08	.1606A49AF+08	.5797A029E+12
46	.38406913E+12	.26811882E+12	.2053A337E+12	.12A0724AF+12	.A9368004E+11
51	.63749443E+11	.40180635F+11	.2156A641E+11	.0097001AF+10	.29306580E+10
56	.80702322E+12	.59265616F+12	.42159522E+12	.249A7055F+12	.1532A65AE+12
61	.21039919E+12	.96A22793E+11	.43559568E+11	.2499A03F+11	.14079A87E+11
66	.65251516E+10	.55751424E+07	.51929567E+07	.50999918F+07	.596A828AE+07
71	.60651960E+07	.5A774202F+07	.61315580E+07	.40837971F+07	.59504071E+07
76	.49348168E+07	.3A355326E+07	.16053A64E+08	.166A1746E+08	.17099361E+08
81	.15787075E+08	.15701327F+08	.12649718E+08	.12047953F+08	.11834563E+08
86	.15114062E+08	.16046752E+08	.1606A496E+08	.5797A029F+12	.3A406913E+12
91	.26811882E+12	.20536337F+12	.12807248E+12	.A936A004F+11	.63749443E+11
96	.40180635E+11	.2156A641E+11	.90970016E+10	.2930A580F+10	.A0702322E+12
101	.59265616E+12	.42159522E+12	.249A7055E+12	.1532A6A5AE+12	.21039919E+12
106	.96822793E+11	.43559568F+11	.24996A03E+11	.14079087F+11	.65251516E+10
111	.55751424E+07	.51929567F+07	.50999918E+07	.596A828AE+07	.60651960E+07
116	.5A774202E+07	.61315580F+07	.60837971E+07	.50504071F+07	.4934A16AE+07
121	.38355326E+07	.16053664F+08	.166A1746E+08	.17099361F+08	.15787075E+08
126	.15701327E+08	.12649718F+08	.12047953E+08	.11834563F+08	.15114062E+08
131	.16046752E+08	.16066496F+08	.5797A029E+12	.2040A013F+12	.26811882E+12
136	.20536337E+12	.12807248E+12	.A16913A0E+11	.5A477036E+11	.37263350E+11
356	.20536337E+12	.12807248E+12	.A16913A0E+11	.5A477036F+11	.37263350E+11
361	.2156A641E+11	.90970016F+10	.2930A5A0E+10	.A0702322F+12	.59265616F+12
366	.42159522E+12	.24987055E+12	.1532A6A58E+12	.1A774330F+12	.697A9048E+11
371	.41342922E+11	.24996803F+11	.14079A87E+11	.A525151AF+10	.55751424E+07
376	.51929567E+07	.50999918E+07	.596A828AE+07	.60651960F+07	.566922A9E+07
381	.59809881E+07	.60474703F+07	.59504071E+07	.4034A16AF+07	.3A355326E+07
386	.16053664E+08	.166A1746F+08	.17099361F+08	.15787075F+08	.15701327E+08
391	.163A83979E+08	.15919094E+08	.15287140E+08	.15114062F+08	.16046752E+08
396	.1606A496E+08				

•• 47451 ••

•• 114512 ••

[illegible]

CASE 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
 PAGE 4 C 141 TEST CASE ---NO. 1 ---
 NUDW=3 T=0.02 DOW= 316100.0 N7= 2.500/-1.000

ACPRTA - 10(27)

---PANEL WEIGHT SUMMARY--- LHS/SIDE---

PANEL	SUM	T-RON	L.F.	T.F.	MISC.	DEI TA VF	TIP	RT-WTH	C-SECT
TOTAL	11457.41	9028.42	499.88	2917.91	291.45	20.24	14.76	422.84	7509.04
(INH)	14.45	14.42	12.68	12.05	11.83	0.00		17.14	
1	1644.13	1342.91	42.11	152.43	40.44	0.00			
2	1474.17	1192.80	44.80	453.15	44.81	0.00			
3	1644.14	1061.46	42.10	494.43	41.05	0.00			
4	1634.09	1102.23	75.60	414.05	39.92	0.00			
5	1344.17	949.87	70.42	273.05	32.43	0.00			
6	474.44	404.44	45.34	281.31	23.78	7.03			
7	787.51	640.44	40.00	227.44	19.21	6.47			
8	627.41	370.45	44.60	184.74	14.30	3.00			
9	517.44	274.71	44.34	173.44	12.46	0.00			
10	317.73	144.03	24.70	119.15	7.75	0.00			
(INH)	54.40	0.00	0.00	34.40	1.36	0.00	19.94		

---WEIGHT/INCH SUMMARY---

SFCT.	TOTAL	T-RON	L.F.	T.F.	MISC.	DEI TA VF	CONC. ITEMS
1	17.2274	14.2710	.4557	1.5409	.4207	0.0000	415.3157
2	19.7902	12.4724	.4982	4.7349	.4427	0.0000	0.0000
3	17.4245	11.3704	.4515	5.1494	.4348	0.0000	43.4688
4	15.3140	9.4055	.7841	4.3450	.3734	0.0000	0.0000
5	12.1414	8.3283	.7307	2.8119	.2973	0.0000	442.4854
6	10.7740	4.9174	.4772	2.9174	.2428	.4754	0.0000
7	8.7412	4.4414	.4227	2.3409	.2144	.4700	0.0000
8	7.4242	4.3434	.4774	1.9244	.1714	.4642	0.0000
9	5.7621	3.3109	.4114	1.7944	.1405	0.0000	0.0000
10	4.4901	2.3742	.3567	1.4477	.1095	0.0000	0.0000
11	1.4592	1.4211	0.0000	0.0000	.0340	0.0000	22.4016

---DESIGN LOADS SUMMARY---

SFCT.	+V(ULT)	+M(ULT)	+T(ULT)	-V(ULT)	-M(ULT)	-T(ULT)	VDM(1-0)	MNM(1-0)	TDM(1-0)
1	227012.2	135826907.5	-18639941.6	-273444.3	-90679467.0	-4714114.5	87440.5	27032582.5	1672441.4
2	232657.0	113138244.2	-16914004.4	-227424.4	-4427410.7	-4854211.5	44753.8	19514599.5	1710733.1
3	224040.4	40613274.3	-1544920.3	-147046.9	-44071756.1	-4991797.7	53013.9	13644400.7	1444444.1
4	212147.3	66533695.4	-10129441.9	-127053.4	-32792440.4	-3480713.4	39156.4	9959279.2	140044.4
5	154172.0	48444537.7	-8740534.4	-121041.3	-20452714.4	-3672557.8	36279.1	6244440.6	444744.2
6	143113.4	31312490.4	-3844112.9	-70742.4	-13364254.0	-124780.2	20745.3	4044406.4	-44414.2
7	114240.2	14254712.7	-2644202.0	-49121.3	-7544405.0	-69237.1	14944.8	2372079.4	-57304.4
8	76763.4	8474444.5	-1679104.1	-31247.4	-3670434.0	-35956.0	9404.7	1197456.4	-37042.1
9	4432.1	3061539.4	-844101.2	-14944.2	-1344704.2	-14044.7	5424.1	444444.3	-21751.7
10	11337.9	444244.4	-247344.7	-4143.4	-22444.4	-4954.4	2291.4	93041.2	-4715.0
11	1044.4	13444.5	-10014.2	-446.3	-7404.4	545.9	47.5	412.2	-2324.0

CASE 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
 PAGE 10 C 141 TEST CASE ---NO. 1 ---
 NUDW=3 T=0.02 DOW= 316100.0 N7= 2.500/-1.000

ACPRTA - 10(27)

---SECTION DESIGN Y-RAR DATA---

STA	YH(1)	YH(4)	YBL(1)	YBL(4)	TR-W/IN
1	.1424	.1975	.1362	.1395	14.2710
2	.1404	.1844	.1305	.1337	12.4724
3	.1404	.1734	.1354	.1345	11.3704
4	.1544	.1604	.1345	.1413	9.4055
5	.1442	.1440	.1416	.1447	8.3283
6	.1249	.1298	.1209	.1234	4.4414
7	.1132	.1159	.1014	.1039	5.5236
8	.0930	.0953	.0846	.0826	4.2494
9	.0738	.0773	.0673	.0692	3.3109
10	.0532	.0544	.0457	.0453	2.3762
11	.0332	.0332	.0268	.0244	1.4211

---ROOT SECTION WEIGHT SUMMARY---

TWT	1	2	3	4	5	6	7	8	9	10	11
1	4028.4210	2352.6257	2438.4458	20.2344	465.3244	444.4465	746.2802	492.2340	1743.4202		
10	374.2094	272.7957	1429.3704	444.7007	320.4747	140.7718	343.9147	123.9373	662.4424		
19	0.0000	0.0000	0.0000	20.2344	0.0000	0.0000	0.0000	0.0000	0.0000		
28	0.0000	0.0000	291.7419	122.5127	129.1654	141.4235	122.5127	422.5393	11.4324		
37	144.4407	16.2476	82.6426	11457.8042	11957.8042	0.0000	0.0000	5.4892	11957.8042		
46	8028.4214	699.4767	2917.9132	291.6539	19.9424	422.5393	2345	14.0000	422.5393		
55	470.9313	422.5393	36.9459	0.0000	11.4461						
64	44.9012	0.0000	0.0000	34.5442	1.3634						

CASE 1

---DEADWEIGHT AND Y-Axis ADJUSTMENT DATA---

** DWTGA = (P.25) *

IGW=2 NODW=1 NGW= 316100.0 UGWRT= 0.00000

STA	DEFT(A)	YMU(A)	YMU(I)	YML(A)	YML(I)	TH=M/IN	TR=M(A)	TR=M(I)	NA(I)
1	42.0433	.5501	.5505	.4332	.4333	21.0083	389251.2	3830782.0	24492.9
2	31.1614	.5244	.5243	.4244	.4247	14.3842	2415479.6	2414252.2	24045.3
3	32.1523	.5080	.5086	.4206	.4207	17.5168	1478908.0	1479014.0	23211.9
4	21.0744	.4664	.4671	.3970	.3970	15.0417	1318955.8	1318977.9	21328.1
5	22.6443	.4474	.4476	.3745	.3745	12.4661	886141.9	886160.8	19411.5
6	20.4205	.3776	.3776	.3166	.3166	9.7309	478232.1	478208.3	14764.8
7	14.1388	.3166	.3166	.2504	.2504	7.0077	255908.7	255885.2	10104.2
8	17.1642	.2586	.2586	.1660	.1660	4.7572	117104.3	117040.2	5864.2
9	15.5464	.2343	.2343	.0941	.0941	3.0434	40912.2	40903.5	2444.7
10	13.6160	.2127	.2127	.1495	.1495	2.0496	7398.7	7398.2	447.1
11	12.1244	.2541	.2573	.1476	.1576	1.7731	0.0	0.0	14.9

** DWTGA = (P.25) *

STA	YMU(N)	YML(N)	UL=M/IN	TR=M(N)
1	.5504	.4333	.0001	3899307.8
2	.5243	.4287	.0002	2416074.2
3	.5084	.4207	.0003	1478941.3
4	.4671	.3970	.0001	1318974.9
5	.4477	.3746	.0001	886174.5
6	.3776	.3166	.0000	478224.9
7	.3166	.2509	.0000	255902.4
8	.2586	.1660	.0000	117104.9
9	.2343	.0941	.0000	40911.5
10	.2127	.1495	.0001	7399.8
11	.2572	.1576	.0001	0.0

** DEADW = (P.25) *

---DEADWEIGHT ADJUSTMENT RESULTS---

IGW=2 NODW=1 NGW= 316100.0

STA	TH(V)	TH(M)	TH(I)	TRWPT	VFWDPT	THWDI	TRWDI	THCWT	W=LIST	TH=NET
1	12044.6	3899399.3	.0	21.0083	0.0000	.4198	-.0001	435.50	1955.01	1955.01
2	9814.1	2416076.9	.0	14.3842	0.0000	.7028	.0001	0.00	1743.59	1743.59
3	7776.1	1478964.3	.0	17.5168	0.0000	.4236	.0002	78.55	1575.00	1575.00
4	6041.7	1318977.9	.0	15.0417	0.0000	.5242	.0001	0.00	1356.02	1356.02
5	4242.2	886177.2	.0	12.4661	.3832	.4400	.0001	580.44	1097.45	1097.45
6	2410.1	478226.9	.0	9.7309	1.0846	.7779	.0000	0.00	809.33	809.33
7	1436.7	255904.2	.0	7.0077	1.6848	.3071	.0000	0.00	569.01	569.01
8	1074.0	117105.7	.0	4.7572	1.7183	.2611	.0000	0.00	378.30	378.30
9	536.4	40911.4	.0	3.0434	1.3158	.1798	.0000	0.00	250.54	250.54
10	144.7	7399.0	.0	2.0496	.4406	.1237	-.0001	0.00	143.11	143.11
11	26.3	0.0	.0	1.7731	0.0000	.0443	-.0001	26.30		

** VLOAD = (P.25) *

CASE 1

---DEFLECTION LOADS/1000 AND HEAVY GJ/1,000,000---

IGW=2 NODW=1 IUP=0 NGW= 316100.0

STA	OV(ULT)	OM(ULT)	OT(ULT)	OV(ULT)	OM(ULT)	OT(ULT)	VNW(IG)	MOW(IG)	TDW(IG)	GJ(RENN)
1	204.087	130182.64	-18374.05	-278.721	-92641.56	-8502.28	42.207	28537.72	1603.14	220074.816
2	214.024	104053.29	-18494.61	-231.448	-67790.39	-6879.75	72.654	20623.92	1653.56	196938.822
3	214.391	87786.78	-15344.50	-180.491	-47209.14	-6847.75	56.894	14442.21	1767.31	168866.124
4	203.344	64682.53	-10432.43	-129.856	-33611.09	-3372.59	41.516	10452.92	743.99	138647.713
5	151.467	47541.19	-8682.10	-123.100	-21216.48	-1489.10	38.068	6563.87	843.87	108563.437
6	144.078	30693.65	-3750.17	-72.489	-13724.89	-71.96	21.862	4253.88	-49.67	80411.044
7	111.744	17451.49	-2624.70	-50.142	-7777.84	-32.20	15.612	2454.00	-67.93	55521.247
8	75.435	8753.28	-1652.16	-32.060	-3744.62	-13.13	10.161	1231.09	-44.23	34770.888
9	41.040	3022.22	-452.14	-17.414	-1384.89	-4.56	5.773	476.48	-25.47	18615.443
10	11.165	437.62	-242.24	-4.256	-236.82	-3.15	2.338	95.08	-11.08	7116.104
11	1.080	13.83	-9.24	-.880	-4.41	3.93	.092	.86	-2.53	1.196

CASE 1 SECTION 11 DATA. TUG=314100.0 DGM=314100.0 [GWP= NODW=] [OP]=0 ** PHIC = [P(1)] *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

100 ---UPPER COVER AND GENERAL DATA---

04	.1414674E+02	.9104417E+01	.1044444E+02	.4334041E+01	.1044444E+02	.1212548E+02	.1344444E+01
74	.4444444E+01	.4444444E+01	.4444444E+01	.1244444E+02	.1044444E+02	.1044444E+02	.1044444E+01
42	.4444444E+01	.2554444E+01	.2554444E+01	.2554444E+01	.2554444E+01	.2554444E+01	.2554444E+01
44	.1244444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01
46	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01
103	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01	.1044444E+01
111	.4444444E+01	.2544444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.2125444E+01	.4444444E+01

100 ---LOWER COVER, FRONT AND REAR SPAN DATA---

101	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
104	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
175	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
142	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
144	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
146	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01

100 ---STRUCTURAL E10 GJ DATA---

242	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
244	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
246	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
145	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
7	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
14	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01
21	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01	.4444444E+01

CASE 1 PANEL 11 DATA. TUG=314100.0 DGM=314100.0 [GWP= NODW=] [OP]=0 ** PHIC = [P(1)] *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

101 ---DETAIL WEIGHT DATA---

1	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
10	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
14	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
28	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
37	.00000	.00000	.00000	.41.4415	.41.4415	.00000	.00000	.00000	.41.4415
46	.00000	.00000	.49.9414	.1.4974	.19.9424	.00000	.00000	.00000	.00000
55	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.34.9414
64	.1.4974	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
47	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
104	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
115	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
145	.41.4415	.00000	.00000	.49.9414	.1.4974	.00000	.00000	.00000	.00000
105	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
194	.2174	.1742	.1742	.2.2029	.2174	.2174	.1.0000	.00000	.00000
203	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
212	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
221	.24.2447	.25.7819	.00000	.00000	.4.4057	.4.4057	.4.4057	.3.3214	.3.3214

101 ---SECTION WT/INCH DATA---

331	.3355	.3355	.4452	.1141	.1209	.0014	.0014	.00000	.00000
340	.00000	.00000	.00000	.00000	.0072	.0005	.0082	.00437	.00000
344	.00000	.00000	.00000	.00000	.0070	.0020	.0029	.0034	.0074
354	.5133	.5242	.4452	.1140	.1344	.00000	.00000	.00000	.00000
367	.00000	.00000	.00000	.00000	.1.7730	.00000	.00000	.00334	.00000
376	.3544	.4.4057	.25.7819	.4.4057	.00000	.1.4174	.1.7730	.00000	.00000
385	.0043	.00000	.26.2947	.00000	.26.2947	.00000	.00000	.00000	.00000

101 --- JOINTS/MLMD DATA---

1	.4.5141	.11.4064	.4.1476	.00.4490	.00.4490	.1560	.1560	.1.6625
4	.9.3282	.1.7050	.34.0344	.00.005	.4.7114	.4753	.00.000	.00.000
17	.00.000	.00.000	.00.000	.00.000	.00.000	.00.000	.00.000	.00.000

CASE 1 SECTION 1 DATA. TUGW=316100.0 DAW=316100.0 [GWP= NODW=] [DP]=U ** PWIR = [P(1)] *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE --=NU. 1 --=

100 --=UPPER COVER AND GENERAL DATA--=

14	.1254000E+02	.2701450E+02	.4535700E+02	.1487300E+02	.2440307E+05	.4204278E+02	.2200744E+01
15	.1041071E+00	.1282400E+00	.1427100E+03	.4387000E+02	.2090000E+00	.1301027E+09	.3250000E+00
16	.4250000E+01	.4000000E+05	.4000000E+05	.1577200E+01	.4700000E+00	.5401000E+00	.3711072E+00
17	.4400000E+01	.1577401E+02	0.	.4219100E+02	0.	.1000000E+00	.4201000E+00
18	.1400000E+00	.3101020E+00	.1477700E+01	0.	.2200000E+02	.1500000E+00	.4500000E+00
19	.4000000E+01	.1550000E+01	.4240100E+01	.4240100E+01	.4000000E+01	.1000000E+01	.1405100E+00
20	.1271300E+02	.4050000E+05	.3342700E+00	.5576000E+00	.2230740E+00	.9400000E+00	0.

100 --=LOWER COVER, FRONT AND REAR SPAR DATA--=

141	.4000000E+00	.4000000E+05	.1050000E+00	.1010000E+00	.4500000E+00	.6600000E+05	.4650000E+00
142	0.	.2304500E+02	0.	0.	.2247570E+00	.9427730E+00	.4370000E+00
143	0.	0.	0.	0.	.5351921E+01	.1300000E+00	.4300000E+00
144	.4000000E+01	.2800000E+05	.1200000E+00	0.	.7031303E+01	.1237000E+00	.1000000E+00
145	.4000000E+01	.2204330E+05	.1770000E+00	0.	.2440307E+05	.4000000E+01	.4000000E+00
146	.4000000E+05	.4000000E+05	.3250000E+02	.3200000E+02	0.	.3250000E+02	.4250000E+00

100 --=STRUCTURAL E1: 0J DATA--=

147	.4000000E+00	.4000000E+03	.4240000E+01	.1475220E+00	.1000000E+00	.2500000E+02	.4330000E+00
148	.4330000E+00	.4100000E+00	.4100000E+00	.1230000E+00	.6700000E+05	.5700000E+02	.8000000E+00
149	.4000000E+02	.4150000E+01	.4775000E+01	.1400000E+00	0.	0.	0.
150	0.	0.	0.	0.	0.	0.	0.
151	.3400000E+02	.7000000E+01	.4500000E+00	.1700000E+01	.1200000E+00	.1425000E+03	.2700000E+00
152	.2700000E+02	.4500000E+02	.3037000E+00	.4277270E+02	.7500000E+01	.1130000E+01	.7000000E+00
153	.1415000E+01	.4000000E+00	.3400000E+02	.4371300E+02	.4300000E+01	.2600000E+02	.4000000E+00

CASE 1 PANEL 1 DATA. TUGW=316100.0 DAW=316100.0 [GWP= NODW=] [DP]=U ** PWIR = [P(1)] *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE --=NU. 1 --=

100 --=DETAIL W/FIGHT DATA--=

1	11414.7900	3323.5169	4000.7055	635.3109	1207.0004	779.2542	480.4710	191.5944	1974.2209
10	442.2039	225.1728	2005.5033	1431.7304	210.0072	70.3142	274.4010	90.0959	302.2010
14	257.4077	36.2710	.1403	100.5592	47.4100	.1100	0.0000	47.3630	55.2572
20	0.0000	1.4003	400.7077	170.1200	140.2300	103.1753	110.3524	309.7010	22.0010
37	114.4092	11.4010	78.4033	14302.5200	14302.5200	0.0000	0.0000	4.2500	14302.5200
46	11414.7900	662.9700	3007.1474	397.6220	19.6200	709.7704	635.3109	57.9200	309.7010
55	155.2730	309.7010	30.0050	0.0000	0.0000	2492.7000	2073.0791	92.1000	200.7010
64	0.0000	0.0000	309.7704	309.7010	.0775	.0707	.0775	.0237	0.0000
97	1445.0270	507.0007	920.4507	0.0000	275.1200	62.7003	88.4010	14.6322	110.0510
100	0.0000	0.0000	0.0000	110.0510	133.1700	2.7120	2.0000	12.2220	32.0000
115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	34.0001	53.1772	14.0000
145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.3477	.1560	.1400
165	4.3300	5.9397	2.7120	2.0000	12.2220	133.1700	32.0003	1.0000	.2500
194	.3500	2.7120	2.0000	12.2220	.2500	.3500	1.0000	0.0000	0.0000
203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
221	110.0510	133.1700	2.7120	2.0000	12.2220	32.0003	34.0001	53.1772	14.0000

100 --=SECTION W/FINCH DATA--=

331	3.5027	5.3709	3.1024	2.2000	3.5173	.0300	.0500	0.0000	0.0000
340	0.0000	0.0000	0.0000	0.0000	.4900	.7433	.1001	.1222	0.0000
349	0.0000	0.0000	0.0000	0.0000	.0200	.0300	.0152	.0216	.1200
350	0.3023	0.0000	0.1020	.0000	.0000	0.0000	0.0000	0.0000	0.0000
367	0.0000	0.0000	0.0000	0.0000	21.0000	0.0000	0.0000	.1615	2.7120
376	2.0000	12.2220	133.1700	32.0003	0.0000	25.4107	21.0000	.9553	2.7000
385	.6190	0.0000	435.4450	0.0000	110.0510	0.0000	427.7533	0.0000	0.0000

100 --=JOINTS/BLND DATA--=

1	14.4100	25.2250	10.0101	170.3970	.0000	.1500	.1500	1.0000	0.0000
4	05.0120	1.7050	75.0000	.7500	10.5000	.4253	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CASE 1 PANEL 12 DATA. TOGW=316100.0 DGM=316100.0 TGM=2 MODM=1 IOP=0 T=

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

PRIM - IP(29) *

---CENTER-SECTION DATA --- LB/AV---

---DETAIL WEIGHT DATA---

TSS	3049.8954	76.2474	901.7278	1347.2179	209.5413	102.9443	81.6040	50.7570	538.3444
1	352.5532	10.8302	806.7160	528.3054	12.1945	12.7372	90.2071	14.3901	67.2139
19	356.1032	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	224.0000	224.0000
28	77.7000	43.0769	37.3376	7.8477	1.2528	1.3456	1.1264	1.1724	75.5000
37	280.5952	17.8052	.7431	1.6765	0.0000	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	546.0684	0.0000	0.0000
TWT	15.8442	18.2263	5.4299	8.1347	1.2411	.5278	.4294	.0912	3.2543
331	2.1338	.0377	4.8826	3.1976	.0546	.0940	.1062	.4338	.3212
349	0.0000	0.0000	0.0000	1.5497	1.1657	6.1115	356.1032	17.8052	6.1115
358	9.1552	1.4557	.7971	.6208	.0871	3.6702	2.4035	.0368	5.4998
367	3.6017	.0536	.0699	.0790	.7272	.5418	0.0000	0.0000	0.0000
376	3.4912	2.6261	13.7479	75.5080	280.5962	25.4102	21.0685	.9553	2.7647
385	.6198	0.0000	435.4958	0.0000	118.0513	0.0000	427.7533	0.0000	0.0000

PRIM - IP(29) *

CASE 1 TOGW=316100.0 DGM=316100.0 TGM=2 MODM=1 IOP=0 T=

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

PIVOT AND DELTA T.R. AT SUMMARY

TSS	2204.344	55.1109	623.999	587.914	116.024	142.746	168.714	41.290	514.645	81.074
1	22.324	346.443	207.751	33.498	15.754	126.507	20.171	144.541	504.051	0.000
21	0.000	0.000	0.000	0.000	0.000	224.000	224.000	77.700	43.077	37.334
31	5.633	1.253	1.346	1.171	1.171	34.531	464.520	25.203	.743	1.477
41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TWT	14057.943	4705.522	4874.221	40.477	1130.794	929.373	1572.560	1384.535	3407.240	752.620
11	545.442	2858.741	1377.401	642.079	201.544	727.829	247.875	1324.684	0.000	0.000
21	0.000	40.477	0.000	0.000	0.000	0.000	0.000	0.000	0.000	583.723
31	245.273	258.618	202.092	90.839	445.247	23.446	394.481	32.495	165.534	23414.784
41	23916.184	0.000	0.000	10.978	21916.784	16057.083	1300.751	5435.424	583.336	34.484
TWT	9.644	11.504	3.745	3.509	.687	.725	.863	.114	3.145	.404
331	.103	2.097	1.257	.155	.114	.169	.600	.714	0.000	0.000
341	0.000	1.658	2.564	5.574	504.051	25.203	4.217	3.450	.406	1.107
361	1.308	.117	3.563	.559	.115	2.342	1.414	.171	.086	.111
371	1.021	1.197	0.000	0.000	0.000	3.735	5.780	12.557	34.531	446.520
381	17.224	14.272	.955	1.581	.420	0.000	415.412	0.000	42.223	0.000
391	504.846	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.075	0.000

•• PRFA - IP(29) •

CASE 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
 PAGE 13 C 141 TEST CASE
 ---NO. 1 ---
 IOPI=0 NOFW=1 IGW=2 DSW= 314100.0 N7= 2.500/-1.000

---SECTION GEOMETRY SUMMARY---

SECT.	YSLC	WIDTH	DAVF	DFS	DRS	C-AERO	Y-RU	Y-RL
MOU1	44.942	142.718	43.077	27.915	45.354	346.694	.5505	.4333
2	141.362	134.699	34.119	25.085	39.174	332.474	.5293	.4287
3	277.782	126.680	33.041	22.202	32.924	298.254	.5086	.4207
4	374.202	118.662	27.944	19.248	26.605	244.034	.4671	.3970
5	470.621	110.643	23.525	17.119	20.381	234.787	.4477	.3796
6	567.041	102.624	21.615	15.725	18.730	217.771	.3776	.3166
7	663.451	94.606	19.784	14.332	17.078	200.755	.3146	.2509
8	759.841	86.587	17.794	12.939	15.426	183.739	.2586	.1660
9	856.301	78.568	15.843	11.545	13.775	166.723	.2383	.0981
10	952.720	70.549	13.973	10.152	12.123	149.707	.2127	.1494
IP	1025.035	64.535	12.540	9.107	10.885	136.945	.2571	.1574

•• TAFM - 10/10/10 ••

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*****DATA SUMM. WCG AND CTM- ARWAY*****

.. WNUATA - (P,14) ..

IGW 2

WCG					
1	0.	.3490044E+03	0.	0.	.94445480E+03
4	0.	0.	.7903237F+03	0.	0.
11	.33434310E+03	0.	0.	.37410770E+03	0.
14	0.	.45744044E+03	0.	0.	.42231356E+03
21	0.	0.	.73434310E+03	0.	0.
26	.JMM50000E+02	0.	0.	.A0306578E+03	0.
31	0.	.49404421E+02	0.	0.	.33434310E+03
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	.36507728F+03
51	0.	0.	.93114545F+03	0.	0.
54	.34457581E+03	0.	0.	.10437121E+01	0.
61	0.	.34501728F+03	0.	0.	.93114545F+03
64	0.	0.	.79957541F+03	0.	0.
71	.10437121E+01	0.	0.	.45340296E+03	0.
74	0.	.84945515E+03	0.	0.	.66778247E+03
81	0.	0.	.77434310F+03	0.	0.
86	.40274610E+03	0.	0.	.10524474E+04	0.
91	0.	.48315540F+03	0.	0.	.33434310E+03
96	0.	0.	.94734087F+03	0.	0.
101	.12037524E+04	0.	0.	.10423591E+04	0.
104	0.	.15135055E+02	0.	0.	.76507728F+03
111	0.	0.	.93114545F+03	0.	0.
116	.39957581E+03	0.	0.	.10437121E+01	0.
121	0.	0.	0.	0.	0.
CTM					
1	.21064452E+02	.14344345E+02	.17517107F+02	.15041803E+02	.17946233E+02
6	.47304170E+01	.70076717F+01	.47571713F+01	.30433674E+01	.70494953F+01
11	.17730308E+01	.43549544E+03	0.	.74550745E+02	0.
14	.54044254E+03	0.	0.	0.	0.
21	0.	.20294465E+02	.70724735F+12	.51279674E+12	.34990270F+12
26	.21533045E+12	.13273492E+12	.93141544E+11	.67010444E+11	.38414491E+11
31	.20073177E+11	.A2722152E+10	.41625517F+10.	.39723273E+12	.30324614E+12
36	.22116141E+12	.14856074E+12	.10456364E+12	.80411996E+11	.55521247E+11
41	.34770548E+11	.14415443F+11	.71161058E+10	.35000000E+10.	.10500000E+08
46	.39000000E+07	.10100000E+00	.14550278F+04	.17436049E+04	.15754197E+04
51	.13500445E+04	.10974575E+04	.A0933002E+03	.54000045E+03	.37429969E+03
56	.25053215E+03	.14310237E+03	.14550278F+04	.17436049E+04	.15754197E+04
61	.13500445E+04	.10474575E+04	.A0433002F+03	.54000045E+03	.37429969E+03
66	.24053215E+03	.14310237E+03	0.	0.	.24940000F+02
71	0.	.24940000E+02	0.	0.	0.
76	0.	0.	.41474026F+00	.70745095E+00	.47361341E+00
81	.52424148E+00	.44597041E+00	.77784059F+00	.30710747E+00	.24107297E+00
86	.17940137E+00	.12364015E+00	.44325744F+01	0.	0.
91	0.	0.	.44325744F+01	.10446193E+01	.16440257E+01
96	.17183268E+01	.13157404E+01	.446056617F+00	0.	.36441746E+05
101	.33314603E+05	0.	.31261424F+04	.23444903E+05	.13997534E+04
106	.74143457E+04	.81257544F+03	.79445117E+02	.41445849E+03	.12706219E+04
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	.14779152F+00	.31292119E+00	.20072593F+01
136	0.	.22000000E+02	.15735188F+00	.66215733E+00	.75512738E+02
141	.20430442E+07	.71017543E+07	.A4145441E+01	0.	.11526465E+01
146	.56231655E+00	.64145441E+01	.40000000F+01	.20133714E+02	.64145441E+01

**** PR TD ****

STIFFENED SKIN/MULTI-RIB-000-
AUGUST 1973

WEIGHT--LB/AV			-****TOTAL WEIGHT SUMMARY-****-						*C.C.--FS*			*AREA*	
	GM(1)	GM(2)	GM(3)	*UNIT WEIGHT--LI/SF*			*C.C.--RP*				SF/AV		
TOTAL**	0.0	32045.8	0.0	0.0	10.67	0.0	0.0	371.6	0.0	0.0	941.7	0.0	3002.5
WALLS	0.0	29611.6	0.0	0.0	11.10	0.0	0.0	394.0	0.0	0.0	963.4	0.0	2667.6
DOORS	0.0	2434.2	0.0	0.0	10.67	0.0	0.0	38.6	0.0	0.0	103.1	0.0	241.7
WINDOT*	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
-OUTER PANEL COMPONENTS-													
DOOR /	0.0	21614.0	0.0	0.0	15.98	0.0	0.0	391.2	0.0	0.0	942.7	0.0	1352.6
WALL /	0.0	1399.8	0.0	0.0	4.44	0.0	0.0	453.6	0.0	0.0	894.6	0.0	315.2
WALL /	0.0	5835.8	0.0	0.0	5.28	0.0	0.0	411.6	0.0	0.0	1056.7	0.0	1105.9
WALL /	0.0	39.9	0.0	0.0	0.97	0.0	0.0	947.4	0.0	0.0	1203.8	0.0	41.2
WALL /	0.0	722.2	0.0	0.0	0.27	0.0	0.0	391.3	0.0	0.0	942.7	0.0	2667.6
WALL /	0.0	3834.3	0.0										
WALL /	0.0	28.0	0.0										
GM(1)= 0.0 TCGW(2)= 316100.0 TCGW(3)= 0.0 +NZ= 2.500 +NZG= C.C. FL(TOT)=116940.0 MATL NO= 6													
GM(1)= 0.0 DGW(2)= 316100.0 DGW(3)= 0.0 -NZ= 1.000 -NZG= G.0 FL(DFS)=116939.9 YCP= 418.0													

CASE 1

-000-MINAL TECHNIQUE-BY STAIR WRIGHT-000-

PKTU - IP(37)

	---TOTAL SURFACE---			---INTER PANEL---			---CUTTER SECTION---		
	GA(1)	GA(2)	GW(1)	GW(1)	GW(2)	GW(3)	GW(1)	GW(2)	GW(3)
***TICKOUT-LX**	0.0	2464.1	0.0	0.0	21814.0	0.0	0.0	2434.2	0.0
UPPER COVER	0.0	885.0	0.0	0.0	7542.2	0.0	0.0	911.0	0.0
SKINS	0.0	5694.6	0.0	0.0	5154.2	0.0	0.0	534.3	0.0
STRG.	0.0	2447.5	0.0	0.0	2215.5	0.0	0.0	347.0	0.0
MISC. SK.	0.0	516.0	0.0	0.0	500.4	0.0	0.0	15.6	0.0
LOWER COVER	0.0	7813.1	0.0	0.0	7114.2	0.0	0.0	688.4	0.0
SKINS	0.0	5206.8	0.0	0.0	4903.4	0.0	0.0	403.4	0.0
STRG.	0.0	1400.4	0.0	0.0	1643.4	0.0	0.0	287.5	0.0
MISC. SK.	0.0	141.4	0.0	0.0	167.3	0.0	0.0	16.1	0.0
WINGS	0.0	445.6	0.0	0.0	3444.6	0.0	0.0	547.4	0.0
INTERM.	0.0	2111.7	0.0	0.0	2416.1	0.0	0.0	209.8	0.0
BULKHEADS	0.0	434.4	0.0	0.0	433.4	0.0	0.0	0.0	0.0
RT/L-L	0.0	542.4	0.0	0.0	403.0	0.0	0.0	337.9	0.0
FRONT SPAN	0.0	1001.4	0.0	0.0	967.3	0.0	0.0	101.2	0.0
CAPS	0.0	122.7	0.0	0.0	123.2	0.0	0.0	9.4	0.0
WEB	0.0	635.8	0.0	0.0	444.1	0.0	0.0	91.8	0.0
REAR SPAN	0.0	1324.1	0.0	0.0	1245.3	0.0	0.0	76.8	0.0
CAPS	0.0	150.4	0.0	0.0	140.2	0.0	0.0	10.6	0.0
WEB	0.0	1173.3	0.0	0.0	1105.1	0.0	0.0	66.2	0.0
MISC. ATT.	0.0	464.4	0.0	0.0	342.5	0.0	0.0	47.4	0.0
STONE FTG.	0.0	21.0	0.0	0.0	28.0	0.0			
---TRAILING EDGE---									
FIXED STR	0.0	1264.0	0.0	*FIXED STR*	0.0	1952.5	0.0		
DEV. NO. 1	0.0	0.0	0.0	*T.O. FLAPS*	0.0	2414.7	0.0		
DEV. NO. 2	0.0	0.0	0.0	*SPILLERS*	0.0	725.3	0.0		
DEV. NO. 3	0.0	0.0	0.0	*AILERONS*	0.0	743.3	0.0		
---FLUTTER STIFFNESS SUMMARY---CUTTER-PANEL---									
UPPER COVER					LOWER COVER				
CONV-U./-L./F.S.	0.0	1283.4	0.0	0.0	206.9	0.0	0.0	0.0	0.0
SH.-H./-L./F.S.	0.0	1124.8	0.0	0.0	193.3	0.0	0.0	234.3	0.0
STR-U./-L./F.S.	0.0	147.0	0.0	0.0	75.2	0.0	0.0	301.5	0.0
M-SH.-U./-L./F.S.	0.0	0.0	0.0	0.0	0.4	0.0	0.0	6.2	0.0

---MISC, SIMULTANEOUS AND CONTINGENT WEIGHT DISTRIBUTION SUMMARY---CF1 ANHAY---00 WDATA = IP(44) 0

1	0	0	0	0	0
11	0	0	0	0	0
10	0	0	0	0	0
21	0	0	0	0	0
20	0	0	0	0	0
31	0	0	0	0	0
30	0	0	0	0	0
41	0	0	0	0	0
40	0	0	0	0	0
51	0	0	0	0	0
50	0	0	0	0	0
61	0	0	0	0	0
60	0	0	0	0	0
71	0	0	0	0	0
70	0	0	0	0	0
81	0	0	0	0	0
80	0	0	0	0	0
91	0	0	0	0	0
90	0	0	0	0	0
101	0	0	0	0	0
100	0	0	0	0	0
111	0	0	0	0	0
110	0	0	0	0	0
121	0	0	0	0	0
120	0	0	0	0	0
131	0	0	0	0	0
130	0	0	0	0	0
141	0	0	0	0	0
140	0	0	0	0	0

---FUEL CELL 1 WEIGHT DISTRIBUTION SUMMARY---CF1 ANHAY---00

00 WDATA = IP(44) 0

1	0	0	0	0	0
11	0	0	0	0	0
10	0	0	0	0	0
21	0	0	0	0	0
20	0	0	0	0	0
31	0	0	0	0	0
30	0	0	0	0	0
41	0	0	0	0	0
40	0	0	0	0	0
51	0	0	0	0	0
50	0	0	0	0	0
61	0	0	0	0	0
60	0	0	0	0	0
71	0	0	0	0	0
70	0	0	0	0	0
81	0	0	0	0	0
80	0	0	0	0	0
91	0	0	0	0	0
90	0	0	0	0	0
101	0	0	0	0	0
100	0	0	0	0	0
111	0	0	0	0	0
110	0	0	0	0	0
121	0	0	0	0	0
120	0	0	0	0	0
131	0	0	0	0	0
130	0	0	0	0	0
141	0	0	0	0	0
140	0	0	0	0	0

---FUEL CELL 2 WEIGHT DISTRIBUTION SUMMARY---CF2 ANHAY---00

00 WDATA = IP(44) 0

1	0	0	0	0	0
11	0	0	0	0	0
10	0	0	0	0	0
21	0	0	0	0	0
20	0	0	0	0	0
31	0	0	0	0	0
30	0	0	0	0	0
41	0	0	0	0	0
40	0	0	0	0	0
51	0	0	0	0	0
50	0	0	0	0	0
61	0	0	0	0	0
60	0	0	0	0	0
71	0	0	0	0	0
70	0	0	0	0	0
81	0	0	0	0	0
80	0	0	0	0	0
91	0	0	0	0	0
90	0	0	0	0	0
101	0	0	0	0	0
100	0	0	0	0	0
111	0	0	0	0	0
110	0	0	0	0	0
121	0	0	0	0	0
120	0	0	0	0	0
131	0	0	0	0	0
130	0	0	0	0	0
141	0	0	0	0	0
140	0	0	0	0	0

•• MODA!A - (P. 78) •

.. WNDATA - [P,39) ..

-00-1(0)YAB DATA FOR IN,LE,TE,MISC,COL,FL1,FL2,(FLEX LOADS, AERO SYSTEM)--CLOY ARRAY--00-

**** ALGATE - 121361 ****

-*-SURFACE DEPTH SUMMARY--*-

*PANEL 17611A 4101 EXPOSED PANEL CG---PER SIDE**

NOTE--DOES NOT INCLUDE C-200 OR FIVE.
-OTHER PANEL MASS DATA INCLUDED WITH MISC CONTENTS.

CC1					
1	.47306441E+05	.20110064E+05	.17634747E+05	.13724455E+05	.48146244E+04
6	.14464300E+04	.05304574E+04	.54009544E+04	.47744410E+04	.33444565E+04
11	.22443609E+04	.36741707E+03	.11427401E+03	.21744344E+03	.28304412E+03
16	.41544470E+03	.40704317E+03	.46134371E+03	.64474740E+03	.73765099E+03
21	.42551047E+03	.40420494E+03	.94205941E+03	.81144457E+03	.46545722E+03
26	.94145526E+03	.94704304E+03	.14414493E+04	.14414544E+04	.10534426E+04
31	.10424956E+04	.11314344E+04	.11744990E+04	.15944241E+04	.44407412E+04
36	.73454477E+04	.17444353E+04	.41524274E+04	.17447644E+04	.95303434E+04
41	.47453311E+07	.47624420E+07	.31467918E+07	.14441693E+07	.47975552E+10
46	.14442446E+04	.31441440E+04	.74474427E+04	.14442023E+04	.75444926E+04
51	.44423740E+07	.37047434E+07	.79154404E+07	.22414447E+07	.11430633E+07
56	.41756375E+10	.71027144E+04	.44564736E+04	.16444744E+04	.47451015E+04
61	.14774121E+04	.14015424E+04	.14562939E+04	.77544949E+07	.54645177E+07
66	.24391444E+07	.10437444E+05	.33025370E+04	.24442744E+04	.23371943E+04
71	.21484504E+04	.14447047E+04	.17825444E+04	.10447743E+04	.44444940E+03
76	.41174441E+03	.33047434E+03	.37804402E+03	.11446442E+03	.20955246E+03
81	.29655441E+03	.34442413E+03	.44444496E+03	.56140744E+03	.44485662E+03
86	.73704475E+03	.42440617E+03	.94473460E+03	.91724116E+03	.79429444E+03
91	.47443424E+03	.44443104E+03	.94104440E+03	.97473127E+03	.10426305E+04
96	.14437444E+04	.10412705E+04	.11194444E+04	.11417644E+04	.23223244E+09
101	.17217053E+08	.13034402E+04	.44596532E+07	.64252044E+07	.51432551E+07
106	.32643274E+07	.22442677E+07	.14384952E+07	.10447744E+07	.40722474E+04
111	.80419077E+09	.30444624E+07	.21344448E+07	.17442674E+07	.17170744E+07
116	.13734127E+07	.96004544E+04	.74937777E+04	.54443443E+04	.40455414E+04
121	.14764751E+04	.10324433E+10	.19521274E+04	.14443343E+04	.10316347E+08
126	.73494424E+07	.63195150E+07	.44404447E+07	.29443567E+07	.21539751E+07
131	.14442446E+07	.44442446E+04	.14444443E+05	.14441222E+03	.13041612E+04
136	.67624404E+04	.13444511E+04	.66110017E+04	.79144915E+07	.44477744E+02
141	.50354437E+02	.33443066E+02	.44746444E+02	.37443044E+03	.12125237E+03
146	.27704427E+03	.24522244E+03	.44442351E+03	.44419024E+03	.56143717E+03
151	.64433375E+03	.73745442E+03	.42444574E+03	.92724374E+03	.10647955E+04
156	.72424529E+03	.45426445E+03	.10491055E+04	.10743121E+04	.11191347E+04
161	.44415328E+03	.99938471E+03	.14444435E+04	.10441417E+04	.11394723E+04
166	.79104445E+09	.20275472E+05	.21242110E+08	.48442672E+04	.20774380E+04
171	.42644010E+04	.44315173E+04	.44558552E+04	.54474437E+04	.35514571E+04
176	.32472944E+05	.33831071E+04	.10223344E+06	.13444144E+08	.73206315E+08
181	.14410424E+08	.64492144E+04	.42444413E+05	.42744824E+05	.32749468E+05
186	.23142451E+05	.27303124E+05	.44557979E+04	.11174444E+04	.12403947E+04
191	.44415876E+08	.11444552E+04	.76444352E+08	.54744254E+05	.47964478E+05
196	.37143229E+05	.26362444E+05	.59104274E+05	.59171644E+05	.16663615E+05
201	.13677535E+05	.42289524E+04	.12476734E+04	.59445894E+04	.54767139E+04
206	.42453441E+04	.34474442E+04	.27367590E+04	.14744445E+04	.36247566E+03
211	.11442417E+03	.20431444E+03	.27223390E+03	.41741144E+03	.47370777E+03
216	.56132474E+03	.64495047E+03	.74779524E+03	.82544933E+03	.44445441E+03
221	.43044003E+03	.81559445E+03	.46302431E+03	.94474637E+03	.44444472E+03
226	.47644256E+03	.10182311E+04	.14573215E+04	.10441821E+04	.11352442E+04
231	.11762143E+04	.81417444E+04	.29444534E+08	.24234518E+08	.47297926E+07
236	.64332657E+06	.75472701E+07	.57006214E+07	.41541144E+07	.24512577E+07
241	.14460769E+07	.43444747E+04	.74504933E+10	.15145542E+04	.10022111E+08
246	.10531466E+07	.15950414E+06	.44325931E+07	.34542219E+07	.24447156E+07
251	.23154027E+07	.18042649E+07	.94439754E+06	.44754044E+10	.44445667E+08
256	.44154444E+04	.73910442E+07	.94714441E+06	.11774895E+08	.93132444E+07
261	.71999641E+07	.52939144E+07	.37949526E+07	.19474110E+07	.54479144E+03
266	.22293436E+03	.18461244E+04	.95205961E+03	.36741747E+03	00
271	.31900522E+10	.34516443E+11	.47273147E+11	00	00

CTOT (CALLED FROM WFLDD) - IP(35) *

TT(1) = 121.797 TT(2) = 0.000

YC

1	.71142958E+03	.71142958E+03	.74675073E+03	.82254404E+03	.89833735E+03
6	.10057725E+04	.10610145E+04	.34958492E+03	.29434294E+03	.15158662E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 209.992 TT(2) = 0.000

YC

1	.75680933E+03	.75680933E+03	.79008866E+03	.86150056E+03	.93291245E+03
6	.10341371E+04	.10721756E+04	.31536627E+03	.27732775E+03	.14282379E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 298.187 TT(2) = 0.000

YC

1	.80218909E+03	.80218909E+03	.83342660E+03	.90045708E+03	.96748756E+03
6	.10625016E+04	.10833367E+04	.28114762E+03	.26031256E+03	.13406097E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 386.382 TT(2) = 0.000

YC

1	.84756884E+03	.84756884E+03	.87676453E+03	.93941360E+03	.10020627E+04
6	.10908662E+04	.10944978E+04	.24692897E+03	.24328736E+03	.12529814E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.

CASE NO. 1 ***FLEXIBLE LOADS GENERAL DATA. LC ARRAY DATA***

** WFLD **

1	0.3174441E+04	0.5171145E+03	0.93121145E+03	0.5160467E+06	2	10	1
5	0.4310511E+05	0.5171145E+03	0.5025904E+07	0.5125904E+07	2	10	5
10	0.1261841E+06	0.2574417E+06	0.4570755E+07	0.2500000E+01	2	10	10
15	-0.1001001E+01	0.2000000E+01	0.1000000E+01	-0.5000000E+00	2	10	15
20	0.2000000E+05	0.2250000E+06	0.5740000E+00	0.6140000E+00	2	10	20
25	0.0	0.0	0.0	0.0	2	10	25
30	0.0	0.1474000E+02	0.1030000E+03	0.2503449E+03	2	10	30
35	0.2005200E+07	0.8444444E+02	0.7764444E+02	0.2810444E+02	2	10	35
40	0.6467600E+02	0.2177001E+03	0.4174654E+00	0.6514744E+01	2	10	40
45	0.1444444E+03	0.1764444E+04	0.1644444E+03	0.2540475E+03	2	10	45
50	0.4304444E+03	0.5144444E+03	0.6044444E+03	0.6950444E+03	2	10	50
55	0.6714444E+03	0.4376374E+03	0.3774444E+00	0.0	2	10	55
60	0.0	0.0	0.0	0.0	2	10	60
65	0.0	0.0	0.0	0.0	2	10	65
70	0.0	0.0	0.0	0.0	2	10	70
75	0.0	0.0	0.0	0.0	2	10	75
80	0.0	0.0	0.0	0.0	2	10	80
85	0.0	0.0	0.0	0.0	2	10	85
90	0.0	0.0	0.0	0.0	2	10	90
95	0.0	0.0	0.0	0.0	2	10	95
100	0.9400000E+02	0.7410000E+03	0.3270000E+00	0.5000000E+02	2	10	100
105	0.2644444E+02	0.2247444E+02	0.1714444E+04	0.1640750E+03	2	10	105
110	0.5240000E+01	0.4834000E+03	0.5034444E+02	0.0	2	10	110
115	0.3020791E+02	0.8041545E+02	0.9062393E+02	0.120E3191E+03	2	10	115
120	0.1612474E+03	0.7114554E+03	0.2414444E+03	0.2714715E+02	2	10	120
125	0.3944444E+00	0.0	0.0	0.0	2	10	125
130	0.0	0.0	0.0	0.0	2	10	130
135	0.0	0.0	0.3144444E+02	0.3267813E+02	2	10	135
140	0.2824760E+03	0.5667243E+00	0.1321444E+01	0.4621444E+03	2	10	140
145	0.2342163E+02	0.2342163E+02	0.5112713E+02	0.7845263E+02	2	10	145
150	0.1324634E+03	0.1602441E+03	0.1872144E+03	0.2147801E+03	2	10	150
155	0.2843110E+02	0.2843110E+02	0.3944444E+00	0.2620787E+03	2	10	155
160	0.0	0.0	0.0	0.0	2	10	160
165	0.0	0.5044444E+00	0.6304444E+00	0.6700000E+00	2	10	165
170	0.0	0.0	0.0	0.0	2	10	170

CASE NO. 1 ***FLEXIBLE LOADS INERTIA DATA. BF ARRAY DATA***

** WFLD **

1	0.00000	0.0	2	1F	1			
3	23.63147	768.74447	2	1F	3			
5	0.1941526E+05	0.1707519E+05	0.1294068E+05	0.4462421E+04	0.1441221E+05	2	1F	5
10	0.6540790E+04	0.5412764E+04	0.4344633E+04	0.3387122E+04	0.2257325E+04	2	1F	10
15	0.4115644E+00	0.3597145E+00	0.5280330E+01	0.3415206E+00	0.9378516E+01	2	1F	15
20	0.3898216E+00	0.3861522E+00	0.3676951E+00	0.3679314E+00	0.3607766E+00	2	1F	20
25	0.0	0.0	0.0	0.0	0.0	2	1F	25
27	0.0	0.0	0.0	0.0	0.0	2	1F	27
32	0.0	0.0	0.0	0.0	0.0	2	1F	32
37	0.0	0.0	0.0	0.0	0.0	2	1F	37
42	0.0	0.0	0.0	0.0	0.0	2	1F	42
47	0.8494235E+02	0.9343658E+02	0.1813620E+03	0.2777817E+03	0.3742011E+03	2	1F	47
52	0.4706208E+03	0.5670405E+03	0.6634602E+03	0.7558798E+03	0.8562995E+03	2	1F	52
57	0.9527142E+03	0.1025034E+04	0.0	0.0	0.0	2	1F	57
62	0.0	0.0	0.0	0.0	0.0	2	1F	62
67	0.5273590E+12	0.5127773E+12	0.3611514E+12	0.2772941E+12	0.1878664E+12	2	1F	67
72	0.1343202E+12	0.1024137E+12	0.7004166E+11	0.4372234E+11	0.7371440E+11	2	1F	72
77	0.9727131E+10	0.4166923E+10	0.0	0.0	0.0	2	1F	77
82	0.0	0.0	0.0	0.0	0.0	2	1F	82
87	0.3134193E+12	0.3054877E+12	0.2399600E+12	0.2028382E+12	0.1665345E+12	2	1F	87
92	0.1303939E+12	0.9657647E+11	0.6667841E+11	0.4175482E+11	0.2235263E+11	2	1F	92
97	0.6543776E+10	0.3506445E+10	0.0	0.0	0.0	2	1F	97
102	0.0	0.0	0.0	0.0	0.0	2	1F	102
107	0.0	0.0	0.0	0.0	0.0	2	1F	107

♦♦ CTOT (CALLED FROM WVFD - LOOP 259) - IP(15) ♦

YC	TT(1) =	77.700	TT(2) =	0.000	
1	.68873970E+03	.68873970E+02	.72508177E+03	.80306578E+03	.88104979E+03
6	.99159024E+03	.10554339E+04	.36669424E+03	.30285054E+03	.15596803E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
15	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

YC	TT(1) = 165.899	TT(2) = 0.000		
1	.73412145E+03	.73412145E+03	.76842160E+03	.84202401E+03
6	.10199560E+04	.10665955E+04	.33247409E+03	.28583440E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00
21	0.	.28960000E+02	0.	.28960000E+02
26	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02

YC	TT(1) = 254.099	TT(2) = 0.000		
1	.77950319E+03	.81176143F+03	.8A098223E+03	.95020304E+03
6	.10483219E+04	.29825395E+03	.26A1866E+03	.13844161E+03
11	.10100000E+00	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.29331368F+00	.32415567E+00	0.
21	0.	0.	.28960000E+02	0.
26	0.	0.	0.	0.
31	0.	.28960000E+02	.28960000E+02	0.

YC	TT(1) = 342.296	TT(2) = 0.000	
1	.82488493E+03	.82488493E+03	.91994046E+03
6	.10766877E+04	.10889187E+04	.251A0272E+03
11	.10100000E+00	.81000000E+05	.10500000E+08
16	.45000000E+05	.97000000E+05	.32415567E+00
21	0.	.28960000E+02	.28960000E+02

ICS					
1	.47531232E+06	.74444544E+07	.17423527E+08	.45103290E+00	0.
6	.14111333E+05	.15744527E+08	.74536310E+08	.54541833E+01	0.
11	.13908332E+05	.10444204E+08	.29146449E+08	.72403239E+01	0.
16	.10000000E+01	0.	0.	0.	0.
21	.23172374E+04	.14437027E+07	.7342506E+07	.24494244E+02	0.
26	.47165404E+04	.42744444E+07	.10057444E+08	.64401090E+01	0.
31	.10000000E+01	0.	0.	0.	0.
36	.12444005E+04	.54944044E+07	.44444444E+07	.51057693E+01	0.
41	.40441340E+04	.44444444E+07	.44444444E+07	.44444444E+01	0.
46	.44444444E+04	.34444444E+07	.44444444E+07	.44444444E+01	0.
51	.34444444E+04	.31104731E+07	.29420447E+07	.44444444E+01	0.
56	.24444444E+04	.17113471E+07	.14444444E+07	.44444444E+01	0.
61	.12444444E+04	.44444444E+07	.71444444E+07	.44444444E+01	0.
66	.44444444E+04	.10000000E+01	.14271795E+03	.54444444E+01	0.
71	.34444444E+04	.44444444E+07	.44444444E+07	.14271795E+03	0.
76	.10774735E+12	.34444444E+07	.34444444E+07	.14271795E+03	0.
81	0.	.51279434E+12	.34444444E+07	.14271795E+03	0.
86	.12444444E+03	0.	.11444444E+03	.14271795E+03	0.
91	.44444444E+02	.12347093E+03	.72444444E+02	.11444444E+03	0.
96	.27444444E+02	.44444444E+02	.72444444E+02	.11444444E+03	0.
101	.14444444E+12	.23525147E+02	.72444444E+02	.11444444E+03	0.
106	.13273442E+12	.10444444E+12	.72444444E+02	.11444444E+03	0.
111	0.	.11444444E+12	.72444444E+02	.11444444E+03	0.
116	.10262425E+03	0.	.72444444E+02	.11444444E+03	0.
121	.44444444E+02	.44444444E+02	.72444444E+02	.11444444E+03	0.
126	.17744444E+02	.44444444E+02	.72444444E+02	.11444444E+03	0.
131	.34770544E+11	.15444444E+02	.72444444E+02	.11444444E+03	0.
136	.24073177E+11	.14444444E+11	.72444444E+02	.11444444E+03	0.
141	0.	.42722144E+10	.72444444E+02	.11444444E+03	0.
146	.44444444E+02	0.	.72444444E+02	.11444444E+03	0.
151	0.	0.	.72444444E+02	.11444444E+03	0.
156	.10000000E+01	.10000000E+01	.72444444E+02	.11444444E+03	0.
161	.30000000E+01	.30000000E+01	.72444444E+02	.11444444E+03	0.
166	.40000000E+01	.40000000E+01	.72444444E+02	.11444444E+03	0.
171	.50000000E+01	.50000000E+01	.72444444E+02	.11444444E+03	0.
176	.60000000E+01	.60000000E+01	.72444444E+02	.11444444E+03	0.
181	.70000000E+01	.70000000E+01	.72444444E+02	.11444444E+03	0.
186	.80000000E+01	.80000000E+01	.72444444E+02	.11444444E+03	0.
191	.90000000E+01	.90000000E+01	.72444444E+02	.11444444E+03	0.
196	.10000000E+02	.10000000E+02	.72444444E+02	.11444444E+03	0.
201	.11000000E+02	.11000000E+02	.72444444E+02	.11444444E+03	0.
206	.12000000E+02	.12000000E+02	.72444444E+02	.11444444E+03	0.
211	.13000000E+02	.13000000E+02	.72444444E+02	.11444444E+03	0.
216	.14000000E+02	.14000000E+02	.72444444E+02	.11444444E+03	0.
221	.15000000E+02	.15000000E+02	.72444444E+02	.11444444E+03	0.
226	.16000000E+02	.16000000E+02	.72444444E+02	.11444444E+03	0.
231	.17000000E+02	.17000000E+02	.72444444E+02	.11444444E+03	0.
236	.18000000E+02	.18000000E+02	.72444444E+02	.11444444E+03	0.
241	.19000000E+02	.19000000E+02	.72444444E+02	.11444444E+03	0.
246	.20000000E+02	.20000000E+02	.72444444E+02	.11444444E+03	0.
251	.21000000E+02	.21000000E+02	.72444444E+02	.11444444E+03	0.
256	.22000000E+02	.22000000E+02	.72444444E+02	.11444444E+03	0.
261	.23000000E+02	.23000000E+02	.72444444E+02	.11444444E+03	0.
266	.24000000E+02	.24000000E+02	.72444444E+02	.11444444E+03	0.
271	.25000000E+02	.25000000E+02	.72444444E+02	.11444444E+03	0.
276	.26000000E+02	.26000000E+02	.72444444E+02	.11444444E+03	0.
281	.27000000E+02	.27000000E+02	.72444444E+02	.11444444E+03	0.
286	.28000000E+02	.28000000E+02	.72444444E+02	.11444444E+03	0.
291	.29000000E+02	.29000000E+02	.72444444E+02	.11444444E+03	0.
296	.30000000E+02	.30000000E+02	.72444444E+02	.11444444E+03	0.
301	.31000000E+02	.31000000E+02	.72444444E+02	.11444444E+03	0.
306	.32000000E+02	.32000000E+02	.72444444E+02	.11444444E+03	0.
311	.33000000E+02	.33000000E+02	.72444444E+02	.11444444E+03	0.
316	.34000000E+02	.34000000E+02	.72444444E+02	.11444444E+03	0.
321	.35000000E+02	.35000000E+02	.72444444E+02	.11444444E+03	0.
326	.36000000E+02	.36000000E+02	.72444444E+02	.11444444E+03	0.
331	.37000000E+02	.37000000E+02	.72444444E+02	.11444444E+03	0.
336	.38000000E+02	.38000000E+02	.72444444E+02	.11444444E+03	0.
341	.39000000E+02	.39000000E+02	.72444444E+02	.11444444E+03	0.
346	.40000000E+02	.40000000E+02	.72444444E+02	.11444444E+03	0.
351	.41000000E+02	.41000000E+02	.72444444E+02	.11444444E+03	0.
356	.42000000E+02	.42000000E+02	.72444444E+02	.11444444E+03	0.
361	.43000000E+02	.43000000E+02	.72444444E+02	.11444444E+03	0.
366	.44000000E+02	.44000000E+02	.72444444E+02	.11444444E+03	0.
371	.45000000E+02	.45000000E+02	.72444444E+02	.11444444E+03	0.
376	.46000000E+02	.46000000E+02	.72444444E+02	.11444444E+03	0.
381	.47000000E+02	.47000000E+02	.72444444E+02	.11444444E+03	0.
386	.48000000E+02	.48000000E+02	.72444444E+02	.11444444E+03	0.
391	.49000000E+02	.49000000E+02	.72444444E+02	.11444444E+03	0.
396	.50000000E+02	.50000000E+02	.72444444E+02	.11444444E+03	0.
401	.51000000E+02	.51000000E+02	.72444444E+02	.11444444E+03	0.
406	.52000000E+02	.52000000E+02	.72444444E+02	.11444444E+03	0.
411	.53000000E+02	.53000000E+02	.72444444E+02	.11444444E+03	0.
416	.54000000E+02	.54000000E+02	.72444444E+02	.11444444E+03	0.
421	.55000000E+02	.55000000E+02	.72444444E+02	.11444444E+03	0.
426	.56000000E+02	.56000000E+02	.72444444E+02	.11444444E+03	0.
431	.57000000E+02	.57000000E+02	.72444444E+02	.11444444E+03	0.
436	.58000000E+02	.58000000E+02	.72444444E+02	.11444444E+03	0.
441	.59000000E+02	.59000000E+02	.72444444E+02	.11444444E+03	0.
446	.60000000E+02	.60000000E+02	.72444444E+02	.11444444E+03	0.
451	.61000000E+02	.61000000E+02	.72444444E+02	.11444444E+03	0.
456	.62000000E+02	.62000000E+02	.72444444E+02	.11444444E+03	0.
461	.63000000E+02	.63000000E+02	.72444444E+02	.11444444E+03	0.
466	.64000000E+02	.64000000E+02	.72444444E+02	.11444444E+03	0.
471	.65000000E+02	.65000000E+02	.72444444E+02	.11444444E+03	0.
476	.66000000E+02	.66000000E+02	.72444444E+02	.11444444E+03	0.
481	.67000000E+02	.67000000E+02	.72444444E+02	.11444444E+03	0.
486	.68000000E+02	.68000000E+02	.72444444E+02	.11444444E+03	0.
491	.69000000E+02	.69000000E+02	.72444444E+02	.11444444E+03	0.
496	.70000000E+02	.70000000E+02	.72444444E+02	.11444444E+03	0.
501	.71000000E+02	.71000000E+02	.72444444E+02	.11444444E+03	0.
506	.72000000E+02	.72000000E+02	.72444444E+02	.11444444E+03	0.
511	.73000000E+02	.73000000E+02	.72444444E+02	.11444444E+03	0.
516	.74000000E+02	.74000000E+02	.72444444E+02	.11444444E+03	0.
521	.75000000E+02	.75000000E+02	.72444444E+02	.11444444E+03	0.
526	.76000000E+02	.76000000E+02	.72444444E+02	.11444444E+03	0.
531	.77000000E+02	.77000000E+02	.72444444E+02	.11444444E+03	0.
536	.78000000E+02	.78000000E+02	.72444444E+02	.11444444E+03	0.
541	.79000000E+02	.79000000E+02	.72444444E+02	.11444444E+03	0.
546	.80000000E+02	.80000000E+02	.72444444E+02	.11444444E+03	0.
551	.81000000E+02	.81000000E+02	.72444444E+02	.11444444E+03	0.
556	.82000000E+02	.82000000E+02	.72444444E+02	.11444444E+03	0.
561	.83000000E+02	.83000000E+02	.72444444E+02	.11444444E+03	0.
566	.84000000E+02	.84000000E+02	.72444444E+02	.11444444E+03	0.
571	.85000000E+02	.85000000E+02	.72444444E+02	.11444444E+03	0.
576	.86000000E+02	.86000000E+02	.72444444E+02	.11444444E+03	0.
581	.87000000E+02	.87000000E+02	.72444444E+02	.11444444E+03	0.
586	.88000000E+02	.88000000E+02	.72444444E+02	.11444444E+03	0.
591	.89000000E+02	.89000000E+02	.72444444E+02	.11444444E+03	0.
596	.90000000E+02	.90000000E+02	.72444444E+02	.11444444E+03	0.
601	.91000000E+02	.91000000E+02	.72444444E+02	.11444444E+03	0.
606	.92000000E+02	.92000000E+02	.72444444E+02	.11444444E+03	0.
611	.93000000E+02	.93000000E+02	.72444444E+02	.11444444E+03	0.
616	.94000000E+02	.94000000E+02	.72444444E+02	.11444444E+03	0.
621	.95000000E+02	.95000000E+02	.72444444E+02	.11444444E+03	0.
626	.96000000E+02	.96000000E+02	.72444444E+02	.11444444E+03	0.
631	.97000000E+02	.97000000E+02	.72444444E+02	.11444444E+03	0.
636	.98000000E+02	.98000000E+02	.72444444E+02	.11444444E+03	0.
641	.99000000E+02	.99000000E+02	.72444444E+02	.11444444E+03	0.
646	.10000000E+03	.10000000E+03	.72444444E+02	.11444444E+03	0.
651	.10100000E+03	.10100000E+03	.72444444E+02	.11444444E+03	0.
656	.10200000E+03	.10200000E+03	.72444444E+02	.11444444E+03	0.
661	.10300000E+03	.10300000E+03	.72444444E+02	.11444444E+03	0.
666	.10400000E+03	.10400000E+03	.72444444E+02	.11444444E+03	0.
671	.10500000E+03	.10500000E+03	.72444444E+02	.11444444E+03	0.
676	.10600000E+03	.10600000E+03	.72444444E+02	.11444444E+03	0.
681	.10700000E+03	.10700000E+03	.72444444E+02	.11444444E+03	0.
686	.10800000E+03	.10800000E+03	.72444444E+02	.11444444E+03	0.
691	.10900000E+03	.10900000E+03	.72444444E+02	.11444444E+03	0.
696	.11000000E+03	.11000000E+03	.72444444E+02	.11444444E+03	0.
701	.11100000E+03	.11100000E+03	.72444444E+02	.1	

CASE NO. 1

****LUTHE OPTIMIZATION DATA (MOD. CASE INAC) DATA****

** PINTO **

0.10500000E+00	0.34000000E+07	0.10100000E+00	0.4447679E+04	0.12756152E+03	2	1	2	1
0.66000000E+00	0.66000000E+00	0.12293355E+02	0.11644445E+11		2	1	4	2
0.7769947E+07	-0.21323451E+11				2	1	5	3
0.95151289E+04	0.74333040E+07	0.17040070E+08	0.77610079E+00	0.0	2	1	6	4
0.17431840E+05	0.15109440E+06	0.35394672E+01	0.45398869E+01	0.0	2	1	6	5
0.13362449E+05	0.10371716E+01	0.74635146E+01	0.63645525E+01	0.0	2	1	6	6
0.10000000E+01	0.0	0.0	0.0	0.0	2	1	6	7
0.20265117E+04	0.17211100E+07	0.67645240E+07	0.26317399E+02	0.0	2	1	6	8
0.66266367E+04	0.41606700E+07	0.97107410E+07	0.57070002E+01	0.0	2	1	6	9
0.10000000E+01	0.0	0.0	0.0	0.0	2	1	6	10
0.72032617E+04	0.56750600E+07	0.66044900E+07	0.44479694E+01	0.0	2	1	6	11
0.60408398E+04	0.46491940E+07	0.62521640E+07	0.43013477E+01	0.0	2	1	6	12
0.48689214E+04	0.34710410E+07	0.41665120E+07	0.34790945E+01	0.0	2	1	6	13
0.36912544E+04	0.31106540E+07	0.26737600E+07	0.36261482E+01	0.0	2	1	6	14
0.26406300E+04	0.17094910E+07	0.16469730E+07	0.35999428E+01	0.0	2	1	6	15
0.11929740E+04	0.41106700E+06	0.64696414E+06	0.50880090E+01	0.0	2	1	6	16
1	0.70060000E+04	0.46397012E+06	0.10503990E+07	0.46397012E+06	0.9632256E+02	1	7	17
2	0.70771912E+06	0.10503990E+07	0.70771912E+06	0.21879501E+04	0.21879501E+04	2	1	7
3	0.71000000E+04	0.47526637E+06	0.96043294E+06	0.42326637E+06	0.42326637E+06	0.96374521E+02	1	7
4	0.62789240E+06	0.96043294E+06	0.62789240E+06	0.19810105E+09	0.19810105E+09	2	1	7
45.0E	1.0E	142.72	0.0	0.31341930E+12	0.0	0.0	2	1
45.0E	95.42	142.72	2.0E3	0.31341930E+12	0.0	0.0	2	1
36.12	96.42	136.70	0.0	0.36115146E+12	0.0	0.0	2	1
33.05	33.79	126.66	0.0	0.27729461E+12	0.0	0.0	2	1
31.28	62.04	174.87	0.0	0.24133026E+12	0.0	0.0	2	1
27.94	96.42	118.66	0.0	0.11701640E+12	0.0	0.0	2	1
25.43	32.26	117.04	0.0	0.15452023E+12	0.0	0.0	2	1
22.79	64.16	107.56	0.0	0.12646941E+12	0.0	0.0	2	1
21.61	96.42	102.62	0.0	0.10241370E+12	0.0	0.0	2	1
19.70	96.42	94.71	0.0	0.70041666E+11	0.0	0.0	2	1
17.79	96.42	86.54	0.0	0.43712567E+11	0.0	0.0	2	1
15.88	96.42	78.57	0.0	0.23714607E+11	0.0	0.0	2	1
13.47	72.32	70.55	0.0	0.97271316E+10	0.0	0.0	2	1
12.54	24.06	60.54	0.0	0.41669273E+10	0.0	0.0	2	1
12.06	0.0	62.53	0.0	0.29585765E+10	0.0	0.0	2	1
1	1	1	1	0.33256133E+10	0.0	0.0	2	1
2	2	2	2				2	1
3	3	3	3				2	1
4	4	4	4				2	1
5	5	5	5				2	1
6	6	6	6				2	1
7	7	7	7				2	1

7	8	9	10	11	12	13	14	15	11142
8	9	10	11	12	13	14	15		2
9	10	11	12	13	14	15			2
10	11	12	13	14	15				2
11	12	13	14	15					2
12	13	14	15						2
13	14	15							2
0.36669434E+03	0.38613057E+02	0.56945009E+01							2
0.33247388E+03	0.31443604E+02	0.56945009E+01							2
0.29625391E+03	0.34274170E+02	0.56945009E+01							2
0.39684106E+03	0.40524658E+02	0.56945009E+01							2
0.26402369E+03	0.32104492E+02	0.56945009E+01							2
0.23478662E+03	0.29434814E+02	0.56945009E+01							2
0.39664106E+03	0.40524658E+02	0.56945009E+01							2
0.21777075E+03	0.27765361E+02	0.56945009E+01							2
0.20075464E+03	0.25555947E+02	0.56945009E+01							2
0.18373877E+03	0.23426514E+02	0.56945009E+01							2
0.16672290E+03	0.21256136E+02	0.56945009E+01							2
0.14970703E+03	0.19067402E+02	0.56945009E+01							2
0.13694462E+03	0.17460205E+02	0.56945009E+01							2

OUTPUT TABLES AND CONTROLS

FUSELAGE STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for fuselage module
71	(11,0)	Fuselage	FUSLD	Fuselage loads data array
71	(11,0)	Fuselage	FUSLD	Inertia data array
71	(11,0)	Fuselage	FUSLD	Inertia data array and speed altitude profile data
74	(11,0)	Fuselage	DUMMY1	Input and corrected loads data
72	(11,0)	Fuselage	MATLP1	Cover material data
72	(11,0)	Fuselage	MATLP1	Longeron material data
72	(11,0)	Fuselage	MATLP1	Major frame material data
72	(11,0)	Fuselage	MATLP1	Minor frame material data
73	(11,0)	Fuselage	MFCNTL	TMS array - material properties for design conditions
74	(11,0)	Fuselage	FUSLD	Loads array for each of loading conditions
75	(11,0)	Fuselage	FRMND1	Major frame locations and shape
75	(11,0)	Fuselage	FFRME	Major frame external loading table all design condition

OUTPUT TABLES AND CONTROLS

FUSELAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
76	(11,0)	Fuselage	FRMLD	Major frame geometry and internal loads
76	(11,0)	Fuselage	SFOAWE	Major frame synthesis data
77	(11,0)	Fuselage	FFRME	Major frame detail weight summary
78	(12,0)	Fuselage	MINFR	T-array - minor frame data
79	(12,0)	Fuselage	FUSSHL	T-array - fuselage shell data
80	(12,0)	Fuselage	SPRINT	General construction indicators, flutter and pressure data
80	(12,0)	Fuselage	SPRINT	Basic vehicle data and coordinates for support points
80	(12,0)	Fuselage	SPRINT	Secondary structure indicators and geometric input data
80	(12,0)	Fuselage	SPRINT	Shell section input data
80	(12,0)	Fuselage	SPRINT	Shell criteria input data
80	(12,0)	Fuselage	SPRINT	Shell external geometry
80	(12,0)	Fuselage	SPRINT	Segment geometry and unit inertias

OUTPUT TABLES AND CONTROLS

FUSELAGE STRUCTURAL WEIGHT ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
80	(12,0)	Fuselage	SPRINT	Shell torsional geometry at cuts
80	(12,0)	Fuselage	SPRINT	Shell cutout data and bending stiffness
80	(12,0)	Fuselage	SPRINT	Shell cover synthesis data
80	(12,0)	Fuselage	SPRINT	Shell bending element synthesis data
80	(12,0)	Fuselage	SPRINT	Shell component weight table
80	(12,0)	Fuselage	SPRINT	Shell bending element weight table
-	(12,0)	Fuselage	SPRINT	Detail weight statement basic structure, always printed
-	(12,0)	Fuselage	SPRINT	Detail weight statement secondary structure always printed
-	(12,0)	Fuselage	SPRINT	Detail weight statement doors, panels and misc, always printed
-	(12,0)	Fuselage	SPRINT	Body group detail balance, always printed

•• OLAY00 - IP(40) •

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT
C 141 TEST CASE

AUGUST 1973

---NO. 1 ---

**** FUSELAGE (OVERLAYS 11 AND 12) ****

WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 4	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 5	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 6	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 7	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 8	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 9	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 10	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 11	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 12	CORRECTION IS 1.000
WARNING FROM GEOMF1 SHAPE IS ROUNDED RECT.	SECTION 13	CORRECTION IS 1.000

*** DATA FROM LOADS PROGRAM TRANSFERRED TO FUSELAGE PROGRAM IN RECORD 33 ***

CONDITION	LUT	LDC	TEMP	FAC1	FAC2	FAC3	UNIT	UNIT	SSPD	STNK	MACH	ALT	PZN	PCPN
1	2.	1.	45.3	1.50	2.50	0.00	0.000	0.000	0.00	0.00	.6000	0.	17023.	719.57
2	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
3	2.	1.	40.0	1.50	2.50	0.00	0.000	0.000	0.00	0.00	.8700	27500.	14611.	719.57
4	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
5	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
6	2.	1.	42.7	1.50	-1.00	0.00	0.000	0.000	0.00	0.00	.5740	0.	-7144.	719.57
7	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
8	2.	2.	40.0	1.50	2.00	0.00	0.000	0.000	0.00	0.00	.3334	0.	-2845.	719.57
9	2.	3.	40.0	1.50	1.00	0.00	0.000	0.000	10.00	28.00	.1469	0.	761.	719.57
10	2.	4.	42.7	1.50	2.47	0.00	-0.800	0.000	0.00	0.00	.5740	0.	14151.	719.57
11	2.	4.	40.0	1.50	2.44	0.00	-1.215	0.000	0.00	0.00	.8140	20000.	17540.	719.57
12	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
13	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
14	2.	4.	42.7	1.50	-0.47	0.00	0.000	0.000	0.00	0.00	.5740	0.	-4852.	719.57
15	2.	4.	40.0	1.50	-0.44	0.00	1.215	0.000	0.00	0.00	.8140	20000.	-5544.	719.57
16	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
17	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
18	2.	5.	42.7	1.50	1.00	.20	0.000	-0.203	0.00	0.00	.5740	0.	7134.	719.57
19	2.	5.	40.0	1.50	1.00	.20	0.000	-0.221	0.00	0.00	.8140	20000.	5948.	719.57
20	2.	6.	45.3	1.50	1.24	0.00	0.000	0.000	0.00	0.00	.6000	0.	4573.	719.57
21	2.	6.	40.0	1.50	1.24	0.00	0.000	0.000	0.00	0.00	.8700	22500.	7933.	719.57
22	2.	7.	45.3	1.50	1.00	.31	0.000	-0.500	0.00	0.00	.6000	0.	7044.	719.57
23	2.	7.	40.0	1.50	1.00	.31	0.000	-0.500	0.00	0.00	.8700	22500.	5444.	719.57
24	2.	8.	40.0	1.50	2.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00

CONDITION	P/PH	ACPH	YCPH	P/L	ACPH	YCPH	P/V	ACPH	ZCPH	WING	APL
1	104772.	474.08	466.84	-10448.	1821.76	137.40	0.	1704.	0.00	648.7	
2	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
3	100848.	1003.61	474.00	-40403.	1827.44	135.48	0.	1712.	0.00	648.7	
4	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
5	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
6	-247454.	474.25	467.13	3940.	1821.64	137.43	0.	1704.	0.00	648.7	
7	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
8	544305.	472.17	345.46	-19440.	1821.41	137.37	0.	1704.	0.00	648.7	
9	244511.	474.50	465.59	-5444.	1821.66	137.19	0.	1704.	0.00	648.7	
10	642521.	474.26	467.13	53074.	1821.64	137.43	0.	1704.	0.00	648.7	
11	736145.	484.22	461.44	54679.	1824.06	136.69	0.	1707.	0.00	648.7	
12	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
13	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
14	-74404.	474.26	467.13	-41034.	1821.64	137.43	0.	1704.	0.00	648.7	
15	-147340.	484.22	461.44	-74007.	1824.06	136.69	0.	1707.	0.00	648.7	
16	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
17	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	
18	204654.	474.26	467.13	-3940.	1821.64	137.43	49963.	1704.	422.02	648.7	
19	244342.	484.22	461.44	-10164.	1824.06	136.69	52875.	1707.	419.47	648.7	
20	385548.	474.08	466.84	-40059.	1821.76	137.40	0.	1704.	0.00	648.7	
21	402247.	1003.61	474.00	-56076.	1827.44	135.44	0.	1712.	0.00	648.7	
22	244404.	474.08	466.84	-4359.	1821.76	137.40	99562.	1704.	421.89	648.7	
23	244354.	1003.61	474.00	-16321.	1827.44	135.48	98521.	1712.	416.30	648.7	
24	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0	

•• FUSLO - IP(71) •

*** FUSELAGE INERTIA AND WEIGHT DISTRIBUTION DATA IN RECORD 34 ***

	DESIGN WEIGHT WING AFT CONDITIONS 1,2,3,4,6, 10,11,14,15, 18,19,20,21, 22 AND 23	DESIGN WEIGHT WING FWD CONDITIONS 5,7,12,13, 16 AND 17	MANEUVER WEIGHT CONDITION A	FLIGHT LANDING WEIGHT CONDITION Y	TAXI WEIGHT CONDITION 24
DGW	316100.0	316100.0	318000.0	257500.0	318000.0
ACG	931.7	931.7	931.2	933.0	931.2
YCG	0.0	0.0	0.0	0.0	0.0
ZCG	250.0	250.0	250.2	242.3	250.2
IIXX	0.0	0.0	0.0	0.0	0.0
IYY	23464771623.3	23464771623.3	23487278536.3	22571407792.5	23487278536.3
IIZZ	54402629113.1	54402629113.1	56052997966.4	48136154420.1	56052997966.4
MWI	188528.1	188528.1	190428.1	129928.1	190428.1
XWCG	921.1	921.1	920.5	919.1	920.5
YWCG	382.5	382.5	380.7	395.1	380.7
ZWCG	267.5	267.5	267.7	260.1	267.7
WIOX	0.0	0.0	0.0	0.0	0.0
WIOY	3492732035.7	3492732035.7	3510823363.7	2660217525.8	3510823363.7
WIOZ	40148532182.2	40148532182.2	40254102329.3	28882857406.7	40254102329.3
MWI	4546.3	4546.3	4546.3	4546.3	4546.3
XWCG	1847.4	1847.4	1847.4	1847.4	1847.4
YWCG	100.7	100.7	100.7	100.7	100.7
ZWCG	558.7	558.7	558.7	558.7	558.7
MIOX	0.0	0.0	0.0	0.0	0.0
MIOY	7134973.2	7134973.2	7134973.2	7134973.2	7134973.2
MIOZ	76278377.6	76278377.6	76278377.6	76278377.6	76278377.6
VWI	2567.5	2567.5	2567.5	2567.5	2567.5
XVCG	1751.0	1751.0	1751.0	1751.0	1751.0
YVCG	0.0	0.0	0.0	0.0	0.0
ZVCG	376.9	376.9	376.9	376.9	376.9
VIOX	0.0	0.0	0.0	0.0	0.0
VIOY	21242854.5	21242854.5	21242854.5	21242854.5	21242854.5
VIOZ	10639035.7	10639035.7	10639035.7	10639035.7	10639035.7
AJWI	0.0	0.0	0.0	0.0	0.0
XACG	0.0	0.0	0.0	0.0	0.0
YACG	0.0	0.0	0.0	0.0	0.0
ZACG	0.0	0.0	0.0	0.0	0.0
AIOX	0.0	0.0	0.0	0.0	0.0
AIOY	0.0	0.0	0.0	0.0	0.0
AIOZ	0.0	0.0	0.0	0.0	0.0
SIWI	0.0	0.0	0.0	0.0	0.0
XSI	0.0	0.0	0.0	0.0	0.0
YSI	0.0	0.0	0.0	0.0	0.0
ZSI	0.0	0.0	0.0	0.0	0.0
SIOX	0.0	0.0	0.0	0.0	0.0
SIOY	0.0	0.0	0.0	0.0	0.0
SIOZ	0.0	0.0	0.0	0.0	0.0

*** FUSELAGE INERTIA AND WEIGHT DISTRIBUTION DATA IN RECORD 34 ***

DESIGN WEIGHT WING AFT CONDITIONS 1,2,3,4,6, 10,11,14,15, 14,19,20,21, 22 AND 23	DESIGN WEIGHT WING FWD CONDITIONS 5,7,12,13, 16 AND 17	MANEUVER WEIGHT CONDITION 8	LANDING WEIGHT CONDITION 9	TAXI WEIGHT CONDITION 24
WFC(1)	1805.2	1805.2	1805.2	1805.2
WFC(2)	2071.9	2071.9	2071.9	2071.9
WFC(3)	126.8	126.8	126.8	126.8
WFC(4)	8145.8	8145.8	8145.8	8145.8
WFC(5)	9725.9	9725.9	9725.9	9725.9
WFC(6)	9703.5	9703.5	9703.5	9703.5
WFC(7)	309.3	309.3	309.3	309.3
WFC(8)	8958.2	8958.2	8958.2	8958.2
WFC(9)	15450.1	15450.1	15450.1	15450.1
WFC(10)	574.3	574.3	574.3	574.3
WFC(11)	5390.0	5390.0	5390.0	5390.0
WFC(12)	366.2	366.2	366.2	366.2
WFC(13)	13574.5	13574.5	13574.5	13574.5
WFC(14)	15640.2	15640.2	15640.2	15640.2
WFC(15)	232.3	232.3	232.3	232.3
WFC(16)	334.5	334.5	334.5	334.5
WFC(17)	3.5	3.5	3.5	3.5
WFC(18)	267.8	267.8	267.8	267.8
WFC(19)	10.9	10.9	10.9	10.9
WFC(20)	201.9	201.9	201.9	201.9
WFUS(1)	170.2	170.2	170.2	170.2
WFUS(2)	686.0	686.0	686.0	686.0
WFUS(3)	44.2	44.2	44.2	44.2
WFUS(4)	1224.9	1224.9	1224.9	1224.9
WFUS(5)	2188.8	2188.8	2188.8	2188.8
WFUS(6)	2234.2	2234.2	2234.2	2234.2
WFUS(7)	71.9	71.9	71.9	71.9
WFUS(8)	2071.6	2071.6	2071.6	2071.6
WFUS(9)	2256.3	2256.3	2256.3	2256.3
WFUS(10)	85.5	85.5	85.5	85.5
WFUS(11)	780.7	780.7	780.7	780.7
WFUS(12)	88.0	88.0	88.0	88.0
WFUS(13)	3281.0	3281.0	3281.0	3281.0
WFUS(14)	3792.2	3792.2	3792.2	3792.2
WFUS(15)	2187.0	2187.0	2187.0	2187.0
WFUS(16)	4243.1	4243.1	4243.1	4243.1
WFUS(17)	60.0	60.0	60.0	60.0
WFUS(18)	1130.2	1130.2	1130.2	1130.2
WFUS(19)	48.8	48.8	48.8	48.8
WFUS(20)	920.8	920.8	920.8	920.8
ALTITUDE	MACH NO.	0		
0.0	.6000	533.3		
5000.0	.6494	520.5		
10000.0	.7060	507.8		
15000.0	.7688	494.1		
20000.0	.8400	480.3		
21250.0	.8548	471.9		
22500.0	.8700	463.5		
36250.0	.8700	248.5		
50000.0	.8700	128.3		
0.0	0.0000	64.4		

LOAD CONDITION NO. 1

** DUMMY - IP(74) *

	INPUT	CORRECTED
NGW. POUNDS	314100.00	314100.00
XCG. INCHES	931.65	931.65
ZCG. INCHES	250.01	250.01
TIYV. LB-INCHES	23446771671.29	23446771671.29
QUOT. RAD/SEC SU	0.00	0.00
PZMW. POUNDS	709771.43	709771.43
XCPW. INCHES	975.08	975.08

*** MATL TEMPERATURE ERROR ***

MAIL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 95.3 ASSUMED TEMP. = 88.0

CASE 1

COVFD MATERIAL DATA. MATL NO. 4

** MATLP1 - IP(72) *

7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-MDBK-5 R DATA EST.
REF. TABLE 3.2.7.0(1C) PAGE 33A 8-89-72

TEMP. = 80.00 DENSITY = .1010 MU = .3305

	A	H	E	E(RT)	G(RT)		
COMPRESSION	.2102621E-10	.28262543E-03	10500010.5	10700000.0	4022560.0		
TENSION	.2102621E-10	.28262543E-03	10500010.5				
	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.003810	.008140	40000.0	51200.0	59000.0	62900.0	65000.0
TENSION	.003810	.008140	40000.0	51200.0	59000.0	62900.0	65000.0

FTU = 73000.0 FSU = 44000.0 FBU = 170000.0

TM					
1	.00000000E+02	.33050000E+00	.2102621E-10	.28262543E-03	.10500011E+08
6	.05000000E+05	.2102621E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.44000000E+05	.13900000E+06	.19075000E+00	.76000000E+00	.22279465E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TM										
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

*** MATL TEMPERATURE ERROR ***

MAIL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 95.3 ASSUMED TEMP. = 88.0

CASE 1

*** LONGERON MATERIAL DATA. MATL NO. 5***

** MATLP1 - IP(72) *

7075-T6 AL NAME PLATE 0.05 TO 0.50 IN. MIL-MDBK-5 R DATA EST.
REF. TABLE 3.2.7.0(1R) PAGE 33A 4-88-72

TEMP. = 80.00 DENSITY = .1010 MU = .3300

	A	H	E	E(RT)	G(RT)		
COMPRESSION	.13136662E-08	.20050470E-03	10500000.0	10500000.0	3900000.0		
TENSION	.13136662E-08	.20050470E-03	10500000.0				
	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.005000	.008762	52500.0	59700.0	65000.0	68750.0	71000.0
TENSION	.005000	.008762	52500.0	59700.0	65000.0	68750.0	71000.0

FTU = 79000.0 FSU = 47000.0 FBU = 142000.0

TM					
1	.00000000E+02	.33000000E+00	.13136662E-08	.20050470E-03	.10500000E+08
6	.71000000E+05	.13136662E-08	.20050470E-03	.10500000E+08	.71000000E+05
11	.10100000E+00	.79000000E+05	.52500000E+05	.10500000E+08	.39000000E+07
16	.47000000E+05	.14200000E+06	.22500000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TM										
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CASE 1 -00-MAJOR FRAME MATERIAL DATA, MATL NO. 5-00- 00 MATLP1 = (P,72) *

7075-T6 AL BARE PLATE 0.25 TO 0.50 IN. MIL-MANNA-4 B DATA EST.
REF. TABLE 3.2.7.0(10) PAGE 336 4-16-72

TEMP. = 40.00 DENSITY = .1010 MIN. .3300

	A	B	E	E(RT)	B(RT)
COMPRESSION	.1313644E-08	.2005047E-03	10400000.0	10500000.0	3400000.0
TENSION	.1313644E-08	.2005047E-03	10400000.0	10500000.0	3400000.0

	EPS(P)	EPS(Y)	F(P)	F(Y)	F(1)	F(2)	F(3)	F(4)	F(5)
COMPRESSION	.000000	.000762	52500.0	50700.0	64000.0	64000.0	64000.0	64750.0	71000.0
TENSION	.000000	.000762	52500.0	50700.0	64000.0	64000.0	64000.0	64750.0	71000.0

FTUM 70000.0 FSUM 47000.0 FBUM 142000.0

TM									
1	.0000000E+02	.3300000E+00	.1313644E-08	.2005047E-03	.1050000E+08				
0	.7100000E+05	.1313644E-08	.2005047E-03	.1050000E+08	.7100000E+05				
11	.1010000E+00	.7000000E+05	.1050000E+08	.7000000E+05	.3900000E+07				
10	.4700000E+05	.1420000E+06	.2250000E+00	.7000000E+05	.3900000E+07				
21	0.	0.	0.	0.	0.				
20	0.	0.	0.	0.	0.				

THU									
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

*** MAIL TEMPERATURE ERROR ***

MAIL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 95.3 ASSUMED TEMP. = 40.0

CASE 1 -00-MINOR FRAME MATERIAL DATA, MATL NO. 6-00- 00 MATLP1 = (P,72) *

7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-MANNA-4 B DATA EST.
REF. TABLE 3.2.7.0(10) PAGE 336 8-10-72

TEMP. = 40.00 DENSITY = .1010 MIN. .3305

	A	B	E	E(RT)	B(RT)
COMPRESSION	.2102621E-10	.2026254E-03	10400010.5	10700000.0	4022500.0
TENSION	.2102621E-10	.2026254E-03	10400010.5	10700000.0	4022500.0

	EPS(P)	EPS(Y)	F(P)	F(Y)	F(1)	F(2)	F(3)	F(4)	F(5)
COMPRESSION	.003010	.000100	40000.0	51200.0	50000.0	62400.0	65000.0	65000.0	65000.0
TENSION	.003010	.000100	40000.0	51200.0	50000.0	62400.0	65000.0	65000.0	65000.0

FTUM 73000.0 FSUM 44000.0 FBUM 170000.0

TM					
1	.0000000E+02	.3300000E+00	.2102621E-10	.2026254E-03	.1050001E+08
0	.6500000E+05	.2102621E-10	.2026254E-03	.1050001E+08	.6500000E+05
11	.1010000E+00	.7000000E+05	.1050001E+08	.7000000E+05	.4022500E+07
10	.4400000E+05	.1390000E+06	.2250000E+00	.7000000E+05	.4022500E+07
21	0.	0.	0.	0.	0.
20	0.	0.	0.	0.	0.

THU					
10	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000

TMS REGION LCN = 1 00 MFCNTL = (P,73) *

1	.0000000E+02	.3300000E+00	.2102621E-10	.2026254E-03	.1050001E+08
0	.6500000E+05	.2102621E-10	.2026254E-03	.1050001E+08	.6500000E+05
11	.1010000E+00	.7000000E+05	.1050001E+08	.7000000E+05	.4022500E+07
10	.4400000E+05	.1390000E+06	.2250000E+00	.7000000E+05	.4022500E+07
21	0.	0.	0.	0.	0.
20	0.	0.	0.	0.	0.
31	.0000000E+02	.3300000E+00	.1313644E-08	.2005047E-03	.1050000E+08
30	.7100000E+05	.1313644E-08	.2005047E-03	.1050000E+08	.7100000E+05
41	.1010000E+00	.7000000E+05	.1050000E+08	.7000000E+05	.3900000E+07
40	.4700000E+05	.1420000E+06	.2250000E+00	.7000000E+05	.3900000E+07
51	0.	0.	0.	0.	0.
50	0.	0.	0.	0.	0.
61	.0000000E+02	.3300000E+00	.1313644E-08	.2005047E-03	.1050000E+08
60	.7100000E+05	.1313644E-08	.2005047E-03	.1050000E+08	.7100000E+05
71	.1010000E+00	.7000000E+05	.1050000E+08	.7000000E+05	.3900000E+07
70	.4700000E+05	.1420000E+06	.2250000E+00	.7000000E+05	.3900000E+07
81	0.	0.	0.	0.	0.
80	0.	0.	0.	0.	0.
91	.0000000E+02	.3300000E+00	.2102621E-10	.2026254E-03	.1050001E+08
90	.6500000E+05	.2102621E-10	.2026254E-03	.1050001E+08	.6500000E+05
101	.1010000E+00	.7000000E+05	.1050001E+08	.7000000E+05	.4022500E+07
100	.4400000E+05	.1390000E+06	.2250000E+00	.7000000E+05	.4022500E+07
111	0.	0.	0.	0.	0.
110	0.	0.	0.	0.	0.

*** FJSLN - IP(74) *

*** LOADS ARRAY ***

CASE NO 1

C.G. =

STATION

351.00

0.0 TEMP = 95.3

DATA TYPE 2

0.000

WT

1/0.2

272.0

3.0

351.00

MY-CONSOLE

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MOMENT-MY

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-27315.1

-1202876.7

-8519405.6

-19502489.4

-20275795.3

-51317878.5

-83490267.7

-83635211.7

-75408150.4

-74543719.2

-48465113.1

-31123257.7

-23211355.4

-8384702.4

-317281.0

-242020.6

-212381.0

-312571.6

240099.6

216959.4

215256.3

152048.0

79176.7

70104.5

52438.3

96265.7

91022.9

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LOAD SETS = 16 LOAD PNTS = 2

LOAD SET 1 TEMPERATURE = 95.3

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 2 TEMPERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 3 TEMPERATURE = 92.7

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 4 TEMPERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 5 TEMPERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 6 TEMPERATURE = 92.7

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 7 TEMPERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 16 TEMPERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	.45347311E+05	0.	0.
2	201.80	.45347311E+05	0.	0.

LOAD SET = 1A

00 FRML1 = (P,7A) 0

CUT	YMAX	ZMAX	DELTA	MOMENT	AXIAL	SMFAR
1	11.007	73.261	22.503	.4006138E+06	.1964266E+05	-.717770RE+04
2	33.004	66.102	22.500	.2814523E+06	.1503408E+05	-.8827663E+04
3	52.404	52.404	22.500	.5847584E+05	.1272022E+05	-.1242402E+05
4	61.102	33.004	22.500	-.2014404E+06	.1318439E+05	-.1263942E+05
5	73.261	11.007	22.503	-.4229008E+06	.1903049E+05	-.4210218E+04
6	73.261	-11.007	22.503	-.5245474E+06	.2576618E+05	-.2152140E+04
7	61.102	-33.004	22.500	-.4741249E+06	.2722001E+05	.7431648E+04
8	52.404	-52.404	22.500	-.1005445E+06	.1973718E+05	.1473737E+05
9	33.004	-66.102	22.500	.3444425E+06	-.4549751E+04	.1134343E+05
10	11.007	-73.261	22.503	.5843930E+06	-.1964266E+05	-.717770RE+04
11	-11.007	-73.261	22.503	.5843478E+06	-.1964266E+05	.317770RE+04
12	-33.004	-66.102	22.500	.3444425E+06	-.4549751E+04	-.1134343E+05
13	-52.404	-52.404	22.500	-.1005445E+06	.1973718E+05	-.1473737E+05
14	-61.102	-33.004	22.500	-.4741249E+06	.2722001E+05	.7431648E+04
15	-73.261	-11.007	22.503	-.5245474E+06	.2576618E+05	.2152140E+04
16	-73.261	11.007	22.503	-.4229008E+06	.1903049E+05	.4210218E+04
17	-61.102	33.004	22.500	-.2014404E+06	.1318439E+05	.1263942E+05
18	-52.404	52.404	22.500	.5847584E+05	.1272022E+05	.1242402E+05
19	-33.004	66.102	22.500	.2814523E+06	.1503408E+05	.8827663E+04
20	-11.007	73.261	22.503	.4006138E+06	.1964266E+05	.717770RE+04

CUT	T=FB	T=CAP	R=CAP
1	.134	.275	4.424
2	.116	.231	3.714
3	.101	.124	2.001
4	.101	.198	3.180
5	.140	.274	4.404
6	.154	.312	5.023
7	.145	.284	4.051
8	.114	.161	2.500
9	.125	.249	4.010
10	.159	.314	5.127
11	.159	.314	5.127
12	.125	.249	4.010
13	.114	.161	2.500
14	.145	.284	4.051
15	.154	.312	5.023
16	.140	.274	4.404
17	.101	.198	3.180
18	.101	.124	2.001
19	.116	.231	3.714
20	.134	.275	4.424

00 SFDRMT = (P,7A) 0

000 MAJOR FRAMES 000

00 FRMT = (P,77) 0

SEGMENT	STATION	WT CAP	WT WFB	WT STIFF	FRAME WT
3.0	351.0	102.0	39.0	27.4	169.4
12.0	990.0	1014.6	256.3	258.0	1530.9
13.0	1094.0	51.5	31.3	15.4	100.4
7.0	734.0	258.5	71.1	47.1	396.8
10.0	954.0	543.6	149.6	147.0	860.1
17.0	1041.0	47.1	34.4	29.0	160.6
19.0	1720.0	44.1	28.5	24.2	119.8



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T-REGION

[illegible]

00 614901 - 121711 #

T-REGION

[illegible]

*** GENERAL CONSTRUCTION INDICATORS ***

SPRINT - (P,40) *

VEHICLE TYPE	31.0
NUMBER OF CUTS	10.0
SHAPE CODE	1.0
CONSTRUCTION TYPE	2.0
COVER DESIGN INDICATOR	0.0
COVER MATERIAL NUMBER	4.0
LONGERON MATERIAL NUMBER	5.0
MAJOR FRAME MATERIAL NUMBER	5.0
MINOR FRAME MATERIAL NUMBER	4.0
PRINT CODE	10.0
NUMBER OF PRIMARY LONGERONS	0.0
NUMBER OF SECONDARY LONGERONS	4.0
GENERAL DEPTH RATIO - LONGS	0.0
NUMBER OF SHROUD RAILS	0.0
STRINGER SPACING	4.0
GENERAL FRAME DEPTH	4.0
GENERAL FRAME SPACING	1020.0
COVER INDEX FACTOR	1.2200
LONGERON INDEX FACTOR	1.1000
JSF INDEX FACTOR	1.0000
MINOR FRAME INDEX FACTOR	1.2500
MAJOR FRAME INDEX FACTOR	1.1000
BULKHEAD INDEX FACTOR	1.1000
LOCAL PANEL PLUTTER DATA	
MACH NUMBER	0.00
ALTITUDE	0.0
DYNAMIC PRESSURE	0.0
COVER MODULUS OF ELASTICITY	0.
FUNCTION OF MACH NUMBER	0.0000
ADDITIONAL DESIGN DATA	
MAXIMUM SEA LEVEL SPEED	0.00
MAXIMUM DYNAMIC PRESSURE	533.3
LIMIT CABIN PRESSURE	0.00

*** BASIC VEHICLE DATA ***

SPRINT - (P,40) *

NUMBER OF CWT MEMBERS	4.0
NUMBER OF ENGINES	0.0
WING CHORD - SIDE OF FUSELAGE	302.9
WING AREA	640.0

	INDICATOR	X-COORDINATE	Y-SIDE FUS	Z-SIDE FUS
WING DATA				
	0.0		77.7	284.0
FRONT SPAN		734.0		
REAR SPAN		450.0		
INT. SPAN		0.0		
HORIZONTAL TAIL DATA				
	0.0		0.0	0.0
FRONT SPAN		0.0		
REAR SPAN		0.0		
VERTICAL TAIL DATA				
	1.0		0.0	246.0
FRONT SPAN		1041.0		
REAR SPAN		1720.0		
FUSELAGE DATA				
FORWARD SUPPORT		0.0	0.0	0.0
AFT SUPPORT		0.0		
STORES AND OTHERS				
FORWARD SUPPORT		0.0	0.0	0.0
AFT SUPPORT		0.0		
ROSE GEAR DATA				
			20.0	130.0
GROUND LOCATION		354.7	20.0	46.0
THURNION		351.0		
IMAG STRUT		0.0		
MAIN GEAR DATA				
			64.5	144.7
GROUND LOCATION		491.0	105.0	46.0
THURNION		490.0		
IMAG STRUT		1050.0		

*** SECONDARY STRUCTURE - INPUT DATA SET ***

SPRINT - (P:10) *

INDICATORS AND P.G. DATA, SCOT REGION					
1	0.0000	0.0000	1.0000	1.0000	1.0000
2	1.0000	1.0000	1.0000	0.0000	0.0000
11	0.0000	0.0000	1.0000	1.0000	1.0000
12	0.0000	0.0000	0.0000	1.0000	0.0000
21	1.0000	0.0000	0.0000	0.0000	1.0000
22	1.0000	1.0000	1.0000	1.0000	1.0000
31	0.0000	0.0000	0.0000	0.0000	0.0000
32	1.0000	0.0000	0.0000	1.0000	1.0000
41	0.0000	1.0000	1.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	300.0000	300.0000	1020.0000
52	300.0000	402.0000	310.0000	0.0000	0.0000
61	0.0000	0.0000	900.0000	900.0000	1500.0000
62	0.0000	0.0000	0.0000	1300.0000	0.0000
71	1411.0000	0.0000	0.0000	0.0000	0.0000
72	0.0000	1210.0000	1200.0000	400.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000	0.0000
91	0.0000	0.0000	0.0000	0.0000	0.0000
92	0.0000	0.0000	0.0000	0.0000	0.0000

GEOMETRIC DEFINITIONS, SCOT REGION					
1	0.0000	0.0000	20.0000	30.0000	1.0000
2	51.0000	20.0000	40.0000	2.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000	103.0000
12	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	103.0000	32.0000	300.0000
22	0.0000	0.0000	0.0000	0.0000	100.0000
31	127.0000	0.0000	64.0000	77.0000	122.0000
32	0.0000	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	21.0000	2.0000
42	12.0000	1.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	700.0000	0.0000	0.0000
52	0.0000	2.0000	712.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000	0.0000

*** SHELL GEOMETRY - INPUT DATA SET ***

SPRINT - (P:10) *

CUT	STATION	FRAME SPACING	FRAME DEPTH	LONGITUDINAL DEPTH RATIO	DEPTH DEPTH	CUTOUT UPPER	CUTOUT LOWER	CUTOUT SIDE	SHROUD RADIUS
1	272.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
2	340.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
3	353.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
4	452.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
5	600.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
6	732.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
7	736.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
8	840.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
9	950.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
10	960.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
11	990.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
12	1000.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
13	1142.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
14	1242.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
15	1300.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
16	1430.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
17	1643.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
18	1720.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
19	1730.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0

NOTES:

FRAME SPACING = 1000 INDICATES FIXED FRAME SPACING.
 NEGATIVE VALUE FOR LONGITUDINAL DEPTH INDICATES ANGULAR
 LOCATION OF LONGITUDINAL IN RADIANS.
 VALUE OF 1 DESIGNATES THE REMOVAL OF SECTOR.
 NEGATIVE VALUE FOR CUTOUTS AND SHROUD RADIUS DESIGNATES FORWARD EDGE.

*** SHELL CRITERIA AND INDICATORS - INPUT DATA SET ***

SPRINT - (P:10) *

CUT	STATION	NUMBER	INDICATOR	DENSITY	ACOUSTIC	STIFFNESS REQUIREMENTS	STIFFNESS REQUIREMENTS	STIFFNESS REQUIREMENTS
						EI-VERI	EI-SIDE	QJ
1	272.0	0.0	1.0	0.0000	0.0	0.0	0.0	0.0
2	340.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
3	353.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
4	452.0	0.0	1.0	0.0000	0.0	0.0	0.0	0.0
5	600.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
6	732.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
7	736.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
8	840.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
9	950.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
10	960.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
11	990.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
12	1000.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
13	1142.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
14	1242.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
15	1300.0	0.0	1.0	0.0000	0.0	0.0	0.0	0.0
16	1430.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
17	1643.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
18	1720.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
19	1730.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

*** SECTION DATA - SHELL ELEMENTS ***

SPRINT - (P.100) *

CUT	STATION	CRITICAL COND.		LONG. STRING	DEPT/SPACE	NUMBER	AREA - LONGERON/STRINGER				AREA - LONG C/	
		DOWN	UP				UPPER	STIFF	LOWER	LONG	UPPER	LOWER
1	272.0	4	7	6.00	44.5		.145	.145	.145	.145	0.000	.14
2	349.0	4	7	6.00	78.3		.145	.145	.145	.145	0.000	.14
3	353.0	4	7	6.00	79.0		.145	.145	.145	.145	0.000	.14
4	452.0	4	10	6.00	49.0		.145	.145	.145	.145	0.000	0.00
5	400.0	4	16	6.00	49.0		.145	.145	.145	.145	0.000	0.00
6	732.0	4	10	6.00	49.0		.145	.145	.145	.145	1.000	0.00
7	736.0	4	10	6.00	49.0		.145	.274	.145	.145	1.000	0.00
8	446.0	2	3	6.00	49.0		.102	.273	.304	.145	6.554	0.00
9	456.0	2	3	6.00	49.0		.054	.247	.546	.145	11.031	0.00
10	400.0	2	3	6.00	49.0		.039	.311	.503	.145	10.599	0.00
11	400.0	2	3	6.00	49.0		.099	.314	.527	.145	6.316	0.00
12	1000.0	2	3	6.00	49.0		.510	.145	.500	.145	4.211	0.00
13	1142.0	2	3	6.00	49.0		.145	.145	.373	.145	0.000	0.00
14	1242.0	2	3	6.00	48.1		.145	.145	.295	.145	0.000	5.77
15	1344.0	2	3	6.00	43.1		.145	.145	.255	.145	0.000	4.27
16	1643.0	2	3	6.00	47.4		.145	.145	.314	.145	0.000	3.04
17	1643.0	2	3	6.00	44.7		.145	.211	.248	.145	0.000	2.84
18	1726.0	2	3	6.00	20.4		.145	.354	.145	.145	0.000	.14
19	1730.0	7	9	6.00	25.3		.145	.145	.145	.145	0.000	.14

*** SECTION DATA - SHELL ELEMENTS ***

SPRINT - (P.100) *

CUT	STATION	CRIT. COND.	FRAME SPACING	BASIC THICKNESS			LAND REQUIREMENTS			BASIC FLUTTER	TORSION	
				UPPER	STIFF	LOWER	UPPER	STIFF	LOWER		FORWARD	AFT
1	272.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
2	349.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
3	353.0	16	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
4	452.0	16	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
5	400.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
6	732.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
7	736.0	2	20.00	.0500	.0534	.0500	.0500	.0538	.0500	0.0000	0.0000	0.0000
8	446.0	2	20.00	.0500	.0535	.0500	.0500	.0535	.0500	0.0000	0.0000	0.0000
9	456.0	2	20.00	.0500	.0570	.0500	.0500	.0570	.0500	0.0000	0.0000	0.0000
10	400.0	16	20.00	.0500	.0777	.0500	.0500	.0777	.0500	0.0000	0.0000	0.0000
11	400.0	16	20.00	.0500	.0794	.0500	.0500	.0794	.0500	0.0000	0.0000	0.0000
12	1000.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
13	1142.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
14	1242.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
15	1344.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
16	1643.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
17	1643.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
18	1726.0	2	20.00	.0500	.0717	.0500	.0500	.0717	.0500	0.0000	0.0000	0.0000
19	1730.0	7	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000

*** MISCELLANEOUS SHELL DATA ***

SPRINT - (P.100) *

YOUNG'S MODULUS - COVER 1070000.0
LONGERONS 1050000.0

CUT	STATION	PANEL SIZE		CUTOFF DATA		APPARENT CUTOFF		BENDING STIFFNESS	
		UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	VERTICAL	STIFF
1	272.00	66.64	66.64	0.00	-56.00	0.00	56.00	.9506187E+11	.1194094E+
2	349.00	117.45	117.45	0.00	56.00	0.00	56.00	.5691325E+12	.0724411E+
3	353.00	114.57	114.42	0.00	0.00	0.00	52.00	.5907377E+12	.0344165E+
4	452.00	133.50	133.50	0.00	0.00	0.00	0.00	.9115351E+12	.9004711E+
5	400.00	133.50	133.50	0.00	0.00	0.00	0.00	.9115351E+12	.9004711E+
6	732.00	133.50	133.50	0.00	0.00	120.50	0.00	.4589789E+12	.0952203E+
7	736.00	133.50	133.50	-1.00	0.00	133.50	0.00	.4010563E+12	.1274433E+
8	446.00	133.50	133.50	1.00	0.00	133.50	0.00	.1060994E+13	.1460428E+
9	456.00	133.50	133.50	1.00	0.00	133.50	0.00	.1870114E+13	.2229745E+
10	400.00	133.50	133.50	0.00	0.00	120.50	0.00	.1076932E+13	.2441168E+
11	400.00	133.50	133.50	0.00	0.00	97.50	0.00	.1727346E+13	.1907120E+
12	1000.00	133.50	133.50	0.00	0.00	80.50	0.00	.1711207E+13	.1192003E+
13	1142.00	133.50	133.50	0.00	0.00	0.00	0.00	.1224445E+13	.9082232E+
14	1242.00	132.17	132.12	0.00	-1.00	0.00	132.12	.1085416E+13	.1237227E+
15	1344.00	124.65	124.65	0.00	1.00	0.00	124.65	.0623054E+12	.0901113E+
16	1643.00	71.16	71.16	0.00	1.00	0.00	71.16	.1734526E+12	.1091442E+
17	1643.00	70.02	70.02	0.00	1.00	0.00	70.02	.1677317E+12	.2174000E+
18	1726.00	39.65	39.65	0.00	1.00	0.00	39.65	.2404150E+11	.6884735E+
19	1730.00	37.93	37.93	0.00	1.00	0.00	37.93	.1720719E+11	.1082704E+

*** ELEMENT DATA - GEOMETRY AND UNIT INERTIAS ***

SPRINT - (P,RO) *

SEG	NAME	UFLX	ANFA	VOLUME	IOXX	IOYY	IOZZ
1	250.1	41.6	1425.8	78496.6	500.6	335.2	335.2
2	310.5	77.0	30742.0	842016.2	1712.0	1350.1	1350.1
3	351.0	4.0	1916.7	70804.0	2811.3	1607.0	1607.0
4	402.5	99.0	50130.0	280380.7	3212.6	2423.0	2423.0
5	426.0	148.0	74042.0	3150415.0	3611.5	3631.1	3631.1
6	666.0	132.0	70048.0	2995361.1	3611.5	3257.8	3257.8
7	736.0	4.0	2136.0	90768.0	3611.5	1807.1	1807.1
8	741.0	110.0	58760.0	2426119.2	3611.5	2814.1	2814.1
9	901.0	110.0	58760.0	2426119.2	3611.5	2814.1	2814.1
10	958.0	4.0	2136.0	90768.0	3611.5	1807.1	1807.1
11	978.0	36.0	19274.0	916911.0	3611.5	1913.8	1913.8
12	998.0	4.0	2136.0	90768.0	3611.5	1807.1	1807.1
13	1071.0	142.0	75028.0	3222243.0	3611.5	3686.1	3686.1
14	1217.0	150.0	79687.0	3368733.4	3504.4	3658.2	3658.2
15	1345.0	104.0	54490.0	2225149.0	3330.0	2801.3	2801.3
16	1518.5	241.0	95317.0	3814428.4	1934.6	5808.4	5808.4
17	1641.0	4.0	1167.8	25378.9	1004.0	503.4	503.4
18	1644.5	83.0	14603.3	125909.4	604.0	876.4	876.4
19	1724.0	4.0	363.6	7644.2	302.0	152.4	152.4
20	1759.3	87.4	6414.4	53661.3	174.4	377.2	377.2

TOTAL 110077.7 2783649.6

*** SHELL GEOMETRY - SECTION DATA ***

SPRINT - (P,RO) *

CUT	STA.	ZU	RU	HL	RS	WCU	DCL	RCS	PERI.	DI	WU	RU
1	272.0	200.0	66.7	66.7	66.7	42.5	42.5	42.5	266.7	0.0	0.0	42.4
2	349.0	200.0	117.4	117.4	117.4	74.9	74.9	74.9	469.8	0.1	0.1	74.7
3	353.0	200.0	118.5	118.5	118.5	75.5	75.5	75.5	474.1	0.1	0.1	75.4
4	452.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
5	600.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
6	732.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
7	736.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
8	846.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
9	958.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
10	966.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
11	998.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
12	1000.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
13	1142.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
14	1242.0	223.0	132.1	132.1	132.1	84.2	84.2	84.2	528.5	0.1	0.1	84.0
15	1398.0	239.7	124.6	124.6	124.6	79.4	79.4	79.4	498.6	0.0	0.0	79.3
16	1639.0	259.4	71.2	71.2	71.2	45.4	45.4	45.4	286.6	0.1	0.1	45.2
17	1643.0	259.7	70.0	70.0	70.0	44.7	44.7	44.7	280.1	0.1	0.1	44.5
18	1726.0	264.7	39.7	39.7	39.7	25.3	25.3	25.3	158.0	0.1	0.1	25.2
19	1730.0	264.9	37.4	37.4	37.4	24.2	24.2	24.2	151.7	0.1	0.1	24.1
20	1817.9	270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*** SHELL GEOMETRY - SECTION DATA ***

SPRINT - (P,RO) *

CUT	STATION	CROSS SECTION AREA-MOMENT			PERIMETER		PERIMETER-DECK		DEPTH-EFFECT.		WIDTH-EFFECT.	
		TOTAL	NET FWD	NET AFT	FORWARD	AFT	FORWARD	AFT	FORWARD	AFT	FORWARD	AFT
1	272.0	5660.7	5660.7	2830.3	266.7	218.2	84.9	84.9	42.4	42.4	84.9	84.9
2	349.0	17563.7	8781.8	17563.7	384.4	469.8	149.5	149.5	74.7	74.7	149.5	149.5
3	353.0	17884.2	17884.2	17884.2	474.1	474.1	158.9	158.9	75.4	75.4	158.9	158.9
4	452.0	22692.0	22692.0	22692.0	534.0	534.0	170.0	170.0	85.0	85.0	170.0	170.0
5	600.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
6	732.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
7	736.0	22692.0	22692.0	19992.5	534.0	515.2	170.0	120.6	140.0	140.0	170.0	170.0
8	846.0	22692.0	19942.5	19992.5	514.2	514.2	120.6	120.6	140.0	140.0	170.0	170.0
9	958.0	22692.0	19992.5	22692.0	514.2	534.0	120.6	0.0	140.0	170.0	170.0	170.0
10	966.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
11	998.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
12	1000.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
13	1142.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
14	1242.0	22225.3	22225.3	6028.3	578.5	357.3	162.2	158.4	53.1	160.2	158.4	158.4
15	1398.0	19781.1	7513.6	7513.6	374.8	374.8	158.8	158.8	84.3	84.3	158.8	158.8
16	1639.0	6447.2	3665.7	3665.7	242.2	242.2	90.0	90.0	30.2	30.2	90.0	90.0
17	1643.0	6242.8	3549.4	3549.4	238.3	238.3	88.6	88.6	29.4	29.4	88.6	88.6
18	1726.0	2091.9	1352.7	1352.7	142.1	142.1	48.5	48.5	32.3	32.3	48.5	48.5
19	1730.0	1831.4	1237.5	1237.5	135.9	135.9	46.4	46.4	30.9	30.9	46.4	46.4

*** SHELL COMPONENT WEIGHTS ***

*** SPRINT - IP(20) *

SEG	STA	LENGTH	UPPER	COVER SIDE	ELEMENTS LOWER	TOTAL	MINOR FRAMES	JOINTS SPLICES	LONGITUDINAL PARTITIONS
1	258.1	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	310.5	77.0	43.7	87.3	17.1	148.1	63.0	18.2	42.2
3	351.0	4.0	2.9	5.8	2.9	11.6	4.2	1.4	3.2
4	402.5	99.0	76.9	153.7	76.9	307.4	111.0	37.5	83.7
5	526.0	148.0	121.7	243.5	121.7	486.9	175.7	59.2	132.5
6	666.0	132.0	108.6	217.1	108.6	434.3	156.7	55.3	118.2
7	734.0	4.0	3.3	6.8	3.3	13.4	6.7	1.9	4.0
8	791.0	110.0	0.0	194.2	90.5	284.7	239.3	49.8	104.8
9	901.0	110.0	0.0	200.1	90.5	290.6	243.7	67.2	106.9
10	958.0	4.0	3.3	8.9	3.3	15.4	9.7	3.8	5.0
11	978.0	36.0	29.6	93.2	29.6	152.5	92.2	32.0	48.9
12	998.0	4.0	3.3	8.5	3.3	15.1	7.5	2.9	4.5
13	1071.0	142.0	116.8	233.6	116.8	467.2	168.6	79.1	127.2
14	1217.0	150.0	122.7	245.5	122.7	490.9	177.2	74.2	133.6
15	1345.0	106.0	83.8	167.7	0.0	251.5	121.0	40.8	74.5
16	1518.5	241.0	145.4	290.7	0.0	436.1	209.9	70.8	129.2
17	1641.0	4.0	1.7	3.5	0.0	5.2	3.6	.9	1.8
18	1684.5	83.0	28.0	64.9	0.0	92.9	89.5	15.3	36.5
19	1728.0	4.0	1.0	2.3	0.0	3.3	2.7	.5	1.2
20	1759.3	87.9	10.6	21.3	10.6	42.6	15.4	5.4	11.6
TOTAL			903.3	2248.7	797.8	3949.8	1897.5	616.3	1169.5

*** SHELL COMPONENT WEIGHTS ***
LONGITUDINAL MEMBERS

*** SPRINT - IP(m0) *

SEG	STA	LENGTH	UPPER	SIDE	LOWER	UPPER	LOWER	MISC	TOTAL
1	258.1	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	310.5	77.0	20.6	41.1	0.1	0.0	2.7	0.0	72.4
3	351.0	4.0	1.4	2.7	1.4	0.0	.1	0.0	5.6
4	402.5	99.0	36.2	72.3	36.2	0.0	1.7	0.0	146.4
5	526.0	148.0	57.3	114.6	57.3	0.0	0.0	0.0	229.2
6	666.0	132.0	51.1	102.2	51.1	29.9	0.0	0.0	234.3
7	734.0	4.0	1.5	4.0	1.5	1.8	0.0	0.0	9.0
8	791.0	110.0	0.0	137.1	65.9	111.6	0.0	0.0	314.7
9	901.0	110.0	0.0	140.8	132.1	242.7	0.0	0.0	515.6
10	958.0	4.0	6.9	6.0	6.3	10.8	0.0	0.0	29.9
11	978.0	36.0	54.2	60.1	53.4	64.4	0.0	0.0	232.1
12	998.0	4.0	5.4	4.9	5.8	4.1	0.0	0.0	20.2
13	1071.0	142.0	125.9	109.9	174.9	71.7	0.0	0.0	484.5
14	1217.0	150.0	57.8	115.5	133.5	0.0	96.1	0.0	402.8
15	1345.0	106.0	39.5	78.9	0.0	0.0	121.7	0.0	240.1
16	1518.5	241.0	68.4	136.8	0.0	0.0	211.1	0.0	416.3
17	1641.0	4.0	.8	2.0	0.0	0.0	2.9	0.0	5.7
18	1684.5	83.0	13.2	48.0	0.0	0.0	30.3	0.0	91.5
19	1728.0	4.0	.4	1.6	0.0	0.0	.1	0.0	2.2
20	1759.3	87.9	5.0	10.0	5.0	0.0	3.1	0.0	23.1
	TOTAL		545.5	1188.8	734.4	537.0	469.7	0.0	3475.5

*** BODY GROUP ***

** SPRINT **

BULKHEADS AND FRAMES		
	351.00	161.4
	991.00	1530.9
	1056.00	100.4
	734.00	321.4
	956.00	727.2
	1641.00	165.7
	1721.00	139.0
	1314.47	402.1
	272.00	34.8
	452.00	427.4
	1366.00	114.6
MINOR FRAMES		1404.1
JOINTS, SPLICES AND FASTENERS		617.9
COVERING - UPPER BETWEEN LONGERONS		503.5
- SIDE BETWEEN LONGERONS		2257.0
- LOWER BETWEEN LONGERONS		747.6
COVERING LONGITUDINAL STIFFENERS - UPPER BETW. LONG.		447.4
- SIDE BETW. LONG.		1104.1
- LOWER BETW. LONG.		738.3
LONGERONS - UPPER		535.5
- LOWER		470.5
ENGINE DRAG		0.0
LONGITUDINAL PARTITIONS - (STRUCTURAL)		1172.5
FLOORING AND SUPPORTS - (BASIC STRUCTURE)		3421.1
FITTINGS		179.6
TOTAL - BASIC STRUCTURE		16680.6

*** BODY GROUP ***
SECONDARY STRUCTURE

** SPRINT **

ENCLOSURES (EXCLUDING TURRET ENCLOSURES)		
CANOPY - PILOT		0.0
WINDSHIELD (EXCLUDING BULLET PROTECTION)		250.0
WINDOWS AND PORTS INCL. FRAMES		300.5
WINDOWS AND PORTS - CABIN		6.3
FLOORING AND SUPPORTS (SECONDARY STRUCTURE)		404.4
STAIRWAYS AND LADDERS (FIXED)		32.4
NOSE RADOME		95.3
SPEED BRAKES - STRUCTURE AND SUPPORTS		0.0
TOTAL SECONDARY STRUCTURE		1089.0

*** BODY GROUP ***
SECONDARY STRUCTURE
(DOORS, PANELS AND MISCELLANEOUS)

** SPRINT **

	AREA-SQ.FT.	
DOORS AND FRAMES		
- MAIN GEAR	163.0	883.4
- NOSE GEAR	32.9	164.5
- AFT GEAR	365.3	1117.4
- AFT FAN	108.5	1071.4
- PRESSURE	67.7	344.4
- DOME	0.0	0.0
- GUN		0.0
- ARMOR		0.0
- ESCAPE	24.2	471.9
- ESCAPE	18.5	185.0
- PARACHUTE	42.4	466.4
- ENTRANCE	12.2	121.0
- ACCESS		112.3
PANELS (INCL STRUCTURAL)		
- SPOILER DEFLECTOR		20.0
- MAIN GEAR P.D.	700.0	1191.4
WALKWAYS, STEPS, GRIPS		161.2
ANTI-SKID PROTECTION		58.9
FAIRING AND FILLETS		0.0
EXTERIOR FINISH		0.0
INTERIOR FINISH		248.7
TOTAL SECONDARY STRUCTURE (DOORS, PANELS, MISC.)		6567.6
TOTAL - BASIC STRUCTURE		18660.8
TOTAL SECONDARY STRUCTURE		1089.0
TOTAL - BODY GROUP		26567.5

*** BODY GROUP ***
BALANCE DATA

** SPRINT **

	WEIGHT	HORIZ. ARM
BULKHEADS AND FRAMES	4141.18	974.42
JOINTS, SPLICES AND FASTENERS	617.80	978.43
MINOR FRAMES	1904.11	573.19
COVERING - UPPER	903.53	592.62
SIDE	2257.02	969.34
LOWER	797.92	824.66
LONGERONS AND LONGITUDINAL STIFFENERS	547.61	1000.50
	1194.09	971.59
	738.26	925.39
	535.51	901.75
	470.45	1409.84
ENGINE DRAG	0.0	0.0
LONGITUDINAL PARTITIONS	1172.51	955.59
FLOORING AND SUPPORTS	3421.06	872.00
FITTINGS	179.61	1259.41
TOTAL BASIC STRUCTURE	18660.77	958.81
SECONDARY STRUCTURE		
	0.0	0.0
	0.0	0.0
	250.00	309.40
	300.50	309.40
	6.30	1020.00
	404.43	385.30
	32.45	442.80
	95.30	319.00
	0.0	0.0
	0.0	0.0
	0.0	0.0
	0.0	0.0
TOTAL SECONDARY STRUCTURE	1088.98	346.51