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AMRL-TR-73-110 (3)  
Volume 3



AD A 053701

**COMMUNITY NOISE EXPOSURE  
RESULTING FROM AIRCRAFT OPERATIONS:**

**Volume 3. Acoustic Data on Military Aircraft:  
Air Force Attack/Fighter Aircraft**

AD No. ~~AD A 053701~~  
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AEROSPACE MEDICAL RESEARCH LABORATORY  
AEROSPACE MEDICAL DIVISION  
AIR FORCE SYSTEMS COMMAND  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

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### TECHNICAL REVIEW AND APPROVAL

AMRL-TR-73-110

Volume 3

The experiments reported herein were conducted according to the "Guide for the Care and Use of Laboratory Animals," Institute of Laboratory Animal Resources, National Research Council.

The voluntary informed consent of the subjects used in this research was obtained as required by Air Force Regulation 80-33.

This report has been reviewed by the Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

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

FOR THE COMMANDER



HENNING E. VON GIERKE  
Director

Biodynamics and Bioengineering Division  
Aerospace Medical Research Laboratory

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report presents the results of field test measurements to define the noise produced on the ground by military, fixed wing aircraft during controlled level flyovers and ground runups. For flight conditions, data are presented in terms of various acoustic measures over the range 200-25,000 feet minimum slant distance to the aircraft. For ground runups, data are presented as a function of angle and distance to the aircraft.		

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All of the data are normalized to standard acoustic reference conditions of 59°F temperature and 70% relative humidity.) Volume 1 discusses the scope, limitations, and definitions needed to understand and use the volumes containing the noise data. Volume 1 provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 3 for the following aircraft: A-7D,E; A-10A; A-37B; F-4C,D,E,F; F-5A, B; F-5E,F; F-15A; F-16A; F-104C,D,G; F-111A,E; F-111D, and F-111F.

## PREFACE

The authors gratefully acknowledge the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. David Eilerman both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the noise measurement efforts of Capt. N. A. Farinacci of the Biodynamic Environment Branch and Mr. L. Keith Kettler of the University of Dayton Research Institute.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723104, "Measurement and Prediction of Noise Environments of Air Force Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

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## INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single event far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples for making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 3 provides the noise characteristics of Air Force attack and fighter type aircraft.

For identification purposes a code number has been assigned that is unique for each aircraft type. The noise data for aircraft codes less than 500 are based on measured flyovers and ground runups. The noise data for aircraft codes greater than 500 are estimated from measured data on aircraft having similar engines with adjustments made to account for different numbers of engines or different thrust.

The OMEGA 6.6 output pages describe the flyover noise characteristics while the OMEGA 8.2 output pages show the expected noise levels for *single* engine operation during ground runup.

For ease of comparing flight noise levels of different aircraft, the graphs of noise versus distance shown in the OMEGA 6 printouts are sized to fit the standard 3-cycle by 10 divisions per inch semi-logarithmic paper.

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft Noise Data
- Vol. 4: Air Force Trainer/Fighter Aircraft Noise Data
- Vol. 5: Air Force Propeller Aircraft Noise Data
- Vol. 6: Navy Aircraft Noise Data

Direct any questions concerning the data in this report to: AMRL/BBE, Wright-Patterson AFB OH 45433. AUTOVON 78-53664 or 78-53605; Commercial (513) 255-3664 or (513) 255-3605.





F R E Q U E N C Y	M E A N V A L U E O F N O R M A L I Z E D 1 / 3 O B S P L I N D B										M E A N	S D		
	40	50	60	70	80	90	100	110						
50	.	.	.	.	.	.	.	.	.	.	.	.	66.9	1.9
63	.	.	.	.	.	.	.	.	.	.	.	.	66.8	2.4
80	.	.	.	.	.	.	.	.	.	.	.	.	67.2	1.7
100	.	.	.	.	.	.	.	.	.	.	.	.	74.2	5.1
125	.	.	.	.	.	.	.	.	.	.	.	.	81.2	3.7
160	.	.	.	.	.	.	.	.	.	.	.	.	83.5	1.1
200	.	.	.	.	.	.	.	.	.	.	.	.	78.4	3.9
250	.	.	.	.	.	.	.	.	.	.	.	.	83.7	3.5
315	.	.	.	.	.	.	.	.	.	.	.	.	85.9	1.9
400	.	.	.	.	.	.	.	.	.	.	.	.	83.8	3.3
500	.	.	.	.	.	.	.	.	.	.	.	.	100.0	3.9
630	.	.	.	.	.	.	.	.	.	.	.	.	104.4	1.8
800	.	.	.	.	.	.	.	.	.	.	.	.	100.2	2.5
1000	.	.	.	.	.	.	.	.	.	.	.	.	96.2	2.4
1250	.	.	.	.	.	.	.	.	.	.	.	.	96.7	1.7
1600	.	.	.	.	.	.	.	.	.	.	.	.	95.6	1.3
2000	.	.	.	.	.	.	.	.	.	.	.	.	95.4	1.6
2500	.	.	.	.	.	.	.	.	.	.	.	.	94.1	1.6
3150	.	.	.	.	.	.	.	.	.	.	.	.	92.5	1.6
4000	.	.	.	.	.	.	.	.	.	.	.	.	89.8	2.2
5000	.	.	.	.	.	.	.	.	.	.	.	.	87.0	2.2
6300	.	.	.	.	.	.	.	.	.	.	.	.	83.0	2.8
8000	.	.	.	.	.	.	.	.	.	.	.	.	79.8	2.8
10000	.	.	.	.	.	.	.	.	.	.	.	.	73.2	2.6

AIRSPEED = 300 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 5

TEMP = 59 F  
 REL HUMID = 70 %

IDENT: 6.6-133-103-111275

PNL T = 119.5 PND8  
 PNL = 117.7 PND8  
 ALT = 109.4 DBA  
 AL = 107.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION: )		A/C CODE: 133																							
( TAKEOFF POWER )		OPS CODE: 103																							
( 96 % RPM )		REL HUMID = 70 %																							
( )		PROFILE VER: A																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
		PAGE H1																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	81	81	81	88	95	96	93	98	100	104	115	119	116	112	113	112	113	113	113	113	111	112	115	118
250	79	79	79	86	93	96	91	96	94	96	98	102	113	117	113	110	111	110	111	110	110	109	109	112	114
315	77	77	77	84	91	94	89	94	94	96	100	111	115	111	108	109	108	108	108	107	106	106	106	108	110
400	75	75	75	82	89	92	87	92	94	98	109	113	109	105	106	106	106	106	105	104	103	102	104	105	
500	73	73	73	80	87	90	85	90	92	96	107	111	107	103	104	103	104	103	102	101	99	98	99	99	
630	71	71	71	78	85	88	83	88	90	94	104	109	105	101	102	101	101	100	99	98	96	94	94	92	
800	69	69	69	76	83	86	80	86	88	92	102	107	103	99	99	98	98	97	96	94	92	89	87	87	
1000	67	67	67	74	81	83	78	84	86	90	100	104	100	96	97	96	95	94	92	90	87	83	80	73	
1250	65	65	65	72	79	81	76	82	84	88	98	102	98	94	94	93	92	91	88	85	82	76	71	61	
1600	63	63	63	70	77	79	74	79	82	85	95	100	95	91	91	90	89	87	84	79	75	68	60	46	
2000	61	61	61	68	75	77	72	77	83	83	93	97	93	88	88	86	85	82	79	73	68	59	47	28	
2500	59	59	59	66	73	75	70	75	77	81	90	94	90	85	85	81	81	77	73	65	60	47	32	6	
3150	57	57	57	64	71	73	67	73	75	78	88	92	87	82	81	78	75	72	66	56	49	34	12		
4000	55	54	55	62	68	70	65	70	72	75	85	88	83	78	77	73	70	55	57	45	37	17			
5000	53	52	53	59	66	68	63	68	69	72	82	85	80	74	72	68	64	57	47	32	21				
6300	50	50	50	57	64	66	60	65	66	69	78	81	75	69	67	61	56	47	35	16	2				
8000	48	48	48	55	61	63	57	62	63	66	75	77	71	64	60	54	47	36	20						
10500	46	46	46	52	59	60	55	59	60	62	71	73	65	57	53	45	36	22	2						
12500	44	43	43	50	56	58	52	56	56	58	66	67	59	50	44	34	23	5							
16000	41	41	41	47	53	55	48	52	52	53	60	61	51	41	33	21	6								
20000	39	38	38	44	50	51	45	48	48	48	54	53	42	30	20	5									
25000	37	36	35	41	47	48	40	43	42	42	47	45	32	17	5										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALTI** (JBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
(	125.5	127.2	137.4	139.1	121.9	123.3	125.6	(	OMEGA 6.6
(	123.0	124.7	134.9	136.7	120.4	121.9	124.2	(	
(	123.5	122.2	132.4	134.1	119.9	120.3	122.6	(	
(	118.0	119.7	129.7	131.4	117.4	118.8	120.9	(	
(	115.4	117.2	126.6	128.0	115.8	117.3	119.1	(	
(	112.9	114.6	123.9	125.6	114.3	115.7	117.1	(	
(	110.3	112.0	120.7	122.5	112.7	114.1	115.0	(	
(	107.7	109.4	117.7	119.5	111.1	112.5	113.0	(	
(	105.0	106.7	114.7	116.4	109.4	110.8	110.9	(	
(	102.2	103.9	111.5	113.3	107.6	109.0	108.8	(	
(	99.3	101.6	108.3	110.0	105.7	107.2	106.5	(	
(	96.3	98.0	104.9	106.6	103.7	105.2	104.1	(	
(	93.1	94.9	101.4	103.1	101.6	103.0	101.6	(	
(	89.8	91.2	97.7	99.1	99.2	100.4	98.6	(	
(	86.2	87.3	93.7	94.8	96.6	97.5	95.4	(	
(	82.3	83.0	89.6	90.3	93.7	94.3	91.9	(	
(	78.1	78.4	85.0	85.4	90.5	90.9	88.1	(	
(	73.3	73.3	80.1	80.1	86.7	86.7	83.9	(	
(	68.0	68.0	74.6	74.6	82.4	82.4	79.4	(	
(	62.0	62.0	68.5	68.5	77.4	77.4	74.3	(	
(	55.2	55.2	61.9	61.9	71.7	71.7	68.7	(	
(	47.7	47.7	54.5	54.5	65.1	65.1	62.4	(	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5

\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----*P-----)
    ( A-7 TAKEOFF POWER )
250 ( . 96 % RPM )
    ( AIRSPEED = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 5 )
    ( IDENT: 6.6-133-103-111275-A )
500 ( . . . . . )
    ( . . . . . )
S 630 ( . . . . . )
L ( . . . . . )
A 800 ( . . . . . )
N ( . . . . . )
T 1000 ( . . . . . )
    ( . . . . . )
D 1250 ( . . . . . )
I ( . . . . . )
S 1600 ( . . . . . )
T ( . . . . . )
A 2000 ( . . . . . )
N ( . . . . . )
C 2500 ( . . . . . )
E ( . . . . . )
I 3150 ( . . . . . )
N ( . . . . . )
4000 ( . . . . . )
F 5000 ( . . . . . )
E ( . . . . . )
E 6300 ( . . . . . )
T ( . . . . . )
8000 ( . . . . . )
10000 ( . . . . . )
12500 ( . . . . . )
16000 ( . . . . . )
20000 ( . . . . . )
25000 (-----)

```

```

60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB

```

```

AIR TO GROUND
P = PNLT
+ = PNL
+ = ALT
A = AL

```



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (L3)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
A-7		TEMP = 59 F																						
96 % RPM		REL HUMID = 70 %																						
AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																						
FREQUENCY BAND NUMBER		A/C CODE: 133																						
SLANT DISTANCE (FEET)		OPS CODE: 103																						
		PROFILE VER: A																						
		11 DEC 75																						
		PAGE L1																						
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
76	76	76	83	90	93	68	93	95	99	110	114	111	107	108	107	108	108	108	108	108	106	107	110	113
74	74	74	81	88	91	66	91	93	97	108	112	108	105	106	105	106	105	105	105	105	104	104	107	109
72	72	72	79	86	89	84	89	91	95	106	110	106	103	104	103	103	103	103	103	103	102	101	101	103
70	70	70	77	84	86	81	87	89	93	104	108	104	100	101	101	101	101	100	99	99	98	97	99	100
68	68	68	75	82	84	79	85	87	91	102	106	102	98	99	98	99	98	97	96	94	93	94	94	94
66	66	66	73	80	81	76	82	85	89	99	104	100	96	97	96	96	95	94	93	91	89	89	89	89
64	64	64	71	77	79	74	79	83	87	97	102	98	94	94	93	93	92	91	89	87	84	82	78	78
62	62	62	68	74	76	71	76	81	85	95	99	95	91	92	91	90	89	87	85	82	78	75	68	68
60	60	59	65	71	73	67	73	78	83	93	97	93	89	89	88	87	86	83	80	77	71	66	56	56
58	57	56	61	67	69	64	70	74	80	90	95	90	86	86	85	84	82	79	74	70	63	55	41	41
55	53	52	58	63	65	60	66	71	78	86	92	88	83	83	81	80	77	74	68	63	54	42	23	23
51	49	48	53	59	61	56	61	67	74	85	89	85	80	80	77	76	72	68	60	55	42	27	1	1
47	45	43	48	54	56	51	56	62	70	82	87	82	77	76	73	71	67	61	51	44	29	7	7	7
43	39	38	43	49	50	45	50	57	65	78	83	78	73	72	68	65	60	52	40	32	12	12	12	12
37	35	33	38	44	45	40	45	51	59	73	78	74	69	67	63	59	52	42	27	16	16	16	16	16
32	30	28	33	39	40	35	40	44	53	68	73	69	64	62	56	51	42	30	11	11	11	11	11	11
30	28	26	31	36	38	32	37	41	50	65	69	65	59	55	49	42	31	15	15	15	15	15	15	15
26	26	24	28	34	35	29	34	38	46	61	65	59	52	48	40	31	17	17	17	17	17	17	17	17
26	23	21	26	31	32	26	31	34	42	56	59	53	45	39	29	18	0	0	0	0	0	0	0	0
23	21	19	23	28	29	23	27	30	37	50	53	45	36	28	16	1	1	1	1	1	1	1	1	1
21	18	16	20	25	26	19	23	26	32	44	45	36	25	15	1	1	1	1	1	1	1	1	1	1
19	16	13	17	22	22	15	18	20	26	37	37	26	12	1	1	1	1	1	1	1	1	1	1	1

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:	
(FEET)	(DBA)	(JBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNOB)		
200	120.5	122.2	132.4	134.1	115.9	118.3	120.6	OMEGA 6.6	
250	118.0	119.7	129.9	131.7	115.4	116.9	119.2	A/C CODE: 133	
315	115.5	117.2	127.4	129.1	113.9	115.3	117.6	OPS CODE: 103	
400	113.0	114.7	124.7	126.4	112.4	113.8	115.9	PROFILE VER: A	
500	110.4	112.2	121.8	123.6	110.8	112.3	114.1	11 DEC 75	
630	107.9	109.6	118.8	120.6	109.3	110.7	112.1	PAGE M1	
800	105.3	107.0	115.7	117.4	107.7	109.1	109.9		
1000	102.6	104.4	112.6	114.3	106.1	107.5	107.8		
1250	100.0	101.7	109.5	111.2	104.4	105.8	105.7		
1600	97.2	98.9	106.2	108.0	102.6	104.0	103.5		
2500	94.3	96.0	102.9	104.6	100.7	102.2	101.1		
2500	91.3	93.0	99.3	101.0	98.7	100.1	98.5		
3150	88.0	89.7	95.5	97.2	95.4	97.8	95.7		
4000	84.1	85.5	91.0	92.4	93.6	94.7	92.0		
5000	79.6	80.7	86.0	87.0	90.1	90.9	87.7		
6300	74.7	75.4	80.6	81.3	86.1	86.7	83.0		
8000	70.2	70.6	75.8	76.1	82.6	82.9	78.9		
10000	65.2	65.2	70.5	70.5	78.6	78.6	74.3		
12500	59.6	59.6	64.5	64.5	74.0	74.0	69.3		
16000	53.3	53.3	57.6	57.6	63.7	63.7	63.4		
20000	46.0	46.0	49.8	49.8	62.4	62.4	56.6		
25000	37.6	37.6	40.0	40.0	55.0	55.0	47.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.





200	TAKEOFF POWER										ST-E
250	A-7	96 % RPM	AIRSPEED = 300 KNOTS		REL HUMID = 70 %		S T E		S T E		
315	TEMP = 59 F	DELTA N = 0.0 DB	NO. OF RECORDS: 5		IDENT: 6.6-133-103-111275-A		S T E		S T E		
400											S T E
500											S T E
630											S T E
800											S T E
1000											S T E
1250											S T E
1600											S T E
2000											S T E
2500											S T E
3150											S T E
4000											S T E
5000											S T E
6300											S T E
8000											S T E
10000											S T E
12500											S T E
16000											S T E
20000											S T E
25000											S T E

NOISE LEVEL IN DB

	10	20	30	40	50	60	70	80	MEAN	SD
F	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	64.7	3.0
R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	61.3	4.3
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	58.4	2.2
Q	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	68.2	2.4
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	72.2	2.5
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	73.5	2.7
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	70.1	2.2
C	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	73.6	4.9
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	77.3	2.7
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	74.7	3.3
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	74.8	1.4
C	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	75.9	1.6
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	73.3	1.2
I	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	74.0	2.0
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	73.5	2.0
H	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	73.4	1.9
Z	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	74.6	1.1
3	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	75.1	2.2
1	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	71.0	2.3
5	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	69.5	2.9
6	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	66.6	2.3
8	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	63.5	2.9
10	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	59.2	3.7
15	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	47.6	4.2

AIRSPEED = 301 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 6  
 TEMP = 59 F  
 REL HUMID = 70 %  
 IDENT: 6.6-133-104-111275  
 CRUISE POWER 85 % RPM  
 PNL T = 98.2 PND B  
 PNL = 97.7 PND B  
 ALT = 85.0 DBA  
 AL = 84.5 DBA

SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

A/C CODE: 133  
OPS CODE: 104  
PROFILE VER: A  
11 DEC 75  
PAGE H2

OPERATION: METEOROLOGY:  
CRUISE POWER = 59 F  
85 % RPM REL HUMID = 70 %  
AIRSPEED = 300 KNOTS DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	79	75	72	82	86	88	84	98	92	89	85	91	88	89	89	89	91	92	89	90	88	88	88	88	84
250	77	73	70	80	84	86	82	86	90	87	87	89	86	87	87	87	87	89	90	87	87	85	85	85	80
315	75	71	68	78	82	84	80	84	88	85	85	87	84	85	85	85	87	88	85	85	83	82	82	77	
400	73	69	66	76	80	82	78	82	86	83	83	84	82	83	83	83	84	85	82	82	80	79	79	72	
500	71	67	64	74	78	80	76	80	83	81	81	82	80	81	80	81	82	83	80	79	77	76	75	67	
630	69	65	62	72	76	78	74	78	81	79	79	80	78	79	78	78	80	80	77	76	74	72	70	62	
800	67	63	60	70	74	76	72	76	79	77	77	78	76	76	76	76	77	78	74	73	70	68	65	55	
1000	65	61	58	68	72	74	70	74	77	75	75	76	73	74	74	73	75	75	71	70	67	63	59	48	
1250	63	59	56	66	70	71	68	72	75	73	73	74	71	72	71	71	72	72	68	65	62	58	52	38	
1600	61	57	54	64	68	69	66	69	73	70	70	71	69	69	68	68	69	69	64	61	57	52	44	27	
2000	59	55	52	62	66	67	64	67	71	68	68	69	66	67	66	65	66	65	59	56	51	45	34	14	
2500	57	53	50	60	64	65	62	65	69	66	66	66	63	64	63	62	62	61	55	50	45	36	23		
3150	55	51	48	58	62	63	59	63	66	63	63	64	61	61	59	58	58	56	49	43	37	25	8		
4000	52	49	46	56	60	61	57	61	64	61	61	61	58	58	56	54	53	51	42	34	27	13			
5000	50	47	44	54	57	59	55	58	61	58	58	58	54	54	52	50	48	45	35	24	16				
6300	48	45	42	51	55	56	53	56	59	56	55	55	51	50	48	44	42	37	26	12					
8000	46	43	40	49	53	54	50	53	56	53	52	51	47	46	42	38	35	29	14						
10000	44	41	37	47	51	51	47	50	53	49	48	47	43	41	37	31	27	18	1						
12500	42	38	35	44	48	49	45	47	50	46	44	43	37	35	30	23	17	5							
16000	40	36	33	42	45	46	42	44	46	42	40	38	32	28	22	13	4								
20000	37	34	30	39	43	43	38	41	43	38	35	32	25	20	12	1									
25000	35	31	28	37	40	40	35	37	38	32	29	25	17	10	0										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDR)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)	IDENTIFICATION:		
A-7	101.3	101.8	115.3	115.8	99.5	100.7	104.3	OMEGA	6.6	
	99.1	99.6	113.1	113.6	98.3	99.4	103.1			
	96.8	97.3	110.7	111.2	97.0	98.1	101.7			
	94.4	95.0	108.3	108.9	95.6	96.9	100.4			
	92.0	92.6	105.9	106.4	94.2	95.4	98.9			
	89.6	90.1	103.3	103.8	92.8	93.9	97.3			
	87.1	87.6	100.6	101.1	91.3	92.4	95.6			
	84.5	85.0	97.7	98.2	89.6	90.8	93.7			
	81.8	82.3	94.7	95.2	88.0	89.1	91.7			
	79.0	79.5	91.4	92.0	86.2	87.3	89.4			
	76.1	76.6	88.0	88.5	84.3	85.5	87.0			
	73.2	73.7	84.3	84.9	82.3	83.5	84.4			
	70.1	70.6	80.4	80.9	80.3	81.4	81.4			
	66.9	67.3	76.7	77.1	78.1	79.0	78.5			
	63.6	63.9	73.2	73.5	75.8	76.5	75.8			
	60.3	60.5	69.6	69.8	73.5	73.9	72.9			
	56.7	56.9	65.9	66.0	70.9	71.2	70.0			
	53.1	53.1	61.9	61.9	69.3	68.3	66.8			
	49.2	49.2	57.8	57.8	65.4	65.4	63.7			
	45.2	45.2	53.3	53.3	62.4	62.4	60.2			
	40.9	40.9	48.4	48.4	59.1	59.1	56.2			
	36.3	36.3	42.8	42.8	55.5	55.5	51.7			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	CRUISE POWER										NOISE LEVEL IN DB									
	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120		
200	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
250	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
315	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
400	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
S 630	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
L 800	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
A 1000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
N 1250	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
T 1600	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
D 2000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
I 2500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
S 3150	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
T 4000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
A 5000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
N 6300	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
C 8000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
E 10000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
I 12500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
N 16000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
S 20000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		
T 25000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(		

```

200 (-----ST-E-----)
    ( A-7      CRUISE POWER
250 ( .      85 % RPM
    ( AIRSPEED = 300 KNOTS
315 ( .      TEMP = 59 F  REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 ( .      NO. OF RECORDS: 6
    ( IDENT: 6.6-133-104-111275-A
500 ( . . . . .
    ( . . . . .
630 ( . . . . .
    ( . . . . .
800 ( . . . . .
    ( . . . . .
1000 ( . . . . .
    ( . . . . .
1250 ( . . . . .
    ( . . . . .
1600 ( . . . . .
    ( . . . . .
2000 ( . . . . .
    ( . . . . .
2500 ( . . . . .
    ( . . . . .
3150 ( . . . . .
    ( . . . . .
4000 ( . . . . .
    ( . . . . .
5000 ( . . . . .
    ( . . . . .
6300 ( . . . . .
    ( . . . . .
8000 ( . . . . .
    ( . . . . .
10000 ( . . . . .
    ( . . . . .
12500 ( . . . . .
    ( . . . . .
16000 ( . . . . .
    ( . . . . .
20000 ( . . . . .
    ( . . . . .
25000 (-----E-X-----)

```

NOISE LEVEL IN DB

30      40      50      60      70      80      90      100      110

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																	
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																	
AIRCRAFT:		METEOROLOGY:																	
OPERATION:		TEMP = 59 F																	
CRUISE POWER		REL HUMID = 70 %																	
85 % RPM		PROFILE VER: A																	
AIRSPEED = 300 KNOTS		11 DEC 75																	
DELTA N = 0.0 DB		PAGE L2																	
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	74	70	67	77	81	83	79	83	87	84	84	86	87	84	85	83	83	83	79
250	72	68	65	75	79	81	77	81	85	82	82	84	85	82	82	80	80	80	75
315	70	66	63	73	77	79	75	79	83	80	80	82	83	80	80	78	77	77	72
400	68	64	61	71	75	76	73	77	81	78	78	78	79	80	77	75	74	74	67
500	66	62	59	69	73	74	71	75	78	76	75	76	77	78	75	74	72	71	62
630	64	60	57	67	71	71	68	72	76	74	73	73	75	75	72	71	69	67	57
800	62	58	55	65	68	69	65	69	74	72	72	73	73	73	69	68	65	63	50
1000	60	56	53	62	65	66	62	66	72	70	71	68	69	69	65	62	58	54	43
1250	58	54	50	59	62	63	59	63	69	68	68	69	66	67	63	60	57	53	43
1600	56	51	47	55	58	59	56	60	66	65	65	66	64	64	59	56	52	47	39
2000	53	48	43	52	55	55	52	56	62	63	63	64	61	62	61	60	54	46	29
2500	49	44	39	47	50	51	47	51	58	59	61	61	58	59	58	50	45	40	31
3150	45	39	34	42	45	46	43	46	54	55	57	59	56	56	54	44	38	32	20
4000	41	34	29	37	40	40	37	41	49	51	53	55	53	51	49	48	46	37	22
5000	35	29	24	32	35	36	32	36	43	45	49	51	49	47	45	43	40	30	11
6300	30	25	20	27	30	31	27	31	37	40	45	47	45	43	39	37	32	21	7
8000	28	23	18	25	28	28	25	28	34	37	42	43	41	41	37	33	30	24	9
10000	26	21	15	23	26	26	22	25	31	33	38	39	37	36	32	26	22	13	
12500	24	18	13	20	23	23	19	22	28	30	34	35	31	30	25	18	12	0	
16000	22	16	11	18	20	21	16	19	24	26	30	30	26	23	17	8			
20000	19	14	8	15	18	18	13	16	21	22	25	24	19	15	7				
25000	17	11	6	13	15	14	9	12	16	16	19	17	11	5					

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE 1 SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-7	96.3	97.0	110.3	110.9	94.5	95.8	99.4	OMEGA	6.6
	94.1	94.7	108.0	108.7	93.3	94.5	98.2	A/C CODE: 133	
	91.8	92.4	105.7	106.3	92.0	93.2	96.8	OPS CODE: 104	
	89.4	90.1	103.3	103.9	90.6	91.9	95.4	PROFILE VER: A	
	87.0	87.7	100.8	101.4	89.2	90.5	93.9	11 DEC 75	
	84.6	85.2	98.1	98.8	87.8	89.0	92.3	PAGE M2	
	82.0	82.7	95.4	96.0	86.2	87.5	90.5		
	79.4	80.0	92.4	93.0	84.6	85.9	88.5		
	76.7	77.3	89.2	89.8	82.9	84.1	86.3		
	73.8	74.4	85.8	86.4	81.0	82.3	83.9		
	70.8	71.5	82.1	82.7	79.0	80.3	81.2		
	67.7	68.3	78.0	78.7	76.9	78.1	78.2		
	64.2	64.9	73.5	74.1	74.4	75.7	74.6		
	60.5	61.0	68.6	69.1	71.7	72.7	70.5		
	56.3	56.6	63.4	63.8	68.5	69.2	66.0		
	51.7	52.0	58.1	58.4	64.9	65.4	61.5		
	47.5	47.6	53.5	53.6	61.7	61.9	57.6		
	42.9	42.9	48.0	48.0	58.1	58.1	52.9		
	38.0	38.0	41.9	41.9	54.2	54.2	47.8		
	32.7	32.7	34.7	34.7	43.9	43.9	41.6		
	26.9	26.9	26.8	26.8	45.1	45.1	34.6		
	20.5	20.5	14.8	14.8	39.7	39.7	23.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
	A-7	85 % RPM	CRUISE POWER						*P
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS							A+	*P.
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %						X	X
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB							A+	*P
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 6								
	IDENT: 6.6-133-104-111275-A								
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
S 630	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
L A 800	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
N T 1000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
D 1250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
I S 1600	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
T A 2000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
N C 2500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
E 3150	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
I N 4000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
E E 6300	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
T 8000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

GROUND TO GROUND  
P = PNL  
\* = PNL  
+ = ALT  
A = AL



	20	30	40	50	60	70	80	90		
	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB									
50	.	.	.	.	.	.	.	.	70.4	2.6
63	.	.	.	.	.	.	.	.	66.7	2.8
80	.	.	.	.	.	.	.	.	64.2	3.5
100	.	.	.	.	.	.	.	.	75.0	2.2
125	.	.	.	.	.	.	.	.	80.6	2.9
160	.	.	.	.	.	.	.	.	81.4	.8
200	.	.	.	.	.	.	.	.	75.2	4.5
250	.	.	.	.	.	.	.	.	79.6	.9
315	.	.	.	.	.	.	.	.	81.6	1.8
400	.	.	.	.	.	.	.	.	82.0	1.5
500	.	.	.	.	.	.	.	.	82.6	2.0
630	.	.	.	.	.	.	.	.	81.6	1.7
800	.	.	.	.	.	.	.	.	79.8	2.0
1000	.	.	.	.	.	.	.	.	79.1	2.0
1250	.	.	.	.	.	.	.	.	77.7	1.0
1600	.	.	.	.	.	.	.	.	76.8	1.3
2000	.	.	.	.	.	.	.	.	75.8	1.4
2500	.	.	.	.	.	.	.	.	77.7	1.6
3150	.	.	.	.	.	.	.	.	76.0	1.9
4000	.	.	.	.	.	.	.	.	75.1	2.8
5000	.	.	.	.	.	.	.	.	70.6	3.1
6300	.	.	.	.	.	.	.	.	65.6	2.3
8000	.	.	.	.	.	.	.	.	60.7	3.9
10000	.	.	.	.	.	.	.	.	49.9	4.0

AIRSPEED = 160 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 5  
 PNLT = 102.5 PNOB  
 PNL = 101.9 PNOB  
 ALT = 89.7 DBA  
 AL = 89.1 DBA

A-7 APPROACH POWER 82 % RPM

TEMP = 59 F  
 REL HUMID = 70 %

IDENT: 6.6-133-105-111275

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION		OMEGA 5.6																						
AIRCRAFT:		A/C CODE: 133																						
OPERATION:		OPS CODE: 105																						
APPROACH POWER		PROFILE VER: A																						
82 % RPM		11 DEC 75																						
REL HUMID = 70 %		PAGE H3																						
AIRSPEED = 160 KNOTS		DELTA N = 0.0 DB																						
METEOROLOGY:																								
TEMP		= 59 F																						
REL HUMID = 70 %																								
DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	81	78	89	95	96	89	94	96	96	97	96	95	94	93	93	92	95	94	95	92	90	90	86
250	82	79	76	87	93	94	87	92	94	94	95	94	93	92	91	91	90	93	92	93	89	87	87	82
315	80	77	74	85	91	92	85	90	92	92	93	92	91	90	89	88	88	90	90	90	87	84	83	79
400	78	75	72	83	89	90	83	88	90	90	91	90	88	88	87	86	86	88	87	88	84	81	80	74
500	76	73	70	81	87	88	81	86	88	88	89	88	86	86	85	84	83	86	85	85	81	78	76	70
630	74	71	68	79	85	85	79	84	86	86	87	86	84	84	82	82	81	83	82	82	78	74	72	64
800	72	69	66	77	83	83	77	82	84	84	85	84	82	81	80	79	78	81	79	79	74	70	66	58
1000	70	67	64	75	81	81	75	80	82	82	83	82	80	79	78	77	76	78	76	75	71	66	61	50
1250	66	65	62	73	79	79	73	78	80	80	80	79	77	77	75	74	73	75	73	71	66	60	54	41
1600	66	63	60	71	77	77	71	75	77	78	78	77	75	74	73	71	70	71	69	67	61	54	46	30
2000	64	61	58	69	74	75	69	73	75	75	76	75	73	72	70	68	67	68	65	61	56	47	36	17
2500	62	59	56	67	72	73	67	71	73	73	74	72	70	69	67	65	63	64	60	55	49	38	25	1
3150	60	57	54	65	70	71	65	69	71	71	71	70	67	66	64	62	59	59	54	49	41	28	10	
4000	58	54	52	63	68	69	62	67	68	68	68	67	64	63	60	58	55	54	48	40	32	15		
5000	56	52	50	60	66	66	60	64	66	66	66	64	61	59	56	53	50	47	40	30	20	0		
6300	54	50	48	58	64	64	58	62	63	63	63	61	58	55	52	48	44	40	31	18	7			
8000	52	48	45	56	61	62	55	59	61	60	60	57	54	51	47	42	37	32	20	4				
10000	50	46	43	54	59	59	53	56	58	57	56	53	49	46	41	35	28	21	7					
12500	48	44	41	51	57	57	50	53	54	53	52	49	44	40	34	27	18	9						
16000	45	41	39	49	54	54	47	50	51	49	48	44	38	33	26	17	6							
20000	43	39	36	46	51	51	44	47	47	45	43	38	32	25	15	5								
25000	41	37	34	44	48	48	40	43	43	41	37	31	23	16	5									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:		
(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)			
105.6	106.1	119.6	120.2	105.3	106.4	110.3	OMEGA 6.6		
103.3	103.9	117.3	117.9	104.1	105.2	109.0	A/C CODE: 133		
101.1	101.7	114.9	115.5	102.9	103.9	107.6	OPS CODE: 105		
98.8	99.4	112.5	113.1	101.6	102.6	106.2	PROFILE VER: A		
96.5	97.1	109.9	110.5	100.2	101.3	104.6	11 DEC 75		
94.1	94.7	107.3	107.9	98.8	99.9	103.0	PAGE I3		
91.6	92.2	104.7	105.2	97.4	98.5	101.4			
89.1	89.7	101.9	102.5	95.9	96.9	99.6			
86.6	87.1	98.9	99.5	94.3	95.4	97.6			
83.9	84.5	95.6	96.4	92.7	93.7	95.5			
81.2	81.8	92.5	93.1	91.0	92.0	93.2			
78.4	79.0	89.6	89.6	89.2	90.2	90.7			
75.5	76.1	85.8	86.4	87.3	88.4	88.5			
72.6	73.1	82.5	83.0	85.4	86.2	86.0			
69.5	69.9	79.1	79.5	83.3	83.9	83.4			
66.3	66.6	75.7	75.9	81.1	81.5	80.7			
63.0	63.1	72.0	72.1	78.7	78.9	77.9			
59.4	59.4	68.2	68.2	76.2	76.2	74.9			
55.6	55.6	64.1	64.1	73.4	73.4	71.7			
51.6	51.6	59.6	59.6	70.4	70.4	69.2			
47.4	47.4	55.0	55.0	67.1	67.1	64.6			
42.8	42.8	49.8	49.8	63.6	63.6	60.5			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(
N 1250	(	(	(	(	(	(	(	(	(
T 1600	(	(	(	(	(	(	(	(	(
D 2000	(	(	(	(	(	(	(	(	(
I 2500	(	(	(	(	(	(	(	(	(
S 3150	(	(	(	(	(	(	(	(	(
T 4000	(	(	(	(	(	(	(	(	(
A 5000	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(
C 8000	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(
I 12500	(	(	(	(	(	(	(	(	(
N 16000	(	(	(	(	(	(	(	(	(
A 20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

A-7 APPROACH POWER  
 82 % RPM  
 AIRSPEED = 160 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 5  
 IDENT: 6.6-133-105-111275-A

AIR TO GROUND  
 P = PNL  
 \* = PNL  
 + = ALT  
 A = AL

```

200 (-----APPROACH POWER-----ST---E-)
(
( A-7 82 % RPM . . . . . ST E. )
( AIRSPEED = 160 KNOTS . . . . . )
315 ( TEMP = 59 F REL HUMID = 70 % . . . . . ST E. )
( DELTA N = 0.0 DB . . . . . )
400 ( NO. OF RECORDS: 5 . . . . . ST E. )
( IDENT: 6.6-133-105-111275-A . . . . . )
500 ( . . . . . ST. E. . . . . )
(
S 630 ( . . . . . ST E. )
L 800 ( . . . . . ST .E )
N 1000 ( . . . . . ST. E . . . . . )
(
D 1250 ( . . . . . ST E. )
I 1600 ( . . . . . ST E. )
T 2000 ( . . . . . STE. . . . . )
N 2500 ( . . . . . STE )
E 3150 ( . . . . . STE. )
I 4000 ( . . . . . SX . . . . . )
(
F 5000 ( . . . . . XT . . . . . )
E 6300 ( . . . . . XT . . . . . )
T 8000 ( . . . . . EX. . . . . )
(
10000 ( . . . . . EX . . . . . )
(
12500 ( . . . . . EX . . . . . )
(
16000 ( . . . . . EX . . . . . )
(
20000 ( . . . . . EX. . . . . )
(
25000 (-----E---X-----NOISE LEVEL IN DB-----)
30 40 50 60 70 80 90 100 110

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																					
GROUND-TO-GROUND PROPAGATION												OMEGA	6.6										
AIRCRAFT:												METEOROLOGY:		A/C CODE: 133									
( OPERATION: )												TEMP		OPS CODE: 105									
( APPROACH POWER )												REL HUMID = 70 %		PROFILE VER: A									
( 82 % RPM )												DELTA N = 0.0 DB		PAGE L3									
( AIRSPEED = 160 KNOTS )																							
SLANT DISTANCE (FEET)												FREQUENCY BAND NUMBER											
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	76	73	84	90	91	84	89	91	92	91	90	89	88	88	87	90	89	90	87	85	85	81
250	77	74	71	82	88	89	82	87	89	89	90	88	87	86	85	85	88	87	88	84	82	82	77
315	75	72	69	80	86	87	80	85	87	88	87	86	85	84	83	83	85	85	85	82	79	78	74
400	73	70	67	78	84	84	78	83	85	85	86	85	83	82	81	81	83	82	83	79	76	75	69
500	71	68	65	76	82	82	76	81	83	85	84	83	81	80	79	78	81	80	80	76	73	71	65
630	69	66	63	74	79	79	73	78	81	81	82	81	79	77	77	76	78	77	77	73	69	67	59
800	67	64	61	72	76	77	70	75	79	80	79	77	76	75	74	73	76	74	74	69	65	61	53
1000	65	62	59	69	73	74	67	72	76	77	78	77	75	74	73	72	71	73	71	66	61	56	45
1250	63	60	56	66	70	70	64	69	74	75	75	74	72	72	70	69	68	70	68	61	55	49	36
1600	61	57	53	62	67	67	61	68	70	73	73	72	70	69	68	66	65	66	64	56	49	41	25
2000	58	53	49	58	63	63	57	62	67	70	71	70	68	67	65	63	62	63	60	56	51	42	31
2500	55	49	45	54	59	59	53	57	63	67	68	67	65	64	62	60	58	59	55	50	44	33	20
3150	51	45	40	49	54	54	48	52	58	63	65	65	62	61	59	57	54	54	49	44	36	23	5
4000	46	40	35	44	48	48	42	47	53	58	61	61	59	58	55	53	50	49	43	35	27	10	
5000	41	35	30	39	43	43	37	42	47	52	57	56	54	51	48	45	45	42	35	25	15		
6300	36	30	26	34	39	39	32	37	41	47	53	52	50	47	43	39	35	35	26	13	2		
8000	34	28	23	32	36	36	30	34	39	44	50	49	48	46	42	37	32	27	15				
10000	32	26	21	30	34	34	27	31	36	41	46	45	43	41	36	30	23	16	2				
12500	30	24	19	27	32	31	24	28	32	37	42	41	38	35	29	22	13	4					
16000	27	21	17	25	29	28	21	25	29	33	38	36	32	28	21	12	1						
20000	25	19	14	22	26	26	18	22	25	29	33	30	26	20	11	0							
25000	23	17	12	20	23	22	15	18	21	24	27	23	17	11									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:						
A-7	APPROACH POWER = 82 % RPM	TEMP = 59 F REL HUMID = 70 %	OMEGA	6.6	A/C CODE: 133				
	AIR SPEED = 160 KNOTS	DELTA N = 0.0 DB			OPS CODE: 105				
					PROFILE VER: A				
					11 DEC 75				
					PAGE M3				
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	100.6	101.1	114.6	115.1	100.3	101.3	105.3		
250	98.3	98.9	112.3	112.8	99.1	100.1	104.0		
315	96.1	96.6	109.9	110.5	97.9	98.9	102.6		
400	93.8	94.4	107.5	108.3	96.6	97.6	101.1		
500	91.5	92.0	104.9	105.4	95.2	96.2	99.5		
630	89.1	89.6	102.2	102.7	93.8	94.8	97.9		
800	86.6	87.1	99.5	100.0	92.4	93.4	96.1		
1000	84.1	84.6	96.5	97.1	90.8	91.8	94.2		
1250	81.4	82.0	93.4	94.0	89.2	90.2	92.1		
1600	78.7	79.2	90.1	90.6	87.5	88.5	89.7		
2000	75.9	76.4	86.4	87.0	85.7	86.7	87.1		
2500	72.9	73.4	82.4	83.0	83.6	84.6	84.1		
3150	69.6	70.1	78.3	78.9	81.3	82.3	81.0		
4000	65.9	66.3	73.8	74.3	78.7	79.5	77.3		
5000	61.8	62.1	69.0	69.3	75.6	76.2	73.2		
6300	57.4	57.6	63.9	64.1	72.2	72.6	68.9		
8000	53.4	53.5	59.6	59.7	69.2	69.4	65.4		
10000	49.1	49.1	55.0	55.0	65.9	65.9	61.6		
12500	44.5	44.5	49.9	49.9	62.2	62.2	57.5		
16000	39.3	39.3	44.0	44.0	58.1	58.1	52.6		
20000	33.7	33.7	37.0	37.0	53.5	53.5	46.6		
25000	27.6	27.6	29.0	29.0	48.3	48.3	39.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

A-7 APPROACH POWER

NOISE LEVEL IN DB	40	50	60	70	80	90	100	110	120
200	(	.	.	.	.	.	.	.	.
250	(	.	.	.	.	.	A+	.	*P
315	(	.	.	.	.	.	A+	.	X
400	(	.	.	.	.	.	X	.	*P
500	(	.	.	.	.	.	A+	.	X
630	(	.	.	.	.	.	A+	.	*P
800	(	.	.	.	.	.	X	.	*P
1000	(	.	.	.	.	.	A+	.	X
1250	(	.	.	.	.	.	A+	.	*P
1600	(	.	.	.	.	.	X	.	*P
2000	(	.	.	.	.	.	X	.	*P
2500	(	.	.	.	.	.	X	.	*P
3150	(	.	.	.	.	.	X	.	*P
4000	(	.	.	.	.	.	X	.	X
5000	(	.	.	.	.	.	X	.	X
6300	(	.	.	.	.	.	A+	.	X
8000	(	.	.	.	.	.	A+	.	X
10000	(	.	.	.	.	.	X	.	X
12500	(	.	.	.	.	.	X	.	X
16000	(	.	.	.	.	.	X	.	X
20000	(	.	.	.	.	.	X	.	X
25000	(	.	.	.	.	.	X	.	X

GROUND TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

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200 (-----ST-E-----)
  ( A-7 APPROACH POWER
250 ( . 82 % RPM . ST E .
  ( AIRSPEED = 160 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . ST. E .
  ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 5 . ST .E .
  ( IDENT: 6.6-133-105-111275-A
500 ( . . . . . ST . E . . . . .
S 630 ( . . . . . ST E .
L (
A 800 ( . . . . . ST E .
N (
T 1000 ( . . . . . ST E . . . . .
D 1250 ( . . . . . ST E .
I (
S 1600 ( . . . . . ST E .
T (
A 2000 ( . . . . . SX. . . . .
N (
C 2500 ( . . . . . XT . . . . .
E 3150 ( . . . . . XT . . . . .
I (
N 4000 ( . . . . . E X. . . . .
F 5000 ( . . . . . E. X. . . . .
E 6300 ( . . . . . E. ST . . . . .
T 6900 ( . . . . . E X. . . . .
10000 ( . . . . . E X. . . . .
12500 ( . . . . . E X. . . . .
16000 ( . . . . . E X. . . . .
20000 ( . . . . . E X. . . . .
25000 (-----X-----)
30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

```



TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 133																		
A-7E AIRCRAFT ( IDLE, 55% RPM ) TEMP = 59 F ) OPERATION CODE 01013																		
ENG. TF-41 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																		
GROUND RUNUP ( ) REL HUMID = 70 % ) 04 NOV 75																		
( ) DELTA N = 0.0 DB ) PAGE C1																		
BAND CENTER																		
FREQ (HZ)																		
ANGLE (DEGREES)																		
90 100 110 120 130 140 150 160 >170 >180																		
70 80 90 100 110 120 130 140 150 160 >170 >180																		
60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
40 50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
30 40 50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
50	67	71	70	69	64	69	71	65	72	74	72	73	77	77	78	76	66	56
63	69	71	71	67	69	72	68	70	71	73	74	76	76	78	79	76	66	56
80	57	69	66	65	69	65	66	66	70	71	75	75	77	79	78	75	65	55
100	68	69	69	68	68	68	67	70	72	73	75	77	78	78	78	75	65	55
125	71	68	72	69	72	70	71	70	72	76	78	80	80	83	82	78	68	58
160	71	64	72	59	65	66	68	68	71	75	76	77	77	80	78	75	65	55
200	71	66	70	68	63	66	69	69	73	78	79	80	80	80	80	76	66	56
250	66	70	69	65	67	67	68	69	73	76	79	81	80	78	79	75	65	55
315	67	70	69	65	66	63	64	64	68	73	75	78	78	76	75	72	62	52
400	68	69	69	67	65	62	64	64	69	73	76	79	77	77	72	72	62	52
500	69	69	72	68	65	64	66	66	70	76	79	82	91	77	72	72	62	52
630	72	73	72	69	66	64	64	65	69	74	78	83	78	74	74	74	64	54
800	71	72	71	70	69	66	64	65	69	74	78	83	78	74	72	72	62	52
1000	75	74	74	75	74	71	65	63	67	73	75	78	74	72	68	70	60	50
1250	89	89	92	91	88	82	78	75	73	77	79	80	77	73	69	71	61	51
1600	77	76	77	76	72	67	66	66	71	76	76	76	73	72	67	70	60	50
2000	80	79	78	81	77	69	68	66	69	75	74	75	70	70	67	69	59	49
2500	81	81	83	80	77	70	68	65	69	76	76	77	74	70	69	69	59	49
3150	77	77	77	77	75	70	65	63	69	77	76	79	73	69	67	66	56	46
4000	77	78	79	78	76	72	68	66	72	77	76	78	73	71	66	67	57	47
5000	81	80	80	77	76	70	65	62	67	75	74	76	72	69	65	64	54	44
6300	78	79	78	78	74	71	65	61	65	72	72	74	70	69	64	62	52	42
8000	78	78	76	75	76	74	69	64	64	72	72	75	72	70	65	62	52	42
10000	74	74	73	72	71	69	63	58	62	69	68	69	66	64	59	57	47	37
OVERALL	92	91	92	94	92	90	85	83	81	84	89	90	92	90	89	87	77	67

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNOR)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	IDENTIFICATION:	
DISTANCE (FEET)	NOISE SOURCE/SUBJECT: A-7E AIRCRAFT ENG. TF-41 GROUND RUNUP	OPERATION: IDLE, 55% RPM SINGLE ENGINE																	OMEGA 8.2	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	TEST 74-004-004
		METEOROLOGY: TEMPERATURE = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB																	AIRCRAFT CODE 133	
		ANGLE (DEGREES)																	OPERATION CODE 01013	
																			PROFILE VERSION A	
																			04 NOV 75	
																			PAGE 01	
200	105.7	105.6	105.8	107.1	105.4	103.4	98.3	95.6	93.6	97.9	103.8	103.9	105.9	102.5	100.7	97.9	97.3	87.0	76.7	
250	103.5	103.2	103.5	104.9	103.6	101.2	96.1	93.4	91.3	95.6	101.5	101.6	103.6	100.2	98.4	95.7	95.0	84.7	74.3	
315	101.2	100.8	101.2	102.6	101.3	98.9	93.8	91.1	89.0	93.2	99.1	99.2	101.3	97.8	96.0	93.4	92.7	82.4	72.0	
400	98.8	98.4	98.8	100.3	98.9	96.5	91.4	88.7	86.7	90.7	96.5	96.7	98.8	95.4	93.5	91.0	90.3	80.0	69.5	
500	96.3	95.8	96.4	97.8	96.5	94.1	88.9	86.3	84.2	88.0	93.9	94.1	96.3	92.9	90.9	88.5	87.8	77.5	67.0	
630	93.7	93.1	93.8	95.3	93.9	91.5	86.3	83.7	81.7	85.2	91.2	91.4	93.6	90.2	88.2	85.8	85.2	74.8	64.3	
800	91.0	90.3	91.1	92.7	91.2	88.8	83.7	81.0	79.0	82.2	88.3	88.5	90.7	87.5	85.2	83.1	82.5	72.1	61.4	
1000	88.2	87.3	88.3	89.9	88.4	86.0	80.8	78.2	76.2	79.0	85.2	85.6	87.7	84.5	82.2	80.1	79.6	69.2	58.3	
1250	85.2	84.0	85.3	87.0	85.5	83.1	77.8	75.3	73.3	75.5	81.9	82.4	84.4	81.6	79.2	77.0	76.5	66.0	54.9	
1600	82.0	80.8	82.2	83.9	82.4	79.9	74.6	72.1	70.1	72.2	78.3	79.0	80.9	78.5	76.1	73.6	73.1	62.5	51.0	
2000	78.7	77.4	78.8	80.6	79.1	76.6	71.2	68.7	66.7	68.6	74.6	75.4	77.2	75.3	72.9	70.0	69.5	58.8	46.8	
2500	75.0	73.7	75.2	77.0	75.4	73.0	67.5	65.0	63.1	64.8	70.5	71.3	73.6	71.7	69.1	66.3	65.9	54.9	42.3	
3150	71.2	69.7	71.3	73.2	71.6	69.1	63.5	61.0	58.9	60.4	66.2	67.1	69.4	67.6	64.8	62.0	61.7	50.2	36.9	
4000	66.9	65.4	67.0	69.0	67.4	64.8	59.0	56.5	54.3	55.6	61.5	62.5	64.8	63.0	60.1	57.2	56.9	44.7	30.6	
5000	62.2	60.6	62.4	64.4	62.7	60.1	54.1	51.4	49.1	50.1	56.3	57.5	59.9	58.0	54.9	51.6	51.6	38.8	20.9	
6300	57.0	55.3	57.2	59.2	57.6	54.7	48.7	45.9	43.3	43.9	50.3	52.0	54.6	52.7	49.3	45.8	45.5	32.1	7.4	
8000	51.4	49.6	51.6	53.6	52.1	49.1	42.9	39.7	36.9	37.3	44.6	47.1	50.0	48.2	44.8	40.8	40.5	24.7		
10000	45.1	43.1	45.3	47.5	45.7	42.6	34.8	31.3	28.7	30.7	36.4	41.6	44.9	42.8	38.9	34.6	34.4	14.8		
12500	36.3	34.4	36.9	39.6	37.2	33.2	25.5	20.7	16.4	22.2	31.9	35.6	39.0	37.4	32.6	27.5	27.6	5.0		
16000	25.5	22.8	25.9	28.6	25.7	22.5	10.6	10.0	4.1	10.1	23.2	27.9	31.7	30.4	24.9	17.8	17.8	19.7		
20000	14.7	11.3	14.9	11.4	8.8	11.9				11.0	17.9	24.1	22.2	14.2	7.4					
25000	3.9		3.9		1.1					7.7	11.0	10.0								

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	110.2	109.4	109.8	111.7	111.1	108.3	103.6	100.1	97.1	99.2	103.8	105.1	106.5	103.6	101.3	98.6	97.3	87.0	75.7
250	107.9	107.0	107.6	109.5	108.9	106.0	101.4	97.9	94.9	96.9	101.5	102.8	104.2	101.3	99.0	96.4	95.0	84.7	74.3
315	105.6	104.6	105.2	107.2	106.6	103.7	99.1	95.6	92.6	94.5	99.1	100.4	101.8	98.9	96.6	94.1	92.7	82.4	72.0
400	103.2	102.2	102.9	104.8	104.2	101.4	96.7	93.3	90.3	92.0	96.5	97.9	99.4	96.5	94.1	91.7	90.3	80.0	69.5
500	100.7	99.6	100.4	102.4	101.8	98.9	94.2	90.8	87.8	89.3	93.9	95.3	96.9	94.0	91.5	89.2	87.8	77.5	67.0
630	98.1	96.9	97.9	99.9	99.2	96.4	91.6	88.3	85.3	86.5	91.2	92.6	94.2	91.3	88.8	86.6	85.2	74.8	64.3
800	95.4	94.1	95.2	97.3	96.6	93.7	88.9	85.6	82.6	83.6	88.3	89.7	91.3	88.6	85.8	83.8	82.5	72.1	61.4
1000	92.6	91.8	92.4	94.5	93.8	90.9	86.1	82.8	79.8	80.3	85.2	86.8	88.3	85.7	82.8	80.8	79.6	69.2	58.3
1250	89.6	87.8	89.4	91.6	90.8	87.9	83.1	79.8	76.9	76.9	81.9	83.6	85.0	82.7	79.8	77.7	76.5	66.0	54.9
1600	86.5	84.6	86.2	88.5	87.7	84.8	79.9	76.7	73.7	73.5	78.3	80.2	81.5	79.6	76.7	74.3	73.1	62.5	51.0
2000	83.1	81.2	82.9	85.2	84.4	81.4	76.5	73.3	70.3	70.8	74.6	76.5	77.7	76.4	73.5	70.7	69.5	58.8	46.8
2500	79.4	77.5	79.2	81.6	80.8	77.8	72.8	69.6	66.6	66.1	70.5	72.5	74.1	72.9	69.7	67.1	65.9	54.9	42.3
3150	75.6	73.5	75.3	77.8	77.0	73.9	68.8	65.5	62.5	61.7	66.2	68.3	70.0	68.7	65.4	62.7	61.7	50.2	36.9
4000	70.4	68.4	70.2	72.7	71.7	68.6	63.3	60.2	57.2	56.7	61.5	63.4	65.3	63.9	60.5	57.7	56.9	44.7	30.6
5000	64.9	62.8	64.8	67.2	65.9	63.0	57.3	54.1	51.2	50.9	56.3	58.3	60.2	58.7	55.3	52.0	51.6	38.8	20.9
6300	58.7	56.8	58.8	61.1	59.8	56.7	50.8	47.7	44.7	44.4	50.3	52.5	54.8	53.2	49.6	46.1	45.5	32.1	17.4
8000	52.2	50.4	52.5	54.7	53.1	50.1	44.0	40.6	37.6	37.6	44.6	47.3	50.1	48.4	44.7	40.9	40.5	24.7	11.4
10000	45.1	43.1	45.3	47.5	45.7	42.6	34.8	31.3	28.7	30.7	38.4	41.6	44.9	42.8	38.9	34.6	34.4	14.8	5.0
12500	36.3	34.4	36.9	39.6	37.2	33.2	25.5	20.7	16.4	22.2	31.9	35.6	39.0	37.4	32.6	27.5	27.6	7.4	1.1
16000	25.5	22.8	25.9	28.6	25.7	22.5	10.6	10.0	4.1	10.1	23.2	27.8	31.7	30.4	24.9	17.8	18.7	1.1	0.0
20000	14.7	11.3	14.9	11.4	8.8	11.8	1.1	1.1	1.1	11.0	17.8	24.1	22.2	14.2	7.4	7.4	7.4	0.0	0.0
25000	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: ( OPERATIONS: ) METEOROLOGY: ) IDENTIFICATION: )  
A-7E AIRCRAFT ( IDLE, 55% RPM ( ) TEMP = 59 F ) OMEGA 6.2  
ENJ. TF-41 ( SINGLE ENGINE ( ) BAR PRESS = 29.92 IN HG ) TEST 74-004-004  
GROUND RUNUP ( ) REL HUMID = 70 % ) RUN 01  
( ) DELTA N = 0.0 09 ) AIRCRAFT CODE 133  
( ) ) PROFILE VERSION A  
( ) ) 04 NOV 75  
( ) ) PAGE F1

DISTANCE ( FEET ) J 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180

ANGLE (DEGREES)

250	34.5	93.4	94.6	96.4	95.1	92.5	86.7	83.4	81.0	83.2	89.3	89.7	91.6	88.6	86.1	83.2	83.0	73.0	63.0
250	92.3	91.2	92.4	94.2	92.9	90.3	84.5	81.2	78.8	80.9	87.0	87.5	89.4	86.4	83.9	81.0	80.9	70.9	60.9
315	90.1	88.9	90.1	92.0	90.7	88.1	82.2	79.0	76.6	78.7	84.7	85.3	87.2	84.2	81.7	78.9	78.7	68.7	58.7
400	87.7	86.5	87.8	89.8	88.4	85.8	79.9	76.7	74.4	76.4	82.4	83.0	84.9	82.0	79.5	76.7	76.5	66.5	56.5
500	85.4	84.1	85.5	87.5	86.1	83.5	77.6	74.5	72.1	74.0	79.9	80.6	82.5	79.7	77.2	74.4	74.2	64.2	54.2
630	83.0	81.6	83.1	85.1	83.7	81.1	75.2	72.1	69.8	71.6	77.4	78.2	80.1	77.3	74.8	72.0	71.9	61.9	51.9
800	80.5	79.0	80.6	82.7	81.3	78.7	72.7	69.7	67.4	69.0	74.9	75.7	77.6	74.9	72.4	69.6	69.5	59.5	49.5
1000	77.9	76.4	78.1	80.2	78.8	76.2	70.2	67.2	64.9	66.4	72.2	73.2	75.1	72.5	69.9	67.0	67.0	57.0	47.0
1250	75.3	73.7	75.4	77.6	76.2	73.6	67.6	64.6	62.3	63.7	69.4	70.5	72.4	69.9	67.3	64.4	64.4	54.4	44.4
1600	72.5	70.8	72.6	74.9	73.5	70.8	64.8	61.9	59.6	60.9	66.5	67.8	69.7	67.3	64.6	61.6	61.6	51.6	41.6
2000	69.6	67.8	69.7	72.0	70.6	67.9	62.0	59.0	56.7	58.0	63.5	65.0	66.9	64.6	61.9	58.8	59.0	49.0	39.0
2500	66.5	64.7	66.7	69.0	67.5	64.9	58.9	55.9	53.7	54.8	60.3	61.9	63.9	61.7	58.8	55.7	56.0	46.0	36.0
3150	63.2	61.3	63.4	65.7	64.2	61.6	55.6	52.6	50.4	51.4	56.9	58.6	60.6	58.5	55.5	52.3	52.6	42.6	32.6
4000	59.6	57.6	59.7	62.1	60.7	58.0	52.1	49.0	46.8	47.7	53.2	55.0	57.0	54.8	51.8	48.5	48.9	38.9	28.9
5000	55.6	53.6	55.6	58.1	56.7	54.0	48.1	45.0	42.8	43.6	49.0	50.9	52.9	50.7	47.7	44.3	44.8	34.8	24.8
6300	51.1	49.1	51.3	53.6	52.3	49.6	43.7	40.6	38.4	39.1	44.5	46.5	48.5	46.4	43.3	39.9	40.3	30.3	20.3
8000	46.1	44.1	46.3	48.6	47.3	44.5	38.7	35.7	33.7	34.7	40.2	42.4	44.5	42.5	39.3	36.1	36.3	26.3	16.3
10000	40.4	38.5	40.7	42.9	41.5	38.9	33.0	30.2	28.5	30.0	35.5	37.9	40.2	38.4	35.1	32.0	32.0	22.0	12.0
12500	33.9	32.3	34.2	36.3	34.9	32.1	26.6	24.1	22.8	25.0	30.5	33.1	35.4	33.8	30.5	27.6	27.6	17.4	7.4
16000	28.5	25.2	26.8	28.7	27.2	24.4	19.3	17.4	16.7	19.6	25.2	27.9	30.3	28.9	25.6	22.9	22.9	12.5	2.5
20000	18.3	17.7	18.7	20.1	18.5	15.7	11.4	10.6	10.4	14.0	19.4	22.2	24.6	23.5	20.4	17.8	17.8	7.1	1.1
25000	9.9	9.9	10.4	11.3	9.2	6.6	3.7	4.0	4.1	8.0	13.3	16.1	18.5	17.5	14.8	12.5	12.5	1.4	1.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	99.0	97.2	98.6	101.0	100.4	97.3	92.0	87.9	84.6	84.5	89.3	90.9	92.2	89.7	86.7	83.9	83.0	73.0	63.0
250	96.7	95.0	96.4	98.8	98.2	95.1	89.8	85.8	82.4	82.3	87.0	88.7	90.0	87.5	84.5	81.7	80.9	70.9	60.9
315	94.5	92.7	94.2	96.6	96.0	92.9	87.5	83.5	80.2	80.0	84.7	86.4	87.7	85.3	82.3	79.6	78.7	68.7	58.7
400	92.2	90.3	91.9	94.4	93.7	90.7	85.2	81.3	78.0	77.7	82.4	84.1	85.4	83.1	80.0	77.4	76.5	66.5	56.5
500	89.8	87.9	89.5	92.1	91.4	88.3	82.9	79.0	75.7	75.3	79.9	81.8	83.1	80.8	77.7	75.1	74.2	64.2	54.2
630	87.4	85.4	87.1	89.7	89.1	86.0	80.5	76.6	73.3	72.9	77.4	79.4	80.7	78.4	75.4	72.7	71.9	61.9	51.9
800	84.9	82.8	84.7	87.3	86.6	83.5	78.0	74.2	70.9	70.4	74.9	76.9	78.2	76.0	73.0	70.3	69.5	59.5	49.5
1000	82.3	80.2	82.1	84.8	84.1	81.0	75.5	71.7	68.5	67.8	72.2	74.3	75.6	73.6	70.5	67.7	67.0	57.0	47.0
1250	79.7	77.4	79.5	82.2	81.5	78.4	72.9	69.1	65.9	65.0	69.4	71.7	73.0	71.1	67.9	65.1	64.4	54.4	44.4
1600	76.9	74.6	76.7	79.5	78.8	75.7	70.1	66.4	63.2	62.2	66.5	69.0	70.3	68.4	65.2	62.3	61.8	51.8	41.8
2000	74.0	71.6	73.8	76.6	75.9	72.8	67.3	63.5	60.3	59.3	63.5	66.1	67.5	65.7	62.5	59.5	59.0	49.0	39.0
2500	70.9	68.4	70.7	73.6	72.9	69.7	64.2	60.5	57.3	56.1	60.3	63.1	64.5	62.8	59.4	56.4	56.0	46.0	36.0
3150	67.6	65.1	67.4	70.3	69.6	66.4	60.9	57.2	54.0	52.7	56.9	59.8	61.2	59.6	56.1	53.0	52.6	42.6	32.6
4000	63.1	60.6	63.0	65.7	64.9	61.9	56.3	52.7	49.7	48.8	53.2	55.9	57.5	55.7	52.3	49.1	48.9	38.9	28.9
5000	58.2	55.8	58.2	60.8	59.9	56.9	51.3	47.8	45.0	44.4	49.0	51.6	53.3	51.4	48.0	44.8	44.8	34.8	24.8
6300	52.9	50.6	52.9	55.5	54.4	51.5	45.8	42.4	39.8	39.6	44.5	47.0	48.8	46.8	43.5	40.2	40.3	30.3	20.3
8000	47.0	44.9	47.1	49.5	48.3	45.5	39.8	36.6	34.4	35.0	40.2	42.6	44.7	42.7	39.4	36.2	36.3	26.3	16.3
10000	40.4	38.5	40.7	42.9	41.5	38.8	33.0	30.2	28.5	30.0	35.5	37.9	40.2	38.4	35.1	32.0	32.0	22.0	12.0
12500	33.9	32.3	34.2	36.3	34.9	32.1	26.6	24.1	22.8	25.0	30.5	33.1	35.4	33.8	30.5	27.6	27.4	17.4	7.4
16000	26.5	25.2	26.8	28.7	27.2	24.4	19.3	17.4	15.7	19.0	25.2	27.9	30.3	28.9	25.6	22.9	22.5	12.5	2.5
20000	18.3	17.7	18.7	20.1	18.5	15.7	11.4	10.6	10.4	14.0	19.4	22.2	24.6	23.5	20.4	17.8	17.1	7.1	1.1
25000	9.9	9.9	10.4	11.3	9.2	6.6	3.7	4.0	4.1	8.0	13.3	16.1	18.5	17.5	14.0	12.5	11.4	1.4	0.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: A-7E AIRCRAFT  
 ENG. TF-41  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-004  
 RUN 01  
 AIRCRAFT CODE 133  
 OPERATION CODE 010.3  
 PROFILE VERSION 04 NOV 75  
 PAGE J1  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB

	P=PNLT		A=AL		T=ALT						
	10	20	30	40	50	60	70	80	90	100	110
	NOISE LEVEL IN PNDB OR DBA										
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 133																			
A-7E AIRCRAFT ( ENGINE RUNUP, 70% RPM ) TEMP = 59 F ) OPEATION CODE 01021																			
ENG. TF-41 ( SINGLE ENGINE ) BAR PRESS =29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ( REL HUMID = 70 % ) 04 NOV 75																			
( ( DELTA N = 0.0 DB ) PAGE C2																			
BAND CENTER																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	87	86	86	85	76	82	86	84	81	88	88	88	92	93	92	94	89	79	69
63	79	79	79	77	74	78	78	76	80	80	82	84	86	88	89	89	84	74	64
80	79	79	79	76	79	79	76	79	77	81	83	86	87	89	90	90	84	74	64
100	78	77	76	76	77	75	77	75	77	72	80	83	85	86	88	89	80	70	60
125	74	73	75	77	74	75	75	76	75	76	80	82	83	86	87	87	76	66	56
160	71	71	75	72	73	71	71	71	72	75	77	78	80	82	84	83	70	60	50
200	71	70	72	70	69	69	69	72	71	75	78	80	82	82	83	81	66	56	46
250	74	73	72	71	71	71	70	71	71	74	77	81	82	83	80	80	61	51	41
315	73	72	72	73	71	70	68	69	70	74	78	80	83	85	80	80	59	49	39
400	71	72	71	71	71	68	68	67	69	73	77	80	82	81	78	76	55	45	35
500	71	72	73	72	71	69	68	69	70	74	79	82	85	82	79	77	57	47	37
630	72	73	71	73	72	68	68	68	71	76	79	82	84	81	76	77	60	50	40
800	75	78	77	75	75	71	69	67	69	73	78	81	82	78	75	73	57	47	37
1000	73	79	77	76	75	71	70	67	68	73	77	81	80	76	75	73	56	46	36
1250	77	78	77	76	75	70	68	66	67	74	78	81	78	76	74	70	55	45	35
1600	83	86	86	90	86	80	80	72	72	77	80	83	77	75	76	73	57	47	37
2000	91	93	92	93	90	86	86	72	74	78	84	84	77	76	76	75	59	49	39
2500	84	83	82	81	79	77	78	70	68	74	77	81	74	74	71	67	54	44	34
3150	84	84	85	85	85	91	86	77	72	76	80	82	80	76	72	70	57	47	37
4000	84	85	84	84	84	82	80	73	69	76	82	83	83	77	73	70	56	46	36
5000	84	83	82	83	81	80	78	73	68	76	84	85	83	77	74	71	55	45	35
6300	81	81	78	80	79	77	75	68	65	73	78	82	79	76	72	69	53	43	33
8000	79	78	76	77	76	74	71	65	63	71	75	78	77	75	72	67	52	42	32
10000	75	74	73	73	71	69	67	61	62	67	72	73	73	71	67	62	49	39	29
OVERALL	96	96	96	96	94	94	93	88	87	91	94	96	97	98	98	98	92	82	72

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	111.4	112.2	111.6	112.0	110.0	111.4	109.3	101.1	98.9	103.6	108.6	110.9	109.6	106.8	104.4	103.0	91.9	79.7	68.1
250	109.1	109.9	109.3	109.8	107.7	109.1	105.9	98.6	96.6	101.2	106.2	108.5	107.3	104.5	102.2	100.9	89.4	77.2	65.6
315	106.8	107.6	107.0	107.5	105.4	106.7	103.6	96.4	94.2	98.8	103.7	106.1	104.9	102.2	100.0	98.6	86.8	74.7	63.1
400	104.4	105.2	104.6	105.1	103.1	104.2	101.1	94.0	91.7	96.3	101.2	103.5	102.5	99.8	97.6	96.3	84.1	72.2	60.4
500	101.9	102.8	102.1	102.6	100.6	101.6	98.5	91.4	89.2	93.8	98.5	100.8	99.8	97.2	95.2	93.8	81.4	69.6	57.6
630	99.3	100.2	99.6	100.1	98.0	98.9	95.8	88.7	86.5	91.2	95.6	98.9	97.0	94.4	92.6	91.3	78.6	65.9	54.5
800	96.6	97.5	96.9	97.4	95.3	96.0	92.9	85.8	83.6	88.4	92.5	94.9	94.1	91.5	89.8	88.5	75.8	64.1	51.1
1000	93.7	94.6	94.0	94.5	92.4	92.9	89.8	82.7	80.7	85.6	89.3	91.9	90.9	88.5	87.0	85.7	73.0	61.1	47.3
1250	90.6	91.6	91.0	91.5	89.4	89.5	86.4	79.4	77.6	82.5	85.9	88.7	87.4	85.3	83.8	82.5	69.6	57.5	42.4
1600	87.3	88.3	87.7	88.2	86.0	85.8	82.8	75.7	74.3	79.2	82.3	85.4	83.7	82.1	80.5	79.2	66.2	53.2	37.0
2000	83.7	84.8	84.2	84.7	82.5	81.7	79.2	71.7	70.7	75.6	78.4	81.3	80.4	78.8	76.9	75.6	61.9	47.7	27.7
2500	79.8	80.8	80.2	80.8	78.5	77.0	75.1	67.1	66.7	71.6	74.5	77.8	76.8	75.1	72.8	71.6	56.9	41.7	15.0
3150	75.4	76.5	75.9	76.5	74.2	71.8	70.7	61.9	62.2	67.2	70.1	73.4	72.5	70.9	68.5	67.1	50.8	34.0	2.2
4000	70.5	71.7	71.1	71.6	69.3	66.4	65.7	56.8	57.1	62.2	65.3	68.5	67.9	66.1	63.6	62.3	47.4	22.3	
5000	65.0	66.2	65.6	66.2	63.8	60.5	59.9	50.9	51.1	56.7	60.1	63.2	62.9	61.0	58.4	57.0	36.1	9.1	
6300	58.8	60.1	59.4	60.0	57.6	54.1	53.4	43.7	44.1	50.5	54.0	57.5	57.5	55.5	52.8	51.3	25.4		
8000	52.1	53.4	52.6	53.3	50.9	47.1	46.4	36.6	38.0	44.4	48.6	52.2	53.0	51.2	47.9	46.7	14.4		
10000	43.6	45.3	44.5	46.3	42.4	37.5	36.6	29.6	31.4	38.5	42.8	46.7	48.0	46.0	42.8	40.8	3.4		
12500	32.6	34.5	33.6	35.9	32.3	23.5	22.7	18.8	21.7	31.4	36.4	40.4	42.4	39.9	36.4	33.7			
16000	18.7	22.6	21.5	20.3	13.2	7.4	8.9	8.3	11.5	22.2	29.3	33.4	36.0	33.4	28.8	25.9			
20000	4.7	10.6	9.3	4.7	4.1				1.2	10.3	19.0	24.8	29.1	25.9	18.8	14.4			
25000										8.6	11.0	14.7	12.3	8.7	2.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:					METEOROLOGY:					IDENTIFICATION:								
	A-7E	ENGINE RUNUP, 70% RPM	TEMP	BAR PRESS =29.92 IN HG	AIR CRAFT CODE 133	OMEGA 8.2	ENG. TF-41	SINGLE ENGINE	REL HUMID = 70 %	PROFLE VERSION A	TEST 74-004-004	RUN 02	OPERATION CODE 01021	04 NOV 75	PAGE E2				
GROUND RUNUP	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(				
ANGLE (DEGREES)																			
( DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
( (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
( 200	113.8	115.0	114.4	115.1	112.9	115.2	110.9	102.9	100.3	103.6	109.8	111.9	109.6	105.8	105.4	104.6	93.1	80.9	69.3
( 250	111.6	112.7	112.2	112.8	110.7	112.9	108.6	100.6	98.0	101.2	107.4	109.6	107.3	104.5	103.3	102.5	90.6	78.4	66.8
( 315	109.2	110.4	109.9	110.5	108.4	110.5	106.2	98.2	95.6	98.8	105.0	107.1	104.9	102.2	101.0	100.3	88.0	75.9	64.3
( 400	106.8	108.0	107.5	108.1	106.0	108.0	103.8	95.7	93.2	96.3	102.4	104.6	102.5	99.8	98.7	98.0	85.3	73.4	61.6
( 500	104.4	105.5	105.0	105.7	103.5	105.4	101.2	93.1	90.6	93.8	99.7	101.9	99.8	97.2	96.2	95.5	82.6	70.8	58.8
( 630	101.8	103.0	102.5	103.1	100.9	102.7	98.5	90.4	87.9	91.2	96.8	99.0	97.0	94.4	93.6	93.0	79.8	68.1	55.7
( 800	99.0	100.3	99.8	100.4	98.2	99.8	95.6	87.5	85.1	88.4	93.7	96.0	94.1	91.5	90.9	90.2	77.0	65.3	52.3
( 1000	96.1	97.4	96.9	97.5	95.4	96.7	92.5	84.4	82.1	85.6	90.5	92.9	90.9	88.5	88.0	87.3	74.2	62.3	48.5
( 1250	93.1	94.3	93.9	94.5	92.3	93.3	89.1	81.1	79.0	82.5	87.1	89.8	87.4	85.3	84.9	84.2	70.8	58.7	43.6
( 1600	89.7	91.1	90.6	91.2	89.0	89.6	85.5	77.5	75.8	79.2	83.5	86.5	83.7	82.1	81.5	80.9	67.4	54.4	38.2
( 2000	86.2	87.5	87.1	87.7	85.4	85.5	81.8	73.4	72.1	75.6	79.6	82.9	80.4	78.8	77.9	77.2	63.1	48.9	28.9
( 2500	82.2	83.6	83.1	83.8	81.5	80.8	77.8	68.9	68.1	71.6	75.7	78.9	76.8	75.1	73.9	73.3	58.1	42.9	16.2
( 3150	77.9	79.3	78.8	79.5	77.2	75.6	73.4	63.7	63.6	67.2	71.3	74.5	72.6	70.9	69.5	68.8	52.0	35.2	3.4
( 4000	72.5	73.9	73.4	74.1	71.7	69.4	67.8	58.2	58.3	62.2	66.3	69.4	67.9	66.1	64.4	63.6	44.4	23.2	
( 5000	66.5	67.9	67.4	68.0	65.6	62.8	61.6	51.9	51.9	56.7	60.8	63.9	62.9	61.0	59.0	58.0	36.8	9.8	
( 6300	59.8	61.2	60.6	61.3	58.8	55.6	54.5	44.4	44.7	50.5	54.5	57.9	57.5	55.5	53.3	52.0	25.8		
( 8000	52.6	53.9	53.2	53.9	51.5	47.9	46.9	37.0	38.3	44.4	48.8	52.4	53.0	51.2	48.1	46.7	14.6		
( 10000	43.6	45.3	44.5	46.3	42.4	37.5	36.6	29.6	31.4	38.5	42.8	46.7	48.0	46.0	42.8	40.8	3.4		
( 12500	32.6	34.5	33.6	35.9	32.3	23.6	22.7	18.8	21.7	28.4	36.4	40.4	42.4	39.9	36.4	33.7			
( 16000	18.7	22.6	21.5	20.3	18.2	7.4	8.9	8.3	11.5	22.2	29.3	33.4	36.0	33.4	28.8	25.9			
( 20000	4.7	10.6	9.3	4.7	4.1	1.2	10.3	19.0	24.8	29.1	25.9	18.8	14.4						
( 25000							8.6	11.0	18.7	12.3	8.7	2.9							

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>190
200	97.8	98.7	98.1	99.1	97.0	96.7	94.0	85.3	83.7	89.1	93.3	96.0	94.3	91.5	89.0	87.3	72.8	62.8	52.8
250	95.5	96.5	95.9	96.9	94.7	94.4	91.8	83.0	81.5	86.8	91.0	93.7	92.1	89.3	86.9	85.2	70.7	60.7	50.7
315	93.2	94.2	93.6	94.6	92.4	92.1	89.5	80.7	79.3	84.6	88.7	91.4	89.8	87.1	84.7	83.0	68.6	58.6	48.6
400	90.8	91.9	91.3	92.3	90.1	89.6	87.1	78.3	77.0	82.2	86.2	89.0	87.4	84.8	82.4	80.8	66.4	56.4	46.4
500	88.4	89.5	88.9	89.9	87.7	87.1	84.6	75.8	74.6	79.8	83.7	86.6	85.0	82.5	80.1	78.5	64.2	54.2	44.2
630	85.8	87.0	86.4	87.4	85.1	84.5	82.0	73.2	72.2	77.3	81.1	84.0	82.5	80.1	77.7	76.2	61.9	51.9	41.9
800	83.2	84.4	83.8	84.9	82.5	81.7	79.3	70.5	69.7	74.7	78.4	81.4	80.0	77.7	75.3	73.8	59.6	49.6	39.6
1000	80.4	81.7	81.1	82.2	79.8	78.7	76.5	67.7	67.0	72.1	75.6	78.7	77.4	75.2	72.8	71.3	57.1	47.1	37.1
1250	77.5	78.8	78.2	79.4	76.9	75.5	73.5	64.7	64.3	69.3	72.7	75.8	74.7	72.5	70.1	68.7	54.4	44.4	34.4
1600	74.4	75.8	75.2	76.4	73.8	72.1	70.2	61.6	61.4	66.4	69.7	72.9	72.0	69.8	67.4	65.9	51.5	41.5	31.5
2000	71.1	72.5	71.9	73.1	70.5	68.4	66.8	58.3	58.4	63.4	66.7	69.9	69.2	67.0	64.5	63.0	48.2	38.2	28.2
2500	67.6	69.0	68.4	69.7	67.0	64.4	63.0	54.8	55.2	60.2	63.5	66.7	66.3	64.0	61.4	59.9	44.7	34.7	24.7
3150	63.7	65.1	64.5	65.8	63.1	60.0	58.9	51.1	51.8	56.8	60.0	63.3	63.1	60.6	57.9	56.5	40.9	30.9	20.9
4000	59.4	60.9	60.3	61.6	58.9	55.3	54.5	47.0	47.9	53.0	56.3	59.6	59.5	56.9	54.2	52.7	36.8	26.8	16.8
5000	54.7	56.2	55.5	56.9	54.2	50.1	49.5	42.7	43.7	48.7	52.2	55.4	55.4	52.7	50.0	48.5	32.4	22.4	12.4
6300	49.4	50.9	50.2	51.6	48.9	44.6	44.1	37.9	39.1	44.2	47.7	50.9	51.1	48.3	45.5	44.0	27.9	17.9	7.9
8000	43.8	45.2	44.5	45.6	43.2	38.8	38.2	33.5	34.7	39.8	43.4	46.6	47.3	44.5	41.6	40.2	24.4	14.4	4.4
10000	37.8	39.1	38.4	39.2	37.0	32.8	32.0	28.8	30.2	35.2	38.9	42.0	43.2	40.5	37.3	36.1	20.9	10.9	.9
12500	31.5	32.7	32.0	32.3	30.5	26.7	25.7	23.9	25.4	30.3	34.0	37.1	38.6	36.1	32.9	31.8	17.5	7.5	
16000	25.1	26.2	25.5	25.3	24.0	20.6	19.7	18.9	20.3	25.1	28.8	31.8	33.6	31.4	28.2	27.2	14.3	4.3	
20000	18.5	19.4	19.0	18.6	17.4	14.6	13.9	13.6	14.9	19.4	23.1	26.0	28.1	26.2	23.2	22.5	11.3	1.3	
25000	12.0	12.6	12.3	11.9	10.7	8.7	8.4	8.2	9.2	13.5	17.1	19.8	22.1	20.8	18.3	17.9	8.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.2	101.5	101.0	102.1	99.9	100.5	96.7	87.0	85.2	89.1	94.6	97.1	94.7	91.5	90.1	89.0	74.0	64.0	54.0
250	97.9	99.3	98.8	99.9	97.7	98.2	94.5	84.8	83.0	86.8	92.3	94.8	92.1	89.3	87.9	86.9	71.9	61.9	51.9
315	95.6	97.0	96.5	97.7	95.4	95.9	92.1	82.4	80.7	84.6	89.9	92.5	89.8	87.1	85.7	84.7	69.8	59.8	49.8
400	93.3	94.7	94.2	95.3	93.0	93.4	89.8	80.0	78.4	82.2	87.5	90.1	87.4	84.8	83.4	82.5	67.6	57.6	47.6
500	90.8	92.3	91.8	93.0	90.6	90.9	87.3	77.5	76.0	79.8	84.9	87.6	85.0	82.5	81.1	80.2	65.4	55.4	45.4
630	88.3	89.8	89.3	90.5	88.3	88.3	84.7	74.9	73.6	77.3	82.3	85.1	82.5	80.1	78.7	77.9	63.1	53.1	43.1
800	85.6	87.2	86.7	87.9	85.5	85.5	82.0	72.2	71.1	74.7	79.6	82.4	80.0	77.7	76.3	75.5	60.8	50.8	40.8
1000	82.9	84.4	83.9	85.2	82.7	82.5	79.2	69.4	68.5	72.1	76.8	79.7	77.4	75.2	73.8	73.0	58.3	48.3	38.3
1250	80.0	81.6	81.1	82.4	79.8	79.3	76.2	66.4	65.7	69.3	73.9	76.9	74.7	72.5	71.1	70.3	55.6	45.6	35.6
1600	76.9	78.5	78.0	79.4	76.8	75.9	72.9	63.3	62.9	66.4	71.0	74.0	72.0	69.8	68.4	67.6	52.7	42.7	32.7
2000	73.6	75.3	74.8	76.2	73.5	72.2	69.4	60.0	59.9	63.4	67.9	71.0	69.2	67.0	65.5	64.7	49.4	39.4	29.4
2500	70.0	71.8	71.2	72.7	69.9	68.2	65.7	56.5	56.7	60.2	64.7	67.8	66.3	64.0	62.4	61.6	45.9	35.9	25.9
3150	66.1	67.9	67.4	68.9	66.1	63.8	61.6	52.8	53.2	56.9	61.3	64.4	63.1	60.6	59.0	58.2	42.1	32.1	22.1
4000	61.4	63.1	62.6	64.1	61.3	58.3	56.6	48.4	49.1	53.0	57.3	60.4	59.5	56.9	55.0	54.0	37.7	27.7	17.7
5000	56.1	57.8	57.2	58.7	55.9	52.4	51.1	43.7	44.3	48.7	52.9	56.1	55.5	52.7	50.5	49.5	33.1	23.1	13.1
6300	50.4	52.0	51.4	52.8	50.1	46.1	45.1	38.6	39.6	44.2	48.2	51.4	51.1	48.3	45.9	44.7	28.4	18.4	8.4
8000	44.3	45.7	45.1	46.3	43.7	39.6	38.7	33.8	35.0	39.4	43.7	46.9	47.3	44.5	41.8	40.5	24.6	14.6	4.6
10000	37.8	39.1	38.4	39.2	37.0	32.9	32.0	28.8	30.2	35.2	38.9	42.0	43.2	40.5	37.3	36.1	20.9	10.9	0.9
12500	31.5	32.7	32.0	32.3	30.5	26.7	25.7	23.9	25.4	30.3	34.0	37.1	38.6	36.1	32.9	31.8	17.5	7.5	
16000	25.1	26.2	25.5	25.3	24.0	20.6	19.7	18.9	20.3	25.1	28.8	31.4	33.6	31.4	28.2	27.2	14.3	4.3	
20000	18.5	19.4	19.0	18.6	17.4	14.6	13.9	13.6	14.9	19.4	23.1	26.0	28.1	26.2	23.3	22.5	11.3	1.3	
25000	12.0	12.6	12.3	11.9	10.7	8.7	8.4	8.2	9.2	13.5	17.1	19.8	22.1	20.8	18.3	17.9	8.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-004  
 RUN 02  
 AIRCRAFT CODE 133  
 OPERATION CODE 01021  
 PROFILE VERSION A  
 04 NOV 75  
 PAGE J2  
 METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 09  
 OPERATIONS:  
 ENGINE RUNUP, 70% RPM  
 SINGLE ENGINE  
 AIRCRAFT  
 A-7E TF-41  
 GROUND RUNUP

ANGLE	P=PNLT		A=AL		T=ALT	
	NOISE LEVEL IN PNDB	OR	NOISE LEVEL IN PNDB	OR	NOISE LEVEL IN PNDB	OR
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						
160						
170						
180						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



NORMALIZED SOUND PRESSURE LEVEL (DB)																			
BAND CENTER FREQ (HZ)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	73	75	75	76	76	76	79	80	79	82	86	89	94	97	105	100	94	87	80
63	77	78	79	80	80	79	83	83	84	87	89	94	99	103	110	105	98	92	85
80	77	77	76	78	78	79	81	81	82	85	87	91	96	101	108	103	96	90	83
100	79	80	81	81	81	82	83	83	84	88	91	94	99	104	111	106	99	92	86
125	81	81	81	82	83	83	84	85	85	89	93	95	100	106	111	106	99	93	86
160	83	83	85	83	84	83	83	85	86	89	94	96	100	107	113	108	101	95	88
200	83	84	84	83	83	84	83	85	86	90	95	97	100	106	112	107	101	94	87
250	84	84	84	85	84	84	83	85	86	91	96	98	102	106	110	105	99	92	85
315	84	85	84	85	85	85	84	85	86	91	96	98	102	104	106	101	94	88	81
400	83	84	85	85	85	85	84	86	87	92	97	99	102	104	104	99	92	85	79
500	81	83	84	84	85	84	83	85	86	92	96	98	101	103	102	97	90	84	77
630	80	83	83	83	85	84	83	85	86	93	96	99	101	102	102	96	90	83	76
800	80	82	82	83	84	84	83	85	85	92	95	97	99	100	100	95	88	82	75
1000	80	81	82	81	84	83	82	83	84	91	93	95	97	98	98	93	86	80	73
1250	79	80	81	81	83	83	81	83	83	91	92	94	96	95	96	90	84	77	70
1600	80	81	81	81	83	83	81	84	83	89	91	92	94	93	92	86	80	73	66
2000	83	84	84	83	83	83	81	83	82	89	90	92	93	91	89	84	77	70	64
2500	89	91	90	88	89	90	87	88	87	93	95	91	92	90	86	81	74	67	61
3150	88	90	87	85	86	86	83	85	83	90	93	92	92	89	84	79	72	66	59
4000	87	88	86	84	83	83	81	84	81	90	92	93	91	89	84	80	73	66	60
5000	88	89	88	87	85	85	82	83	81	89	92	92	91	87	83	79	72	65	59
6300	86	87	86	84	84	84	80	80	80	87	88	89	87	85	80	75	68	62	55
8000	83	84	82	82	81	80	77	79	79	87	89	89	86	85	79	74	67	60	54
10000	79	80	78	78	76	76	73	75	75	82	85	86	83	81	75	70	64	57	50
OVERALL	97	99	96	97	98	98	96	98	96	104	107	109	112	115	120	115	108	102	95

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:			METEOROLOGY:			IDENTIFICATION:												
	ENGINE RUNUP, 85% RPM	TEMP	BAR PRESS = 29.92 IN HG	REL HUMID = 70 %	DELTA N = 0.0 DB	AIRCRAFT CODE 133	OPERATION CODE 01018	PROFILE VERSION A	04 NOV 75	PAGE 03									
ENGINE	SINGLE ENGINE	TEMP	BAR PRESS = 29.92 IN HG	REL HUMID = 70 %	DELTA N = 0.0 DB	AIRCRAFT CODE 133	OPERATION CODE 01018	PROFILE VERSION A	04 NOV 75	PAGE 03									
GROUND RUNUP																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	113.5	114.9	113.9	113.0	113.4	113.7	111.4	113.0	112.2	118.6	121.1	121.6	122.5	123.4	126.0	120.9	114.3	107.6	100.8
250	111.2	112.7	111.6	111.2	111.4	109.2	109.2	110.8	109.9	116.4	118.9	119.3	120.3	121.3	123.9	118.9	112.2	105.5	98.7
315	108.9	110.3	109.3	108.4	108.8	109.1	106.8	108.5	107.6	114.1	116.6	116.9	118.1	119.2	121.8	116.8	110.1	103.4	96.6
400	106.5	107.9	106.9	106.0	106.4	106.7	104.5	106.1	105.2	111.7	114.2	114.5	115.8	117.0	119.6	114.6	107.9	101.1	94.3
500	103.9	105.3	104.4	103.4	103.9	104.2	102.0	103.6	102.8	109.2	111.8	112.0	113.5	114.7	117.3	112.2	105.5	98.7	91.9
630	101.3	102.7	101.7	100.8	101.3	101.6	99.4	101.0	100.2	106.6	109.2	109.3	111.1	112.3	114.8	109.8	103.0	96.2	89.3
800	98.4	99.9	98.9	98.0	98.6	98.9	96.6	98.3	97.4	103.9	106.5	106.6	108.6	109.9	112.3	107.2	100.4	93.6	86.7
1000	95.4	96.9	95.9	95.0	95.6	95.9	93.7	95.4	94.5	101.0	103.6	103.6	106.0	107.3	109.5	104.4	97.6	90.8	83.7
1250	92.2	93.6	92.7	91.8	92.5	92.8	90.6	92.2	91.4	97.8	100.5	100.6	103.3	104.6	106.6	101.4	94.6	87.7	80.5
1600	88.7	90.2	89.3	88.4	89.0	89.3	87.1	88.8	88.0	94.5	97.1	97.6	100.4	101.7	103.3	98.1	91.3	84.2	77.0
2000	84.9	86.4	85.5	84.7	85.4	85.7	83.5	85.2	84.4	90.8	93.5	94.4	97.2	98.7	100.0	94.8	87.8	80.8	73.8
2500	80.7	82.2	81.3	80.5	81.3	81.6	79.4	81.1	80.4	86.8	89.5	90.7	93.4	94.9	96.2	90.9	83.9	76.9	69.9
3150	76.0	77.5	76.7	75.9	76.7	77.0	74.9	76.6	75.9	82.3	85.2	86.9	89.4	90.9	92.0	86.5	79.5	72.5	65.4
4000	70.7	72.2	71.5	70.7	71.6	71.9	69.7	71.4	70.8	77.6	80.8	82.6	85.1	86.4	87.5	81.9	75.0	67.9	60.7
5000	64.8	66.3	65.7	64.9	65.9	66.1	64.1	65.8	65.9	72.7	75.9	77.8	80.3	81.7	82.7	77.2	70.2	63.0	55.6
6300	58.2	59.8	59.2	58.8	60.1	59.9	58.4	60.6	60.7	67.6	70.8	72.8	75.4	76.7	77.8	72.2	65.1	57.8	50.1
8000	52.3	54.0	54.2	54.4	55.5	55.3	53.8	55.9	56.3	63.2	66.5	68.6	71.3	73.0	74.1	68.5	61.3	53.8	45.6
10000	46.7	48.8	49.1	49.3	50.4	50.0	48.5	50.9	51.3	58.5	61.9	64.2	67.1	69.0	70.1	64.6	57.1	49.3	40.5
12500	40.7	42.8	43.4	43.4	44.6	44.2	42.6	45.2	45.6	53.2	56.9	59.1	62.5	64.6	66.0	60.3	52.6	44.2	34.9
16000	33.4	35.9	36.4	36.9	37.9	37.4	36.0	38.5	39.2	47.1	51.5	53.8	57.5	59.8	61.4	55.6	47.5	38.6	28.4
20000	25.3	28.2	28.7	29.4	30.7	30.2	28.2	31.3	31.8	40.4	45.5	48.0	51.8	54.4	56.3	50.1	41.4	31.8	15.9
25000	12.5	16.9	17.8	18.6	19.6	18.9	16.9	20.6	21.3	32.2	38.2	40.9	45.2	48.3	50.5	43.7	34.3	21.8	3.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
A-7E AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG. TF-41	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = 0.0 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-004																				
RUN 03																				
AIRCRAFT CODE 133																				
OPERATION CODE 01018																				
PROFILE VERSION A																				
04 NOV 75																				
PAGE 57																				
ANGLE (DEGREES)																				
(DISTANCE (FEET))	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
200	114.0	116.2	115.3	114.5	114.9	115.4	113.0	114.6	113.6	119.8	122.3	121.6	122.5	123.4	126.0	120.9	114.3	107.6	100.8	
250	112.5	114.0	113.0	112.2	112.6	113.2	110.7	112.3	111.3	117.5	120.0	119.3	120.3	121.3	123.9	118.9	112.2	105.5	98.7	
315	110.1	111.6	110.7	109.9	110.3	110.0	108.4	110.0	109.0	115.2	117.8	116.9	118.1	119.2	121.8	116.8	110.1	103.4	96.6	
400	107.7	109.2	108.2	107.5	107.9	108.4	106.1	107.6	106.7	112.8	115.4	114.5	115.8	117.0	119.6	114.6	107.9	101.1	94.3	
500	105.2	106.7	105.7	105.0	105.4	106.0	103.6	105.2	104.2	110.4	112.9	112.0	113.5	114.7	117.3	112.2	105.5	98.7	91.9	
630	102.5	104.0	103.1	102.3	102.8	103.3	101.0	102.6	101.6	107.8	110.3	109.3	111.1	112.3	114.8	109.6	103.0	96.2	89.3	
680	99.7	101.2	100.3	99.5	100.0	100.6	98.2	99.8	98.9	105.0	107.6	106.6	108.6	109.9	112.3	107.2	100.4	93.6	86.7	
1000	96.7	98.2	97.3	96.6	97.1	97.6	95.3	96.9	96.0	102.1	104.7	103.6	106.0	107.3	109.5	104.4	97.6	90.8	83.7	
1250	93.4	94.9	94.1	93.4	93.9	94.5	92.1	93.8	92.8	99.0	101.6	100.6	103.3	104.6	106.6	101.4	94.6	87.7	80.5	
1600	89.9	91.5	90.6	89.9	90.5	91.1	88.7	90.4	89.5	95.6	98.3	97.6	100.4	101.7	103.3	98.1	91.3	84.2	77.0	
2000	86.1	87.7	86.8	86.2	86.8	87.4	85.1	86.7	85.8	92.0	94.6	94.4	97.2	98.7	100.0	94.8	87.8	80.8	73.8	
2500	81.9	83.5	82.7	82.1	82.7	83.3	81.0	82.7	81.8	88.0	90.6	90.7	93.4	94.9	96.2	90.9	83.9	76.9	69.9	
3150	77.2	78.8	78.0	77.4	78.2	78.7	76.5	78.1	77.3	83.5	86.3	86.9	89.4	90.9	92.0	86.5	79.5	72.5	65.4	
4000	71.7	73.3	72.6	72.0	72.8	73.2	71.0	72.7	71.9	78.5	81.7	82.6	85.1	86.4	87.5	81.9	75.0	67.9	60.7	
5000	65.6	67.1	66.5	65.9	66.7	67.2	65.0	66.8	66.8	73.4	76.6	77.8	80.3	81.7	82.7	77.2	70.2	63.0	55.6	
6300	58.7	60.4	59.7	59.5	60.7	60.6	59.1	61.2	61.2	68.1	71.3	72.8	75.4	76.7	77.8	72.2	65.1	57.8	50.1	
8000	52.5	54.2	54.5	54.7	55.8	55.6	54.1	56.2	56.6	63.4	66.7	68.6	71.3	73.0	74.1	68.5	61.3	53.8	45.6	
10000	46.7	48.8	49.1	49.3	50.4	50.0	48.5	50.9	51.3	58.5	61.9	64.2	67.1	69.0	70.1	64.6	57.1	49.3	40.5	
12500	40.7	42.8	43.4	43.4	44.6	44.2	42.6	45.2	45.6	53.2	56.9	59.1	62.5	64.6	66.0	60.3	52.6	44.2	34.9	
16000	33.4	35.9	36.4	36.9	37.9	37.4	36.0	38.5	39.2	47.1	51.5	53.8	57.5	59.8	61.4	55.6	47.5	38.6	28.4	
20000	25.3	28.2	28.7	29.4	30.7	30.2	28.2	31.3	31.8	40.4	45.5	48.0	51.8	54.4	56.3	50.1	41.4	31.8	15.9	
25000	12.5	16.9	17.8	18.6	19.6	18.9	16.9	20.6	21.3	32.2	38.2	40.9	45.2	48.3	50.5	43.7	34.3	21.8	3.3	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY:																		
	TEMP = 59 F																		
A-7E AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. TF-41	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 0.0 DB																		
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-004																			
RUN 03																			
AIRCRAFT CODE 133																			
OPERATION CODE 01010																			
PROFILE VERSION A																			
04 NOV 75																			
PAGE F3																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	99.1	100.6	99.3	98.2	98.7	98.8	98.4	98.1	97.4	104.3	106.8	107.8	109.7	110.5	112.0	106.9	100.3	93.6	86.9
250	96.8	98.3	97.0	95.9	96.4	96.6	94.2	95.9	95.2	102.1	104.6	105.6	107.6	108.4	110.0	104.9	98.2	91.5	84.9
315	94.4	95.9	94.7	93.6	94.1	94.3	91.9	93.7	93.0	99.9	102.4	103.4	105.5	106.3	108.0	102.8	96.2	89.5	82.8
400	91.9	93.4	92.2	91.2	91.8	91.9	89.6	91.4	90.7	97.6	100.1	101.2	103.3	104.2	105.8	100.7	94.1	87.4	80.7
500	89.3	90.8	89.7	88.7	89.4	89.5	87.2	89.0	88.4	95.2	97.8	98.9	101.1	102.0	103.6	98.5	91.9	85.2	78.5
630	86.6	88.2	87.1	86.1	86.9	87.0	84.8	86.6	86.0	92.8	95.4	96.6	98.9	99.8	101.3	96.2	89.5	82.9	76.2
800	83.8	85.4	84.3	83.4	84.3	84.4	82.2	84.0	83.5	90.3	92.9	94.2	96.6	97.5	99.0	93.8	87.1	80.5	73.8
1000	80.9	82.4	81.5	80.7	81.6	81.7	79.6	81.4	81.0	87.8	90.4	91.8	94.2	95.2	96.5	91.3	84.7	78.0	71.3
1250	77.8	79.4	78.5	77.8	78.8	78.9	76.9	78.7	78.3	85.1	87.8	89.3	91.7	92.7	93.8	88.7	82.0	75.4	68.7
1600	74.6	76.1	75.4	74.8	75.9	75.9	74.0	75.9	75.6	82.4	85.1	86.7	89.2	90.2	91.1	85.9	79.3	72.6	65.9
2000	71.2	72.7	72.2	71.7	72.9	72.9	71.1	72.9	72.8	79.5	82.3	84.0	86.6	87.5	88.3	83.1	76.4	69.7	63.1
2500	67.5	69.1	68.7	68.4	69.7	69.6	67.9	69.8	69.7	76.5	79.3	81.1	83.6	84.6	85.1	79.9	73.2	66.6	59.9
3150	63.6	65.2	65.0	64.8	66.2	66.0	64.4	66.3	66.4	73.2	76.0	77.9	80.4	81.3	81.7	76.4	69.8	63.1	56.4
4000	59.4	61.0	61.0	60.9	62.4	62.2	60.7	62.6	62.7	69.6	72.3	74.3	76.8	77.6	77.9	72.6	66.0	59.3	52.6
5000	54.9	56.5	56.6	56.6	58.2	57.9	56.5	58.4	58.5	65.5	68.2	71.2	72.7	73.5	73.8	68.5	61.8	55.2	48.5
6300	50.1	51.8	52.0	52.1	53.7	53.4	52.1	53.9	54.1	61.1	63.8	65.9	68.4	69.1	69.4	64.1	57.5	50.8	44.1
9000	45.7	47.5	47.7	47.9	49.6	49.2	47.3	49.8	50.1	57.0	59.9	62.0	64.5	65.4	65.7	60.5	53.8	47.1	40.5
13000	41.2	43.0	43.3	43.6	45.1	44.7	43.5	45.4	45.7	52.6	55.7	57.8	60.4	61.4	61.8	56.5	49.8	43.2	36.5
12500	36.4	38.3	38.6	38.9	40.3	39.9	38.7	40.7	41.0	47.9	51.0	53.2	55.9	57.0	57.5	52.2	45.5	38.9	32.2
16000	31.3	33.1	33.4	33.8	35.0	34.6	33.5	35.5	35.9	42.5	46.0	48.1	50.9	52.2	52.8	47.6	41.0	34.3	27.6
20000	25.8	27.6	27.9	28.2	29.3	28.9	27.8	29.8	30.3	36.7	40.4	42.5	45.5	46.9	48.0	42.8	36.1	29.5	22.8
25000	19.9	21.5	21.9	22.2	23.1	22.7	21.6	23.7	24.2	30.4	34.3	36.4	39.5	41.3	43.0	37.9	31.2	24.5	17.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	103.4	101.9	100.7	99.8	100.1	100.5	98.3	99.7	98.8	105.5	108.0	107.8	109.7	110.5	112.0	106.9	100.3	93.6	86.9
250	98.0	99.6	98.4	97.5	97.9	98.3	95.8	97.5	98.6	103.3	105.8	105.6	107.6	108.4	110.0	104.9	98.2	91.5	84.9
315	95.6	97.2	96.0	95.1	95.6	96.0	93.5	95.2	98.4	101.0	103.5	103.4	105.5	106.3	108.0	102.8	96.2	89.5	82.8
400	93.1	94.7	93.6	92.7	93.2	93.6	91.2	92.9	92.1	98.7	101.3	101.2	103.3	104.2	105.8	100.7	94.1	87.4	80.7
500	90.6	92.2	91.0	90.2	90.8	91.2	88.8	90.5	89.8	96.4	98.9	98.9	101.1	102.0	103.6	98.5	91.9	85.2	78.5
630	87.9	89.5	88.4	87.6	88.3	88.7	86.3	88.1	87.4	94.0	96.5	96.6	98.9	99.8	101.3	96.2	89.5	82.9	76.2
800	85.1	86.7	85.7	85.0	85.7	86.1	83.8	85.6	84.9	91.5	94.1	94.2	96.6	97.5	99.0	93.8	87.1	80.5	73.8
1000	82.1	83.8	82.8	82.2	83.0	83.4	81.2	83.0	82.4	88.9	91.6	91.9	94.2	95.2	96.5	91.3	84.7	78.0	71.3
1250	79.1	80.7	79.8	79.3	80.3	80.6	78.5	80.2	79.8	86.3	88.9	89.3	91.7	92.7	93.8	88.7	82.0	75.4	68.7
1600	75.8	77.4	76.7	76.3	77.4	77.6	75.6	77.4	77.1	83.5	86.2	86.7	89.2	90.2	91.1	85.9	79.3	72.6	65.9
2000	72.4	74.0	73.5	73.2	74.3	74.5	72.7	74.5	74.2	80.7	83.5	84.0	86.6	87.5	88.3	83.1	76.4	69.7	63.1
2500	68.8	70.4	70.1	69.9	71.1	71.3	69.5	71.3	71.1	77.6	80.4	81.1	83.6	84.6	85.1	79.9	73.2	66.6	59.9
3150	64.9	66.5	66.3	66.3	67.6	67.7	66.0	67.9	67.8	74.3	77.1	77.9	80.4	81.3	81.7	76.4	69.8	63.1	56.4
4000	60.4	62.1	62.1	62.1	63.6	63.5	62.0	63.8	63.8	70.5	73.2	74.3	76.8	77.6	77.9	72.6	66.0	59.3	52.6
5000	55.6	57.3	57.4	57.5	59.1	59.0	57.5	59.3	59.4	66.2	68.9	70.2	72.7	73.5	73.8	68.5	61.8	55.2	48.5
6300	50.6	52.3	52.5	52.7	54.3	54.1	52.7	54.6	54.7	61.6	64.3	65.9	68.4	69.1	69.4	64.1	57.5	50.8	44.1
8000	46.0	47.7	48.0	48.2	49.9	49.5	48.2	50.1	50.4	57.3	60.1	62.0	64.6	65.4	65.7	60.5	53.8	47.1	40.5
10000	41.2	43.0	43.3	43.6	45.1	44.7	43.5	45.4	45.7	52.6	55.7	57.8	60.4	61.4	61.8	56.5	49.8	43.2	36.5
12500	36.4	38.3	38.6	38.9	40.3	39.9	38.7	40.7	41.0	47.8	51.0	53.2	55.9	57.0	57.5	52.2	45.5	38.9	32.2
16000	31.3	33.1	33.4	33.8	35.0	34.6	33.5	35.5	35.9	42.5	46.0	48.1	50.9	52.2	52.8	47.6	41.0	34.3	27.6
20000	25.8	27.6	27.9	28.2	29.3	28.9	27.8	29.8	30.3	36.7	40.4	42.5	45.5	46.9	48.0	42.8	36.1	29.5	22.8
25000	19.9	21.5	21.9	22.2	23.1	22.7	21.6	23.7	24.2	30.4	34.3	36.4	39.5	41.3	43.0	37.9	31.2	24.5	17.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT:  
 A-7E AIRCRAFT  
 ENG. TF-41  
 GROUND RUNUP  
 IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-004-004  
 RUN 03  
 AIRCRAFT CODE 133  
 OPERATION CODE 01016  
 PROFILE VERSION A  
 04 NOV 75  
 PAGE J3  
 METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB

ANGLE	NOISE LEVEL IN PNOB OR DBA											
	30	40	50	60	70	80	90	100	110	120	130	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
>160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT	OPERATION:						METEOROLOGY:						IDENTIFICATION:						
	AIRCRAFT						TEMP							OMEGA 8.2					
ENG. TF-41	INTERMEDIATE POWER (MIL)						BAR PRESS = 29.92 IN HG						TEST 74-004-004						
GROUND RUNUP	SINGLE ENGINE						REL HUMID = 70 %						RUN 04						
	DELTA N = 3.0 DB												AIRCRAFT CODE 133						
													OPERATION CODE 01006						
													PROFILE VERSION A						
													04 NOV 75						
													PAGE C4						
BAND CENTER																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	83	81	83	84	84	84	85	86	87	87	92	88	90	98	102	101	94	88	81
63	84	85	85	85	86	86	87	89	88	90	93	91	92	102	105	104	97	90	84
80	85	86	86	87	87	87	87	88	90	93	96	93	96	105	109	106	99	93	86
100	89	89	88	90	89	90	91	90	93	95	99	98	100	109	111	109	102	96	89
125	91	91	90	91	90	90	91	92	93	98	101	100	103	112	113	110	103	96	90
160	95	93	95	93	92	92	92	94	95	98	102	101	105	115	115	112	105	98	92
200	91	91	94	93	93	91	91	92	94	100	103	101	104	115	115	113	106	99	93
250	93	96	96	96	94	94	92	94	96	101	105	104	105	114	116	115	108	102	95
315	101	99	99	99	97	94	93	93	97	102	107	105	107	114	115	116	109	103	96
400	107	108	108	107	103	99	96	96	98	104	107	106	107	114	115	115	108	101	95
500	105	106	106	108	105	103	100	98	99	105	107	106	107	112	115	113	107	100	93
630	100	104	105	107	106	105	103	101	100	106	108	107	106	112	113	112	106	99	92
800	98	102	103	105	105	104	104	103	103	106	108	106	105	110	111	111	104	98	91
1000	96	100	101	104	103	103	101	101	103	108	107	105	104	109	111	109	103	96	89
1250	94	98	99	102	103	102	101	99	102	108	108	104	102	108	109	109	102	96	89
1600	92	97	98	102	102	102	100	99	102	106	108	102	100	106	108	108	101	94	88
2000	90	96	96	100	100	101	99	97	101	106	108	101	100	106	107	107	100	93	87
2500	88	94	95	98	98	100	98	97	100	104	106	100	97	104	105	104	98	91	84
3150	86	92	93	97	97	98	96	94	98	103	106	100	97	103	104	103	96	90	83
4000	85	91	92	97	96	99	96	94	98	104	106	100	97	103	105	104	97	90	84
5000	84	90	91	95	95	96	94	92	97	102	104	99	95	101	103	102	95	89	82
6300	81	87	88	91	91	93	92	90	94	100	102	96	93	99	101	99	92	86	79
8000	78	84	86	90	91	92	90	89	93	98	99	94	91	98	100	98	91	85	78
10000	74	81	82	86	87	88	87	85	89	95	96	92	89	96	98	95	89	82	75
OVERALL	110	112	113	115	114	113	111	110	112	117	119	116	116	124	125	124	117	111	104

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY																			
	TEMP = 59 F																			
A-7E AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. TF-41	DELTA N = 3.0 DB																			
GROUND RUNUP	AIRCRAFT CODE 133																			
	OPERATION CODE 01006																			
	PROFILE VERSION A																			
	04 NOV 75																			
	PAGE 04																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-004																				
RUN 04																				
AIRCRAFT CODE 133																				
OPERATION CODE 01006																				
PROFILE VERSION A																				
04 NOV 75																				
PAGE 04																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	120.8	123.3	124.3	126.1	125.7	126.3	124.5	123.4	126.3	131.3	133.4	126.0	127.3	134.0	135.6	134.5	127.8	121.1	114.5	
250	118.7	121.2	122.1	123.9	123.5	124.1	122.2	121.2	124.0	129.0	131.1	126.8	125.1	131.8	133.3	132.3	125.7	119.0	112.3	
315	116.5	119.0	119.9	121.6	121.2	121.8	120.0	118.9	121.7	126.7	128.7	124.5	122.9	129.6	131.0	130.2	123.5	116.8	110.1	
400	114.3	116.8	117.7	119.3	118.9	119.4	117.6	116.5	119.4	124.2	126.3	122.1	120.6	127.3	128.8	127.9	121.3	114.6	107.8	
500	112.1	114.5	115.4	117.0	116.5	117.0	115.1	114.1	116.9	121.6	123.8	119.6	118.3	125.0	126.5	125.6	119.0	112.3	105.5	
630	109.8	112.1	113.1	114.6	114.0	114.4	112.6	111.5	114.3	119.1	121.2	117.0	115.9	122.6	124.1	123.3	116.6	109.9	103.1	
800	107.4	109.7	110.6	112.1	111.4	111.7	109.9	108.8	111.6	116.4	118.5	114.2	113.4	120.1	121.6	120.8	114.1	107.4	100.6	
1000	104.9	107.2	108.1	109.6	108.6	108.9	107.0	106.0	108.8	113.6	115.8	111.4	110.8	117.6	119.0	118.2	111.5	104.7	97.9	
1250	102.3	104.5	105.5	106.8	105.8	105.9	104.0	103.0	105.8	110.6	112.8	108.3	108.0	114.8	116.2	115.4	108.7	101.9	95.1	
1500	99.6	101.8	102.7	104.0	102.8	102.8	100.9	99.7	102.5	107.4	109.6	105.4	105.2	111.9	113.3	112.6	105.8	99.0	92.2	
2000	96.8	98.9	99.8	101.0	99.7	99.5	97.6	96.5	99.1	104.0	106.1	102.2	102.1	108.9	110.3	109.5	102.7	96.0	89.1	
2500	93.1	95.2	96.2	97.8	96.4	96.0	94.1	93.1	95.4	100.2	102.3	98.8	98.4	105.1	106.8	105.7	98.9	92.1	85.3	
3150	89.0	91.1	92.1	94.1	92.9	92.4	90.5	89.5	91.4	96.1	98.3	95.1	94.6	100.9	102.7	101.7	94.9	88.0	81.2	
4000	84.4	86.9	87.9	90.0	88.8	88.2	86.5	85.5	87.1	91.7	93.8	90.9	90.3	96.6	98.3	97.3	90.5	83.6	76.8	
5000	79.5	82.3	83.3	85.4	84.2	83.6	82.1	81.1	82.6	87.0	88.9	86.2	85.6	91.9	93.5	92.5	85.7	78.9	72.0	
6300	74.7	77.4	78.4	80.5	79.3	78.7	77.2	76.3	77.7	82.1	83.7	81.3	80.7	87.0	88.6	87.6	80.8	73.9	67.0	
8000	70.9	73.5	74.4	76.4	75.1	74.3	72.7	71.8	73.2	77.3	79.1	77.1	76.7	83.0	84.8	83.7	76.9	70.0	63.0	
10000	66.8	69.3	70.3	72.0	70.6	69.7	67.9	67.0	68.3	72.5	74.5	72.6	72.4	78.9	80.7	79.6	72.7	65.7	58.7	
12500	62.2	64.7	65.7	67.3	65.6	64.7	62.6	61.6	62.8	67.4	69.4	67.4	67.8	74.4	76.3	75.1	68.2	61.1	53.9	
16000	57.2	59.6	60.6	62.2	60.1	59.0	56.9	55.5	56.7	61.7	64.1	62.4	62.3	69.6	71.5	70.3	63.2	56.0	48.6	
20000	51.7	53.8	54.9	56.4	54.2	52.5	50.4	49.1	50.0	55.6	58.2	56.7	57.2	64.2	66.2	64.9	57.7	50.3	42.0	
25000	45.7	47.2	48.4	49.8	47.5	45.3	42.3	40.9	42.5	48.9	51.7	50.4	51.0	58.3	60.2	58.9	51.5	43.4	34.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
DISTANCE (FEET)	AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
NOISE SOURCE/SUBJECT:	OPERATION:																		
A-7E AIRCRAFT	INTERMEDIATE POWER (MIL)																		
ENG. TF-41	94% RPM																		
GROUND RUNUP	SINGLE ENGINE																		
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-004																			
RUN 04																			
AIRCRAFT CODE 133																			
OPERATION CODE 01006																			
PROFILE VERSION A																			
04 NOV 75																			
PAGE E4																			
ANGLE (DEGREES)																			
200	121.8	124.0	125.1	126.1	125.7	126.3	124.5	123.4	126.3	131.3	133.4	129.0	127.3	134.0	135.6	134.5	127.0	121.1	114.5
250	119.6	121.8	123.0	123.9	123.5	124.1	122.2	121.2	124.0	129.0	131.1	126.8	125.1	131.8	133.3	132.3	125.7	119.0	112.3
315	117.5	119.6	120.8	121.6	121.2	121.8	120.0	118.9	121.7	126.7	128.7	124.5	122.9	129.6	131.3	130.2	123.5	116.8	110.1
400	115.3	117.4	118.6	119.3	118.9	119.4	117.6	116.5	119.4	124.2	126.3	122.1	120.6	127.3	128.8	127.9	121.3	114.6	107.8
500	113.0	115.1	116.3	117.0	116.5	117.0	115.1	114.1	116.9	121.6	123.8	119.6	118.3	125.0	126.5	125.6	119.0	112.3	105.5
630	110.7	112.8	113.9	114.6	114.0	114.4	112.6	111.5	114.3	119.1	121.2	117.0	115.9	122.6	124.1	123.3	116.6	109.9	103.1
800	108.4	110.4	111.5	112.1	111.4	111.7	109.9	108.8	111.6	116.4	118.5	114.2	113.4	120.1	121.6	120.8	114.1	107.4	100.6
1000	105.9	107.8	109.0	109.6	108.6	108.9	107.0	106.0	108.8	113.6	115.8	111.4	110.8	117.6	119.0	118.2	111.5	104.7	97.9
1250	103.3	105.2	106.3	106.8	105.8	105.9	104.0	103.0	105.8	110.6	112.8	108.3	107.6	114.4	116.2	115.4	108.7	101.9	95.1
1600	100.6	102.4	103.6	104.0	102.8	102.8	100.9	99.7	102.5	107.4	109.6	105.4	105.2	111.9	113.3	112.6	105.8	99.0	92.2
2000	97.8	99.5	100.7	101.0	99.7	99.5	97.8	96.5	99.1	104.0	106.1	102.2	102.1	108.9	110.3	109.5	102.7	96.0	89.1
2500	94.1	95.8	97.0	97.8	96.4	96.0	94.1	93.1	95.4	100.2	102.3	98.8	98.4	105.1	106.6	105.7	98.9	92.1	85.3
3150	90.0	91.8	92.9	94.1	92.9	92.4	90.5	89.5	91.4	96.1	98.3	95.1	94.6	100.9	102.7	101.7	94.9	88.0	81.2
4000	85.2	87.4	88.6	90.0	88.8	88.2	86.5	85.5	87.1	91.7	93.8	90.9	90.3	96.6	98.3	97.3	90.5	83.6	76.8
5000	80.1	82.7	83.8	85.4	84.2	83.6	82.1	81.1	82.6	87.0	88.9	86.2	85.6	91.9	93.5	92.5	85.7	78.9	72.0
6300	75.1	77.7	78.8	80.5	79.3	78.7	77.2	76.3	77.7	82.1	83.7	81.3	80.7	87.0	88.6	87.6	80.8	73.9	67.0
8000	71.1	73.6	74.6	76.4	75.1	74.3	72.7	71.8	73.2	77.3	79.3	77.1	76.7	83.0	84.8	83.7	76.9	70.0	63.0
10000	66.8	69.3	70.3	72.0	70.6	69.7	67.9	67.0	68.3	72.5	74.5	72.6	72.4	78.9	80.7	79.6	72.7	65.7	58.7
12500	62.2	64.7	65.7	67.3	65.6	64.7	62.6	61.6	62.8	67.4	69.4	67.7	67.8	74.4	76.3	75.1	68.2	61.1	53.9
16000	57.2	59.6	60.6	62.2	60.1	59.0	56.9	55.5	56.7	61.7	63.1	62.4	62.8	69.6	71.5	70.3	63.2	56.0	48.6
20000	51.7	53.8	54.9	56.4	54.2	52.5	50.4	49.1	50.0	55.6	58.2	56.7	57.2	64.2	66.2	64.9	57.7	50.3	42.0
25000	45.7	47.2	48.4	49.8	47.5	45.3	42.3	40.9	42.5	48.9	51.7	50.4	51.0	58.3	60.2	58.9	51.5	43.4	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (O9A)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: A-7E AIRCRAFT  
 ENG. TF-41  
 GROUND RUNUP

OPERATIONS: INTERMEDIATE POWER (MIL)  
 94% RPM  
 SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 09

IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-004  
 RUN 04  
 AIRCRAFT CODE 133  
 OPERATION CODE 01006  
 PROFILE VERSION A  
 04 NOV 75  
 PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	109.0	112.0	113.0	115.3	114.6	114.5	112.6	111.3	113.8	118.7	120.3	116.4	115.3	121.3	122.7	122.1	115.4	108.7	102.1
250	107.0	110.0	110.9	113.2	112.4	112.3	110.5	109.2	111.6	116.5	118.1	114.2	113.1	119.2	120.6	120.0	113.3	106.6	100.0
315	104.9	107.9	108.8	111.1	110.3	110.2	108.3	107.0	109.4	114.3	115.9	112.1	111.0	117.1	118.4	117.8	111.2	104.5	97.8
400	102.8	105.7	106.7	108.9	108.1	107.9	106.1	104.8	107.2	112.0	113.6	109.9	108.9	114.9	116.3	115.7	109.0	102.3	95.7
500	100.7	103.6	104.5	106.7	105.9	105.7	103.8	102.6	104.9	109.7	111.3	107.6	106.7	112.7	114.1	113.5	106.8	100.1	93.5
630	98.5	101.4	102.3	104.5	103.6	103.4	101.5	100.3	102.6	107.3	108.9	105.3	104.4	110.5	111.8	111.2	104.6	97.9	91.2
800	96.3	99.1	100.1	102.2	101.3	101.0	99.2	97.9	100.2	104.9	106.4	103.0	102.1	108.1	109.5	103.9	102.3	95.6	88.9
1000	94.1	96.8	97.8	99.9	99.0	98.6	96.7	95.5	97.7	102.4	103.9	100.5	99.8	105.8	107.1	106.6	99.9	93.2	86.6
1250	91.8	94.5	95.5	97.5	96.5	96.0	94.2	93.0	95.1	99.8	101.3	98.0	97.3	103.3	104.6	104.1	97.4	90.7	84.1
1600	89.4	92.1	93.1	95.0	94.0	93.4	91.6	90.4	92.4	97.1	98.5	95.5	94.8	100.7	102.0	101.5	94.8	88.2	81.5
2000	87.0	89.6	90.6	92.5	91.4	90.7	88.9	87.7	89.6	94.3	95.7	92.8	92.2	98.0	99.4	98.8	92.2	85.5	78.8
3150	84.0	86.6	87.7	89.6	88.5	87.9	86.1	84.9	86.6	91.3	92.6	89.9	89.3	95.1	96.4	95.8	89.2	82.5	75.8
4000	80.9	83.4	84.5	86.5	85.4	84.8	83.0	81.8	83.4	88.1	89.4	86.3	85.1	91.8	93.1	92.5	85.9	79.2	72.5
5000	76.9	79.8	80.9	83.0	81.9	81.3	79.5	78.4	79.9	84.5	85.7	83.2	82.5	88.1	89.4	88.9	82.2	75.5	68.9
6300	72.6	75.7	76.7	79.0	78.0	77.3	75.6	74.5	76.0	80.5	81.7	79.2	78.4	84.0	85.3	84.7	78.1	71.4	64.7
8000	68.2	71.3	72.4	74.6	73.6	73.0	71.3	70.2	71.7	76.2	77.2	74.9	74.1	79.7	81.0	80.4	73.7	67.0	60.4
10000	64.6	67.6	68.6	70.8	69.6	68.9	67.2	66.1	67.4	71.9	73.0	71.0	70.2	75.8	77.1	76.5	69.8	63.2	56.5
12500	60.6	63.5	64.5	66.5	65.3	64.4	62.7	61.6	62.7	67.2	68.4	66.6	66.0	71.6	73.0	72.3	65.6	59.0	52.3
16000	56.3	59.0	60.1	61.9	60.5	59.6	57.8	56.6	57.5	62.0	63.4	61.9	61.3	67.1	68.5	67.8	61.1	54.4	47.8
20000	51.6	54.1	55.2	56.8	55.2	54.1	52.3	51.0	51.8	56.4	58.0	56.6	56.3	62.1	63.5	62.8	56.2	49.5	42.8
25000	46.4	48.6	49.7	51.2	49.4	48.1	46.1	44.7	45.4	50.2	52.1	50.9	50.7	56.7	58.2	57.4	50.7	44.1	37.4
31500	40.5	42.5	43.6	44.8	42.8	41.3	39.2	37.8	38.4	43.4	45.6	44.5	44.6	50.8	52.3	51.5	44.8	38.2	31.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY:																		
	TEMP = 59 F																		
A-7E AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. TF-41	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 0.0 DB																		
	ANGLE (DEGREES)																		
(DISTANCE (FEET))	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	110.0	112.7	113.9	115.3	114.6	114.5	112.6	111.3	113.8	118.7	120.3	116.4	115.3	121.3	122.7	122.1	115.4	108.7	102.1
250	107.9	110.6	111.8	113.2	112.4	112.3	110.5	109.2	111.6	116.5	118.1	114.2	113.1	119.2	120.6	120.0	113.3	106.6	100.0
315	105.9	108.5	109.7	111.1	110.3	110.2	108.3	107.0	109.4	114.3	115.9	112.1	111.0	117.1	118.4	117.8	111.2	104.5	97.8
400	103.8	106.4	107.6	108.9	108.1	107.9	106.1	104.8	107.2	112.0	113.6	109.8	108.9	114.9	116.3	115.7	109.0	102.3	95.7
500	101.6	104.2	105.4	106.7	105.9	105.7	103.8	102.6	104.9	109.7	111.3	107.6	106.7	112.7	114.1	113.5	106.8	100.1	93.5
630	99.5	102.0	103.2	104.5	103.6	103.4	101.5	100.3	102.6	107.3	108.9	105.3	104.4	110.5	111.8	111.2	104.6	97.9	91.2
800	97.3	99.8	101.0	102.2	101.3	101.0	99.2	97.9	100.2	104.9	106.4	103.0	102.1	108.1	109.5	108.9	102.3	95.6	88.9
1000	95.1	97.5	98.7	99.9	99.0	98.6	96.7	95.5	97.7	102.4	103.9	100.5	99.8	105.8	107.1	106.6	99.9	93.2	86.6
1250	92.8	95.1	96.3	97.5	96.5	96.0	94.2	93.0	95.1	99.8	101.3	98.0	97.3	103.3	104.6	104.1	97.4	90.7	84.1
1600	90.4	92.7	93.9	95.0	94.0	93.4	91.6	90.4	92.4	97.1	98.5	95.5	94.8	100.7	102.0	101.5	94.8	88.2	81.5
2000	88.0	90.2	91.4	92.5	91.4	90.7	88.9	87.7	89.6	94.3	95.7	92.8	92.2	98.0	99.4	98.8	92.2	85.5	78.8
3150	81.6	84.1	85.3	86.5	85.4	84.8	83.0	81.8	83.4	88.1	89.4	86.4	86.1	91.8	93.1	92.5	85.9	79.2	72.5
4000	77.6	80.3	81.5	83.0	81.9	81.3	79.5	78.4	79.9	84.5	85.7	83.2	82.5	88.1	89.4	88.9	82.2	75.5	68.9
5000	73.2	76.1	77.3	79.0	78.0	77.3	75.6	74.5	76.4	80.6	81.7	79.2	78.4	84.0	85.3	84.7	78.1	71.4	64.7
6300	68.6	71.6	72.7	74.6	73.6	73.0	71.3	70.2	71.7	76.2	77.2	74.9	74.1	79.7	81.0	80.4	73.7	67.0	60.4
8000	64.8	67.7	68.8	70.8	69.6	68.9	67.2	66.1	67.4	71.9	73.0	71.0	70.2	75.8	77.1	76.5	69.8	63.2	56.5
10000	60.6	63.5	64.5	66.5	65.3	64.4	62.7	61.6	62.7	67.2	68.4	66.6	66.0	71.6	73.0	72.3	65.6	59.0	52.3
12500	56.3	59.0	60.1	61.9	60.5	59.6	57.8	56.6	57.5	62.0	63.4	61.9	61.3	67.1	68.5	67.8	61.1	54.4	47.8
16000	51.6	54.1	55.2	56.8	55.2	54.1	52.3	51.0	51.8	56.4	58.0	56.6	56.3	62.1	63.5	62.8	56.2	49.5	42.8
20000	46.4	48.6	49.7	51.2	49.4	48.1	46.1	44.7	45.4	50.2	52.1	50.9	50.7	56.7	58.2	57.4	50.7	44.1	37.4
25000	40.5	42.5	43.6	44.8	42.8	41.3	39.2	37.8	38.4	43.4	45.6	44.5	44.6	50.8	52.3	51.5	44.8	38.2	31.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: A-7E AIRCRAFT  
 ENG. TF-41  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-004  
 RUN 04  
 AIRCRAFT CODE 133  
 OPERATION CODE 01006  
 PROFILE VERSION A  
 04 NOV 75  
 PAGE J4  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB

ANGLE	A=AL										T=ALT													
	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140		
0																								
10																								
20																								
30																								
40																								
50																								
60																								
70																								
80																								
90																								
100																								
110																								
120																								
130																								
140																								
150																								
>160																								
>170																								
>180																								

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		) OMEGA 8.2																		
DISTANCE = 250 FEET		) TEST 74-004-012																		
NOISE SOURCE/SUBJECT:		) RUN 01																		
A-7E AIRCRAFT		) METEOROLOGY:																		
ENG. TF-41		) TEMP = 59 F																		
GROUND RUNUP		) BAR PRESS = 29.92 IN HG																		
		) PPROFILE VERSION A																		
		) REL HUMID = 70 %																		
		) 07 APR 76																		
		) DELTA N = 9.0 DB																		
		) PAGE C1																		
BAND CENTER		ANGLE (DEGREES)																		
FREQ (HZ)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	64	85	86	86	86	87	87	88	89	92	93	95	97	102	108	111	108	101	95	88
53	86	86	87	88	88	88	88	89	90	91	93	96	98	102	110	113	109	103	96	89
80	87	88	88	88	89	90	91	93	95	96	98	98	100	106	113	117	110	104	97	90
100	89	89	90	92	91	92	93	94	97	99	100	102	109	109	118	119	111	105	98	91
125	92	91	92	92	93	92	92	95	95	99	101	102	103	112	119	119	112	106	99	92
160	94	92	96	94	95	95	96	97	97	97	101	104	106	113	122	121	114	108	101	94
200	92	94	95	96	95	97	97	98	99	103	104	105	107	112	122	121	115	108	102	95
250	92	95	96	97	96	97	98	98	99	100	102	104	108	112	117	114	114	108	101	94
315	96	100	100	101	99	98	98	98	99	100	102	104	108	112	117	114	114	108	101	94
400	104	109	109	107	107	107	107	107	107	107	107	107	107	107	107	114	114	108	101	94
500	103	108	109	109	109	109	109	109	109	109	109	109	109	109	109	114	114	108	101	94
530	103	105	108	109	108	108	108	108	108	108	108	108	108	108	108	114	114	108	101	94
600	96	101	104	106	105	106	106	106	106	106	106	106	106	106	106	114	114	108	101	94
800	94	99	102	104	104	104	104	104	104	104	104	104	104	104	104	114	114	108	101	94
1000	91	96	100	102	103	102	102	101	101	101	102	102	104	110	112	114	100	94	87	80
1250	91	96	99	102	103	102	102	101	101	101	103	104	104	107	111	112	100	93	87	80
1600	88	93	96	100	101	100	100	100	100	100	102	102	104	105	109	110	97	90	84	77
2000	87	92	95	99	100	100	100	100	100	100	101	103	106	105	108	109	96	90	83	76
3150	87	91	94	97	99	99	99	100	99	100	101	102	105	104	106	108	96	90	83	76
4000	83	88	92	95	96	97	97	97	98	98	99	101	102	102	105	106	93	86	80	73
5000	82	87	91	94	95	96	96	96	96	97	99	100	101	101	104	105	92	85	79	72
6300	75	83	88	90	92	93	93	93	94	94	96	97	98	98	101	103	89	82	76	69
8000	75	80	84	87	88	90	90	90	92	93	94	95	96	96	98	101	86	80	73	66
10000	68	73	78	81	83	85	85	84	85	35	87	88	90	91	96	98	83	77	70	63
OVERALL	109	114	115	116	116	115	115	113	113	113	114	115	118	122	129	129	124	117	110	104

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNDB)										AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE										IDENTIFICATION:									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180											
200	119.4	123.7	125.5	126.6	127.2	127.2	126.9	126.6	127.4	126.4	129.5	132.1	133.4	138.0	138.6	131.3	124.7	118.0	111.3	) OMEGA 6.2										
250	117.3	121.6	123.3	124.5	125.0	125.0	124.6	124.4	125.2	126.2	127.3	129.8	131.2	135.9	136.6	129.2	122.6	115.9	109.2	) TEST 74-004-012										
315	115.1	119.4	121.2	122.3	122.8	122.7	122.3	122.1	122.9	123.9	125.0	127.5	129.0	133.7	134.4	127.1	120.4	113.8	107.1	) RUN 01										
400	112.9	117.3	119.0	120.1	120.5	120.3	120.0	119.8	120.5	121.5	122.6	125.2	126.7	131.4	132.1	125.0	118.3	111.6	104.9	) METEOROLOGY: ) TEMPERATURE = 59 F ) AIRCRAFT CODE 133										
500	110.7	115.0	116.7	117.8	118.1	117.9	117.5	117.3	118.0	119.0	120.1	122.7	124.3	129.0	129.6	122.7	115.0	109.3	102.6	) BAR PRESS = 29.92 IN HG ) OPERATION CODE 01031										
630	108.4	112.7	114.4	115.4	115.7	115.4	114.9	114.8	115.4	116.4	117.5	120.1	121.8	126.5	127.1	120.2	113.5	106.8	100.0	) REL HUMID = 70 % ) PROFILE VERSION A										
800	106.0	110.3	112.0	113.0	113.2	112.8	112.2	112.1	112.7	113.6	114.8	117.4	119.2	123.9	124.5	117.7	111.0	104.3	97.4	) DELTA N = 0.0 DB ) PAGE 01										
1000	103.5	107.9	109.5	110.4	110.6	110.2	109.4	109.3	109.8	110.8	111.9	114.6	116.4	121.1	121.9	115.2	108.5	101.7	94.8											
1250	100.9	105.3	106.9	107.7	107.9	107.4	106.4	106.2	106.7	107.7	108.8	111.5	113.4	118.1	119.0	112.2	105.5	98.7	91.8											
1600	98.2	102.6	104.2	105.0	105.1	104.5	103.2	102.9	103.4	104.4	105.5	108.2	110.1	114.9	115.9	109.4	102.6	95.8	88.9											
2000	95.4	99.8	101.3	102.0	102.2	101.5	100.1	99.3	99.8	101.0	101.9	104.6	106.7	111.8	112.6	106.4	99.6	92.7	85.8											
2500	91.7	96.2	97.9	98.8	98.9	98.2	96.7	95.6	96.0	97.3	98.0	100.6	103.0	108.0	109.2	102.6	95.7	88.8	81.9											
3150	87.6	92.3	94.1	95.0	95.1	94.7	93.1	91.7	91.9	93.2	93.8	96.2	99.0	103.9	105.2	98.2	91.4	84.5	77.6											
4000	83.4	88.1	90.0	91.0	91.0	90.5	88.9	87.4	87.4	88.6	89.3	91.6	94.6	99.5	100.9	93.4	86.5	79.6	72.7											
5000	78.7	83.6	85.4	86.4	86.4	86.0	84.3	82.6	82.5	83.7	84.3	86.7	90.1	94.9	96.3	88.6	81.7	74.8	67.7											
6300	73.9	79.8	80.6	81.6	81.6	81.1	79.3	77.7	77.3	78.4	79.0	81.7	85.2	90.0	91.5	83.6	76.7	69.7	62.7											
8000	70.1	75.0	76.8	77.5	77.4	77.0	75.1	73.3	72.8	73.1	73.9	77.5	80.8	85.9	87.3	80.0	73.0	66.0	58.8											
10000	66.0	70.9	72.6	73.3	73.2	72.5	70.5	68.7	67.9	68.5	69.1	73.2	76.4	81.6	83.0	76.1	69.1	61.9	54.6											
12500	61.5	66.5	68.1	68.7	68.5	67.5	65.5	63.6	62.6	63.6	64.3	68.5	71.8	77.3	78.6	71.9	64.8	57.5	49.9											
16000	56.5	61.5	63.1	63.6	63.4	62.0	60.0	57.9	56.7	58.3	58.9	63.4	66.9	72.5	73.9	67.4	60.1	52.6	44.6											
20000	51.0	55.9	57.6	57.9	57.5	55.8	53.7	51.7	50.6	52.4	53.1	57.7	61.4	67.0	68.7	62.4	54.8	47.0	38.2											
25000	44.5	49.5	51.1	51.4	51.2	49.1	46.5	44.0	43.5	45.6	46.3	51.5	55.4	61.7	63.0	56.9	49.1	40.4	31.1											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																						
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																						
NOISE SOURCE/SUBJECT	METEOROLOGY																					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
(FEET)	ANGLE (DEGREES)																					
200	123.2	124.6	126.3	126.6	127.2	127.7	126.9	126.6	127.4	128.4	129.5	132.1	133.4	138.0	138.8	131.3	124.7	118.0	111.3			
250	118.1	122.4	124.1	124.5	125.0	124.6	124.4	125.2	126.2	127.3	129.8	131.2	135.9	136.6	129.2	122.6	115.9	109.2				
315	115.9	120.3	122.0	122.3	122.8	123.2	122.3	122.1	122.9	123.9	125.0	127.5	129.0	133.7	134.4	127.1	120.4	113.6	107.1			
400	113.7	118.1	119.8	120.1	120.5	120.8	120.0	119.8	120.5	121.5	122.6	125.2	126.7	131.4	132.1	125.0	118.3	111.6	104.9			
500	111.5	115.9	117.5	117.8	118.1	118.4	117.5	117.3	118.0	119.0	120.1	122.7	124.3	129.0	129.6	122.7	116.0	109.3	102.6			
630	109.2	113.6	115.2	115.4	115.7	115.9	114.9	114.8	115.4	116.4	117.5	120.1	121.8	126.5	127.1	120.2	113.5	106.5	100.0			
800	106.8	111.2	112.8	113.0	113.2	113.3	112.2	112.1	112.7	113.6	114.8	117.4	119.2	123.9	124.5	117.7	111.0	104.3	97.4			
1000	104.3	108.7	110.3	110.4	110.6	110.7	109.4	109.3	109.8	110.8	111.9	114.6	116.4	121.1	121.9	115.2	108.5	101.7	94.8			
1250	101.8	106.2	107.7	107.7	107.9	107.9	106.4	106.2	106.7	107.7	108.8	111.5	113.4	118.1	119.0	112.2	105.5	98.7	91.8			
1600	99.0	103.5	105.0	105.0	105.1	105.0	103.2	102.9	103.4	104.4	105.5	109.2	110.1	114.9	115.9	109.4	102.6	95.8	88.9			
2000	96.2	100.7	102.1	102.0	102.2	102.0	100.1	99.3	99.8	101.0	101.9	104.6	106.7	111.8	112.6	106.4	99.6	92.7	85.8			
2500	92.5	97.0	98.7	98.8	98.9	98.7	96.7	95.6	96.0	97.3	98.0	100.6	103.0	108.0	109.2	102.6	95.7	88.8	81.9			
3150	88.4	93.1	94.9	95.0	95.1	95.2	93.1	91.7	91.9	93.2	93.8	96.2	99.0	103.9	105.2	98.2	91.4	84.5	77.6			
4000	84.0	88.8	90.6	91.0	91.0	91.0	88.9	87.4	87.4	88.6	89.3	91.6	94.6	99.5	100.9	93.4	86.5	79.6	72.7			
5000	79.2	84.1	85.9	86.4	86.4	86.4	84.3	82.6	82.5	83.7	84.3	86.7	90.1	94.9	96.3	88.6	81.7	74.8	67.7			
6300	74.2	79.1	80.9	81.6	81.6	81.3	79.3	77.7	77.3	78.4	79.0	81.7	85.2	90.0	91.5	83.6	76.7	69.7	62.7			
8000	70.3	75.2	76.9	77.5	77.4	77.1	75.1	73.3	72.8	73.1	73.9	77.5	80.8	85.9	87.3	80.0	73.3	66.0	58.8			
10000	66.0	70.9	72.6	73.3	73.2	72.5	70.5	68.7	67.9	68.5	69.1	73.2	76.4	81.6	83.0	76.1	69.1	61.9	54.6			
12500	61.5	66.5	68.1	68.7	68.5	67.5	65.5	63.6	62.6	63.0	64.3	68.5	71.8	77.3	78.6	71.9	64.8	57.5	49.9			
16000	56.5	61.5	63.1	63.6	63.4	62.0	60.0	57.9	56.7	58.3	58.9	63.4	66.9	72.5	73.9	67.4	60.1	52.6	44.6			
20000	51.0	55.9	57.6	57.9	57.7	55.8	53.7	51.7	50.6	52.4	53.1	57.7	61.4	67.4	68.7	62.4	54.8	47.0	38.2			
25000	44.5	49.5	51.1	51.4	51.2	49.1	46.5	44.0	43.6	45.6	46.3	51.5	55.4	61.7	63.0	56.9	49.1	40.4	31.1			

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.8	112.7	114.8	116.0	116.2	115.6	114.2	113.5	113.6	114.6	115.4	117.7	120.1	124.4	125.5	117.7	111.0	104.3	97.7
250	105.7	110.6	112.7	113.9	114.1	113.5	112.1	111.4	111.5	112.4	113.2	115.5	118.0	122.3	123.4	115.6	108.9	102.3	95.6
315	103.6	108.5	110.6	111.8	111.9	111.3	109.9	109.2	109.2	110.2	110.9	113.3	115.8	120.1	121.2	113.5	106.9	100.2	93.5
400	101.5	106.4	108.5	109.6	109.8	109.1	107.7	106.9	107.0	107.9	108.6	111.0	113.6	118.0	119.1	111.4	104.8	98.1	91.4
500	99.4	104.3	106.4	107.4	107.6	106.9	105.4	104.6	104.7	105.6	106.3	108.7	111.4	115.7	116.8	109.3	102.6	96.0	89.3
630	97.2	102.2	104.2	105.2	105.4	104.7	103.1	102.3	102.3	103.2	103.9	106.3	109.1	113.4	114.5	107.0	100.4	93.7	87.0
800	95.1	100.0	102.0	103.0	103.1	102.4	100.8	99.9	99.8	100.7	101.4	103.9	106.7	111.0	112.2	104.7	98.0	91.4	84.7
1000	92.8	97.8	99.7	100.7	100.7	100.0	98.3	97.4	97.3	98.1	98.8	101.3	104.3	108.6	109.7	102.3	95.6	89.0	82.3
1250	90.5	95.5	97.4	98.3	98.3	97.5	95.8	94.8	94.6	95.4	96.1	98.6	101.7	106.0	107.2	99.7	93.0	86.4	79.7
1600	88.2	93.1	95.0	95.9	95.9	95.1	93.2	92.1	91.9	92.6	93.3	95.9	99.1	103.3	104.5	97.0	90.3	83.7	77.0
2000	85.8	90.7	92.6	93.3	93.3	92.5	90.6	89.3	89.0	89.7	90.3	93.0	96.3	100.5	101.8	94.2	87.6	80.9	74.2
2500	82.8	87.8	89.8	90.6	90.5	89.6	87.7	86.4	85.9	86.6	87.1	89.9	93.3	97.4	98.8	91.0	84.3	77.6	71.0
3150	79.5	84.5	86.6	87.5	87.4	86.6	84.6	83.2	82.6	83.2	83.7	86.5	90.0	94.1	95.6	87.3	80.6	74.0	67.3
4000	75.8	80.8	83.0	83.9	83.8	83.1	81.1	79.6	79.0	79.5	80.0	82.7	86.4	90.4	92.1	83.2	76.6	69.9	63.2
5000	71.5	76.6	78.8	79.9	79.8	79.0	77.0	75.6	74.9	75.3	75.9	78.6	82.4	86.3	88.1	78.8	72.1	65.5	58.8
6300	67.1	72.2	74.5	75.6	75.4	74.7	72.7	71.3	70.5	70.9	71.4	74.1	78.1	82.0	83.8	74.2	67.6	60.9	54.2
8000	63.5	68.6	70.8	71.8	71.6	70.8	68.7	67.1	66.2	66.5	67.1	70.1	74.0	78.0	79.8	70.7	64.1	57.4	50.7
10000	59.7	64.7	66.8	67.6	67.4	66.6	64.4	62.6	61.5	61.7	62.4	65.7	69.5	73.7	75.4	67.0	60.3	53.7	47.0
12500	55.4	60.4	62.4	63.1	62.9	61.9	59.6	57.7	56.4	56.6	57.4	61.0	64.6	69.1	70.7	63.0	56.3	49.6	43.0
16000	50.7	55.7	57.6	58.1	57.8	56.8	54.4	52.3	50.8	51.1	52.0	55.9	59.4	64.0	65.5	58.6	51.9	45.2	38.6
20000	45.5	50.4	52.1	52.5	52.2	51.0	48.5	46.2	44.8	45.3	46.3	50.4	53.7	58.7	59.9	53.8	47.2	40.5	33.8
25000	39.6	44.5	46.1	46.2	45.9	44.5	41.9	39.6	38.4	39.1	40.1	44.4	47.7	53.2	54.0	48.7	42.0	35.4	28.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT A-7E AIRCRAFT ENG. TF-41 GROUND RUNUP	OPERATION: MAX POWER SINGLE ENGINE																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
DISTANCE (FEET)	ANGLE (DEGREES)																		
200	106.6	113.5	115.6	116.0	116.2	116.1	114.2	113.5	113.0	114.6	115.4	117.7	120.1	124.4	125.5	117.7	111.0	104.3	97.7
250	106.5	111.5	113.5	113.9	114.1	114.0	112.1	111.4	111.5	112.4	113.2	115.5	118.0	122.3	123.4	115.6	108.9	102.3	95.6
315	104.4	109.4	111.4	111.6	111.9	111.8	109.9	109.2	109.2	110.2	110.9	113.3	115.8	120.1	121.2	113.5	106.9	100.2	93.5
400	102.3	107.3	109.3	109.6	109.8	109.7	107.7	106.9	107.0	107.9	108.6	111.0	113.6	118.0	119.1	111.4	104.8	98.1	91.4
500	100.2	105.2	107.2	107.4	107.6	107.4	105.4	104.6	104.7	105.6	106.3	108.7	111.4	115.7	116.8	109.3	102.6	96.0	89.3
630	98.1	103.0	105.0	105.2	105.4	105.2	103.1	102.3	102.3	103.2	103.9	106.3	109.1	113.4	114.5	107.0	100.4	93.7	87.5
800	95.9	100.8	102.8	103.0	103.1	102.9	100.8	99.9	99.8	100.7	101.4	103.9	106.7	111.0	112.2	104.7	98.0	91.4	84.7
1000	93.7	98.6	100.5	100.7	100.7	100.5	98.3	97.4	97.3	98.1	98.8	101.3	104.3	108.6	109.7	102.3	95.6	89.0	82.3
1250	91.4	96.3	98.2	98.3	98.3	98.1	95.8	94.8	94.6	95.4	96.1	98.6	101.7	106.0	107.2	99.7	93.0	86.4	79.7
1600	89.0	94.0	95.8	95.9	95.9	95.6	93.2	92.1	91.9	92.6	93.3	95.9	99.1	103.3	104.5	97.0	90.3	83.7	77.0
2000	86.6	91.5	93.4	93.3	93.3	93.0	90.6	89.3	89.0	89.7	90.3	93.0	96.3	100.5	101.8	94.2	87.6	80.9	74.2
2500	83.7	88.6	90.6	90.6	90.5	90.2	87.7	86.4	85.9	86.6	87.1	89.9	93.3	97.4	98.8	91.0	84.3	77.6	71.0
3150	80.3	85.3	87.4	87.5	87.4	87.1	84.6	83.2	82.6	83.2	83.7	86.5	90.0	94.1	95.6	87.3	80.6	74.0	67.3
4000	76.4	81.4	83.6	83.6	83.6	83.5	81.1	79.6	79.0	79.5	80.0	82.7	86.4	90.4	92.1	83.2	76.6	69.9	63.2
5000	72.0	77.1	79.3	79.3	79.3	79.4	77.0	75.6	74.9	75.3	75.9	78.6	82.4	86.3	88.1	78.8	72.1	65.5	58.8
6300	67.4	72.5	74.8	75.6	75.4	74.9	72.7	71.3	70.5	70.9	71.4	74.1	78.1	82.0	83.8	74.2	67.6	60.9	54.2
8000	63.7	68.7	71.0	71.8	71.6	70.9	68.7	67.1	66.2	66.5	67.1	70.1	74.0	78.0	79.9	70.7	64.1	57.4	50.7
10000	59.7	64.7	66.8	67.6	67.4	66.6	64.4	62.6	61.5	61.7	62.4	65.7	69.5	73.7	75.4	67.0	60.3	53.7	47.0
12500	55.4	60.4	62.4	63.1	62.9	61.9	59.6	57.7	56.4	56.6	57.4	61.0	64.6	69.1	70.7	63.0	56.3	49.6	43.0
16000	50.7	55.7	57.6	58.1	57.8	56.8	54.4	52.3	50.8	51.1	52.0	55.9	59.4	64.0	65.5	58.6	51.9	45.2	38.6
20000	45.5	50.4	52.1	52.5	52.2	51.0	48.5	46.2	44.8	45.3	46.3	50.4	53.7	58.7	59.9	53.8	47.2	40.5	33.8
25000	39.6	44.5	46.1	46.2	45.9	44.5	41.9	39.6	38.4	39.1	40.1	44.4	47.7	53.2	54.0	48.7	42.0	35.4	28.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( DISTANCE = 250 FEET  
 ( NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 133  
 ( A-7E AIRCRAFT ( MAX POWER ( TEMP = 59 F ) OPERATION CODE 01031  
 ( ENG. TF-41 ( SINGLE ENGINE ( BAR PRESS = 29.92 IN HG ) PROFILE VERSION A  
 ( GROUND RUNUP ( ( REL HUMID = 70 % ) 07 APR 76  
 ( ( ( DELTA N = 0.0 DB ) PAGE J1  
 (

	NOISE LEVEL IN PND8 OR D9A											
	40	50	60	70	80	90	100	110	120	130	140	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
>160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



	20	30	40	50	60	70	80	90	MEAN	SD
50									63.7	2.8
63									61.8	4.1
80									64.8	3.1
100									73.3	2.1
125									75.0	2.2
160									71.6	1.7
200									64.6	2.7
250									70.0	3.0
315									67.6	1.8
400									67.6	2.1
500									66.1	2.3
630									64.7	1.2
800									65.2	1.1
1000									64.6	1.1
1250									65.3	1.4
1600									65.3	1.3
2000									70.3	3.0
2500									87.0	2.3
3150									74.1	3.5
4000									67.4	2.6
5000									69.3	2.6
6300									65.7	4.4
8000									61.0	0.0
10000									55.0	0.0

AIRSPEED = 150 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 8  
 A-10A APPROACH POWER 5225 NF 638 C ITT  
 TEMP = 59 F PNL T = 107.8 PND8  
 REL HUMID = 70 % PNL = 102.8 PND8  
 IDENT: 6.6-037-105-180877 ALT = 93.8 DBA  
 AL = 89.9 DBA

TABLE 1		SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																	IDENTIFICATION:						
AIP-TO-GROUND PROPAGATION																			OMEGA 6.6						
AIRCRAFT:		METEOROLOGY:																	A/C CODE: 037						
( OPERATION: )		TEMP																	OPS CODE: 105						
( APPROACH POWER )		REL HUMID = 70 %																	PROFILE VER: B						
( 5225 NF )		DELTA N = 0.0 DB																	18 AUG 77						
( 638 C IIT )																			PAGE H1						
( AIRSPEED = 150 KNOTS )																									
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	76	79	87	89	86	79	84	82	82	81	79	80	80	81	81	87	104	93	88	91	90	90	91	
250	76	74	77	85	87	84	77	82	80	80	79	77	78	78	79	79	85	102	90	85	88	87	87	88	
315	74	72	75	83	85	82	75	80	78	76	77	75	76	76	77	77	82	100	88	83	86	85	84	84	
400	72	70	73	81	83	80	73	78	76	76	75	73	74	74	74	75	80	97	85	80	83	82	80	80	
500	70	68	71	79	81	78	71	76	74	74	73	71	72	71	72	73	78	95	83	77	80	78	76	75	
630	68	66	69	77	79	76	69	74	72	72	70	69	70	69	70	70	75	93	80	74	77	75	72	69	
800	66	64	67	75	77	74	67	72	70	70	66	67	67	67	68	68	73	90	77	71	73	70	67	63	
1000	64	62	65	73	75	72	65	70	68	68	66	65	65	65	65	65	70	87	74	67	69	66	61	55	
1250	62	60	63	71	73	70	63	68	65	65	64	62	63	62	63	63	67	84	71	63	65	60	54	46	
1600	60	58	61	69	71	68	60	66	63	63	62	60	61	60	60	60	64	81	67	59	60	54	46	35	
2000	58	56	59	67	69	65	58	64	61	61	59	58	58	57	57	57	61	77	63	54	54	47	36	22	
2500	56	54	57	65	67	63	56	61	59	59	57	55	55	54	54	54	58	73	58	48	47	38	25	5	
3150	54	52	55	63	65	61	54	59	57	56	55	53	53	51	51	50	54	68	52	41	40	28	10		
4000	52	50	52	61	62	59	52	57	54	54	52	50	50	48	48	46	49	63	46	32	30	15			
5000	49	47	50	59	60	57	49	54	52	51	49	47	46	45	44	44	44	57	38	22	19				
6300	47	45	48	57	58	54	47	52	49	48	46	44	43	41	39	38	38	49	29	10					
8000	45	43	46	54	56	52	45	49	46	46	43	40	39	36	34	30	31	41	18						
10000	43	41	44	52	53	50	42	47	43	42	39	36	35	31	28	24	22	30	4						
12500	41	39	42	50	51	47	39	44	40	39	36	32	29	25	22	15	12	18							
16000	39	36	39	47	48	44	36	41	37	35	31	27	24	18	13	5									
20000	36	34	37	45	46	41	33	37	33	30	26	21	17	10											
25000	34	32	34	42	43	38	30	33	29	25	20	14	9	1											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-10A	106.5	111.4	120.6	125.6	102.2	106.1	110.6	OMEGA	6.6
	104.2	109.2	118.4	123.3	100.9	104.8	109.3		
	101.9	106.9	116.0	121.0	99.6	103.5	108.0	A/C CODE: 037	
	99.5	104.5	113.6	118.6	99.2	102.1	106.6	OPS CODE: 105	
	97.1	102.0	111.1	116.1	96.8	100.6	105.1	PROFILE VER: 9	
	94.5	99.4	108.5	113.5	95.2	99.1	103.4	18 AUG 77	
	91.8	96.7	105.7	110.7	93.5	97.4	101.7	PAGE 11	
	88.9	93.8	102.8	107.8	91.6	95.5	99.7		
	85.8	90.8	99.7	104.6	89.5	93.4	97.6		
	82.5	87.4	96.3	101.3	87.2	91.1	95.3		
	78.8	83.8	92.7	97.6	84.5	88.4	92.6		
	74.8	79.8	88.7	93.6	81.5	85.4	89.6		
	70.4	75.3	84.3	89.3	78.1	81.9	86.3		
	65.4	69.4	79.5	83.5	74.1	77.2	81.7		
	60.1	63.1	74.2	77.1	69.8	72.2	76.6		
	54.9	56.8	68.3	70.2	65.6	67.1	70.9		
	50.2	51.2	61.8	62.8	61.9	62.7	64.6		
	46.4	46.4	55.7	55.7	59.1	59.1	58.8		
	42.9	42.9	51.2	51.2	56.6	56.6	55.3		
	39.4	39.4	46.0	46.0	54.1	54.1	51.0		
	35.9	35.9	41.0	41.0	51.6	51.6	47.1		
	32.2	32.2	35.6	35.6	48.9	48.9	42.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----A-----P-----)
( A-10A APPROACH POWER
( 5225 NF 638 C ITT
( AIRSPEED = 150 KNOTS
315 ( TEMP = 59 F REL HUMID = 70 %
( DELTA N = 0.0 DB
( NO. OF RECORDS: 8
( IDENT: 6.6-037-105-180877-B
(
S 630 ( . . . . . A + . . . . . P
L 800 ( . . . . . A + . . . . . P
N 1000 ( . . . . . A + . . . . . P
D 1250 ( . . . . . A + . . . . . P
I 1600 ( . . . . . A + . . . . . P
S 2000 ( . . . . . A + . . . . . P
T 2500 ( . . . . . A + . . . . . P
A 3150 ( . . . . . A + . . . . . P
N 4000 ( . . . . . A + . . . . . P
F 5000 ( . . . . . A + . . . . . P
E 6300 ( . . . . . A + . . . . . P
T 8000 ( . . . . . A + . . . . . P
10000 ( . . . . . X . . . . . AIR TO GROUND
12500 ( . . . . . X . . . . . P = PNLT
16000 ( . . . . . . . . . . * = PNL
20000 ( . . . . . . . . . . + = ALT
25000 ( . . . . . . . . . . A = AL
(-----A-----P-----)

```

50 60 70 80 90 100 110 120 130  
NOISE LEVEL IN DB





TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																	IDENTIFICATION:							
GROUND-TO-GROUND PROPAGATION																	OMEGA 6.6							
AIRCRAFT:																	A/C CODE: 037							
OPERATION:																	OPS CODE: 105							
APPROACH POWER = 59 F																	PROFILE VER: B							
5225 NF 638 C IIT																	18 AUG 77							
AIRSPEED = 150 KNOTS																	PAGE L1							
DELTA N = 0.0 DB																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	71	74	82	84	81	74	79	77	77	76	74	75	75	76	76	82	99	88	83	86	85	85	86
250	71	69	72	80	82	79	72	77	75	75	74	72	73	73	74	74	80	97	85	80	83	82	82	83
315	69	67	70	78	80	77	70	75	73	73	72	70	71	71	72	72	77	95	83	78	81	80	79	79
400	67	65	68	76	78	75	68	73	71	71	70	68	69	69	69	70	75	92	80	75	78	77	75	75
500	65	63	66	74	76	72	65	71	69	69	68	66	67	66	67	68	73	90	78	72	75	73	71	70
630	63	61	64	72	73	70	63	68	67	67	65	64	65	64	65	65	70	88	75	69	72	70	67	64
800	61	59	62	70	71	67	60	66	65	65	63	62	62	62	63	63	68	85	72	66	68	65	62	58
1000	59	57	60	67	68	64	57	63	62	63	61	60	60	60	60	60	65	82	69	62	64	61	56	50
1250	57	55	57	64	65	61	54	60	59	60	59	57	58	57	58	58	62	79	66	58	60	55	49	41
1600	55	52	53	60	61	57	50	56	56	58	57	55	56	55	55	55	59	76	62	54	55	49	41	30
2000	52	48	50	57	57	53	46	52	53	56	54	53	53	52	52	52	56	72	58	49	49	42	31	17
2500	48	44	46	52	53	49	42	48	49	52	52	50	50	49	49	49	53	68	53	43	42	33	20	0
3150	44	40	41	48	48	44	37	43	44	48	49	48	48	46	46	45	49	63	47	36	35	23	5	
4000	40	35	36	42	42	39	31	37	39	43	45	44	45	43	43	41	44	58	41	27	25	10		
5000	34	30	31	37	38	34	26	32	33	38	41	40	41	40	39	37	39	52	33	17	14			
6300	29	25	26	33	33	29	22	27	27	32	36	36	37	36	34	31	33	44	24	5				
8000	27	23	24	30	31	27	19	24	24	30	33	32	33	31	29	25	26	36	13					
10000	25	21	22	28	28	24	16	22	21	26	29	28	29	26	23	19	17	25						
12500	23	19	20	26	26	21	14	19	18	23	26	24	23	20	17	10	7	13						
16000	21	16	17	23	23	19	11	16	15	19	21	19	18	13	8	0								
20000	18	14	15	21	21	16	8	12	11	14	16	13	11	5										
25000	16	12	12	18	18	13	4	8	7	9	10	6	3											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLI** (PNDB)	SEL (DB)	SELI** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-10A	101.5	106.4	115.6	120.6	97.2	101.1	105.6	OMEGA	6.6
	99.2	104.2	113.4	118.3	95.9	99.8	104.3		
	96.9	101.9	111.0	116.0	94.6	98.5	103.0	A/C CODE:	037
	94.5	99.5	108.6	113.6	93.2	97.1	101.6	OPS CODE:	105
	92.1	97.0	106.1	111.0	91.8	95.6	100.0	PROFILE VER:	B
	89.5	94.4	103.4	108.4	90.2	94.1	98.4	18 AUG 77	
	86.8	91.7	100.6	105.6	88.5	92.4	96.6	PAGE	M1
	83.9	88.8	97.6	102.6	86.6	90.5	94.6		
	80.8	85.8	94.4	99.3	84.5	88.4	92.3		
	77.5	82.4	90.9	95.9	82.2	86.1	89.8		
	73.8	78.8	87.1	92.0	79.5	83.4	87.0		
	69.7	74.7	82.9	87.8	76.4	80.3	83.8		
	65.2	70.1	78.1	83.1	72.9	76.8	80.1		
	60.0	64.0	72.7	76.7	68.7	71.8	74.9		
	54.2	57.1	66.7	69.6	63.9	66.2	69.0		
	47.6	49.6	59.5	61.4	58.3	59.9	62.1		
	41.0	41.9	51.5	52.5	52.7	53.4	54.3		
	34.7	34.7	41.8	41.8	47.4	47.4	44.8		
	29.2	29.2	30.5	30.5	42.9	42.9	34.6		
	23.8	23.8	19.8	19.8	38.5	38.5	24.9		
	18.3	18.3	6.9	6.9	34.0	34.0	12.9		
	12.5	12.5			29.2	29.2	1.0		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



```

200 (-----S---T---E-----)
    ( A-10A APPROACH POWER
250 ( . 5225 NF 638 C ITT . S T E .
    ( AIRSPEED = 150 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . S T . E .
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 8 . S T . E .
    ( IDENT: 6.6-037-105-100877-B
500 ( . . . . . S T . E . . . . .
    (
S 630 ( . . . . . S T E . . . . .
L 800 ( . . . . . S T E . . . . .
A 1000 ( . . . . . S T . E . . . . .
N 1250 ( . . . . . S T E . . . . .
T 1600 ( . . . . . S T E . . . . .
D 2000 ( . . . . . S T . E . . . . .
I 2500 ( . . . . . S T E . . . . .
S 3150 ( . . . . . S T E . . . . .
T 4000 ( . . . . . S T E . . . . .
A 5000 ( . . . . . S T . E . . . . .
N 6300 ( . . . . . S T E . . . . .
C 8000 ( . . . . . XE . . . . .
E 10000 ( . . . . . E.X. . . . . GROUND TO GROUND
I 12500 ( . . . . . X . . . . . E = EPNL
N 16000 ( . . . . . X. . . . . T = SELT
T 20000 ( . . . . . X . . . . . S = SEL
25000 (X-----)
30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

```



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) A/C CODE: 037  
 ( ( MAX RATED THRUST ) TEMP = 59 F ) OPS CODE: 111  
 ( ( 6700 NF 826 C ITT ) REL HUMID = 70 % ) PROFILE VER: B  
 ( ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) 18 AUG 77  
 ( ( ) ) PAGE H2

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	87	81	77	88	95	97	94	94	100	98	100	98	98	98	98	100	100	99	101	99	94	88	85	86
250	85	79	75	86	93	95	92	92	98	96	98	96	95	96	96	98	98	97	99	97	91	85	82	82
315	83	77	73	84	91	93	90	90	95	94	95	94	93	94	94	95	95	94	97	94	88	82	79	78
400	81	75	71	82	89	91	88	88	93	92	93	92	91	92	92	93	93	92	94	91	86	79	75	73
500	79	73	69	80	87	89	86	86	91	90	91	90	89	90	90	91	91	90	92	89	83	75	71	68
630	77	71	67	78	85	87	84	84	89	88	89	88	87	87	88	89	88	87	89	85	79	71	66	62
800	75	69	65	76	83	85	82	82	87	85	87	85	85	85	85	86	86	84	86	82	75	67	61	55
1000	73	67	63	74	81	83	80	80	85	83	85	83	82	83	83	84	83	81	82	78	71	62	54	47
1250	71	65	61	72	79	81	78	78	83	81	83	81	80	80	80	81	80	78	79	74	67	56	47	36
1600	69	63	59	70	77	78	75	76	81	79	80	79	78	76	77	78	77	75	75	69	61	49	38	24
2000	67	61	57	68	75	76	73	74	79	77	78	76	75	75	75	75	73	71	70	63	55	41	27	9
2500	65	59	55	65	73	74	71	71	76	74	76	74	72	72	71	71	70	66	65	57	48	32	14	
3150	63	57	53	63	71	72	69	69	74	72	73	71	69	69	68	68	65	61	59	49	39	20		
4000	61	55	51	61	69	70	67	67	72	69	70	68	66	66	64	63	60	55	52	40	28			
5000	59	52	49	59	66	68	64	64	69	67	67	65	63	62	60	58	55	49	43	29	15			
6300	57	50	46	57	64	65	62	62	66	64	64	62	59	58	55	53	48	41	33	15				
8000	55	48	44	55	62	63	59	59	64	61	61	58	55	53	50	46	40	31	21					
10000	52	46	42	52	59	60	57	56	60	57	54	50	48	43	39	31	19	6						
12500	50	44	40	50	57	58	54	53	57	54	49	45	41	36	29	20	5							
16000	48	41	37	47	54	55	51	50	53	49	48	43	38	34	27	18	6							
20000	46	39	35	45	51	52	47	46	49	45	43	37	31	25	16	5								
25000	43	36	32	42	48	48	44	42	45	39	36	30	22	14	3									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-10A	110.0	110.6	124.0	124.6	107.3	108.7	112.3	OMEGA	6.6
	107.0	108.4	121.7	122.3	106.1	107.5	111.0		
	105.5	106.1	119.3	119.9	104.8	106.3	109.7		
	103.2	103.8	116.9	117.5	103.5	104.9	106.2		
	100.8	101.4	114.3	114.9	102.1	103.5	106.7		
	98.4	98.9	111.7	112.3	100.6	102.1	105.0		
	95.8	96.4	108.9	109.4	99.0	100.5	103.2		
	93.2	93.7	105.9	106.5	97.4	98.9	101.2		
	90.4	91.0	102.7	103.3	95.7	97.1	99.0		
	87.6	88.1	99.2	99.8	93.8	95.3	96.6		
	84.6	85.2	95.6	96.2	91.8	93.3	94.0		
	81.5	82.1	92.1	92.7	89.8	91.3	91.4		
	78.4	78.9	88.3	88.9	87.6	89.1	88.7		
	75.1	75.6	84.8	85.2	85.3	86.5	85.8		
	71.7	72.0	81.2	81.5	82.9	83.8	83.0		
	68.2	68.4	77.5	77.8	80.4	81.0	80.0		
	64.5	64.6	73.8	73.9	77.8	78.0	76.9		
	60.7	60.7	69.8	69.8	74.9	74.9	73.7		
	56.7	56.7	65.6	65.6	71.9	71.9	70.4		
	52.4	52.4	61.0	61.0	68.7	68.7	66.8		
	47.9	47.9	56.2	56.2	65.2	65.2	63.0		
	43.1	43.1	50.7	50.7	61.4	61.4	58.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----A+-----*P-----)
( A-10A MAX RATED THRUST
( 6700 NF 826 C ITT X . . . . . X
( AIRSPEED = 350 KNOTS
( TEMP = 59 F REL HUMID = 70 % . . . . . X *P
( DELTA N = 0.0 DB
( NO. OF RECORDS: 4 . . . . . A+ . . . . . X
( IDENT: 6.6-037-111-180677-B
( . . . . . X . . . . . *P
(
S 630 ( . . . . . A+ . . . . . X
L ( . . . . .
A 800 ( . . . . . X . . . . . X
N ( . . . . .
T 1000 ( . . . . . A+ . . . . . X
(
D 1250 ( . . . . . A+ . . . . . X
I ( . . . . .
S 1600 ( . . . . . X . . . . . *P
T ( . . . . .
A 2000 ( . . . . . X . . . . . X
N ( . . . . .
C 2500 ( . . . . . X . . . . . *P
E ( . . . . . A+ . . . . .
3150 ( . . . . . *P
(
I 4000 ( . . . . . A+ . . . . . X
N ( . . . . .
F 5000 ( . . . . . X . . . . . *P
E ( . . . . .
E 6300 ( . . . . . X . . . . . X
T ( . . . . .
8000 ( . . . . . X . . . . . X
(
10000 ( . . . . . X . . . . . X
(
12500 ( . . . . . X . . . . . X AIR TO GROUND
( P = PNL
( . . . . . X . . . . . *P
( . . . . . X . . . . . ALT
( . . . . . X . . . . . A = AL
(
25000 (---X---50-----60-----70-----80-----90-----100-----110-----120-----130
NOISE LEVEL IN DB

```



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200 (-----S-T-E-----)
( A-10A MAX RATED THRUST
( 6700 NF 826 C ITT . . . . . S T .E . .
( AIRSPEED = 350 KNOTS . . . . .
( TEMP = 59 F REL HUMID = 70 % . . . . . S T E . .
( DELTA N = 0.0 DB . . . . . S T E . .
( NO. OF RECORDS: 4 . . . . . S T .E. . . . .
( IDENT: 6.6-037-111-100677-B . . . . .
S 630 ( . . . . . . . . . . . . . . . . S T E . .
L 800 ( . . . . . . . . . . . . . . . . S.T E . .
N 1000 ( . . . . . . . . . . . . . . . . S.T.E. . . . .
D 1250 ( . . . . . . . . . . . . . . . . S T E. . . . .
I 1600 ( . . . . . . . . . . . . . . . . S T E . . . . .
T 2000 ( . . . . . . . . . . . . . . . . S T E . . . . .
N 2500 ( . . . . . . . . . . . . . . . . S X . . . . .
E 3150 ( . . . . . . . . . . . . . . . . S X. . . . .
I 4000 ( . . . . . . . . . . . . . . . . S E T . . . . .
F 5000 ( . . . . . . . . . . . . . . . . X T . . . . .
E 6300 ( . . . . . . . . . . . . . . . . X T . . . . .
T 8000 ( . . . . . . . . . . . . . . . . E X . . . . .
10000 ( . . . . . . . . . . . . . . . . E X. . . . .
12500 ( . . . . . . . . . . . . . . . . E X . . . . .
16000 ( . . . . . . . . . . . . . . . . E X. . . . .
20000 ( . . . . . . . . . . . . . . . . E.X. . . . .
25000 (-----E-X-----)
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATIONS ) METEOROLOGY: A/C CODE: 037  
 ( MAX RATED THRUST ) TEMP = 59 F OPS CODE: 111  
 ( 6700 NF 826 C ITT ) REL HUMID = 70 % PROFILE VER: B  
 ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB 18 AUG 77  
 OMEGA 6.6 PAGE L2

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	76	72	83	90	92	89	89	95	93	95	93	93	93	93	95	95	94	96	94	89	83	80	81
250	80	74	70	81	88	90	87	87	93	91	93	91	90	91	91	93	93	92	94	92	86	80	77	77
315	78	72	68	79	86	88	85	85	90	89	89	89	88	89	89	90	90	89	92	89	83	77	74	73
400	76	70	66	77	84	86	83	83	88	87	88	87	86	87	87	88	88	87	89	86	81	74	70	68
500	74	68	64	75	82	83	80	81	86	85	86	85	84	85	85	86	86	85	87	84	78	70	66	63
630	72	66	62	73	80	81	78	78	84	83	84	83	82	82	83	84	83	82	84	80	74	66	61	57
800	70	64	60	70	77	78	75	76	82	80	82	80	80	80	80	81	81	79	81	77	70	62	56	50
1000	68	62	58	67	74	75	72	73	80	78	80	78	77	78	78	79	78	76	77	73	66	57	49	42
1250	66	60	55	64	71	72	69	69	77	76	78	76	75	75	75	76	75	73	74	69	62	51	42	31
1600	64	57	52	61	67	68	65	66	74	74	75	74	73	73	72	73	72	70	70	64	56	44	33	19
2000	61	53	48	57	64	64	61	62	70	72	73	71	70	70	70	70	68	65	65	58	50	36	22	4
2500	57	49	44	53	59	60	57	58	66	68	70	69	67	67	66	66	65	61	60	52	43	27	9	
3150	53	45	39	48	54	55	52	53	62	64	67	66	64	64	63	63	60	56	54	44	34	15		
4000	49	40	34	42	49	49	46	47	56	59	63	62	61	61	59	58	55	50	47	35	23	1		
5000	44	35	29	38	44	45	41	42	50	53	59	58	56	57	55	53	50	44	38	24	10			
6300	39	30	24	33	39	40	36	37	44	48	54	54	53	53	50	48	43	36	28	10				
8000	37	28	22	31	37	37	34	34	42	45	51	50	49	48	45	41	35	26	16					
10000	34	26	20	28	34	35	31	31	38	41	47	46	44	43	38	34	26	14	1					
12500	32	24	18	26	32	32	28	28	35	38	43	41	39	36	31	24	15	0						
16000	30	21	15	23	29	29	25	25	31	33	38	35	32	29	22	13	1							
20000	28	19	13	21	26	26	22	21	27	29	33	29	25	20	11	0								
25000	25	16	10	18	23	23	18	17	23	23	26	22	16	9										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION					IDENTIFICATION:				
AIRCRAFT:	OPERATION:	METEOROLOGY:			OMEGA				
A-10A	MAX RATED THRUST 6700 NF	TEMP 826 C ITT	REL HUMID = 70 %	59 F	A/C CODE: 037				
	AIRSPEED = 350 KNOTS	DELTA N = 0.0 DB			OPS CODE: 111				
					PROFILE VER: B				
					18 AUG 77				
					PAGE M2				
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DRA)	PML (PNDB)	PMLT** (PNDR)	SEL (DB)	SELT** (DB)	EPNL** (FPMDB)		
200	105.0	105.0	119.0	119.7	102.3	103.9	107.5		
250	102.8	103.6	116.7	117.4	101.1	102.7	106.2		
315	100.5	101.3	114.3	115.1	99.8	101.4	104.8		
400	98.2	99.0	111.9	112.6	98.5	100.1	103.4		
500	95.8	96.6	109.3	110.0	97.1	98.7	101.8		
630	93.3	94.1	106.6	107.3	95.6	97.2	100.1		
800	90.8	91.5	103.7	104.4	94.0	95.7	98.2		
1000	88.1	88.9	100.6	101.4	92.4	94.0	96.1		
1250	85.3	86.1	97.2	98.0	90.6	92.2	93.8		
1600	82.4	83.2	3.6	94.3	88.7	90.3	91.1		
2000	79.4	80.1	89.7	90.4	86.6	88.2	88.2		
2500	76.1	76.8	85.7	86.4	84.3	86.0	85.2		
3150	72.5	73.3	81.4	82.1	81.8	83.4	81.9		
4000	68.6	69.2	76.6	77.2	78.9	80.2	77.8		
5000	64.3	64.7	71.4	71.8	75.5	76.5	73.3		
6300	59.6	59.9	65.8	66.1	71.8	72.5	68.4		
8000	55.1	55.2	61.3	61.5	68.3	68.7	64.5		
10000	50.3	50.3	56.4	56.4	64.5	64.5	60.3		
12500	45.1	45.1	51.0	51.0	60.4	60.4	55.9		
16000	39.5	39.5	44.7	44.7	55.8	55.8	50.6		
20000	33.4	33.4	37.0	37.0	50.7	50.7	43.9		
25000	26.8	26.8	27.8	27.8	45.0	45.0	35.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
	A-1C	MAX RATED THRUST							
250	(	(	(	(	(	(	(	(	(
	6700 NF	826 C ITT							
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 350 KNOTS	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	DELTA N = 0.0 DB							
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 4	IDENT: 6.6-037-111-180877-B							
S	(	(	(	(	(	(	(	(	(
L	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
D	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
S	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
C	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
F	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

NOISE LEVEL IN DB

```

200 (-----S-T-E-----)
( ( A-10A      MAX RATED THRUST
( ( 6700 NF        826 C ITT
( ( AIRSPEED = 350 KNOTS
315 ( (  TEMP = 59 F  REL HUMID = 70 %
( (  DELTA N = 0.0 DB
400 ( (  NO. OF RECORDS: 4
( (  IDENT: 6.6-037-111-160877-B
500 ( (  . . . . .
S 630 ( (  . . . . .
L 630 ( (  . . . . .
A 800 ( (  . . . . .
N 800 ( (  . . . . .
T 1000 ( (  . . . . .
D 1250 ( (  . . . . .
I 1250 ( (  . . . . .
S 1600 ( (  . . . . .
T 1600 ( (  . . . . .
A 2000 ( (  . . . . .
N 2000 ( (  . . . . .
C 2500 ( (  . . . . .
E 2500 ( (  . . . . .
I 3150 ( (  . . . . .
N 3150 ( (  . . . . .
A 4000 ( (  . . . . .
F 5000 ( (  . . . . .
E 5000 ( (  . . . . .
E 6300 ( (  . . . . .
T 6300 ( (  . . . . .
8000 ( (  . . . . .
10000 ( (  . . . . .
12500 ( (  . . . . .
16000 ( (  . . . . .
20000 ( (  . . . . .
25000 ( (  . . . . .

```

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30 40 50 60 70 80 90 100 110
-----X-----
      NOISE LEVEL IN DB

```

	20	30	40	50	60	70	80	90	MEAN	SD
50	.	.	.	.	.	.	.	.	63.9	4.1
63	.	.	.	.	.	X	.	.	59.1	4.8
80	.	.	.	.	X	.	.	.	65.8	3.2
100	.	.	.	.	.	.	.	.	75.4	2.5
125	.	.	.	.	.	.	X	.	86.1	2.0
160	.	.	.	.	.	.	.	X	82.6	2.1
200	.	.	.	.	.	.	X	.	73.6	2.4
250	.	.	.	.	.	.	.	.	80.2	2.6
315	.	.	.	.	.	.	X	.	79.7	4.1
400	.	.	.	.	.	.	X	.	79.9	1.8
500	.	.	.	.	.	.	X	.	78.0	1.4
630	.	.	.	.	.	.	X	.	78.2	2.4
800	.	.	.	.	.	.	X	.	77.6	1.2
1000	.	.	.	.	.	.	X	.	78.5	1.1
1250	.	.	.	.	.	.	X	.	78.3	.6
1600	.	.	.	.	.	.	X	.	79.4	1.5
2000	.	.	.	.	.	.	X	.	77.1	1.9
2500	.	.	.	.	.	.	X	.	82.1	3.4
3150	.	.	.	.	.	.	X	.	87.0	2.1
4000	.	.	.	.	.	.	X	.	75.6	2.3
5000	.	.	.	.	.	X	.	.	68.7	1.3
6300	.	.	.	.	.	X	.	.	67.1	2.6
8000	.	.	.	.	.	X	.	.	65.1	4.0
10000	.	.	.	.	.	X	.	.	64.7	5.6

A-10A      NORMAL RATED THRUST      6200 NF      756 C ITT  
AIRSPEED = 300 KNOTS      TEMP = 59 F      PNLT = 109.6 PND9  
SLANT DISTANCE = 1000 FEET      REL HUMID = 70 %      PNL = 106.9 PND8  
NO. OF RECORDS = 8      IDENT# 6.6-037-112-180877      ALT = 94.4 DBA  
AL = 91.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 037																							
( OPERATION: )		OPS CODE: 112																							
( NORMAL RATED THRUST )		REL HUMID = 70 %																							
( 6200 NF )		PROFILE VER: B																							
( )		18 AUG 77																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
( )		PAGE H3																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 78	73	80	90	100	97	88	94	94	94	93	93	93	93	94	94	95	94	99	105	96	90	91	94	101
( 250	( 76	71	78	87	98	95	80	92	92	92	91	91	91	91	92	92	93	91	97	103	93	88	89	91	97
( 315	( 74	69	76	85	96	93	84	90	90	90	88	89	88	88	89	88	89	89	95	101	91	85	86	88	93
( 400	( 72	67	74	83	94	91	82	88	88	88	86	87	86	87	87	87	87	87	93	98	88	82	83	84	89
( 500	( 70	65	72	81	92	89	80	86	86	86	84	85	84	85	85	85	85	85	90	96	85	79	80	80	84
( 630	( 68	63	70	79	90	87	78	84	84	84	82	83	82	83	83	83	84	82	88	93	82	76	76	76	79
( 800	( 66	61	68	77	88	85	76	82	82	82	80	80	80	80	81	81	82	80	85	90	79	73	72	71	72
( 1000	( 64	59	66	75	86	83	74	80	80	80	78	78	78	78	78	78	79	77	82	87	76	69	67	65	65
( 1250	( 62	57	64	73	84	81	72	78	78	78	76	76	76	75	76	76	77	74	79	84	72	64	62	58	56
( 1600	( 60	55	62	71	82	79	69	76	75	75	74	74	74	73	74	73	74	71	76	80	67	59	56	50	45
( 2000	( 58	53	60	69	80	76	67	74	73	73	71	71	71	70	71	70	71	68	72	76	62	54	48	40	31
( 2500	( 56	51	58	67	78	74	65	72	71	71	69	69	68	68	68	67	68	64	68	71	56	47	40	29	15
( 3150	( 54	49	56	65	76	72	63	69	69	69	66	66	65	65	65	64	64	60	63	65	49	39	29	14	
( 4000	( 52	47	53	63	74	70	61	67	66	66	64	64	63	62	62	61	60	56	58	59	41	30	17		
( 5000	( 50	45	51	61	71	68	58	65	64	64	61	60	59	59	57	56	55	51	52	51	31	18			
( 6300	( 48	43	49	59	69	65	56	62	61	61	58	57	55	55	52	50	45	44	42	19	4				
( 8000	( 45	40	47	56	67	63	54	60	58	58	55	54	51	50	47	45	38	36	31	4					
( 10000	( 43	38	45	54	64	61	51	57	56	55	51	50	47	45	41	38	29	25	17						
( 12500	( 41	36	42	52	62	58	48	54	52	51	47	45	42	39	35	29	19	13							
( 16000	( 39	34	40	49	59	55	45	51	49	47	43	40	36	32	26	19									
( 20000	( 37	31	38	47	57	52	42	47	45	43	38	35	29	24	17										
( 25000	( 34	29	35	44	54	49	39	43	41	38	32	28	21	15											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE\*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: A/C CODE: 037  
 ( NORMAL RATED THRUST ) TEMP = 59 F OPS CODE: 112  
 ( 6200 NF 756 C IIT ) REL HUMID = 70 % PROFILE VER: B  
 ( AIRSPEED = 300 KNOTS ) DELTA N = 0.0 DB 18 AUG 77  
 ( ) PAGE I3

IDENTIFICATION: OMEGA 6.6

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PML (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.6	112.4	125.1	127.8	107.2	108.9	112.5
250	107.3	110.0	122.8	125.5	105.8	107.6	111.2
315	104.9	107.6	120.4	123.1	104.5	106.2	109.8
400	102.5	105.2	117.9	120.7	103.0	104.7	108.4
500	99.9	102.6	115.4	118.1	101.5	103.2	106.8
630	97.3	100.0	112.7	115.4	99.8	101.6	105.1
800	94.6	97.3	109.9	112.6	98.1	99.8	103.3
1000	91.7	94.4	106.9	109.6	96.2	98.0	101.3
1250	88.7	91.4	103.6	106.4	94.2	95.9	99.1
1600	85.5	88.2	100.2	102.9	92.1	93.8	96.6
2000	82.2	84.9	96.5	99.2	89.7	91.4	93.9
2500	78.7	81.4	92.4	95.1	87.3	89.0	90.8
3150	75.2	77.9	88.0	90.7	84.7	86.4	87.4
4000	71.7	73.8	83.2	85.4	82.2	83.6	83.3
5000	68.2	69.8	78.8	80.4	79.7	80.8	79.5
6300	64.7	65.8	75.1	76.2	77.3	78.0	76.5
8000	61.3	61.8	71.4	71.9	74.8	75.2	73.5
10000	57.8	57.8	67.6	67.6	72.3	72.3	70.3
12500	54.2	54.2	63.7	63.7	69.8	69.8	67.4
16000	50.5	50.5	59.6	59.6	67.1	67.1	64.3
20000	46.8	46.8	55.3	55.3	64.3	64.3	61.0
25000	42.8	42.8	50.8	50.8	61.4	61.4	57.5

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



```

200 (-----A-----P-----)
( A-10A NORMAL RATED THRUST
( 6200 NF 756 C ITT
( AIRSPEED = 300 KNOTS
( TEMP = 59 F REL HUMID = 70 %
( DELTA N = 0.0 DB
( NO. OF RECORDS: 8
( IDENT: 6.6-037-112-160877-B
(
S 630 ( . . . . . A + . . . . . * P
L 800 ( . . . . . A + . . . . . * P
N 1000 ( . . . . . A + . . . . . * P
D 1250 ( . . . . . A + . . . . . * P
I 1600 ( . . . . . A + . . . . . * P
T 2000 ( . . . . . A + . . . . . * P
N 2500 ( . . . . . A + . . . . . * P
E 3150 ( . . . . . A + . . . . . * P
I 4000 ( . . . . . A + . . . . . * P
F 5000 ( . . . . . A + . . . . . * P
E 6300 ( . . . . . A + . . . . . * P
T 8000 ( . . . . . A + . . . . . * P
10000 ( . . . . . X . . . . . AIR TO GROUND
12500 ( . . . . . X . . . . . P = PNLT
16000 ( . . . . . X . . . . . * = PNL
20000 ( . . . . . X . . . . . † = ALT
( . . . . . X . . . . . A = AL
25000 (-----X-----)
50 60 70 80 90 100 110 120 130
NOISE LEVEL IN DB

```

	NORMAL RATED THRUST					S-T-E				
	A-10A	6200 NF	756 C ITT	300 KNOTS	70 %					
200	(	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(	(

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		A/C CODE: 037																						
A-10A		OPS CODE: 112																						
		PROFILE VER: B																						
		18 AUG 77																						
		PAGE L3																						
		METEOROLOGY:																						
		TEMP = 59 F																						
		REL HUMID = 70 %																						
		DELTA N = 0.0 DB																						
		AIRSPEED = 300 KNOTS																						
		FREQUENCY BAND NUMBER																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	68	75	85	95	92	83	89	89	89	86	88	88	88	89	90	89	94	100	91	85	86	89	96
250	71	66	73	82	93	90	81	87	87	87	86	86	86	86	87	88	86	92	98	88	83	84	86	92
315	69	64	71	80	91	88	79	85	85	85	83	84	83	83	85	85	84	90	96	86	80	81	83	88
400	67	62	69	78	89	86	77	83	83	83	81	82	81	82	82	84	82	88	93	83	77	78	79	84
500	65	60	67	76	87	83	74	81	81	81	79	80	79	80	80	80	82	80	85	91	80	74	75	79
630	63	58	65	74	85	81	72	79	79	79	77	78	77	78	78	79	77	83	88	77	71	71	71	74
800	61	56	63	72	82	78	69	76	77	77	75	75	75	75	76	76	77	80	85	74	68	67	66	67
1000	59	54	61	69	79	75	66	73	75	75	73	73	73	73	73	74	72	77	82	71	64	62	60	60
1250	57	52	58	66	76	72	63	70	72	73	71	71	70	71	71	72	69	74	79	67	59	57	53	51
1600	55	49	54	63	72	68	59	66	69	71	69	69	69	69	68	69	66	71	75	62	54	51	45	40
2000	52	45	51	59	68	64	55	62	65	68	66	66	65	65	66	65	66	63	67	71	57	49	43	35
2500	48	41	47	54	64	60	51	58	61	65	64	64	63	63	63	62	63	59	63	66	51	42	35	24
3150	44	37	42	50	59	55	46	53	56	60	60	61	60	60	60	59	59	55	60	60	44	34	24	9
4000	40	32	36	44	54	50	40	47	51	56	57	58	57	57	57	56	55	51	53	54	36	25	12	
5000	35	27	32	39	49	45	35	42	45	50	52	54	53	54	52	51	46	47	46	26	13			
6300	30	23	27	35	44	40	31	37	39	45	48	49	49	50	47	45	40	39	37	14				
8000	27	20	25	32	42	38	28	35	36	42	45	46	45	45	42	40	33	31	26					
10000	25	18	23	30	39	35	25	32	34	39	41	42	41	40	36	33	24	20	12					
12500	23	16	20	28	37	32	23	29	30	35	37	37	36	34	30	24	14	8						
16000	21	14	18	25	34	30	20	26	27	31	33	32	30	27	21	14	2							
20000	19	11	16	23	32	27	17	22	23	27	28	27	23	19	12	2								
25000	16	9	13	20	29	24	13	18	19	22	22	20	15	10	0									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	REL HUMID = 70 %	TEMP	METEOROLOGY:
A-10A	6200 NF	756 C ITT	DELTA N = 0.0 DB	AIRSPEED = 300 KNOTS	OMEGA 6.6	A/G CODE: 037	OPS CODE: 112	PROFILE VER: R	18 AUG 77	PAGE M3
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	REL HUMID = 70 %	TEMP	METEOROLOGY:
200	104.6	107.4	120.1	122.8	102.2	103.9	107.5			
250	102.3	105.0	117.8	120.5	100.8	102.6	106.2			
315	99.9	102.6	115.4	118.1	99.5	101.2	104.8			
400	97.5	100.2	112.9	115.7	98.0	99.7	103.4			
500	94.9	97.6	110.4	113.1	96.5	98.2	101.8			
630	92.3	95.0	107.6	110.3	94.8	96.5	100.1			
800	89.5	92.3	104.7	107.5	93.1	94.8	98.2			
1000	86.7	89.4	101.6	104.4	91.2	92.9	96.1			
1250	83.6	86.3	98.3	101.0	89.1	90.9	93.7			
1600	80.4	83.1	94.6	97.3	86.9	88.6	91.0			
2000	76.9	79.6	90.6	93.3	84.5	86.2	88.0			
2500	73.2	76.0	86.1	88.9	81.8	83.5	84.6			
3150	69.3	72.0	81.1	83.9	78.9	80.6	80.6			
4000	65.2	67.3	75.5	77.7	75.7	77.1	75.6			
5000	60.7	62.3	69.2	70.8	72.2	73.3	69.9			
6300	56.0	57.1	63.5	64.6	68.6	69.2	64.9			
8000	51.5	52.1	57.9	58.5	65.1	65.4	60.0			
10000	46.8	46.8	52.8	52.8	61.4	61.4	55.6			
12500	41.8	41.8	46.7	46.7	57.4	57.4	50.4			
16000	36.4	36.4	40.3	40.3	53.0	53.0	45.0			
20000	30.6	30.6	32.7	32.7	48.2	48.2	38.5			
25000	24.5	24.5	21.7	21.7	43.1	43.1	28.4			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



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200 (-----S-T-E-----)
( A-10A NORMAL RATED THRUST
( 6200 NF 756 C ITT . . . . . S T E .
( AIRSPEED = 300 KNOTS . . . . . S T E .
315 ( TEMP = 59 F REL HUMID = 70 % . . . . . S T E .
( DELTA N = 0.0 DB . . . . . S T E .
400 ( NO. OF RECORDS: 8 . . . . . S T E .
( IDENT: 6.6-037-112-180677-B . . . . . S T E .
500 ( . . . . . S T E .
( . . . . . S T E .
630 ( . . . . . S T E .
( . . . . . S T E .
800 ( . . . . . S T E .
( . . . . . S T E .
1000 ( . . . . . S.T. E . . . . .
( . . . . . S T E .
1250 ( . . . . . S T E .
( . . . . . S T E .
1600 ( . . . . . S T E .
( . . . . . S T E .
2000 ( . . . . . S T E . . . . .
( . . . . . S T E .
2500 ( . . . . . S T E .
( . . . . . S T E .
3150 ( . . . . . S X .
( . . . . . X T .
4000 ( . . . . . X T .
( . . . . . X T .
5000 ( . . . . . E S T . . . . .
( . . . . . E X .
6300 ( . . . . . E X .
( . . . . . E X .
8000 ( . . . . . E X .
( . . . . . E X .
10000 ( . . . . . E X . . . . . GROUND TO GROUND
( . . . . . E X . . . . . E = EPNL
12500 ( . . . . . E X . . . . . T = SELT
( . . . . . E X . . . . . S = SEL
16000 ( . . . . . E X . . . . .
( . . . . . E X . . . . .
20000 ( . . . . . E X . . . . .
( . . . . . E X . . . . .
25000 (-----X-----)
30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

```

	20	30	40	50	60	70	80	90	MEAN	SD
F	.	.	.	.	.	.	.	.	62.6	2.5
R	.	.	.	.	.	.	.	.	61.2	3.3
E	.	.	.	.	.	.	.	.	64.4	2.1
Q	.	.	.	.	.	.	.	.	71.3	2.0
U	.	.	.	.	.	.	.	.	74.4	2.3
J	.	.	.	.	.	.	.	.	71.8	2.3
E	.	.	.	.	.	.	.	.	64.3	3.1
N	.	.	.	.	.	.	.	.	71.6	1.0
G	.	.	.	.	.	.	.	.	68.4	1.8
Y	.	.	.	.	.	.	.	.	72.6	2.5
I	.	.	.	.	.	.	.	.	70.0	3.5
N	.	.	.	.	.	.	.	.	66.9	1.4
H	.	.	.	.	.	.	.	.	66.6	1.6
Z	.	.	.	.	.	.	.	.	66.2	.6
	.	.	.	.	.	.	.	.	66.1	.8
	.	.	.	.	.	.	.	.	67.2	1.5
	.	.	.	.	.	.	.	.	70.1	1.9
	.	.	.	.	.	.	.	.	88.0	2.7
	.	.	.	.	.	.	.	.	77.0	4.8
	.	.	.	.	.	.	.	.	68.3	2.7
	.	.	.	.	.	.	.	.	65.0	0.0
	.	.	.	.	.	.	.	.	62.0	0.0
	.	.	.	.	.	.	.	.	59.0	0.0
	.	.	.	.	.	.	.	.	56.0	0.0

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

A-10A

TRAFFIC PATTERN

5325 NF

646 C ITT

AIRSPEED = 160 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 8  
 TEMP = 57  
 REL HUMID =  
 IDENT: 6.6 . 80877  
 PNLT = 108.4 PNDB  
 PNL = 103.6 PNDB  
 ALT = 94.7 DBA  
 AL = 89.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 037																							
( OPERATION: )		OPS CODE: 113																							
( TRAFFIC PATTERN )		PROFILE VER: B																							
( 5325 NF 646 C IIT )		18 AUG 77																							
( )		PAGE M4																							
( AIRSPEED = 160 KNOTS )		DELTA N = 0.0 08																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	75	79	85	89	86	79	86	83	87	85	82	82	81	82	83	87	105	96	89	86	86	88	88	92
250	75	73	77	83	87	84	77	84	81	85	83	80	79	79	80	81	84	103	93	86	84	84	85	89	
315	73	71	75	81	84	82	74	82	79	83	80	78	77	77	77	79	82	101	91	84	81	81	82	85	
400	71	69	73	79	82	80	72	80	77	81	78	76	75	75	75	77	80	98	88	81	79	78	78	81	
500	69	67	70	77	80	78	70	78	75	79	75	73	73	73	73	74	78	96	86	78	76	75	74	76	
630	57	65	68	75	78	76	68	76	73	77	74	71	71	71	71	72	75	93	83	75	72	71	70	70	
800	65	63	66	73	76	74	66	74	71	75	72	69	69	69	69	70	73	91	80	72	69	67	65	64	
1000	63	61	64	71	74	72	64	72	68	73	70	67	67	66	66	67	70	88	77	68	65	62	59	56	
1250	61	59	62	69	72	70	62	70	66	70	68	65	64	64	64	65	67	85	74	64	61	57	52	47	
1600	59	57	60	67	70	68	60	67	64	68	66	62	62	61	61	62	64	82	70	60	56	50	44	36	
2000	57	55	58	65	68	66	58	65	62	66	63	60	59	59	58	59	61	78	65	54	50	43	34	22	
2500	54	54	56	63	66	63	56	63	60	64	61	58	57	56	55	56	57	74	61	48	43	34	22	6	
3150	52	51	54	61	64	61	54	61	57	61	58	55	54	53	52	52	53	69	55	41	35	24	8		
4000	50	49	52	59	62	59	51	59	55	59	56	52	51	50	48	48	49	64	48	33	25	11			
5000	48	47	50	57	60	57	49	56	53	56	53	49	48	46	45	43	44	57	41	23	14				
6300	46	45	48	55	57	55	47	54	50	53	50	46	44	42	40	38	39	50	31	11					
8000	44	43	46	52	55	52	44	51	47	50	47	42	40	38	35	32	30	41	20						
10000	42	40	43	50	53	50	42	49	44	47	43	38	36	33	29	25	22	31	7						
12500	40	38	41	48	50	47	39	45	41	44	39	34	31	27	22	17	12	18							
16000	38	36	39	45	48	44	36	42	38	40	35	29	25	20	14	7									
20000	35	33	36	43	45	41	33	39	34	35	30	23	18	12	4										
25000	33	31	34	40	42	38	29	35	29	30	24	16	10	2											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
OPERATION: METEOROLOGY: A/C CODE: 037									
TRAFFIC PATTERN 646 C IIT ) TEMP = 59 F ) OPS CODE: 113									
5325 NF ) REL HUMID = 70 % ) PROFILE VER: B									
AIRSPEED = 160 KNOTS ) DELTA N = 0.0 DB ) PAGE 14									
IDENTIFICATION:									
OMEGA 6.6									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)		
200	107.4	112.2	121.4	126.2	103.6	107.4	111.7		
250	105.2	110.0	119.1	123.9	102.3	106.1	110.4		
315	102.9	107.7	116.8	121.6	101.0	104.8	109.1		
400	100.5	105.3	114.4	119.2	99.7	103.4	107.7		
500	98.0	102.8	111.9	116.7	98.2	102.0	106.2		
630	95.5	100.3	109.3	114.1	96.6	100.4	104.6		
800	92.8	97.6	106.5	111.3	94.9	98.7	102.8		
1000	89.9	94.7	103.6	108.4	93.1	96.8	100.9		
1250	86.8	91.6	100.5	105.3	91.0	94.8	98.8		
1600	83.5	88.3	97.2	101.9	88.7	92.4	96.5		
2000	79.9	84.6	93.5	98.3	86.0	89.8	93.8		
2500	75.8	80.6	89.6	94.4	83.0	86.8	90.9		
3150	71.4	76.2	85.3	90.0	79.6	83.3	87.6		
4000	65.5	70.4	80.4	84.3	75.7	78.7	83.0		
5000	61.4	64.3	75.1	78.0	71.6	73.8	77.9		
6300	56.4	58.4	69.2	71.2	67.6	69.1	72.3		
8000	52.1	53.0	62.8	63.8	64.2	65.0	66.1		
10000	48.3	48.3	58.2	58.2	61.4	61.4	61.7		
12500	44.7	44.7	53.6	53.6	58.8	58.8	58.1		
16000	41.0	41.0	48.3	48.3	56.1	56.1	53.9		
20000	37.1	37.1	43.0	43.0	53.2	53.2	49.5		
25000	33.0	33.0	37.0	37.0	50.1	50.1	44.5		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

NOISE LEVEL IN DB	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

TRAFFIC PATTERN  
 A-10A  
 5325 NF  
 646 C ITT  
 AIRSPEED = 160 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 8  
 IDENT: 6.6-037-113-1806.7-B

AIR TO GROUND  
 P = PNLT  
 + = PNL  
 + = ALT  
 A = AL

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200 (-----S-T-E-----)
( A-10A TRAFFIC PATTERN
( 5325 NF 646 C ITT . . . . . S T E . .
( AIRSPEED = 160 KNOTS
( TEMP = 59 F REL HUMID = 70 % . . . . . S T E . .
( DELTA N = 0.0 DB . . . . . S T E . .
( NO. OF RECORDS: 8 . . . . . S T E . .
( IDENT: 6.6-037-113-180877-B . . . . . S T E . .
( . . . . . S T E . .
S 630 ( . . . . . S T E . .
L 800 ( . . . . . S T E . .
A N 1000 ( . . . . . S T E . .
T 1250 ( . . . . . S T E . .
D 1600 ( . . . . . S T E . .
I S 2000 ( . . . . . S T E . .
T A 2500 ( . . . . . S T E . .
C 3150 ( . . . . . S T E . .
E I M 4000 ( . . . . . S T E . .
F 5000 ( . . . . . S T E . .
E E 6300 ( . . . . . S T E . .
T 8000 ( . . . . . S T E . .
10000 ( . . . . . X E . . . . . AIR TO GROUND
12500 ( . . . . . E X . . . . . E = EPNL
16000 ( . . . . . E X . . . . . T = SELT
20000 ( . . . . . E X . . . . . S = SEL
25000 (-----X-----)
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: A-10A

OPERATIONS: METEOROLOGY: A/C CODE: 037  
 TRAFFIC PATTERN: 646 C ITT ) TEMP = 59 F  
 5325 NF ) REL HUMID = 70 %  
 AIRSPEED = 160 KNOTS ) DELTA N = 0.0 DB  
 IDENTIFICATION: OMEGA 6.6

SLANT DISTANCE (FEET)

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	72	70	74	80	84	81	74	81	78	82	80	77	77	76	77	78	82	100	91	84	81	81	83	87
250	70	68	72	78	82	79	72	79	76	80	78	75	74	74	75	76	79	98	88	81	79	79	80	84
315	66	66	70	76	79	77	69	77	74	78	75	73	72	72	72	74	77	96	86	79	76	76	77	80
400	66	64	68	74	77	75	67	75	72	76	73	71	70	70	70	72	75	93	83	76	74	73	73	76
500	64	62	65	72	75	72	65	73	70	74	71	68	68	68	68	69	73	91	81	73	71	70	69	71
630	62	60	63	70	73	70	62	70	68	72	69	66	66	66	66	67	70	88	78	70	67	66	65	65
800	60	58	61	68	70	67	59	67	66	70	67	64	64	64	64	65	68	86	75	67	64	62	60	59
1000	58	56	59	65	67	64	57	64	63	68	65	62	62	61	61	62	65	83	72	63	60	57	54	51
1250	56	54	56	62	64	61	53	61	60	65	63	60	59	59	59	60	62	80	69	59	56	52	47	42
1600	54	51	53	58	61	57	50	58	57	63	61	57	57	56	56	57	59	77	65	55	51	45	39	31
2000	50	47	49	55	57	54	46	54	53	61	58	55	54	54	53	54	56	73	60	49	45	38	29	17
2500	47	43	45	50	52	49	42	49	50	57	56	53	52	51	50	51	52	69	56	43	38	29	17	1
3150	43	39	41	46	48	44	37	44	45	53	52	50	49	48	47	47	48	64	50	36	30	19	3	
4000	38	34	35	40	42	39	31	39	40	48	49	46	46	45	43	43	44	59	43	28	20	6		
5000	33	29	30	35	37	34	26	34	34	43	44	42	42	41	40	38	39	52	36	18	9			
6300	28	25	26	31	32	29	21	29	28	37	40	38	38	37	35	33	33	45	26	6				
8000	26	23	24	28	30	27	19	26	25	34	37	34	34	33	30	27	25	36	15					
10000	24	20	21	26	28	24	16	23	22	31	33	30	30	28	24	20	17	26	2					
12500	22	18	19	24	25	22	13	20	19	28	29	26	25	22	17	12	7	13						
16000	20	16	17	21	23	19	10	17	16	24	25	21	19	15	9	2								
20000	17	13	14	19	20	16	7	14	12	19	20	15	12	7										
25000	15	11	12	16	17	13	4	10	7	14	14	9	4											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

) IDENTIFICATION:									
) OMEGA 6.6									
) A/C CODE: 037									
) OPS CODE: 113									
) PROFILE VER: B									
) 18 AUG 77									
) PAGE M4									
) METEOROLOGY:									
) TEMP = 59 F									
) REL HUMID = 70 %									
) DELTA N = 0.0 DB									
) AIRCRAFT:									
) OPERATION:									
) TRAFFIC PATTERN 646 C IIT									
) 5325 NF									
) AIRSPEED = 160 KNOTS									
) SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
) GROUND-TO-GROUND PROPAGATION									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PMLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	102.4	107.2	116.4	121.2	98.6	102.4	106.7		
250	100.2	105.0	114.1	116.9	97.3	101.1	105.4		
315	97.9	102.7	111.8	116.6	96.0	99.8	104.1		
400	95.5	100.3	109.4	114.1	94.7	98.4	102.7		
500	93.0	97.8	106.8	111.6	93.2	97.0	101.1		
630	90.5	95.3	104.2	109.0	91.6	95.4	99.5		
800	87.8	92.6	101.4	106.2	89.9	93.7	97.7		
1000	84.9	89.7	98.4	103.2	88.1	91.8	95.7		
1250	81.8	86.6	95.2	100.0	86.0	89.8	93.5		
1600	78.5	83.3	91.8	96.6	83.6	87.4	91.1		
2000	74.8	79.6	88.0	92.8	81.0	84.7	88.3		
2500	70.7	75.5	83.8	88.6	77.9	81.7	85.1		
3150	66.2	71.0	79.1	83.9	74.3	78.1	81.4		
4000	61.0	64.8	73.7	77.6	70.2	73.2	76.3		
5000	55.2	58.0	67.7	70.5	65.3	67.6	70.5		
6300	48.7	50.6	60.6	62.5	59.9	61.4	63.6		
8000	42.4	43.4	52.7	53.7	54.6	55.3	56.0		
10000	36.7	36.7	43.2	43.2	49.9	49.9	46.7		
12500	31.5	31.5	34.3	34.3	45.7	45.7	38.9		
16000	26.4	26.4	26.1	26.1	41.6	41.6	31.6		
20000	21.0	21.0	15.3	15.3	37.2	37.2	21.9		
25000	15.1	15.1	4.6	4.6	32.3	32.3	12.1		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	TRAFFIC PATTERN					NOISE LEVEL IN DB
200	A-10A					40
250	5325 NF		646 C	ITT		50
315	AIR SPEED = 160 KNOTS					60
400	TEMP = 59 F		REL HUMID = 70 %			70
500	DELTA N = 0.0 DB					80
630	NO. OF RECORDS: 8					90
800	IDENT: 6.6-037-113-180877-B					100
1000						110
1250						120
1600						
2000						
2500						
3150						
4000						
5000						
6300						
8000						
10000						
12500						
16000						
20000						
25000						
GROUND TO GROUND						
P = PNL						
* = PNL						
+ = ALT						
A = AL						

200 (-----S-T-E-----)  
 ( A-10A TRAFFIC PATTERN  
 ( 5325 NF 646 C ITT . . . . . S . T E .  
 ( AIRSPEED = 160 KNOTS . . . . .  
 ( TEMP = 59 F REL HUMID = 70 % . . . . . S T E .  
 ( DELTA N = 0.0 DB . . . . . S T . E .  
 ( NO. OF RECORDS: 8 . . . . .  
 ( IDENT: 6.6-037-113-180877-B . . . . . S . T . E .  
 ( . . . . .  
 S 630 ( . . . . . S T E .  
 L A 800 ( . . . . . S T E .  
 N T 1000 ( . . . . . S T . E . . . . .  
 O 1250 ( . . . . . S T E .  
 I S 1600 ( . . . . . S T . E .  
 T A 2000 ( . . . . . S . T . E . . . . .  
 N C 2500 ( . . . . . S T E .  
 E I 3150 ( . . . . . S T . E .  
 N 4000 ( . . . . . S T E .  
 F 5000 ( . . . . . S T E . . . . .  
 E 6300 ( . . . . . S T E .  
 T 8000 ( . . . . . X E . . . . .  
 10000 ( . . . . . X . . . . .  
 12500 ( . . . . . E . X . . . . . GROUND TO GROUND  
 16000 ( . . . . . X . . . . . E = EPNL  
 20000 ( . . . . . X . . . . . T = SELT  
 25000 ( . . . . . X . . . . . S = SEL

30 40 50 60 70 80 90 100 110  
 -----NOISE LEVEL IN DB-----





TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 037 )																			
A-10A AIRCRAFT ( IDLE, 25% RPM ) TEMP = 59 F ) OPERATION CODE 02013 )																			
ENG. TF34-GE-100 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A )																			
GROUND RUNUP ( ( REL HUMID = 70 % ) 06 FEB 76 )																			
( ( DELTA N = -3.0 DR ) PAGE C1 )																			
BAND CENTER																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	52	52	52	54	53	51	52	55	52	55	53	53	53	55	53	55	55	54	53
63	55	57	57	58	56	55	56	59	59	59	59	60	61	59	59	61	60	60	56
80	59	59	60	62	61	58	57	57	57	58	63	64	64	64	65	65	64	64	62
100	65	66	65	68	66	65	63	65	63	64	63	65	66	67	68	69	69	69	65
125	71	71	70	66	64	65	66	66	66	67	66	67	67	69	70	69	68	69	67
160	71	70	69	62	62	63	69	70	67	67	68	69	70	68	69	68	66	61	63
200	71	70	67	60	62	66	66	65	66	64	64	69	72	71	67	64	62	64	61
250	64	63	61	59	59	57	57	57	57	55	57	55	57	59	57	56	55	55	53
315	65	64	59	61	58	59	57	59	62	60	59	61	58	61	62	56	57	57	50
400	68	66	61	64	62	60	58	63	64	62	64	62	59	59	55	58	61	61	56
500	64	62	62	60	58	58	52	54	55	52	55	57	54	57	55	56	55	53	53
630	65	64	65	63	62	59	55	57	56	53	55	58	55	58	56	57	55	54	55
800	67	63	65	67	65	62	60	58	54	56	53	55	54	56	55	53	54	54	56
1000	68	65	64	66	66	64	62	59	55	55	54	55	52	55	55	53	54	55	56
1250	70	68	63	67	65	62	59	57	54	56	56	56	54	52	55	56	54	55	55
1600	70	68	67	70	70	68	62	59	54	57	55	57	55	53	55	56	55	55	55
2000	70	70	67	70	68	65	59	57	54	55	55	58	57	55	55	56	55	55	55
2500	70	70	66	70	68	63	62	59	54	53	55	58	57	58	57	55	55	54	54
3150	70	69	65	67	68	63	61	59	53	54	55	59	57	58	57	57	56	54	55
4000	69	70	66	69	67	65	64	62	56	58	59	62	60	59	59	59	57	56	56
5000	69	68	64	66	65	63	61	57	52	53	56	59	57	58	58	57	55	54	54
6300	67	67	62	65	66	62	60	57	51	53	55	58	56	55	56	57	54	52	52
8000	61	61	58	61	61	58	56	53	46	49	53	57	53	51	52	51	50	47	48
10000	57	56	52	56	55	52	51	48	40	43	46	51	48	47	48	46	44	44	43
OVERALL	82	81	78	79	79	76	75	75	74	74	74	76	77	77	76	76	75	75	73

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNDB)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.3	95.8	92.4	94.7	93.8	91.1	89.2	87.9	83.9	84.7	85.5	88.2	86.8	86.4	86.4	85.8	84.6	83.6	83.3
250	94.0	93.5	90.0	92.4	91.5	88.7	86.9	85.6	81.4	82.3	83.2	85.9	84.4	84.0	84.1	83.5	82.2	81.3	81.0
315	91.6	91.1	87.6	89.9	89.1	86.3	84.4	83.1	79.0	74.9	80.7	83.4	82.0	81.6	81.6	81.1	79.8	78.9	78.5
400	89.1	88.5	85.1	87.5	86.7	83.7	81.9	80.6	76.5	77.4	78.2	80.8	79.4	79.1	79.1	78.5	77.3	76.3	76.0
500	86.6	85.9	82.5	85.0	84.1	81.1	79.2	77.9	73.9	74.7	75.5	78.2	76.7	76.4	76.4	75.8	74.6	73.7	73.3
630	83.8	83.3	79.8	82.3	81.3	78.2	76.3	75.0	71.1	71.9	72.7	75.3	73.9	73.5	73.6	73.0	71.8	70.9	70.5
800	81.0	80.4	76.9	79.5	78.4	75.2	73.3	72.0	68.5	68.9	69.7	72.3	70.8	70.7	70.6	70.0	68.8	67.9	67.5
1000	77.9	77.5	73.9	76.5	75.3	72.0	70.1	68.8	65.8	65.7	66.5	69.0	67.6	67.7	67.4	66.9	65.6	64.7	64.4
1250	74.5	74.2	70.8	73.3	72.0	68.9	66.8	65.2	62.8	62.1	63.5	65.4	63.9	64.4	64.1	63.5	62.2	61.6	60.9
1600	71.4	70.8	67.4	69.9	68.7	65.5	63.2	61.2	59.6	58.9	60.2	61.4	60.0	60.8	60.5	59.6	58.6	58.3	57.5
2000	67.6	67.0	63.9	66.1	65.2	61.9	59.3	57.4	56.2	55.3	56.8	57.5	56.0	56.8	57.0	55.5	55.1	54.7	53.5
2500	63.5	62.8	59.8	62.0	61.4	58.0	56.9	53.0	51.9	50.8	52.2	52.8	51.1	52.0	52.4	50.7	50.4	50.0	48.6
3150	59.0	58.0	55.2	57.5	57.0	53.5	49.8	47.7	46.7	45.2	47.1	47.4	45.6	46.6	47.1	45.3	44.9	44.3	42.9
4000	54.3	53.0	50.1	52.5	52.0	48.2	43.7	41.5	40.3	39.0	40.7	41.2	39.8	40.1	40.8	38.5	37.9	37.8	36.7
5000	48.4	46.5	43.2	46.8	46.3	41.6	36.8	34.3	33.0	31.3	32.7	33.9	30.5	33.4	33.0	31.4	29.9	29.8	30.2
6300	41.4	39.0	36.6	39.8	39.5	34.4	28.7	25.3	21.7	19.8	23.1	25.0	18.2	22.4	21.8	21.4	18.3	19.4	19.6
8000	34.9	32.2	29.6	33.3	31.5	25.8	17.4	15.4	11.6	7.2	11.6	13.1	5.8	13.4	10.8	7.9	6.8	8.9	7.2
10000	25.4	21.7	19.9	23.9	18.5	12.0	6.0	4.5	1.5	.2	1.1	4.3							
12500	10.5	11.2	8.0	9.6	5.6														
16000																			
20000																			
25000																			

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 037  
 A-10A AIRCRAFT ( IDLE, 25% RPM ) TEMP )  
 ENG. TF34-GE-100 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) OPERATION CODE 02013  
 GROUND RUNUP ( ) REL HUMID = 70 % ) PROFILE VERSION A )  
 ( ) DELTA N = -3.0 DB ) PAGE 01 )

IDENTIFICATION:  
 ) OMEGA 8.2  
 ) TEST 75-037-001  
 ) RUN 01

ANGLE (DEGREES)

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDS)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY																		
	TEMP = 59 F																		
A-10A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. TF 34-GE-100	DELTA N = -3.0 DB																		
	IDENTIFICATION:																		
GROUND RUNUP	OMEGA 8.2																		
	TEST 75-037-001																		
DISTANCE (FEET)	RUN 01																		
	AIRCRAFT CODE 037																		
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.9	95.8	92.4	95.4	95.2	92.1	90.3	89.3	84.9	86.0	86.6	89.4	88.2	87.6	87.3	85.8	85.4	84.6	84.1
250	94.6	93.5	90.0	93.0	92.9	89.8	87.9	86.9	82.6	83.7	84.3	87.0	85.9	85.3	84.9	83.5	83.0	82.3	81.7
315	92.2	91.1	87.6	90.6	90.5	87.3	85.5	84.5	80.2	81.2	81.8	84.6	83.4	82.8	82.5	81.1	80.6	79.8	79.3
400	89.8	89.5	85.1	88.2	88.0	84.9	82.9	82.0	77.7	78.7	79.3	82.0	80.9	80.3	79.9	78.5	78.0	77.3	76.8
500	87.2	85.9	82.5	85.5	85.4	82.1	80.2	79.3	75.1	76.0	76.6	79.3	78.2	77.6	77.3	75.8	75.4	74.6	74.1
630	84.5	83.3	79.8	83.0	82.7	79.3	77.4	76.4	72.3	73.2	73.8	76.5	75.3	74.8	74.4	73.0	72.6	71.9	71.3
800	81.6	80.4	76.9	80.2	79.8	76.3	74.3	73.4	69.7	70.2	70.7	73.4	72.3	71.9	71.4	70.0	69.5	68.9	68.3
1000	78.6	77.5	73.9	77.2	76.7	73.1	71.1	70.2	67.0	67.0	67.6	70.1	69.0	68.9	68.2	66.9	66.4	65.7	65.2
1250	75.4	74.2	70.8	74.0	73.4	69.9	67.8	66.6	64.0	63.4	64.6	66.6	65.4	65.5	64.9	63.5	63.0	62.6	61.7
1600	72.0	70.8	67.4	70.6	70.1	66.6	64.2	62.6	60.8	60.2	61.3	62.6	61.4	62.0	61.4	59.6	59.4	59.3	58.2
2000	68.2	67.0	63.8	66.8	66.6	63.0	60.4	58.8	57.4	56.7	57.9	58.6	57.4	58.0	57.8	55.5	55.9	55.7	54.3
2500	64.1	62.8	59.8	62.7	62.7	59.1	55.9	54.4	53.1	52.1	53.3	54.0	52.5	53.2	53.2	50.7	51.1	51.0	49.4
3150	59.7	58.0	55.2	58.2	58.3	54.6	50.9	49.1	47.9	46.8	48.2	48.5	47.1	47.8	47.9	45.3	45.7	45.1	43.7
4000	54.8	53.0	50.1	53.0	53.1	49.3	44.5	42.6	41.3	40.1	41.5	42.2	40.2	41.1	41.5	38.5	38.5	37.3	35.7
5000	48.7	48.5	43.2	47.3	47.1	42.2	37.2	35.2	33.7	32.1	33.4	34.6	31.4	34.1	33.5	31.4	30.4	30.4	29.7
6300	43.6	39.0	36.6	40.1	40.0	34.8	29.1	26.9	22.2	20.3	23.5	25.4	18.8	22.9	22.1	21.4	18.7	19.7	19.9
8000	35.6	32.2	29.6	33.4	31.7	26.0	17.6	15.7	11.9	7.5	11.8	13.3	6.1	13.6	10.9	7.9	6.9	9.1	7.3
10000	25.4	21.7	19.9	23.9	18.5	12.0	6.0	4.5	1.5	.2	1.1			4.3					
12500	10.5	11.2	8.0	9.6	5.6														
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.5	81.6	78.5	81.2	80.4	77.1	74.5	72.6	69.4	69.7	70.5	72.7	71.4	71.4	71.2	70.6	69.4	68.9	68.8
250	80.3	79.4	76.3	79.0	78.2	74.9	72.3	70.3	67.3	67.5	68.2	70.4	69.1	69.2	69.0	68.4	67.2	66.7	66.6
315	78.0	77.1	74.0	76.7	75.9	72.6	69.9	68.1	65.1	65.3	66.0	68.1	66.9	66.9	66.7	66.1	64.9	64.5	64.4
400	75.6	74.7	71.7	74.3	73.5	70.2	67.6	65.7	62.9	63.0	63.7	65.7	64.5	64.6	64.4	63.7	62.6	62.2	62.1
500	73.2	72.2	69.3	71.9	71.1	67.8	65.1	63.3	60.6	60.6	61.3	63.2	62.0	62.2	62.0	61.3	60.2	59.9	59.7
630	70.7	69.7	66.8	69.4	68.6	65.3	62.5	60.8	58.2	58.2	58.8	60.6	59.5	59.7	59.5	58.8	57.8	57.5	57.3
800	68.1	67.0	64.2	66.8	66.0	62.7	59.9	58.1	55.8	55.7	56.3	58.0	56.8	57.1	56.9	56.1	55.2	55.0	54.8
1000	65.5	64.3	61.6	64.2	63.2	60.0	57.1	55.4	53.3	53.1	53.7	55.2	54.0	54.3	54.2	53.4	52.6	52.4	52.1
1250	62.7	61.4	58.8	61.4	60.4	57.2	54.2	52.6	50.7	50.4	50.9	52.3	51.0	51.5	51.4	50.6	49.8	49.7	49.4
1600	59.7	58.3	55.9	58.4	57.4	54.3	51.2	49.7	47.9	47.6	48.1	49.4	47.9	48.5	48.5	47.6	47.0	46.9	46.6
2000	56.7	55.2	52.9	55.4	54.3	51.2	48.1	46.7	45.2	44.6	45.3	46.3	44.7	45.4	45.5	44.6	44.0	44.0	43.7
2500	53.4	51.8	49.7	52.1	51.0	48.0	44.8	43.4	41.8	41.3	41.9	42.9	41.2	42.1	42.1	41.3	40.7	40.6	40.6
3150	49.9	48.1	46.4	48.6	47.5	44.5	41.4	39.9	38.2	37.7	38.2	39.2	37.4	38.5	38.4	37.7	37.0	37.1	37.3
4000	46.1	44.2	42.7	44.8	43.7	40.8	37.7	36.0	34.2	33.8	34.1	35.2	33.3	34.6	34.4	33.8	33.1	33.2	33.6
5000	42.0	39.9	38.5	40.7	39.4	36.6	33.5	31.9	29.8	29.6	29.7	30.9	28.9	30.3	30.1	29.6	28.8	29.0	29.6
6300	37.4	35.2	34.0	36.1	34.8	32.1	29.2	27.4	25.2	25.1	25.1	26.3	24.2	25.8	25.5	25.0	24.2	24.4	25.2
8000	32.9	30.6	29.7	31.5	30.0	27.5	24.7	23.2	21.3	20.8	21.0	22.2	20.2	22.0	21.5	20.9	20.2	20.3	21.0
10000	27.9	25.6	25.0	26.5	24.9	22.5	19.9	18.7	17.2	16.4	16.8	17.9	16.0	17.8	17.3	16.5	15.9	15.9	16.5
12500	22.5	20.3	19.9	21.0	19.3	17.1	14.6	13.8	12.8	11.6	12.4	13.4	11.6	13.4	12.9	11.9	11.4	11.2	11.5
16000	16.8	14.8	14.5	15.2	13.3	11.2	8.9	8.7	8.2	6.7	7.7	8.7	7.2	8.8	8.3	7.1	6.7	6.4	6.2
20000	10.8	8.9	8.5	8.7	6.8	5.0	2.9	3.4	3.3	1.7	2.9	3.7	2.7	3.9	3.5	2.2	1.8	1.5	.6
25000	4.5	2.9	2.2	1.9															

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.1	81.6	78.5	81.9	81.8	78.2	75.0	74.0	70.6	71.6	73.8	72.8	72.6	72.0	70.6	70.2	69.9	69.6	
250	80.9	79.4	76.3	79.7	79.6	76.0	73.3	71.7	68.4	68.8	69.3	71.6	70.4	69.8	68.4	68.0	67.7	67.4	
315	78.6	77.1	74.0	77.4	77.3	73.7	71.0	69.4	66.3	65.6	67.1	69.3	68.2	67.5	66.1	65.7	65.5	65.1	
400	76.3	74.7	71.7	75.0	74.9	71.3	68.6	67.1	64.0	64.3	64.8	66.9	66.0	65.8	65.2	63.7	63.4	63.2	62.9
500	73.9	72.2	69.3	72.6	72.5	68.9	66.1	64.7	61.7	62.0	62.4	64.4	63.5	63.4	62.8	61.3	61.0	60.8	60.5
630	71.4	69.7	66.8	70.1	69.9	66.3	63.6	62.1	59.4	59.5	59.9	61.8	60.9	60.3	58.8	58.6	58.4	58.1	
800	68.8	67.0	64.2	67.5	67.3	63.7	60.9	59.5	57.0	57.4	59.1	58.3	58.3	57.7	56.1	56.0	55.9	55.5	
1000	66.1	64.3	61.6	64.9	64.6	61.0	58.2	56.8	54.5	54.4	56.4	55.4	55.6	55.1	53.4	53.4	53.3	52.9	
1250	63.3	61.4	58.8	62.1	61.8	58.2	55.3	54.0	51.8	51.7	52.0	52.5	52.7	52.2	50.6	50.6	50.6	50.2	
1600	60.4	58.3	55.9	59.1	58.8	55.3	52.3	51.1	48.9	48.9	49.2	49.4	49.7	49.3	47.6	47.7	47.3	47.4	
2000	57.3	55.2	52.9	56.1	55.7	52.3	49.2	48.1	46.3	46.0	46.4	46.2	46.6	46.3	44.6	44.8	44.9	44.5	
2500	54.1	51.8	49.7	52.8	52.4	49.0	45.9	44.8	43.0	42.6	43.0	42.6	43.3	42.9	41.3	41.4	41.6	41.4	
3150	50.6	48.1	46.4	49.3	48.9	45.6	42.4	41.2	39.3	39.1	39.3	38.8	39.7	39.2	37.7	37.8	38.0	38.1	
4000	46.7	44.2	42.7	45.4	44.8	41.6	38.5	37.2	35.1	34.9	35.0	34.4	35.6	35.1	33.8	33.7	34.0	34.3	
5000	42.4	39.9	38.5	41.1	40.3	37.3	34.2	32.7	30.5	30.4	31.6	29.8	31.1	30.6	29.6	29.3	29.5	30.1	
6300	37.7	35.2	34.0	36.4	35.4	32.6	29.6	28.0	25.7	25.6	25.5	24.8	26.3	25.8	25.0	24.5	24.8	25.5	
8000	33.0	30.6	29.7	31.6	30.3	27.7	24.9	23.5	21.5	21.1	21.2	20.5	22.2	21.7	20.9	20.3	20.5	21.2	
10000	27.9	25.6	25.0	26.5	24.9	22.5	19.9	18.7	17.2	16.4	16.8	17.9	16.0	17.8	16.5	15.9	15.9	16.5	
12500	22.5	20.3	19.9	21.0	19.3	17.1	14.6	13.8	12.8	12.6	12.4	13.4	11.6	13.4	12.9	11.9	11.4	11.2	11.5
16000	16.8	14.8	14.5	15.2	13.3	11.2	8.9	8.7	8.2	8.7	7.7	8.7	7.2	8.8	8.3	7.1	6.7	6.4	6.2
20000	10.8	8.9	8.5	8.7	6.8	5.0	2.9	3.4	3.3	3.7	2.9	3.7	2.7	3.9	3.5	2.2	1.8	1.5	1.6
25000	4.5	2.9	2.2	1.9															

IDENTIFICATION:  
 ) OMEGA 8.2  
 ) TEST 75-037-001  
 ) RUN 01  
 ) AIRCRAFT CODE 037  
 ) OPERATION CODE 02013  
 ) PROFILE VERSION A  
 ) 06 FFR 76  
 ) PAGE G1

METEOROLOGY:  
 ) TEMP = 59 F  
 ) BAR PRESS = 29.92 IN HG  
 ) REL HUMID = 70 %  
 ) DELTA N = -3.0 DB

OPERATION:  
 ) IDLE, 25% RPM  
 ) SINGLE ENGINE

NOISE SOURCE/SUBJECT:  
 ) A-10A AIRCRAFT  
 ) ENG. TF34-GE-100  
 ) GROUND RUNUP

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 IDENTIFICATION: OMEGA 8.2  
 TEST 75-037-001  
 RUN 01  
 AIRCRAFT CODE 037  
 OPERATION CODE 02013  
 PROFILE VERSION A  
 06 FEB 76  
 PAGE J1  
 METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DB  
 OPERATIONS:  
 IDLE, 25% RPM  
 SINGLE ENGINE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT:  
 A-10A AIRCRAFT  
 ENG. TF34-GE-100  
 GROUND RUNUP

	P=PMLT		A=AAL		T=ALT						
	0	10	20	30	40	50	60	70	80	90	100
A											
N											
G											
L											
E											
I											
N											
D											
E											
G											
R											
E											
S											

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 037																			
A-10A AIRCRAFT ) TEMP = 59 F ) OPERATION CODE 01005																			
ENG. TF34-GE-100 ( MAXIMUM CONTINUOUS POWER ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( 77% RPM ) REL HUMID = 70 % ) 06 FEB 76																			
( SINGLE ENGINE ) DELTA N = 9.0 08 ) PAGE C2																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	71	71	71	73	72	73	76	75	77	78	78	82	82	83	87	93	94	93	73
63	73	74	74	74	75	75	77	78	80	83	82	84	85	86	90	94	95	92	72
80	72	72	73	74	74	75	77	79	78	78	80	81	84	86	90	92	95	91	71
100	74	75	77	76	78	78	80	79	80	81	81	83	86	89	92	94	94	92	72
125	76	77	76	76	76	77	79	79	78	80	80	83	86	87	91	92	90	89	69
160	78	78	75	75	75	75	77	79	78	79	80	83	84	87	89	91	85	84	64
200	78	78	75	76	75	77	77	76	78	80	80	81	84	87	87	86	83	80	60
250	75	76	77	76	76	77	78	78	77	79	78	81	85	86	86	85	84	77	57
315	72	76	76	74	74	73	74	76	76	76	78	79	81	85	83	81	81	73	53
400	73	74	73	73	72	72	72	75	73	75	77	77	78	80	80	77	75	70	50
500	73	74	75	74	72	72	72	74	72	73	74	75	75	78	75	72	71	66	46
630	74	74	75	75	72	73	72	72	72	72	72	73	71	73	71	71	68	65	45
800	74	73	75	75	72	74	72	72	71	71	72	71	67	71	70	73	68	65	45
1000	75	77	77	77	74	75	73	73	72	72	73	72	71	72	71	74	70	68	48
1250	78	75	77	79	74	75	74	74	72	74	74	73	74	74	73	73	70	68	48
1600	78	78	78	82	78	80	78	75	73	76	75	75	77	75	74	73	70	68	48
2000	81	81	81	82	81	81	79	76	75	78	79	77	78	75	74	75	72	69	49
2500	89	88	89	94	92	92	92	89	90	89	97	92	88	88	85	82	81	82	62
3150	87	88	89	93	91	92	91	89	89	89	95	91	89	88	85	84	81	82	62
4000	85	85	85	86	85	86	84	81	80	82	81	81	83	80	77	78	75	75	55
5000	86	86	88	91	87	88	86	83	83	86	87	84	84	81	79	79	76	73	53
6300	83	82	88	89	84	85	83	81	81	84	84	82	82	80	78	79	75	72	52
8000	76	76	79	81	80	83	81	76	78	80	80	84	82	77	75	74	70	68	48
10000	73	72	74	78	75	77	76	72	73	76	76	77	76	73	71	70	66	62	42
OVERALL	95	94	96	99	97	98	97	94	95	96	100	98	97	98	99	101	102	99	79

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNDR)										AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE										METEOROLOGY:										OPERATIONS:										IDENTIFICATION:									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	TEMP	BAR PRESS	REL HUMID	DELTA N	MAXIMUM CONTINUOUS POWER	77% RPM	SINGLE ENGINE	AIRCRAFT	PROFILE VERSION	OPERATION CODE	AIRCRAFT CODE	OPERATION CODE	AIRCRAFT CODE																		
250	111.3	111.0	112.6	115.3	113.3	114.4	111.2	111.5	112.0	116.4	113.7	112.3	111.9	110.4	110.0	107.7	106.9	86.3	59 F	=29.92 IN HG	=70 %	0.0 08	109.2	109.7	109.2	109.2	109.6	108.2	107.7	105.5	104.7	84.0	OMLGA 8.2	TEST 75-037-001	01005	037	01005	037												
315	106.7	106.4	107.9	110.7	108.7	109.7	108.8	106.5	106.9	117.3	111.8	109.1	107.7	107.2	105.9	105.4	103.2	102.4	81.6					104.5	104.8	104.1	104.5	103.8	104.1	103.5	103.0	100.8	79.1																	
400	103.3	103.9	105.4	108.3	106.3	107.2	106.3	104.1	104.5	132.2	106.9	104.1	102.6	102.3	100.9	100.5	98.3	97.4	76.5					101.5	101.9	101.5	101.5	100.8	101.1	100.5	100.5	98.3	94.7	73.8																
500	101.7	101.3	102.9	105.7	103.7	104.5	103.8	101.5	101.9	132.2	104.2	101.5	99.9	99.6	98.3	97.9	95.7	94.7	73.8					99.3	99.3	99.3	99.3	98.6	98.6	98.3	97.9	95.7	94.7	73.8																
630	99.1	98.5	100.0	103.0	101.1	101.8	101.1	98.7	99.3	132.2	101.4	98.6	96.9	96.7	95.4	95.0	92.9	91.9	70.8					96.4	96.4	96.4	96.4	95.6	95.6	95.4	95.0	92.9	91.9	70.8																
800	96.3	95.6	97.1	100.2	98.3	98.8	98.3	95.8	96.4	132.2	98.5	96.6	94.9	94.7	93.3	92.0	89.8	88.8	67.7					93.4	93.4	93.4	93.4	92.6	92.6	92.3	92.0	89.8	88.8	67.7																
1000	93.3	92.5	94.0	97.2	95.2	95.7	95.3	92.7	93.4	132.2	95.6	93.8	93.6	92.3	92.0	89.8	88.8	67.7					90.2	90.2	90.2	90.2	89.4	89.4	89.0	88.6	86.5	85.5	64.2																	
1250	90.0	89.3	90.7	93.9	92.0	92.3	92.0	89.4	90.2	132.2	92.6	90.4	90.3	89.0	88.6	86.5	85.5	64.2					86.6	86.6	86.6	86.6	85.9	85.9	85.4	84.9	82.9	82.0	60.4																	
1600	86.5	85.7	87.2	90.4	88.5	88.8	88.5	85.9	86.7	132.2	88.9	86.6	86.8	85.4	84.9	82.9	82.0	60.4					82.9	82.9	82.9	82.9	82.1	82.1	81.6	80.8	79.0	78.1	56.2																	
2000	82.7	81.9	83.3	86.5	84.6	84.9	84.7	82.1	82.9	132.2	85.0	82.7	83.0	81.6	80.8	79.0	78.1	56.2					80.8	80.8	80.8	80.8	78.4	78.4	77.3	76.5	74.6	73.7	51.3																	
3150	78.4	77.7	79.0	82.3	80.3	80.6	80.4	77.8	78.6	132.2	83.6	80.8	80.8	78.5	78.1	76.5	75.6	54.1					78.8	78.8	78.8	78.8	76.3	76.3	75.5	74.6	72.5	71.7	49.1																	
4000	73.7	72.9	74.3	77.5	75.6	75.8	75.6	73.0	73.8	132.2	82.2	78.9	78.9	76.5	76.2	74.6	73.7	51.3					73.5	73.5	73.5	73.5	71.1	71.1	70.2	69.4	67.3	66.4	45.1																	
5000	68.4	67.6	68.9	72.1	70.1	70.4	70.2	67.5	68.3	132.2	80.2	76.9	76.9	74.5	74.2	72.5	71.7	49.1					68.2	68.2	68.2	68.2	65.8	65.8	64.9	64.2	62.1	61.2	39.7																	
6300	55.4	54.6	55.8	59.1	56.8	57.1	56.8	54.4	54.9	132.2	80.1	76.8	76.8	74.4	74.1	72.4	71.5	49.1					62.2	62.2	62.2	62.2	60.0	60.0	59.1	58.0	56.7	56.0	36.0																	
8000	47.7	46.8	48.1	51.3	48.9	49.4	49.1	46.5	47.1	132.2	80.1	76.8	76.8	74.4	74.1	72.4	71.5	49.1					54.9	54.9	54.9	54.9	52.3	52.3	51.4	50.3	49.4	49.4	28.0																	
10000	39.9	38.9	40.2	41.8	39.1	39.7	39.3	37.9	37.0	132.2	80.0	76.5	76.5	74.1	73.8	72.1	71.2	49.1					54.9	54.9	54.9	54.9	52.3	52.3	51.4	50.3	49.4	49.4	28.0																	
12500	31.5	31.4	33.0	33.1	29.0	30.6	28.9	29.6	27.8	132.2	80.0	76.5	76.5	74.1	73.8	72.1	71.2	49.1					54.9	54.9	54.9	54.9	52.3	52.3	51.4	50.3	49.4	49.4	28.0																	
16000	29.9	21.3	22.9	22.2	17.3	18.1	17.7	19.9	18.3	132.2	80.0	76.5	76.5	74.1	73.8	72.1	71.2	49.1					54.9	54.9	54.9	54.9	52.3	52.3	51.4	50.3	49.4	49.4	28.0																	
20000	6.8	7.4	9.1	8.2	5.6	5.6	6.6	7.4	4.1	132.2	80.0	76.5	76.5	74.1	73.8	72.1	71.2	49.1					54.9	54.9	54.9	54.9	52.3	52.3	51.4	50.3	49.4	49.4	28.0																	
25000										132.2	80.0	76.5	76.5	74.1	73.8	72.1	71.2	49.1					54.9	54.9	54.9	54.9	52.3	52.3	51.4	50.3	49.4	49.4	28.0																	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY																		
	TEMP = 59 F																		
A-10A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. TF34-GE-100	DELTA N = 0.0 DB																		
	PAGE E2																		
GROUND RUNUP	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	112.9	112.1	114.0	117.5	115.6	116.5	115.9	113.6	114.3	113.9	119.7	116.4	114.1	114.3	112.7	111.5	109.5	109.4	88.8
250	110.7	109.8	111.6	115.3	113.3	114.2	113.6	111.4	112.0	111.6	117.4	114.1	111.8	112.0	110.4	109.3	107.2	107.1	86.5
315	108.3	107.4	109.3	112.9	110.9	111.8	111.3	109.0	109.7	109.2	115.1	111.8	109.4	109.7	108.1	107.0	104.9	104.9	84.1
400	105.9	104.9	106.8	110.5	108.5	109.3	108.8	106.5	107.3	106.7	112.7	109.4	106.9	107.3	105.7	104.6	102.6	102.5	81.6
500	103.4	102.3	104.1	107.9	106.0	106.7	106.3	103.9	104.7	104.1	110.2	106.8	104.4	104.7	103.2	102.1	100.1	99.9	79.0
630	100.7	99.6	101.4	105.3	103.3	103.9	103.6	101.2	102.1	101.3	107.5	104.1	101.6	102.0	100.5	99.4	97.5	97.2	76.3
800	97.9	96.7	98.4	102.4	100.5	100.9	100.8	98.3	99.2	98.4	104.7	101.4	98.7	99.2	97.6	96.6	94.6	94.4	73.3
1000	94.9	93.6	95.4	99.4	97.4	97.8	97.8	95.1	96.2	95.4	101.7	98.3	95.5	96.0	94.6	93.5	91.6	91.3	70.2
1250	91.6	90.3	92.1	96.1	94.2	94.5	94.5	91.8	93.0	92.1	98.5	95.1	92.1	92.8	91.2	90.1	88.2	88.0	66.7
1600	88.1	86.8	88.5	92.6	90.7	90.9	91.0	88.3	89.5	88.5	95.0	91.6	88.4	89.2	87.6	86.4	84.7	84.5	62.9
2000	84.3	83.0	84.7	88.8	86.8	87.0	87.2	84.5	85.7	84.7	91.2	87.8	84.5	85.4	83.8	82.4	80.8	80.6	58.7
2500	80.0	78.7	80.4	84.5	82.6	82.7	82.9	80.3	81.4	80.4	87.0	83.5	80.2	81.2	79.5	78.0	76.4	76.2	53.8
3150	75.3	74.0	75.6	79.7	77.8	77.9	78.1	75.5	76.6	75.5	82.2	78.7	75.3	76.4	74.7	73.2	71.6	71.4	47.6
4000	69.6	68.4	70.0	73.9	71.9	72.1	72.2	69.5	70.6	69.7	76.1	72.7	69.5	70.4	68.8	67.4	65.7	65.2	38.7
5000	63.3	62.2	63.6	67.4	65.4	65.6	65.6	63.0	63.9	63.1	69.2	66.0	63.0	63.9	62.2	61.0	59.1	58.2	27.5
6300	56.1	55.0	56.4	60.0	57.7	58.0	57.9	55.4	56.4	55.6	61.4	58.4	55.5	56.5	54.7	53.7	51.4	50.4	15.2
8000	48.0	47.0	48.4	51.8	49.4	49.8	49.6	47.0	47.7	47.5	52.9	50.2	47.7	49.2	47.7	47.0	44.6	42.1	2.8
10000	38.9	38.9	40.2	41.8	39.1	39.7	39.3	37.9	37.0	38.0	42.8	40.4	40.4	43.2	41.6	40.8	38.3	31.3	
12500	31.5	31.4	33.0	33.1	29.0	30.6	28.9	29.6	27.8	30.4	31.2	32.4	32.7	36.7	34.9	34.0	31.0	18.9	
16000	20.9	21.3	22.9	22.2	17.3	18.1	17.7	19.9	15.9	18.3	21.4	22.7	23.7	29.3	28.0	25.9	20.8	8.4	
20000	6.8	7.4	9.1	8.2	5.6	5.6	6.6	7.4	4.1	6.1	7.9	12.0	12.0	18.5	15.8	11.9	7.3		
25000											1.3	1.3	3.4	7.8	3.5				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)										IDENTIFICATION:									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	>180
200	97.5	97.0	98.9	102.0	99.6	100.5	99.5	96.6	97.4	97.5	103.1	99.4	96.9	96.1	94.0	93.1	90.6	90.3	70.3	
250	95.2	94.7	96.5	99.7	97.3	98.2	97.2	94.3	95.1	95.2	100.8	97.1	94.6	93.8	91.7	90.0	88.4	88.1	68.1	
315	92.8	92.3	94.1	97.3	94.9	95.8	94.8	91.0	92.7	92.8	98.5	94.7	92.2	91.5	89.4	88.5	86.1	85.8	65.8	
400	90.3	89.8	91.6	94.8	92.5	93.3	92.4	89.5	90.3	90.3	96.1	92.3	89.7	89.1	87.1	86.2	83.8	83.4	63.4	
500	87.8	87.3	88.9	92.2	89.9	90.7	89.8	87.0	87.7	87.7	93.6	89.7	87.1	86.6	84.6	83.7	81.4	81.0	61.0	
630	85.1	84.6	86.2	89.5	87.3	88.0	87.2	84.3	85.1	85.0	91.0	87.1	84.4	83.9	82.0	81.1	78.8	78.4	58.4	
800	82.2	81.7	83.2	86.6	84.4	85.1	84.3	81.5	82.3	82.1	88.2	84.3	81.6	81.2	79.3	78.4	76.2	75.7	55.7	
1000	79.2	78.7	81.2	83.6	81.4	82.1	81.4	79.5	79.3	79.1	85.2	81.3	79.6	78.3	75.5	75.5	73.4	72.7	52.7	
1250	76.1	75.5	76.9	80.4	78.2	78.8	78.2	75.3	76.1	75.8	82.1	78.1	75.4	75.2	73.3	72.4	70.3	69.6	49.6	
1600	72.7	72.0	73.4	76.9	74.8	75.3	74.7	71.9	72.7	72.3	78.6	74.7	71.9	71.8	70.0	69.1	67.0	66.2	46.2	
2000	69.0	68.4	69.7	73.1	71.0	71.5	70.9	68.1	68.9	68.6	74.8	71.0	68.2	68.2	66.5	65.6	63.5	62.5	42.5	
2500	65.1	64.4	65.7	69.0	66.9	67.3	66.8	64.1	64.8	64.5	70.6	66.8	64.1	64.3	62.5	61.7	59.6	58.5	38.5	
3150	60.9	60.2	61.4	64.5	62.3	62.8	62.3	59.6	60.2	60.0	65.9	62.2	59.7	60.0	58.2	57.6	55.3	54.0	34.0	
4000	56.4	55.7	56.8	59.6	57.3	57.8	57.2	54.8	55.2	55.1	60.5	57.1	54.8	55.2	53.5	53.1	50.7	49.1	29.1	
5000	51.5	50.8	51.9	54.3	51.7	52.3	51.7	49.5	49.7	49.8	54.5	51.5	49.6	50.2	48.6	48.5	45.9	44.0	24.0	
6300	46.4	45.7	46.7	48.6	45.7	46.5	45.7	44.0	43.8	44.2	47.9	45.4	44.0	44.9	43.4	43.8	41.0	38.7	18.7	
8000	41.3	40.8	41.7	43.0	39.8	40.8	39.9	38.9	38.3	38.9	41.2	39.8	39.1	40.5	39.2	39.6	37.1	34.3	14.3	
10000	36.0	35.7	36.6	37.3	34.1	35.2	34.2	33.9	33.1	33.8	35.0	34.7	34.4	36.3	35.2	35.5	33.3	30.2	10.2	
12500	30.6	30.4	31.3	31.6	28.6	29.7	28.8	28.9	28.0	28.8	29.5	29.9	29.8	32.1	31.2	31.4	29.7	26.5	6.5	
16000	24.9	24.8	25.7	25.7	23.0	24.0	23.3	23.3	22.9	23.6	24.3	25.1	25.4	27.8	27.2	27.4	26.2	23.1	3.1	
20000	18.8	19.0	19.7	19.5	17.2	18.0	17.7	18.3	17.5	18.4	19.0	20.1	20.9	23.4	23.3	23.6	22.9	19.9		
25000	12.4	12.9	13.3	13.0	11.2	11.8	11.9	12.8	11.9	13.0	13.6	15.1	16.3	18.8	19.3	20.0	19.7	16.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: A-10A AIRCRAFT  
ENG. TF34-GE-100  
GROUND RUNUP

OPERATION: MAXIMUM CONTINUOUS POWER  
77% RPM  
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
BAR PRESS = 29.92 IN HG  
REL HUMID = 70 %  
DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 8.2  
TEST 75-037-001  
RUN 02  
AIRCRAFT CODE 037  
OPERATION CODE 01005  
PROFILE VERSION A  
06 FEB 76  
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>190
200	99.1	98.1	100.2	104.2	101.8	102.6	102.0	99.1	103.2	99.4	106.4	102.1	98.6	98.5	96.2	94.6	92.4	92.8	72.8
250	96.8	95.8	97.9	101.9	99.5	100.3	99.7	96.8	97.9	97.1	104.1	99.8	95.3	96.2	94.0	92.4	90.2	90.6	70.6
315	94.4	93.4	95.5	99.5	97.1	97.9	97.3	94.4	95.5	94.7	101.8	97.4	93.9	93.9	91.7	90.1	87.9	88.3	68.3
400	91.9	90.9	92.9	97.0	94.7	95.4	94.9	92.0	93.1	92.2	99.4	95.0	91.5	91.5	89.3	87.7	85.5	85.9	65.9
500	89.4	88.3	90.3	94.4	92.1	92.8	92.3	89.4	90.5	89.6	96.9	92.4	88.9	89.0	86.8	85.2	83.1	83.5	63.5
630	86.7	85.6	87.5	91.7	89.5	90.1	89.7	86.8	87.9	86.9	94.2	89.8	86.2	86.4	84.2	82.6	80.6	80.9	60.9
800	83.8	82.8	84.6	88.9	86.6	87.2	86.8	84.0	85.1	84.0	91.5	87.0	83.3	83.7	81.5	79.9	78.0	78.1	58.1
1000	80.9	79.7	81.5	85.8	83.6	84.2	83.9	81.0	82.1	81.0	88.5	84.3	80.3	80.8	78.6	77.0	75.2	75.2	55.2
1250	77.7	76.5	78.3	82.6	80.4	80.9	80.7	77.8	78.9	77.7	85.3	80.3	77.1	77.6	75.5	73.9	72.1	72.1	52.1
1600	74.3	73.1	74.8	79.1	77.0	77.4	77.2	74.3	75.5	74.2	81.9	77.4	73.7	74.3	72.2	70.6	68.8	68.7	48.7
2000	70.6	69.4	71.0	75.3	73.2	73.6	73.4	70.6	71.7	70.5	78.1	73.7	69.9	70.7	68.7	67.1	65.3	65.0	45.0
2500	66.7	65.5	67.0	71.2	69.1	69.4	69.3	66.5	67.6	66.4	73.8	69.5	65.9	66.8	64.8	63.3	61.4	61.0	41.0
3150	62.5	61.3	62.8	66.7	64.5	64.9	64.8	62.1	63.0	61.9	69.1	64.9	61.4	62.4	60.5	59.1	57.1	56.5	36.5
4000	57.7	56.5	57.9	61.4	59.0	59.5	59.2	56.7	57.5	56.6	63.2	59.3	56.2	57.2	55.3	54.4	52.1	51.1	31.1
5000	52.5	51.5	52.7	55.6	53.0	53.6	53.2	51.0	51.4	50.9	56.5	53.1	50.6	51.6	49.9	49.5	47.0	45.5	25.5
6300	47.0	46.2	47.2	49.5	46.6	47.4	46.7	45.0	44.9	44.9	49.2	46.5	44.7	45.3	44.3	44.4	41.7	39.7	19.7
8000	41.6	41.0	41.9	43.4	40.3	41.3	40.4	39.4	38.9	39.3	41.9	40.4	39.4	41.0	39.7	39.9	37.4	34.8	14.8
10000	36.0	35.7	36.6	37.3	34.1	35.2	34.2	33.9	33.1	33.8	35.0	34.7	34.4	36.3	35.2	35.5	33.3	30.2	10.2
12500	30.6	30.4	31.3	31.6	28.6	29.7	28.8	28.9	28.0	28.8	29.5	29.9	29.8	32.1	31.2	31.4	29.7	26.5	6.5
16000	24.9	24.8	25.7	25.7	23.0	24.0	23.3	23.7	22.9	23.6	24.3	25.1	25.4	27.8	27.2	27.4	26.2	23.1	3.1
20000	18.8	19.0	19.7	19.5	17.2	18.0	17.7	18.3	17.5	18.4	19.0	20.1	20.9	23.4	23.3	23.6	22.9	19.9	
25000	12.4	12.8	13.3	13.0	11.2	11.8	11.9	12.8	11.9	13.0	13.6	15.1	16.3	18.8	19.3	20.0	19.7	16.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( DISTANCE = 250 FEET  
 ( NOISE SOURCE/SUBJECT#  
 ( A-10A AIRCRAFT  
 ( ENG. TF34-GE-100  
 ( GROUND RUNUP  
 ( OPERATIONS  
 ( MAXIMUM CONTINUOUS POWER  
 ( 77% RPM  
 ( SINGLE ENGINE  
 ( METEOROLOGY:  
 ( TEMP = 59 F  
 ( BAR PRESS = 29.92 IN HG  
 ( REL HUMID = 70 %  
 ( DELTA N = 0.0 DB  
 ( IDENTIFICATION:  
 ( OMEGA 8.2  
 ( TEST 75-037-001  
 ( RUN 02  
 ( AIRCRAFT CODE 037  
 ( OPERATION CODE 01005  
 ( PROFILE VERSION A  
 ( 06 FEB 76  
 ( PAGE J2

ANGLE	PEPNLT		A=AL		T=ALT	
	60	90	60	90	60	90
0	.	.	.	.	.	.
10	.	.	.	.	.	.
20	.	.	.	.	.	.
30	.	.	.	.	.	.
40	.	.	.	.	.	.
50	.	.	.	.	.	.
60	.	.	.	.	.	.
70	.	.	.	.	.	.
80	.	.	.	.	.	.
90	.	.	.	.	.	.
100	.	.	.	.	.	.
110	.	.	.	.	.	.
120	.	.	.	.	.	.
130	.	.	.	.	.	.
140	.	.	.	.	.	.
150	.	.	.	.	.	.
160	.	.	.	.	.	.
170	.	.	.	.	.	.
>180	.	.	.	.	.	.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 8.2																	
DISTANCE = 250 FEET		TEST 75-037-001																	
NOISE SOURCE/SUBJECT:		RUN 03																	
A-10A AIRCRAFT		AIRCRAFT CODE 037																	
ENG. TF34-GE-100		OPERATION CODE 01030																	
GROUND RUNUP		PROFILE VERSION A																	
		06 FEB 76																	
		PAGE C3																	
		METEOROLOGY:																	
		TEMP = 59 F																	
		BAR PRESS = 29.92 IN HG																	
		REL HUMID = 70 %																	
		DELTA N = 0.0 DB																	
BAND CENTER		ANGLE (DEGREES)																	
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	72	72	73	74	75	75	77	77	78	80	81	83	85	88	92	96	100	95	75
63	74	76	74	75	75	78	79	80	81	83	83	85	87	88	94	97	101	94	74
80	74	75	77	76	77	79	80	81	82	83	83	86	87	91	94	97	101	94	74
100	78	78	80	79	81	82	83	83	83	85	85	86	89	92	97	97	101	94	74
125	80	82	80	79	79	80	82	81	82	83	84	88	90	92	96	97	94	91	71
160	81	83	80	79	78	79	80	81	82	83	84	86	90	92	95	97	91	87	67
200	80	81	79	79	78	80	80	80	80	82	85	86	89	92	94	93	91	83	63
250	77	80	81	78	79	79	81	80	80	82	84	85	89	90	91	90	90	82	62
315	75	79	80	78	78	77	78	80	78	79	83	84	88	89	89	88	86	77	57
400	76	79	78	76	77	75	77	78	75	78	80	81	84	85	85	84	82	74	54
500	74	76	77	77	76	76	76	77	75	76	78	79	81	81	80	78	78	71	51
630	75	76	77	77	75	76	77	77	74	76	77	79	79	77	78	75	75	73	53
800	75	76	78	77	77	79	79	77	75	77	80	80	76	78	81	75	75	71	51
1000	76	77	80	81	80	83	83	80	78	80	81	82	80	80	82	79	78	72	52
1250	79	83	82	81	82	84	88	84	82	83	83	82	82	84	82	79	79	75	55
1600	78	80	82	83	82	83	83	82	79	82	82	80	81	80	80	77	77	75	55
2000	79	80	80	85	85	86	85	82	82	83	83	80	80	82	80	81	77	76	56
2500	85	85	85	89	86	88	86	85	83	86	86	85	82	81	82	79	80	78	58
3150	92	92	91	98	93	99	97	95	94	98	99	97	92	88	91	87	86	87	67
4000	84	84	84	88	87	90	91	88	84	85	86	85	83	82	82	80	79	76	56
5000	83	82	83	86	84	85	85	83	81	83	83	81	79	79	78	75	74	73	53
6300	83	83	83	87	85	87	86	85	85	86	86	85	84	82	82	79	78	73	53
8000	77	77	76	80	79	80	79	78	76	78	79	77	76	74	74	71	71	66	46
10000	75	75	72	78	77	78	78	76	75	79	78	79	76	74	73	70	69	64	44
OVERALL	96	96	96	100	97	101	100	98	97	100	101	100	100	101	104	105	107	101	81

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	MAXIMUM POWER, 84% RPM																			
A-10A AIRCRAFT	TEMP = 59 F																			
ENG. TF34-GE-100	BAR PRESS = 29.92 IN HG																			
GROUND RUNUP	REL HUMID = 70 %																			
	DELTA N = 0.0 DB																			
	METEOROLOGY:																			
	AIRCRAFT CODE 037																			
	OPERATION CODE 01030																			
	PROFILE VERSION A																			
	06 FEB 76																			
	PAGE 03																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 75-037-001																				
RUN 03																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	113.5	113.9	117.4	118.0	114.6	118.7	118.1	116.2	115.0	117.7	118.0	117.7	114.8	113.6	115.2	113.2	112.5	110.3	89.9	
250	111.2	111.6	111.1	115.7	112.3	116.4	115.6	113.9	112.8	115.4	116.5	115.4	112.5	111.3	113.0	111.0	110.3	108.1	87.6	
315	106.4	109.3	108.8	113.3	109.9	114.0	113.4	111.6	110.4	113.1	114.1	113.0	110.2	109.0	110.7	108.7	106.1	105.8	85.2	
400	106.4	106.8	106.3	110.8	107.5	111.6	110.9	109.1	107.9	110.6	111.7	110.6	107.8	106.6	108.3	106.4	105.8	103.4	82.7	
500	103.8	104.2	103.8	108.3	104.9	109.0	108.4	106.5	105.4	108.0	109.1	108.1	105.2	104.1	105.8	103.9	103.3	100.9	80.1	
630	101.0	101.5	101.0	105.5	102.2	106.3	105.6	103.8	102.6	105.3	106.4	105.4	102.6	101.5	103.2	101.3	100.8	98.3	77.4	
800	98.1	98.6	98.2	102.6	99.3	103.3	102.7	100.9	99.7	102.4	103.5	102.5	99.7	98.7	100.4	98.6	98.1	95.5	74.6	
1000	95.0	95.5	95.1	99.5	96.1	100.2	99.6	97.8	96.6	99.3	100.4	99.4	96.7	95.6	97.4	95.6	95.2	92.4	71.5	
1250	91.6	92.1	91.7	96.1	92.7	96.8	96.2	94.4	93.2	95.9	97.0	96.0	93.3	92.3	94.1	92.4	91.9	89.1	68.1	
1600	87.8	88.4	88.0	92.4	89.0	93.1	92.5	90.7	89.5	92.2	93.3	92.3	89.7	88.7	90.5	88.7	88.4	85.4	64.2	
2000	83.8	84.4	84.0	88.3	85.0	89.0	88.5	86.7	85.4	88.1	89.2	88.3	85.7	84.7	86.5	84.7	84.3	81.4	59.9	
2500	79.2	79.8	79.5	83.7	80.4	84.4	83.9	82.1	80.9	83.5	84.7	83.7	81.2	80.3	82.0	80.2	79.7	76.8	54.8	
3150	74.0	74.7	74.4	78.5	75.3	79.2	78.8	77.0	75.7	78.4	79.5	78.6	76.2	75.3	77.0	75.1	74.6	71.7	48.9	
4000	68.1	68.9	68.7	72.6	69.5	73.3	72.9	71.1	69.7	72.4	73.6	72.7	70.4	69.8	71.3	69.3	68.0	65.0	40.9	
5000	61.5	62.4	62.3	65.9	63.2	66.6	66.3	64.5	63.1	65.7	66.9	66.1	64.0	64.7	65.1	63.8	63.1	59.1	31.5	
6300	54.0	56.4	56.4	58.3	56.9	59.0	59.0	57.8	55.7	58.1	59.4	58.8	58.0	59.2	59.4	57.6	57.4	51.9	15.7	
8000	47.4	50.7	50.5	51.3	50.4	52.5	54.7	51.9	49.8	51.6	52.6	52.6	53.1	54.1	54.5	52.7	52.2	45.9		
10000	40.5	43.9	43.5	44.2	43.3	46.0	48.2	45.1	42.6	44.5	46.1	46.7	47.8	48.2	49.2	47.7	47.2	39.9		
12500	32.7	35.2	36.3	36.0	35.1	37.7	39.9	36.8	34.3	35.8	38.6	39.7	41.9	42.6	43.6	42.5	42.1	31.9		
16000	22.7	27.4	28.7	27.4	26.6	27.9	30.2	28.5	25.3	27.0	31.3	32.1	35.5	36.5	37.9	36.4	36.4	20.8		
20000	11.4	15.3	17.3	14.3	13.9	15.3	17.7	15.8	10.0	14.2	20.7	21.1	27.2	28.6	30.6	28.7	29.3	7.7		
25000	.2	3.2	5.9	1.3	1.2	2.7	5.2	3.2		1.4	10.1	10.1	15.4	17.2	21.5	19.8	17.9			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)																	IDENTIFICATION: OMEGA 8.2 TEST 75-037-001 RUN 03 AIRCRAFT CODE 037 OPERATION CODE 01330 PROFILE VERSION A 06 FEB 76 PAGE E3	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160		170
200	116.1	116.5	115.6	121.2	116.6	122.0	120.9	119.2	118.6	121.7	123.0	121.6	117.8	115.9	118.1	115.8	114.8	113.8	93.3
250	113.8	114.2	113.3	118.9	114.3	119.7	116.6	116.9	116.3	119.4	120.8	119.4	115.6	113.7	115.8	113.6	112.6	111.5	91.0
315	111.4	111.9	110.9	116.5	111.9	117.3	116.2	114.5	113.9	117.0	118.4	117.0	113.2	111.4	113.5	111.3	110.4	109.2	88.6
400	108.9	109.4	108.5	114.1	109.4	114.9	113.8	112.1	111.4	114.6	115.9	114.5	110.8	109.0	111.2	109.0	108.1	106.9	86.2
500	106.3	106.8	105.9	111.5	106.8	112.3	111.2	109.5	108.9	112.0	113.4	112.0	108.3	106.5	108.7	106.5	105.6	104.4	83.6
630	103.6	104.1	103.2	108.8	104.1	109.5	108.5	106.8	106.1	109.3	110.7	109.3	105.6	103.8	106.1	103.9	103.1	101.8	80.9
800	100.7	101.2	100.3	105.8	101.2	106.6	105.6	103.9	103.2	106.4	107.8	106.4	102.8	101.0	103.3	101.2	100.4	98.9	78.0
1000	97.5	98.1	97.2	102.7	98.1	103.5	102.4	100.8	100.1	103.3	104.7	103.3	99.7	98.0	100.3	98.2	97.5	95.9	74.9
1250	94.1	94.7	93.9	99.3	94.7	100.1	99.1	97.4	96.7	99.9	101.3	100.0	96.4	94.7	97.0	95.0	94.2	92.6	71.5
1600	90.4	91.0	90.2	95.6	91.0	96.4	95.4	93.7	93.0	96.2	97.6	96.3	92.7	91.1	93.4	91.3	90.7	88.9	67.7
2000	86.3	87.0	86.2	91.5	86.9	92.3	91.3	89.6	89.0	92.1	93.5	92.2	88.7	87.1	89.4	87.3	86.6	84.8	63.3
2500	81.7	82.4	81.7	86.9	82.4	87.7	86.7	85.1	84.4	87.5	88.9	87.7	84.2	82.7	84.9	82.8	82.0	80.3	58.3
3150	76.6	77.3	75.6	81.7	77.3	82.5	81.6	79.9	79.2	82.3	83.8	82.6	79.2	77.7	79.9	77.7	76.9	75.2	52.4
4000	70.1	71.0	70.4	75.1	71.0	75.9	75.2	73.4	72.6	75.6	77.0	75.9	72.8	71.7	73.6	71.4	70.7	68.6	43.7
5000	63.1	63.9	63.5	67.8	64.3	68.6	68.0	66.3	65.2	68.1	69.5	68.5	65.8	66.1	66.8	65.3	64.5	61.2	33.6
6300	55.0	57.5	57.3	59.6	57.7	60.4	61.5	59.0	57.1	59.7	61.1	60.4	59.2	60.2	60.6	58.7	58.3	53.2	17.1
8000	47.9	51.2	50.9	52.0	50.8	53.2	55.3	52.5	50.5	52.4	53.5	53.4	53.7	54.6	55.1	53.2	52.7	46.6	.6
10000	40.5	43.9	43.5	44.2	43.3	46.0	48.2	45.1	42.6	44.5	46.1	46.7	47.8	48.2	49.2	47.7	47.2	39.9	
12500	32.7	35.2	36.3	36.0	35.1	37.7	39.5	36.8	34.3	35.8	38.6	39.7	41.9	42.6	43.6	42.5	42.1	31.9	
16000	22.7	27.4	28.7	27.4	26.6	27.9	30.2	28.5	25.3	27.0	31.3	32.1	35.5	36.5	37.9	36.4	36.4	20.8	
20000	11.4	15.3	17.3	14.3	13.9	15.3	17.7	15.8	10.0	14.2	20.7	21.1	27.2	28.6	30.6	28.7	29.3	7.7	
25000	.2	3.2	5.9	1.3	1.2	2.7	5.2	3.2		1.4	10.1	10.1	15.4	17.2	21.5	19.8	17.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT#	METEOROLOGY:																	
	TEMP = 59 F																	
A-10A AIRCRAFT	BAR PRESS = 29.92 IN HG																	
	REL HUMID = 70 %																	
ENG. TF34-GE-100	DELTA N = 0.0 DB																	
	OPERATIONS:																	
GROUND RUNUP	MAXIMUM POWER, 84% RPM																	
	SINGLE ENGINE																	
DISTANCE (FEET)	ANGLE (DEGREES)																	
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	98.4	96.0	103.0	93.5	103.7	103.0	100.8	99.5	102.3	103.3	101.8	98.2	97.1	98.2	96.1	95.1	92.8	72.8
250	95.8	95.7	100.7	97.2	101.4	100.8	98.5	97.2	100.0	101.0	99.5	95.9	94.9	96.0	93.9	92.9	90.6	70.6
315	93.4	93.4	98.3	94.8	99.1	98.4	96.2	94.8	97.7	98.7	97.2	93.6	92.6	93.7	91.7	90.7	88.3	68.3
400	91.3	91.0	95.8	92.4	96.6	95.9	93.7	92.4	95.2	96.2	94.7	91.2	90.3	91.4	89.5	88.4	86.0	66.0
500	88.4	88.4	93.3	89.8	94.3	93.4	91.2	89.8	92.6	93.7	92.2	88.7	87.9	89.0	87.1	86.1	83.5	63.5
630	85.7	86.1	90.6	87.1	91.3	90.7	88.5	87.1	90.0	91.0	89.5	85.2	85.4	86.4	84.6	83.6	80.9	60.9
800	83.3	83.0	87.7	84.3	88.5	87.9	85.6	84.3	87.1	88.1	86.7	83.4	82.8	83.8	82.0	81.1	78.2	58.2
1000	79.8	80.3	84.7	81.3	85.4	84.9	82.6	81.2	84.1	85.1	83.7	80.6	80.1	81.0	79.2	78.4	75.3	55.3
1250	76.5	77.0	81.4	78.1	82.1	81.6	79.4	78.0	80.9	81.8	80.5	77.6	77.2	78.0	76.2	75.4	72.2	52.2
1600	73.0	73.7	77.8	74.8	78.5	78.2	75.9	74.5	77.2	78.3	77.0	74.3	74.1	74.9	73.1	72.3	68.9	48.9
2000	69.3	70.2	73.9	71.1	74.8	74.5	72.2	70.7	73.4	74.4	73.2	71.0	70.9	71.5	69.7	68.9	65.3	45.3
2500	65.2	66.3	69.7	67.3	70.6	70.6	68.2	66.7	69.1	70.2	69.1	67.3	67.4	67.9	65.9	65.2	61.4	41.4
3150	60.9	62.2	65.2	63.2	66.1	66.4	64.0	62.3	64.6	65.6	64.7	63.3	63.6	64.0	61.8	61.2	57.2	37.2
4000	56.3	57.9	58.4	58.8	61.4	62.1	59.5	57.7	59.8	60.7	60.1	59.1	59.5	59.8	57.4	56.8	52.7	32.7
5000	51.5	53.3	54.0	55.2	56.6	57.6	54.9	53.0	54.7	55.7	55.4	54.9	55.2	55.5	52.9	52.4	48.0	28.0
6300	46.5	48.5	49.3	50.0	51.6	52.8	50.0	48.0	49.6	50.7	50.5	49.9	50.6	50.9	48.2	47.8	43.2	23.2
8000	41.7	43.7	44.7	44.4	46.5	47.9	45.2	43.2	44.7	45.9	45.9	45.6	46.3	46.8	44.2	43.9	38.9	18.9
10000	36.8	38.7	39.6	39.2	41.2	42.6	40.0	38.0	39.5	40.9	41.2	41.1	41.8	42.4	40.2	40.0	34.7	14.7
12500	31.6	33.2	34.4	33.6	35.5	36.7	34.5	32.6	34.0	35.7	36.1	36.5	37.1	38.0	36.2	36.1	30.5	10.5
16000	26.0	27.7	28.7	28.3	29.2	30.4	28.7	26.8	28.2	30.1	30.7	31.7	32.3	33.4	32.3	32.4	26.6	6.6
20000	23.2	21.8	22.7	22.1	21.6	23.6	22.6	20.9	22.3	24.3	25.2	26.8	27.6	29.0	28.5	29.0	22.9	2.9
25000	14.1	15.9	16.4	15.6	15.2	16.8	16.4	15.0	16.4	18.5	19.5	21.9	23.0	24.7	24.9	25.6	19.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D9A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
A-10A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. TF34-GE-100	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 0.0 DB																		
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 75-037-001																			
RUN 03																			
AIRCRAFT CODE 037																			
OPERATION CODE 01030																			
PROFILE VERSION A																			
06 FEB 76																			
PAGE G3																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	100.7	101.0	100.2	106.2	101.4	107.0	105.9	103.8	103.0	106.3	107.6	105.8	101.2	99.4	101.0	98.7	97.4	96.3	76.3
250	98.4	98.7	97.9	103.9	99.1	104.7	103.6	101.5	100.7	104.0	105.3	103.5	99.0	97.2	98.8	96.5	95.2	94.1	74.1
315	96.0	96.3	95.5	101.5	96.8	102.3	101.2	99.1	98.3	101.6	102.9	101.1	96.6	95.0	96.6	94.3	93.0	91.8	71.8
400	93.5	93.9	93.1	99.1	94.3	99.9	98.8	96.7	95.9	99.2	100.5	98.7	94.3	92.7	94.2	92.1	90.7	89.4	69.4
500	90.9	91.4	90.6	96.5	91.7	97.3	96.2	94.1	93.3	96.6	97.9	96.1	91.8	90.3	91.8	89.7	88.4	87.0	67.0
630	88.2	88.7	87.9	93.8	89.1	94.6	93.5	91.4	90.6	93.9	95.3	93.5	89.2	87.8	89.3	87.2	85.9	84.4	64.4
800	85.4	85.9	85.2	90.9	86.3	91.8	90.7	88.6	87.8	91.1	92.4	90.7	86.5	85.2	86.7	84.6	83.4	81.7	61.7
1000	82.3	82.9	82.2	87.9	83.3	88.7	87.7	85.6	84.8	88.0	89.4	87.7	83.6	82.5	83.9	81.8	80.7	78.8	58.8
1250	79.1	79.6	79.1	84.6	80.1	85.4	84.5	82.3	81.5	84.8	86.1	84.4	80.6	79.6	80.9	78.8	77.7	75.7	55.7
1600	75.6	76.4	75.8	81.0	76.7	81.9	81.0	78.9	78.0	81.2	82.5	80.9	77.4	76.5	77.7	75.7	74.6	72.3	52.3
2000	71.8	72.8	72.3	77.2	73.1	78.0	77.3	75.2	74.3	77.3	78.7	77.2	74.0	73.3	74.4	72.3	71.2	68.7	48.7
2500	67.8	68.9	68.6	73.0	69.2	73.9	73.4	71.2	70.2	73.1	74.4	73.1	70.3	69.8	70.8	68.5	67.5	64.8	44.8
3150	63.4	64.8	64.7	68.4	65.1	69.4	69.2	66.9	65.8	68.6	69.8	68.7	66.3	66.0	66.9	64.4	63.5	60.6	40.5
4000	59.3	60.0	60.1	62.9	60.4	64.1	64.3	61.9	60.5	62.9	64.2	63.3	61.5	61.4	62.1	59.5	58.7	55.4	35.4
5000	53.0	54.9	55.3	57.1	55.3	58.5	59.3	56.6	55.1	57.1	59.3	57.7	56.4	56.6	57.2	54.4	53.6	50.1	30.1
6300	47.5	49.5	50.2	51.2	50.1	52.9	54.0	51.2	49.4	51.2	52.4	52.1	51.1	51.5	52.0	49.2	48.7	44.5	24.5
8000	42.2	44.2	45.1	45.5	44.8	47.2	48.5	45.8	43.9	45.4	46.7	46.7	46.2	46.8	47.3	44.7	44.3	39.6	19.6
10000	36.8	38.7	39.7	39.6	39.2	41.2	42.6	40.0	38.0	39.5	40.9	41.2	41.1	41.8	42.4	40.2	40.0	34.7	14.7
12500	31.6	33.3	34.4	34.1	33.6	35.5	36.7	34.5	32.6	34.0	35.7	36.1	36.5	37.1	38.0	36.2	36.1	30.5	10.5
16000	26.0	27.7	28.7	28.3	27.8	29.2	30.4	28.7	26.8	28.2	30.1	30.7	31.7	32.3	33.4	32.3	32.4	26.6	6.6
20000	20.2	21.8	22.7	22.1	21.6	22.6	23.6	22.6	20.9	22.3	24.3	25.2	26.8	27.6	29.0	28.5	29.0	22.9	2.9
25000	14.1	15.9	16.4	15.6	15.2	15.7	16.8	16.4	15.0	16.4	18.5	19.5	21.9	23.0	24.7	24.9	25.6	15.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT:  
 A-10A AIRCRAFT  
 ENG. TF34-GE-100  
 GROUND RUNUP  
 IDENTIFICATION:  
 OMEGA 8.2  
 TEST 75-037-001  
 RUN 03  
 AIRCRAFT CODE 037  
 OPERATION CODE 01030  
 PROFILE VERSION A  
 06 FEB 76  
 PAGE JJ  
 METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DR

ANGLE	P=PNLT		A=AL		T=ALT	
	P	N	A	L	T	A
0	.	.	.	.	.	.
10	.	.	.	.	.	.
20	.	.	.	.	.	.
30	.	.	.	.	.	.
40	.	.	.	.	.	.
50	.	.	.	.	.	.
60	.	.	.	.	.	.
70	.	.	.	.	.	.
80	.	.	.	.	.	.
90	.	.	.	.	.	.
100	.	.	.	.	.	.
110	.	.	.	.	.	.
120	.	.	.	.	.	.
130	.	.	.	.	.	.
140	.	.	.	.	.	.
150	.	.	.	.	.	.
160	.	.	.	.	.	.
170	.	.	.	.	.	.
>180	.	.	.	.	.	.

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



	20	30	40	50	60	70	80	90	MEAN	SD
50	.	.	.	.	.	.	.	.	68.0	
63	.	.	.	.	.	X	.	.	66.0	
80	.	.	.	.	X	.	.	.	65.0	
100	.	.	.	.	.	.	.	.	74.0	
125	.	.	.	.	.	.	X	.	80.0	
160	.	.	.	.	.	.	X	.	82.0	
200	.	.	.	.	.	.	.	X	77.0	
250	.	.	.	.	.	.	.	X	83.0	
315	.	.	.	.	.	.	.	X	85.0	
400	.	.	.	.	.	.	.	X	86.0	
500	.	.	.	.	.	.	.	X	86.0	
630	.	.	.	.	.	.	.	X	88.0	
800	.	.	.	.	.	.	.	X	89.0	
1000	.	.	.	.	.	.	.	X	89.0	
1250	.	.	.	.	.	.	.	X	89.0	
1600	.	.	.	.	.	.	.	X	88.0	
2000	.	.	.	.	.	.	.	X	89.0	
2500	.	.	.	.	.	.	.	X	88.0	
3150	.	.	.	.	.	.	.	X	87.0	
4000	.	.	.	.	.	.	.	X	83.0	
5000	.	.	.	.	.	.	.	X	78.0	
6300	.	.	.	.	.	.	.	X	73.0	
8000	.	.	.	.	.	.	.	X	68.0	
10000	.	.	.	.	.	.	.	X	65.0	

A-37 TAKEOFF POWER 100 % RPM

AIRSPEED = 300 KNOTS  
 SLANT DISTANCE = 1000 FEET

TEMP = 59 F  
 REL HUMID = 70 %

PNLT = 111.0 PNOB  
 PNL = 110.4 PNOB  
 ALT = 99.0 DBA  
 AL = 98.4 DBA

NO. OF RECORDS = 1 IDENT: 6.6-504-103-270276

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
A-37		TEMP = 59 F																							
100% RPM		REL HUMID = 70%																							
AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	80	79	88	94	96	91	37	99	100	101	103	104	104	105	104	106	105	105	103	99	97	97	101	
250	80	72	77	86	92	94	89	95	97	98	99	101	102	102	102	102	103	103	103	101	97	95	94	98	
315	78	76	75	84	90	92	67	93	95	96	97	99	100	100	100	100	101	101	101	98	94	92	91	94	
400	76	74	73	82	88	90	85	91	93	94	94	97	98	98	98	97	99	98	98	96	92	89	87	90	
500	74	72	71	80	86	88	83	89	91	92	92	94	96	96	96	96	95	97	96	96	93	89	86	83	85
630	72	70	69	78	84	86	81	87	89	90	90	92	93	94	94	94	93	94	94	93	90	85	82	79	79
800	70	68	67	76	82	84	79	85	87	88	88	88	90	91	91	91	91	92	91	90	87	82	78	74	73
1000	68	66	65	74	80	82	77	83	85	86	86	88	88	89	89	89	88	89	88	87	83	78	73	68	65
1250	66	64	63	72	78	80	75	81	83	84	84	86	87	87	87	87	85	86	85	84	79	74	68	61	56
1600	64	62	61	70	76	78	73	79	81	82	82	83	84	84	84	84	83	83	82	80	74	69	61	53	45
2000	62	60	59	68	74	76	71	77	79	79	79	81	82	82	82	81	80	80	78	75	69	63	54	43	31
2500	60	58	57	66	72	74	69	74	76	77	77	79	79	79	79	78	76	76	74	71	63	56	45	31	15
3150	58	56	55	64	70	71	66	72	74	75	74	76	76	76	76	75	73	72	69	65	56	48	35	17	
4000	56	54	53	62	67	69	64	70	72	72	72	73	73	73	73	71	69	68	64	58	48	38	22		
5000	54	52	51	59	65	67	62	68	69	70	69	70	70	70	69	67	64	62	57	51	38	27	7		
6300	52	50	48	57	63	65	59	65	67	67	66	67	67	67	65	63	59	56	50	41	26	13			
8000	50	47	46	55	61	62	57	62	64	64	64	63	63	63	61	58	53	49	41	30	11				
10000	47	45	44	53	58	60	54	60	61	61	61	59	60	58	55	52	46	41	31	17					
12500	45	43	42	50	56	57	52	57	58	57	55	55	55	53	50	45	38	31	18	0					
16000	43	41	39	48	53	55	49	54	54	53	51	50	47	43	43	37	28	19	3						
20000	41	38	37	45	51	52	45	50	50	49	46	44	44	44	40	34	27	16	4						
25000	38	36	34	43	48	48	42	46	46	44	44	40	37	32	25	15	1								

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-37	115.2	115.7	128.5	129.1	115.2	116.1	118.6	OMEGA	6.6
	112.9	113.5	126.2	126.8	113.9	114.8	117.3		
	110.7	111.2	123.8	124.4	112.7	113.6	116.0		
	108.3	108.9	121.4	122.0	111.3	112.2	114.6		
	106.0	106.5	118.9	119.4	110.0	110.9	113.0		
	103.5	104.1	116.2	116.8	108.5	109.4	111.4		
	101.0	101.6	113.4	114.0	107.0	107.9	109.6		
	98.4	99.0	110.4	111.0	105.4	106.3	107.6		
	95.7	96.3	107.4	108.0	103.7	104.6	105.6		
	92.9	93.4	104.2	104.8	101.9	102.8	103.4		
	89.9	90.5	100.8	101.3	99.9	100.8	100.9		
	86.8	87.4	97.2	97.8	97.8	98.7	98.4		
	83.6	84.2	93.4	94.0	95.6	96.5	95.6		
	80.2	80.7	89.4	89.8	93.2	93.9	92.3		
	76.6	77.0	84.9	85.3	90.6	91.2	88.7		
	72.9	73.1	81.0	81.2	87.9	88.3	85.6		
	68.9	69.1	77.0	77.1	84.9	85.1	82.4		
	64.8	64.8	72.9	72.9	81.8	81.8	79.1		
	60.4	60.4	68.5	68.5	78.4	78.4	75.7		
	55.7	55.7	63.8	63.8	74.7	74.7	72.0		
	50.9	50.9	58.7	58.7	70.9	70.9	67.9		
	45.8	45.8	53.3	53.3	66.8	66.8	63.5		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

NOISE LEVEL IN DB	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	A-37 TAKEOFF POWER								
250	(	(	(	(	(	(	(	(	(
	100 % RPM								
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
	TEMP = 59 F REL HUMID = 70 %								
	DELTA N = 0.0 DB								
400	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
	IDENT: 6.6-504-103-270276-A								
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

AIR TO GROUND  
P = PNL  
\* = PNL  
+ = ALT  
A = AL

```

200 (-----ST-E)
    ( A-37 TAKEOFF POWER
250 ( . 100 % RPM
    ( AIRSPEED = 300 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 1
    ( IDENT: 6.6-504-103-270276-A
500 ( . . . . . ST.E. . . . .
    ( . . . . . X.E
630 ( . . . . .
    ( . . . . . STE
800 ( . . . . .
    ( . . . . . SX
1000 ( . . . . .
    ( . . . . . SX.
1250 ( . . . . .
    ( . . . . . XT.
1600 ( . . . . .
    ( . . . . . EST
2000 ( . . . . .
    ( . . . . . E.X.
2500 ( . . . . .
    ( . . . . . E X
3150 ( . . . . .
    ( . . . . . E X
4000 ( . . . . .
    ( . . . . . E X
5000 ( . . . . .
    ( . . . . . E X
6300 ( . . . . .
    ( . . . . . E X
8000 ( . . . . .
    ( . . . . . AIR TO GROUND
10000 ( . . . . .
    ( . . . . . E = EPNL
12500 ( . . . . .
    ( . . . . . T = SELT
16000 ( . . . . .
    ( . . . . . S = SEL
20000 ( . . . . .
    ( . . . . .
25000 (-----E-X-----)
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

```



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 504																							
( OPERATION: )		OPS CODE: 103																							
( TAKEOFF POWER )		PROFILE VER: A																							
( 100 % RPM )		27 FEB 76																							
( )		PAGE L1																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 77	75	74	74	83	89	91	86	92	94	95	96	96	99	99	100	99	101	100	100	98	94	92	92	96
( 250	( 75	73	72	81	87	87	89	84	90	92	93	94	96	97	97	97	97	98	98	98	96	92	90	89	93
( 315	( 73	71	70	79	85	87	82	88	90	91	92	92	94	95	95	95	95	96	96	96	93	89	87	86	89
( 400	( 71	69	68	77	83	85	80	86	88	89	89	89	92	93	93	93	92	94	93	93	91	87	84	82	85
( 500	( 69	67	66	75	81	82	78	84	86	87	87	87	89	91	91	91	90	92	91	91	88	84	81	78	80
( 630	( 67	65	64	73	78	80	75	81	84	85	85	85	87	88	89	89	88	89	89	88	85	80	77	74	74
( 800	( 65	63	62	71	76	77	72	79	82	83	83	83	85	86	86	86	86	87	86	85	82	77	73	69	68
( 1000	( 63	61	60	68	73	74	69	76	80	81	81	81	83	84	84	84	83	84	83	82	78	73	68	63	60
( 1250	( 61	59	57	65	70	71	66	73	77	77	79	79	81	82	82	82	80	81	80	79	74	69	63	56	51
( 1600	( 59	56	54	61	66	68	63	69	74	74	77	77	78	79	79	79	78	78	77	75	69	64	56	48	40
( 2000	( 56	52	50	57	62	64	59	65	70	74	74	74	76	77	77	76	75	75	73	70	64	58	49	38	26
( 2500	( 52	48	46	53	58	59	54	61	66	71	72	74	74	74	74	73	71	71	69	66	58	51	40	26	10
( 3150	( 48	44	41	48	53	55	49	56	62	67	68	71	71	71	71	70	68	67	64	60	51	43	30	12	
( 4000	( 44	39	36	43	48	49	44	50	56	62	65	68	68	68	68	66	64	63	59	53	43	33	17		
( 5000	( 39	34	31	38	43	44	39	45	51	56	62	65	68	68	65	64	62	59	57	52	46	33	22		
( 6300	( 34	30	26	33	38	39	34	40	45	51	56	60	63	65	64	60	58	54	51	45	36	21			
( 8000	( 32	27	24	31	36	37	31	37	42	48	53	55	57	57	56	53	48	44	36	25	6				
( 10000	( 29	25	22	29	33	34	29	35	39	45	49	52	52	52	50	47	41	36	26	12					
( 12500	( 27	23	20	26	31	32	26	32	36	41	45	47	47	47	45	40	33	26	13						
( 16000	( 25	21	17	24	28	29	23	29	32	37	41	42	41	41	38	32	23	14							
( 20000	( 23	18	15	21	26	26	20	25	28	33	36	36	36	34	29	22	11								
( 25000	( 20	16	12	19	23	23	16	21	24	28	30	29	29	26	20	10									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-37	110.2	110.7	123.5	124.0	110.2	111.0	113.6	OMEGA	6.6
	107.9	108.5	118.8	121.7	108.9	109.8	112.3		
	105.7	106.2	116.4	119.4	107.7	108.5	110.9		
	103.3	103.9	113.8	116.9	106.3	107.2	109.5		
	101.0	101.5	111.1	114.4	105.0	105.8	107.9		
	98.5	99.1	108.3	111.7	103.5	104.4	106.3		
	96.0	96.5	105.3	108.8	102.0	102.9	104.4		
	93.4	93.9	102.1	105.8	100.4	101.2	102.4		
	90.7	91.2	98.7	102.7	98.7	99.5	100.2		
	87.8	88.3	95.1	99.3	96.8	97.7	97.9		
	84.8	85.4	91.3	95.6	94.8	95.7	95.2		
	81.7	82.2	87.1	91.8	92.7	93.5	92.4		
	78.3	78.8	82.4	87.6	90.3	91.1	89.2		
	74.6	75.0	77.2	82.8	87.6	88.3	85.3		
	70.5	70.8	71.9	77.5	84.5	85.0	81.0		
	66.0	66.2	67.2	72.1	81.0	81.3	76.5		
	61.6	61.7	62.1	67.3	77.6	77.7	72.6		
	56.7	56.7	62.1	62.1	73.7	73.7	68.3		
	51.5	51.5	56.4	56.4	69.5	69.5	63.6		
	45.7	45.7	50.1	50.1	64.7	64.7	58.4		
	39.4	39.4	42.6	42.6	59.4	59.4	51.9		
	32.4	32.4	34.5	34.5	53.4	53.4	44.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(

A-37 TAKEOFF POWER

100 % RPM

AIRSPEED = 300 KNOTS

TEMP = 59 F REL HUMID = 70 %

DELTA N = 0.0 DB

NO. OF RECORDS: 1

IDENT: 6.6-504-103-270276-A

NOISE LEVEL IN DB	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

	10	20	30	40	50	60	70	80	MEAN	SD
(	.	.	.	.	.	.	.	.		
(	.	.	.	.	.	.	.	.	56.0	
(	.	.	.	.	.	X	.	.	55.0	
(	.	.	.	.	X	.	.	.	54.0	
(	.	.	.	.	.	.	.	.	59.0	
(	.	.	.	.	.	X	.	.	65.0	
(	.	.	.	.	.	.	X	.	69.0	
(	.	.	.	.	.	.	.	.	65.0	
(	.	.	.	.	.	X	.	.	69.0	
(	.	.	.	.	.	.	X	.	71.0	
(	.	.	.	.	.	.	X	.	71.0	
(	.	.	.	.	.	.	.	.	72.0	
(	.	.	.	.	.	.	.	.	73.0	
(	.	.	.	.	.	.	.	.	73.0	
(	.	.	.	.	.	.	.	.	73.0	
(	.	.	.	.	.	.	.	.	71.0	
(	.	.	.	.	.	.	.	.	70.0	
(	.	.	.	.	.	.	X	.	68.0	
(	.	.	.	.	.	.	X	.	68.0	
(	.	.	.	.	.	.	.	.	64.0	
(	.	.	.	.	.	X	.	.	60.0	
(	.	.	.	.	.	.	.	.	53.0	
(	.	.	.	.	X	.	.	.	45.0	
(	.	.	.	.	.	.	.	.	36.0	
(	.	.	.	.	.	.	.	.		
(	.	.	.	.	.	.	.	.		

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

A-37 CRUISE POWER 90 % RPM

AIRSPEED = 300 KNOTS      TEMP = 59 F      PNLT = 93.2 PNDB  
 SLANT DISTANCE = 1000 FEET      REL HUMID = 70 %      PNL = 92.5 PNDB  
 NO. OF RECORDS = 1      IDENT: 6.6-504-104-270276      ALT = 82.0 DBA  
 AL = 81.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) A/C CODE: 504  
 ( CRUISE POWER ) ) ) OPS CODE: 104  
 ( 90 % RPM ) ) ) REL HUMID = 70 % ) PROFILE VER: A  
 ( ) ) ) ) 27 FEB 76  
 ( AIRSPEED = 300 KNOTS ) DELTA N = 0.0 DB ) ) PAGE H2

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	69	68	68	73	79	83	79	83	85	85	86	87	88	88	89	87	85	85	86	84	84	81	77	74	72
250	68	67	66	71	77	81	77	81	83	83	84	85	86	86	86	85	84	83	84	82	82	79	75	71	59
315	66	65	64	69	75	79	75	79	81	81	82	83	84	84	84	83	82	81	82	79	77	76	72	68	65
400	64	63	62	67	73	77	73	77	79	79	81	82	82	82	82	80	80	78	79	77	73	69	64	61	
500	62	61	60	65	71	75	71	75	77	77	77	78	80	80	80	78	76	77	74	74	71	65	60	56	
630	60	59	58	63	69	73	69	73	75	75	75	76	77	78	78	76	75	74	74	71	67	62	56	50	
800	58	57	56	61	67	71	67	71	73	73	73	74	75	75	75	73	73	71	71	68	64	58	51	44	
1000	56	55	54	59	65	69	65	69	71	71	71	72	73	73	73	71	70	68	68	64	60	53	45	36	
1250	54	53	52	57	63	67	63	67	69	69	69	70	71	71	71	68	67	65	65	60	56	48	38	27	
1600	52	51	50	55	61	65	61	65	67	67	67	67	68	68	68	66	64	62	61	55	51	41	30	16	
2000	50	49	48	53	59	63	59	63	65	64	64	65	66	66	65	63	61	58	57	50	45	34	20	3	
2500	48	47	46	51	57	61	57	60	62	62	62	63	63	63	62	59	57	54	52	44	38	25	9		
3150	46	45	44	49	55	58	54	58	60	60	59	60	60	60	59	56	53	49	46	37	30	15			
4000	44	43	42	47	52	56	52	56	58	57	57	57	57	57	55	52	49	44	40	29	21	2			
5000	42	41	40	44	50	54	50	54	55	55	54	54	54	53	51	47	44	38	32	19	9				
6300	40	39	37	42	48	52	47	51	53	52	51	51	51	49	47	42	38	30	23	7					
8000	38	36	35	40	46	49	45	48	50	49	48	48	47	45	42	36	31	22	12						
10000	35	34	33	38	43	47	42	46	47	46	44	44	42	40	36	29	22	11							
12500	33	32	31	35	41	44	40	43	44	42	40	39	37	34	29	21	12								
16000	31	30	28	33	38	42	37	40	40	38	36	34	31	27	21	11	0								
20000	29	27	26	30	36	39	33	36	36	34	31	28	25	19	11										
25000	26	25	23	28	33	35	30	32	32	29	25	22	16	9											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
(	200	97.4	110.2	110.9	95.9	96.8	98.8	) OMEGA 6.6	
(	250	95.3	108.0	108.6	94.8	95.7	97.5	) A/C CODE: 504	
(	315	93.1	105.7	106.3	93.6	94.5	96.2	) OPS CODE: 104	
(	400	90.8	103.3	103.9	92.3	93.2	94.8	) PROFILE VER: A	
(	500	88.5	100.8	101.4	91.0	91.9	93.3	) 27 FEB 76	
(	630	86.2	98.2	98.8	89.7	90.6	91.7	) PAGE I2	
(	800	83.8	95.4	96.1	88.3	89.2	90.0	) DELTA N = 0.0 DB	
(	1000	81.3	92.5	93.2	86.8	87.7	88.1	) METEOROLOGY:	
(	1250	78.7	89.5	90.1	85.2	86.1	86.0	) TEMP = 59 F	
(	1600	76.1	86.3	87.0	83.6	84.5	83.9	) REL HUMID = 70 %	
(	2000	73.3	83.1	83.8	81.8	82.7	81.7	) DELTA N = 0.0 DB	
(	2500	70.4	79.7	80.4	79.9	80.8	79.2	) METEOROLOGY:	
(	3150	67.4	76.2	76.8	77.9	78.8	76.7	) TEMP = 59 F	
(	4000	64.2	72.3	72.9	75.7	76.4	73.7	) REL HUMID = 70 %	
(	5000	60.8	68.7	69.1	73.3	73.9	70.9	) DELTA N = 0.0 DB	
(	6300	57.3	65.0	65.3	70.8	71.1	68.0	) METEOROLOGY:	
(	8000	53.5	61.2	61.3	68.0	68.2	65.0	) TEMP = 59 F	
(	10000	49.5	57.0	57.0	65.0	65.0	61.7	) REL HUMID = 70 %	
(	12500	45.3	52.5	52.5	61.8	61.8	58.2	) DELTA N = 0.0 DB	
(	16000	40.9	47.3	47.3	58.4	58.4	53.9	) METEOROLOGY:	
(	20000	36.3	41.8	41.8	54.8	54.8	49.5	) TEMP = 59 F	
(	25000	31.5	35.8	35.8	51.0	51.0	44.4	) REL HUMID = 70 %	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

Frequency (Hz)	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000	
Flight Data																							
Operating Conditions	A-37 CRUISE POWER 90 % RPM AIRSPEED = 300 KNOTS TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB NO. OF RECORDS: 1 IDENT: 6.6-504-104-270276-A																						
Sound Level (dB)																							
Remarks																							
Notes																							
Summary																							
Legend																							
Scale																							
Units																							
Frequency (dB)	30	40	50	60	70	80	90	100	110														



ST-E	20	30	40	50	60	70	80	90	100
200	(	-----E-----X-----							
	(	A-37	CRUISE POWER						
250	(	90 % RPM							
315	(	AIRSPEED = 300 KNOTS							ST E .
400	(	TEMP = 59 F	REL HUMID = 70 %						X E .
500	(	DELTA N = 0.0 DB							
	(	NO. OF RECORDS: 1							ST E .
	(	IDENT: 6.6-504-104-270276-A							ST E .
	(								
S 630	(								ST E .
L 800	(								ST E .
A 1000	(								SX .
D 1250	(								SX .
I 1600	(								X .
T 2000	(								XT .
C 2500	(								EST .
E 3150	(								EST .
I 4000	(								E X .
F 5000	(								E . ST .
E 6300	(								E . X .
8000	(								E X .
10000	(								E . X .
12500	(								AIR TO GROUND
16000	(								E = EPNL
20000	(								T = SELT
25000	(								S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		GROUND-TO-GROUND PROPAGATION														IDENTIFICATION:										
		AIRCRAFT:														OMEGA 6.6										
		OPERATION:														A/C CODE: 504										
		CRUISE POWER = 59 F														OPS CODE: 104										
		90 % RPM														PROFILE VER: A										
		AIRSPEED = 300 KNOTS														27 FEB 76										
		DELTA N = 0.0 DB														PAGE L2										
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	65	64	63	68	74	78	74	78	74	80	80	81	82	83	83	84	82	81	80	81	79	77	76	72	69	67
250	63	62	61	66	72	76	72	76	72	78	78	79	80	81	81	81	80	79	78	79	77	74	70	66	64	
315	61	60	59	64	70	74	70	74	70	76	76	77	78	79	79	79	78	77	76	77	74	71	67	63	60	
400	59	58	57	62	68	72	68	72	68	74	74	74	76	77	77	77	75	73	74	72	72	68	64	59	56	
500	57	56	55	60	66	69	66	70	72	72	72	73	75	75	75	75	73	71	72	69	66	66	60	55	51	
630	55	54	53	58	63	67	63	67	70	70	70	71	72	73	73	73	71	70	69	69	66	62	57	51	45	
800	53	52	51	56	61	64	60	65	68	68	68	69	70	70	70	70	68	68	66	66	63	59	53	46	39	
1000	51	50	49	53	58	61	57	62	66	66	66	67	68	68	68	68	66	65	63	63	59	55	48	40	31	
1250	49	48	46	50	55	58	54	59	63	64	64	65	66	66	66	66	63	62	60	60	55	51	43	33	22	
1600	47	45	43	46	51	55	51	55	60	62	62	62	63	63	63	63	61	59	57	56	50	46	36	25	11	
2000	44	41	39	42	47	51	47	51	56	59	59	60	61	61	61	60	58	56	53	52	45	40	29	15		
2500	40	37	35	38	43	46	42	47	52	56	57	58	58	58	58	57	54	52	49	47	39	33	20	4		
3150	36	33	30	33	38	42	37	42	48	52	53	55	55	55	55	54	51	48	44	41	32	25	10			
4000	32	28	25	28	33	36	32	36	43	47	50	52	52	52	52	50	47	44	39	35	24	16				
5000	27	23	20	23	28	31	27	31	37	41	45	47	49	48	46	46	42	39	33	27	14	4				
6300	22	19	15	18	23	26	22	26	31	36	41	43	45	44	42	42	37	33	25	18	2					
8000	20	16	13	16	21	24	19	23	28	33	38	40	41	40	37	31	26	17	7							
10000	17	14	11	14	18	21	17	21	25	30	34	35	36	35	31	24	17	6								
12500	15	12	9	11	16	19	14	18	22	26	30	31	31	29	24	16	7									
16000	13	10	6	9	13	16	11	15	18	22	26	26	25	22	16	6										
20000	11	7	4	6	11	13	8	11	14	18	21	20	19	14	6											
25000	9	5	1	4	8	10	4	7	10	13	15	14	10	4												

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION					IDENTIFICATION:				
AIRCRAFT:	OPERATION:	METEOROLGY:							
A-37	CPUISE POWER = 90 % RPM	TEMP = 59 F	REL HUMID = 70 %		A/C CODE: 504		OPS CODE: 104		OMEGA 6.6
	AIRSPD = 300 KNOTS	DELTA N = 0.0 DB			PROFILE VER: A		27 FEB 76		PAGE M2
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	92.4	93.0	105.2	105.8	90.9	91.8	93.7		
250	90.3	90.9	102.9	103.6	89.8	90.6	92.5		
315	88.1	88.7	100.6	101.2	88.6	89.4	91.1		
400	85.8	86.4	98.2	98.8	87.3	88.2	89.7		
500	83.5	84.2	95.7	96.3	86.0	86.9	88.2		
630	81.2	81.8	93.0	93.7	84.7	85.5	86.5		
800	78.8	79.4	90.2	90.9	83.3	84.1	84.8		
1000	76.3	76.9	87.3	87.9	81.8	82.6	82.8		
1250	73.7	74.3	84.0	84.7	80.2	81.0	80.6		
1600	71.0	71.6	80.7	81.4	78.5	79.3	78.2		
2000	68.1	68.8	77.3	77.9	76.7	77.5	75.8		
2500	65.1	65.8	73.5	74.1	74.6	75.5	73.0		
3150	61.9	62.5	69.5	70.1	72.4	73.2	70.0		
4000	58.3	58.8	65.0	65.5	69.8	70.5	66.4		
5000	54.3	54.7	60.3	60.6	66.8	67.3	62.4		
6300	49.9	50.2	55.1	55.3	63.5	63.8	58.1		
8000	45.6	45.8	50.3	50.4	60.1	60.3	54.1		
10000	40.9	40.9	44.3	44.3	56.4	56.4	49.0		
12500	35.8	35.8	37.6	37.6	52.3	52.3	43.3		
16000	30.1	30.1	30.6	30.6	47.6	47.6	37.2		
20000	23.9	23.9	19.8	19.8	42.4	42.4	27.5		
25000	17.2	17.2	9.1	9.1	36.7	36.7	17.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	20	30	40	50	60	70	80	90	100
200	(	(	(	(	(	(	(	(	(
	A-37	90 % RPM	CRUISE POWER						ST-E
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								STE
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							X.E
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								ST E
	IDENT: 6.6-504-104-270276-A								STE
630	(	(	(	(	(	(	(	(	(
									STE
800	(	(	(	(	(	(	(	(	(
									STE
1000	(	(	(	(	(	(	(	(	(
									SX
1250	(	(	(	(	(	(	(	(	(
									SX
1600	(	(	(	(	(	(	(	(	(
									XT.
2000	(	(	(	(	(	(	(	(	(
									EST
2500	(	(	(	(	(	(	(	(	(
									E X
3150	(	(	(	(	(	(	(	(	(
									E ST
4000	(	(	(	(	(	(	(	(	(
									E ST
5000	(	(	(	(	(	(	(	(	(
									E . X.
6300	(	(	(	(	(	(	(	(	(
									E . ST
8000	(	(	(	(	(	(	(	(	(
									E X
10000	(	(	(	(	(	(	(	(	(
									E . X .
12500	(	(	(	(	(	(	(	(	(
									E . X
16000	(	(	(	(	(	(	(	(	(
									E . X .
20000	(	(	(	(	(	(	(	(	(
									E . X .
25000	(	(	(	(	(	(	(	(	(
									E . X .
									GROUND TO GROUND
									E = EPNL
									T = SELT
									S = SEL

	10	20	30	40	50	60	70	80	MEAN	SD
50	.	.	.	.	.	.	.	.	62.0	
63	.	.	.	.	.	.	X	.	61.0	
80	.	.	.	.	.	X	.	.	59.0	
100	.	.	.	.	.	.	X	.	65.0	
125	.	.	.	.	.	.	.	X	72.0	
160	.	.	.	.	.	.	.	X	74.0	
200	.	.	.	.	.	.	X	.	71.0	
250	.	.	.	.	.	.	.	X	76.0	
315	.	.	.	.	.	.	.	X	73.0	
400	.	.	.	.	.	.	.	X	76.0	
500	.	.	.	.	.	.	.	X	75.0	
630	.	.	.	.	.	.	.	X	76.0	
800	.	.	.	.	.	.	.	X	76.0	
1000	.	.	.	.	.	.	.	X	76.0	
1250	.	.	.	.	.	.	.	X	75.0	
1600	.	.	.	.	.	.	.	X	74.0	
2000	.	.	.	.	.	.	.	X	73.0	
2500	.	.	.	.	.	.	.	X	71.0	
3150	.	.	.	.	.	.	X	.	68.0	
4000	.	.	.	.	.	X	.	.	66.0	
5000	.	.	.	.	.	.	X	.	61.0	
6300	.	.	.	.	.	.	.	X	55.0	
8000	.	.	.	.	.	.	.	.	47.0	
10000	.	.	.	.	.	.	.	.	38.0	

F R E Q U E N C Y I M H Z

A-37 APPROACH POWER 91 % RPM

AIRSPEED = 170 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %

PNLT = 96.1 PNOB  
 PNL = 95.4 PNOB  
 ALT = 84.9 OBA  
 AL = 84.2 OBA

NO. OF RECORDS = 1 IDENT: 6.6-504-105-270276

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 594																							
A-37		OPS CODE: 105																							
		PROFILE VER: A																							
		27 FEB 76																							
		PAGE H3																							
		METEOROLOGY:																							
		TEMP = 59 F																							
		REL HUMID = 70 %																							
		DELTA N = 0.0 DB																							
		AIRSPEED = 170 KNOTS																							
		FREQUENCY BAND NUMBER																							
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	74	75	73	79	86	88	85	90	87	90	90	91	91	91	90	90	89	88	86	86	86	82	79	76	74
250	74	73	71	77	84	86	83	88	85	88	88	89	89	89	88	88	87	86	84	84	84	80	77	73	70
315	72	71	69	75	82	84	81	86	83	86	86	87	87	87	86	86	85	84	82	81	77	74	70	67	
400	70	69	67	73	80	82	79	84	81	84	83	85	85	85	84	83	83	81	79	79	74	71	66	62	
500	68	67	65	71	78	80	77	82	79	82	81	82	83	83	82	81	81	79	77	76	72	67	62	58	
630	66	65	63	69	76	78	75	80	77	80	79	80	80	81	80	79	78	76	74	73	68	64	58	52	
800	64	63	61	67	74	76	73	78	75	78	77	78	78	78	77	76	76	74	71	70	65	60	53	46	
1000	62	61	59	65	72	74	71	76	73	76	75	76	76	76	75	74	73	71	68	66	61	55	47	38	
1250	60	59	57	63	70	72	69	74	71	74	73	74	74	74	73	71	70	68	65	62	57	50	40	29	
1600	58	57	55	61	68	70	67	72	69	72	71	71	71	71	70	69	67	65	61	58	52	44	32	18	
2000	56	55	53	59	66	68	65	70	67	69	68	69	69	69	67	66	64	61	57	52	46	36	22	5	
2500	54	53	51	57	64	66	63	67	64	67	66	67	66	66	64	62	60	57	52	46	39	28	11		
3150	52	51	49	55	62	64	60	65	62	65	63	64	63	63	61	59	56	52	46	39	31	17			
4000	50	49	47	53	59	61	58	63	60	62	61	61	60	60	57	55	52	47	40	31	22				
5000	48	47	45	50	57	59	56	61	57	60	58	58	57	56	54	50	47	41	32	21	11				
6300	46	45	42	48	55	57	53	58	55	57	55	55	54	52	49	45	41	34	23	9					
8000	44	42	40	46	53	54	51	55	52	54	52	52	50	48	44	39	34	25	12						
10000	41	40	38	44	50	52	48	53	49	51	48	48	45	43	38	32	25	17							
12500	39	38	36	41	48	49	46	50	46	47	45	43	40	37	31	24	16	2							
16000	37	36	33	39	45	47	43	47	42	43	40	38	35	30	23	14	4								
20000	35	33	31	36	43	44	39	43	38	39	35	32	28	22	14	3									
25000	32	31	28	34	40	40	36	39	34	34	29	26	20	12	2										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PML (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-37	100.1	100.8	112.5	113.2	100.4	101.4	103.6	OMEGA	6.6
	98.0	98.6	110.3	111.0	99.2	100.2	102.4	A/C CODE:	504
	95.8	96.5	108.0	108.7	98.0	99.0	101.1	OPS CODE:	105
	93.6	94.3	105.7	106.4	96.8	97.8	99.8	PK PROFILE VER:	A
	91.3	92.0	103.3	103.9	95.6	96.6	98.3	27 FER	76
	89.0	89.7	100.8	101.4	94.3	95.3	96.9	PAGE	13
	86.7	87.3	98.2	98.8	92.9	93.9	95.2		
	84.2	84.3	95.4	96.1	91.5	92.5	93.5		
	81.7	82.4	92.6	93.3	90.0	91.0	91.7		
	79.1	79.8	89.6	90.3	88.4	89.4	89.7		
	76.4	77.1	86.5	87.2	86.7	87.7	87.6		
	73.6	74.3	83.2	83.8	84.9	85.9	85.2		
	70.7	71.4	79.8	80.4	82.9	83.9	82.8		
	67.6	68.1	76.5	77.0	80.9	81.7	80.4		
	64.4	64.8	73.1	73.5	78.6	79.2	77.8		
	60.9	61.2	69.6	69.9	76.2	76.6	75.1		
	57.4	57.5	65.9	66.0	73.6	73.3	72.2		
	53.6	53.6	61.9	61.9	70.8	70.8	69.0		
	49.6	49.6	57.6	57.6	67.8	67.8	65.7		
	45.4	45.4	53.0	53.0	64.7	64.7	62.1		
	41.0	41.0	47.8	47.8	61.3	61.3	57.9		
	36.4	36.4	42.0	42.0	57.7	57.7	53.1		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.







TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																									
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																									
AIRCRAFT:		METEOROLOGY:																									
A-37		A/C CODE: 504																									
91 % RPM		TEMP = 59 F																									
AIRSPEED = 170 KNOTS		REL HUMID = 70 %																									
DELTA N = 0.0 08		PROFILE VER: A																									
		27 FEB 76																									
		PAGE L3																									
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																									
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	71	70	68	74	81	83	80	85	82	85	85	86	86	86	86	85	85	84	83	84	83	81	81	77	74	71	69
250	69	68	56	72	79	81	78	83	80	83	83	84	84	84	84	83	83	82	81	80	79	79	79	75	72	68	65
315	67	66	64	70	77	79	76	81	78	81	81	82	82	82	82	81	81	80	79	77	76	76	72	69	65	62	
400	65	64	62	68	75	77	74	79	76	79	78	80	80	80	80	79	78	78	76	74	74	74	69	66	61	57	
500	63	62	60	66	73	74	72	77	74	77	76	77	78	78	78	77	76	76	74	72	71	71	67	62	57	53	
630	61	60	58	64	70	72	69	74	72	75	74	75	75	75	76	75	74	73	71	69	68	63	59	53	47		
800	59	58	56	62	68	69	66	72	70	73	72	73	73	73	73	72	71	71	69	66	65	60	55	48	41		
1000	57	56	54	59	65	66	63	69	68	71	70	71	71	71	71	70	69	68	66	63	61	56	50	42	33		
1250	55	54	51	56	62	63	60	66	65	69	68	69	69	69	69	68	66	65	63	60	57	52	45	35	24		
1600	53	51	48	52	58	60	57	62	62	67	66	66	66	66	66	65	64	62	60	56	53	47	39	27	13		
2000	50	47	44	48	54	56	53	58	58	64	63	64	64	64	64	62	61	59	56	52	47	41	31	17	6		
2500	46	43	40	44	50	51	48	54	54	61	61	62	61	61	59	57	55	52	47	41	34	26	12				
3150	42	39	35	39	45	47	43	49	50	57	57	59	58	58	56	54	51	47	41	34	26	17					
4000	38	34	30	34	40	41	38	43	45	52	54	56	55	55	52	50	47	42	35	26	17						
5000	33	29	25	29	35	36	33	38	39	46	49	51	52	51	49	45	42	36	27	16	6						
6300	28	25	20	24	30	31	28	33	33	41	45	47	48	47	44	40	36	29	16	4							
8000	26	22	18	22	28	29	25	30	30	38	42	44	44	44	43	39	34	29	20	7							
10000	23	20	16	20	25	26	23	28	27	35	38	40	39	38	33	27	20	10									
12500	21	18	14	17	23	24	20	25	24	31	35	35	34	32	26	19	11										
16000	19	16	11	15	20	21	17	22	20	27	30	30	29	25	18	9											
20000	17	13	9	12	18	18	14	18	16	23	25	24	22	17	9												
25000	14	11	6	10	15	15	10	14	12	18	19	18	14	7													

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION					IDENTIFICATION:				
AIRCRAFT:	OPERATION:	METEOROLOGY:	APPROACH POWER	TEMP	A/C CODE:	OMEGA	REL HUMID = 70 %	OPS CODE:	
A-37	91 % RPM				504	6.6		105	
	AIRSPEED = 170 KNOTS	DELTA N = 0.0 DB			27 FEB 76			PAGE	M3
SLANT DISTANCE (FEET)	AI (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	95.1	95.6	107.5	108.0	95.4	96.2	98.4		
250	93.0	93.5	105.3	105.8	94.2	95.1	97.2		
315	90.8	91.3	103.0	103.5	93.0	93.9	95.9		
400	88.6	89.1	100.6	101.2	91.8	92.7	94.6		
500	86.3	86.9	98.2	98.7	90.6	91.5	93.1		
630	84.0	84.5	95.6	96.2	89.3	90.1	91.6		
800	81.6	82.2	92.9	93.5	87.9	88.8	89.9		
1000	79.2	79.7	90.1	90.6	86.4	87.3	88.0		
1250	76.6	77.2	87.1	87.6	84.9	85.8	86.0		
1600	74.0	74.5	83.9	84.5	83.2	84.1	83.9		
2000	71.2	71.8	80.5	81.1	81.5	82.4	81.5		
2500	68.2	68.8	76.8	77.3	79.5	80.4	78.7		
3150	65.0	65.6	72.8	73.3	77.3	78.1	75.7		
4000	61.5	61.9	68.3	68.7	74.7	75.4	72.1		
5000	57.5	57.8	63.6	63.9	71.7	72.2	68.2		
6300	53.1	53.3	58.6	58.8	68.4	68.7	64.0		
8000	48.9	49.0	54.0	54.1	65.2	65.3	60.3		
10000	44.3	44.3	48.6	48.6	61.6	61.6	55.7		
12500	39.3	39.3	42.6	42.6	57.6	57.6	50.7		
16000	33.9	33.9	35.8	35.8	53.1	53.1	44.8		
20000	27.9	27.9	27.7	27.7	48.1	48.1	37.8		
25000	21.3	21.3	15.8	15.8	42.6	42.6	26.9		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	APPROACH POWER										
	30	40	50	60	70	80	90	100	110		
200	(	(	(	(	(	(	(	(	(	(	)
	A-37	91 % RPM									*P
250	(	(	(	(	(	(	(	(	(	(	)
	AIRSPEED = 170 KNOTS										*P
315	(	(	(	(	(	(	(	(	(	(	)
	TEMP = 59 F	REL HUMID = 70 %									*P
400	(	(	(	(	(	(	(	(	(	(	)
	DELTA N = 0.0 DB										*X
500	(	(	(	(	(	(	(	(	(	(	)
	NO. OF RECORDS: 1										*P
630	(	(	(	(	(	(	(	(	(	(	)
	IDENT: 6.6-504-105-270276-A										*P
S 630	(	(	(	(	(	(	(	(	(	(	)
L 800	(	(	(	(	(	(	(	(	(	(	)
A 800	(	(	(	(	(	(	(	(	(	(	)
N 800	(	(	(	(	(	(	(	(	(	(	)
T 1000	(	(	(	(	(	(	(	(	(	(	)
D 1250	(	(	(	(	(	(	(	(	(	(	)
I 1250	(	(	(	(	(	(	(	(	(	(	)
S 1600	(	(	(	(	(	(	(	(	(	(	)
T 1600	(	(	(	(	(	(	(	(	(	(	)
A 2000	(	(	(	(	(	(	(	(	(	(	)
N 2000	(	(	(	(	(	(	(	(	(	(	)
C 2500	(	(	(	(	(	(	(	(	(	(	)
E 3150	(	(	(	(	(	(	(	(	(	(	)
I 4000	(	(	(	(	(	(	(	(	(	(	)
N 4000	(	(	(	(	(	(	(	(	(	(	)
F 5000	(	(	(	(	(	(	(	(	(	(	)
E 6300	(	(	(	(	(	(	(	(	(	(	)
E 8000	(	(	(	(	(	(	(	(	(	(	)
T 10000	(	(	(	(	(	(	(	(	(	(	)
12500	(	(	(	(	(	(	(	(	(	(	)
16000	(	(	(	(	(	(	(	(	(	(	)
20000	(	(	(	(	(	(	(	(	(	(	)
25000	(	(	(	(	(	(	(	(	(	(	)

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200 (-----A-37 APPROACH POWER-----ST-E)
250 ( 91 % RPM . . . . . ST E )
315 ( AIRSPEED = 170 KNOTS . . . . . )
400 ( TEMP = 59 F REL HUMID = 70 % . . . . . ST E )
500 ( DELTA N = 0.0 DB . . . . . )
630 ( NO. OF RECORDS: 1 . . . . . ST E )
800 ( IDENT: 6.6-504-105-270276-A . . . . . X.E. )
S 630 ( . . . . . ST E )
L 800 ( . . . . . STE )
N 1000 ( . . . . . STE )
D 1250 ( . . . . . SX )
I 1600 ( . . . . . SX )
T 2000 ( . . . . . XT )
C 2500 ( . . . . . EX )
E 3150 ( . . . . . EST )
I 4000 ( . . . . . E X )
F 5000 ( . . . . . E X )
E 6300 ( . . . . . E ST. )
T 8000 ( . . . . . E X )
10000 ( . . . . . E X )
12500 ( . . . . . E X )
16000 ( . . . . . E X )
20000 ( . . . . . E X )
25000 (-----E-----X-----)

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NOISE LEVEL IN DB

20 30 40 50 60 70 80 90 100



TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		) OMEGA 8.2																		
DISTANCE = 250 FEET		) TEST 74-004-014																		
		) RUN 01																		
NOISE SOURCE/SUBJECT:		) METEOROLOGY:																		
( A-378 AIRCRAFT		) TEMP = 59 F																		
( ENG. J85-17		) BAR PRESS = 29.92 IN HG																		
( GROUND RUNUP		) PROFILE VERSION A																		
		) REL HUMID = 70 %																		
		) DELTA N = -3.0 DB																		
		) PAGE C1																		
BAND CENTER		ANGLE (DEGREES)																		
FREQ (HZ)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	62<	65<	64<	65<	65<	63<	63<	63<	68<	64<	65<	64<	66	66	68	68	68	68	65	64<
63	62<	65<	64<	65<	65<	63<	63<	63<	68<	64<	65<	64<	66	66	71	71	71	71	69	64<
80	62	65	64	65	65	68	67	67	69	67	68	68	71	73	75	75	72	69	67	63
100	63	65	65	65	67	69	70	71	71	71	71	71	74	76	77	75	73	68	63	61<
125	70	71	71	74	75	74	77	77	77	77	77	78	80	80	81	79	77	67	61<	60<
160	69	72	73	72	70	74	77	77	78	77	77	78	80	79	77	74	70	65<	59<	58<
200	66	69	70	68	69	69	69	69	70	70	71	71	74	74	72	68	59	62<	58<	57<
250	67	68	71	71	71	68	68	68	69	71	73	71	72	72	71	65	58<	60<	56<	55<
315	67	69	68	68	68	65	68	68	70	68	72	70	70	70	68	61	56<	58<	54<	54<
400	66	67	66	66	68	69	64	65	67	70	72	72	74	72	68	60	55<	56<	53<	52<
500	65	67	65	65	66	65	65	64	67	67	68	69	70	68	67	57	53<	54<	51<	51<
630	63	65	65	65	63	63	63	60	61	65	66	66	67	65	63	57	52<	52<	49<	49<
800	65	65	66	63	62	63	62	62	61	62	63	63	67	69	64	56	50<	50<	48<	48<
1000	67	67	67	65	65	65	65	62	62	63	63	66	68	63	63	57	49<	47<	46<	46<
1250	69	68	67	66	65	65	65	61	60	61	64	68	68	64	62	59	47	45<	44<	45<
1600	73	72	72	71	70	70	70	65	64	62	63	68	68	64	63	61	49	43	42	43
2000	71	67	68	67	66	67	67	63	64	61	62	68	68	63	62	59	48	43	42<	42<
2500	69	67	68	66	65	67	64	64	63	58	62	68	65	63	61	58	46<	42<	41<	41<
3150	71	69	68	68	67	69	68	68	64	57	61	67	63	61	60	56	45	42<	40<	40<
4000	83	83	77	80	80	84	85	85	68	60	64	67	63	62	61	52	41	40	38	38
5000	72	71	71	71	71	72	71	71	65	61	64	68	63	59	57	55	44	37	37	36
6300	70	70	70	70	70	70	70	68	65	62	64	68	63	59	56	54	44	36	37	34
8000	79	80	78	82	76	79	77	77	70	68	65	69	65	63	65	63	53	42	43	39
10000	65	65	65	65	65	64	62	62	62	57	56	60	55	53	51	49	38	32	31	31
OVERALL	86	87	84	86	85	87	87	87	84	83	83	85	86	86	85	83	81	76	73	70

XXX< = EXTRAPOLATED OR INTERPOLATED SPL



TABLE 1 PERCEIVED NOISE LEVEL (PNOR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT#	METEOROLOGY:																		
	TEMP = 59 F																		
A-37B AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. J05-17	DELTA N = -3.0 DR																		
	PAGE 01																		
GROUND RUNUP	AIRCRAFT CODE 004																		
	OPERATION CODE 02013																		
IDENTIFICATION:	TEST 74-004-014																		
	RUN 01																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.8	104.0	100.5	102.3	101.9	104.2	104.4	97.3	92.3	93.6	96.4	95.0	93.3	92.7	89.9	84.2	77.7	74.3	73.0
250	101.4	101.6	98.1	99.9	99.6	101.8	102.0	94.7	89.8	91.3	94.0	92.8	91.1	90.5	87.6	81.8	75.3	71.9	70.7
315	99.0	99.1	95.6	97.4	97.1	99.3	99.5	91.9	87.2	88.9	91.6	90.5	88.8	88.2	85.2	79.4	73.0	69.5	68.4
400	96.4	96.5	93.1	94.8	94.5	96.7	96.9	89.0	84.6	86.3	89.1	88.1	86.4	85.8	82.8	77.0	70.5	67.0	66.1
500	93.6	93.8	90.3	92.0	91.8	94.0	94.2	85.9	81.9	83.7	86.5	85.7	83.8	83.2	80.2	74.4	68.0	64.5	63.6
630	90.7	90.8	87.4	89.1	88.8	91.0	91.2	82.5	79.2	80.9	83.8	83.1	81.1	80.4	77.4	71.5	65.2	61.9	61.0
800	87.5	87.7	84.3	85.9	85.7	87.9	88.0	79.4	76.5	78.0	81.0	80.3	78.5	77.5	74.3	68.5	62.5	59.2	58.2
1000	84.1	84.3	80.9	82.5	82.3	84.4	84.6	76.1	73.6	75.1	78.0	77.4	75.7	74.3	71.1	65.3	59.5	56.0	55.0
1250	80.4	80.5	77.2	78.8	78.6	80.6	80.8	72.4	70.6	72.2	74.7	74.5	72.8	70.9	67.6	61.6	56.2	52.5	51.6
1600	76.2	76.4	73.2	74.6	74.4	76.4	76.5	68.4	67.5	69.1	71.2	71.4	69.7	67.4	63.8	57.5	52.7	48.8	48.0
2000	71.7	71.8	68.7	70.0	69.9	71.8	71.8	64.1	64.2	65.7	67.5	68.2	66.4	63.9	59.6	52.8	48.7	44.8	43.9
2500	66.5	66.6	64.2	64.8	64.7	66.5	66.5	59.8	60.0	61.6	63.5	64.1	62.3	59.9	55.3	47.2	43.7	39.4	38.5
3150	60.9	60.7	59.9	59.5	59.9	60.5	60.2	55.1	55.2	56.9	58.8	59.6	57.6	55.3	50.1	40.4	37.5	32.2	31.7
4000	56.0	55.4	54.9	54.5	53.7	53.7	53.1	49.7	49.6	51.5	53.8	54.5	52.2	49.9	43.8	32.0	28.5	23.4	22.4
5000	50.3	49.5	49.3	48.5	47.6	47.4	44.3	43.8	43.7	45.2	47.9	48.5	45.8	43.9	36.5	19.6	11.7	11.4	11.4
6300	43.5	42.5	41.9	41.3	40.2	39.8	36.1	36.6	36.9	38.8	41.3	42.4	39.4	37.3	27.3	7.2	7.5	.0	.4
8000	35.5	34.9	34.2	33.4	31.7	31.6	27.6	30.4	30.8	32.7	35.8	36.7	33.3	30.3	13.6				
10000	24.7	25.6	24.1	23.1	24.1	22.0	17.9	21.4	23.9	26.2	29.1	30.3	26.0	23.4					
12500	8.3	12.9	12.5	8.7	12.3	9.1	7.3	11.3	15.4	17.2	20.0	21.6	17.5	12.6					
16000		.3	.9		.4			1.3	6.9	8.2	8.4	11.5	7.2	1.8					
20000																			
25000																			

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT AIRCRAFT	METEOROLOGY:																		
	TEMP = 59 F																		
ENG. J85-17	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = -3.0 DB																		
	PAGE E1																		
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-014																			
RUN 01																			
AIRCRAFT CODE 004																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
18 DEC 75																			
PAGE E1																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.7	108.5	102.9	105.8	105.8	108.8	109.6	99.6	93.7	94.4	97.2	96.0	94.5	94.6	91.8	86.7	79.0	75.0	74.1
250	105.4	106.1	100.6	103.5	103.4	106.4	107.2	97.0	91.2	92.1	94.8	93.8	92.3	92.4	89.5	84.3	76.6	73.4	71.8
315	102.9	103.7	98.1	101.0	100.9	103.9	104.7	94.3	88.6	89.7	92.4	91.5	90.0	90.1	87.1	81.9	74.2	71.0	69.5
400	100.3	101.1	95.5	98.4	98.3	101.3	102.1	91.4	86.3	87.2	89.9	89.1	87.6	87.7	84.6	79.5	71.8	68.5	67.1
500	97.5	98.3	92.8	95.6	95.6	98.5	99.3	83.4	83.3	84.5	87.3	86.7	85.0	85.1	82.1	76.9	69.2	66.0	64.7
630	94.6	95.4	89.9	92.7	92.6	95.6	96.4	80.9	80.5	81.7	84.6	84.1	82.3	82.3	79.2	74.0	66.5	63.5	62.1
800	91.4	92.2	86.7	89.5	89.5	92.4	93.2	81.7	77.9	78.8	81.8	81.3	79.6	79.4	76.2	71.0	63.8	60.7	59.2
1000	88.0	88.8	83.4	86.1	86.1	89.0	89.8	78.4	75.0	76.0	78.8	78.4	76.8	76.2	73.0	67.7	60.8	57.5	56.1
1250	84.3	85.1	79.7	82.3	82.3	85.2	85.9	74.8	72.0	73.0	75.5	75.5	73.9	72.8	69.5	64.1	57.5	54.0	52.7
1600	80.2	80.9	75.6	78.2	78.2	81.0	81.7	70.8	68.9	69.9	72.0	72.4	70.9	69.3	65.7	59.9	54.0	50.3	49.0
2000	75.6	76.3	71.2	73.6	73.6	76.3	77.0	66.5	65.5	66.5	68.4	69.2	67.5	65.8	61.5	55.2	50.0	46.3	45.0
2500	70.4	71.1	66.7	68.4	68.4	71.1	71.6	62.1	61.4	62.4	64.3	65.1	63.5	61.8	57.1	49.6	45.0	40.9	39.5
3150	64.8	65.3	62.3	63.0	62.7	65.0	65.4	57.5	56.6	57.7	59.6	60.6	58.8	57.2	51.9	42.9	38.7	33.7	32.8
4000	59.2	59.0	56.0	57.3	56.8	57.4	57.2	51.6	50.7	52.1	54.5	55.3	53.1	51.4	45.3	34.0	29.5	24.6	23.3
5000	52.6	52.2	50.8	50.6	49.9	50.1	47.4	45.2	44.5	45.7	48.4	49.1	46.5	45.1	37.6	21.1	20.2	12.6	12.0
6300	45.1	44.3	42.9	42.7	41.7	41.6	38.1	37.5	37.5	39.1	41.6	42.8	39.9	38.0	28.0	8.2	8.0	.6	.8
8000	36.2	35.8	34.7	34.1	32.5	32.5	28.7	28.9	31.0	32.8	36.0	36.9	33.5	30.7	14.0				
10000	24.7	24.1	23.1	23.1	24.1	22.0	17.9	21.4	23.9	26.2	29.1	30.3	26.0	23.4					
12500	8.3	12.9	12.5	8.7	12.3	9.1	7.3	11.3	15.4	17.2	20.0	21.6	17.5	12.6					
16000		3	5		4			1.3	6.9	8.2	8.4	11.5	7.2	1.8					
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D3A)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	( OPERATION )																			
	( IDLE, 46% RPM )																			
A-17R AIRCRAFT																				
ENG. J85-17																				
SINGLE ENGINE																				
GROUND RUNUP																				
DELTA N = -3.0 DB																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
IDENTIFICATION:																				
OMEGA 1.2																				
TEST 74-004-014																				
RUN 01																				
AIRCRAFT CODE 004																				
OPERATION CODE 02013																				
PROFILE VERSION A																				
18 DEC 75																				
PAGE F1																				
ANGLE (DEGREES)																				
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
( 200	88.7	89.8	85.4	87.7	86.3	89.0	89.2	82.0	77.7	78.9	82.0	81.3	78.8	77.4	74.1	67.4	63.7	60.5	59.9	)
( 250	86.3	86.4	83.0	85.1	83.8	86.5	86.8	79.4	75.5	76.7	79.7	79.1	76.7	75.3	71.9	65.3	61.6	58.4	57.9	)
( 315	83.7	83.8	80.4	82.4	81.3	84.0	84.3	76.7	73.2	74.5	77.4	76.9	74.5	73.1	69.6	63.1	59.6	56.3	55.8	)
( 400	81.1	81.1	77.8	79.6	78.6	81.3	81.6	73.9	70.5	72.2	75.0	74.7	72.3	70.8	67.3	61.0	57.5	54.2	53.6	)
( 500	78.3	78.3	75.0	76.7	75.9	78.5	78.8	70.9	68.4	69.8	72.6	72.4	70.0	68.5	64.9	58.7	55.3	52.0	51.4	)
( 630	75.4	75.3	72.1	73.6	72.9	75.5	75.8	67.9	66.0	67.4	70.1	70.1	67.7	66.1	62.4	56.3	53.0	49.7	49.2	)
( 800	72.3	72.1	69.2	70.4	69.9	72.3	72.6	64.8	63.5	64.9	67.5	67.7	65.2	63.6	59.8	53.7	50.6	47.3	46.6	)
( 1000	69.1	68.8	65.1	67.0	66.6	68.8	69.1	61.8	60.9	62.4	64.9	65.2	62.7	61.0	57.0	51.0	48.1	44.9	44.4	)
( 1250	65.6	65.3	63.0	63.6	63.2	65.2	65.3	58.7	58.3	59.7	62.1	62.6	60.1	58.3	54.2	48.1	45.4	42.3	41.8	)
( 1600	62.0	61.6	59.7	60.0	59.6	61.2	61.1	55.6	55.6	57.0	59.3	59.9	57.4	55.5	51.1	45.0	42.6	39.5	39.1	)
( 2000	58.3	57.8	56.4	56.3	56.0	57.1	56.6	52.5	52.8	54.2	56.4	57.1	54.6	52.6	47.9	41.7	39.7	36.7	36.3	)
( 2500	54.4	53.8	52.9	52.5	52.1	52.8	51.7	49.1	49.6	50.9	53.2	54.3	51.3	49.4	44.5	38.0	36.3	33.4	33.2	)
( 3150	50.4	49.8	49.3	48.6	48.2	48.4	46.7	45.4	46.1	47.4	49.7	50.5	47.7	45.8	40.8	34.1	32.7	29.9	29.6	)
( 4000	46.2	45.7	45.4	44.5	44.0	44.0	41.8	41.4	42.3	43.5	45.8	46.8	43.7	41.9	36.7	29.8	28.7	26.1	26.0	)
( 5000	41.8	41.4	41.2	40.2	39.7	39.6	37.0	37.1	38.0	39.1	41.6	42.6	39.4	37.6	32.5	25.5	24.4	21.8	21.6	)
( 6300	37.1	36.8	36.6	35.5	35.0	34.9	32.3	32.5	33.6	34.6	37.1	38.2	34.9	33.1	27.9	21.0	19.9	17.4	17.4	)
( 8000	32.2	32.2	32.0	30.9	30.6	30.3	28.0	28.5	29.8	30.8	33.0	34.1	31.1	29.2	23.7	17.5	16.4	13.8	13.7	)
( 10000	27.0	27.3	27.1	26.0	25.9	25.5	23.6	24.4	25.7	26.8	28.5	29.8	27.0	25.2	19.4	13.9	12.6	9.9	9.7	)
( 12500	21.5	22.2	22.0	20.9	21.1	20.4	19.0	20.0	21.4	22.4	23.9	25.1	22.7	20.9	15.1	10.3	8.7	5.7	5.4	)
( 16000	15.8	16.8	16.5	15.6	15.0	15.1	14.2	15.5	16.7	17.8	18.9	20.2	18.2	16.4	10.9	6.8	4.5	1.4	.8	)
( 20000	9.8	11.1	10.8	10.2	10.7	9.6	9.4	10.7	11.8	12.9	13.7	15.0	13.5	11.8	6.8	3.3	.3			)
( 25000	3.6	5.2	4.9	4.6	5.2	4.0	4.4	5.8	6.6	7.7	8.3	9.7	8.6	7.2	3.0					)

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:																		
	A-37B AIRCRAFT ENG. J85-17 GROUND RUNUP																		
DISTANCE (FEET)	METEOROLOGY:																		
	TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB																		
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	92.6	93.4	87.9	91.2	93.1	93.5	94.4	84.4	79.1	79.7	92.3	82.3	80.0	79.3	76.0	69.8	65.0	62.0	61.0
250	90.2	90.9	85.4	88.7	87.6	91.1	92.0	81.8	76.8	77.5	90.5	80.1	77.8	77.2	73.8	67.7	62.9	59.9	58.9
315	87.7	88.3	82.9	86.0	85.1	88.5	89.4	79.1	74.5	75.3	78.2	77.9	75.7	75.0	71.5	65.6	60.8	57.8	56.8
400	85.0	85.6	80.2	83.2	82.4	85.8	86.8	76.2	72.2	73.0	75.8	75.7	73.5	72.7	69.2	63.4	58.7	55.7	54.7
500	82.2	82.8	77.5	80.2	79.7	83.0	84.0	73.3	69.8	70.7	73.4	73.4	71.2	70.4	66.8	61.2	56.5	53.5	52.5
630	79.3	79.8	74.6	77.2	76.8	80.0	81.0	70.2	67.3	68.2	70.9	71.1	69.8	68.0	64.2	58.7	54.2	51.2	50.2
800	76.2	76.7	71.6	73.9	73.7	76.8	77.8	67.2	64.8	65.8	68.3	68.7	66.4	65.5	61.6	56.1	51.9	48.8	47.9
1000	73.0	73.4	68.6	70.6	70.4	73.4	74.3	64.1	62.3	63.2	65.7	66.2	63.9	62.9	59.9	53.4	49.4	46.4	45.5
1250	69.5	69.8	65.4	67.1	67.0	69.7	70.5	61.1	59.7	60.6	63.0	63.6	61.3	60.2	56.0	50.5	46.7	43.8	42.9
1600	65.9	66.1	62.2	63.6	63.5	65.8	66.3	58.0	57.0	57.8	60.1	60.9	58.5	57.4	53.0	47.4	43.9	41.0	40.2
2000	62.2	62.3	58.9	59.9	59.8	61.6	61.8	54.9	54.2	55.0	57.2	58.1	55.7	54.5	49.8	44.1	40.9	38.2	37.4
2500	58.3	58.4	55.4	56.1	55.9	57.3	56.9	51.5	51.0	51.7	54.0	55.0	52.4	51.3	46.3	40.5	37.6	35.0	34.3
3150	54.3	54.4	51.8	52.2	52.0	52.9	51.9	47.8	47.5	48.2	50.5	51.5	48.8	47.7	42.6	36.5	34.0	31.4	30.8
4000	49.4	49.4	47.4	47.4	47.1	47.7	45.9	43.3	43.4	44.1	46.5	47.6	44.7	43.4	38.2	31.8	29.7	27.3	26.8
5000	44.2	44.1	42.6	42.3	41.9	42.3	40.1	38.5	38.8	39.6	42.1	43.2	40.1	38.7	33.6	26.9	25.1	22.7	22.4
6300	38.7	38.6	37.5	36.9	36.5	36.7	34.3	33.5	34.1	35.0	37.4	38.6	35.3	33.9	28.6	22.0	20.4	18.0	17.8
8000	33.0	33.1	32.5	31.6	31.3	31.2	29.1	29.0	30.0	31.0	33.1	34.3	31.3	29.6	24.1	18.0	16.6	14.1	13.9
10000	27.0	27.3	27.1	26.0	25.9	25.5	23.6	24.4	25.7	26.8	28.5	29.8	27.0	25.2	19.4	13.9	12.6	9.9	9.7
12500	21.5	22.2	22.0	20.9	21.1	20.4	19.0	20.0	21.4	22.4	23.9	25.1	22.7	20.9	15.1	10.3	8.7	5.7	5.4
16000	15.8	16.8	16.5	15.6	16.0	15.1	14.2	15.5	16.7	17.8	18.9	20.2	18.2	16.4	10.9	6.8	4.5	1.4	.8
20000	9.8	11.1	10.8	10.2	10.7	9.6	9.4	10.7	11.8	12.9	13.7	15.0	13.5	11.8	6.8	3.3	.3		
25000	3.6	5.2	4.9	4.6	5.2	4.0	4.4	5.8	6.6	7.7	8.3	9.7	8.6	7.2	3.0				

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: A-17P AIRCRAFT  
 ENG. J65-17  
 GROUND RUNUP  
 OPERATION: IDLE, 46% RPM SINGLE ENGINE  
 METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB  
 IDENTIFICATION: OMEGA 8.2 TEST 74-004-014 RUN 01 AIRCRAFT CODE 004 OPERATION CODE 02017 PROFILE VERSION A 18 DEC 75 PAGE J1

	10	20	30	40	50	60	70	80	90	100	110
A											
V											
L											
G											
E											
I											
N											
D											
E											
G											
R											
E											
E											
S											

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: AIRCRAFT CODE 004																		
A-37B AIRCRAFT ( ENGINE RUNUP, 85% RPM ) TEMP = 59 F ) OPERATION CODE 01018																		
ENG. J85-17 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																		
GROUND RUNUP ( ) REL HUMID = 70 % ) 12 FEB 76																		
( ) DELTA N = -3.0 JR ) PAGE 01																		
BAND CENTER																		
FREQ (HZ)																		
ANGLE (DEGREES)																		
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
90	07	68	69	70	71	71	72	73	76	77	80	82	82	83	81	79	69	59
03	69	68	70	72	73	74	74	74	77	81	83	85	87	87	84	79	69	59
00	70	71	72	74	74	76	77	77	79	82	86	89	90	89	84	77	67	57
100	71	72	73	74	75	77	78	79	80	83	86	91	92	90	82	73	63	53
125	74	76	76	78	79	80	81	83	83	86	89	92	95	91	82	75	65	55
160	75	76	77	80	81	82	83	84	87	92	98	98	98	90	76	73	63	53
200	76	78	81	82	84	84	85	85	87	89	93	98	98	90	78	78	68	58
250	78	81	83	84	85	86	87	88	91	93	97	97	98	87	76	76	66	56
315	79	81	83	84	85	86	87	88	91	93	97	97	98	85	72	62	52	
400	80	81	82	83	84	85	86	87	89	92	97	97	98	82	68	66	56	46
500	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
600	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
800	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
1000	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
1250	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
1600	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
2000	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
3150	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
4000	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
5000	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
6300	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
8000	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
10000	81	82	83	84	85	86	87	88	90	92	97	97	98	82	68	66	56	46
OVERALL	89	90	91	92	92	93	94	95	97	99	102	105	106	99	91	86	76	66

XXX = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNL)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	101.2	104.0	106.0	107.5	109.1	110.5	111.5	113.0	114.0	114.6	115.0	115.0	114.1	114.0	105.4	94.0	91.6	81.0	70.2	
250	99.1	101.9	103.9	105.5	106.9	108.3	109.3	110.3	112.0	112.4	112.4	112.4	112.4	103.3	91.8	89.4	78.7	67.9		
315	96.7	99.5	101.5	103.3	104.6	105.9	107.0	108.6	109.9	110.3	110.3	110.3	101.1	89.7	87.2	76.5	65.6			
400	94.3	97.1	99.4	101.5	102.3	103.7	104.7	106.3	107.7	108.1	108.1	98.9	87.3	84.9	74.2	63.1				
500	91.8	94.6	96.8	98.5	99.8	102.2	103.9	105.4	105.6	96.5	84.8	82.5	71.7	60.5						
630	89.3	92.0	94.0	95.9	97.3	99.7	101.4	103.0	103.5	94.0	82.2	79.9	69.1	57.9						
800	86.6	89.3	91.3	93.2	94.6	97.0	98.8	100.6	101.0	91.5	79.4	77.3	66.6	55.1						
1000	83.7	86.6	88.6	90.4	91.7	94.1	95.1	98.1	98.1	88.3	76.7	74.6	63.3	52.1						
1250	80.6	83.3	85.3	87.3	88.6	91.1	92.2	95.4	95.4	85.3	73.5	71.6	60.5	49.6						
1500	77.4	79.9	81.9	83.9	85.1	88.0	89.0	92.5	92.5	82.8	70.1	68.2	56.9	43.9						
2000	74.3	76.0	77.2	78.9	80.2	83.0	84.0	88.5	88.5	79.0	66.4	64.7	53.3	39.7						
2500	70.8	72.3	73.4	75.0	76.3	79.0	80.0	84.6	84.6	75.6	62.1	60.5	48.6	33.7						
3150	66.5	68.3	69.2	70.9	72.1	74.5	75.7	81.3	81.3	71.2	57.1	55.7	43.3	26.9						
4000	62.7	64.1	65.0	66.7	68.0	70.7	71.7	76.5	76.5	66.2	51.6	50.1	36.3	17.2						
5000	57.8	59.1	59.9	61.6	62.9	65.4	66.4	71.2	71.2	60.9	45.7	43.3	27.5	7.5						
6300	52.6	54.0	54.7	56.4	57.7	60.1	61.1	65.7	65.7	55.5	39.0	35.8	15.3							
8000	47.9	49.3	49.2	50.9	52.1	54.9	55.9	60.2	60.2	51.4	32.9	30.4	7.5							
10000	42.5	44.2	43.9	45.5	46.0	48.8	49.3	53.2	53.2	40.7	25.4	24.3								
12500	38.4	39.3	39.4	40.1	41.3	44.0	44.4	48.1	48.1	33.3	17.1	16.4								
15000	34.3	34.5	34.6	35.4	36.1	38.8	39.1	42.5	42.5	27.9	8.8	8.5								
20000	29.5	29.2	29.3	29.8	30.3	32.5	32.8	36.3	36.3	20.9	4.4	4.6								
25000	24.8	24.8	24.8	25.3	25.8	27.5	27.7	30.8	30.8	16.3	1.6	1.3								

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TON-CORRECTED, PERCEIVED NOISE LEVEL (PN03)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	102.1	102.1	104.3	105.1	102.3	105.0	107.5	106.6	107.8	109.1	111.5	113.0	114.1	114.6	105.4	94.0	92.2	81.5	70.8
315	99.0	102.9	102.9	103.1	102.9	103.3	104.4	105.5	106.9	109.3	110.3	112.0	112.0	103.3	91.8	90.0	79.3	68.5	
430	97.6	100.2	100.6	100.9	100.5	101.5	102.1	103.3	104.6	107.0	108.6	109.9	110.3	101.1	89.7	87.7	77.0	66.1	
545	95.2	99.2	99.2	98.4	98.1	98.8	99.7	100.9	102.3	104.7	106.3	107.7	108.1	98.9	87.3	85.5	74.7	63.7	
660	92.7	95.7	95.7	95.9	95.6	96.1	97.2	98.5	99.8	102.2	103.9	105.4	105.8	96.5	84.8	83.1	72.3	61.1	
775	90.2	93.1	93.2	93.3	92.9	93.4	94.7	95.9	97.3	99.7	101.4	103.0	103.5	94.0	82.2	80.4	69.7	58.4	
890	87.5	90.3	90.4	90.6	90.2	90.8	91.9	93.2	94.6	97.0	98.8	100.6	101.0	91.5	79.4	77.8	67.1	55.6	
1005	84.8	87.4	87.6	87.7	87.3	87.8	89.1	90.5	91.7	94.1	96.1	98.1	98.4	88.8	76.7	75.2	64.4	52.7	
1120	81.9	84.3	84.5	84.6	84.2	84.9	86.2	87.3	88.8	91.1	93.2	95.4	95.6	85.8	73.5	72.1	61.0	49.1	
1235	79.3	81.6	81.7	81.7	81.3	81.9	83.2	84.4	85.9	88.0	90.0	92.5	92.7	82.8	70.1	68.8	57.4	44.5	
1350	75.1	77.4	77.5	77.5	77.1	77.7	78.9	80.1	81.2	82.8	84.9	87.5	87.7	79.6	66.4	65.3	53.9	40.3	
1465	71.7	73.8	73.8	73.8	73.4	74.0	75.2	76.3	77.4	78.9	81.0	83.0	83.0	75.6	62.1	61.1	49.2	34.2	
1580	67.8	69.8	69.8	69.8	69.4	70.1	71.3	72.4	73.1	74.5	76.7	78.9	78.6	71.2	57.1	56.2	43.5	27.4	
1695	63.4	65.4	65.4	65.4	65.0	65.4	66.6	67.6	68.3	69.7	72.1	74.3	74.0	66.2	51.6	50.5	38.7	23.6	
1810	59.3	61.3	61.3	61.3	60.9	61.3	62.5	63.4	64.0	65.4	67.2	69.4	69.0	60.9	45.7	43.7	27.9	17.8	
1925	54.9	56.9	56.9	56.9	56.5	56.9	58.1	59.0	59.3	60.7	62.0	64.2	63.8	55.5	39.0	36.0	16.1	11.1	
2040	50.1	52.1	52.1	52.1	51.7	52.1	53.3	54.2	54.9	57.0	59.7	62.0	61.6	51.4	32.9	30.5	7.6	2.6	
2155	42.2	44.2	44.2	44.2	43.8	44.2	45.4	46.3	47.0	49.1	51.6	53.9	53.5	40.7	25.4	24.3			
2270	30.4	30.2	30.4	30.7	30.3	30.3	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	17.1	16.4			
2385	30.3	31.7	31.5	32.0	32.9	33.5	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	8.8	8.5			
2500	24.5	24.2	24.3	24.3	24.1	24.1	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	4.4	4.6			
2615	7.5	9.8	11.3	11.0	10.2	13.7	15.3	19.4	22.7	26.0	29.8	36.1	36.1	16.3					

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>190	
200	88.4	93.7	90.4	91.1	91.2	90.8	91.3	92.5	94.4	95.9	98.1	100.2	101.0	102.0	91.3	78.9	77.4	67.4	57.4	
250	86.3	89.5	86.2	89.0	89.0	88.7	89.1	90.4	92.3	93.7	96.0	98.1	98.9	99.3	89.3	76.8	75.4	65.4	55.4	
315	84.1	88.3	80.1	86.8	86.8	86.5	87.0	88.2	90.1	91.6	93.8	95.9	96.8	97.8	87.2	74.8	73.3	63.3	53.3	
400	81.9	84.1	83.3	84.0	84.0	84.3	84.8	85.0	87.9	89.4	91.6	93.8	94.7	95.7	85.1	72.7	71.2	61.2	51.2	
500	79.7	81.8	81.0	82.4	82.4	82.0	82.5	83.0	85.0	87.1	89.4	91.5	92.6	93.5	82.9	70.5	69.1	59.1	49.1	
630	77.4	79.4	79.3	80.0	80.1	79.7	80.2	81.5	83.3	84.8	87.1	89.2	90.3	91.3	80.6	68.2	66.8	56.8	46.8	
800	75.1	77.3	77.7	77.7	77.7	77.3	77.3	79.1	81.0	82.4	84.7	86.9	88.0	89.0	78.3	65.8	64.5	54.5	44.5	
1000	72.7	74.6	74.5	75.3	75.3	74.9	75.2	76.7	78.5	79.9	82.2	84.4	85.7	86.7	75.8	63.3	62.1	52.1	42.1	
1250	70.2	72.0	72.7	72.7	72.7	72.3	73.0	74.2	76.0	77.4	79.7	81.9	83.1	84.1	73.2	60.5	59.3	49.3	39.3	
1600	67.7	69.4	69.3	70.1	70.1	69.7	70.4	71.5	73.3	74.7	77.0	79.2	80.5	81.5	70.4	57.5	56.5	46.5	36.5	
2000	65.0	66.6	66.6	67.4	67.3	67.0	67.7	68.8	70.6	71.3	74.2	76.4	77.8	78.8	67.6	54.4	53.5	43.5	33.5	
2500	62.1	63.6	63.6	64.3	64.3	64.0	64.7	65.8	67.5	68.7	71.1	73.3	74.5	75.7	64.2	50.9	49.9	39.9	29.9	
3150	58.9	60.3	60.4	61.0	61.0	60.7	61.5	62.4	64.1	65.3	67.7	70.0	70.8	72.2	60.0	46.9	46.0	36.0	26.0	
4000	55.3	56.7	56.8	57.4	57.4	57.1	57.3	58.7	60.4	61.4	63.9	66.3	66.8	68.5	56.6	42.6	41.6	31.6	21.6	
5000	51.2	52.7	52.8	53.3	53.3	53.1	53.8	54.5	56.2	57.2	59.8	62.2	62.4	64.3	52.3	38.1	36.9	26.9	16.9	
6300	48.0	49.3	49.5	49.9	49.9	49.7	49.4	50.1	51.8	52.7	55.3	57.7	57.8	59.9	47.7	33.5	32.1	22.1	12.1	
8000	42.9	44.3	44.4	44.9	44.9	44.8	45.4	46.2	47.0	48.6	51.3	53.6	54.1	56.1	44.1	30.0	28.7	18.7	8.7	
10000	38.7	39.9	40.1	40.6	40.7	40.5	41.3	42.0	43.0	44.2	46.9	49.1	50.3	52.0	40.1	26.4	25.1	15.1	5.1	
12500	34.2	35.1	35.3	35.9	36.0	35.8	36.7	37.4	39.0	39.4	42.2	44.3	45.1	47.5	36.0	22.7	21.3	11.3	1.3	
16000	29.1	29.9	30.1	30.8	30.9	30.7	31.7	32.5	34.0	34.4	37.2	39.1	41.0	42.7	31.6	18.9	17.3	7.3		
20000	23.6	24.3	24.4	25.3	25.4	25.1	26.1	27.0	28.6	29.1	31.8	33.6	36.8	37.6	26.9	14.9	13.0	3.0		
25000	17.4	18.2	18.3	19.3	19.4	19.1	20.1	21.1	22.7	23.3	25.9	27.3	31.6	32.1	22.1	10.9	8.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT AIRCRAFT

ENGINE J09-17

GRUNN RUNUP

OPERATIONS

ENGINE RUNUP, 65% RPM

SINGLE ENGINE

METEOROLOGICAL

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 75 %

DELTA N = -3.0 DB

IDENTIFICATION

OMEGA A.2

TEST 74-J04-0+0

RUN 01

AIRCRAFT CODE 004

OPERATION CODE 01018

PROFILE VERSION A

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PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	89.3	91.8	91.3	92.0	92.1	91.7	92.2	93.2	94.4	95.9	98.1	100.2	101.0	102.0	91.3	78.9	78.0	68.0	58.0
250	87.2	89.6	89.1	89.9	89.0	89.0	90.0	91.0	92.3	93.7	96.0	98.1	99.3	99.9	89.3	76.8	75.9	65.9	55.9
315	85.0	87.4	87.0	87.7	87.3	87.4	88.3	89.3	90.1	91.6	93.8	95.9	96.8	97.8	87.2	74.8	73.9	63.9	53.9
400	82.6	85.1	84.8	85.5	85.6	85.2	86.0	86.7	87.9	89.4	91.6	93.8	94.7	95.7	85.1	72.7	71.8	61.8	51.8
500	80.6	82.9	82.5	83.3	83.4	82.9	83.4	84.4	85.0	87.1	89.4	91.5	92.5	93.5	82.9	70.5	69.7	59.7	49.7
630	78.3	80.5	80.2	81.0	81.1	80.5	81.1	82.1	83.3	84.8	87.1	89.2	90.3	91.3	80.0	68.2	67.4	57.4	47.4
800	76.0	78.1	77.8	78.6	78.7	78.2	78.8	79.7	81.0	82.4	84.7	86.3	87.0	88.0	78.3	65.8	65.1	55.1	45.1
1000	73.6	75.6	75.4	76.2	76.3	75.8	76.4	77.3	78.5	79.9	82.2	84.4	85.7	86.7	75.8	63.3	62.6	52.6	42.6
1250	71.1	73.1	72.9	73.7	73.7	73.2	73.8	74.8	76.0	77.4	79.7	81.9	83.1	84.1	73.2	60.5	59.9	49.9	39.9
1500	68.5	70.5	70.2	71.0	71.0	70.5	71.3	72.2	73.3	74.7	77.0	79.2	80.5	81.5	70.4	57.5	57.0	47.0	37.0
2000	67.7	67.5	67.5	68.3	68.3	67.9	68.6	69.4	70.0	71.9	74.2	76.4	77.8	78.9	67.0	54.4	54.0	44.0	34.0
2500	65.1	64.7	64.6	65.3	65.3	64.9	65.6	66.4	67.5	68.7	71.1	73.3	74.5	75.7	64.2	50.9	50.5	40.5	30.5
3150	61.4	61.3	61.3	62.0	62.0	61.6	62.3	63.0	64.1	65.3	67.7	70.0	70.8	72.2	63.6	46.9	46.5	36.5	26.5
4000	57.0	57.5	57.5	58.1	58.2	57.9	58.5	59.2	60.4	61.4	63.9	66.3	66.8	68.5	56.0	42.6	42.0	32.0	22.0
5000	51.7	53.3	53.3	53.9	53.9	53.6	54.3	54.9	56.4	57.2	59.8	62.2	62.4	64.3	52.3	38.1	37.2	27.2	17.2
6300	47.2	48.8	48.8	49.3	49.3	49.1	49.8	50.4	51.8	52.7	55.3	57.7	57.8	59.9	47.7	33.5	32.3	22.3	12.3
8000	43.1	44.5	44.5	45.1	45.2	44.9	45.7	46.3	47.8	48.0	51.3	53.5	54.1	56.1	44.1	30.0	28.8	18.8	8.8
10000	38.7	39.9	39.9	40.6	40.7	40.5	41.3	42.0	43.5	44.2	46.9	49.1	49.3	52.0	40.1	26.4	25.1	15.1	5.1
12500	34.2	35.1	35.3	35.9	36.0	35.8	36.7	37.4	39.0	39.4	42.2	44.4	44.4	47.5	36.0	22.7	21.3	11.3	1.3
15000	29.1	29.9	30.1	30.8	30.9	30.7	31.7	32.5	34.1	34.4	37.2	39.1	39.1	42.7	31.0	18.9	17.3	7.3	0.3
20000	23.6	24.3	24.4	25.3	25.3	25.1	26.1	27.0	28.6	29.1	31.8	33.0	33.0	35.8	26.9	14.9	13.0	3.0	0.0
25000	17.4	18.0	18.2	19.3	19.3	19.1	20.1	21.1	22.7	23.3	25.9	27.8	27.8	32.1	22.1	10.9	9.5	0.5	0.0

SPR DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 SOURCE/SUBJECT  
 A-37B AIRCRAFT  
 ENGINE J95-17  
 GROUND RUNUP  
 OPERATIONS  
 ENGINE RUNUP, 65% RPM  
 SINGLE ENGINE  
 METEOROLOGY  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DB  
 IDENTIFICATION  
 OMEGA 8.2  
 TEST 74-904-040  
 RUN 01  
 AIRCRAFT CODE 004  
 OPERATION CODE 01019  
 PROFILE VERSION A  
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	20	30	40	50	60	70	80	90	100	110	120
A											
M											
L											
U											
7											
I											
M											
J											
C											
Y											
X											
Z											
S											
10											
11											
12											
13											
14											
15											
16											
17											
18											

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-040																			
KUN 02																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.038																			
NOISE SOURCE/SUBJECT:																			
OPERATION:																			
MILITARY POWER, ALL 4 ENGINES																			
SINGLE ENGINE																			
AIRCRAFT CODE 004																			
OPERATION CODE 01004																			
PROFILE VERSION A																			
12 FEB 76																			
PAGE 02																			
GROUND KUNUP																			
AIRCRAFT CODE 004																			
OPERATION CODE 01004																			
PROFILE VERSION A																			
12 FEB 76																			
PAGE 02																			
BAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	74	72	74	74	75	77	78	80	81	83	87	91	95	95	91	88	84	74	64
63	77	76	76	78	78	80	80	81	83	85	88	92	97	96	94	88	83	73	63
80	77	77	77	79	81	82	82	82	84	87	90	95	99	99	95	87	79	69	59
100	76	77	79	81	82	84	84	85	85	88	92	97	100	100	95	85	74	64	54
125	80	80	83	84	86	87	87	87	87	88	90	93	95	100	94	85	77	67	57
160	81	82	84	85	87	89	89	89	90	91	93	95	99	103	93	84	76	66	56
200	83	83	87	87	89	90	91	91	91	93	96	101	106	106	91	82	78	68	58
250	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
315	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
400	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
500	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
630	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
800	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
1000	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
1250	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
1600	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
2000	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
2500	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
3150	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
4000	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
5000	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
6300	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
8000	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
10000	84	86	90	92	94	94	94	94	94	96	100	104	109	107	89	81	70	60	51
OVERALL	98	98	101	101	101	101	103	104	106	108	112	115	117	118	103	95	90	80	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)											IDENTIFICATION:							
	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	106.3	100.9	112.7	113.0	113.3	112.3	115.9	117.8	119.5	121.9	123.7	127.8	129.1	130.1	109.8	103.5	97.6	87.1	76.7
250	106.2	100.7	110.5	110.8	111.0	110.7	113.0	115.6	117.2	119.7	123.5	125.6	126.9	127.9	107.7	101.3	95.4	84.9	74.5
315	104.0	100.6	108.3	108.8	108.4	111.4	113.3	114.9	117.3	121.2	123.3	124.6	125.6	105.5	99.0	93.1	82.7	72.2	
400	101.8	102.3	100.9	100.3	100.5	106.1	109.0	110.9	112.6	115.0	118.8	121.0	122.3	123.3	103.3	96.7	90.9	80.4	69.9
500	99.5	100.1	103.0	103.9	104.0	103.7	100.0	108.5	110.1	112.5	116.4	118.0	119.9	121.0	101.0	94.3	88.5	78.1	67.5
630	97.1	97.7	101.0	101.3	101.5	101.1	104.1	105.9	107.6	110.0	113.9	116.1	117.4	118.5	98.7	91.7	86.1	75.6	65.0
800	94.6	95.2	98.5	98.8	99.0	98.0	101.4	103.2	104.9	107.3	111.2	113.4	114.8	115.9	96.2	89.0	83.6	73.1	62.4
1000	92.1	92.7	95.9	96.2	96.0	95.7	98.0	100.4	102.0	104.4	108.4	110.6	112.0	113.2	93.6	86.1	81.0	70.5	59.6
1250	89.4	90.0	93.1	93.5	93.0	92.6	95.5	97.3	98.9	101.4	105.3	107.7	109.2	110.2	90.7	83.1	78.2	67.7	56.6
1600	86.6	87.2	90.3	90.6	90.7	89.0	92.2	94.0	95.6	98.1	102.0	104.6	106.3	107.1	87.7	79.8	75.3	64.7	53.3
2000	83.6	84.3	87.3	87.6	87.5	86.5	89.1	90.4	92.1	94.7	98.8	101.2	103.2	104.4	84.5	76.6	72.2	61.4	49.8
2500	80.3	81.1	83.0	83.8	83.9	82.9	85.3	86.5	88.5	91.9	94.9	97.0	99.3	100.0	81.0	72.7	68.2	57.3	45.0
3150	76.0	77.2	79.3	79.0	79.3	79.2	81.0	82.5	84.5	88.9	90.8	93.5	95.1	96.9	77.0	68.2	63.7	52.2	39.6
4000	72.7	73.4	74.6	75.0	75.0	75.1	76.7	78.1	80.1	82.4	86.3	88.0	90.4	92.9	72.5	63.2	58.6	46.5	33.1
5000	69.0	69.3	69.9	70.2	70.6	70.6	72.2	73.2	75.2	77.0	81.4	84.2	85.8	88.4	67.6	58.0	53.0	40.5	23.5
6300	63.1	63.6	64.9	65.2	65.2	65.6	67.2	68.1	70.1	72.5	76.0	78.2	81.0	83.7	62.5	52.5	47.3	33.9	14.0
8000	59.1	59.5	60.8	61.0	61.0	61.2	62.7	63.9	65.9	68.4	71.7	74.4	76.5	79.4	58.4	47.7	42.7	28.0	4.5
10000	54.4	55.1	56.3	56.3	56.4	57.9	59.4	61.7	63.9	67.2	69.5	71.9	74.0	74.0	42.2	37.1	31.6	19.8	
12500	49.3	50.1	51.1	51.1	51.2	53.0	54.5	56.6	59.1	62.4	64.6	67.2	69.5	69.5	35.6	31.6	23.7	11.8	
16000	43.0	44.4	45.7	45.5	45.5	47.3	48.9	51.3	53.3	57.1	59.3	62.1	63.5	63.5	29.0	23.7	18.5	3.9	
20000	36.2	37.5	38.0	38.8	38.5	38.0	40.0	42.0	45.0	47.8	51.3	53.0	56.0	57.0	18.5	13.1			
25000	28.5	29.4	31.1	31.4	31.2	30.3	32.0	34.4	37.1	40.4	44.0	47.5	50.6	51.2	8.0				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
4-378 AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. J05-17	DELTA N = 0.0 DB																		
	ANGLE (DEGREES)																		
GROUND RUNUP	DISTANCE (FEET)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	106.3	100.9	113.3	113.6	113.3	112.9	115.9	117.8	119.5	121.3	125.7	127.8	129.1	130.1	109.8	103.5	97.6	87.1	76.7
250	106.2	100.7	111.0	111.4	111.0	110.7	113.6	115.6	117.2	119.7	123.5	125.6	126.9	127.9	107.7	101.3	95.4	84.9	74.5
315	104.0	104.6	108.8	109.1	108.8	108.4	111.4	113.3	114.9	117.3	121.2	123.3	124.8	125.6	105.5	99.0	93.1	82.7	72.2
400	101.8	102.3	106.5	106.8	106.5	106.1	109.0	110.9	112.6	115.0	118.8	121.0	122.3	123.3	103.3	96.7	90.9	80.4	69.9
500	99.5	100.1	104.0	104.4	104.0	103.7	106.6	108.5	110.1	112.5	116.4	118.5	119.9	121.0	101.0	94.3	88.5	78.1	67.5
630	97.1	97.7	101.7	101.9	101.7	101.1	104.1	105.9	107.6	110.0	113.9	116.1	117.4	118.5	98.7	91.7	86.1	75.6	65.0
800	94.6	95.2	99.0	99.3	99.0	98.5	101.4	103.2	104.9	107.3	111.2	113.4	114.9	115.9	96.2	89.0	83.6	73.1	62.4
1000	92.1	92.7	96.4	96.7	96.0	95.7	98.5	100.4	102.0	104.4	108.4	110.6	112.0	113.2	93.0	86.1	81.0	70.5	59.6
1250	89.4	90.0	93.7	94.0	93.0	92.6	95.5	97.3	98.9	101.4	105.4	107.7	109.2	110.2	90.7	83.1	79.2	67.7	56.6
1600	86.6	87.2	90.8	91.1	90.7	89.6	92.2	94.0	95.6	98.1	102.0	104.6	106.3	107.1	87.7	79.8	75.3	64.7	53.3
2000	83.6	84.3	87.8	88.1	88.5	88.5	91.1	90.4	92.1	94.7	98.6	101.2	103.2	104.0	84.5	76.6	72.2	61.4	49.8
2500	80.3	81.1	84.0	84.3	84.9	84.9	87.3	86.5	88.5	90.9	94.9	97.6	99.3	100.6	81.0	72.7	68.2	57.3	45.0
3150	76.8	77.2	79.9	80.1	79.3	79.2	81.0	82.5	84.5	86.9	90.0	93.5	95.1	95.9	77.0	68.2	63.7	52.2	39.5
4000	72.7	73.4	75.1	75.4	75.0	75.1	76.7	78.1	80.1	82.4	86.3	89.0	90.4	92.9	72.5	63.2	58.6	46.6	33.1
5000	68.0	68.3	70.2	70.5	70.2	70.6	72.2	73.2	75.2	77.6	81.4	84.2	85.8	88.4	67.0	58.0	53.0	40.5	23.5
6300	63.1	63.6	65.1	65.4	65.2	65.6	67.2	68.1	70.1	72.5	76.0	79.2	81.0	83.7	62.5	52.5	47.3	33.9	14.0
8000	59.0	59.5	60.9	61.1	61.0	61.2	62.7	63.9	65.9	68.1	71.7	74.4	76.5	79.4	58.4	47.7	42.7	28.0	4.6
10000	54.4	55.1	56.3	56.3	56.3	56.4	57.9	59.4	61.5	63.9	67.2	69.5	71.9	74.5	54.2	42.2	37.1	19.8	
12500	49.3	50.1	51.3	51.1	51.1	51.2	53.0	54.5	56.6	59.1	62.4	64.8	67.2	69.5	49.3	35.6	31.6	11.9	
16000	43.0	44.4	45.7	45.5	45.6	47.3	48.9	51.3	53.8	57.1	60.4	63.8	67.1	69.5	43.0	29.0	23.7	3.9	
20000	36.2	37.5	38.8	38.8	38.5	40.8	42.6	45.0	47.9	51.3	54.6	57.9	61.2	63.6	36.2	18.5	13.1		
25000	28.5	29.4	31.1	31.4	30.2	30.8	32.8	34.4	37.1	40.4	43.7	47.0	50.3	51.2	28.5	8.0	2.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OASL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATIONS					METEOROLOGY					IDENTIFICATION								
	AIRCRAFT	MILITARY POWER, 100% RPM	SINGLE ENGINE	TEMP	BAR PRESS = 29.92 IN HG	REL HUMID = 70 %	DELTA N = 0.0 03	AIRCRAFT CODE 004	OPERATION CODE 01004	PROFILE VERSION A	12 FEB 76	PAGE F2	OMEGA 8.2	TEST 74-004-040	RUN 02				
ENGINE J85-17	GROUND RUNUP																		
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	97.6	98.4	100.5	101.7	100.7	100.5	102.9	104.3	106.1	108.6	112.4	114.8	116.3	118.5	96.3	88.5	84.0	74.0	64.0
250	95.7	96.3	98.6	98.6	98.5	98.4	100.7	102.2	103.9	106.4	110.2	112.7	114.2	115.3	94.2	86.4	81.9	71.9	61.9
315	93.6	94.2	96.3	96.5	96.4	96.3	98.6	100.0	101.7	104.2	108.0	110.5	112.1	114.2	92.1	84.3	79.8	69.8	59.8
400	91.5	92.0	94.1	94.3	94.2	94.1	96.3	97.7	99.5	102.0	105.8	108.4	109.9	112.0	90.0	82.1	77.7	67.7	57.7
500	89.3	89.9	91.9	92.1	92.0	91.9	94.1	95.4	97.2	99.7	103.5	106.1	107.7	109.8	87.8	79.9	75.5	65.5	55.5
630	87.1	87.7	89.7	89.9	89.7	89.6	91.8	93.1	94.8	97.3	101.2	103.8	105.4	107.5	85.6	77.6	73.3	63.3	53.3
800	84.9	85.4	87.3	87.5	87.4	87.3	89.4	90.7	92.4	94.9	98.8	101.4	103.0	105.2	83.3	75.2	71.0	61.0	51.0
1000	82.6	83.1	85.0	85.2	85.0	84.9	87.0	88.2	89.9	92.4	96.3	99.0	100.6	102.9	80.9	72.8	68.6	58.6	48.6
1250	80.2	80.7	82.5	82.7	82.5	82.4	84.4	85.6	87.3	89.8	93.7	96.4	98.1	100.4	78.4	70.2	66.1	56.1	46.1
1500	77.7	78.2	80.0	80.1	80.0	79.9	81.9	83.1	84.8	87.1	91.0	93.7	95.4	97.8	75.9	67.5	63.5	53.5	43.5
2000	75.1	75.7	77.3	77.5	77.2	77.2	79.1	80.1	81.8	84.3	88.2	90.8	92.6	95.1	73.2	64.7	60.7	50.7	40.7
2500	72.3	72.9	74.3	74.5	74.3	74.3	76.1	77.0	78.8	81.2	85.0	87.7	89.5	92.2	70.3	61.5	57.5	47.5	37.5
3150	69.2	69.8	71.0	71.2	71.1	71.1	72.8	73.6	75.4	77.8	81.6	84.3	86.2	89.1	67.0	58.1	54.0	44.0	34.0
4000	65.7	66.3	67.4	67.5	67.5	67.5	69.2	69.9	71.7	74.1	77.9	80.7	82.5	85.7	63.4	54.3	50.1	40.1	30.1
5000	63.7	64.4	65.3	65.4	65.3	65.3	67.0	67.5	69.3	71.7	75.6	78.0	79.5	81.8	59.3	50.1	45.7	35.7	25.7
6300	57.4	58.1	59.0	59.0	59.2	59.3	60.0	61.3	63.1	65.4	69.1	72.2	74.1	77.6	54.9	45.6	41.2	31.2	21.2
8000	53.5	54.2	55.0	55.1	55.2	55.3	56.0	57.3	59.0	61.3	65.0	67.8	69.9	73.4	51.2	41.7	37.5	27.5	17.5
10000	49.3	50.0	50.7	50.7	50.8	50.9	52.4	52.9	54.6	56.9	60.6	63.1	65.3	68.8	47.1	37.5	33.6	23.6	13.6
12500	44.7	45.3	46.0	46.1	46.1	46.2	47.7	48.2	50.0	52.2	55.8	58.1	60.4	63.7	42.7	33.1	29.4	19.4	9.4
15000	39.5	40.1	41.0	40.9	40.9	40.9	42.5	43.1	44.9	47.2	50.6	52.7	55.1	58.0	37.9	28.3	24.9	14.9	4.9
20000	33.8	34.4	35.4	35.4	35.2	35.2	36.8	37.5	38.4	41.8	45.3	47.0	49.5	51.8	32.7	23.3	20.0	10.0	
25000	27.5	28.0	29.3	29.3	28.9	28.9	30.0	31.5	33.3	35.8	39.3	41.0	43.5	45.0	27.2	18.0	14.7	4.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TIME-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DPA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	97.9	98.4	101.1	101.3	100.7	100.5	102.3	104.3	106.1	108.6	112.4	114.3	116.3	118.5	120.3	121.9	123.0	124.0	124.0
315	93.6	94.2	96.8	97.0	96.4	95.3	98.0	101.7	104.2	108.0	110.2	112.7	114.2	116.3	118.5	120.3	121.9	123.0	124.0
400	91.5	92.0	94.6	94.9	94.2	94.1	96.3	97.7	99.5	102.0	105.6	108.4	109.9	112.5	114.2	116.3	118.5	120.3	121.9
500	89.3	89.9	92.4	92.0	92.0	91.3	94.1	95.4	97.2	99.7	103.5	106.1	107.7	109.8	112.5	114.2	116.3	118.5	120.3
630	87.1	87.7	90.2	90.4	89.7	89.3	91.8	93.1	94.0	97.3	101.2	103.3	105.4	107.6	109.8	112.5	114.2	116.3	118.5
800	84.9	85.4	87.9	88.1	87.4	87.3	89.4	90.7	92.4	94.9	98.6	101.4	103.0	105.2	107.6	110.0	112.5	114.2	116.3
1000	82.6	83.1	85.7	85.9	85.0	84.9	87.1	88.2	89.3	92.4	96.3	99.0	101.6	104.3	106.9	109.6	112.5	114.2	116.3
1200	80.2	80.7	83.3	83.2	82.5	82.4	84.4	85.0	87.3	89.9	93.7	96.4	99.1	101.4	104.4	106.1	109.1	112.5	114.2
1500	77.7	78.2	80.5	80.7	79.9	79.9	81.8	82.9	84.0	87.1	91.0	93.7	95.4	97.3	99.3	101.5	103.5	105.5	107.5
2000	72.3	72.9	75.3	75.0	74.3	74.3	76.1	77.0	78.1	81.2	84.2	87.0	89.2	91.2	93.2	95.7	97.7	100.7	102.7
2500	69.2	69.8	71.9	71.7	71.1	71.1	72.0	73.0	75.4	77.3	81.6	84.3	86.2	89.1	91.2	93.5	95.5	97.5	100.5
3000	65.7	66.3	68.3	68.0	67.5	67.5	69.2	69.9	71.7	74.1	77.9	80.7	82.5	85.7	87.0	89.1	91.1	93.1	95.1
5000	61.7	62.4	63.0	63.7	63.5	63.0	65.2	65.0	67.2	69.9	73.6	76.0	78.5	81.8	83.7	85.7	87.7	89.7	91.7
6300	57.4	58.1	59.1	59.3	59.2	59.3	60.8	61.3	63.1	65.4	69.1	72.2	74.1	77.6	79.3	81.2	83.2	85.2	87.2
8000	53.5	54.2	55.1	55.2	55.2	55.3	56.8	57.3	59.1	61.3	65.0	67.3	69.9	73.4	75.4	77.5	79.5	81.5	83.5
10000	49.3	50.0	50.7	50.8	50.9	50.9	52.4	52.9	54.0	55.3	58.3	60.6	63.1	65.3	67.6	69.6	71.6	73.6	75.6
12000	44.7	45.3	46.1	46.1	46.2	47.7	48.2	48.2	50.0	52.2	55.8	58.1	60.4	63.7	65.7	67.6	69.4	71.4	73.4
16000	39.5	40.1	41.0	40.9	40.9	42.5	43.1	44.9	47.2	50.8	52.7	55.1	58.0	60.3	62.3	64.3	66.3	68.3	70.3
20000	33.8	34.4	35.4	35.2	35.2	36.8	37.5	39.4	41.8	45.3	47.3	49.7	51.8	54.9	56.9	58.9	60.9	62.9	64.9
25000	27.5	28.0	29.3	28.9	28.9	30.6	31.5	33.3	35.8	39.3	41.0	43.5	45.0	47.6	49.0	51.2	53.2	55.2	57.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



( TABLE NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE )  
 ( DISTANCE = 250 FEET )  
 ( NOISE SOURCE/SUBJECT )  
 ( A-37C AIRCRAFT )  
 ( ENG. J55-17 )  
 ( GROUND RUNUP )  
 ( OPERATIONS )  
 ( MILITARY POWER, 100% RPM )  
 ( SINGLE ENGINE )  
 ( METEORLOGY: )  
 ( TEMP = 59 F )  
 ( BAR PRESS = 29.92 IN HG )  
 ( REL HUMID = 73 % )  
 ( DELTA N = 0.0 DB )  
 ( AIRCRAFT CODE 004 )  
 ( OPERATION CODE 01004 )  
 ( PROFILE VERSION A )  
 ( 12 FEB 76 )  
 ( PAGE J2 )  
 ( IDENTIFICATION: )  
 ( OMEGA 8.2 )  
 ( TEST 74-004-040 )  
 ( RUN 02 )

	30	40	50	60	70	80	90	100	110	120	130
A											
N											
G											
L											
I											
N											
D											
E											
G											
K											
E											
S											
136											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



	40	50	60	70	80	90	100	110	MEAN	SD
F 50	.	.	.	.	.	.	.	.	90.9	4.2
F 63	.	.	.	.	.	.	.	.	86.7	5.0
F 80	.	.	.	.	.	.	.	.	87.6	6.3
F 100	.	.	.	.	.	.	.	.	98.8	7.1
F 125	.	.	.	.	.	.	.	.	104.8	5.6
F 160	.	.	.	.	.	.	.	.	106.9	4.8
F 200	.	.	.	.	.	.	.	.	103.3	5.1
F 250	.	.	.	.	.	.	.	.	104.0	5.7
F 315	.	.	.	.	.	.	.	.	106.0	4.2
F 400	.	.	.	.	.	.	.	.	105.7	3.7
F 500	.	.	.	.	.	.	.	.	105.7	2.0
F 630	.	.	.	.	.	.	.	.	100.4	1.7
F 800	.	.	.	.	.	.	.	.	104.8	1.8
F 1000	.	.	.	.	.	.	.	.	103.5	1.9
F 1250	.	.	.	.	.	.	.	.	102.3	1.3
F 1600	.	.	.	.	.	.	.	.	101.9	1.8
F 2000	.	.	.	.	.	.	.	.	101.7	1.7
F 2500	.	.	.	.	.	.	.	.	100.9	1.5
F 3150	.	.	.	.	.	.	.	.	99.8	2.2
F 4000	.	.	.	.	.	.	.	.	98.7	2.3
F 5000	.	.	.	.	.	.	.	.	96.7	2.7
F 6300	.	.	.	.	.	.	.	.	96.9	3.0
F 8000	.	.	.	.	.	.	.	.	98.1	3.2
F 10000	.	.	.	.	.	.	.	.	97.4	4.8

AIRSPEED = 300 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 12  
 F-4 AFTERBURNER POWER 100 % RPM  
 TEMP = 59 F  
 REL HUMID = 70 %  
 IDENT# 0.6-031-101-060175  
 PNLT = 125.8 PNDB  
 PNL = 120.8 PNDB  
 ALT = 113.8 DBA  
 AL = 113.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECIFICS AS A FUNCTION OF SLANT DISTANCE (DB)\*

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

OPERATION: METEOROLOGY: A/C CODE: 031

AFTERBURNER POWER: TEMP = 59 F UPS CODE: 101

100% RPM: REL HUMID = 70% PROFILE VER: A

AIRSPEED = 300 KNOTS DELTA N = 3.0 03 06 JAN 76

PAGE: HI

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	101	101	102	113	119	121	118	119	120	120	120	121	120	119	118	118	118	118	118	118	119	118	122	128	134
250	99	99	100	111	117	119	116	117	118	118	118	118	118	116	116	116	116	116	116	116	117	116	119	125	131
315	97	98	109	115	117	117	117	117	116	116	116	117	116	114	114	114	114	114	114	114	114	113	116	121	127
400	95	96	107	113	115	115	115	115	115	115	115	115	115	112	111	111	111	111	111	111	111	111	113	118	122
500	93	94	105	111	113	109	111	112	112	112	112	113	111	110	109	109	109	109	109	109	109	107	110	114	118
600	91	92	103	109	111	107	109	110	110	110	111	109	108	107	107	107	107	107	106	106	106	104	106	109	112
800	89	89	101	107	109	107	107	108	108	108	108	109	107	106	105	104	104	104	104	103	102	101	102	104	105
1000	87	87	99	105	107	105	105	105	106	106	106	106	105	103	102	102	102	101	100	99	99	97	97	98	97
1200	85	85	88	97	103	105	101	102	104	104	104	104	104	102	101	100	99	98	96	95	92	91	91	88	88
1600	83	84	84	95	101	103	99	100	102	101	101	102	100	98	97	96	96	94	92	90	87	85	83	77	77
2000	81	81	81	93	99	101	97	98	100	99	99	99	98	96	94	93	93	91	88	85	81	78	73	63	63
2500	80	79	79	91	96	99	95	96	97	97	97	97	95	93	91	90	89	87	83	79	74	69	61	46	46
3150	81	77	77	89	94	96	93	94	95	94	94	94	92	90	88	87	85	82	77	71	66	58	46	26	26
4000	79	74	75	86	92	94	91	91	93	92	91	92	89	87	85	82	80	76	71	53	57	45	28	1	1
5000	77	72	73	84	90	92	88	89	90	89	89	89	86	83	81	78	75	70	63	53	45	29	6	6	6
6500	75	70	71	82	88	90	86	87	87	86	86	86	82	79	75	73	69	63	54	40	31	10	10	10	10
8000	72	68	69	80	85	87	83	84	85	84	84	82	82	78	75	71	67	62	54	42	25	13	13	13	13
10000	70	66	67	78	83	85	81	81	82	80	79	78	74	69	65	59	53	43	29	7	7	7	7	7	7
12000	69	64	64	75	81	82	78	78	79	77	75	73	69	63	58	51	43	30	12	12	12	12	12	12	12
16000	66	61	62	73	78	79	75	75	75	73	72	68	63	56	50	41	30	14	14	14	14	14	14	14	14
20000	64	59	59	70	75	76	72	71	71	68	65	62	56	48	42	29	15	15	15	15	15	15	15	15	15
25000	61	56	57	67	72	73	68	67	67	63	59	55	47	38	28	14	14	14	14	14	14	14	14	14	14

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE 1 SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
AIR-TO-GROUND PROPAGATION											
AIRCRAFT	OPERATION	METEOROLOGY	IDENTIFICATION	SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PMLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
	AFTERBURNER POWER = 100% RPM	TEMP = 59 F	A/C CODE: 031	200	134.0	134.0	148.2	148.2	132.3	133.2	136.2
		REL HUMID = 70%	OMEGA 6.5	250	131.9	131.9	145.4	145.4	130.4	131.3	134.4
		AIRSPED = 300 KNOTS	OPS CODE: 101	315	128.8	128.8	142.4	142.4	128.3	129.2	132.5
		DELTA N = 0.0 DB	PROFILE VER: A	400	125.7	125.7	139.3	139.3	126.2	127.1	130.3
			36 JAN 76	500	122.6	122.6	135.9	135.9	124.1	125.0	127.9
			PAGE 11	650	119.5	119.5	132.0	132.0	122.0	122.9	125.8
				850	116.6	116.6	129.9	129.9	120.1	121.0	123.9
				1000	113.6	113.6	126.6	126.6	118.3	119.2	121.9
				1250	111.0	111.0	123.7	123.7	116.5	117.4	119.7
				1500	108.3	108.3	120.4	120.4	114.8	115.7	117.4
				2000	105.0	105.0	117.0	117.0	113.1	114.0	115.0
				2500	102.7	102.7	113.5	113.5	111.3	112.1	112.6
				3150	99.9	99.9	110.3	110.3	109.4	110.2	110.3
				4000	96.9	96.9	107.1	107.1	107.4	108.1	107.9
				5000	93.7	93.7	103.8	103.8	105.3	105.9	105.4
				6500	90.5	90.5	100.4	100.4	103.0	103.3	102.9
				8000	87.1	87.1	96.9	96.9	100.6	100.8	100.2
				10000	83.5	83.5	93.2	93.2	98.0	98.0	97.4
				12500	79.7	79.7	89.5	89.5	95.2	95.2	94.6
				16000	75.7	75.7	85.7	85.7	92.2	92.2	91.8
				20000	71.5	71.5	81.7	81.7	89.0	89.0	88.9
				25000	67.0	67.0	77.4	77.4	85.5	85.5	85.5

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 \*\* BASED ON SMOOTHED TUNE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(
	F-4	AFTERBURNER POWER							
250	(	(	(	(	(	(	(	(	(
	100 % RPM								
315	(	(	(	(	(	(	(	(	(
	AIR SPEED = 300 KNOTS								
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
	NO. OF RECORDS: 12								
500	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-031-101-060176-A								
S 630	(	(	(	(	(	(	(	(	(
L 630	(	(	(	(	(	(	(	(	(
A 630	(	(	(	(	(	(	(	(	(
N 630	(	(	(	(	(	(	(	(	(
T 1000	(	(	(	(	(	(	(	(	(
J 1250	(	(	(	(	(	(	(	(	(
I 1600	(	(	(	(	(	(	(	(	(
S 1600	(	(	(	(	(	(	(	(	(
T 2000	(	(	(	(	(	(	(	(	(
N 2500	(	(	(	(	(	(	(	(	(
C 3150	(	(	(	(	(	(	(	(	(
E 4000	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
T 6000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

AIR TO GROUND  
P = PNL  
\* = PNL  
+ = ALT  
A = AL

```

200 (-----ST-E)
( F-4 AFTERBURNER POWER )
250 ( . 100 % RPM . . . . . ST E . )
( AIRSPEEU = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST. E . )
( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 12 . . . . . ST E . )
( IDENT: 5.6-J31-101-060176-A )
500 ( . . . . . ST. E . . . . . )
( . . . . . )
630 ( . . . . . ST E . )
( . . . . . )
800 ( . . . . . ST E . )
( . . . . . )
1000 ( . . . . . ST. E . . . . . )
( . . . . . )
1250 ( . . . . . X E . . . . . )
( . . . . . )
1600 ( . . . . . STE . . . . . )
( . . . . . )
2000 ( . . . . . STE. . . . . )
( . . . . . )
2500 ( . . . . . STE . . . . . )
( . . . . . )
3150 ( . . . . . SX . . . . . )
( . . . . . )
4000 ( . . . . . SX . . . . . )
( . . . . . )
5000 ( . . . . . XT . . . . . )
( . . . . . )
6300 ( . . . . . X . . . . . )
( . . . . . )
8000 ( . . . . . EX . . . . . )
( . . . . . )
10000 ( . . . . . EX . . . . . )
( . . . . . )
12500 ( . . . . . X . . . . . )
( . . . . . )
16000 ( . . . . . X . . . . . )
( . . . . . )
20000 ( . . . . . X. . . . . )
( . . . . . )
25000 (-----X-----)
60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		METEOROLOGY:																								
( OPERATION:		A/C CODE: 031																								
( AFTERBURNER POWER		OPS CODE: 101																								
( 100 % RPM		REL HUMID = 70 %																								
( AIRSPEED = 300 KNOTS		PK PROFILE VER: A																								
( DELTA N = 0.0 DB		06 JAN 76																								
		PAGE 11																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
100	90	97	108	114	116	113	114	117	115	115	115	115	114	113	113	113	113	113	114	113	113	117	123	129		
90	94	95	106	112	114	111	112	113	113	113	114	113	111	111	111	111	111	111	111	112	111	114	120	126		
96	92	93	104	110	112	109	110	111	111	111	112	111	109	109	109	109	109	109	109	109	109	108	111	116	122	
94	91	91	102	108	110	106	105	103	109	109	110	109	107	106	106	107	106	106	106	106	106	105	108	113	117	
92	83	83	100	106	107	104	100	107	107	107	106	106	105	104	104	104	104	104	104	104	104	102	105	109	113	
90	87	90	103	105	101	103	102	102	105	105	106	104	103	102	102	102	102	101	101	101	101	99	101	104	107	
88	84	85	95	100	102	99	100	103	103	103	104	102	101	100	99	99	99	99	99	99	98	97	96	97	99	100
86	82	83	93	98	99	96	97	101	101	101	101	100	98	97	97	97	97	96	95	94	92	92	93	92		
84	80	80	90	96	96	92	94	98	98	98	99	97	96	95	94	94	93	91	90	87	86	86	83	83		
82	77	75	86	91	93	89	91	95	96	96	97	95	93	92	91	91	89	87	85	82	80	78	72	72		
79	73	72	82	87	83	85	87	91	94	94	94	93	91	89	88	88	86	83	80	76	73	68	58	58		
75	69	68	78	83	84	81	82	87	90	91	92	90	88	85	84	82	78	74	69	64	56	41	41			
71	65	64	73	78	79	76	77	83	86	86	83	87	85	83	82	80	77	72	66	61	53	41	21			
67	60	58	67	72	74	72	72	77	81	84	80	84	82	80	77	75	71	66	58	52	40	23	1			
62	55	54	63	67	69	65	67	71	76	80	82	80	78	75	73	70	65	58	48	40	24	1	1			
57	50	49	58	63	64	60	62	65	70	76	77	76	74	71	68	64	58	49	35	26	5	5	5			
54	48	47	56	60	62	58	59	63	68	72	74	72	70	66	62	57	49	37	20	8	8	8	8			
52	46	42	54	58	59	52	56	60	64	69	70	68	64	60	54	43	38	24	2	2	2	2	2			
50	44	42	51	56	57	52	53	57	61	65	67	63	58	53	46	38	25	7	7	7	7	7	7			
48	41	40	49	53	54	49	50	53	57	60	60	57	51	45	36	25	9	9	9	9	9	9	9			
46	39	37	48	51	52	46	46	49	52	55	54	50	43	35	24	10	10	10	10	10	10	10	10			
43	36	35	43	47	48	43	42	45	47	49	47	41	33	23	9	9	9	9	9	9	9	9	9			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (JDA)	ALT** (JBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (JDB)	SLLT** (DB)	EPNL** (EPNJR)	IDENTIFICATION:	
( F-4	129.8	129.8	143.2	143.2	127.3	128.2	131.3	OMEGA	6.6
( 250	126.9	126.9	140.4	140.4	125.4	126.3	129.4	A/C CODE: 031	
( 315	123.8	123.8	137.5	137.5	123.3	124.2	127.5	OPS CODE: 101	
( 400	120.7	120.7	134.3	134.3	121.2	122.1	125.3	PROFILE VER: A	
( 500	117.6	117.6	130.9	130.9	119.1	120.0	122.9	06 JAN 76	
( 630	114.5	114.5	127.7	127.7	117.0	117.9	120.8	PAGE	M1
( 800	111.5	111.5	124.7	124.7	115.0	115.9	118.7		
( 1000	108.7	108.7	121.6	121.6	113.2	114.1	116.6		
( 1250	105.9	105.9	118.2	118.2	111.4	112.3	114.3		
( 1600	103.1	103.1	114.7	114.7	109.6	110.5	111.7		
( 2000	100.2	100.2	111.0	111.0	107.7	108.6	109.0		
( 2500	97.2	97.2	107.0	107.0	105.7	106.5	106.0		
( 3150	93.9	93.9	103.1	103.1	103.4	104.2	103.1		
( 4000	90.2	90.2	98.7	98.7	100.7	101.4	99.5		
( 5000	86.0	86.0	93.6	93.6	97.6	98.1	95.5		
( 6300	81.6	81.6	88.7	88.7	94.1	94.4	91.2		
( 8000	77.5	77.5	84.5	84.5	91.0	91.2	87.8		
( 10000	73.1	73.1	79.9	79.9	87.6	87.6	84.0		
( 12500	68.2	68.2	75.0	75.0	83.7	83.7	80.1		
( 16000	62.9	62.9	69.6	69.6	79.4	79.4	75.8		
( 20000	57.1	57.1	64.0	64.0	74.6	74.6	71.1		
( 25000	50.7	50.7	57.7	57.7	69.2	69.2	65.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
	NOISE LEVEL IN DB								
200	(	(	(	(	(	(	(	(	(
	AFTERBURNER POWER								
250	(	(	(	(	(	(	(	(	(
	F-4 100% RPM								
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F REL HUMID = 70%								
500	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
630	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 12								
800	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-U31-101-060176-A								
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1500	(	(	(	(	(	(	(	(	(
1750	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2250	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
2750	(	(	(	(	(	(	(	(	(
3000	(	(	(	(	(	(	(	(	(
3250	(	(	(	(	(	(	(	(	(
3500	(	(	(	(	(	(	(	(	(
3750	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
4250	(	(	(	(	(	(	(	(	(
4500	(	(	(	(	(	(	(	(	(
4750	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
5250	(	(	(	(	(	(	(	(	(
5500	(	(	(	(	(	(	(	(	(
5750	(	(	(	(	(	(	(	(	(
6000	(	(	(	(	(	(	(	(	(
6250	(	(	(	(	(	(	(	(	(
6500	(	(	(	(	(	(	(	(	(
6750	(	(	(	(	(	(	(	(	(
7000	(	(	(	(	(	(	(	(	(
7250	(	(	(	(	(	(	(	(	(
7500	(	(	(	(	(	(	(	(	(
7750	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
8250	(	(	(	(	(	(	(	(	(
8500	(	(	(	(	(	(	(	(	(
8750	(	(	(	(	(	(	(	(	(
9000	(	(	(	(	(	(	(	(	(
9250	(	(	(	(	(	(	(	(	(
9500	(	(	(	(	(	(	(	(	(
9750	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
10250	(	(	(	(	(	(	(	(	(
10500	(	(	(	(	(	(	(	(	(
10750	(	(	(	(	(	(	(	(	(
11000	(	(	(	(	(	(	(	(	(
11250	(	(	(	(	(	(	(	(	(
11500	(	(	(	(	(	(	(	(	(
11750	(	(	(	(	(	(	(	(	(
12000	(	(	(	(	(	(	(	(	(
12250	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
12750	(	(	(	(	(	(	(	(	(
13000	(	(	(	(	(	(	(	(	(
13250	(	(	(	(	(	(	(	(	(
13500	(	(	(	(	(	(	(	(	(
13750	(	(	(	(	(	(	(	(	(
14000	(	(	(	(	(	(	(	(	(
14250	(	(	(	(	(	(	(	(	(
14500	(	(	(	(	(	(	(	(	(
14750	(	(	(	(	(	(	(	(	(
15000	(	(	(	(	(	(	(	(	(

```

200 (-----ST-E)
    ( F-4 AFTERBURNER POWER
250 ( . 100 % RPM . . . ST E.
    ( AIRSPEED = 360 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . . ST E.
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 12 . . . ST E.
    ( IDENT: 5.6-031-101-060176-A
500 ( . . . . ST .E.
    (
S 630 ( . . . . ST .E
    (
L 800 ( . . . . ST E.
    (
N 1000 ( . . . . ST .E.
    (
O 1250 ( . . . . ST E
    (
I 1600 ( . . . . X E
    (
S 2000 ( . . . . SX.
    (
T 2500 ( . . . . XT
    (
A 3150 ( . . . . XT
    (
N 4000 ( . . . . EX
    (
F 5000 ( . . . . E. X
    (
E 6300 ( . . . . E X
    (
E 8000 ( . . . . E .X
    (
T 10000 ( . . . . E . X
    (
    ( GROUND TO GROUND
12500 ( . . . . E X
    (
    ( E = EPNL
16000 ( . . . . E X.
    (
    ( T = SELT
20000 ( . . . . E. X.
    (
    ( S = SEL
25000 (-----E-X-----
        50 60 70 80 90 100 110 120 130
        NOISE LEVEL IN U3

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		AIR-TO-GROUND PROPAGATION															IDENTIFICATION:								
																	OMEGA 6.6								
AIRCRAFT:		OPERATION:															A/C CODE: 031								
		TAKEOFF POWER															OPS CODE: 103								
		100% RPM															PROFILE VER: A								
		AIRSPEED = 300 KNOTS															06 JAN 76								
		DELTA N = 0.0 DB															PAGE H2								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	91	89	88	99	105	108	105	106	111	109	113	110	117	116	114	115	115	114	115	116	116	115	117	122	126
250	89	87	86	97	103	106	103	104	108	107	111	114	115	114	112	113	113	113	112	113	113	113	115	119	123
315	87	85	84	95	101	104	101	102	106	105	108	112	113	112	110	111	110	111	110	111	111	110	112	116	119
400	85	83	82	93	99	102	99	100	104	103	106	110	111	110	108	108	108	107	108	108	108	107	109	112	115
500	83	81	80	91	97	100	97	100	102	101	104	108	109	108	105	106	106	105	106	106	106	104	105	108	110
630	81	79	78	89	95	98	95	96	100	98	102	106	107	106	103	104	104	103	103	103	103	101	102	104	104
800	79	77	76	87	93	96	93	94	93	96	100	104	104	103	101	101	101	100	100	100	99	98	98	99	98
1000	77	75	74	85	91	94	91	92	90	94	98	102	102	101	99	99	98	97	97	97	96	94	93	93	90
1250	75	73	72	83	89	92	89	90	94	92	96	99	100	99	96	96	95	94	94	94	92	89	88	86	81
1600	73	71	70	81	87	90	87	88	92	90	94	97	97	96	93	93	93	91	90	90	87	84	82	78	70
2000	71	69	68	79	85	88	84	86	83	88	91	95	95	94	91	90	89	87	86	82	79	74	68	57	
2500	69	67	66	77	83	86	82	83	87	85	89	92	92	91	88	87	86	83	81	76	72	66	57	41	
3150	67	65	64	75	81	84	80	81	85	83	86	89	88	88	85	84	82	78	75	69	64	55	42	21	
4000	65	63	62	73	79	81	78	79	83	81	84	87	87	85	81	80	77	73	69	61	55	43	25	4	
5000	63	61	60	71	77	79	76	77	80	78	81	84	83	81	77	75	72	67	61	51	43	27	4	9	
6300	61	59	58	68	74	77	73	74	77	75	78	81	80	77	73	70	66	59	52	39	29	9	4	9	
8000	59	57	56	66	72	74	71	71	75	72	75	77	76	73	68	64	59	51	41	24	13	4	13	13	
10000	57	54	53	64	70	72	68	69	72	69	71	73	72	68	62	57	51	40	28	6	6	6	6	6	
12500	54	52	51	62	67	69	65	66	69	67	69	66	62	55	49	41	28	11	11	11	11	11	11	11	
16000	52	50	49	59	65	67	62	63	67	62	63	64	51	55	47	39	29	13	13	13	13	13	13	13	
20000	50	48	46	56	62	64	59	59	61	57	58	54	47	37	27	14	14	14	14	14	14	14	14	14	
25000	47	45	44	54	59	60	56	55	57	52	52	51	46	37	25	13	13	13	13	13	13	13	13	13	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	OPERATION:	MCETEOROLOGY:	IDENTIFICATION:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
F-4	TAKEOFF PWR	TEMP = 59 F	A/C CODE: 031	129.1	129.6	141.8	142.0	127.7	128.8	131.2
	100 % RPM	REL HUMID = 70 %	OMEGA 5.6	126.4	126.9	139.0	139.5	126.1	127.1	129.5
	AIR SPEED = 300 KNOTS	DELTA N = 0.0 DB		123.7	124.2	136.1	136.6	124.3	125.4	127.5
				120.9	121.4	133.5	134.0	122.5	123.6	125.9
				118.1	118.6	130.8	131.3	120.7	121.7	124.3
				115.2	115.7	128.0	128.5	118.9	119.9	122.5
				112.4	112.9	125.1	125.6	117.1	118.1	120.5
				109.7	110.2	122.0	122.5	115.3	116.3	118.4
				106.9	107.4	118.7	119.2	113.5	114.6	116.1
				104.1	104.6	115.2	115.7	111.7	112.8	113.6
				101.2	101.7	111.7	112.2	109.9	110.9	111.1
				98.3	98.8	108.1	108.6	107.9	108.9	109.5
				95.2	95.7	104.3	104.8	105.8	106.8	105.8
				91.9	92.4	100.8	101.2	103.0	104.4	103.0
				88.5	88.8	97.2	97.5	101.2	101.8	100.2
				84.9	85.1	93.4	93.8	98.6	99.0	97.2
				81.1	81.2	89.3	89.4	95.7	95.9	94.0
1000				76.9	76.9	85.1	85.1	92.5	92.5	90.5
1250				72.4	72.4	80.5	80.5	89.0	89.0	86.9
1600				67.6	67.6	75.5	75.5	85.2	85.2	82.9
2000				62.4	62.4	70.7	70.7	81.1	81.1	79.1
2500				57.1	57.1	65.5	65.5	76.7	76.7	75.0

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 9  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(
	F-4								
	100 % RPM								
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F REL HUMID = 70 %								
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 8								
	IDENT: 6.6-031-103-060176-A								
S	(	(	(	(	(	(	(	(	(
L	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
D	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
S	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
C	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
F	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

AIR TO GROUND  
P = PNL  
+ = ALT  
A = AL





SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (03)\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ) IDENTIFICATION: )  
 ) )  
 ) OMEGA 6.6 )

OPERATION: )  
 TAKEOFF POWER ) METEOROLOGY: )  
 100 % RPM ) TEMP = 59 F )  
 ) REL HUMID = 70 % )  
 ) )  
 ) AIRSPEED = 300 KNOTS ) DELTA N = 0.0 DB )  
 ) )  
 ) )

FREQUENCY BAND NUMBER

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	66	64	63	94	100	103	100	101	105	104	108	111	112	111	109	110	110	109	110	111	110	112	117	121	
250	64	62	61	92	98	101	96	99	103	102	106	109	114	109	107	108	108	107	108	108	108	108	110	114	118
315	82	80	79	90	96	97	96	97	101	100	103	107	108	107	105	106	106	105	106	106	106	105	107	111	114
400	60	70	77	68	94	97	94	95	99	98	101	105	105	105	103	103	103	102	103	103	102	104	107	110	
500	76	76	75	86	92	95	91	93	97	96	99	103	104	103	100	101	101	100	101	101	99	100	103	105	
630	76	74	73	84	90	92	89	90	95	93	97	101	102	101	98	99	99	98	98	98	96	97	99	99	
600	74	72	71	82	87	89	86	88	93	91	95	99	99	98	95	96	96	95	95	94	93	93	94	93	
1000	72	70	69	79	84	86	83	85	91	89	95	97	97	96	94	94	93	92	92	91	89	88	88	85	
1200	71	68	66	76	81	83	80	82	88	87	91	94	95	94	91	91	91	89	89	87	84	83	81	76	
1600	68	65	63	72	77	80	76	78	85	85	89	92	92	91	88	88	88	86	85	82	79	77	73	65	
2000	65	61	59	69	74	76	72	74	81	83	86	90	90	89	86	85	84	82	81	77	74	69	63	52	
2500	61	58	55	64	69	72	68	70	77	79	84	87	87	86	83	82	81	78	76	71	67	61	52	36	
3150	57	53	50	59	65	67	63	65	73	75	80	85	85	85	83	82	81	77	73	70	64	59	50	37	16
4000	53	48	45	54	59	61	57	59	67	70	77	81	82	80	76	75	72	68	64	56	50	38	20		
5000	48	43	40	49	54	56	53	54	61	65	72	77	78	76	72	70	67	62	56	46	38	22			
6300	43	39	36	44	49	51	48	49	55	59	68	73	74	72	68	65	61	54	47	34	24				
6000	41	37	33	42	47	49	45	46	53	56	65	69	70	68	63	59	54	46	36	19					
10000	39	34	31	40	45	46	43	44	50	53	61	62	66	63	57	52	46	35	23						
12500	36	32	29	38	42	44	40	41	47	49	57	61	60	57	50	44	36	23							
16000	34	30	27	35	40	41	37	36	43	46	53	56	55	50	42	34	24								
20000	32	28	24	32	37	38	34	34	41	44	51	54	53	48	42	32	22								
25000	29	25	22	30	34	35	30	30	38	42	50	53	52	43	32	20									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
GROUND-TO-GROUND PROPAGATION											
IDENTIFICATION:											
AIRCRAFT: ( OPERATION: ) METEOROLOGY: A/C CODE: 031											
( TAKEOFF POWER ) TEMP OPS CODE: 103											
( 100 % RPM ) REL HUMID = 70 % PKOFILE VER: A											
( AIRSPEED = 300 KNOTS ) DELTA N = 0.0 DB 06 JAN 76											
( ) PAGE M2											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)				
200	124.1	124.6	136.8	137.3	122.7	123.8	126.2				
250	121.4	121.9	134.0	134.5	121.1	121.1	124.5				
315	118.7	119.2	131.1	131.6	119.3	120.4	122.5				
400	115.9	116.4	128.5	129.0	117.5	118.6	120.9				
500	113.1	113.6	125.8	126.3	115.7	116.7	119.3				
630	110.2	110.7	123.0	123.5	113.9	114.9	117.4				
800	107.4	107.9	120.0	120.5	112.1	113.1	115.4				
1000	104.7	105.2	116.8	117.3	110.3	111.3	113.3				
1250	101.9	102.4	113.4	113.9	108.5	109.6	110.9				
1600	99.1	99.6	109.8	110.3	106.7	107.7	108.2				
2000	96.2	96.7	106.1	106.6	104.8	105.8	105.5				
2500	93.1	93.6	102.1	102.6	102.8	103.8	102.6				
3150	89.9	90.5	97.9	98.4	100.6	101.6	99.3				
4000	86.4	86.8	93.7	94.1	98.1	98.9	96.0				
5000	82.5	82.8	89.2	89.5	95.1	95.7	92.2				
6300	78.1	78.3	84.2	84.4	91.8	92.2	88.0				
8000	73.9	74.0	79.6	79.7	88.5	88.8	84.3				
10000	69.3	69.3	74.7	74.7	84.9	84.9	80.1				
12500	64.2	64.2	69.5	69.5	80.9	80.9	75.9				
16000	58.6	58.6	63.8	63.8	76.2	76.2	71.2				
20000	52.3	52.3	57.3	57.3	70.9	70.9	65.8				
25000	45.2	45.2	50.2	50.2	64.9	64.9	59.6				

\*\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	TAKEOFF POWER																			
	60	70	80	90	100	110	120	130	140	X										
200																				
250																				
315																				
400																				
500																				
630																				
800																				
1000																				
1250																				
1600																				
2000																				
2500																				
3150																				
4000																				
5000																				
6300																				
8000																				
10000																				
12500																				
16000																				
20000																				
25000																				

F-4 TAKEOFF POWER

100% RPM  
 AIRSPEED = 300 KNOTS  
 TEMP = 79 F REL HUMID = 70 %  
 DELTA N = 6.0 DB  
 NO. OF RECORDS: 8  
 IDENT: 6.6-031-103-060176-A

GROUND TO GROUND  
 P = PNL  
 \* = PNL  
 + = ALT  
 A = AL

200	(	F-4	TAKEOFF POWER	ST-E
250	(	100 % RPM		
315	(	AIRSPEED = 300 KNOTS		.ST E
400	(	TEMP = 59 F	REL HUMID = 70 %	ST E
500	(	DELTA N = 0.0 DB		ST.E
	(	NO. OF RECORDS: 8		
	(	IDENT: 6.6-031-103-060176-A		
S 630	(			ST.E
L A 800	(			ST E
N 1000	(			ST.E
D 1250	(			ST E
I S 1600	(			ST E
T A 2000	(			ST.E
N C 2500	(			ST E
E 3150	(			ST E
I N 4000	(			ST E
F 5000	(			ST E
E 6300	(			ST E
T 8000	(			ST E
10000	(			ST E
12500	(			ST E
16000	(			ST E
20000	(			ST E
25000	(			ST E

NOISE LEVEL IN DB

50 60 70 80 90 100 110 120 130

	20	30	40	50	60	70	80	90
F 50	.	.	.	.	.	.	.	.
R 03	.	.	.	.	.	.	.	.
E 00	.	.	.	.	.	.	.	.
J 100	.	.	.	.	.	.	.	.
K 125	.	.	.	.	.	.	.	.
L 160	.	.	.	.	.	.	.	.
M 200	.	.	.	.	.	.	.	.
N 250	.	.	.	.	.	.	.	.
O 315	.	.	.	.	.	.	.	.
P 400	.	.	.	.	.	.	.	.
Q 500	.	.	.	.	.	.	.	.
R 630	.	.	.	.	.	.	.	.
S 800	.	.	.	.	.	.	.	.
T 1000	.	.	.	.	.	.	.	.
U 1250	.	.	.	.	.	.	.	.
V 1600	.	.	.	.	.	.	.	.
W 2000	.	.	.	.	.	.	.	.
X 2500	.	.	.	.	.	.	.	.
Y 3150	.	.	.	.	.	.	.	.
Z 4000	.	.	.	.	.	.	.	.
0 5000	.	.	.	.	.	.	.	.
1 6300	.	.	.	.	.	.	.	.
2 8000	.	.	.	.	.	.	.	.
3 10000	.	.	.	.	.	.	.	.

F-4 APPROACH POWER 87 % RPM  
 AIRSPEED = 190 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %  
 NO. OF RECORDS = 3 IDENT: 6.6-931-105-060176

PNLT = 109.1 PNOB  
 PNL = 109.5 PNOB  
 ALT = 97.5 DBA  
 AL = 97.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		METEOROLOGY:																								
OPERATION:		TEMP																								
APPROACH POWER		REL HUMID = 70 %																								
δ7 % RPM		δelta N = 0.0 DB																								
AIRSPEED = 190 KNOTS		PAGE H3																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	80	85	89	100	103	104	100	102	103	101	103	101	103	103	103	103	103	103	100	100	100	98	96	93	92	90
250	80	84	87	98	101	102	98	100	101	99	101	99	101	101	101	103	102	100	98	97	96	93	90	89	86	
315	84	82	81	85	90	99	100	96	99	97	99	99	99	98	98	101	100	98	96	95	93	90	87	86	82	
400	82	80	79	83	94	97	98	94	96	97	95	97	96	96	96	98	95	93	92	91	88	84	82	78	73	
500	80	78	77	81	92	95	95	92	94	94	93	95	94	94	94	96	95	93	91	90	88	85	81	78	73	
630	78	76	75	79	90	93	94	90	91	92	90	93	92	92	94	93	91	88	87	85	81	77	74	67	60	
800	76	74	73	77	88	91	92	88	89	90	88	91	90	90	92	91	88	86	84	81	78	73	68	60	52	
1000	74	72	71	75	85	89	80	87	88	87	88	89	88	87	87	89	88	85	83	81	78	74	68	62	52	
1250	72	70	69	73	84	87	86	84	85	86	84	86	85	85	85	87	85	83	80	77	74	69	62	55	43	
1600	70	68	67	71	82	85	86	82	83	84	82	84	83	83	82	84	83	79	76	73	69	64	56	47	31	
2000	68	66	65	69	80	83	84	80	81	82	79	82	80	80	81	80	81	76	73	69	64	58	48	36	17	
2500	66	64	63	67	78	81	82	77	79	77	79	77	78	77	78	76	76	72	68	64	57	51	39	24	9	
3150	64	62	61	65	75	79	79	75	76	77	74	76	75	74	75	73	68	63	58	50	43	28	15			
4000	62	60	59	63	73	76	77	73	74	74	72	74	72	71	71	68	64	58	51	43	31	21				
5000	60	58	57	61	71	74	75	70	71	72	69	71	69	67	67	64	58	52	44	34	18					
6300	58	56	55	59	69	72	72	68	69	69	66	67	65	63	63	58	52	44	34	18						
8000	56	54	52	56	66	69	70	66	66	66	63	64	61	58	57	52	45	35	22							
10000	54	51	50	54	64	67	67	62	63	62	59	60	58	53	51	45	36	24								
12500	51	49	48	52	62	64	64	59	60	59	55	55	51	47	44	36	25	10								
16000	49	47	45	49	59	61	61	56	56	55	50	50	45	40	35	26	12									
20000	47	44	43	46	56	58	58	52	52	50	45	44	38	31	25	13										
25000	44	42	40	44	53	55	55	49	48	45	39	37	29	21	13											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 † BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
AIR-TO-GROUND PROPAGATION											
AIRCRAFT:	OPERATION:	METEOROLOGY:	APPROACH POWER	TEMP	REL HUMID	DELTA N	AIR SPEED	OMEGA	A/C CODE	UPS CODE	PROFILE VER
F-4	87 % RPM	59 F	70 %	06 JAN 76	03	03	03	03	03	03	03
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELF** (DB)	EPNL** (EPNDB)				
200	113.0	113.0	125.4	126.0	113.7	114.8	117.3				
250	110.8	111.4	123.2	123.8	112.5	113.0	116.1				
315	108.0	109.2	120.9	121.5	111.4	112.5	114.7				
400	106.4	107.0	118.5	119.1	110.1	111.2	113.4				
500	104.1	104.7	116.2	116.8	108.9	110.0	112.0				
630	101.8	102.4	113.7	114.3	107.5	108.6	110.6				
800	99.4	100.0	111.1	111.7	105.1	107.2	109.0				
1000	97.0	97.5	108.5	109.1	104.7	107.3	107.4				
1250	94.4	95.0	105.7	106.3	103.1	104.2	105.6				
1600	91.7	92.3	102.8	103.4	101.5	102.6	103.7				
2000	89.0	89.6	99.7	100.3	99.7	100.8	101.6				
2500	86.1	86.7	96.5	97.1	97.8	98.9	99.3				
3150	83.1	83.7	93.6	94.2	95.3	96.9	96.9				
4000	79.9	80.4	89.3	89.8	93.6	94.5	94.0				
5000	76.6	76.9	86.0	86.4	91.3	91.9	91.5				
6300	73.1	73.3	82.6	82.9	88.8	89.2	88.8				
8000	69.5	69.6	79.0	79.1	86.2	86.4	86.0				
10000	65.7	65.7	75.2	75.2	83.4	83.4	83.0				
12500	61.8	61.8	71.3	71.3	80.5	80.5	80.1				
16000	57.7	57.7	67.1	67.1	77.5	77.5	76.9				
20000	53.0	53.0	62.6	62.6	74.3	74.3	73.4				
25000	49.2	49.2	57.5	57.5	70.9	70.9	69.6				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	APPROACH POWER										
	50	60	70	80	90	100	110	120	130		
200	(	(	(	(	(	(	(	(	(	(	)*P
	F-4										
250	(	(	(	(	(	(	(	(	(	(	)*P
	87 % RPM										
310	(	(	(	(	(	(	(	(	(	(	)*P
	AIR SPEED = 190 KNOTS										
400	(	(	(	(	(	(	(	(	(	(	)*P
	TEMP = 59 F REL HUMID = 70 %										
500	(	(	(	(	(	(	(	(	(	(	)*P
	DELTA N = 0.0 DB										
	NO. OF RECORDS: 3										
	IDENT: 0.6-031-1051060176-A										
S 630	(	(	(	(	(	(	(	(	(	(	)*P
L 600	(	(	(	(	(	(	(	(	(	(	)*P
A 600	(	(	(	(	(	(	(	(	(	(	)*P
N 1000	(	(	(	(	(	(	(	(	(	(	)*P
T 1250	(	(	(	(	(	(	(	(	(	(	)*P
I 1600	(	(	(	(	(	(	(	(	(	(	)*P
S 2000	(	(	(	(	(	(	(	(	(	(	)*P
T 2500	(	(	(	(	(	(	(	(	(	(	)*P
A 3150	(	(	(	(	(	(	(	(	(	(	)*P
N 4000	(	(	(	(	(	(	(	(	(	(	)*P
F 5000	(	(	(	(	(	(	(	(	(	(	)*P
E 6300	(	(	(	(	(	(	(	(	(	(	)*P
E 8000	(	(	(	(	(	(	(	(	(	(	)*P
T 10000	(	(	(	(	(	(	(	(	(	(	)*P
12500	(	(	(	(	(	(	(	(	(	(	)*P
16000	(	(	(	(	(	(	(	(	(	(	)*P
20000	(	(	(	(	(	(	(	(	(	(	)*P
25000	(	(	(	(	(	(	(	(	(	(	)*P



```

200 (-----ST-E-----)
( F-4 APPROACH POWER )
25J ( . 87 % RPM . . . . . )
( AIRSPEED = 190 KNOTS . . . . . )
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . )
( DELTA N = 0.3 DB . . . . . )
400 ( . NO. OF RECORDS: 3 . . . . . )
( IDENT: 5.6-031-105-060170-A . . . . . )
500 ( . . . . . )
( . . . . . )
630 ( . . . . . )
( . . . . . )
800 ( . . . . . )
( . . . . . )
1000 ( . . . . . )
( . . . . . )
1250 ( . . . . . )
( . . . . . )
1600 ( . . . . . )
( . . . . . )
2000 ( . . . . . )
( . . . . . )
2500 ( . . . . . )
( . . . . . )
3150 ( . . . . . )
( . . . . . )
4000 ( . . . . . )
( . . . . . )
5000 ( . . . . . )
( . . . . . )
6300 ( . . . . . )
( . . . . . )
8000 ( . . . . . )
( . . . . . )
10000 ( . . . . . )
( . . . . . )
12500 ( . . . . . )
( . . . . . )
16000 ( . . . . . )
( . . . . . )
20000 ( . . . . . )
( . . . . . )
25000 (-----EX-----)
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 031																							
( OPERATION: )		OPS CODE: 105																							
( APPROACH POWER )		PROFILE VER: A																							
( 87% RPM )		06 JAN 76																							
( AIRSPEED = 190 KNOTS )		PAGE L3																							
( DELTA N = 0.0 DB )																									
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 83	81	80	84	95	38	99	95	97	98	98	98	98	98	98	100	99	97	95	95	93	91	88	87	85
( 250	( 81	79	78	82	93	96	97	93	95	96	96	96	96	96	96	98	97	95	93	92	91	88	85	84	81
( 315	( 79	77	75	80	91	94	95	91	93	94	94	94	94	94	94	93	95	93	91	90	88	85	82	81	77
( 400	( 77	75	74	78	89	92	93	89	91	92	90	92	91	91	91	93	93	90	88	87	86	83	79	77	73
( 500	( 75	73	72	76	87	90	91	87	89	89	88	90	89	89	89	91	90	88	86	85	83	80	76	73	68
( 630	( 73	71	70	74	84	87	88	84	86	87	85	88	87	87	87	89	88	86	85	82	80	76	72	69	62
( 800	( 71	69	68	72	81	84	85	82	84	85	85	85	85	85	85	87	86	83	81	79	76	73	68	63	55
( 1000	( 69	67	65	69	79	81	82	79	82	83	83	84	83	83	82	84	83	80	78	76	73	69	63	57	47
( 1200	( 67	65	63	68	75	78	79	75	79	81	81	80	80	80	80	82	80	78	75	72	69	64	57	50	38
( 1500	( 65	62	60	63	72	75	76	72	76	79	77	79	78	77	77	79	78	74	71	68	64	59	51	42	26
( 2000	( 62	58	56	59	68	71	72	68	72	77	74	77	75	75	75	76	75	71	68	64	59	53	43	31	12
( 2500	( 59	54	52	54	64	67	67	64	68	73	72	74	73	72	73	72	73	71	67	63	59	52	46	34	19
( 3100	( 55	50	47	50	59	62	62	59	64	69	68	71	70	69	70	69	68	63	58	53	45	38	23	4	
( 4000	( 50	45	42	44	53	56	57	53	59	64	65	68	67	66	66	66	63	59	53	46	36	28	10		
( 5000	( 45	40	37	39	48	51	52	48	53	58	60	64	63	62	62	62	59	53	46	38	26	16			
( 6300	( 40	36	33	35	44	46	47	43	47	53	56	59	59	58	58	58	53	47	39	29	13	1			
( 8000	( 38	34	30	32	41	44	44	40	44	50	53	56	55	53	52	52	47	40	30	17					
( 10000	( 36	31	28	30	39	41	42	37	41	46	49	52	50	48	48	48	43	31	19	3					
( 12500	( 33	29	26	28	37	39	39	34	38	43	45	47	45	42	42	42	39	20	5						
( 16000	( 31	27	23	25	34	36	36	31	34	39	41	42	42	39	35	30	21	7							
( 20000	( 29	24	21	22	31	33	33	28	30	34	35	36	32	26	20	8									
( 25000	( 26	22	18	20	28	30	29	24	26	29	29	29	23	16	8										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)	METEOROLOGY:		
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)	REL HUMID = 70 %	TEMP	A/C CODE: 031
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)	DELTA N = 0.0 U2		OPS CODE: 105
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)			PROFILE VER: A
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)			06 JAN 76
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)			PAGE M3
AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)			
108.0	108.5	120.4	121.0	108.7	109.9	112.3			
105.8	106.4	118.2	118.7	107.5	108.6	111.0			
103.6	104.2	115.8	116.4	106.4	107.4	109.7			
101.4	102.0	113.5	114.1	105.1	106.2	108.3			
99.1	99.7	111.1	111.6	103.8	104.9	106.9			
96.8	97.3	108.6	109.1	102.5	103.6	105.4			
94.4	94.9	105.9	106.5	101.1	102.1	103.8			
91.9	92.4	103.2	103.7	99.6	100.6	102.0			
89.3	89.8	100.2	100.8	98.0	99.0	100.1			
86.9	87.1	97.1	97.6	96.3	97.3	97.9			
83.7	84.3	93.7	94.2	94.4	95.5	95.5			
80.6	81.2	89.9	90.5	92.3	93.4	92.8			
77.3	77.9	85.8	86.4	90.0	91.1	89.7			
73.6	74.1	81.3	81.7	87.3	88.2	85.9			
69.4	69.8	76.3	76.6	84.2	84.8	81.7			
64.9	65.1	71.0	71.2	80.6	81.0	77.2			
60.5	60.6	66.4	66.5	77.2	77.4	73.4			
55.6	55.6	61.6	61.6	73.4	73.4	69.4			
50.4	50.4	56.3	56.3	59.1	59.1	65.1			
44.7	44.7	50.3	50.3	54.5	54.5	60.1			
38.6	38.6	43.2	43.2	53.3	53.3	53.9			
32.0	32.0	34.5	34.5	53.7	53.7	46.5			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
	F-4	APPROACH POWER							
250	(	(	(	(	(	(	(	(	(
	87 % RPM								
310	(	(	(	(	(	(	(	(	(
	AIRSPD = 190 KNOTS								
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
	NO. OF RECORDS: 3								
500	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-031-105-060176-A								
S 630	(	(	(	(	(	(	(	(	(
L A 800	(	(	(	(	(	(	(	(	(
N T 1000	(	(	(	(	(	(	(	(	(
O 1250	(	(	(	(	(	(	(	(	(
I S 1600	(	(	(	(	(	(	(	(	(
T A 2000	(	(	(	(	(	(	(	(	(
N C 2500	(	(	(	(	(	(	(	(	(
E 3150	(	(	(	(	(	(	(	(	(
I N 4000	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
T 8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
	F-4	87 % RPM	APPROACH POWER						ST-E
250	(	(	(	(	(	(	(	(	(
	AIRSPED = 190 KNOTS								ST.E
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							ST E
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								ST E .
500	(	(	(	(	(	(	(	(	(
	% OF RECORDS: 3								ST.E.
	IDENT: 6.6-031-105-060176-A								
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(
N 1250	(	(	(	(	(	(	(	(	(
T 1600	(	(	(	(	(	(	(	(	(
A 2000	(	(	(	(	(	(	(	(	(
N 2500	(	(	(	(	(	(	(	(	(
C 3150	(	(	(	(	(	(	(	(	(
E 4000	(	(	(	(	(	(	(	(	(
I 5000	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(
F 8000	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(
E 12500	(	(	(	(	(	(	(	(	(
T 16000	(	(	(	(	(	(	(	(	(
									GROUND TO GROUND
									E = EPNL
									T = SELT
									S = SEL
25000	(	(	(	(	(	(	(	(	(
	E	X							

FREQ	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB											MEAN	SD	
	20	30	40	50	60	70	80	90						
50	.	.	.	.	.	.	.	.	.	.	.	.	71.7	.
63	.	.	.	.	.	.	.	.	.	.	.	.	72.2	.
80	.	.	.	.	.	.	.	.	.	.	.	.	69.7	.
100	.	.	.	.	.	.	.	.	.	.	.	.	72.3	.
125	.	.	.	.	.	.	.	.	.	.	.	.	77.5	.
160	.	.	.	.	.	.	.	.	.	.	.	.	80.5	.
200	.	.	.	.	.	.	.	.	.	.	.	.	74.6	.
250	.	.	.	.	.	.	.	.	.	.	.	.	80.6	.
315	.	.	.	.	.	.	.	.	.	.	.	.	80.7	.
400	.	.	.	.	.	.	.	.	.	.	.	.	85.3	.
500	.	.	.	.	.	.	.	.	.	.	.	.	85.7	.
630	.	.	.	.	.	.	.	.	.	.	.	.	85.1	.
800	.	.	.	.	.	.	.	.	.	.	.	.	91.5	.
1000	.	.	.	.	.	.	.	.	.	.	.	.	92.4	.
1250	.	.	.	.	.	.	.	.	.	.	.	.	86.5	.
1600	.	.	.	.	.	.	.	.	.	.	.	.	86.9	.
2000	.	.	.	.	.	.	.	.	.	.	.	.	86.1	.
2500	.	.	.	.	.	.	.	.	.	.	.	.	85.2	.
3150	.	.	.	.	.	.	.	.	.	.	.	.	82.4	.
4000	.	.	.	.	.	.	.	.	.	.	.	.	77.5	.
5000	.	.	.	.	.	.	.	.	.	.	.	.	72.6	.
6300	.	.	.	.	.	.	.	.	.	.	.	.	66.7	.
8000	.	.	.	.	.	.	.	.	.	.	.	.	58.1	.
10000	.	.	.	.	.	.	.	.	.	.	.	.	48.2	.

F-4 CRUISE POWER 92 % RPM  
 AIRSPEED = 300 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %  
 NO. OF RECORDS = 1 IDENT: 6.6-031-104-300376  
 PNLT = 109.4 PNDDB  
 PNL = 107.9 PNDDB  
 ALT = 99.1 DBA  
 AL = 97.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 031																							
( OPERATION:		OPS CODE: 104																							
( CRUISE POWER		PROFILE VER: A																							
( F-4		30 MAR 76																							
( 92 % RPM		PAGE H1																							
( METEOROLOGY:																									
( TEMP = 59 F																									
( REL HUMID = 70 %																									
( AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																							
( DELTA N = 0.0 DB																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	86	86	84	86	92	94	89	95	95	100	100	100	106	106	108	102	103	103	103	101	98	94	91	88	85
250	84	84	82	84	90	92	87	93	93	98	98	98	104	106	100	100	100	100	99	99	95	92	89	85	81
315	82	82	80	82	88	90	85	91	91	96	96	96	102	103	98	99	98	98	96	96	93	89	86	81	78
400	80	80	78	80	86	88	83	89	89	94	94	94	100	101	96	96	96	96	96	94	90	86	83	78	73
500	78	78	76	78	84	86	81	87	87	92	92	92	98	99	93	94	94	94	93	91	87	83	79	74	68
630	76	76	74	76	82	84	79	85	85	90	90	89	96	97	91	92	91	91	91	88	84	80	76	69	63
800	74	74	72	74	80	82	77	83	83	87	88	87	94	95	89	89	89	88	86	86	81	77	71	64	56
1000	72	72	70	72	78	80	75	81	81	85	85	85	92	92	87	87	86	85	82	82	78	73	67	58	48
1250	70	70	68	70	75	78	73	79	79	83	84	83	89	90	84	84	83	82	79	75	73	68	61	51	39
1600	68	68	66	68	73	76	70	76	76	81	81	81	87	88	81	81	80	79	75	75	69	63	55	43	28
2000	66	66	64	66	71	74	68	74	74	79	79	78	84	85	79	78	77	75	71	71	64	57	47	33	14
2500	64	64	62	64	69	72	66	72	72	76	77	76	82	82	76	75	73	71	66	66	57	50	39	21	6
3150	62	62	59	62	67	69	64	70	70	74	74	73	79	79	72	72	69	66	60	60	50	42	28	15	
4000	59	60	57	60	65	67	62	67	67	72	71	70	76	76	69	67	65	61	54	54	42	33	21		
5000	57	58	55	58	63	65	59	65	65	69	69	67	73	72	65	63	59	54	46	46	32	21			
6300	55	56	53	56	61	63	57	63	62	66	66	64	69	68	60	58	53	47	36	36	19				
8000	53	54	51	53	58	60	55	60	59	63	62	60	65	64	55	52	46	38	25	25	4				
10000	51	51	49	51	56	58	52	57	56	60	59	56	61	59	49	45	38	28	11	11					
12500	49	49	46	49	53	55	49	54	53	56	55	52	55	53	42	36	27	15							
16000	47	47	44	46	51	52	46	51	50	52	50	47	49	46	34	25	15								
20000	44	44	42	44	48	49	43	48	46	48	45	41	42	37	24	14									
25000	42	42	39	41	45	46	39	44	41	43	39	34	34	28	12										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
OPERATION: METEOROLOGY:									
CRUISE POWER = 59 F TEMP									
92 % RPM REL HUMID = 70 %									
AIRSPEED = 300 KNOTS DELTA N = 0.0 DB									
IDENTIFICATION:									
OMEGA 6.6									
A/C CODE: 031									
OPS CODE: 104									
PROFILE VER: A									
30 MAR 76									
PAGE 11									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	113.6	115.1	125.2	126.6	111.3	113.3	114.9		
250	111.5	112.9	122.9	124.4	110.2	112.2	113.7		
315	109.3	110.8	120.6	122.1	109.0	111.0	112.4		
400	107.1	108.5	118.3	119.7	107.8	109.8	111.1		
500	104.9	106.3	115.9	117.3	106.5	108.5	109.6		
630	102.5	104.0	113.3	114.8	105.2	107.2	108.1		
800	100.2	101.6	110.7	112.1	103.9	105.9	106.5		
1000	97.7	99.1	107.9	109.4	102.4	104.4	104.7		
1250	95.2	96.6	105.0	106.4	100.9	102.9	102.8		
1600	92.5	94.0	101.9	103.3	99.2	101.2	100.6		
2000	89.8	91.2	98.5	100.0	97.4	99.4	98.3		
2500	86.8	88.3	95.4	96.8	95.5	97.5	96.1		
3150	83.8	85.2	92.0	93.5	93.5	95.5	93.8		
4000	80.5	81.7	88.5	89.6	91.2	92.8	90.9		
5000	77.0	77.9	84.8	85.7	88.7	89.9	87.8		
6300	73.3	73.8	80.9	81.4	86.0	86.8	84.4		
8000	69.2	69.5	76.6	76.9	82.9	83.3	80.8		
10000	64.8	64.8	72.1	72.1	79.5	79.5	76.8		
12500	60.0	60.0	67.4	67.4	75.7	75.7	73.1		
16000	54.9	54.9	62.6	62.6	71.6	71.6	69.4		
20000	49.5	49.5	57.4	57.4	67.2	67.2	65.2		
25000	43.9	43.9	51.5	51.5	62.6	62.6	60.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	F-4								
	CRUISE POWER								
250	(	(	(	(	(	(	(	(	(
	92 % RPM								
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
	TEMP = 59 F								
	REL HUMID = 70 %								
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
	NO. OF RECORDS: 1								
	IDENT: 6.6-021-104-300376-A								
500	(	(	(	(	(	(	(	(	(
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
N 1000	(	(	(	(	(	(	(	(	(
T 1250	(	(	(	(	(	(	(	(	(
I 1600	(	(	(	(	(	(	(	(	(
S 2000	(	(	(	(	(	(	(	(	(
T 2500	(	(	(	(	(	(	(	(	(
C 3150	(	(	(	(	(	(	(	(	(
E 4000	(	(	(	(	(	(	(	(	(
I 5000	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(
F 8000	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(
E 12500	(	(	(	(	(	(	(	(	(
T 16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

AIR TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

```

200 (-----S-T-E-----)
    ( F-4          CRUISE POWER
250 ( . 92 % RPM
    ( AIRSPEED = 300 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 1
    ( IDENT: 6.6-031-104-300376-A
500 ( . . . . .S.TE . . . . .)
    (
630 ( . . . . .S T E .
    (
800 ( . . . . .S X .
    (
1000 ( . . . . .S T E. . . . .)
    (
1250 ( . . . . .S X .
    (
1600 ( . . . . .S.X .
    (
2000 ( . . . . .SET. . . . .)
    (
2500 ( . . . . .X T .
    (
3150 ( . . . . .SET .
    (
4000 ( . . . . .X T .
    (
5000 ( . . . . .EST . . . . .)
    (
6300 ( . . . . .E S T .
    (
8000 ( . . . . .E X .
    (
10000 ( . . . . .E.X. . . . .)
    (
12500 ( . . . . .E X .
    (
16000 ( . . . . .E.X .
    (
20000 ( . . . . .E.X. . . . .)
    (
25000 (-----E-X-----)
    ( 49 50 60 70 80 90 100 110 120
    ( NOISE LEVEL IN DB

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
OPERATION:		TEMP																							
CRUISE POWER = 59 F		REL HUMID = 70 %																							
92 % RPM		30 MAR 76																							
AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																							
DELTA N = 0.0 DB		PAGE L1																							
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	81	79	81	87	89	84	90	90	95	95	95	101	103	97	98	98	98	98	98	96	93	89	86	83	80
250	79	77	79	85	87	82	88	88	93	93	93	99	101	95	96	95	95	95	94	90	87	84	80	76	73
315	77	75	77	83	85	80	86	86	91	91	91	97	98	93	94	93	93	93	91	88	84	81	76	73	70
400	75	73	75	81	83	78	84	84	89	89	89	89	95	96	91	91	91	91	89	85	81	78	73	68	65
500	73	71	73	78	80	75	82	82	87	87	87	87	93	94	88	89	89	88	86	82	78	74	69	63	60
630	71	69	71	76	78	73	79	80	85	85	85	84	91	92	86	87	86	86	83	79	75	71	64	58	55
800	69	67	69	73	75	70	76	76	82	82	83	82	89	90	84	84	84	83	81	76	72	66	59	51	48
1000	67	65	66	70	72	67	73	76	80	81	80	87	87	82	82	81	81	80	77	73	68	62	53	43	40
1250	65	62	63	67	69	64	70	73	78	78	78	84	85	79	79	78	78	77	74	68	63	55	46	34	31
1600	63	62	58	64	66	60	67	69	76	76	76	82	83	76	76	75	75	74	70	64	58	50	38	23	20
2000	60	58	55	60	62	56	63	66	74	74	74	73	79	80	74	73	72	70	66	59	52	42	28	19	16
2500	56	54	50	56	57	52	58	62	70	71	71	71	77	77	71	70	68	66	61	52	45	34	16	11	8
3150	52	50	46	51	53	47	53	57	66	66	68	68	74	74	67	67	64	61	55	45	37	23	10	7	4
4000	48	45	40	45	47	41	48	52	61	61	64	65	71	71	64	62	60	56	49	37	28	16	11	8	5
5000	42	40	36	36	40	36	43	46	56	56	60	60	67	67	60	58	54	49	41	27	16	11	8	5	2
6300	37	36	31	32	36	31	38	40	50	50	56	56	63	63	55	53	48	42	31	14	2	1	1	1	1
8000	35	34	29	29	33	29	35	37	47	47	52	52	59	59	50	47	41	33	20	6	2	1	1	1	1
10000	33	31	27	27	31	26	32	34	44	44	49	48	55	54	44	40	33	23	6	2	1	1	1	1	1
12500	31	29	24	25	28	24	29	31	40	40	45	44	49	48	37	31	22	10	2	1	1	1	1	1	1
16000	29	27	22	22	26	21	26	28	36	36	40	39	43	41	29	21	10	2	1	1	1	1	1	1	1
20000	26	24	20	20	23	17	23	24	32	32	35	33	36	32	19	9	2	1	1	1	1	1	1	1	1
25000	24	22	17	17	20	14	19	19	27	27	29	26	28	23	7	2	1	1	1	1	1	1	1	1	1

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*																						
GROUND-TO-GROUND PROPAGATION																						
AIRCRAFT	OPERATION	CRUISE POWER	CRUISE RPM	AIRSPEED	300 KNOTS	DELTA N	0.0 DB	REL HUMID	70 %	TEMP	METEOROLOGY	OMEGA	6.6	A/C CODE	031	CPS CODE	104	PROFILE VER	A	30 MAR 76	PAGE	M1
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PND9)	PNLT** (PND8)	SEL (DB)	SELT** (DB)	EPNL** (EPND8)															
200	108.6	110.1	120.1	121.6	106.3	109.3	109.9															
250	106.5	107.9	117.9	119.3	105.2	107.2	108.7															
315	104.3	105.8	115.6	117.1	104.0	106.0	107.4															
400	102.1	103.5	113.3	114.7	102.8	104.8	106.0															
500	99.9	101.3	110.8	112.3	101.5	103.5	104.6															
630	97.5	99.0	108.3	109.7	100.2	102.2	103.0															
800	95.2	96.6	105.6	107.0	98.8	100.8	101.3															
1000	92.7	94.1	102.7	104.2	97.4	99.4	99.5															
1250	90.2	91.6	99.7	101.1	95.8	97.8	97.4															
1600	87.5	88.9	96.4	97.8	94.2	96.2	95.2															
2000	84.7	86.2	92.9	94.3	92.4	94.4	92.6															
2500	81.8	83.2	89.4	90.9	90.4	92.4	90.2															
3150	78.6	80.0	85.7	87.1	88.3	90.3	87.5															
4000	75.1	76.3	81.6	82.8	85.8	87.4	84.0															
5000	71.3	72.1	77.2	78.0	83.0	84.2	80.1															
6300	67.0	67.6	72.4	72.9	79.7	80.5	75.9															
8000	62.6	62.9	67.6	67.9	76.3	76.7	71.8															
10000	57.8	57.8	62.6	62.6	72.5	72.5	67.4															
12500	52.4	52.4	56.8	56.8	68.1	68.1	62.6															
16000	46.3	46.3	50.3	50.3	63.0	63.0	57.1															
20000	39.5	39.5	42.3	42.3	57.2	57.2	50.1															
25000	32.0	32.0	33.5	33.5	50.7	50.7	42.2															

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	F-4		CRUISE POWER						
250	(	(	(	(	(	(	(	(	(
	92 % RPM								
315	(	(	(	(	(	(	(	(	(
	AIR SPEED = 300 KNOTS								
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F		REL HUMID = 70 %						
500	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
630	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
800	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-031-104-300376-A								
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

GROUND TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

CRUISE POWER

	30	40	50	60	70	80	90	100	110
F-4									
92 % RPM									
AIRSPED = 300 KNOTS									
TEMP = 59 F									
REL HUMID = 70 %									
DELTA N = 0.0 DB									
NO. OF RECORDS: 1									
IDENT: 6.6-031-104-300376-A									
S									
L									
A									
N									
T									
1250									
1600									
2000									
2500									
3150									
4000									
5000									
6300									
8000									
10000									
12500									
16000									
20000									
25000									



TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				
1/3 OCTAVE BAND																				
DISTANCE = 250 FEET																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	IDLE, 65% RPM																			
F-4C AIRCRAFT	SINGLE ENGINE																			
	ENG. J79-GE-15																			
GROUND RUNUP	METEOROLOGY:																			
	TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-017																				
RUN 01																				
AIRCRAFT CODE 031																				
OPERATION CODE 01013																				
PROFILE VERSION A																				
19 DEC 75																				
PAGE C1																				
BAND CENTER	ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	72	72	71	75	75	75	75	75	76	76	76	76	76	77	77	77	75	75	74	73
63	69	67	70	74	72	70	69	72	72	74	73	75	77	76	76	76	76	77	73	70
80	65	66	68	74	69	69	69	70	73	75	73	74	74	76	76	76	76	76	73	66
100	65	68	70	73	68	70	71	74	75	76	74	74	76	76	78	76	76	76	71	66<
125	67	70	73	74	73	73	74	76	78	78	79	80	81	81	79	77	79	77	70	65
160	65	69	72	73	74	71	75	77	78	79	77	78	81	82	80	79	79	76	68	64
200	64	66	68	69	66	64	69	69	70	72	73	73	73	76	76	74	70	70	63	62<
250	63	66	67	69	63	64	63	64	65	67	68	71	74	74	75	71	71	66	63	61<
315	66	69	69	69	66	66	65	67	68	69	69	69	73	75	73	72	72	65	64	59
400	70	73	72	70	70	68	68	74	73	73	74	74	75	74	74	72	69	65	53	53
500	75	78	74	71	71	67	72	73	73	71	69	70	73	74	72	69	68	63	53	53
630	71	72	69	72	71	68	69	70	69	68	67	68	70	70	66	63	61	61	49	49
800	74	72	71	71	71	67	70	70	70	69	67	68	70	67	65	62	62	59	46	46
1000	74	73	74	72	72	68	68	67	68	66	65	67	67	67	63	61	61	62	47	47
1250	76	75	75	74	72	70	67	67	68	65	66	68	69	66	63	62	62	62	51	46
1600	87	86	83	84	79	78	77	77	74	68	68	67	69	67	67	65	63	63	48	48
2000	84	86	83	82	77	76	72	75	72	68	67	68	68	68	67	64	64	64	49	49
2500	80	86	82	81	77	76	72	72	70	67	56	66	66	67	66	63	63	63	47	47
3150	75	76	75	76	71	69	67	67	66	63	63	63	64	63	62	59	57	57	42	42
4000	77	78	77	77	71	72	69	68	67	64	65	65	65	65	63	61	61	57	57	42
5000	73	75	74	75	69	70	67	65	65	61	65	65	65	65	63	61	56	55	40	40
6300	71	73	71	71	67	67	63	63	64	61	67	67	66	66	65	62	57	55	39	39
8000	69	71	70	69	65	65	61	60	61	58	64	63	64	63	63	60	56	53	38	38
10000	63	66	65	64	60	60	56	55	55	53	58	57	58	57	57	55	50	50	47	47
OVERALL	91	92	90	90	86	85	85	86	85	86	86	86	88	88	87	86	85	81	77	77

XXX< = EXTRAPOLATED OR INTERPOLATED SPL



TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	IDENTIFICATION:																		
	) OMEGA 8.2																		
F-4C AIRCRAFT	) TEST 74-004-017																		
ENG. J79-GE-15	) AIRCRAFT CODE 031																		
GROUND RUNUP	) OPERATION CODE 01013																		
	) PROFILE VERSION A																		
	) 19 DEC 75																		
	) PAGE 01																		
	) METEOROLOGY:																		
	) TEMP = 59 F																		
	) BAR PRESS = 29.92 IN HG																		
	) REL HUMID = 70 %																		
	) DELTA N = 0.0 DB																		
	) ANGLE (DEGREES)																		
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	105.2	107.3	105.2	104.8	101.0	99.6	98.0	96.3	97.3	94.9	95.2	95.5	96.6	96.5	95.5	93.5	91.4	89.4	78.2
250	103.0	105.1	102.9	102.5	98.8	97.4	95.7	96.1	95.0	92.7	92.9	93.3	94.3	94.3	93.2	91.3	89.1	87.1	75.9
315	100.7	102.8	100.6	100.2	96.4	95.1	93.5	93.8	92.7	90.4	90.5	91.0	92.1	92.1	91.0	89.1	86.7	84.8	73.6
400	98.4	100.4	98.2	97.8	94.1	92.7	91.1	91.5	90.4	88.0	88.0	88.5	89.7	89.7	88.6	86.6	84.3	82.4	71.3
500	96.0	97.9	95.7	95.3	91.6	90.1	88.6	89.0	87.9	85.5	85.5	86.2	87.1	87.2	86.0	84.0	81.8	79.9	68.9
630	93.5	95.3	93.1	92.7	89.0	87.5	86.1	86.5	85.4	82.9	82.8	83.5	84.5	84.5	83.3	81.3	79.2	77.3	66.4
800	90.9	92.6	90.4	89.9	86.2	84.8	83.4	83.8	82.7	80.1	80.2	80.7	81.9	81.7	80.7	78.5	76.5	74.6	63.8
1000	88.2	89.7	87.4	87.0	83.3	81.8	80.6	81.0	80.0	77.3	77.4	77.9	79.2	78.9	77.9	75.7	73.6	71.8	61.0
1250	85.3	86.5	84.3	84.0	80.2	78.7	77.7	78.0	77.0	74.3	74.5	75.2	76.3	76.0	75.0	72.8	70.6	68.7	57.8
1600	82.2	83.2	81.0	80.8	76.9	75.3	74.5	74.9	73.8	71.0	71.4	71.9	73.2	72.9	71.9	69.7	67.3	65.3	54.4
2000	78.8	79.5	77.5	77.4	73.5	71.8	71.1	71.5	70.4	67.7	68.1	68.6	69.9	69.6	68.6	66.4	64.0	61.7	50.7
2500	75.2	75.5	73.6	73.6	69.7	68.1	67.4	67.8	66.6	63.7	64.0	64.6	65.9	65.9	64.6	62.2	59.7	57.5	45.7
3150	71.2	71.3	69.3	69.4	65.5	63.8	63.1	63.5	62.3	59.3	59.2	59.9	61.4	61.4	59.9	57.4	55.2	52.8	39.3
4000	66.0	66.9	64.8	64.8	61.0	59.1	58.5	59.0	57.6	54.3	54.0	54.7	56.5	56.8	54.6	51.9	49.8	46.6	31.9
5000	61.9	61.8	59.6	59.7	55.8	53.7	53.2	53.7	52.2	48.7	48.5	48.5	51.1	51.3	49.1	45.9	43.0	40.1	19.3
6300	56.5	56.2	54.0	53.9	50.1	48.0	47.3	47.8	45.9	42.4	40.9	42.0	45.1	45.5	42.9	39.1	37.0	32.8	7.0
8000	50.3	50.2	47.8	47.8	43.3	40.7	40.1	40.5	39.5	37.2	35.3	36.6	40.2	40.3	37.4	33.8	31.3	25.3	
10000	42.9	42.4	39.6	39.4	35.0	31.6	32.6	34.2	33.7	31.0	29.3	29.8	34.1	34.2	30.6	26.8	23.9	14.3	
12500	32.7	34.2	30.9	28.6	25.8	19.3	23.7	26.8	26.5	23.5	21.3	22.1	26.9	28.2	24.0	17.5	15.4	3.2	
16000	21.8	26.2	19.4	13.2	12.9	7.0	12.4	17.3	16.0	13.6	12.1	12.7	18.4	19.7	14.7	8.0	6.8		
20000	9.8	14.7	8.6		.1		1.2	7.9	5.6	3.7	2.9	3.4	6.8	8.6	5.3				
25000		3.3																	

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: F-4C AIRCRAFT ENG. J79-GE-15 GROUND RUNUP	OPERATION: ( IDLE, 65% RPM SINGLE ENGINE																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
DISTANCE (FEET)	ANGLE (DEGREES)																		
200	107.6	109.2	106.7	106.6	102.6	101.1	100.0	100.2	98.7	95.7	96.1	96.3	97.2	97.2	95.5	94.0	91.4	89.4	78.2
250	105.4	107.0	104.4	104.4	100.3	98.8	97.7	97.9	96.5	93.4	93.8	94.1	95.0	95.0	93.2	91.8	89.1	87.1	75.9
315	103.1	104.7	102.1	102.0	98.0	96.5	95.4	95.7	94.2	91.1	91.4	91.8	92.7	92.8	91.0	89.6	86.7	84.8	73.6
400	100.8	102.3	99.7	99.6	95.6	94.1	93.1	93.3	91.8	88.7	88.9	89.4	90.3	90.4	88.6	87.2	84.3	82.4	71.3
500	98.4	99.8	97.2	97.1	93.1	91.6	90.6	90.9	89.4	86.2	86.3	86.9	87.8	87.9	86.0	84.6	81.8	79.9	68.9
630	95.9	97.2	94.6	94.5	90.5	89.0	88.1	88.3	86.9	83.6	83.7	84.3	85.2	85.1	83.3	81.8	79.2	77.3	66.4
800	93.3	94.5	91.8	91.8	87.8	86.2	85.4	85.6	84.2	80.9	81.0	81.5	82.6	82.4	80.7	79.0	76.5	74.6	63.8
1000	90.6	91.6	88.9	88.8	84.9	83.3	82.6	82.8	81.4	78.0	78.2	78.7	79.8	79.6	77.9	76.2	73.6	71.8	61.0
1250	87.6	88.4	85.8	85.8	81.7	80.1	79.7	79.9	78.4	75.0	75.3	75.8	76.9	76.7	75.0	73.3	70.6	68.7	57.8
1600	84.5	85.1	82.4	82.6	78.4	76.8	76.5	76.7	75.3	71.7	72.2	72.7	73.9	73.6	71.9	70.2	67.3	65.3	54.4
2000	81.2	81.4	78.9	79.2	75.0	73.3	73.1	73.4	71.8	68.4	68.9	69.5	70.6	70.3	68.6	66.9	64.0	61.7	50.7
2500	77.6	77.4	75.0	75.4	71.3	69.5	69.3	69.6	68.0	64.4	64.9	65.4	66.6	66.6	64.6	62.7	59.7	57.5	45.7
3150	73.6	73.2	70.8	71.3	67.1	65.2	65.1	65.3	63.7	60.0	60.1	60.8	62.0	62.3	59.9	57.9	55.2	52.8	39.3
4000	68.7	68.4	66.0	66.3	62.3	60.3	60.1	60.4	58.7	54.9	54.7	55.4	57.0	57.3	54.6	52.3	49.8	46.6	31.9
5000	63.4	63.0	60.5	60.8	56.8	54.6	54.4	54.8	53.1	49.2	48.3	49.0	51.5	51.7	49.1	46.2	43.8	40.1	19.3
6300	57.4	57.0	54.6	54.6	50.8	48.6	48.1	48.5	46.4	42.7	41.2	42.4	45.3	45.8	42.9	39.3	37.0	32.8	7.0
8000	50.8	50.6	48.1	48.2	43.6	41.0	40.5	40.9	39.8	37.4	35.4	36.7	40.4	40.4	37.4	33.9	31.3	25.3	
10000	42.9	42.4	39.6	39.4	35.0	33.6	32.6	34.2	33.7	31.0	29.3	29.8	34.1	34.2	30.6	26.8	23.9	14.3	
12500	32.7	34.2	30.9	28.6	25.8	19.3	23.7	26.8	26.5	23.5	21.3	22.1	26.9	28.2	24.0	17.5	15.4	3.2	
16000	21.8	26.2	19.4	13.2	12.9	7.0	12.4	17.3	16.0	13.6	12.1	12.7	18.4	19.7	14.7	8.0	6.8		
20000	9.8	14.7	8.6	.1	.1	1.2	7.9	5.6	5.6	3.7	2.9	3.4	6.8	8.6	5.3				
25000		3.3																	

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OBSA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-4C AIRCRAFT  
 ENG. J79-GE-15  
 GROUND RUNUP

OPERATION: IDLE, 65% RPM SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-017  
 RUN 01  
 AIRCRAFT CODE 031  
 OPERATION CODE 01013  
 PROFILE VERSION A  
 19 DEC 75  
 PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.5	94.6	92.2	91.9	87.7	86.3	84.8	84.9	83.6	80.7	80.8	81.3	82.7	82.4	80.9	78.6	76.5	74.8	64.2
250	91.3	92.4	90.0	89.7	85.5	84.1	82.6	82.7	81.4	78.6	78.6	79.2	80.5	80.2	78.8	76.5	74.4	72.6	62.1
315	89.1	90.2	87.8	87.5	83.3	81.9	80.4	80.0	79.2	76.4	76.3	77.0	78.3	78.1	76.6	74.4	72.3	70.4	60.1
400	86.8	87.9	85.5	85.2	81.0	79.5	78.1	78.3	77.0	74.2	74.1	74.7	76.1	75.9	74.4	72.1	70.1	68.2	57.9
500	84.5	85.5	83.1	82.8	78.7	77.2	75.8	76.0	74.7	72.0	71.7	72.4	73.9	73.6	72.1	69.9	67.8	65.9	55.7
630	82.1	83.1	80.7	80.4	76.3	74.7	73.4	73.7	72.3	69.6	69.3	70.0	71.5	71.3	69.8	67.5	65.5	63.6	53.4
800	79.7	80.6	78.2	77.8	73.8	72.2	71.0	71.2	69.9	67.2	66.9	67.6	69.1	68.9	67.3	65.1	63.1	61.2	51.1
1000	77.1	77.9	75.5	75.2	71.2	69.5	68.4	68.7	67.4	64.8	64.4	65.1	66.7	66.5	64.8	62.6	60.6	58.7	48.6
1250	74.4	75.1	72.7	72.4	68.4	66.8	65.7	66.1	64.8	62.2	61.8	62.5	64.1	63.9	62.2	60.0	58.0	56.0	45.9
1600	71.5	72.1	69.9	69.4	65.6	63.8	62.9	63.3	62.1	59.6	59.1	59.8	61.5	61.2	59.5	57.2	55.3	53.3	43.1
2000	68.4	69.0	66.6	66.2	62.5	60.7	60.0	60.4	59.2	56.8	56.3	57.0	58.7	58.5	56.7	54.4	52.5	50.4	40.2
2500	65.1	65.5	63.2	62.8	59.2	57.4	56.8	57.2	56.1	53.7	53.1	53.9	55.6	55.4	53.4	51.1	49.4	47.2	36.7
3150	61.5	61.7	59.5	59.1	55.7	53.7	53.2	53.7	52.6	50.3	49.5	50.4	52.2	52.0	49.8	47.5	45.8	43.7	32.8
4000	57.5	57.5	55.4	55.1	51.8	49.7	49.4	49.8	48.8	46.5	45.7	46.6	48.5	48.2	45.8	43.5	41.9	39.8	28.6
5000	53.1	52.9	50.8	50.5	47.4	45.3	45.1	45.5	44.0	42.4	41.4	42.3	44.3	44.0	41.5	39.1	37.6	35.6	24.0
6300	48.1	47.7	45.8	45.5	42.6	40.4	40.3	40.7	40.0	37.9	36.8	37.9	39.8	39.6	36.9	34.5	33.1	31.0	19.3
8000	42.7	42.4	40.6	40.1	37.8	35.3	35.7	36.3	35.8	34.0	32.8	33.9	35.9	35.8	33.2	30.8	29.2	26.8	15.7
10000	36.8	36.7	35.0	34.3	32.6	29.9	30.8	31.6	31.3	29.8	28.6	29.6	31.8	31.8	29.2	26.8	25.1	22.3	12.0
12500	30.7	31.0	29.2	28.3	27.2	24.3	25.8	26.8	26.5	25.3	24.2	25.1	27.3	27.5	25.3	22.6	20.8	17.6	8.2
16000	24.4	25.3	23.3	22.2	21.5	18.5	20.4	21.7	21.5	20.4	19.4	20.2	22.5	22.8	20.6	18.2	16.3	12.6	4.2
20000	18.0	19.5	17.2	16.0	15.4	12.5	14.8	16.3	16.1	15.2	14.4	15.1	17.4	17.8	15.8	13.6	11.5	7.5	.2
25000	11.3	13.4	10.9	9.6	9.0	6.3	9.6	10.4	10.3	9.7	9.1	9.8	12.0	12.4	10.8	8.7	6.6	2.3	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.9	96.5	93.7	93.3	89.3	87.8	86.8	86.7	85.3	81.4	81.6	82.2	83.3	83.1	80.9	79.1	76.5	74.8	64.2
250	93.7	94.3	91.5	91.6	87.1	85.6	84.6	84.6	82.9	79.3	79.4	80.0	81.2	80.9	78.8	77.0	74.4	72.6	62.1
315	91.5	92.1	89.3	89.3	84.8	83.3	82.4	82.4	80.7	77.2	77.2	77.9	79.0	78.8	76.6	74.9	72.3	70.4	60.1
400	89.2	89.8	87.0	87.0	82.6	81.0	80.1	80.1	78.4	74.9	74.9	75.5	76.8	76.6	74.4	72.7	70.1	68.2	57.9
500	86.9	87.4	84.6	84.7	80.2	78.6	77.8	77.9	76.1	72.7	72.6	73.2	74.5	74.3	72.1	70.4	67.8	65.9	55.7
630	84.5	85.0	82.2	82.2	77.8	76.2	75.4	75.5	73.8	70.4	70.2	70.6	72.2	72.0	69.8	68.0	65.5	63.6	53.4
800	82.0	82.5	79.6	79.7	75.3	73.7	73.0	73.1	71.3	68.0	67.7	68.4	69.8	69.6	67.3	65.6	63.1	61.2	51.1
1000	79.5	79.8	77.0	77.0	72.7	71.0	70.4	70.5	68.8	65.5	65.2	65.9	67.3	67.1	64.8	63.1	60.6	58.7	48.6
1250	76.8	77.0	74.2	74.2	70.0	68.2	67.7	67.9	66.2	62.9	62.6	63.3	64.8	64.6	62.2	60.5	58.0	56.0	45.9
1600	73.9	74.0	71.2	71.3	67.1	65.3	64.9	65.1	63.5	60.3	59.9	60.6	62.1	61.9	59.5	57.7	55.3	53.3	43.1
2000	70.8	70.9	68.1	68.1	64.1	62.2	61.9	62.2	60.7	57.5	57.1	57.9	59.4	59.2	56.7	54.9	52.5	50.4	40.2
2500	67.5	67.4	64.7	64.7	60.8	58.8	58.7	59.0	57.5	54.4	53.9	54.7	56.3	56.1	53.4	51.6	49.4	47.2	36.7
3150	63.9	63.6	61.0	61.0	57.2	55.2	55.2	55.5	54.1	51.0	50.4	51.2	52.9	52.7	49.8	48.0	45.8	43.7	32.8
4000	59.4	59.1	56.6	56.5	53.0	50.9	51.0	51.3	50.0	47.1	46.3	47.2	49.0	48.8	45.8	43.9	41.9	39.8	28.6
5000	54.5	54.0	51.7	51.6	48.4	46.1	46.3	46.6	45.5	42.8	41.9	42.8	44.7	44.4	41.5	39.4	37.6	35.6	24.0
6300	49.0	48.5	46.4	46.2	43.3	40.9	41.1	41.5	40.6	38.2	37.2	38.2	40.1	39.8	36.9	34.8	33.1	31.0	19.3
8000	43.2	42.7	40.9	40.5	38.1	35.6	36.1	36.6	36.0	34.1	33.0	34.0	36.1	36.0	33.2	30.9	29.2	26.8	15.7
10000	36.8	36.7	35.0	34.3	32.6	29.9	30.8	31.6	31.3	29.8	28.6	29.6	31.8	31.8	29.2	26.8	25.1	22.3	12.0
12500	30.7	31.0	29.2	28.3	27.2	24.3	25.8	26.8	26.5	25.3	24.2	25.1	27.3	27.5	25.0	22.6	20.8	17.6	8.2
16000	24.4	25.3	23.3	22.2	21.5	18.5	20.4	21.7	21.5	20.4	19.4	20.2	22.5	22.8	20.6	18.2	16.3	12.6	4.2
20000	18.0	19.5	17.2	16.2	15.4	12.5	14.8	16.3	16.1	15.2	14.4	15.1	17.4	17.8	15.8	13.6	11.5	7.5	.2
25000	11.3	13.4	10.9	9.6	9.0	6.3	8.6	10.4	10.3	9.7	9.1	9.8	12.0	12.4	10.8	8.7	6.6	2.3	

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-4C AIRCRAFT  
 ENJ. J79-GE-15  
 GROUND RUNUP  
 OPERATION: IDLE, 65% RPM SINGLE ENGINE  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 WIND DIRECTION = 70 °  
 DELTA N = 0.0 DB  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-017  
 RUN 01  
 AIRCRAFT CODE 031  
 OPERATION CODE 01013  
 PROFILE VERSION A  
 19 DEC 75  
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ANGLE	NOISE LEVEL IN PNDB OR DBA											
	10	20	30	40	50	60	70	80	90	100	110	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
170												
180												

TABLE 1 NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
OPERATION:																			
ENGINE RUNUP, 85% RPM																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
AIRCRAFT CODE 031																			
OPERATION CODE 01014																			
PROFILE VERSION A																			
19 DEC 75																			
PAGE C2																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-017																			
RUN 02																			
BAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	74	73	74	76	78	80	81	82	82	83	85	86	87	92	96	97	97	94	81
63	76	76	77	79	82	82	83	84	85	85	87	88	91	95	98	101	100	96	77
80	78	78	79	81	83	82	85	85	85	86	88	89	93	98	101	102	101	96	72
100	80	80	82	86	85	84	86	88	88	90	92	93	94	100	106	106	104	98	72
125	81	81	84	86	86	88	88	89	91	91	93	95	96	102	108	108	105	97	74
160	83	84	87	87	88	88	90	91	92	92	95	97	99	103	108	109	107	98	76
200	81	84	86	86	86	87	88	89	89	91	94	95	97	101	105	107	104	95	72
250	80	82	83	84	85	86	86	88	88	89	91	93	96	99	101	104	102	92	69
315	81	84	87	87	88	88	91	92	93	93	95	95	98	101	101	103	104	93	69
400	82	85	90	90	92	92	95	96	97	96	98	98	100	103	103	101	103	93	68
500	81	84	88	89	93	91	94	95	95	97	98	98	100	101	100	98	97	84	65
630	84	89	88	89	90	91	94	95	97	94	96	99	100	101	100	98	97	84	65
800	89	98	91	96	97	99	103	101	103	99	99	109	110	110	104	107	103	90	71
1000	79	82	83	85	86	86	89	91	92	92	93	94	95	98	98	96	93	80	63
1250	80	82	83	86	87	86	89	92	92	92	92	94	94	96	96	93	89	77	61
1600	83	84	84	87	87	86	89	91	91	93	92	93	96	96	94	90	86	76	63
2000	97	96	92	95	93	88	90	90	90	91	90	92	94	95	93	90	86	76	60
2500	97	97	94	95	95	92	93	91	89	90	89	90	93	94	91	88	83	76	59
3150	86	86	84	86	86	82	85	85	86	87	86	87	90	91	89	84	79	71	56
4000	89	88	84	86	88	82	85	85	86	86	86	86	88	90	88	83	78	71	55
5000	87	87	83	86	87	81	85	83	83	83	82	82	84	88	85	80	75	69	52
6300	83	83	79	82	84	78	81	80	81	80	81	81	83	85	83	79	73	68	49
8000	80	81	78	80	82	76	80	78	79	77	79	78	80	82	80	76	72	67	45
10000	75	75	73	75	75	72	74	73	74	72	75	73	75	77	74	72	67	62	41
OVERALL	102	103	100	103	103	103	106	106	107	106	107	111	113	114	115	116	114	106	85

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNDB)												AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE												METEOROLOGY:												IDENTIFICATIONS:																																																																																																																																																																																																																																																																																																																																																																					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 09	OMEGA 8.2 TEST 74-004-017 RUN 02 AIRCRAFT CODE 031 OPERATION CODE 01018 PROFILE VERSION A 19 DEC 75 PAGE 02																																																																																																																																																																																																																																																																																																																																																																		
200	117.9	118.5	116.1	116.0	118.3	115.9	118.0	117.5	118.4	117.3	117.6	122.0	123.7	125.3	123.3	123.5	120.7	111.1	90.4	115.7	116.3	113.9	115.8	116.1	113.7	115.8	115.3	116.2	115.1	115.4	119.9	123.6	123.1	121.1	121.4	118.7	109.0	86.2	117.3	117.6	113.2	113.0	113.8	111.4	110.9	111.2	117.2	118.8	116.8	117.1	114.4	104.7	83.6	108.5	109.1	106.8	108.7	109.0	106.7	109.1	108.5	109.5	108.2	108.7	113.3	114.9	116.5	114.5	114.8	112.2	102.4	81.2	105.9	106.6	104.2	106.1	106.4	104.1	106.7	106.2	107.1	105.7	106.3	110.9	112.6	114.1	112.1	112.5	109.9	100.0	78.8	103.2	103.8	101.5	103.4	103.7	101.5	104.2	103.7	104.6	103.2	103.8	108.5	110.2	111.7	109.7	110.1	107.6	97.6	76.2	100.2	101.0	98.7	100.6	100.9	98.7	101.6	101.1	102.0	100.6	101.2	106.0	107.6	109.2	107.1	107.5	105.1	95.0	73.6	97.1	97.9	95.6	97.5	97.8	95.6	98.9	98.4	99.3	97.8	98.4	103.4	105.0	106.5	104.4	104.9	102.5	92.3	70.7	93.7	94.5	92.3	94.2	94.5	92.7	96.0	95.5	96.4	94.9	95.5	100.6	102.2	103.6	101.4	102.0	99.6	89.4	67.7	90.0	90.9	88.7	90.6	90.9	89.7	93.0	92.4	93.4	91.8	92.4	97.6	99.2	100.6	98.3	98.9	96.7	86.2	64.3	86.0	86.9	84.7	86.6	86.9	86.4	89.2	89.2	88.5	89.0	94.4	96.0	97.4	94.9	95.6	92.9	82.2	60.7	81.6	82.5	80.2	82.3	82.5	82.8	86.3	85.6	86.6	84.8	85.4	91.0	92.6	93.8	91.2	91.9	88.9	77.8	56.6	76.9	78.4	75.2	77.8	78.5	78.9	82.5	81.8	82.8	80.8	81.4	87.3	89.9	90.0	87.1	87.9	84.8	73.0	51.8	71.5	74.0	69.7	73.3	73.9	74.6	78.2	77.4	78.5	76.4	77.0	83.2	84.7	85.7	82.7	83.6	80.4	68.4	46.7	65.5	69.1	64.6	68.3	69.0	69.8	73.5	72.7	73.8	71.6	72.1	78.6	80.0	81.1	77.9	78.9	75.7	63.4	40.5	59.1	64.5	60.0	63.8	64.5	65.5	69.2	68.4	69.6	67.3	67.9	74.4	75.9	76.9	73.8	74.9	71.7	59.2	34.9	52.3	59.4	54.8	58.8	59.6	60.6	64.5	63.7	64.9	62.5	63.2	69.8	71.3	72.4	69.4	70.6	67.4	54.6	28.2	45.9	53.7	49.1	53.2	54.1	55.3	59.2	58.4	59.6	57.3	58.0	64.6	66.2	67.4	64.4	65.7	62.6	49.6	20.0	37.5	46.8	41.7	46.5	47.6	49.0	53.0	52.3	53.6	51.8	52.8	58.7	60.3	61.6	58.9	60.2	57.2	44.4	11.8	28.6	39.0	34.2	38.1	39.8	41.0	46.0	45.2	46.6	45.7	46.9	51.9	53.6	55.0	52.6	54.1	52.0	38.5	3.6	16.1	29.4	26.6	29.2	32.4	32.1	36.7	36.1	37.0	37.5	39.5	43.9	45.6	47.4	46.4	46.7	46.1	31.9	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY																			
	TEMP = 59 F																			
F-4C AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. J79-GE-15	DELTA N = 0.0 DB																			
GROUND RUNUP																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-017																				
RUN 02																				
AIRCRAFT CODE 031																				
OPERATION CODE 01018																				
PROFILE WPSION A																				
19 DEC 75																				
PAGE 52																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	190	
200	120.7	122.6	118.5	120.9	121.2	119.5	121.9	120.1	121.1	119.3	119.2	126.2	128.0	129.8	125.1	126.8	122.9	113.9	92.9	
250	118.5	120.4	116.3	118.7	119.0	117.3	119.7	118.0	118.9	117.1	117.0	124.1	125.8	126.7	123.0	124.7	120.9	111.7	90.6	
315	116.2	118.1	114.0	116.4	116.7	115.0	117.5	115.8	116.8	114.5	114.8	121.9	123.7	124.5	120.8	122.5	118.7	109.5	88.3	
400	113.6	115.7	111.6	114.0	114.4	112.7	115.2	113.5	114.5	112.5	112.6	119.7	121.4	122.3	118.6	120.4	116.6	107.4	86.0	
500	111.3	113.3	109.2	111.6	111.9	110.3	112.9	111.2	112.2	110.1	110.3	117.4	119.2	120.1	116.4	118.1	114.4	105.1	83.6	
630	108.7	110.7	106.6	109.0	109.3	107.8	110.5	108.8	109.9	107.7	107.9	115.1	115.8	117.7	114.0	115.8	112.1	102.7	81.2	
800	106.0	108.0	103.9	106.3	106.6	105.1	108.1	106.3	107.4	105.2	105.4	112.7	114.4	115.3	111.5	113.4	109.8	100.3	78.6	
1000	103.1	105.1	101.0	103.5	103.8	102.3	105.5	103.8	104.8	102.6	102.8	110.2	111.9	112.7	109.0	110.9	107.3	97.7	76.0	
1250	99.9	102.0	98.0	100.4	100.7	99.3	102.8	101.0	102.0	99.8	100.0	107.5	109.2	110.0	106.2	108.2	104.6	95.0	73.1	
1600	96.5	98.7	94.6	97.1	97.4	96.4	99.9	98.1	99.2	96.9	97.1	104.7	106.4	107.2	103.3	105.3	101.8	92.1	70.1	
2000	92.9	95.0	91.1	93.5	93.8	93.3	96.9	95.1	96.2	93.8	94.0	101.8	103.5	104.2	100.2	102.2	98.9	88.9	66.7	
2500	88.8	91.0	87.1	89.5	89.8	90.0	93.6	91.8	92.9	90.4	90.6	98.6	100.3	100.9	96.8	98.9	95.1	84.9	63.1	
3150	84.5	86.6	82.6	85.2	85.4	86.4	90.1	88.3	89.4	86.8	87.0	95.2	96.8	97.4	93.0	95.2	91.1	80.5	59.0	
4000	79.1	81.7	77.1	80.1	80.8	81.8	85.6	83.9	85.0	82.4	82.6	90.7	92.3	92.8	88.6	90.6	86.6	75.1	53.7	
5000	73.2	76.5	71.1	75.0	75.7	76.8	80.5	79.0	80.2	77.6	77.9	85.7	87.2	87.9	83.8	85.6	81.7	70.0	48.2	
6300	66.7	70.7	65.5	69.5	70.2	71.2	75.0	73.7	74.9	72.4	72.8	80.2	81.7	82.5	78.6	80.2	76.5	64.4	41.5	
8000	59.6	65.4	60.4	64.4	65.1	66.2	70.0	69.0	70.1	67.7	68.2	75.2	76.7	77.7	74.2	75.6	72.2	59.7	35.4	
10000	52.3	59.4	54.8	58.8	59.6	60.6	64.5	63.7	64.9	62.5	63.2	69.9	71.3	72.4	69.4	70.6	67.4	54.6	28.2	
12500	45.9	53.7	49.1	53.2	54.1	55.3	59.2	58.4	59.6	57.3	58.0	64.6	66.2	67.4	64.4	65.7	62.6	49.5	20.0	
16000	37.5	46.8	41.7	46.5	47.6	49.0	53.0	52.3	53.6	51.8	52.8	58.7	60.3	61.6	58.9	60.2	57.2	44.4	11.8	
20000	28.6	39.0	34.2	38.1	39.8	41.0	46.0	45.2	46.6	45.7	46.9	51.9	53.6	55.0	52.6	54.1	52.0	38.5	3.6	
25000	16.1	29.4	26.6	29.2	32.4	32.1	36.7	36.1	37.0	37.5	39.5	43.9	45.6	47.4	46.4	46.7	46.1	31.9		



TABLE 4 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	104.5	105.4	101.7	104.3	104.4	103.5	106.8	106.1	107.0	105.6	106.0	111.4	112.8	113.6	110.7	111.3	108.8	97.4	77.4
250	102.3	103.3	99.5	102.1	102.2	101.3	104.7	104.0	104.9	103.5	103.9	109.3	110.7	111.5	108.6	109.2	106.8	95.3	75.3
315	100.0	101.1	97.3	99.9	100.0	99.2	102.6	101.9	102.8	101.4	101.8	107.2	108.6	109.4	106.5	107.1	104.7	93.3	73.2
400	97.7	98.8	95.0	97.7	97.8	97.0	100.4	99.7	100.7	99.2	99.6	105.1	106.5	107.3	104.4	105.0	102.6	91.2	71.1
500	95.3	96.5	92.7	95.4	95.5	94.8	98.2	97.6	98.5	97.0	97.4	103.0	104.4	105.2	102.2	102.9	100.5	89.0	68.9
630	92.8	94.1	90.3	93.0	93.1	92.6	96.0	95.3	96.3	94.8	95.2	100.8	102.2	103.0	100.0	100.6	98.3	86.8	66.6
800	90.2	91.6	87.8	90.5	90.7	90.3	93.8	93.1	94.1	92.5	93.0	98.6	100.0	100.7	97.7	98.4	96.0	84.5	64.3
1000	87.5	89.1	85.2	88.0	88.2	87.9	91.4	90.8	91.3	90.1	90.6	96.3	97.7	98.5	95.4	96.0	93.7	82.1	62.0
1250	84.6	86.4	82.5	85.3	85.6	85.5	89.1	88.4	89.4	87.7	88.2	94.0	95.4	96.1	92.9	93.6	91.3	79.5	59.5
1600	81.5	83.6	79.7	82.6	82.9	83.0	86.6	85.9	86.9	85.2	85.8	91.6	92.9	93.6	90.4	91.1	88.7	76.9	56.9
2000	78.1	80.7	75.7	79.7	80.1	80.3	84.0	83.3	84.4	82.6	83.2	89.1	90.4	91.1	87.8	88.5	86.1	74.1	54.2
2500	74.5	77.6	73.5	76.5	77.1	77.5	81.3	80.5	81.6	79.7	80.3	86.4	87.7	88.4	84.9	85.6	83.0	70.9	51.2
3150	70.6	74.4	70.0	73.2	73.9	74.5	78.3	77.5	78.7	76.6	77.2	83.5	84.8	85.4	81.8	82.6	79.8	67.4	48.1
4000	66.3	70.9	66.2	69.6	70.3	71.3	75.2	74.2	75.4	73.1	73.7	80.4	81.7	82.3	78.4	79.4	76.2	63.7	44.6
5000	61.5	66.9	61.9	65.6	66.3	67.5	71.4	70.4	71.6	69.2	69.8	76.7	78.0	78.5	74.5	75.6	72.2	59.5	40.7
6300	56.3	62.5	57.3	61.1	61.9	63.2	67.2	66.1	67.4	64.9	65.5	72.5	73.8	74.3	70.2	71.4	67.9	55.1	36.5
8000	51.2	58.4	53.2	57.0	57.9	59.3	63.3	62.2	63.5	61.8	61.6	69.6	69.9	70.4	66.3	67.5	64.2	51.4	32.6
10000	46.1	54.0	48.8	52.5	53.6	54.9	59.0	57.9	59.1	56.7	57.3	64.3	65.6	66.1	62.1	63.2	60.0	47.4	28.3
12500	40.8	48.9	44.0	47.6	48.8	50.1	54.1	53.0	54.3	51.9	52.7	59.3	60.6	61.2	57.4	58.4	55.5	43.1	23.6
16000	35.2	43.3	38.8	42.1	43.4	44.5	48.5	47.6	48.8	46.7	47.5	53.7	55.0	55.7	52.1	53.0	50.4	38.4	18.4
20000	29.0	36.7	33.0	36.0	37.4	38.3	42.1	41.5	42.6	40.9	41.8	47.3	48.6	49.4	46.4	47.1	45.0	33.4	12.8
25000	22.1	29.1	26.6	29.1	30.8	31.2	34.9	34.6	35.6	34.5	35.4	41.3	41.3	42.4	40.4	40.8	39.3	28.4	7.2

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-4C AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. J79-GE-15	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 0.0 DB																		
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-017																			
RUN 02																			
AIRCRAFT CODE 031																			
OPERATION CODE 01010																			
PROFILE VERSION A																			
19 DEC 75																			
PAGE 62																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.3	109.6	104.1	107.2	107.3	107.1	110.6	108.8	109.8	107.6	107.6	115.6	117.1	117.2	120.6	114.6	111.0	100.1	79.8
250	105.1	107.4	101.9	105.0	105.1	105.0	108.5	106.7	107.7	105.5	105.5	113.5	115.0	115.1	120.5	112.5	109.0	98.0	77.7
315	102.9	105.2	99.7	102.8	102.9	102.8	106.4	104.5	105.6	103.3	103.4	111.4	112.9	113.0	108.4	110.4	106.9	96.0	75.6
400	100.5	102.9	97.4	100.6	100.7	100.7	104.3	102.4	103.4	101.2	101.2	109.3	110.8	110.9	106.3	108.3	104.8	93.9	73.5
500	98.1	100.6	95.1	98.3	98.4	98.5	102.1	100.2	101.3	99.0	99.0	107.2	108.6	108.7	104.1	106.2	102.7	91.7	71.3
630	95.6	98.2	92.7	95.9	96.0	96.2	99.9	98.0	99.1	96.7	96.8	105.0	106.5	106.5	101.9	104.5	100.5	89.5	69.0
800	93.0	95.8	90.2	93.4	93.6	93.9	97.6	95.7	96.8	94.5	94.6	102.8	104.2	104.3	99.6	101.7	98.2	87.2	66.7
1000	90.3	93.2	87.6	90.9	91.1	91.6	95.3	93.4	94.5	92.1	92.2	100.5	102.0	102.0	97.2	99.4	95.9	84.9	64.4
1250	87.4	90.5	84.9	88.3	88.5	89.1	92.9	91.0	92.2	89.7	89.8	98.2	99.6	99.7	94.8	96.9	93.5	82.2	61.9
1600	84.3	87.7	82.1	85.5	85.8	86.6	90.5	88.6	89.7	87.2	87.4	95.7	97.2	97.2	92.3	94.4	90.9	79.6	59.3
2000	81.0	84.8	79.1	82.6	83.0	84.0	87.9	86.0	87.1	84.6	84.8	93.2	94.7	94.7	89.7	91.8	88.3	76.8	56.6
2500	77.4	81.7	75.8	79.5	80.0	81.2	85.1	83.2	84.4	81.7	81.9	90.5	92.0	91.9	86.8	89.0	85.2	73.6	53.6
3150	73.4	78.5	72.3	76.1	76.7	78.1	82.2	80.2	81.4	78.6	78.8	87.7	89.1	89.0	83.6	85.9	82.0	70.1	50.5
4000	68.6	74.2	68.1	72.0	72.6	74.2	78.3	76.4	77.6	74.7	75.0	83.7	85.1	85.1	79.8	82.0	78.0	65.8	46.6
5000	63.2	69.4	63.3	67.3	68.0	69.6	73.7	72.0	73.3	70.4	70.7	79.2	80.5	80.6	75.6	77.6	73.5	61.2	42.2
6300	57.4	64.2	58.3	62.3	63.1	64.7	68.8	67.2	68.5	65.7	66.1	74.2	75.5	75.7	70.9	72.7	66.8	56.2	37.4
8000	51.8	59.3	53.7	57.6	58.5	60.3	64.1	62.8	64.0	61.4	61.9	69.4	70.8	71.1	65.7	68.2	64.6	52.0	33.0
10000	46.1	54.0	48.8	52.5	53.6	54.9	59.0	57.9	59.1	56.7	57.3	64.3	65.6	66.1	62.1	63.2	60.0	47.4	28.3
12500	40.8	48.9	44.0	47.6	48.8	50.1	54.1	53.0	54.3	51.9	52.7	59.3	60.6	61.2	57.4	58.4	55.5	43.1	23.6
16000	35.2	43.3	38.8	42.1	43.4	44.5	48.5	47.6	48.8	46.7	47.5	53.7	55.0	55.7	52.1	53.0	50.4	38.4	18.4
20000	29.0	36.7	33.0	36.0	37.4	38.3	42.1	41.5	42.6	40.9	41.8	47.3	48.6	49.4	46.4	47.1	45.0	33.4	12.8
25000	22.1	29.1	26.6	29.1	30.8	31.2	34.9	34.6	35.6	34.5	35.4	39.9	41.3	42.4	40.4	40.8	39.3	28.4	7.2

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( ( DISTANCE = 250 FEET  
 ( ( NOISE SOURCE/SUBJECT:  
 ( F-4C AIRCRAFT  
 ( ENG. J79-GE-15  
 ( GROUND RUNUP  
 ( ( ( OPERATIONS:  
 ( ENGINE RUNUP, 85% RPM  
 ( SINGLE ENGINE  
 ( ( METEOROLOGY:  
 ( TEMP = 59 F  
 ( BAR PRETS = 29.92 IN HG  
 ( REL HUMID = 70 %  
 ( DELTA N = 0.0 DB  
 ( ( IDENTIFICATION:  
 ( OMEGA 8.2  
 ( TEST 74-004-017  
 ( RUN 92  
 ( AIRCRAFT CODE 031  
 ( OPERATION CODE 01018  
 ( PROFILE VERSION A  
 ( 19 DEC 75  
 ( PAGE J2

ANGLE	P=PNLT		A=AL		T=ALT	
	70	80	90	100	110	120
0	.	.	.	.	.	.
10	.	.	.	.	A.T.	P.
20	.	.	.	.	A.T.	P.
30	.	.	.	.	A.T.	P.
40	.	.	.	.	A.T.	P.
50	.	.	.	.	A.T.	P.
60	.	.	.	.	A.T.	P.
70	.	.	.	.	A.T.	P.
80	.	.	.	.	A.T.	P.
90	.	.	.	.	A.T.	P.
100	.	.	.	.	A.T.	P.
110	.	.	.	.	A.T.	P.
120	.	.	.	.	A.T.	P.
130	.	.	.	.	A.T.	P.
140	.	.	.	.	A.T.	P.
150	.	.	.	.	A.T.	P.
160	.	.	.	.	A.T.	P.
170	.	.	.	.	A.T.	P.
180	.	.	.	.	A.T.	P.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		) OMEGA 8.2																	
DISTANCE = 250 FEET		) TEST 74-004-017																	
		) RUN 03																	
NOISE SOURCE/SUBJECT:		) METEOROLOGY:																	
( F-4C AIRCRAFT		) TEMP = 59 F																	
( ENG. J79-GE-15		) BAR PRESS = 29.92 IN HG																	
( GROUND RUNUP		) PROFILE VERSION A																	
		) REL HUMID = 70 %																	
		) DELTA N = 0.0 DB																	
		) PAGE C3																	
BAND CENTER		ANGLE (DEGREES)																	
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	81	81	81	82	83	82	85	86	88	88	89	91	94	99	105	107	105	100	80
63	83	83	83	85	87	85	87	89	91	91	92	93	98	104	108	110	107	99	79
80	84	84	87	87	88	89	89	89	91	93	94	97	101	108	111	112	108	99	79
100	87	87	89	91	90	92	92	94	95	96	98	100	106	113	116	115	111	100	80
125	88	89	92	92	92	95	94	97	98	98	101	102	107	116	119	117	112	100	80
160	91	92	95	94	95	96	97	98	99	99	103	104	109	118	121	119	114	99	79
200	91	93	94	94	93	95	96	96	97	99	103	104	107	116	119	118	112	96	76
250	88	92	92	93	93	95	93	96	96	98	100	103	107	113	117	111	111	92	72
315	90	92	96	95	94	96	96	97	97	99	102	106	110	116	118	114	114	93	73
400	93	96	98	96	97	98	99	101	100	102	105	108	111	117	121	119	115	90	70
500	92	93	96	97	100	99	101	102	100	103	105	108	110	115	117	116	113	86	66
630	91	93	96	96	97	98	98	99	99	100	103	107	109	112	115	113	110	84	64
800	94	94	97	98	101	101	101	102	100	102	105	108	109	113	115	112	109	83	63
1000	90	92	94	96	98	98	99	99	99	100	102	105	106	109	113	110	108	82	62
1250	89	91	93	96	97	96	98	101	99	101	104	107	106	109	111	110	107	81	61
1600	87	90	93	95	94	95	98	100	99	101	104	108	107	108	111	109	105	80	60
2000	84	87	90	92	93	94	95	97	98	98	102	107	104	107	109	107	103	78	58
2500	84	86	90	92	94	94	95	97	98	97	99	107	104	106	108	106	102	76	56
3150	82	84	87	88	90	90	92	94	95	94	96	104	101	103	105	103	98	73	53
4000	82	83	86	87	88	88	91	92	95	93	94	103	101	103	105	102	97	71	51
5000	80	80	84	84	86	86	88	89	92	90	92	100	97	100	102	99	93	68	48
6300	77	78	82	83	83	82	85	87	90	88	89	99	96	98	100	97	91	65	45
8000	75	76	79	80	82	81	83	84	89	85	88	97	94	96	99	94	89	63	43
10000	70	71	74	75	76	75	78	79	85	80	83	92	90	92	96	89	85	58	38
OVERALL	102	104	106	107	108	109	110	111	111	112	115	118	120	126	129	128	123	108	88

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	113.1	114.9	117.7	119.0	120.5	120.7	122.0	123.6	124.2	124.4	126.9	132.5	131.8	135.8	139.7	137.0	132.7	112.1	91.8
250	110.9	112.7	115.5	116.8	118.3	118.5	119.8	121.4	122.0	122.2	124.7	130.3	129.6	133.7	136.5	134.9	130.5	110.1	89.7
315	108.7	110.4	113.3	114.5	116.0	116.3	117.5	119.1	119.7	120.0	122.5	128.0	127.3	131.5	134.4	132.7	128.4	108.0	87.5
400	106.5	108.2	110.9	112.2	113.7	113.9	115.2	116.8	117.4	117.7	120.2	125.6	125.0	129.3	132.2	130.6	126.2	105.8	85.1
500	104.1	105.9	108.5	109.8	111.3	111.5	112.8	114.4	115.0	115.3	117.9	123.2	122.6	127.0	129.9	128.3	124.0	103.4	82.6
630	101.7	103.5	106.1	107.3	108.8	109.9	110.3	111.9	112.4	112.8	115.4	120.7	120.1	124.7	127.6	126.0	121.7	101.0	79.9
800	99.2	101.0	103.5	104.8	106.1	106.4	107.7	109.3	109.7	110.2	112.9	118.0	117.5	122.2	125.1	123.6	119.3	98.4	77.1
1000	96.6	98.4	100.9	102.1	103.4	103.7	104.9	106.6	106.9	107.5	110.2	115.2	114.7	119.7	122.6	121.1	116.8	95.7	74.2
1250	93.6	95.2	98.1	99.2	100.5	100.8	101.9	103.8	103.9	104.6	107.4	112.1	111.9	117.0	119.9	118.4	114.1	92.6	71.2
1600	90.8	92.8	95.2	96.2	97.5	97.9	98.9	100.7	100.6	101.6	104.3	108.9	109.0	114.2	117.1	115.6	111.4	89.5	68.2
2000	87.7	89.8	92.2	92.9	94.4	94.8	95.8	97.4	97.2	98.3	101.1	105.4	105.9	111.2	114.2	112.7	108.4	86.2	64.9
2500	84.3	86.0	88.4	89.4	91.1	91.4	92.5	93.8	93.5	94.8	97.5	101.3	102.3	107.4	110.4	108.9	104.7	82.2	60.8
3150	80.6	82.0	84.5	85.7	87.5	87.7	88.6	89.9	89.5	90.9	93.6	97.6	98.4	103.2	106.2	104.7	100.5	77.7	55.9
4000	76.6	77.9	80.4	81.7	83.5	83.8	84.5	85.8	85.1	86.6	89.4	93.2	94.0	98.8	101.5	100.0	96.0	72.7	53.2
5000	72.1	73.5	75.9	77.3	79.1	79.4	80.1	81.2	80.4	82.1	85.0	88.3	89.3	94.0	96.5	95.1	91.3	67.4	43.6
6300	67.3	68.6	71.1	72.4	74.3	74.6	75.3	76.3	75.4	77.2	80.1	83.3	84.5	89.1	91.5	90.2	86.5	62.2	37.1
8000	63.0	64.3	66.7	68.1	70.0	70.3	70.9	71.9	71.0	72.9	75.8	78.9	80.4	85.3	87.7	86.5	82.7	58.3	30.7
10000	59.3	59.6	62.0	63.3	65.2	65.5	66.3	67.5	66.2	68.5	71.3	74.5	76.2	81.2	83.7	82.5	78.7	54.0	23.1
12500	52.8	54.3	56.9	58.0	60.2	60.3	61.5	62.7	61.2	63.9	66.5	69.7	71.6	76.9	79.4	78.2	74.3	49.3	14.3
16000	46.8	49.1	51.5	52.3	54.9	54.8	56.3	57.5	55.9	58.5	61.4	64.6	66.7	72.1	74.7	73.5	69.5	44.0	5.6
20000	40.1	42.6	45.4	46.2	49.0	48.9	50.4	51.7	50.0	52.7	55.6	58.8	61.0	66.8	69.7	68.3	64.3	37.7	
25000	31.7	34.7	38.0	38.7	41.8	41.7	43.1	44.6	42.7	45.9	49.2	52.3	54.9	61.0	64.3	62.9	58.4	30.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-4C AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG. J79-GE-15	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = 0.0 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-017																				
RUN 03																				
AIRCRAFT CODE 031																				
OPERATION CODE 01004																				
PROFILE VERSION A																				
19 DEC 75																				
PAGE 53																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	114.4	114.9	117.7	119.0	121.6	120.7	122.0	123.6	124.2	124.4	126.9	132.5	131.8	135.8	139.2	137.0	132.7	112.1	91.8	
250	112.2	112.7	115.5	116.8	119.4	118.5	119.8	121.4	122.0	122.2	124.7	130.3	129.6	133.7	137.1	134.9	130.5	110.1	89.7	
315	110.0	110.4	113.3	114.5	117.2	116.3	117.5	119.1	119.7	120.0	122.5	128.6	127.3	131.5	134.9	132.7	128.4	108.0	87.5	
400	107.7	108.2	110.9	112.2	114.9	113.9	115.2	116.8	117.4	117.7	120.2	125.6	125.0	129.3	132.7	130.6	126.2	105.8	85.1	
500	105.4	105.9	108.5	109.8	112.4	111.5	112.8	114.4	115.0	115.3	117.9	123.2	122.6	127.0	130.4	128.3	124.0	103.4	82.6	
630	103.0	103.5	106.1	107.3	109.9	109.0	110.3	111.9	112.4	112.8	115.4	120.7	120.1	124.7	128.1	126.0	121.7	101.0	79.9	
800	100.5	101.0	103.5	104.8	107.3	106.4	107.7	109.3	109.7	110.2	112.9	118.0	117.5	122.2	125.7	123.6	119.3	98.4	77.1	
1000	97.8	98.4	100.9	102.1	104.5	103.7	104.9	106.6	106.9	107.5	110.2	115.2	114.7	119.7	123.1	121.1	116.8	95.7	74.2	
1250	95.0	95.7	98.1	99.2	101.6	100.8	101.9	103.8	103.9	104.6	107.4	112.1	111.9	117.0	120.5	118.4	114.1	92.6	71.2	
1600	92.1	92.8	95.2	96.2	98.7	97.9	98.9	100.7	100.6	101.6	104.3	108.9	109.0	114.2	117.7	115.6	111.4	89.5	68.2	
2000	89.0	89.8	92.2	92.9	95.6	94.8	95.8	97.4	97.2	98.3	101.1	105.4	105.6	111.2	114.7	112.7	108.4	86.2	64.9	
2500	85.6	86.0	88.4	88.4	92.3	91.4	92.5	93.8	93.5	94.8	97.5	101.6	102.3	107.4	110.9	108.9	104.7	82.2	60.8	
3150	81.9	82.0	84.5	85.7	88.4	87.7	88.6	89.9	89.5	90.9	93.6	97.6	98.4	103.2	106.7	104.7	100.5	77.7	55.9	
4000	77.6	77.9	80.4	81.7	84.4	83.4	84.5	85.6	85.1	86.6	89.4	93.2	94.0	98.8	101.9	100.0	96.0	72.7	50.2	
5000	72.9	73.5	75.9	77.3	79.8	79.4	80.1	81.2	80.4	82.1	85.0	88.3	89.3	94.0	96.8	95.1	91.3	67.4	43.6	
6300	67.8	68.6	71.1	72.4	74.8	74.6	75.3	76.3	75.4	77.2	80.1	83.3	84.5	89.1	91.8	90.2	86.5	62.2	37.1	
8000	63.3	64.3	66.7	68.1	70.2	70.3	70.9	71.9	71.0	72.9	75.8	78.9	80.4	85.3	87.8	86.5	82.7	58.3	30.7	
10000	58.3	59.6	62.0	63.3	65.2	65.5	66.3	67.5	66.2	68.5	71.3	74.5	76.2	81.2	83.7	82.5	78.7	54.0	23.1	
12500	52.8	54.3	56.9	58.0	60.2	60.3	61.5	62.7	61.2	63.8	66.5	69.7	71.6	76.9	79.4	78.2	74.3	49.3	14.3	
16000	46.8	49.1	51.5	52.3	54.9	54.8	56.3	57.5	55.9	58.5	61.4	64.6	66.7	72.1	74.7	73.5	69.5	44.0	5.6	
20000	40.1	42.6	45.4	46.2	49.0	48.9	50.4	51.7	50.0	52.7	55.6	58.8	61.0	66.8	69.7	68.3	64.3	37.7		
25000	31.7	34.7	38.0	38.7	41.8	41.7	43.1	44.6	42.7	45.9	49.2	52.3	54.9	61.0	64.3	62.9	58.4	30.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:	OPERATION:																				
	MILITARY POWER, 100% RPM																				
F-4C AIRCRAFT	METEOROLOGY:																				
	TEMP = 59 F																				
ENG. J79-GE-15	BAR PRESS = 29.92 IN HG																				
	REL HUMID = 70 %																				
GROUND RUNUP	DELTA N = 0.0 DB																				
	PAGE F3																				
DISTANCE	ANGLE (DEGREES)																				
	(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	101.4	103.2	105.0	107.1	109.6	108.8	110.0	111.4	114.9	119.3	119.1	123.0	125.6	123.9	120.1	97.2	77.2				
250	99.3	101.1	103.7	105.0	106.5	106.7	107.9	109.3	108.9	110.0	112.8	117.1	117.0	120.9	123.5	121.8	118.0	95.2	75.2		
315	97.2	99.0	101.5	102.8	104.4	104.6	105.8	107.2	106.7	107.9	110.6	114.9	114.8	118.8	121.4	119.7	116.0	93.1	73.1		
400	95.0	96.8	99.4	100.7	102.2	102.4	103.6	105.0	104.5	105.7	108.4	112.7	112.7	116.7	119.3	117.6	113.8	91.0	71.0		
500	92.8	94.6	97.2	98.5	100.0	100.2	101.4	102.8	102.2	103.5	106.2	110.4	110.5	114.5	117.1	115.5	111.7	88.8	68.8		
630	90.6	92.4	95.0	96.2	97.8	98.0	99.1	100.5	99.5	101.2	104.0	108.1	108.2	112.3	114.9	113.2	109.5	86.5	66.5		
800	88.3	90.1	92.7	93.9	95.5	95.7	96.8	98.2	97.5	98.9	101.7	105.7	105.9	110.0	112.6	111.0	107.2	84.1	64.1		
1000	86.0	87.8	90.3	91.5	93.1	93.3	94.4	95.8	95.0	96.5	99.3	103.2	103.5	107.6	110.3	108.6	104.9	81.7	61.7		
1250	83.6	85.3	87.9	89.1	90.7	90.9	92.0	93.3	92.5	94.0	96.8	100.6	101.0	105.2	107.8	106.2	102.5	79.0	59.0		
1600	81.1	82.8	85.3	86.5	88.2	88.4	89.4	90.7	89.8	91.4	94.2	97.9	98.5	102.6	105.3	103.6	100.0	76.2	56.2		
2000	78.5	80.2	82.7	83.8	85.6	85.7	86.8	88.0	87.1	88.7	91.5	95.2	95.8	100.0	102.7	101.0	97.4	73.3	53.3		
3150	72.5	74.1	76.5	77.8	79.6	79.8	80.7	81.9	80.8	82.6	85.4	88.8	89.6	93.6	96.3	94.5	91.1	66.3	46.3		
4000	69.0	70.6	73.1	74.3	76.2	76.3	77.3	78.3	77.2	79.0	81.8	85.1	86.0	89.9	92.5	90.7	87.4	62.2	42.2		
5000	65.1	66.6	69.1	70.4	72.3	72.4	73.3	74.3	73.2	75.0	77.8	81.0	82.0	85.8	88.4	86.4	83.2	57.9	37.9		
6300	60.8	62.3	64.7	66.1	68.0	68.1	69.0	70.0	68.8	70.6	73.5	76.6	77.6	81.4	83.9	82.0	79.8	53.4	33.4		
8000	56.9	58.3	60.7	62.0	64.1	64.1	65.0	65.9	64.6	66.6	69.4	72.5	73.6	77.6	80.2	78.2	75.0	49.8	29.8		
10000	52.6	54.0	56.4	57.5	59.7	59.8	60.6	61.4	60.1	62.1	64.9	68.0	69.4	73.5	76.1	74.2	71.0	45.9	25.9		
12500	47.8	49.3	51.7	52.6	54.9	54.9	55.7	56.5	55.2	57.3	60.1	63.2	64.8	69.0	71.6	69.9	66.5	41.9	21.9		
16000	42.5	44.1	46.5	47.2	49.6	49.6	50.4	51.2	49.9	52.0	54.8	58.0	59.7	64.2	66.8	65.2	61.7	37.6	17.6		
20000	36.7	38.4	40.7	41.2	43.7	43.6	44.5	45.4	44.1	46.3	49.1	52.2	54.1	58.9	61.5	60.0	56.4	33.2	13.2		
25000	30.3	32.1	34.4	34.7	37.1	37.1	38.1	39.1	37.7	40.0	42.7	46.0	48.0	53.1	55.8	54.4	50.6	28.9	8.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-4C AIRCRAFT	MILITARY POWER, 100% RPM																			
	RAR PRESS = 29.92 IN HG																			
ENG. J79-GE-15	SINGLE ENGINE																			
SOUND RUNUP	REL HUMID = 70 %																			
	DELTA N = 9.0 DB																			
IDENTIFICATION:																				
OMEGA 6.2																				
TEST 74-004-017																				
RUN 03																				
AIRCRAFT CODE 031																				
OPERATION CODE 01004																				
PROFILE VERSION A																				
19 DEC 75																				
PAGE 63																				
DISTANCE	ANGLE (DEGREES)																			
( FEET )	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	102.7	103.2	105.8	107.1	103.8	108.3	110.0	111.4	111.7	112.1	114.9	119.3	119.1	123.0	126.1	123.9	120.1	97.2	77.2	
250	100.6	101.1	103.7	105.0	107.7	106.7	109.3	108.9	110.0	112.8	117.1	117.0	117.0	120.9	124.0	121.8	118.0	95.2	75.2	
315	98.4	99.0	101.5	102.8	105.5	104.6	105.8	107.2	106.7	107.9	110.6	114.9	114.8	118.8	121.9	119.7	116.0	93.1	73.1	
400	96.3	96.8	99.4	100.7	103.4	102.4	103.6	105.0	104.5	105.7	108.4	112.7	112.7	116.7	119.8	117.6	113.8	91.0	71.0	
500	94.1	94.6	97.2	98.5	101.2	100.2	101.4	102.8	102.2	103.5	106.2	110.4	110.5	114.5	117.6	115.5	111.7	89.9	68.9	
630	91.9	92.4	95.0	96.2	98.9	98.0	99.1	100.5	99.9	101.2	104.0	108.1	108.2	112.3	115.4	113.2	109.5	86.5	66.5	
800	89.6	90.1	92.7	93.9	96.6	95.7	96.8	98.2	97.5	98.9	101.7	105.7	105.9	110.0	113.1	111.0	107.2	84.1	64.1	
1000	87.3	87.8	90.3	91.5	94.3	93.3	94.4	95.8	95.0	96.5	99.3	103.2	103.5	107.6	110.3	108.6	104.9	81.7	61.7	
1250	84.9	85.3	87.9	89.1	91.9	90.9	92.0	93.3	92.5	94.0	96.8	100.6	101.0	105.2	108.3	106.2	102.5	79.0	59.0	
1600	82.4	82.8	85.3	86.5	89.3	88.4	89.4	90.7	89.8	91.4	94.2	97.9	98.5	102.6	105.8	103.6	100.0	76.2	56.2	
2000	79.8	80.2	82.7	83.8	86.7	85.7	86.8	88.0	87.1	88.7	91.5	95.2	95.8	100.0	103.2	101.0	97.4	73.3	53.3	
3150	73.8	74.1	76.6	77.8	80.8	79.8	80.7	81.9	80.8	82.6	85.4	88.6	88.6	92.1	92.9	97.0	94.4	63.9	43.9	
4000	70.1	70.6	73.1	74.3	77.1	76.3	77.3	78.3	77.2	79.0	81.8	85.1	86.0	89.9	93.0	90.7	87.4	62.2	42.2	
5000	65.9	65.6	69.1	70.4	73.0	72.4	73.3	74.3	73.2	75.0	77.8	81.0	82.0	85.8	88.7	86.4	83.2	57.9	37.9	
6300	61.4	62.3	64.7	66.1	68.5	68.1	69.0	70.0	68.8	70.6	73.5	76.6	77.6	81.4	84.2	82.0	78.8	53.4	33.4	
8000	57.2	58.3	60.7	62.0	64.3	64.1	65.0	65.9	64.6	66.6	69.4	72.5	73.6	77.6	80.3	76.2	75.0	49.9	29.8	
10000	52.6	54.0	56.4	57.5	59.7	59.8	60.6	61.4	60.1	62.1	64.9	68.0	69.4	73.5	76.1	74.2	71.0	45.9	25.9	
12500	47.8	49.3	51.7	52.6	54.9	54.9	55.7	56.5	55.2	57.3	60.1	63.2	64.8	69.0	71.6	69.9	66.5	41.9	21.9	
16000	42.5	44.1	46.5	47.2	49.6	49.6	50.4	51.2	49.9	52.0	54.8	58.0	59.7	64.2	66.8	65.2	61.7	37.6	17.6	
20000	36.7	38.4	40.7	41.2	43.7	43.6	44.5	45.4	44.1	46.3	49.1	52.2	54.1	58.9	61.5	60.0	56.4	33.2	13.2	
25000	30.3	32.1	34.4	34.7	37.1	37.1	38.1	39.1	37.7	40.0	42.7	46.0	48.0	53.1	55.8	54.4	50.6	28.3	9.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE		IDENTIFICATION:	
ANGLE	NOISE LEVEL IN PND8 OR DBA	METEOROLOGY:	
		TEMP	REL HUMID
40		53 F	70 %
50		29.92 IN HG	0.0 DB
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
160			
170			
>180			

  

NOISE SOURCE/SUBJECT:	OPERATION:		METEOROLOGY:		IDENTIFICATION:	
	MILITARY POWER, 100% RPM	SINGLE ENGINE	TEMP	REL HUMID	OMEGA	TEST
F-4C AIRCRAFT			53 F	70 %	8.2	74-004-017
ENC. J79-GE-15			29.92 IN HG	0.0 DB		RUN 03
GROUND RUNUP						AIRCRAFT CODE 031
						OPERATION CODE 01004
						PROFILE VERSION A
						19 DEC 75
						PAGE J3

  

ANGLE	NOISE LEVEL IN PND8 OR DBA	P=PNLT	A=AL	T=ALT
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
>180				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ( AIRCRAFT CODE 001 )																			
F-4C AIRCRAFT ( AFTERBURNER, MAX POWER ) TEMP = 59 F ( OPERATION CODE 01003 )																			
ENG. J79-GE-15 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ( PROFILE VERSION A )																			
GROUND RUNUP ( DEFLECTED FLOW ) REL HUMID = 70 % ( 19 DEC 75 )																			
( DELTA N = 0.0 DB ) ( PAGE C1 )																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	90	91	93	94	94	94	95	97	97	99	104	104	109	113	114	108	101	95	88
63	93	93	96	96	96	96	96	98	98	99	104	107	112	117	116	108	101	95	88
80	94	95	96	96	96	96	98	98	99	101	104	110	117	119	117	107	101	94	87
100	97	100	100	100	100	100	101	102	103	105	112	116	120	123	121	108	101	95	88
125	98	101	102	102	102	102	103	104	106	107	115	118	123	125	123	108	101	95	88
160	98	101	103	103	104	104	105	106	107	108	117	120	127	127	125	106	101	94	88
200	98	101	103	104	104	103	103	106	106	108	117	119	123	124	123	104	97	91	84
250	99	100	103	102	104	103	103	108	109	111	118	120	124	124	124	101	95	88	81
315	102	101	103	105	107	107	108	109	111	112	122	123	125	127	128	103	96	89	83
400	101	100	102	104	105	106	107	109	109	110	120	122	123	125	126	104	97	91	84
500	98	101	102	103	104	105	105	108	111	112	120	121	121	122	121	101	94	87	81
630	101	102	103	105	107	107	109	111	112	113	122	122	124	125	123	103	96	89	83
800	96	98	100	102	104	104	106	107	110	111	120	119	120	121	118	100	93	87	80
1000	96	99	101	103	103	103	106	108	108	110	119	118	119	119	118	99	92	85	79
1250	94	97	98	100	102	102	105	106	108	109	118	117	118	119	116	98	91	85	78
1600	95	97	98	99	102	102	106	107	108	110	113	117	118	119	116	98	92	85	78
2000	93	96	97	98	102	101	104	107	106	109	117	116	117	118	114	98	91	84	78
2500	91	94	95	96	99	98	101	105	104	106	115	113	114	116	111	94	88	81	74
3150	90	92	94	95	97	97	101	104	104	106	113	112	113	114	111	93	87	80	73
4000	89	90	91	93	95	96	98	102	102	103	111	110	111	112	108	92	86	79	72
5000	85	87	88	89	93	93	96	100	100	101	109	109	108	110	106	89	83	76	69
6300	84	86	87	89	92	92	95	99	99	101	108	107	108	110	105	88	82	75	68
8000	80	82	84	85	89	89	91	96	96	98	105	105	106	107	103	85	78	72	65
10000	77	80	82	83	86	87	89	95	94	96	104	104	105	106	102	83	76	70	63
OVERALL	111	111	113	114	116	116	118	119	121	122	131	132	134	135	135	117	111	104	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)													
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													
NOISE SOURCE/SUBJECT:	OPERATIONS				METEOROLOGY:				IDENTIFICATION:				
	F-4C	AIRCRAFT	AFTERBURNER, MAX POWER	TEMP	TEMP	BAR PRESS =29.92 IN HG	REL HUMID = 70 %	DELTA N = 0.0 DB	OMEGA 8.2	TEST 74-004-018	RUN 01	AIRCRAFT CODE 031	
ENG. J79-GE-15	SINGLE ENGINE	DEFLECTED FLOW	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	
GROUND RUNUP	DEFLECTED FLOW	DEFLECTED FLOW	0	10	20	30	40	50	60	70	80	90	
DISTANCE													
(FEET)													
200	120.8	122.5	123.9	125.1	127.5	129.9	132.5	132.8	134.7	142.9	142.5	144.0	145.5
250	118.6	120.3	121.7	123.0	125.4	127.7	130.3	130.6	132.5	140.7	140.4	142.0	143.4
315	116.5	118.1	119.5	120.8	123.1	125.4	128.0	128.3	130.3	138.5	138.2	139.8	141.2
400	114.2	115.8	117.2	118.5	120.9	123.2	125.7	126.0	128.0	136.2	135.9	137.6	139.0
500	111.9	113.4	114.8	116.1	118.5	118.4	120.8	123.3	123.5	125.6	133.8	133.6	135.3
630	109.6	110.9	112.3	113.7	115.0	115.0	118.3	121.0	123.1	131.3	131.1	132.9	134.3
800	107.1	108.3	109.8	111.1	112.4	113.4	115.7	118.1	118.5	120.5	128.7	128.5	130.5
1000	104.5	105.8	107.0	108.5	110.7	110.7	113.0	115.2	115.8	117.8	126.0	125.9	127.9
1250	101.7	102.8	104.2	105.7	107.8	107.9	110.1	112.2	112.9	114.9	123.2	123.2	124.9
1600	98.8	99.9	101.3	102.8	104.9	105.0	107.0	109.1	109.8	111.9	120.2	120.3	122.0
2000	95.7	96.7	98.1	99.7	101.8	101.9	103.9	105.8	106.7	108.4	117.1	117.3	118.9
2500	92.3	93.3	94.7	96.3	98.4	98.5	100.6	102.4	103.3	104.9	113.8	113.8	115.6
3150	88.6	89.7	91.0	92.7	94.8	94.9	96.9	98.7	99.7	101.3	110.2	110.2	112.0
4000	84.4	85.4	86.8	88.5	90.6	90.7	92.8	94.5	95.4	97.1	106.0	106.0	107.7
5000	79.7	80.8	82.1	83.8	85.9	86.0	88.1	89.8	90.8	92.4	101.4	101.3	103.1
6300	74.8	75.8	77.1	78.9	81.0	81.1	83.2	84.8	85.9	87.5	96.5	96.5	98.2
8000	70.7	71.7	73.1	74.8	76.9	77.1	79.1	80.7	81.8	83.4	92.4	92.4	94.3
10000	66.4	67.3	68.7	70.4	72.5	72.7	74.6	76.2	77.3	78.9	88.0	88.1	90.1
12500	61.5	62.4	63.9	65.6	67.6	67.9	69.8	71.3	72.3	74.1	83.3	83.5	85.5
16000	56.2	57.0	58.7	60.2	62.2	62.5	64.3	66.0	67.3	68.8	78.0	78.4	80.5
20000	50.0	51.0	53.0	54.4	56.2	56.5	58.3	59.9	61.6	63.1	72.2	73.0	75.0
25000	42.7	44.3	46.5	47.9	49.4	49.6	51.4	53.0	55.4	56.8	66.1	67.1	68.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT 1	METEOROLOGY 1																			
	TEMP = 59 F																			
F-4C AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. J79-GE-15	DELTA N = 0.0 DB																			
	OPERATION 1																			
GROUND RUNUP	AFTERSBURNER, MAX POWER																			
	SINGLE ENGINE																			
DEFLECTED FLOW																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	122.2	122.5	123.9	125.1	127.5	128.5	131.1	133.7	132.8	134.7	142.9	142.6	145.3	146.8	145.5	125.4	118.7	112.1	105.4	
250	120.0	120.3	121.7	123.0	125.4	126.3	128.9	131.4	130.6	132.5	140.7	140.4	143.1	144.6	143.4	123.2	116.6	109.9	103.2	
315	117.8	118.1	119.5	120.8	123.1	124.1	126.7	129.2	128.3	130.3	138.5	138.2	141.0	142.4	141.3	121.0	114.4	107.7	101.0	
400	115.6	115.8	117.2	118.5	120.9	121.8	124.4	126.8	126.0	128.0	136.2	135.9	138.7	140.2	139.1	118.8	112.1	105.4	98.7	
500	113.3	113.4	114.8	116.1	118.5	119.5	122.0	124.4	123.5	125.6	133.8	133.6	136.5	137.9	136.8	116.4	109.8	103.1	96.3	
530	110.9	110.9	112.3	113.7	116.0	117.0	119.6	121.9	121.0	123.1	131.3	131.1	134.1	135.6	134.5	114.0	107.3	100.6	93.8	
800	108.5	108.3	109.8	111.1	113.4	114.4	117.3	119.2	118.5	120.5	128.7	128.5	131.6	133.1	132.1	111.5	104.8	98.0	91.1	
1000	105.9	105.6	107.0	108.5	110.7	111.7	114.3	116.4	115.8	117.8	126.0	125.9	129.0	130.5	129.5	109.0	102.3	95.4	88.4	
1250	103.1	102.8	104.2	105.7	107.8	108.9	111.3	113.4	112.9	114.9	123.2	123.2	126.1	127.5	126.6	106.2	99.5	92.6	85.6	
1600	100.2	99.9	101.3	102.8	104.9	106.0	108.3	110.2	109.8	111.8	120.2	120.3	123.2	124.7	123.8	103.4	96.6	89.6	82.6	
2000	97.1	96.7	98.1	99.7	101.8	102.9	105.2	107.0	106.7	108.4	117.1	117.3	120.1	121.7	120.9	100.3	93.4	86.4	79.4	
2500	93.7	93.3	94.7	95.3	98.4	99.6	101.8	103.5	103.3	104.9	113.8	113.8	116.8	118.2	117.2	96.4	89.4	82.5	75.5	
3150	90.0	89.7	91.0	92.7	94.8	95.9	98.2	99.9	99.7	101.3	110.2	110.2	113.1	114.5	113.0	92.3	85.3	78.4	71.4	
4000	85.5	85.4	86.8	88.5	90.6	91.5	93.8	95.4	95.4	97.1	106.0	106.0	108.7	110.1	108.3	87.8	80.9	74.0	66.9	
5000	80.5	80.8	82.1	83.8	85.9	86.6	88.8	90.5	90.8	92.4	101.4	101.3	103.8	105.2	103.4	83.0	76.1	69.1	61.9	
6300	75.3	75.6	77.1	78.9	81.0	81.5	83.7	85.3	85.9	87.5	96.5	96.5	98.7	100.0	98.3	78.0	71.1	63.9	56.7	
8000	71.0	71.7	73.1	74.8	76.9	77.3	79.3	80.9	81.8	83.4	92.4	92.5	94.6	95.8	94.2	74.0	67.0	59.5	52.2	
10000	66.4	67.3	68.7	70.4	72.5	72.7	74.6	76.2	77.3	78.9	88.0	88.1	90.1	91.4	89.6	69.8	62.6	55.1	47.1	
12500	61.5	62.4	63.9	65.6	67.6	67.9	69.8	71.3	72.5	74.1	83.3	83.5	85.5	86.8	85.4	65.2	57.7	50.1	41.2	
16000	56.2	57.0	58.7	60.2	62.2	62.5	64.3	66.0	67.3	68.8	78.0	78.4	80.5	81.9	80.5	60.0	52.3	43.7	33.7	
20000	50.0	51.0	53.0	54.4	56.2	56.5	58.3	59.9	61.0	63.1	72.2	73.0	75.0	76.4	75.6	54.3	45.9	36.7	25.4	
25000	42.7	44.3	46.5	47.9	49.4	49.6	51.4	53.0	55.4	56.8	66.1	67.1	68.9	70.4	70.3	48.3	39.2	28.6	14.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 4-WEIGHTED OVERALL SOUND LEVEL (D9A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:					METEOROLOGY:					IDENTIFICATION:								
	F-4C	AIRCRAFT	AFTERBURNER, MAX POWER	SINGLE ENGINE	DEFLECTED FLOW	TEMP	BAR PRESS	REL HUMID	DELTA N	59 F	=29.92 IN HG	=70 %	0.0 DB	OMEGA	8.2				
ENG. J79-GE-15	GROUND RUNUP													TEST 74-004-018					
														RUN 01					
														AIRCRAFT CODE 031					
														OPERATION CODE 01003					
														PROFILE VERSION A					
														19 DEC 75					
														PAGE F1					
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	120	130	140	150	160	170	180	
200	158.4	113.7	111.3	112.9	115.2	115.2	117.5	119.5	120.5	122.2	130.7	130.4	131.6	132.8	131.3	111.6	104.9	98.2	91.6
250	106.3	107.8	109.2	110.8	113.1	113.1	115.4	117.4	118.4	120.0	126.6	129.3	129.5	130.7	129.2	109.5	102.8	96.1	89.5
315	104.2	105.7	107.1	108.7	110.9	110.9	113.3	115.2	116.2	117.9	126.5	126.2	127.4	128.5	127.1	107.4	100.7	94.0	87.4
400	102.1	103.6	104.9	106.5	108.8	108.8	111.1	113.0	114.0	115.7	124.3	124.0	125.2	126.4	125.0	105.2	98.5	91.9	85.2
500	99.9	101.4	102.7	104.3	106.6	106.6	108.9	110.7	111.8	113.5	122.1	121.8	123.0	124.2	122.9	103.0	96.3	89.7	83.0
630	97.7	99.1	100.5	102.1	104.3	104.3	106.6	108.4	109.5	111.2	119.8	119.6	120.8	121.9	120.7	100.7	94.1	87.4	80.7
800	95.4	96.8	98.2	99.8	102.0	102.0	104.3	106.1	107.2	108.9	117.5	117.3	118.5	119.7	118.4	98.4	91.7	85.1	78.4
1000	93.0	94.4	95.8	97.5	99.6	99.7	101.9	103.6	104.8	106.5	115.1	114.9	116.1	117.3	116.1	96.0	89.3	82.7	76.0
1250	90.6	91.9	93.3	95.0	97.1	97.2	99.4	101.1	102.3	104.0	112.7	112.4	113.6	114.8	113.6	93.5	86.8	80.2	73.5
1600	88.0	89.3	90.7	92.4	94.6	94.6	96.8	98.5	99.8	101.4	110.1	109.9	111.0	112.2	111.1	90.9	84.2	77.6	70.9
2000	85.4	86.7	88.1	89.8	91.9	92.0	94.1	95.8	97.1	98.7	107.4	107.2	108.3	109.5	108.4	88.2	81.5	74.9	68.2
2500	82.4	83.8	85.1	86.9	89.0	89.1	91.2	92.8	94.2	95.7	104.5	104.3	105.4	106.5	105.3	85.2	78.5	71.8	65.2
3150	79.3	80.6	81.9	83.7	85.8	85.9	88.0	89.6	91.0	92.6	101.3	101.1	102.1	103.3	101.9	81.9	75.2	68.6	61.9
4000	75.6	77.0	78.3	80.1	82.3	82.3	84.5	86.0	87.5	89.0	97.7	97.5	98.5	99.6	98.1	78.2	71.6	64.9	58.2
5000	71.5	72.9	74.2	76.0	78.2	78.3	80.4	81.9	83.5	85.0	93.7	93.4	94.4	95.4	93.9	74.1	67.4	60.8	54.1
6300	67.1	68.6	69.9	71.7	73.9	73.9	76.0	77.5	79.1	80.6	89.3	89.0	90.0	91.0	89.4	69.7	63.0	56.4	49.7
8000	63.3	64.6	66.0	67.8	69.9	70.0	72.0	73.5	75.1	76.5	85.3	85.1	86.2	87.2	85.7	65.8	59.1	52.4	45.8
10000	59.1	60.4	61.8	63.6	65.6	65.7	67.6	69.2	70.8	72.2	81.0	80.9	82.0	83.0	81.7	61.6	54.9	48.2	41.6
12500	54.6	55.7	57.2	58.9	60.9	61.0	62.8	64.4	66.1	67.5	76.3	76.3	77.4	78.5	77.3	57.0	50.3	43.7	37.0
16000	49.6	50.6	52.2	53.9	55.7	55.9	57.6	59.2	60.9	62.3	71.1	71.3	72.4	73.6	72.5	52.0	45.4	38.7	32.0
20000	44.1	45.1	46.6	48.3	50.0	50.2	51.8	53.5	55.2	56.5	65.4	65.7	66.9	68.1	67.3	46.7	40.0	33.4	26.7
25000	38.1	38.9	40.6	42.1	43.7	43.9	45.4	47.1	48.8	50.2	59.1	59.6	61.0	62.2	61.6	41.0	34.4	27.7	21.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION:			AFTERBURNER, MAX POWER			METEOROLOGY:			IDENTIFICATION:									
	F-4C	AIACRAFT	ENG. J79-GE-15	TEMP	BAR PRESS	REL HUMID	TEMP	BAR PRESS	REL HUMID	OMEGA	TEST	RUN							
GROUND RUNUP	DEFLECTED FLOW	DEFLECTED FLOW	59 F	29.92 IN HG	70 %	59 F	29.92 IN HG	70 %	8.2	74-004-01A	01	01							
			DELTA N = 0.0 DB								AIRCRAFT CODE	OPERATION CODE	PROFILE VERSION	PAGE					
											031	01003	A	G1					
( DISTANCE	ANGLE (DEGREES)																		
( FEET)	0	10	20	30	40	50	60	70	80	90	100	120	130	140	150	160	170	180	
200	109.8	110.0	111.3	112.9	115.2	118.2	118.8	120.7	120.5	122.2	130.7	139.4	132.7	134.0	132.6	111.6	104.9	98.2	91.6
250	107.7	107.8	109.2	110.8	113.1	114.1	116.7	118.5	118.4	120.0	128.6	128.3	130.6	131.9	130.5	109.5	102.8	96.1	89.5
315	105.6	105.7	107.1	108.7	110.9	111.9	114.5	116.4	116.2	117.9	126.5	126.2	128.5	129.8	128.4	107.4	100.7	94.0	87.4
400	103.5	103.6	104.9	106.5	109.8	109.8	112.3	114.2	114.0	115.7	124.3	124.0	126.4	127.6	126.3	105.2	98.5	91.9	85.2
500	101.3	101.4	102.7	104.3	106.6	107.6	110.1	111.9	111.8	113.5	122.1	121.8	124.2	125.4	124.1	103.0	96.3	89.7	83.0
630	99.0	99.1	100.5	102.1	104.3	105.3	107.9	109.6	109.5	111.2	119.8	119.6	121.9	123.2	121.9	100.7	94.1	87.4	80.7
800	96.6	96.8	98.2	99.8	102.0	103.0	105.5	107.2	107.2	108.9	117.5	117.3	119.6	120.9	119.7	98.4	91.7	85.1	78.4
1000	94.4	94.4	95.8	97.5	99.6	100.7	103.1	104.8	104.8	106.5	115.1	114.9	117.3	118.5	117.4	96.0	89.3	82.7	76.0
1250	92.0	91.9	93.3	95.0	97.1	98.2	100.7	102.3	102.3	104.0	112.7	112.4	114.8	116.0	114.9	93.5	86.8	80.2	73.5
1600	89.4	89.3	90.7	92.4	94.6	95.6	98.1	99.6	99.8	101.4	110.1	109.9	112.2	113.4	112.3	90.9	84.2	77.6	70.9
2000	86.8	86.7	88.1	89.8	91.9	93.0	95.4	96.9	97.1	98.7	107.4	107.2	109.5	110.8	109.7	88.2	81.5	74.9	68.2
2500	83.8	83.8	85.1	86.9	89.0	90.1	92.4	94.0	94.2	95.7	104.5	104.3	106.5	107.8	106.5	85.2	78.5	71.8	65.2
3150	80.6	80.6	81.9	83.7	85.8	86.9	89.3	90.8	91.0	92.6	101.3	101.1	103.3	104.5	103.2	81.9	75.2	68.6	61.9
4000	76.7	77.0	78.3	80.1	82.3	83.1	85.5	86.9	87.5	89.0	97.7	97.5	99.5	100.6	99.1	78.2	71.6	64.9	58.2
5000	72.3	72.9	74.2	76.0	78.2	78.9	81.1	82.6	83.5	85.0	93.7	93.4	95.1	96.2	94.6	74.1	67.4	60.9	54.1
6300	67.7	68.6	69.9	71.7	73.9	74.3	76.5	78.0	79.1	80.6	89.3	89.0	90.5	91.5	89.9	69.7	63.0	56.4	49.7
8000	63.6	64.6	66.0	67.8	69.9	70.2	72.2	73.7	75.1	76.6	85.3	85.1	86.4	87.4	85.9	65.8	59.1	52.4	45.8
10000	59.1	60.4	61.8	63.6	65.6	65.7	67.8	69.2	70.8	72.2	81.0	80.9	82.0	83.0	81.7	61.6	54.9	48.2	41.6
12500	54.6	55.7	57.2	59.9	63.0	63.0	62.8	64.4	66.1	67.5	76.3	76.3	77.4	78.5	77.3	57.0	50.3	43.7	37.0
16000	49.6	50.6	52.2	53.9	55.7	55.9	57.6	59.2	60.9	62.3	71.1	71.1	72.4	73.6	72.5	52.0	45.4	38.7	32.0
20000	44.1	45.1	46.6	48.3	50.0	50.2	51.8	53.5	55.2	56.5	65.3	65.3	66.9	68.1	67.3	46.7	40.0	33.4	26.7
25000	38.1	38.9	40.6	42.1	43.7	43.9	45.4	47.1	48.8	50.2	59.1	59.6	61.0	62.2	61.6	41.0	34.4	27.7	21.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE		IDENTIFICATION:	
ANGLE	NOISE LEVEL IN P.dB OR DBA	METEOROLOGY:	
		TEMP	REL HUMID
0		59 F	70 %
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
160			
170			
180			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.





FREQUENCY	30	40	50	60	70	80	90	100	MEAN	SD
50										
63						X			80.0	
80						X			79.3	
100							X		82.7	
125								X	91.7	
160								X	97.7	
200								X	100.3	
250								X	96.0	
315								X	98.0	
400								X	101.0	
500								X	99.5	
630								X	99.8	
800								X	100.7	
1000								X	99.3	
1250								X	98.7	
1600								X	97.3	
2000								X	95.9	
2500								X	95.5	
3150								X	94.3	
4000								X	93.5	
5000								X	92.8	
6300								X	89.9	
8000								X	89.6	
10000								X	89.0	
								X	88.4	

F-5A,B AFTERBURNER POWER 101 % RPM  
 AIRSPEED = 350 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1300 FEET REL HUMID = 70 %  
 NO. OF RECORDS = 1 IDENT: 6.6-509-101-170276

PNLT = 121.0 PND9  
 PNL = 120.4 PND9  
 ALT = 108.5 DBA  
 AL = 107.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																										
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																										
AIRCRAFT:		METEOROLOGY:																										
( OPERATION:		A/C CODE: 509																										
( AFTERBURNER POWER		OPS CODE: 101																										
( 101 % RPM		PROFILE VER: A																										
( AIRSPEED = 350 KNOTS		17 FEB 76																										
( DELTA N = J.0 DB		PAGE H1																										
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																										
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	94	93	97	106	112	115	110	112	115	114	114	116	114	114	113	112	112	112	112	112	114	112	114	112	115	120	127	
250	92	91	95	104	110	112	108	110	113	112	112	113	112	111	110	110	110	110	110	110	111	109	111	109	112	117	123	
315	90	89	93	102	108	110	106	111	110	110	111	110	110	109	108	108	108	108	108	108	109	108	109	107	109	113	119	
400	88	87	91	100	106	108	104	106	109	108	108	109	108	107	106	106	106	106	105	105	106	106	104	106	106	109	115	
500	86	85	89	98	104	106	102	104	107	106	106	107	106	106	104	103	103	103	103	103	103	103	101	103	101	103	105	110
630	84	83	87	96	102	104	100	102	105	104	104	105	104	103	102	101	101	101	100	100	100	98	99	99	101	104		
800	82	81	85	94	100	102	98	100	103	102	102	102	103	102	101	100	98	98	97	97	97	97	94	94	95	95	97	
1000	80	79	83	92	98	100	96	98	101	100	100	100	101	99	99	97	96	96	94	94	93	90	90	89	89	88		
1250	78	77	81	90	96	98	94	96	99	97	97	98	98	97	96	95	93	93	91	90	89	85	84	82	79	79		
1600	76	75	79	88	94	96	92	94	97	95	95	96	95	94	92	90	90	88	86	84	80	77	73	67	67	67		
2000	74	73	77	86	91	94	90	92	94	93	93	94	92	91	89	87	86	84	81	78	74	69	62	52	52	52		
2500	72	71	75	83	89	92	88	89	92	91	91	91	89	88	86	84	82	79	76	72	67	60	50	34	34	34		
3150	70	69	72	81	87	90	85	87	90	88	88	88	86	85	83	80	78	75	70	64	58	49	34	13	13	13		
4000	68	67	70	79	85	88	83	85	87	86	85	86	83	82	79	76	73	69	63	55	48	35	15	15	15	15		
5000	66	65	68	77	83	85	81	82	85	83	83	83	80	78	75	71	68	62	55	45	35	18	18	18	18	18		
6300	64	63	66	75	81	83	78	80	82	80	79	79	76	74	70	66	61	54	45	31	20	20	20	20	20	20		
8000	61	61	64	73	78	81	76	77	80	77	76	76	72	69	65	59	54	45	33	15	2	2	2	2	2	2		
10000	59	58	62	70	76	78	73	74	76	74	72	71	68	64	59	52	45	34	19	19	19	19	19	19	19	19		
12500	57	56	59	68	73	75	70	71	73	70	68	67	62	58	51	43	34	20	1	1	1	1	1	1	1	1		
16000	55	54	57	65	71	72	67	68	70	66	64	61	56	50	43	32	21	3	3	3	3	3	3	3	3	3		
20000	53	51	54	63	68	69	64	64	65	61	58	55	48	42	32	19	5	5	5	5	5	5	5	5	5	5		
25000	50	49	52	60	65	66	60	60	61	56	52	48	40	31	19	3	3	3	3	3	3	3	3	3	3	3		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DB)	ALT** (ORA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
( F-5A,B	128.0	128.5	141.5	142.1	124.9	125.7	129.4	OMEGA	6.6
( 250	125.1	125.7	138.7	139.3	123.0	123.8	127.5	A/C CODE: 509	
( 315	122.2	122.8	135.7	136.3	121.1	121.9	125.5	OPS CODE: 101	
( 400	119.2	119.8	132.5	133.1	119.1	119.9	123.3	PROFILE VER: A	
( 500	116.3	116.8	129.5	130.1	117.1	117.9	121.4	17 FEB 76	
( 630	113.4	114.0	126.6	127.2	115.3	116.1	119.4	PAGE II	
( 800	110.6	111.2	123.6	124.1	113.5	114.3	117.4		
( 1000	107.9	108.5	120.4	121.0	111.8	112.6	115.3		
( 1250	105.2	105.8	117.2	117.8	110.1	110.9	113.1		
( 1600	102.5	103.1	113.9	114.5	108.4	109.2	110.8		
( 2000	99.8	100.4	110.5	111.1	106.7	107.5	108.4		
( 2500	97.0	97.5	107.3	107.9	104.8	105.6	106.2		
( 3150	94.0	94.6	104.1	104.7	102.9	103.7	104.0		
( 4000	91.0	91.4	100.9	101.3	100.9	101.5	101.6		
( 5000	87.8	88.1	97.6	97.9	98.7	99.2	99.1		
( 6300	84.4	84.7	94.1	94.4	96.3	96.6	96.5		
( 8000	80.9	81.0	90.6	90.7	93.8	94.0	93.8		
( 10000	77.2	77.2	86.9	86.9	91.1	91.1	90.9		
( 12500	73.3	73.3	82.9	82.9	88.1	88.1	88.0		
( 16000	69.1	69.1	78.7	78.7	85.0	85.0	84.8		
( 20000	64.7	64.7	74.1	74.1	81.6	81.6	81.2		
( 25000	60.1	60.1	69.5	69.5	78.0	78.0	77.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(
	F-5A,B								
	101 % RPM								
250	(	(	(	(	(	(	(	(	(
	AIR SPEED = 350 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F REL HUMID = 70 %								
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
	IDENT: 6.6-509-101-170276-A								
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(
D 1250	(	(	(	(	(	(	(	(	(
I 1600	(	(	(	(	(	(	(	(	(
S 2000	(	(	(	(	(	(	(	(	(
A 2500	(	(	(	(	(	(	(	(	(
C 3150	(	(	(	(	(	(	(	(	(
E 4000	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
E 8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

```

200 (-----ST-E)
    ( F-5A,B AFTERBURNER POWER
250 ( . 101 % RPM . . . . . ST E .
    ( AIRSPEED = 350 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST E .
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 1 . . . . . ST E .
    ( IDENT: 6.6-509-101-170276-A
500 ( . . . . . ST.E . . . . .
    (
630 ( . . . . . ST E.
    (
800 ( . . . . . ST E .
    (
1000 ( . . . . . ST.E . . . . .
    (
1250 ( . . . . . ST E .
    (
1600 ( . . . . . ST.E
    (
2000 ( . . . . . XE . . . . .
    (
2500 ( . . . . . SX . . . . .
    (
3150 ( . . . . . SX . . . . .
    (
4000 ( . . . . . SX . . . . .
    (
5000 ( . . . . . X . . . . .
    (
6300 ( . . . . . SX . . . . .
    (
8000 ( . . . . . X . . . . .
    (
10000 ( . . . . . X . . . . .
    (
12500 ( . . . . . X . . . . . AIR TO GROUND
    ( . . . . . E = EPNL
    ( . . . . . T = SELT
    ( . . . . . S = SEL
20000 ( . . . . . EX . . . . .
    (
25000 (-----X-----)
    ( 50 60 70 80 90 100 110 120 130
    ( NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ) METEOROLOGY: ) A/C CODE: 509  
 ( OPERATION: ) ) OPS CODE: 101  
 ( AFTERBURNER POWER ) TEMP = 59 F )  
 ( 101 % RPM ) REL HUMID = 70 % ) PROFILE VER: A  
 ( ) ) 17 FEB 76 )  
 ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) PAGE L1

SLANT DISTANCE (FEET)

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	89	88	92	101	107	110	105	107	110	109	109	111	109	109	108	107	107	107	107	107	109	107	110	115	122
250	87	86	90	99	105	107	103	105	108	107	107	108	107	107	106	105	105	105	105	105	106	104	107	112	118
315	85	84	88	97	103	105	101	103	106	105	105	106	105	105	104	103	103	102	103	102	104	102	104	108	114
400	83	82	86	95	101	103	99	101	104	103	103	104	103	103	102	101	101	100	100	100	101	99	101	104	110
500	81	80	84	93	99	101	97	99	102	101	101	102	101	101	99	98	98	98	98	98	98	96	98	100	105
630	79	78	82	91	96	98	94	96	100	99	99	100	99	98	97	96	96	95	95	95	95	93	94	96	99
800	77	76	80	88	93	95	91	94	98	97	97	98	97	96	95	93	93	92	92	92	92	89	90	90	92
1000	75	74	78	85	90	93	88	91	96	95	95	96	94	94	92	91	91	89	89	88	85	85	84	83	83
1250	73	72	75	82	87	89	85	88	93	92	93	93	92	91	90	88	88	86	85	84	80	79	77	74	74
1600	71	69	71	79	84	86	82	84	90	90	90	91	90	89	87	85	85	83	81	79	75	72	68	62	62
2000	68	66	68	75	80	82	78	80	86	88	88	89	87	86	84	82	81	79	76	73	69	64	57	47	47
2500	64	62	63	71	76	78	73	76	82	84	85	86	84	83	81	79	77	74	71	67	62	55	45	29	8
3150	60	57	59	66	71	73	68	71	78	80	82	83	81	80	78	75	73	70	65	59	53	44	29	8	
4000	56	52	53	60	65	67	63	65	72	75	78	80	78	77	74	71	68	64	58	50	43	30	10	10	
5000	51	47	49	56	60	62	58	60	66	70	74	76	75	73	70	66	63	57	50	40	30	13	13	13	
6300	46	43	44	51	56	57	53	55	60	64	69	71	70	69	65	61	56	49	40	26	15	15	15	15	
8000	43	41	42	49	53	55	50	52	58	61	66	68	66	64	60	54	49	40	28	10	10	10	10	10	
10000	41	38	40	46	51	52	48	49	54	58	62	63	62	59	54	47	40	29	14	14	14	14	14	14	
12500	39	36	37	44	48	50	45	46	51	54	58	59	56	53	46	38	29	15	15	15	15	15	15	15	
16000	37	34	35	41	46	47	42	43	48	50	54	53	50	45	38	27	16	16	16	16	16	16	16	16	
20000	35	31	32	39	43	44	38	39	43	45	48	47	42	37	27	14	14	14	14	14	14	14	14	14	
25000	32	29	30	36	40	41	35	35	39	40	42	40	34	26	14	14	14	14	14	14	14	14	14	14	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: A/C CODE: 509  
 ( AFTERBURNER POWER ) TEMP = 59 F OPS CODE: 101  
 ( 101 % RPM ) REL HUMID = 70 % PROFILE VER: A  
 ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB 17 FEB 76  
 ( ) PAGE M1  
 ) OMEGA 6.6

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	123.0	123.5	136.5	137.1	119.9	120.6	124.3
250	120.1	120.7	133.7	134.2	119.0	118.8	122.5
315	117.2	117.7	130.7	131.2	116.1	116.8	120.5
400	114.2	114.7	127.5	128.0	114.1	114.8	118.3
500	111.3	111.8	124.4	125.0	112.1	112.9	116.3
630	108.4	108.3	121.5	122.0	110.3	111.0	114.3
800	105.6	106.1	118.4	118.9	108.5	109.2	112.2
1000	102.9	103.4	115.2	115.7	106.7	107.5	110.0
1250	100.1	100.6	111.8	112.3	105.0	105.8	107.6
1600	97.3	97.9	108.2	108.8	103.2	104.0	105.0
2000	94.5	95.0	104.5	105.0	101.4	102.1	102.3
2500	91.4	91.9	100.8	101.3	99.3	100.0	99.6
3150	88.1	88.6	96.8	97.4	97.0	97.7	96.7
4000	84.4	84.8	92.4	92.8	94.3	94.9	93.0
5000	80.2	80.5	87.5	87.8	91.1	91.5	89.0
6300	75.7	75.9	82.3	82.5	87.6	87.9	84.7
8000	71.4	71.6	77.9	78.0	84.3	84.5	81.1
10000	66.8	66.8	73.2	73.2	80.7	80.7	77.3
12500	61.8	61.8	68.1	68.1	76.7	76.7	73.2
16000	56.3	56.3	62.5	62.5	72.2	72.2	68.6
20000	50.2	50.2	56.6	56.6	67.1	67.1	63.7
25000	43.6	43.6	49.8	49.8	61.5	61.5	57.9

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 ( F-5A,B AFTERBURNER POWER ) A+ )
250 ( 101 % RPM ) A+ )
315 ( AIRSPEED = 350 KNOTS ) )
315 ( TEMP = 59 F REL HUMID = 70 % ) )
400 ( DELTA N = 0.0 DB ) )
500 ( NO. OF RECORDS: 1 ) )
500 ( IDENT: 6.6-509-101-170276-A ) )
S ( ) )
L ( ) )
A ( ) )
N ( ) )
T ( ) )
D ( ) )
I ( ) )
S ( ) )
T ( ) )
A ( ) )
N ( ) )
C ( ) )
E ( ) )
I ( ) )
N ( ) )
F ( ) )
E ( ) )
T ( ) )
10000 ( ) )
12500 ( ) )
16000 ( ) )
20000 ( ) )
25000 ( ) )

```

NOISE LEVEL IN DB

60 70 80 90 100 110 120 130 140



	50	60	70	80	90	100	110	120	130	
200	F-5A,B AFTERBURNER POWER									
250	101 % RPM									
315	AIRSPEED = 350 KNOTS									
400	TEMP = 59 F REL HUMID = 70 %									
500	DELTA N = 0.0 DB									
630	NO. OF RECORDS: 1									
800	IDENT: 6.6-509-101-170276-A									
1000										
1250										
1600										
2000										
2500										
3150										
4000										
5000										
6300										
8000										
10000										
12500										
16000										
20000										
25000										

	30	40	50	60	70	80	90	100	MEAN	SD
F	.	.	.	.	.	.	.	.	63.7	
R	.	.	.	.	.	.	.	.	65.2	
E	.	.	.	.	.	.	.	.	66.6	
Q	.	.	.	.	.	.	.	.	73.3	
J	.	.	.	.	.	.	.	.	79.5	
E	.	.	.	.	.	.	.	.	81.2	
Q	.	.	.	.	.	.	.	.	76.9	
J	.	.	.	.	.	.	.	.	81.9	
E	.	.	.	.	.	.	.	.	83.6	
N	.	.	.	.	.	.	.	.	84.6	
C	.	.	.	.	.	.	.	.	84.7	
Y	.	.	.	.	.	.	.	.	86.7	
I	.	.	.	.	.	.	.	.	87.8	
N	.	.	.	.	.	.	.	.	90.6	
H	.	.	.	.	.	.	.	.	93.4	
Z	.	.	.	.	.	.	.	.	93.1	
	.	.	.	.	.	.	.	.	91.8	
	.	.	.	.	.	.	.	.	90.9	
	.	.	.	.	.	.	.	.	89.1	
	.	.	.	.	.	.	.	.	87.2	
	.	.	.	.	.	.	.	.	82.1	
	.	.	.	.	.	.	.	.	78.9	
	.	.	.	.	.	.	.	.	76.2	
	.	.	.	.	.	.	.	.	74.3	

F-5A,B TAKEOFF POWER 101 % RPM  
 AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 113.5 PND9  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 113.0 PND9  
 NO. OF RECORDS = 1 IDENT: 6.6-509-103-170276 ALT = 101.7 DBA  
 AL = 101.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*													IDENTIFICATION:												
AIR-TO-GROUND PROPAGATION													OMEGA 6.6												
AIRCRAFT:													A/C CODE: 509												
( OPERATION: )													OPS CODE: 103												
( TAKEOFF POWER )													PROFILE VER: A												
( 101 % RPM )													17 FEB 76												
( AIRSPEED = 300 KNOTS )													PAGE H2												
( DELTA N = 0.0 DB )																									
METEOROLOGY:																									
TEMP = 59 F																									
REL HUMID = 70 %																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	78	79	81	87	94	95	91	96	98	99	99	101	103	106	109	109	108	108	107	107	107	103	103	105	110
250	76	77	79	85	92	93	89	94	96	97	97	99	101	104	107	107	106	106	106	105	105	101	101	102	107
315	74	75	77	83	90	91	87	92	94	95	95	97	99	102	105	105	104	104	103	102	98	98	99	99	103
400	72	73	75	81	88	89	85	90	92	93	93	95	97	99	103	103	102	101	100	100	96	95	95	95	99
500	70	71	73	79	86	87	83	88	90	91	91	93	94	97	100	100	99	99	98	97	93	91	91	91	94
630	68	69	71	77	84	85	81	86	88	89	89	91	92	95	98	98	97	96	95	94	89	88	87	88	88
800	66	67	69	75	82	83	79	84	86	87	87	89	90	93	96	96	94	94	92	91	86	84	84	82	82
1000	64	65	67	73	80	81	77	82	84	85	85	87	88	91	93	93	92	91	89	87	82	79	76	74	74
1250	62	63	65	71	77	79	75	80	81	82	83	84	85	88	91	90	89	88	86	83	78	74	69	65	65
1600	60	61	63	69	75	77	73	78	79	80	80	82	83	86	88	88	86	85	82	79	73	67	61	54	54
2000	58	59	60	67	73	75	71	76	77	78	78	80	81	83	86	85	83	81	78	74	67	60	52	41	41
2500	56	57	58	65	71	73	68	73	75	76	76	77	78	80	83	81	79	77	73	68	60	52	40	25	25
3150	54	55	56	63	69	71	66	71	73	73	73	75	75	77	79	78	75	72	67	61	53	41	26	6	6
4000	51	53	54	61	67	69	64	69	71	71	71	72	72	74	76	74	71	67	61	52	43	29	9	9	9
5000	49	51	52	59	65	66	62	66	68	68	68	69	69	71	72	70	66	61	53	43	32	14	14	14	14
6300	47	49	50	57	63	64	59	64	65	66	65	66	66	67	68	64	60	54	44	31	18	18	18	18	18
8000	45	47	48	54	60	62	57	61	62	63	62	62	62	62	62	58	53	45	33	16	2	2	2	2	2
10000	43	44	46	52	58	59	54	59	60	59	58	58	57	57	57	52	44	35	20						
12500	41	42	43	50	55	57	52	56	56	56	54	54	52	52	50	43	34	22	4						
16000	39	40	41	47	53	54	49	53	53	52	50	49	46	45	42	34	22	7							
20000	36	37	39	45	50	51	45	49	49	48	45	43	40	37	32	22	9								
25000	34	35	36	42	47	48	42	45	45	43	39	36	32	27	21	7									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
	118.5	119.0	131.0	131.5	119.4	120.6	122.2	OMEGA 6.6	
	116.2	116.7	128.7	129.2	118.1	119.3	120.9	A/C CODE: 509	
	113.8	114.3	126.3	126.8	116.7	117.9	119.5	OPS CODE: 103	
	111.4	111.9	123.9	124.4	115.3	116.5	118.0	PROFILE VER: A	
	108.9	109.4	121.3	121.8	113.9	115.1	116.4	17 FER 76	
	106.4	106.9	118.7	119.2	112.4	113.6	114.8	PAGE 12	
	103.8	104.3	115.9	116.4	110.8	112.0	113.0		
	101.2	101.7	113.0	113.5	109.1	110.3	111.1		
	98.4	98.9	109.9	110.4	107.3	108.5	109.0		
	95.5	96.0	106.6	107.1	105.4	106.6	106.7		
	92.4	92.9	103.0	103.5	103.4	104.6	104.2		
	89.2	89.7	99.5	100.0	101.1	102.3	101.6		
	85.8	86.3	95.8	96.3	93.7	99.9	98.9		
	82.6	82.6	91.8	92.2	96.1	97.1	95.7		
	78.3	78.6	87.4	87.7	93.2	93.9	92.1		
	74.1	74.3	82.8	83.0	90.1	90.5	88.2		
	69.7	69.8	77.7	77.8	86.6	86.9	83.9		
	65.0	65.0	72.8	72.8	83.0	83.0	79.7		
	60.1	60.1	68.2	68.2	79.1	79.1	76.1		
	55.2	55.2	63.4	63.4	75.1	75.1	72.3		
	50.1	50.1	58.1	58.1	71.0	71.0	68.0		
	44.9	44.9	52.5	52.5	66.9	66.9	63.4		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	60	70	80	90	100	110	120	130	140
200 (									
( F-5A,B TAKEOFF POWER									
( 250 (						A+	.	X.	
( 101 % RPM									
( 315 (							X	.	*P
( AIRSPEED = 300 KNOTS									
( TEMP = 59 F REL HUMID = 70 %									
( DELTA N = 0.0 DB									
( 400 (						A+	.	X	.
( NO. OF RECORDS: 1									
( IDENT: 6.6-509-103-170276-A									
( 500 (						X.	.	.	*P
(									
( S 630 (						A+	.	X.	.
(									
( L 800 (						X	.	X.	.
(									
( N 1000 (									
(						A+	.	X.	.
( D 1250 (						A+	.	X.	.
(									
( I 1600 (						A+	.	X.	.
(									
( S 2000 (									
(						A+	.	.	*P
( N 2500 (						A+	.	.	.
(									
( E 3150 (						X	.	X.	.
(									
( I 4000 (						A+	.	X.	.
(									
( N 5000 (									
(						A+	.	.	*P
( E 6300 (						X	.	X.	.
(									
( T 8000 (						X	.	X.	.
(									
( 10000 (						X.	.	X.	.
(									
( 12500 (						X	.	X.	.
(									
( 16000 (						X	.	X.	.
(									
( 25000 (									
(									
( 25000 (									

AIR TO GROUND  
 P = PNLT  
 \* = PNL  
 † = ALT  
 A = AL

	TAKEOFF POWER		S-TE															
200 (	(	F-5A,B	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
250 (	(	101 % RPM	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
315 (	(	AIRSPEED = 300 KNOTS	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
400 (	(	TEMP = 59 F	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
500 (	(	REL HUMID = 70 %	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
S	630 (	DELTA N = 0.0 DB	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
L	800 (	NO. OF RECORDS: 1	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
A	1000 (	IDENf: 6.6-509-103-270275-A	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
N	1250 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
T	1600 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
D	2000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
I	2500 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
S	3150 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
T	4000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
A	5000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
N	6300 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
C	8000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
E	10000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
I	12500 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
N	16000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
I	20000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(
N	25000 (	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(

50 60 70 80 90 100 110 120 130

NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		METEOROLOGY:																								
OPERATION:		A/C CODE: 509																								
TAKEOFF POWER		OPS CODE: 103																								
101 % RPM		PROFILE VER: A																								
AIRSPEED = 300 KNOTS		17 FEB 76																								
DELTA N = 0.0 DB		PAGE L2																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	73	74	76	82	89	90	86	91	93	94	94	96	98	98	101	104	104	103	103	102	102	98	98	100	105	
250	71	72	74	80	87	88	84	89	91	92	92	94	96	96	99	102	102	101	101	100	100	96	96	95	97	102
315	69	70	72	78	85	86	82	87	89	90	90	92	94	94	97	100	100	99	99	98	97	93	93	94	98	
400	67	68	70	76	83	84	80	85	87	88	88	90	92	94	98	98	98	97	96	95	95	91	90	90	94	
500	65	66	68	74	80	82	77	83	85	86	86	88	89	92	95	95	94	94	94	93	92	88	86	86	89	
630	63	64	66	72	78	79	75	80	83	84	84	86	87	90	93	93	92	91	90	89	89	84	83	82	83	
800	61	62	64	70	75	76	72	78	81	82	82	84	85	88	91	91	89	89	87	86	86	81	79	77	77	
1000	59	60	62	67	72	73	69	75	78	80	80	82	83	86	88	88	87	86	84	82	82	77	74	71	69	
1250	57	58	59	64	69	70	66	71	75	77	78	79	80	83	86	85	84	83	81	80	77	74	69	64	60	
1600	55	55	55	60	66	67	62	68	72	75	75	77	78	81	83	83	81	80	77	74	68	62	56	49		
2000	52	51	52	57	62	63	59	64	69	73	73	75	76	78	81	80	78	76	73	69	62	55	47	36		
2500	48	47	47	52	58	59	54	60	65	69	70	72	73	75	78	76	74	72	68	63	55	47	35	20		
3150	44	43	43	48	53	54	49	55	60	65	67	70	70	72	74	73	70	67	62	56	48	36	21	1		
4000	40	38	37	42	47	48	44	49	55	60	63	66	67	69	71	69	66	62	56	47	38	24	4			
5000	34	33	33	37	42	43	39	44	49	55	59	62	64	66	67	65	61	56	48	38	27	9				
6300	29	29	28	33	38	38	34	39	43	50	55	58	60	62	63	59	55	49	39	26	13					
8000	27	27	26	30	35	36	31	36	40	47	52	54	56	57	58	53	48	40	28	11						
10000	25	24	24	28	33	34	29	34	38	43	48	50	51	52	52	47	39	30	15							
12500	23	22	21	26	30	31	26	31	34	40	44	46	46	47	45	38	29	17								
16000	21	20	19	23	28	28	23	28	31	36	40	41	40	40	37	29	17	2								
20000	18	17	17	21	25	25	20	24	27	32	35	35	34	32	27	17	3									
25000	16	15	14	18	22	22	16	20	23	27	29	28	26	22	16	2										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-5A,B	113.5	113.5	126.0	126.0	114.4	115.1	116.7	OMEGA 6.6	
	111.2	111.2	123.7	123.7	113.1	113.8	115.4	A/C CODE: 509	
	108.8	108.8	121.3	121.3	111.7	112.4	114.0	OPS CODE: 103	
	106.4	106.4	116.8	118.8	110.3	111.0	112.5	PROFILE VER: A	
	103.9	103.9	116.3	116.3	108.9	109.6	110.9	17 FEB 76	
	101.4	101.4	113.6	113.6	107.4	108.1	109.2	PAGE M2	
	98.9	98.8	110.8	110.8	105.8	106.5	107.4		
	96.1	96.1	107.8	107.8	104.1	104.8	105.5		
	93.4	93.4	104.6	104.6	102.3	103.0	103.3		
	90.5	90.5	101.2	101.2	100.4	101.1	100.8		
	87.4	87.4	97.5	97.5	98.3	99.0	98.2		
	84.1	84.1	93.7	93.7	96.1	96.8	95.3		
	80.7	80.7	89.7	89.7	93.6	94.3	92.3		
	76.9	76.9	85.2	85.2	90.8	91.4	88.7		
	72.7	72.7	80.3	80.3	87.6	88.1	84.7		
	68.1	68.1	74.9	74.9	84.1	84.4	80.1		
	63.3	63.3	69.3	69.3	80.3	80.4	75.4		
	58.0	58.0	63.5	63.5	76.0	76.0	70.5		
	52.3	52.3	57.0	57.0	71.2	71.2	64.9		
	46.0	46.0	50.1	50.1	65.9	65.9	59.1		
	39.2	39.2	42.4	42.4	60.2	60.2	52.4		
	32.0	32.0	33.8	33.8	53.9	53.9	44.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	F-5A,B TAKEOFF POWER								
250	(	(	(	(	(	(	(	(	(
	101 % RPM								
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F REL HUMID = 70 %								
500	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
630	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
800	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-509-103-170276-A								
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
									GROUND TO GROUND
									P = PNL
									* = PNL
									† = ALT
									A = AL

ST-E

200 ( F-5A,8 TAKEOFF POWER )

250 ( 101 % RPM )

315 ( AIRSPEED = 300 KNOTS )

400 ( TEMP = 59 F REL HUMID = 70 % )

500 ( DELTA N = 0.0 DB )

( NO. OF RECORDS: 1 )

( IDENT: 6.6-509-103-170276-A )

S 630 ( )

L 800 ( )

A 1000 ( )

N 1250 ( )

T 1600 ( )

D 2000 ( )

I 2500 ( )

S 3150 ( )

T 4000 ( )

A 5000 ( )

N 6300 ( )

C 8000 ( )

E 10000 ( )

E 12500 ( )

E 16000 ( )

T 20000 ( )

25000 ( )

NOISE LEVEL IN DB

40 50 60 70 80 90 100 110 120

GROUND TO GROUND  
E = EPNL  
T = SELT  
S = SEL

	10	20	30	40	50	60	70	80	MEAN	SD
50	.	.	.	.	.	.	.	.	67.3	
63	.	.	.	.	.	.	X.	.	67.3	
80	.	.	.	.	.	.	X.	.	67.3	
100	.	.	.	.	.	.	X.	.	67.2	
125	.	.	.	.	.	.	X.	.	67.2	
160	.	.	.	.	.	.	X.	.	67.7	
200	.	.	.	.	.	.	X.	.	66.5	
250	.	.	.	.	.	.	X.	.	68.1	
315	.	.	.	.	.	.	X.	.	73.4	
400	.	.	.	.	.	.	X.	.	71.7	
500	.	.	.	.	.	.	X.	.	71.9	
630	.	.	.	.	.	.	X.	.	73.0	
800	.	.	.	.	.	.	X.	.	74.7	
1000	.	.	.	.	.	.	X.	.	74.7	
1250	.	.	.	.	.	.	X.	.	74.6	
1600	.	.	.	.	.	.	X.	.	76.5	
2000	.	.	.	.	.	.	X.	.	74.9	
2500	.	.	.	.	.	.	X.	.	69.2	
3150	.	.	.	.	.	.	X.	.	65.6	
4000	.	.	.	.	.	.	X.	.	61.5	
5000	.	.	.	.	.	.	X.	.	54.5	
6300	.	.	.	.	.	.	X.	.	49.5	
8000	.	.	.	.	.	.	X.	.	45.4	
10000	.	.	.	.	.	.	X.	.	42.6	

F-5A,B CRUISE POWER 86 % RPM

AIRSPEED = 325 KNOTS TEMP = 59 F PNLT = 95.5 PNOB  
 SLANT DISTANCE = 1000 FEET KEL HUMID = 70 % PNL = 94.9 PNOB  
 NO. OF RECORDS = 1 IDENT: 6.6-509-134-170276 ALT = 84.3 DBA  
 AL = 83.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
ATR-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
( OPERATION:		A/C CODE: 509																						
( CPUISE POWER		OPS CODE: 104																						
( 86 % RPM		PROFILE VER: A																						
(		17 FEB 76																						
( AIRSPEED = 325 KNOTS		DELTA N = 0.0 DB																						
		PAGE H3																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	81	81	81	81	82	81	82	88	86	87	88	90	90	90	93	92	87	84	82	77	75	76	81
250	79	79	79	79	79	80	79	80	86	84	85	86	88	88	88	90	89	85	82	80	74	72	73	77
315	77	77	77	77	77	78	77	78	84	82	82	84	86	86	86	88	87	82	80	77	71	69	70	73
400	75	75	75	75	75	76	75	76	82	80	80	82	83	84	84	86	85	80	77	75	69	66	66	69
500	73	73	73	73	73	74	73	74	80	78	78	80	81	82	82	84	83	77	75	72	66	63	62	64
630	71	71	71	71	71	72	71	72	78	76	76	77	79	79	79	81	80	75	72	69	62	59	57	58
800	69	69	69	69	69	70	69	70	76	74	74	75	77	77	77	79	78	72	69	65	59	54	52	51
1000	67	67	67	67	67	68	67	68	73	72	72	73	75	75	75	77	75	69	66	62	55	50	45	43
1250	65	65	65	65	65	66	64	66	71	70	70	71	72	72	72	74	72	56	62	57	50	44	38	33
1600	63	63	63	63	63	64	62	64	69	67	67	68	70	70	69	71	69	63	58	53	45	37	29	21
2000	61	61	61	61	61	61	60	62	67	65	65	66	67	67	67	68	66	59	54	47	38	29	19	6
2500	59	59	59	59	59	59	58	59	65	63	63	63	65	64	63	64	62	54	48	41	31	20	6	
3150	57	57	57	57	57	57	56	57	62	60	60	61	62	61	60	61	58	49	42	33	23	9		
4000	55	55	55	55	55	55	54	55	60	58	57	58	59	58	56	57	53	44	35	24	13			
5000	53	53	53	53	53	53	51	52	57	55	55	55	55	54	52	52	47	37	27	13	0			
6300	51	51	51	51	51	50	49	50	55	52	52	52	52	50	48	46	41	29	17	0				
8000	49	49	48	48	48	48	46	47	52	49	48	48	48	45	42	40	33	20	5					
10000	47	46	46	46	45	45	44	44	49	46	45	44	43	40	36	32	24	9						
12500	44	44	44	43	43	43	41	41	46	42	40	39	38	34	29	24	13							
16000	42	42	41	41	40	40	38	38	42	38	36	34	31	26	20	13	0							
20000	40	39	39	38	37	37	34	34	38	33	30	28	24	18	9									
25000	37	37	36	35	34	34	31	30	33	28	24	20	15	7										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:		
(	200	99.8	100.4	112.1	112.7	97.6	98.6	100.8	) OMEGA 6.6	
(	250	97.7	98.2	109.9	110.5	96.5	97.5	99.6	) A/C CODE: 509	
(	315	95.5	96.0	107.6	108.2	95.3	96.3	98.3	) OPS CODE: 104	
(	400	93.2	93.8	105.2	105.8	94.0	95.0	96.9	) PROFILE VER: A	
(	500	91.0	91.5	102.8	103.4	92.8	93.8	95.5	) 17 FEB 76	
(	630	88.6	89.2	100.3	100.9	91.4	92.4	94.0	) PAGE 13	
(	800	86.2	86.8	97.7	98.2	90.0	91.0	92.4		
(	1000	83.7	84.3	94.9	95.5	88.5	89.5	90.6		
(	1250	81.1	81.7	92.0	92.6	86.9	87.9	88.7		
(	1600	78.3	78.9	89.0	89.5	85.2	86.2	86.7		
(	2000	75.5	76.1	85.8	86.4	83.3	84.3	84.5		
(	2500	72.4	73.0	82.5	83.1	81.2	82.2	82.2		
(	3150	69.2	69.8	78.9	79.5	79.0	80.0	79.6		
(	4000	65.8	66.2	75.0	75.5	76.6	77.4	76.5		
(	5000	62.1	62.5	70.8	71.2	73.9	74.5	73.1		
(	6300	58.3	58.5	66.5	66.7	71.1	71.5	69.6		
(	8000	54.3	54.4	62.5	62.7	68.1	68.3	66.4		
(	10000	50.0	50.0	58.3	58.3	64.9	64.9	63.0		
(	12500	45.7	45.7	53.8	53.8	61.5	61.5	59.5		
(	16000	41.1	41.1	48.7	48.7	57.9	57.9	55.4		
(	20000	36.4	36.4	42.9	42.9	54.2	54.2	50.6		
(	25000	31.5	31.5	36.4	36.4	50.3	50.3	45.1		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
	F-5A,B	86 % RPM	CRUISE POWER						
250	(	(	(	(	(	(	(	(	(
	AIR SPEED = 325 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
	IDENT: 6.6-509-104-170276-A								
S 630	(	(	(	(	(	(	(	(	(
L A 600	(	(	(	(	(	(	(	(	(
N T 1000	(	(	(	(	(	(	(	(	(
D 1250	(	(	(	(	(	(	(	(	(
I S 1600	(	(	(	(	(	(	(	(	(
T A 2000	(	(	(	(	(	(	(	(	(
N C 2500	(	(	(	(	(	(	(	(	(
E 3150	(	(	(	(	(	(	(	(	(
I N 4000	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
T 8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

AIR TO GROUND  
P = PNLT  
\* = PNL  
† = ALT  
A = AL

Frequency (Hz)	Amplitude (dB)	Phase (deg)	Notes
200	(	(	F-5A,B CRUISE POWER ST-E)
250	(	(	86% RPM . . . . . STE
315	(	(	AIRSPEED = 325 KNOTS . . . . . STE
400	(	(	TEMP = 59 F REL HUMID = 70% . . . . . STE
500	(	(	DELTA N = 0.0 DB . . . . . STE
630	(	(	NO. OF RECORDS: 1 . . . . . STE
800	(	(	IDENT: 6.6-509-104-170276-A . . . . . STE
1000	(	(	. . . . .
1250	(	(	. . . . . STE
1600	(	(	. . . . . STE
2000	(	(	. . . . . STE
2500	(	(	. . . . . SX
3150	(	(	. . . . . SX
4000	(	(	. . . . . X
5000	(	(	. . . . . EST
6300	(	(	. . . . . EX
8000	(	(	. . . . . EX
10000	(	(	. . . . . EX
12500	(	(	. . . . . E.X
16000	(	(	. . . . . E X
20000	(	(	. . . . . E X
25000	(	(	. . . . . X

AIR TO GROUND  
E = EPNL  
T = SELT  
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
OPERATION:		A/C CODE: 509																							
CRUISE POWER		OPS CODE: 104																							
86 % RPM		REL HUMID = 70 %																							
AIRSPEED = 325 KNOTS		PROFILE VER: A																							
DELTA N = 0.0 DB		17 FEB 76																							
PAGE L3																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
	76	76	76	76	76	77	76	77	83	81	82	83	85	85	85	88	87	82	79	77	77	72	70	71	76
	74	74	74	74	74	75	74	75	81	79	80	81	83	83	83	85	84	80	77	75	75	69	67	68	72
	72	72	72	72	72	73	72	73	79	77	77	79	81	81	81	83	82	77	75	72	72	66	64	65	68
	70	70	70	70	71	70	71	77	75	75	75	77	78	79	79	81	80	75	72	70	64	61	61	64	
	68	68	68	68	68	67	67	75	73	73	73	75	76	77	77	79	78	72	70	67	61	58	57	59	
	66	66	66	66	66	66	67	73	71	71	71	72	74	74	74	76	75	70	67	64	57	54	52	53	
	64	64	64	64	63	62	64	71	69	69	70	72	72	72	72	74	73	67	64	60	54	49	47	46	
	62	62	61	60	60	59	61	68	67	67	68	70	70	70	70	72	70	64	61	57	50	45	40	38	
	60	60	58	57	57	56	58	65	65	65	66	67	67	67	67	69	67	61	57	52	45	39	33	28	
	58	57	56	54	53	53	52	62	62	62	63	65	65	65	64	66	64	58	53	48	40	32	24	16	
	55	54	52	51	50	49	48	50	58	60	60	61	62	62	62	63	61	54	49	42	33	24	14	1	
	52	50	48	46	45	45	44	54	56	58	58	60	59	58	59	57	49	43	36	26	15	1			
	48	45	43	41	40	40	39	41	50	52	54	56	57	56	55	56	53	44	37	28	18	4			
	43	40	39	36	35	35	33	35	45	47	50	52	54	53	51	52	48	39	30	19	8				
	38	35	33	31	30	30	28	30	39	42	46	48	50	49	47	47	42	32	22	8					
	33	31	29	26	25	25	23	25	33	36	42	44	46	45	43	41	36	24	12						
	31	29	26	24	23	22	21	22	30	33	38	40	42	40	37	35	28	15	0						
	29	26	24	22	20	20	18	19	27	30	35	37	35	31	27	19	4								
	26	24	22	19	18	17	15	16	24	26	30	31	32	29	24	19	8								
	24	22	19	17	15	14	12	13	20	22	26	26	25	21	15	8									
	22	19	17	14	12	11	9	9	16	17	20	20	18	13	4										
	19	17	14	11	9	8	5	5	11	12	14	12	9	2											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT	AL (DBA)	ALT** (DBA)	PML (PNDB)	PMLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION	
F-5A,B	94.8	95.6	107.1	107.8	92.6	93.8	95.9	OMEGA	6.6
	92.7	93.4	104.8	105.6	91.5	92.6	94.7		
	90.5	91.2	102.5	103.3	90.3	91.4	93.4		
	88.2	89.0	100.1	100.9	89.0	91.2	92.0		
	86.0	86.7	97.7	98.4	87.8	88.9	90.6		
	83.6	84.4	95.1	95.9	86.4	87.6	89.0		
	81.2	81.9	92.5	93.2	85.0	86.2	87.3		
	78.7	79.4	89.6	90.4	83.5	84.6	85.5		
	76.0	76.8	86.6	87.4	81.9	82.9	83.5		
	73.3	74.0	83.4	84.1	80.1	81.2	81.3		
	70.4	71.1	80.0	80.8	78.2	79.3	78.9		
	67.2	67.9	76.3	77.0	76.0	77.2	76.2		
	63.8	64.5	72.2	72.9	73.6	74.8	73.1		
	60.0	60.6	67.6	68.2	70.8	71.8	69.2		
	55.8	56.2	62.5	63.0	67.6	68.3	64.9		
	51.1	51.4	56.8	57.1	63.9	64.4	60.0		
	46.5	46.6	51.2	51.3	60.3	60.5	55.1		
	41.4	41.4	45.0	45.0	56.2	56.2	49.7		
	35.9	35.9	38.0	38.0	51.7	51.7	43.7		
	29.9	29.9	29.8	29.8	46.7	46.7	36.5		
	23.3	23.3	18.9	18.9	41.1	41.1	26.6		
	16.3	16.3	8.0	8.0	35.1	35.1	16.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 800	(	(	(	(	(	(	(	(	(
N 1000	(	(	(	(	(	(	(	(	(
T 1000	(	(	(	(	(	(	(	(	(
D 1250	(	(	(	(	(	(	(	(	(
I 1250	(	(	(	(	(	(	(	(	(
S 1600	(	(	(	(	(	(	(	(	(
T 1600	(	(	(	(	(	(	(	(	(
A 2000	(	(	(	(	(	(	(	(	(
N 2000	(	(	(	(	(	(	(	(	(
G 2500	(	(	(	(	(	(	(	(	(
E 3150	(	(	(	(	(	(	(	(	(
I 4000	(	(	(	(	(	(	(	(	(
N 4000	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
E 5000	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
T 8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

F-5A,B CRUISE POWER  
 86 % RPM  
 AIRSPEED = 325 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 1  
 IDENT: 6.6-509-104-170276-A

GROUND TO GROUND  
 P = PNLT  
 \* = PNL  
 + = ALT  
 A = AL

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200 (-----ST-E-----)
( F-5A,B      CRUISE POWER
(   86 % RPM
( AIRSPEED = 325 KNOTS
315 ( TEMP = 59 F  REL HUMID = 70 %
( DELTA N = 0.0 DB
400 ( NO. OF RECORDS: 1
( IDENT: 6.6-599-104-170276-A
500 (
(
( S 630 ( . . . . . S T E .
( L 800 ( . . . . . S T E .
( A 800 ( . . . . . S T E .
( N 1000 ( . . . . . S T E .
( T 1000 ( . . . . . S T E .
( D 1250 ( . . . . . S T E .
( I 1600 ( . . . . . S T E .
( S 1600 ( . . . . . S T E .
( T 2000 ( . . . . . S T E .
( A 2000 ( . . . . . S T E .
( N 2500 ( . . . . . S T E .
( C 3150 ( . . . . . S T E .
( E 4000 ( . . . . . S T E .
( I 5000 ( . . . . . S T E .
( N 6300 ( . . . . . S T E .
( E 6000 ( . . . . . S T E .
( T 10000 ( . . . . . S T E .
( 12500 ( . . . . . S T E .
( 16000 ( . . . . . S T E .
( 20000 ( . . . . . S T E .
( 25000 ( . . . . . S T E .

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FREQUENCY	10	20	30	40	50	60	70	80	MEAN	SD
50	.	.	.	.	.	.	.	.	73.7	.
63	.	.	.	.	.	.	.	.X	73.6	.
80	.	.	.	.	.	.	.	.X	73.6	.
100	.	.	.	.	.	.	.	.X	73.6	.
125	.	.	.	.	.	.	.	.X	73.6	.
160	.	.	.	.	.	.	.	.X	73.7	.
200	.	.	.	.	.	.	.X	.	72.3	.
250	.	.	.	.	.	.	.X	.	76.0	.
315	.	.	.	.	.	.	.X	.	75.0	.
400	.	.	.	.	.	.	.X	.	75.5	.
500	.	.	.	.	.	.	.X	.	74.9	.
630	.	.	.	.	.	.	.X	.	75.6	.
800	.	.	.	.	.	.	.X	.	76.1	.
1000	.	.	.	.	.	.	.X	.	75.7	.
1250	.	.	.	.	.	.	.X	.	76.4	.
1600	.	.	.	.	.	.	.X	.	75.3	.
2000	.	.	.	.	.	.	.X	.	73.9	.
2500	.	.	.	.	.	.	.X	.	71.1	.
3150	.	.	.	.	.	.	.X	.	68.7	.
4000	.	.	.	.	.	.X	.	.	64.9	.
5000	.	.	.	.	.	.X	.	.	57.5	.
6300	.	.	.	.	.X	.	.	.	52.0	.
8000	.	.	.	.	.X	.	.	.	47.1	.
10000	.	.	.	.X	.	.	.	.	43.3	.

F-5A,B APPROACH POWER 82 % RPM  
 AIRSPEED = 170 KNOTS TEMP = 59 F PNLT = 96.3 PNDB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 96.3 PNDB  
 NO. OF RECORDS = 1 IDENT: 6.6-509-105-170276 ALT = 84.7 DBA  
 AL = 84.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DR)*		IDENTIFICATION:																							
AIP-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 509																							
( OPERATION: )		OPS CODE: 105																							
( APPROACH POWER )		PROFILE VER: A																							
( 82 % RPM )		17 FEB 76																							
( REL HUMID = 70 % )		PAGE H4																							
( AIRSPEED = 170 KNOTS )		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 210	( 88	88	88	88	88	88	88	87	90	89	90	90	90	91	91	92	91	90	89	87	85	79	77	77	80
( 250	( 86	86	86	86	86	86	86	85	88	87	88	87	88	89	89	90	89	88	86	85	83	77	74	74	77
( 315	( 84	84	84	84	84	84	84	83	86	85	86	85	86	87	87	88	87	86	84	83	80	74	71	71	73
( 400	( 82	82	82	82	82	82	82	80	84	83	84	83	84	85	85	86	85	84	82	80	78	71	68	67	69
( 500	( 80	80	80	80	80	80	80	78	82	81	82	81	82	83	82	83	83	82	79	78	75	68	65	63	64
( 630	( 78	78	78	78	78	78	78	76	80	79	80	79	80	81	80	81	80	79	77	75	72	65	61	58	58
( 800	( 76	76	76	76	76	76	76	74	78	77	78	77	78	78	78	78	78	77	74	72	69	61	57	53	51
( 1000	( 74	74	74	74	74	74	74	72	76	75	76	75	76	76	76	76	75	74	71	69	65	58	52	47	43
( 1250	( 72	72	72	72	72	72	72	70	74	73	73	73	73	74	73	74	73	71	68	65	61	53	46	40	34
( 1600	( 70	70	70	70	70	69	70	68	72	71	71	70	71	71	71	71	71	70	65	61	56	48	40	32	22
( 2000	( 68	67	67	67	67	67	67	66	70	69	69	68	69	69	68	68	67	65	61	57	51	42	33	22	9
( 2500	( 66	65	65	65	65	65	65	64	67	66	67	66	66	66	65	65	63	61	57	52	45	35	24	9	
( 3150	( 64	63	63	63	63	63	63	62	65	64	64	63	63	63	62	62	60	57	52	46	37	27	13		
( 4000	( 61	61	61	61	61	61	61	59	63	62	62	62	61	61	60	59	59	56	52	46	39	29	17		
( 5000	( 59	59	59	59	59	59	59	57	60	59	59	58	58	57	55	55	51	47	40	32	18	5			
( 6300	( 57	57	57	57	57	57	57	55	58	56	56	55	54	54	51	50	46	41	32	22	6				
( 8000	( 55	55	55	55	54	54	54	52	55	54	53	52	51	49	47	45	40	33	23	11					
( 10000	( 53	53	53	52	52	52	52	50	53	51	50	48	47	45	42	39	32	25	13						
( 12500	( 51	50	50	49	49	49	47	46	46	44	42	42	42	40	36	32	24	14							
( 16000	( 49	48	48	47	47	46	44	44	44	42	42	39	37	34	29	23	14	2							
( 20000	( 46	46	45	45	44	43	40	43	40	38	34	31	27	20	13	1									
( 25000	( 44	43	43	42	41	40	37	39	35	33	28	24	18	10	1										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
( F-5A,B	100.6	100.6	113.3	113.3	100.1	100.8	103.6	OMEGA	6.6
(	99.5	98.5	111.1	111.1	99.0	99.7	102.4		
(	96.3	96.3	108.8	108.8	97.8	98.5	101.1	A/C CODE: 509	
(	94.1	94.1	106.5	106.5	96.6	97.3	99.8	OPS CODE: 105	
(	91.8	91.8	104.1	104.1	95.3	96.0	98.4	PROFILE VER: A	
(	89.5	89.5	101.6	101.6	94.0	94.7	96.9	17 FEB 76	
(	87.1	87.1	99.0	99.0	92.7	93.4	95.3	PAGE I4	
(									
(	84.7	84.7	96.3	96.3	91.2	91.9	93.6		
(	82.1	82.1	93.5	93.5	89.7	90.4	91.8		
(	79.5	79.5	90.5	90.5	88.0	88.7	89.8		
(	76.8	76.8	87.4	87.4	86.3	87.0	87.7		
(	73.9	73.9	84.2	84.2	84.4	85.1	85.4		
(	70.9	70.9	80.7	80.7	82.4	83.1	83.0		
(	67.7	67.7	77.1	77.1	80.2	80.8	80.2		
(	64.3	64.3	73.7	73.7	77.9	78.3	77.7		
(	60.9	60.9	70.1	70.1	75.4	75.6	75.0		
(	57.2	57.2	66.4	66.4	72.7	72.8	72.1		
(									
(	53.4	53.4	62.4	62.4	69.9	69.9	69.0		
(	49.4	49.4	58.1	58.1	66.9	66.9	65.7		
(	45.3	45.3	53.4	53.4	63.8	63.8	61.9		
(	41.0	41.0	48.3	48.3	60.5	60.5	57.9		
(	36.5	36.5	42.5	42.5	57.0	57.0	53.0		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



NOISE LEVEL IN DB	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
( OPERATION:		A/G CODE: 509																						
( APPROACH POWER		OPS CODE: 105																						
( 82 % RPM		REL HUMID = 70 %																						
( AIRSPEED = 170 KNOTS		PROFILE VER: A																						
( DELTA N = 0.0 DB		17 FEB 76																						
		PAGE L4																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	83	83	83	83	83	82	85	84	85	85	85	86	86	87	86	85	94	82	80	74	72	72	75
250	81	81	81	81	81	81	80	83	82	83	82	83	84	84	85	84	83	81	80	78	72	69	69	72
315	79	79	79	79	79	79	78	81	80	81	80	81	82	82	83	82	81	79	78	75	69	66	66	68
400	77	77	77	77	77	77	75	79	78	79	78	79	80	80	81	80	79	77	75	73	66	63	62	64
500	75	75	75	75	75	74	73	77	76	77	76	77	78	77	78	78	77	74	73	70	63	60	58	59
630	73	73	73	73	72	72	70	74	74	75	74	75	76	75	76	75	74	72	70	67	60	56	53	53
800	71	71	71	70	69	69	67	72	72	73	72	73	73	73	74	73	72	69	67	64	56	52	48	46
1000	69	69	69	67	66	66	65	69	70	71	70	71	71	71	71	70	69	56	64	60	53	47	42	38
1250	67	67	66	64	63	63	61	66	67	68	68	68	69	68	69	68	66	63	60	56	48	41	35	29
1600	65	63	62	61	60	59	58	62	64	66	65	66	66	66	66	65	63	60	56	51	43	35	27	17
2000	62	60	59	57	56	55	54	58	60	64	63	64	64	63	63	62	60	56	52	46	37	28	17	4
2500	58	56	54	53	52	51	50	54	56	60	61	61	61	60	60	58	56	52	47	40	30	19	4	
3150	54	51	50	48	47	46	45	49	52	56	57	58	58	57	57	55	52	47	41	32	22	8		
4000	50	46	44	42	41	41	39	43	46	51	53	53	53	53	54	51	47	41	34	24	12			
5000	44	42	40	37	36	36	34	38	40	46	49	51	52	50	50	46	42	35	27	13	0			
6300	39	37	35	33	32	31	29	33	34	40	45	46	48	46	45	41	36	27	17	1				
8000	37	35	33	31	29	29	27	30	32	37	42	43	43	42	40	35	28	18	6					
10000	35	33	31	28	27	26	24	28	29	34	38	39	39	37	34	27	20	8						
12500	33	30	28	26	24	23	21	25	25	30	34	34	34	31	27	19	9							
16000	31	28	26	23	22	21	18	21	22	26	29	29	28	24	18	9								
20000	28	26	23	21	19	18	15	18	18	22	24	23	21	15	8									
25000	26	23	21	18	16	14	11	14	13	17	18	16	12	5										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-5A,B	95.6	95.6	108.3	108.3	95.1	95.8	98.5	OMEGA	6.6
	93.5	93.5	106.0	106.0	94.0	94.7	97.3	A/C CODE: 509	
	91.3	91.3	103.8	103.8	92.8	93.5	96.0	OPS CODE: 105	
	89.1	89.1	101.4	101.4	91.6	92.3	94.7	PROFILE VER: A	
	86.8	86.8	99.0	99.0	90.3	91.0	93.2	17 FEB 76	
	84.5	84.5	96.4	96.4	89.0	89.7	91.7	PAGE M4	
	82.1	82.1	93.8	93.8	87.6	88.3	90.0		
	79.6	79.6	90.9	90.9	86.1	86.8	88.2		
	77.0	77.0	87.9	87.9	84.6	85.3	86.2		
	74.3	74.3	84.7	84.7	82.9	83.6	84.0		
	71.5	71.5	81.3	81.3	81.0	81.7	81.5		
	68.5	68.5	77.6	77.6	79.0	79.7	78.8		
	65.1	65.1	73.4	73.4	76.7	77.4	75.7		
	61.5	61.5	68.9	68.9	74.0	74.6	72.0		
	57.4	57.4	63.8	63.8	70.9	71.3	67.8		
	52.9	52.9	58.4	58.4	67.4	67.7	63.3		
	48.5	48.5	53.7	53.7	64.0	64.2	59.4		
	43.8	43.8	48.1	48.1	60.3	60.3	54.7		
	38.6	38.6	41.7	41.7	56.1	56.1	49.3		
	32.9	32.9	34.8	34.8	51.4	51.4	43.3		
	26.8	26.8	25.4	25.4	46.3	46.3	35.0		
	20.2	20.2	13.7	13.7	40.7	40.7	24.3		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
	F-5A,B	82 % RPM	APPROACH POWER						
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 170 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
	IDENT: 6.6-509-105-170276-A								
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(
N 1250	(	(	(	(	(	(	(	(	(
T 1600	(	(	(	(	(	(	(	(	(
D 2000	(	(	(	(	(	(	(	(	(
I 2500	(	(	(	(	(	(	(	(	(
S 3150	(	(	(	(	(	(	(	(	(
T 4000	(	(	(	(	(	(	(	(	(
A 5000	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(
C 8000	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(
E 12500	(	(	(	(	(	(	(	(	(
T 16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

GROUND TO GROUND  
P = PNL  
+ = PNL  
+ = ALT  
A = AL





TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 509																			
F-5A,B AIRCRAFT ( IDLE, 50% RPM, F-5A,B ) TEMP = 53 F ) OPERATION CODE 32013																			
ENG. J65-GE-21 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 13 APR 76																			
( RE F-5E LEVELS -0.9 DB ) DELTA N = -3.9 DB ) PAGE C1																			
BAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	63	63	64	63	64	62	63	63	62	63	64	61	64	65	64	66	64	62
63	62	62	62	63	62	62	61	62	61	61	60	62	62	62	63	64	63	62	60
90	60	61	61	61	58	58	60	58	58	57	59	59	61	60	62	63	63	61	60
100	63	63	62	61	61	62	61	59	61	60	61	60	61	63	65	65	65	62	60
125	66	67	68	67	65	66	65	67	67	65	65	65	65	67	66	66	66	63	58
160	67	67	69	68	67	67	67	69	68	69	70	71	69	68	67	68	66	65	58
200	63	63	62	62	62	63	61	64	63	62	64	64	65	64	63	61	59	58	56<
250	60	62	62	62	62	62	61	59	61	59	60	60	62	64	60	56	54	56	53
315	64	65	64	62	62	62	61	62	63	62	59	62	66	65	62	59	57	60	53
400	63	64	63	61	61	58	59	58	59	55	59	61	64	63	60	58	57	59	50
500	61	62	61	57	56	55	54	50	53	50	54	58	61	60	57	55	55	56	49
630	65	65	64	58	58	57	52	49	54	49	52	56	67	59	56	54	54	54	51
800	66	66	63	61	58	58	53	51	55	50	51	54	58	57	57	55	54	53	45
1000	67	65	64	63	61	60	54	52	54	49	51	53	55	55	55	52	52	51	44
1250	68	65	66	63	62	59	56	54	54	47	47	49	52	51	52	51	50	48	40
1600	71	68	70	67	66	64	58	54	55	50	50	50	51	51	53	50	50	48	40
2000	72	70	70	68	68	65	60	57	57	50	49	49	49	50	51	50	51	48	41
2500	71	70	69	68	67	63	58	56	56	49	52	51	49	50	52	50	52	49	42
3150	72	71	70	70	67	63	59	56	58	49	52	51	51	51	52	49	51	49	42
4000	71	70	72	71	72	68	62	65	63	57	55	56	50	51	53	53	54	50	43
5000	66	65	66	63	64	59	54	56	55	49	49	50	45	45	47	46	47	44	38
6300	68	67	67	65	64	58	51	49	51	40	44	44	43	44	44	40	43	42	33
8000	66	66	66	64	63	57	50	49	49	39	44	43	43	43	41	39	41	40	27<
10000	60	59	59	56	55	49	44	41	43	33<	38	41	40	38	38	33<	35<	34<	21<
OVERALL	81	80	80	79	78	76	74	75	74	73	74	75	75	75	74	74	74	72	68

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	NOISE SOURCE/SUBJECT																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
260	96.9	95.9	96.3	95.0	94.8	91.5	87.0	87.6	87.0	81.8	82.1	83.0	82.2	82.1	82.1	80.8	81.5	79.1	72.6
250	94.6	93.6	93.9	92.7	92.5	89.1	84.6	85.2	84.7	79.5	79.7	80.7	80.0	79.9	79.8	78.5	79.1	76.8	70.3
315	92.2	91.2	91.5	90.2	90.0	86.7	82.2	82.8	82.3	77.1	77.3	78.3	77.7	77.5	77.4	76.1	76.7	74.4	67.9
400	89.7	88.7	88.9	87.6	87.5	84.2	79.7	80.2	79.7	74.6	74.8	75.8	75.4	75.3	74.9	73.6	74.2	71.9	65.3
500	87.1	86.1	86.2	84.9	84.8	81.5	77.0	77.5	77.0	71.9	72.1	73.1	73.0	72.9	72.3	71.0	71.6	69.3	62.6
630	84.4	83.3	83.4	82.1	81.9	78.6	74.1	74.7	74.2	69.1	69.3	70.3	70.6	70.4	69.6	68.2	68.8	66.6	59.8
800	81.5	80.4	80.3	79.0	78.8	75.6	71.1	71.6	71.2	66.3	66.3	67.3	68.0	67.8	66.7	65.3	65.8	64.0	56.8
1000	78.4	77.3	77.0	75.9	75.5	72.3	67.2	68.3	67.9	62.7	63.1	64.1	65.3	65.1	63.8	62.1	62.6	61.2	53.6
1250	75.0	73.9	73.5	72.4	71.8	68.7	64.2	64.6	64.2	59.0	59.5	60.8	62.4	62.2	60.7	59.1	59.0	58.1	49.9
1600	71.5	70.3	70.0	68.7	67.8	64.7	60.5	60.5	60.2	54.7	56.0	57.5	59.2	58.9	57.4	55.7	55.3	54.6	46.1
2000	67.8	66.3	66.2	64.5	63.7	60.9	56.7	55.8	55.7	49.9	52.2	53.9	55.9	55.5	53.7	51.9	51.3	51.0	41.8
2500	63.9	62.2	62.2	60.1	59.5	56.7	52.3	50.4	51.0	44.8	47.5	49.4	51.6	51.2	49.1	47.1	46.6	46.3	36.9
3150	59.4	57.7	57.6	55.5	54.9	52.1	47.8	44.8	45.7	39.1	42.0	44.1	46.7	46.2	43.8	41.8	40.9	40.6	30.0
4000	54.3	52.6	52.6	50.1	49.5	46.0	40.5	37.7	39.0	30.6	34.7	37.1	40.7	39.8	37.3	35.0	34.3	34.3	21.8
5000	48.5	46.3	46.5	43.5	42.7	39.3	33.2	29.0	30.8	18.7	24.6	29.0	33.2	32.9	30.8	26.8	25.8	25.4	12.5
6300	41.3	38.8	39.4	36.1	34.8	30.4	22.2	9.2	19.5	6.8	9.9	18.7	25.0	24.2	20.3	15.3	14.1	16.2	3.3
8000	33.7	32.4	31.4	26.4	23.9	19.2	11.2		8.2		8.5	18.5	17.6	17.6	9.8	3.8	2.3	6.9	
10600	24.3	22.6	20.1	10.2	13.0	8.1	.2					7.6	7.1						
12500	10.0	10.4	8.7		2.2														
16000																			
20000																			
25000																			

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION																		
	METEOROLOGY																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
F-5A, P	96.9	95.9	97.5	96.5	96.9	93.6	88.8	90.4	89.1	84.6	83.6	94.3	82.9	82.6	83.4	82.5	83.1	80.3	73.8
ENG. J85-GE-21	94.6	93.6	95.2	94.1	94.5	91.2	86.5	88.1	86.7	82.2	81.3	82.5	80.7	80.4	81.0	80.1	80.8	78.0	71.4
GROUND RUNUP	92.2	91.2	92.7	91.7	92.1	88.8	84.1	85.7	84.3	79.8	78.9	80.1	78.4	78.1	78.6	77.8	78.4	75.6	69.0
	89.7	88.7	90.2	89.1	89.5	86.2	81.5	83.1	81.8	77.3	76.3	77.6	76.1	75.8	76.2	75.3	75.9	73.1	66.5
	87.1	86.1	87.5	86.4	86.8	83.5	78.9	80.4	79.1	74.6	73.7	75.0	73.7	73.4	73.6	72.7	73.2	70.5	63.8
	84.4	83.3	84.6	83.5	83.9	80.7	76.0	77.5	76.2	71.8	70.9	72.2	71.2	70.9	70.8	69.9	70.4	67.8	61.0
	81.5	80.4	81.6	80.5	80.8	77.6	73.0	74.5	73.2	68.7	67.9	69.2	68.7	68.3	67.9	67.0	67.5	65.2	57.9
	78.4	77.3	79.3	77.3	77.5	74.4	69.8	71.2	70.0	65.4	64.6	66.0	66.0	65.6	65.1	63.8	64.2	62.3	54.7
	75.0	73.9	74.8	73.9	73.8	70.8	66.1	67.4	66.3	61.7	61.0	62.7	63.1	62.7	61.9	60.8	60.6	59.3	51.1
	71.5	70.3	71.2	70.2	69.8	66.7	62.3	63.4	62.3	57.4	57.5	59.4	59.9	59.4	58.6	57.4	57.0	55.8	47.3
	67.8	66.3	67.5	66.0	65.7	63.0	58.5	58.6	57.8	52.6	53.8	55.7	56.5	56.0	55.0	53.6	53.0	52.2	43.0
	63.9	62.2	63.4	61.5	61.5	58.7	54.2	53.2	53.0	47.5	49.1	51.2	52.2	51.7	50.4	48.8	48.2	47.5	38.1
	59.4	57.7	58.9	56.9	56.9	54.1	48.9	47.6	47.7	41.9	43.6	45.9	47.4	46.7	45.0	43.4	42.5	41.8	31.2
	54.3	52.6	53.6	51.3	51.1	47.7	42.0	40.0	40.7	32.8	35.9	38.5	41.3	40.2	38.2	36.3	35.6	35.2	22.7
	48.5	46.3	47.4	44.4	43.9	40.5	34.3	30.7	32.0	20.3	25.5	30.1	33.6	33.2	31.5	27.8	26.8	26.1	13.2
	41.3	38.8	39.9	38.6	35.6	31.2	22.9	10.4	20.3	7.9	10.5	19.4	25.3	24.4	20.8	16.0	14.7	16.6	3.7
	33.7	32.4	31.7	26.6	24.3	19.8	11.6		8.6			8.9	18.6	17.7	10.0	4.2	2.7	7.2	
	24.3	22.6	20.1	10.2	13.0	8.1	.2						7.6	7.1					
	10.0	10.4	8.7		2.2														



TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OASL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.2	61.7	61.0	60.4	79.8	76.3	71.6	71.4	71.1	66.1	67.1	68.2	69.4	69.1	68.0	66.4	66.3	65.2	58.8
250	60.9	79.4	79.5	78.1	77.5	74.0	69.4	69.1	68.9	63.9	64.9	66.0	67.4	67.0	65.9	64.3	64.2	63.1	56.8
315	78.6	77.1	77.2	75.7	75.1	71.7	67.1	66.8	66.6	61.7	62.8	63.9	65.3	64.9	63.8	62.1	62.0	61.0	54.6
400	76.2	74.7	74.8	73.3	72.6	69.3	64.8	64.4	64.3	59.4	60.5	61.6	63.2	62.8	61.6	59.9	59.8	58.8	52.5
500	73.8	72.2	72.3	70.8	70.1	66.8	62.4	61.9	61.8	57.0	58.2	59.3	61.0	60.6	59.3	57.7	57.5	56.6	50.3
630	71.2	69.6	69.7	68.1	67.4	64.2	59.8	59.2	59.3	54.5	55.8	57.0	58.7	58.3	57.0	55.3	55.1	54.3	48.0
800	68.6	66.9	67.0	65.4	64.6	61.5	57.2	56.5	56.6	51.9	53.3	54.5	55.5	56.0	54.6	52.9	52.6	52.0	45.6
1000	65.8	64.1	64.2	62.5	61.7	58.7	54.3	53.6	53.8	49.2	50.7	52.0	54.1	53.6	52.1	50.4	50.1	49.5	43.2
1250	62.9	61.2	61.2	59.5	58.7	55.7	51.6	50.9	50.9	46.3	47.9	49.3	51.6	51.1	49.5	47.8	47.4	47.0	40.5
1600	59.9	58.2	58.2	56.3	55.4	52.6	48.5	47.2	47.8	43.2	44.9	46.5	49.0	48.4	46.8	45.1	44.6	44.3	37.8
2000	56.7	55.0	54.9	52.9	52.0	49.4	45.3	43.7	44.5	40.0	41.7	43.6	45.3	45.7	43.9	42.2	41.8	41.5	35.0
2500	53.4	51.6	51.5	49.4	48.4	45.9	41.8	39.9	41.1	36.4	38.4	40.3	43.1	42.5	40.8	39.0	38.6	38.4	31.9
3150	49.8	48.0	47.9	45.6	44.6	42.2	38.0	36.0	37.3	32.6	34.6	36.8	39.7	39.0	37.4	35.6	35.2	34.9	28.6
4000	45.9	44.2	43.9	41.5	40.5	38.2	34.0	31.7	33.3	28.6	30.6	32.8	35.9	35.2	33.6	31.8	31.4	31.1	24.8
5000	41.6	39.9	39.6	37.1	36.0	33.9	29.6	27.2	29.0	24.2	26.2	28.5	31.6	30.9	29.5	27.7	27.2	26.9	20.6
6300	36.9	35.3	34.8	32.4	31.1	29.2	24.8	22.4	24.4	19.6	21.6	24.1	27.2	26.5	25.1	23.3	22.8	22.4	16.2
8000	32.1	30.8	30.1	27.5	26.2	24.5	20.3	18.1	20.2	15.8	17.8	20.4	23.5	22.8	21.2	19.5	19.0	18.7	12.6
10000	27.0	26.0	25.0	22.3	21.0	19.5	15.6	13.7	15.8	11.7	13.9	16.5	19.6	18.9	17.1	15.3	14.9	14.8	8.7
12500	21.5	20.8	19.6	16.8	15.5	14.2	10.7	9.2	11.2	7.5	9.8	12.3	15.3	14.7	12.6	10.9	10.4	10.5	4.4
16000	15.6	15.3	13.9	10.9	9.8	8.7	5.7	4.7	6.4	3.1	5.4	7.8	10.7	10.0	7.7	6.1	5.7	5.8	1.9
20000	9.2	9.2	7.9	4.8	3.9	2.9	.7	.2	1.4	.9	.9	3.0	5.6	5.1	2.6	1.2	.7	.9	.2
25000	2.4	2.7	1.6																

IDENTIFICATION:  
 ) OMEGA 8.2  
 ) TEST 74-509-039  
 ) RUN 01  
 ) AIRCRAFT CODE 509  
 ) OPERATION CODE 02013  
 ) PROFILE VERSION A  
 ) 13 APR 78  
 ) PAGE F1

METEOROLOGY:  
 ) TFMP = 59 F  
 ) BAR PRESS = 29.92 IN HG  
 ) REL HUMID = 70 %  
 ) DELTA N = -3.9 DB

OPERATIONS:  
 ) IDLE, 50% RPM, F-5A,B  
 ) SINGLE ENGINE  
 ) ESTIMATED NOISE LEVELS  
 ) RE F-5C LEVELS -0.9 DB

NOISE SOURCE/SUBJECTS:  
 ) F-5A,B AIRCRAFT  
 ) SNG. JB5-G-21  
 ) GROUND RUNUP

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY																		
	TEMP = 59 F																		
F-5A,B AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. J85-GE-21	DELTA N = -3.9 DB																		
	RE F-5E LFVELS -0.9 DB																		
GROUND RUNUP	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	120	130	140	150	160	170	180	
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	120	130	140	150	160	170	180	
200	83.2	81.7	83.1	81.8	81.8	78.3	73.5	74.3	73.2	68.8	68.6	70.0	70.1	69.6	69.2	68.0	66.0	66.4	60.0
250	80.9	79.4	80.8	79.5	79.5	76.1	71.3	72.0	71.0	66.7	66.5	67.8	68.1	67.5	67.1	65.9	65.8	64.3	57.9
315	78.6	77.1	78.4	77.2	77.1	73.8	69.0	69.7	68.7	64.4	64.3	65.7	66.0	65.4	65.0	63.8	63.6	62.2	55.8
400	76.2	74.7	76.0	74.7	74.6	71.4	66.7	67.3	66.3	62.2	62.1	63.5	63.8	63.3	62.8	61.6	61.4	60.0	53.7
500	73.8	72.2	73.5	72.2	72.1	68.9	64.2	64.8	63.3	59.8	59.7	61.2	61.7	61.1	60.5	59.3	59.1	57.8	51.4
630	71.2	69.6	70.9	69.6	69.4	66.3	61.7	62.1	61.3	57.2	57.3	58.8	59.4	58.8	58.2	57.0	56.7	55.5	49.1
800	68.6	66.9	68.2	66.8	66.7	63.6	59.1	59.4	58.6	54.6	54.8	56.3	57.1	56.5	55.8	54.6	54.3	53.1	46.8
1000	65.8	64.1	65.4	64.0	63.7	60.8	56.4	56.4	55.9	51.9	52.2	53.8	54.8	54.1	53.4	52.1	51.7	50.7	44.3
1250	62.9	61.2	62.5	60.9	60.7	57.8	53.4	53.3	52.9	49.0	49.4	51.1	52.3	51.8	50.7	49.5	49.0	48.1	41.7
1600	59.9	58.2	59.4	57.7	57.4	54.7	50.4	50.0	49.8	45.9	46.5	48.3	49.6	48.9	48.0	46.7	46.3	45.5	39.0
2000	56.7	55.0	56.2	54.4	54.0	51.4	47.2	46.6	46.6	42.7	43.4	45.4	46.9	46.2	45.2	43.9	43.4	42.7	36.2
2500	53.4	51.6	52.8	50.8	50.4	48.0	43.7	42.8	43.1	39.2	40.0	42.2	43.8	43.0	42.0	40.7	40.2	39.6	33.1
3150	49.8	48.0	49.1	47.0	46.6	44.3	39.9	38.8	39.4	35.4	36.2	38.6	40.4	39.5	38.6	37.3	36.8	36.1	29.8
4000	45.5	44.2	44.9	42.7	42.1	39.9	35.5	34.0	35.0	30.7	31.8	34.3	36.4	35.6	34.6	33.2	32.7	32.0	25.8
5000	41.6	39.9	40.3	38.0	37.2	35.2	30.7	28.9	30.2	25.8	27.1	29.5	32.0	31.2	30.2	28.7	28.2	27.6	21.3
6300	36.9	35.3	35.3	32.9	31.9	30.0	25.6	23.6	25.2	20.7	22.2	24.8	27.4	26.7	25.6	24.3	23.5	22.9	16.7
8000	32.1	30.8	30.3	27.8	26.6	24.9	20.7	18.7	20.6	16.3	18.2	20.8	23.7	22.9	21.5	19.8	19.3	19.0	12.8
10000	27.0	26.0	25.0	22.3	21.0	19.5	15.6	13.7	15.8	11.7	13.9	16.5	19.6	18.9	17.1	15.3	14.9	14.8	8.7
12500	21.5	20.8	19.6	16.8	15.5	14.2	10.7	9.2	11.2	7.5	9.8	12.3	15.3	14.7	12.6	10.9	10.4	10.5	4.4
16000	15.6	15.3	13.9	10.9	9.8	8.7	5.7	4.7	6.4	3.1	5.4	7.8	10.7	10.0	7.7	6.1	5.7	5.8	1.4
20000	9.2	9.2	7.9	4.8	3.9	2.9	.7	.2	1.4	.9	3.0	5.6	5.1	2.6	1.2	.7	.7	.9	.9
25000	2.4	2.7	1.6																

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-5A,B AIRCRAFT  
 ENG. J55-GE-21  
 GROUND RUNUP  
 OPERATIONS: IDLE, 50% RPM, F-5A,B SINGLE ENGINE ESTIMATED NOISE LEVELS RE F-5E LEVELS -0.9 DB  
 METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.9 DB  
 IDENTIFICATION: OMEGA 8.2 TEST 74-509-039 RUN 01 AIRCRAFT CODE 509 OPERATION CODE 02013 PROFILE VERSION A 13 APR 76 PAGE J1

ANGLE	0	10	20	30	40	50	60	70	80	90	100
A											
N											
G											
L											
E											
I											
N											
D											
E											
G											
R											
E											
E											
S											
100											
110											
120											
130											
140											
150											
160											
170											
180											

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 509																			
F-5A,B AIRCRAFT ( ENG RUNUP 80% RPM, F-5A,B ) TEMP = 59 F ) OPERATION CODE 02019																			
ENG. J85-GE-21 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN Hg ) PROFILE VERSION A																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 13 APR 76																			
( RE F-5E LEVELS -0.9 DB ) DELTA N = -3.0 DB ) PAGE C2																			
BAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	61	60	62	63	63	63	63	63	62	64	64	66	71	73	77	78	77	71	51
63	62	64	66	67	66	65	65	60	65	66	66	67	70	74	78	79	79	68	48
80	65	66	66	67	65	68	68	67	66	68	68	69	73	77	80	81	80	63	43
100	67	69	68	68	67	69	67	68	69	71	71	72	74	78	82	84	81	62	42
125	71	72	72	72	71	72	71	71	73	74	73	74	76	80	84	87	82	59	39
160	79	78	79	79	77	79	78	78	80	79	80	81	82	82	84	87	83	59	39
200	75	75	76	77	76	77	76	77	77	77	78	80	81	81	80	86	82	57	37
250	75	77	79	80	79	78	78	77	78	77	76	77	79	81	80	82	78	56	36
315	74	76	77	76	77	75	76	75	75	75	74	76	79	80	80	80	76	52	32
400	74	76	75	76	75	72	74	72	74	72	72	74	76	77	77	76	73	50	30
500	70	70	72	71	70	67	68	69	70	69	71	71	73	75	75	75	71	48	28
630	72	71	72	72	71	67	68	69	70	70	66	69	71	73	73	73	69	47	27
800	72	70	70	71	69	66	67	68	69	68	66	67	69	71	73	71	66	45	25
1000	69	69	69	68	65	65	65	66	68	67	64	65	68	70	72	70	64	42	22
1250	69	69	69	68	65	64	65	67	66	66	61	62	63	69	69	66	61	39	19
1600	72	71	71	69	58	67	64	67	66	68	61	64	63	69	68	66	60	40	20
2000	76	75	74	72	70	70	65	67	66	67	60	64	63	68	66	64	59	40	20
2500	76	75	73	72	70	68	64	67	65	66	59	64	61	67	64	62	59	39	19
3150	72	71	70	70	68	67	63	67	66	67	60	64	60	64	62	62	58	38	18
4000	71	71	70	70	67	67	63	65	65	65	56	62	58	63	60	60	56	35	15
5000	75	76	75	73	72	70	65	66	66	63	56	59	53	57	59	57	56	36	16
6300	74	74	73	73	71	70	65	66	65	63	54	57	51	57	57	56	55	33	13
8000	69	68	67	66	64	62	58	53	59	59	49	55	48	54	54	53	50	27	7
10000	69	70	69	67	65	63	58	59	59	57	49	54	46	51	54	50	49	21	1
OVERALL	87	87	87	87	86	85	85	85	80	85	85	86	88	90	91	94	90	74	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	101.3	101.3	101.1	100.0	98.3	97.3	94.3	95.8	95.8	95.9	92.3	94.6	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	99.1	99.0	98.7	97.7	95.9	94.9	92.1	93.5	93.5	93.6	90.1	92.4	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	96.7	96.5	96.3	95.3	93.5	92.5	89.9	91.2	91.2	91.3	87.9	90.2	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	94.3	94.0	93.8	92.7	91.0	90.0	87.5	88.8	88.8	88.9	85.6	87.9	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	91.8	91.3	91.1	90.1	88.3	87.3	85.0	86.2	86.2	86.4	83.0	85.3	86.0	88.6	89.0	90.4	86.3	62.8	34.5
630	89.1	88.6	88.2	87.4	85.6	84.4	82.3	83.5	83.5	83.7	80.3	82.6	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	86.3	85.8	85.4	84.6	82.8	81.5	79.6	80.6	80.7	80.8	77.5	79.9	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	83.2	82.8	82.4	81.5	79.8	78.5	76.8	77.6	77.7	77.8	74.6	77.2	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.0	79.6	79.1	78.3	76.5	75.4	73.7	74.4	74.8	74.6	71.6	74.0	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1600	78.6	78.1	78.0	77.4	75.8	74.9	73.1	73.0	73.0	73.0	70.0	72.3	73.3	74.7	75.2	75.3	71.1	46.1	
2000	73.0	72.3	72.1	71.1	69.7	68.3	67.5	67.5	68.5	67.8	65.4	67.8	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.0	68.3	68.2	67.1	65.6	64.3	63.4	63.5	64.5	63.7	61.4	63.8	65.2	67.6	68.1	67.7	63.7	35.1	
3150	64.6	63.8	63.8	62.6	61.1	59.7	58.8	58.9	60.0	59.2	56.8	59.3	60.7	63.2	63.8	63.5	59.0	26.2	
4000	59.7	58.9	58.8	57.0	56.0	54.5	53.6	54.1	54.8	54.4	51.3	54.1	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.1	53.3	53.2	51.9	50.2	48.1	47.4	48.3	49.2	48.3	45.6	48.5	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.5	46.4	46.4	45.9	44.4	41.2	41.0	42.5	43.3	42.9	39.5	42.5	44.3	47.3	48.4	47.6	42.0		
8000	40.6	39.8	40.8	40.0	38.2	35.5	35.2	37.0	38.0	37.2	34.3	37.5	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	6.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1					

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION:																		
	( F-5A,3 AIRCRAFT ) ( ENG RUNUP 80% KPM, F-5A,3 ) ( SINGLE ENGINE ) ( ESTIMATED NOISE LEVELS ) ( RE F-5E LEVELS -0.9 DB )																		
DISTANCE (FEET)	METEOROLOGY:																		
	( TEMP = 59 F ) ( BAR PRESS = 29.92 IN HG ) ( REL HUMID = 70 % ) ( DELTA N = -3.0 DB )																		
IDENTIFICATION:																			
( OMEGA 8.2 ) ( TEST 74-509-039 ) ( RUN 02 ) ( AIRCRAFT CODE 509 ) ( OPERATION CODE 02019 ) ( PROFILE VERSION A ) ( 13 APR 76 ) ( PAGE 02 )																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	102.3	102.5	102.3	101.5	99.6	98.6	95.0	96.4	96.8	96.4	93.0	95.2	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	100.0	100.1	100.0	99.1	97.3	96.3	92.8	94.2	94.6	94.2	90.9	93.0	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	97.7	97.7	97.5	96.7	94.9	93.8	90.6	91.8	92.2	91.9	88.7	90.8	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	95.2	95.1	95.0	94.2	92.3	91.3	88.3	89.4	89.8	89.4	86.3	88.5	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	92.7	92.5	92.3	91.5	89.7	88.6	85.8	86.9	87.3	86.9	83.8	86.0	86.0	88.6	89.0	90.4	85.3	62.2	34.5
630	90.0	89.8	89.4	88.8	86.9	85.7	83.0	84.2	84.6	84.2	81.1	83.2	83.6	86.1	86.6	87.8	81.6	60.0	28.1
800	87.2	87.0	86.6	86.0	84.1	82.8	80.3	81.3	81.7	81.4	78.2	80.5	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	84.2	84.0	83.5	83.0	81.1	79.9	77.5	78.3	78.8	78.4	75.4	77.8	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.9	80.7	80.3	79.7	77.9	76.7	74.5	75.1	75.8	75.1	72.4	74.7	75.4	77.8	78.3	78.8	74.5	49.9	3.4
1600	77.5	77.3	77.0	76.3	74.5	73.3	71.4	71.7	72.8	71.6	69.4	71.6	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.9	73.5	73.4	72.5	71.0	69.7	68.2	68.2	69.2	68.3	66.2	68.4	69.1	71.6	72.0	71.6	67.8	41.5	
2500	69.9	69.5	69.4	68.5	67.0	65.6	64.2	64.2	65.6	64.3	62.2	64.4	65.2	67.6	68.1	67.7	63.7	35.1	
3150	65.5	65.0	65.0	64.0	62.5	61.0	59.6	59.6	61.0	59.8	57.5	59.9	60.7	63.2	63.8	63.5	59.0	26.2	
4000	60.4	59.8	59.8	58.7	57.1	55.5	54.2	54.7	55.7	54.8	51.9	54.5	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.7	54.0	53.9	52.8	51.0	48.9	47.8	48.7	49.8	49.1	46.1	48.9	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.9	46.9	46.9	46.5	44.9	41.8	41.3	42.7	43.8	43.1	39.8	42.8	44.3	47.3	48.4	47.6	42.0		
9000	41.0	40.1	41.0	40.9	39.0	35.7	35.4	37.1	38.2	37.3	34.5	37.7	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	6.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1	.3				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATIONS:																		
	( F-5A,B AIRCRAFT ) ( ENG. J05-GE-21 ) ( GROUND RUNUP ) ( RE F-5E LEVELS -0.9 UB ) ( ESTIMATED NOISE LEVELS ) ( SINGLE ENGINE ) ( ENG RUNUP 80% RPM, F-5A,B ) ( METEOROLOGY: ) ( TEMP = 59 F ) ( BAR PRESS = 29.92 IN HG ) ( REL HUMID = 70 % ) ( DELTA N = -3.0 DB )																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	87.2	86.7	86.4	85.5	83.8	82.6	80.6	81.7	81.9	81.6	78.6	80.9	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	84.9	84.4	84.1	83.2	81.6	80.3	78.5	79.5	79.7	79.5	76.6	78.8	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	82.5	82.1	81.8	81.0	79.3	78.1	76.3	77.3	77.6	77.3	74.5	76.7	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	80.1	79.7	79.4	78.6	77.0	75.7	74.1	75.1	75.3	75.1	72.4	74.5	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	77.7	77.2	77.0	76.2	74.6	73.3	71.8	72.7	73.1	72.8	70.1	72.3	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	75.1	74.6	74.5	73.7	72.1	70.8	69.5	70.3	70.7	70.4	67.8	70.0	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	72.5	72.0	71.9	71.1	69.6	68.2	67.0	67.9	68.2	68.0	65.4	67.6	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	69.8	69.3	69.2	68.4	66.9	65.5	64.5	65.3	65.7	65.5	62.9	65.1	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	66.9	66.4	66.3	65.6	64.2	62.6	61.8	62.6	63.1	62.8	60.3	62.5	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.0	63.5	63.4	62.7	61.3	59.6	59.1	59.8	60.3	60.0	57.5	59.7	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	60.9	60.4	60.4	59.8	58.3	56.5	56.2	56.8	57.5	57.1	54.6	56.8	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	57.5	57.0	57.0	56.5	55.0	53.1	52.9	53.6	54.3	53.9	51.4	53.5	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	53.9	53.3	53.5	52.9	51.4	49.4	49.3	50.1	50.8	50.4	47.8	50.0	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.0	49.3	49.5	49.0	47.5	45.3	45.4	46.2	47.0	46.6	43.9	46.1	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	45.6	44.9	45.2	44.7	43.1	40.9	41.1	42.0	42.8	42.4	39.6	41.9	43.6	45.8	47.0	45.6	41.2	19.2	
6300	40.9	40.2	40.5	40.1	38.5	36.2	36.5	37.5	38.4	38.0	35.1	37.3	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.6	36.0	36.4	36.1	34.6	32.2	32.7	33.5	34.5	34.0	31.4	33.6	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.6	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.0	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	13.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	88.1	87.9	87.6	86.9	85.1	83.9	81.3	82.3	83.0	82.2	79.4	81.5	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	85.8	85.6	85.4	84.7	82.9	81.7	79.2	80.2	80.8	80.0	77.3	79.4	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	83.5	83.3	83.0	82.4	80.6	79.4	77.0	78.0	78.6	77.9	75.2	77.3	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	81.1	80.9	80.7	80.0	78.3	77.1	74.8	75.7	76.4	75.6	73.1	75.1	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	78.6	78.4	78.2	77.6	75.9	74.6	72.5	73.4	74.1	73.4	70.9	72.9	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	76.1	75.8	75.7	75.1	73.5	72.1	70.2	71.0	71.7	71.0	68.6	70.6	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	73.4	73.2	73.1	72.5	70.9	69.5	67.7	68.5	69.3	68.6	66.2	68.2	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	70.7	70.5	70.4	69.9	68.3	66.8	65.2	66.0	66.8	66.0	63.7	65.7	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	67.9	67.6	67.5	67.1	65.5	64.0	62.6	63.3	64.1	63.4	61.0	63.1	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.9	64.6	64.6	64.2	62.6	61.0	59.8	60.4	61.4	60.6	58.3	60.3	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	61.8	61.6	61.6	61.2	59.7	57.9	56.9	57.5	58.5	57.7	55.4	57.5	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	58.4	58.1	58.3	57.9	56.4	54.4	53.6	54.2	55.3	54.5	52.1	54.2	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	54.8	54.5	54.7	54.3	52.8	50.7	50.0	50.7	51.9	51.0	48.5	50.6	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.7	50.3	50.5	50.1	48.6	46.4	45.9	46.8	47.9	47.1	44.5	46.6	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	46.2	45.6	45.9	45.5	43.9	41.7	41.5	42.4	43.5	42.8	40.0	42.2	43.6	45.8	47.0	45.6	41.2	19.2	
6300	41.3	40.7	41.0	40.7	39.0	36.7	36.8	37.8	38.8	38.2	35.4	37.6	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.7	36.2	36.6	36.4	34.9	32.4	32.9	33.7	34.7	34.1	31.6	33.8	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.6	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.0	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-509-039  
 RUN 02  
 AIRCRAFT CODE 509  
 OPERATION CODE 02019  
 PROFILE VERSION A  
 13 APR 76  
 PAGE J2

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: F-5A, B AIRCRAFT  
 ENG. J85-GE-21  
 GROUND RUNUP

OPERATION: ENG RUNUP 80% RPM, F-5A, B  
 SINGLE ENGINE  
 ESTIMATED NOISE LEVELS  
 RE F-5E LEVELS -0.9 DB

METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 77 %  
 DELTA N = -3.0 DB

P=PMLT A=AL T=ALT

ANGLE	10	20	30	40	50	60	70	80	90	100	110
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 509																			
F-5A,B AIRCRAFT ( MIL PWR, 100% RPM, F-5A,B ) TEMP = 59 F ) OPERATION CODE 92004																			
ENG. J85-GE-21 ( SINGLE ENGINE ) BAP PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 13 APR 76																			
( RE F-5E LEVELS -0.9 DB ) DELTA N = -3.0 DB ) PAGE C3																			
BAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	76	75	74	77	77	77	79	80	80	82	82	84	88	94	99	100	97	83	63
53	77	77	79	77	79	80	80	80	82	83	83	85	92	96	101	102	98	81	61
80	50	79	79	80	79	81	82	82	83	84	84	88	94	99	104	104	99	77	57
100	82	81	81	83	81	83	84	84	85	88	86	86	90	102	108	105	100	77	57
125	83	83	84	84	84	86	85	86	87	89	89	93	98	104	110	106	102	79	59
160	85	85	85	86	83	86	86	87	88	89	92	96	100	103	109	109	102	79	59
200	87	87	87	86	86	86	87	87	89	90	93	98	102	103	105	107	102	75	55
250	89	89	88	88	88	88	88	88	90	91	93	96	103	105	103	107	103	76	56
315	90	92	92	89	89	87	88	89	91	92	94	98	103	106	106	107	104	75	55
400	91	93	92	91	90	88	88	88	92	92	93	97	104	103	106	107	103	75	56
500	90	92	93	92	89	86	88	88	92	91	93	96	103	104	105	106	101	76	56
630	93	92	94	94	91	87	89	89	93	93	92	96	102	103	106	105	99	75	55
800	94	92	93	93	89	86	90	89	92	92	90	96	99	101	103	104	97	74	54
1000	96	97	98	96	93	88	91	89	92	92	90	95	98	99	101	102	95	72	52
1250	93	94	96	97	95	91	93	91	92	92	88	93	95	96	99	101	93	71	51
1600	90	92	93	94	93	92	96	94	94	94	89	93	95	96	97	100	92	70	50
2000	90	90	93	93	91	91	94	96	96	95	90	93	95	95	95	98	91	68	48
2500	88	87	90	90	90	88	90	94	95	93	88	92	94	93	94	97	89	67	47
3150	86	85	88	89	89	86	89	93	93	93	87	91	93	91	92	94	87	65	45
4000	85	84	86	87	87	85	89	92	93	93	87	90	93	90	91	94	87	65	45
5000	81	79	81	82	82	80	84	87	89	89	83	87	90	87	89	93	85	61	41
6300	82	78	81	81	81	79	83	85	87	87	81	85	87	86	85	90	81	56	36
8000	79	76	78	79	79	77	81	84	85	86	79	84	87	85	84	89	81	53	33
10000	73	71	73	75	75	72	77	81	81	83	75	83	85	83	82	86	78	54	34
OVERALL	103	107	105	104	102	100	103	103	105	105	103	108	112	114	117	117	112	90	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE											METEOROLOGY:			IDENTIFICATION:					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
200	115.2	115.2	116.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5	
250	113.0	113.1	114.7	114.8	113.8	112.2	115.0	116.6	119.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3	
315	110.7	110.8	112.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9	
400	108.4	108.5	110.1	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5	
500	105.9	106.1	107.8	107.8	106.9	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0	
630	103.4	103.7	105.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4	
800	100.8	101.1	102.7	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	109.1	82.9	61.7	
1000	98.1	98.3	100.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9	
1250	95.2	95.5	97.0	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8	
1600	92.3	92.5	93.9	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3	
2000	89.1	89.4	90.7	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7	
2500	85.7	86.0	87.3	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3	
3150	82.0	82.3	83.6	83.5	81.7	80.3	83.1	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3	
4000	77.9	78.3	79.6	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9	
5000	73.5	73.9	75.2	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	26.0	
6300	68.8	69.2	70.5	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.8	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0	
8000	64.1	64.6	65.9	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1	
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2		
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2		
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.5	47.6	52.3	59.6	60.2	61.9	63.1	57.4	23.1		
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.9	54.7	56.5	57.7	51.9	12.1		
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.9	46.5	48.4	50.3	51.6	45.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-5A,B AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG, J85-GE-21	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = -3.0 DB																			
	ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	115.2	116.4	117.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5	
250	113.0	114.2	115.8	114.9	113.8	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3	
315	110.7	111.9	113.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	119.9	119.7	121.5	122.9	117.3	92.8	71.9	
400	108.4	109.6	111.2	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5	
500	105.9	107.3	108.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0	
630	103.4	104.8	106.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4	
800	100.8	102.2	103.8	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7	
1000	98.1	99.5	101.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9	
1250	95.2	96.6	98.1	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	109.2	102.8	77.4	55.8	
1600	92.3	93.6	95.0	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3	
2000	89.1	90.5	91.8	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7	
2500	85.7	87.1	88.4	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3	
3150	82.0	83.5	84.7	83.5	81.7	80.3	83.1	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3	
4000	77.9	79.2	80.4	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.3	33.9	
5000	73.5	74.6	75.9	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	26.0	
6300	68.6	69.7	71.0	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0	
8000	64.1	64.8	66.1	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1	
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	58.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2		
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2		
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.5	47.6	52.3	58.6	60.2	61.9	63.1	57.4	23.3		
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.3	54.7	56.5	57.7	51.9	12.1		
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.9	46.5	48.4	50.3	51.6	45.5	.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D9A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.1	104.4	106.0	105.8	104.0	101.8	104.7	105.6	106.9	106.2	102.5	106.8	110.7	111.5	113.2	114.5	106.7	84.3	64.3
250	101.9	102.3	103.9	103.7	101.9	99.6	102.5	103.4	104.7	104.0	100.3	104.6	108.6	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	100.2	101.8	101.6	99.7	97.4	100.3	101.1	102.5	101.9	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	98.0	99.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	95.8	97.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.3	102.1	103.0	104.7	106.0	100.2	75.8	55.8
630	93.1	93.6	95.1	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.6	53.6
800	90.6	91.3	92.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	88.9	90.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	86.4	87.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	83.8	85.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	81.1	82.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	78.2	79.6	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	75.1	76.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	71.6	73.0	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	67.7	69.1	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.4	64.9	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.1	60.5	59.8	57.0	53.7	56.3	55.1	57.8	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.0	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	0.0
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	0.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATIONS					METEOROLOGY					IDENTIFICATION								
	MIL RPM, F-5A,B	100% RPM, F-5A,B	TEMP	BAR PRESS = 29.92 IN HG	REL HUMID = 73 %	DELTA = -3.0 DB	59 F	OPERATION CODE 02004	OMEGA 8.2	TEST 74-509-039	AIRCRAFT CODE 509	PROFILE VERSION A	13 APR 76	PAGE 03	PAGE 03	PAGE 03	PAGE 03		
ENG. J85-GE-21	SINGLE ENGINE	ESTIMATED NOISE LEVELS	RC F-5E LEVELS -0.9 DB	ANGLE (DEGREES)	90	100	110	120	130	140	150	160	170	180	170	160	150		
GROUND RUNUP	RC F-5E LEVELS -0.9 DB	ANGLE (DEGREES)	90	100	110	120	130	140	150	160	170	180	170	160	170	160	150	140	
200	104.1	105.6	107.1	108.6	110.1	111.6	113.1	114.6	116.1	117.6	119.1	120.6	122.1	123.6	125.1	126.6	128.1	129.6	131.1
250	101.9	103.5	105.0	106.5	108.0	109.5	111.0	112.5	114.0	115.5	117.0	118.5	120.0	121.5	123.0	124.5	126.0	127.5	129.0
315	99.8	101.3	102.8	104.3	105.8	107.3	108.8	110.3	111.8	113.3	114.8	116.3	117.8	119.3	120.8	122.3	123.8	125.3	126.8
400	97.6	99.2	100.6	102.0	103.4	104.8	106.2	107.6	109.0	110.4	111.8	113.2	114.6	116.0	117.4	118.8	120.2	121.6	123.0
500	95.4	97.0	98.4	99.8	101.2	102.6	104.0	105.4	106.8	108.2	109.6	111.0	112.4	113.8	115.2	116.6	118.0	119.4	120.8
630	93.1	94.7	96.2	97.6	99.0	100.4	101.8	103.2	104.6	106.0	107.4	108.8	110.2	111.6	113.0	114.4	115.8	117.2	118.6
800	90.8	92.4	93.8	95.2	96.6	98.0	99.4	100.8	102.2	103.6	105.0	106.4	107.8	109.2	110.6	112.0	113.4	114.8	116.2
1000	88.4	90.0	91.4	92.8	94.2	95.6	97.0	98.4	99.8	101.2	102.6	104.0	105.4	106.8	108.2	109.6	111.0	112.4	113.8
1250	85.9	87.5	89.0	90.4	91.8	93.2	94.6	96.0	97.4	98.8	100.2	101.6	103.0	104.4	105.8	107.2	108.6	110.0	111.4
1600	83.4	85.0	86.3	87.6	88.9	90.2	91.5	92.8	94.1	95.4	96.7	98.0	99.3	100.6	101.9	103.2	104.5	105.8	107.1
2000	80.7	82.3	83.6	84.9	86.1	87.4	88.6	89.8	91.0	92.2	93.4	94.6	95.8	97.0	98.2	99.4	100.6	101.8	103.0
2500	77.8	79.3	80.7	82.0	83.2	84.4	85.6	86.8	88.0	89.2	90.4	91.6	92.8	94.0	95.2	96.4	97.6	98.8	100.0
3150	74.7	76.2	77.5	78.7	80.0	81.2	82.4	83.6	84.8	86.0	87.2	88.4	89.6	90.8	92.0	93.2	94.4	95.6	96.8
4000	71.3	72.5	73.9	75.1	76.3	77.5	78.7	80.0	81.2	82.4	83.6	84.8	86.0	87.2	88.4	89.6	90.8	92.0	93.2
5000	67.4	68.4	69.8	70.8	71.8	72.8	73.8	74.8	75.8	76.8	77.8	78.8	79.8	80.8	81.8	82.8	83.8	84.8	85.8
6300	63.2	63.9	65.3	66.2	67.1	68.0	68.9	69.8	70.7	71.6	72.5	73.4	74.3	75.2	76.1	77.0	77.9	78.8	79.7
8000	59.0	59.4	60.7	61.5	62.2	63.0	63.7	64.5	65.1	65.8	66.5	67.2	67.9	68.6	69.3	70.0	70.7	71.4	72.1
10000	54.3	54.4	55.7	56.9	57.8	58.7	59.5	60.3	61.0	61.7	62.4	63.1	63.8	64.5	65.2	65.9	66.6	67.3	68.0
12500	49.1	49.2	50.5	51.2	51.9	52.6	53.3	54.0	54.7	55.4	56.1	56.8	57.5	58.2	58.9	59.6	60.3	61.0	61.7
16000	43.3	43.4	44.6	45.3	46.0	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53.0	53.7	54.4	55.1	55.8
20000	37.0	37.2	38.3	39.4	40.5	41.6	42.7	43.8	44.9	46.0	47.1	48.2	49.3	50.4	51.5	52.6	53.7	54.8	55.9
25000	30.0	30.5	31.4	32.5	33.5	34.7	35.7	36.8	37.8	38.9	40.0	41.0	42.1	43.1	44.2	45.2	46.3	47.3	48.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 509																			
F-5A,B AIRCRAFT ( AFTERBURNER POWER, F-5A,B ) TEMP = 59 F ( ) OPERATION CODE 02003																			
ENG. J05-GE-21 ( SINGLE ENGINE ) BAP PRESS = 29.92 IN HG ( ) PROFILE VERSION A																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ( ) 13 APR 76																			
( RE F-5E LEVELS -0.9 DB ) DELTA N = -3.0 DB ( ) PAGE C4																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	84	84	84	84	85	85	85	86	87	88	89	95	102	106	107	106	101	83	63
63	86	86	86	86	87	86	87	89	89	91	92	97	104	108	109	106	101	80	60
80	89	88	87	88	89	89	89	91	90	91	95	100	107	111	110	108	101	80	60
100	90	89	89	90	91	90	91	93	92	93	96	104	111	115	113	111	103	81	61
125	92	92	91	92	92	94	93	94	95	96	99	104	113	117	116	113	105	82	62
160	92	92	93	92	91	93	93	94	95	97	101	104	112	117	116	114	105	87	67
200	92	92	92	91	91	92	93	94	94	96	101	107	111	114	114	113	104	79	59
250	94	94	94	93	93	93	94	94	95	96	101	108	113	112	113	112	103	80	60
315	94	95	94	94	94	92	94	95	97	97	102	107	114	114	112	110	101	79	59
400	93	96	97	95	94	91	93	94	96	97	101	107	112	112	112	108	100	78	58
500	93	95	96	94	93	90	92	94	36	97	100	105	111	110	110	106	98	78	58
630	95	95	96	96	93	90	93	95	97	97	100	104	110	109	108	104	96	78	58
800	93	94	94	95	92	90	93	95	96	97	98	102	108	106	106	102	95	75	55
1000	91	93	95	94	92	90	93	94	96	97	96	101	106	105	105	101	93	73	53
1250	92	93	95	94	94	90	93	94	95	97	95	100	106	104	103	95	93	71	51
1600	93	94	94	95	95	92	95	96	96	97	95	99	105	102	103	98	92	72	52
2000	92	93	94	94	94	91	97	97	98	98	95	97	104	100	101	97	90	69	49
2500	89	88	88	90	91	88	94	97	97	96	94	95	103	98	100	96	88	70	50
3150	87	86	88	89	89	86	92	94	96	94	92	93	102	96	98	93	85	68	48
4000	87	87	88	90	89	87	93	95	96	96	91	92	103	95	97	92	87	68	48
5000	83	82	84	85	86	83	90	93	93	93	88	90	102	94	96	90	79	65	45
6300	82	80	82	83	83	81	88	90	91	91	86	87	100	90	94	87	75	60	40
8000	79	77	79	80	80	78	86	88	89	91	85	87	100	91	93	86	74	55	35
10000	75	74	76	77	78	75	83	87	87	89	85	85	101	91	91	87	71	51	31
OVERALL	105	105	106	106	105	104	106	108	109	109	111	116	123	125	124	121	113	92	72

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: PERCEIVED NOISE LEVEL (PNL)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													IDENTIFICATION:							
DISTANCE (FEET)	ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	OMEGA 8.2	TEST 74-509-039
		NOISE SOURCE/SUBJECT:													METEOROLOGY:		AIRCRAFT CODE 509		OPERATION CODE 02003			
		( OPERATIONS )													TEMP = 59 F		PROFILE VERSION A					
		( AFTERBURNER POWER, F=PA,B )													BAR PRESS =29.92 IN HG		13 APR 76					
		( SINGLE ENGINE )													REL HUMID = 70 %		PAGE 04					
		( ESTIMATED NOISE LEVELS )													DELTA N = -3.0 DB							
		( RE F-5E LEVELS -0.9 DB )																				
200	117.3	117.8	118.8	119.0	118.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	100.4	79.5			
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.9	126.5	118.2	98.3	77.3			
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.6	118.9	121.6	128.9	127.8	127.5	124.4	116.1	96.1	74.9			
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.5	126.7	125.6	125.3	122.1	113.9	93.8	72.5			
500	108.1	108.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	91.3	70.0			
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	88.8	67.3			
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	86.0	64.5			
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	83.1	61.7			
1250	97.3	98.0	99.0	99.1	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	80.0	58.7			
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	77.0	55.3			
2000	91.5	92.4	92.5	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	73.8	51.8			
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	70.0	47.2			
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	66.0	42.5			
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	61.5	36.4			
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	75.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.3	29.3			
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	50.9	19.7			
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.2	76.9	68.9	46.2	11.2			
10000	61.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7			
12500	55.1	55.9	56.7	56.5	54.8	51.3	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4				
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3				
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1				
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8				

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PN08)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	OPERATION																			
	AFTERBURNER POWER, F-5A,B																			
F-5A,B AIRCRAFT	SINGLE ENGINE																			
	ESTIMATED NOISE LEVELS																			
ENG. J05-GE-21	RE F-5E LEVELS -0.9 DB																			
	DELTA N = -3.0 DB																			
GROUND RUNUP	METEOROLOGY:																			
	TEMP = 59 F																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-509-039																				
RUN 04																				
AIRCRAFT CODE 509																				
OPERATION CODE 02003																				
PROFILE VERSION A																				
13 APR 76																				
PAGE E4																				
ANGLE (DEGREES)																				
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
(FEET)																				
200	117.3	117.0	116.8	119.0	118.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	101.5	80.5	
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	118.2	99.3	78.3	
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	97.1	76.0	
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	94.3	73.6	
500	108.1	109.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	92.4	71.0	
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	89.8	68.3	
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	87.0	65.5	
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	84.1	62.7	
1250	97.3	98.0	99.0	99.3	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	81.0	59.7	
1600	94.2	94.9	95.0	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	78.0	56.4	
2000	90.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	74.3	52.8	
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	71.0	48.3	
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	67.0	43.5	
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	62.3	37.2	
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.9	29.9	
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	51.3	20.1	
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	46.4	11.4	
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7	
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4		
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3		
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1		
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8		

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	108.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	86.6	66.6
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.6	116.2	112.7	104.8	84.5	64.5
315	100.1	101.0	102.0	102.1	101.1	98.4	102.6	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.8	82.4	62.4
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.0	108.5	100.6	80.2	60.2
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	98.5	78.0	58.0
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	75.8	55.8
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	73.4	53.4
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	71.0	51.0
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	68.5	48.5
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	65.8	45.8
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	63.1	43.1
2500	77.7	78.8	79.8	79.6	78.3	75.4	79.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	60.1	40.1
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.0	90.0	89.0	88.5	84.5	77.0	56.8	36.8
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	53.2	33.2
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.1	29.1
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.8	76.6	76.1	72.0	64.6	44.7	24.7
8000	58.2	59.3	60.3	60.2	58.3	55.0	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	40.9	20.9
10000	53.8	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	36.8	16.8
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.0	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OASL)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY																			
	OPERATION																			
F-5A,B AIRCRAFT	AFTERBURNER POWER, F-5A,3																			
ENG. J45-GE-21	SINGLE ENGINE																			
GROUND RUNUP	ESTIMATED NOISE LEVELS																			
	RE F-5A LEVELS -0.9 DB																			
	DELTA N = -3.0 DB																			
	PAGE 54																			
IDENTIFICATION:																				
OMEGA A.2																				
TEST 74-509-039																				
RUN 04																				
AIRCRAFT CODE 509																				
OPERATION CODE 02003																				
PROFILE VERSION A																				
13 APR 76																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	109.5	109.4	109.7	109.2	113.4	123.0	118.6	116.3	114.8	106.9	87.6	67.6	
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.5	116.2	112.7	104.8	85.5	65.5	
315	100.1	101.0	102.0	102.1	101.1	98.4	102.0	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.6	83.4	63.4	
400	97.9	98.8	99.8	99.9	98.9	95.1	100.3	101.7	102.7	102.8	102.8	107.1	113.5	112.4	112.0	104.5	100.6	81.3	61.3	
500	95.7	96.6	97.6	97.6	96.7	93.3	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	98.5	79.1	59.1	
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	76.8	56.8	
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	74.4	54.4	
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	72.0	52.0	
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	69.5	49.5	
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	66.9	46.9	
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	64.1	44.1	
2500	77.7	78.8	79.8	79.6	78.3	75.4	78.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	61.1	41.1	
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.0	89.0	88.5	84.5	77.0	69.0	57.9	37.9	
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	85.3	85.2	84.7	80.6	73.2	54.0	34.0	
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.7	80.5	76.4	69.0	49.7	29.7	
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.9	76.6	76.1	72.0	64.6	45.1	25.1	
8000	58.2	59.3	60.3	60.2	59.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	41.1	21.1	
10000	53.8	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	36.8	16.8	
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3	
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5	
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3	
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE												
DISTANCE = 250 FEET												
IDENTIFICATION:												
OMEGA 0.2												
TEST 74-509-039												
RUN 04												
AIRCRAFT CODE 509												
OPERATION CODE 02003												
PROFILE VERSION A												
13 APR 76												
PAGE J4												
METEOROLOGY:												
TEMP = 59 F												
BAR PRESS = 29.92 IN HG												
REL HUMID = 70 %												
DELTA N = -3.0 DB												
P=PNLT												
A=AL												
T=ALT												
ANGLE	40	50	60	70	80	90	100	110	120	130	140	
NOISE LEVEL IN PNDB OR DBA												
G	.	.	.	.	.	.	.	.	.	.	.	.
10	.	.	.	.	.	.	.	.	.	.	.	.
20	.	.	.	.	.	.	.	.	.	.	.	.
30	.	.	.	.	.	.	.	.	.	.	.	.
40	.	.	.	.	.	.	.	.	.	.	.	.
50	.	.	.	.	.	.	.	.	.	.	.	.
60	.	.	.	.	.	.	.	.	.	.	.	.
70	.	.	.	.	.	.	.	.	.	.	.	.
80	.	.	.	.	.	.	.	.	.	.	.	.
90	.	.	.	.	.	.	.	.	.	.	.	.
100	.	.	.	.	.	.	.	.	.	.	.	.
110	.	.	.	.	.	.	.	.	.	.	.	.
120	.	.	.	.	.	.	.	.	.	.	.	.
130	.	.	.	.	.	.	.	.	.	.	.	.
140	.	.	.	.	.	.	.	.	.	.	.	.
150	.	.	.	.	.	.	.	.	.	.	.	.
160	.	.	.	.	.	.	.	.	.	.	.	.
170	.	.	.	.	.	.	.	.	.	.	.	.
180	.	.	.	.	.	.	.	.	.	.	.	.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



FREQUENCY	50	60	70	80	90	100	MEAN	SD
50	.	.	.	.	.	.	80.9	2.4
63	.	.	.	.	.	.	80.2	3.7
80	.	.	.	.	.	.	83.6	3.1
100	.	.	.	.	.	.	92.6	1.8
125	.	.	.	.	.	.	98.6	2.7
160	.	.	.	.	.	.	101.2	.9
200	.	.	.	.	.	.	96.9	2.3
250	.	.	.	.	.	.	98.9	1.8
315	.	.	.	.	.	.	101.3	1.8
400	.	.	.	.	.	.	100.4	2.1
500	.	.	.	.	.	.	100.7	.7
630	.	.	.	.	.	.	101.6	.7
800	.	.	.	.	.	.	100.2	1.8
1000	.	.	.	.	.	.	99.6	.9
1250	.	.	.	.	.	.	98.2	.9
1600	.	.	.	.	.	.	96.8	1.4
2000	.	.	.	.	.	.	96.4	1.8
2500	.	.	.	.	.	.	95.2	1.1
3150	.	.	.	.	.	.	94.4	1.1
4000	.	.	.	.	.	.	93.7	1.1
5000	.	.	.	.	.	.	90.8	1.8
6300	.	.	.	.	.	.	90.5	2.2
8000	.	.	.	.	.	.	89.9	2.1
10000	.	.	.	.	.	.	89.3	2.8

F-5E AFTERBURNER POWER 101 % RPM

AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 121.9 PNDB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 121.3 PNDB  
 NO. OF RECORDS = 8 IDENT: 6.6-046-101-230176 ALT = 109.4 DBA AL = 108.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		A/C CODE: 046																								
( OPERATION:		OPS CODE: 101																								
( AFTERBURNER POWER		PROFILE VER: A																								
( 101 % RPM		23 JAN 76																								
( F-5E		PAGE H1																								
( AIRSPEED = 350 KNOTS		DELTA N = 0.0 DB																								
(																										
SLANT		FREQUENCY BAND NUMBER																								
( DISTANCE		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
( (FEET)																										
(	200	95	94	98	107	113	115	111	113	116	115	115	116	115	114	113	113	113	113	113	115	113	116	120	128	
(	250	93	92	96	105	111	113	109	111	114	113	113	114	113	113	112	111	111	111	111	111	112	110	113	117	124
(	315	91	90	94	103	109	111	107	109	112	111	111	112	111	111	110	109	109	108	109	110	108	110	114	120	
(	400	89	88	92	101	107	109	105	107	110	109	109	110	109	107	106	106	106	106	106	107	105	107	110	116	
(	500	87	86	90	98	105	107	103	105	108	107	108	107	108	106	105	104	104	103	103	104	102	104	106	110	
(	630	85	84	88	97	103	105	101	103	106	105	105	106	105	104	103	102	102	101	101	101	99	100	102	104	
(	800	83	82	86	95	101	103	99	101	104	103	103	104	102	102	101	99	99	98	98	97	95	95	96	98	
(	1000	81	80	84	93	99	101	97	99	102	100	101	102	100	100	98	97	96	95	94	94	91	91	90	89	
(	1250	79	78	82	91	97	99	95	97	100	98	99	99	98	97	96	94	93	92	91	89	86	85	82	79	
(	1600	77	76	80	88	95	97	93	95	98	96	96	97	95	95	93	91	90	89	87	85	81	78	74	68	
(	2000	75	74	77	86	92	95	91	92	95	94	94	95	93	92	90	88	87	85	82	79	75	70	63	53	
(	2500	73	72	75	84	90	93	89	90	93	91	91	92	90	89	87	85	83	80	77	73	68	61	50	35	
(	3150	71	70	73	82	88	91	86	88	91	89	89	89	87	86	84	81	79	75	71	65	59	50	35	14	
(	4000	69	68	71	80	86	88	84	86	88	86	86	86	84	83	80	77	74	70	64	56	49	36	16		
(	5000	67	66	69	78	84	86	82	83	86	84	83	83	81	79	76	72	69	63	56	45	36	19			
(	6300	65	64	67	76	82	84	79	81	83	81	80	80	77	75	71	67	62	55	46	32	21				
(	8000	62	61	65	73	79	81	77	78	80	78	77	76	73	70	66	60	55	46	34	16					
(	10000	60	59	62	71	77	79	74	75	77	75	73	72	68	65	60	53	46	35	20						
(	12500	58	57	60	69	74	76	71	72	74	71	69	68	63	59	52	44	35	21	2						
(	16000	56	55	58	66	72	73	68	69	70	67	65	62	57	51	43	33	22	4							
(	20000	53	52	55	64	69	70	65	65	66	62	59	56	49	42	33	20	6								
(	25000	51	50	53	61	66	67	61	61	62	57	53	49	41	32	20	4									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
AIR-TO-GROUND PROPAGATION											
AIRCRAFT: ( OPERATION: ) METEOROLOGY: )											
( AFTERBURNER POWER ) TEMP )											
( 101 % RPM ) REL HUMID = 70 % )											
( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB )											
IDENTIFICATION: )											
OMEGA 6.6 )											
A/C CODE: 046 )											
OPS CODE: 101 )											
PROFILE VEP: A )											
23 JAN 76 )											
PAGE 11 )											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	128.9	129.4	142.4	143.0	125.7	126.6	130.2				
250	126.0	126.6	139.6	140.1	123.9	124.7	128.4				
315	123.1	123.6	136.6	137.1	121.9	122.8	126.4				
400	120.1	120.7	133.4	133.9	119.9	120.8	124.2				
500	117.1	117.7	130.4	130.9	118.0	118.9	122.2				
630	114.3	114.8	127.5	128.0	116.1	117.0	120.3				
800	111.5	112.1	124.5	125.0	114.3	115.2	118.3				
1000	108.8	109.4	121.3	121.9	112.7	113.5	116.2				
1250	106.1	106.7	118.1	118.7	111.0	111.9	114.0				
1600	103.4	104.0	114.8	115.4	109.3	110.2	111.6				
2000	100.7	101.2	111.4	112.0	107.5	108.4	109.2				
2500	97.8	98.4	108.2	108.8	105.7	106.6	107.0				
3150	94.9	95.5	105.0	105.6	103.8	104.6	104.9				
4000	91.9	92.3	101.8	102.2	101.7	102.4	102.5				
5000	88.7	89.0	98.5	98.8	99.5	100.1	100.0				
6300	85.3	85.6	95.1	95.3	97.2	97.5	97.4				
8000	81.8	81.9	91.5	91.6	94.7	94.8	94.7				
10000	78.1	78.1	87.8	87.8	91.9	91.9	91.8				
12500	74.1	74.1	83.9	83.9	89.0	89.0	88.9				
16000	70.0	70.0	79.7	79.7	85.8	85.8	85.6				
20000	65.6	65.6	75.1	75.1	82.5	82.5	82.1				
25000	61.0	61.0	70.5	70.5	78.9	78.9	78.5				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



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200 (-----AFTERBURNER POWER-----ST--E-)
    ( F-5E
250 ( . 101 % RPM . . . . . ST E . )
    ( AIRSPEED = 350 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST E . )
    ( DELTA N = C.0 DB
400 ( . NO. OF RECORDS: 8 . . . . . ST E . )
    ( IDENT: 6.6-046-101-230176-A
500 ( . . . . . ST. E . . . . . )
    (
S 630 ( . . . . . ST E . )
    (
L 800 ( . . . . . ST E . )
    (
N 1000 ( . . . . . ST E . . . . . )
    (
O 1250 ( . . . . . ST E . )
    (
I 1600 ( . . . . . ST E . )
    (
S 2000 ( . . . . . XE . . . . . )
    (
N 500 ( . . . . . SX . . . . . )
    (
E 3150 ( . . . . . SX . . . . . )
    (
I 4000 ( . . . . . X . . . . . )
    (
F 5000 ( . . . . . X . . . . . )
    (
E 6300 ( . . . . . XT . . . . . )
    (
E 8000 ( . . . . . X . . . . . )
    (
T 10000 ( . . . . . X . . . . . )
    (
12500 ( . . . . . X . . . . . )
    (
16000 ( . . . . . X . . . . . )
    (
20000 ( . . . . . X . . . . . )
    (
25000 (-----EX-----NOISE LEVEL IN DB-----ST--E-)
    ( 50 60 70 80 90 100 110 120 130

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 946																							
F-5E		OPS CODE: 101																							
		PROFILE VER: A																							
		23 JAN 76																							
		PAGE L1																							
		METEOROLOGY:																							
		TEMP = 59 F																							
		REL HUMID = 70 %																							
		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	90	89	93	102	108	110	106	108	111	110	110	111	110	109	108	108	108	108	108	108	110	108	111	115	123
250	88	87	91	100	106	108	104	106	109	108	108	108	107	106	106	106	106	106	106	106	107	105	108	112	119
315	86	85	89	98	104	106	102	104	107	106	106	106	106	105	104	104	103	103	103	103	104	105	103	105	115
400	84	83	87	96	102	104	100	102	105	104	104	105	104	104	102	101	101	101	101	101	101	102	100	102	105
500	82	81	85	94	100	102	97	100	103	102	102	103	102	101	100	99	99	99	98	98	99	97	99	101	105
630	80	79	83	92	97	99	95	97	101	100	100	100	101	100	99	98	97	97	96	96	96	94	95	97	99
800	76	77	81	89	94	96	92	95	93	98	96	93	97	97	96	94	94	94	93	93	92	90	90	91	93
1000	76	75	79	86	91	93	89	92	97	95	96	97	95	95	95	93	92	91	90	89	89	86	86	85	84
1250	74	73	76	83	88	90	86	88	94	93	94	94	93	92	91	89	88	87	86	84	84	81	80	77	74
1600	72	70	72	80	85	87	83	85	90	91	91	92	90	90	88	86	85	84	82	80	80	76	73	69	63
2000	69	66	69	76	81	83	79	81	87	89	89	90	88	87	85	83	82	80	77	74	74	70	65	58	48
2500	65	62	64	72	77	79	74	77	83	85	86	87	85	84	82	80	78	75	72	68	63	56	45	30	9
3150	61	58	60	67	72	74	69	72	78	81	83	84	82	81	79	76	74	70	66	60	54	45	30	9	
4000	57	53	54	61	66	68	64	66	73	76	79	81	79	78	75	72	69	65	59	51	44	31	11		
5000	52	48	50	56	61	63	59	61	67	71	75	77	76	74	71	67	64	58	51	40	31	14			
6300	47	44	42	52	57	58	54	56	61	65	70	72	71	70	66	62	57	50	41	27	16				
8000	44	41	43	49	54	56	51	53	60	62	67	62	67	65	61	55	50	41	29	11					
10000	42	39	40	47	52	53	49	50	55	59	63	64	62	60	55	48	41	30	15						
12500	40	37	38	45	49	51	46	47	52	55	59	60	57	54	47	39	30	16							
16000	38	35	36	42	47	48	43	44	48	51	55	54	51	46	38	28	17								
20000	35	32	33	40	44	45	39	40	44	46	49	48	43	37	28	15									
25000	33	30	31	37	41	41	36	36	40	41	43	41	35	27	15										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	OPERATION:	METEOROLOGY:	IDENTIFICATION:
F-5E								AFTERBURNER POWER = 59 F	TEMP	A/C CODE: 046
								101 % RPM	REL HUMID = 70 %	OPS CODE: 101
								AIRSPEED = 350 KNOTS	DELTA N = 0.0 DB	PROFILE VER: A
										23 JAN 76
										PAGE M1
										OMEGA 6.6
200	123.9	124.4	137.4	137.9	120.7	121.5	125.2			
250	121.0	121.5	134.6	135.1	118.9	119.7	123.4			
315	118.1	118.6	131.6	132.1	116.9	117.7	121.4			
400	115.1	115.6	128.3	128.9	114.9	115.8	119.2			
500	112.1	112.7	125.3	125.9	113.0	113.8	117.2			
630	109.3	109.8	122.4	122.9	111.1	111.9	115.2			
800	106.5	107.0	119.3	119.8	109.3	110.1	113.1			
1000	103.7	104.3	116.1	116.6	107.6	108.4	110.9			
1250	101.0	101.5	112.7	113.2	105.8	106.7	108.5			
1600	98.2	98.7	109.1	109.6	104.1	104.9	105.9			
2000	95.4	95.9	105.4	105.9	102.2	103.0	103.2			
2500	92.3	92.8	101.7	102.2	100.1	101.0	100.5			
3150	89.0	89.5	97.7	98.3	97.8	98.6	97.5			
4000	85.3	85.7	93.3	93.7	95.1	95.8	93.9			
5000	81.1	81.4	88.4	88.7	91.9	92.4	89.8			
6300	76.6	76.8	83.2	83.4	88.4	88.7	85.5			
8000	72.3	72.4	78.8	78.9	85.2	85.3	82.0			
10000	67.7	67.7	74.1	74.1	81.6	81.6	78.1			
12500	62.7	62.7	69.0	69.0	77.5	77.5	74.0			
16000	57.2	57.2	63.5	63.5	73.0	73.0	69.5			
20000	51.1	51.1	57.6	57.6	68.0	68.0	64.5			
25000	44.5	44.5	50.9	50.9	62.3	62.3	58.9			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

		AFTERBURNER POWER														
		X											*P			
		60	70	80	90	100	110	120	130	140						
		NOISE LEVEL IN DB														
200	(															
	(															
	(															
250	(															
	(															
	(															
315	(															
	(															
	(															
400	(															
	(															
	(															
500	(															
	(															
	(															
S 630	(															
	(															
	(															
A 800	(															
	(															
	(															
T 1000	(															
	(															
	(															
D 1250	(															
	(															
	(															
S 1600	(															
	(															
	(															
A 2000	(															
	(															
	(															
C 2500	(															
	(															
	(															
E 3150	(															
	(															
	(															
I N 4000	(															
	(															
	(															
F 5000	(															
	(															
	(															
E 6300	(															
	(															
	(															
8000	(															
	(															
	(															
10000	(															
	(															
	(															
12500	(															
	(															
	(															
16000	(															
	(															
	(															
20000	(															
	(															
	(															
25000	(															
	(															

GROUND TO GROUND  
P = PNLTY  
\* = PNL  
+ = ALT  
A = AL

200	(	AFTERBURNER POWER										ST	E
250	(	F-5E	101	%	RPM	.	.	.	.	.	.	ST	E
315	(	AIR	SPEED	=	350	KNOTS	.	.	.	.	.	ST	E
400	(	TEMP	=	59	F	REL	HUMID	=	70	%	.	ST	E
500	(	DELTA	N	=	0.0	DB	.	.	.	.	.	ST	E
630	(	NO.	OF	RECORDS:	8	.	.	.	.	.	.	ST	E
800	(	IDENT:	6.6-046-101-230176-A	.	.	.	.	.	.	.	.	ST	E
1000	(	.	.	.	.	.	.	.	.	.	.	ST	E
1250	(	.	.	.	.	.	.	.	.	.	.	ST	E
1600	(	.	.	.	.	.	.	.	.	.	.	ST	E
2000	(	.	.	.	.	.	.	.	.	.	.	ST	E
2500	(	.	.	.	.	.	.	.	.	.	.	ST	E
3150	(	.	.	.	.	.	.	.	.	.	.	ST	E
4000	(	.	.	.	.	.	.	.	.	.	.	ST	E
5000	(	.	.	.	.	.	.	.	.	.	.	ST	E
6300	(	.	.	.	.	.	.	.	.	.	.	ST	E
8000	(	.	.	.	.	.	.	.	.	.	.	ST	E
10000	(	.	.	.	.	.	.	.	.	.	.	ST	E
12500	(	.	.	.	.	.	.	.	.	.	.	ST	E
16000	(	.	.	.	.	.	.	.	.	.	.	ST	E
20000	(	.	.	.	.	.	.	.	.	.	.	ST	E
25000	(	.	.	.	.	.	.	.	.	.	.	ST	E

	30	40	50	60	70	80	90	100	MEAN	SD
F	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	64.6	1.8
R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	66.1	2.4
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	67.5	3.4
Q	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	74.2	2.3
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	80.4	2.2
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	82.1	3.0
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	77.8	3.3
G	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	82.9	3.2
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	84.5	2.8
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	85.5	3.9
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	85.6	3.0
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	87.6	3.2
C	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	88.7	2.1
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	91.5	2.8
I	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	94.3	4.7
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	94.0	3.0
1600	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	92.7	1.5
2000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	91.8	1.7
H	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	90.0	1.8
2500	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	88.1	2.4
Z	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	83.0	2.8
3150	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	79.8	3.7
4000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	77.1	4.5
5000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	75.2	5.6
6300	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
8000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
10000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		

F-5E TAKEOFF POWER 101 % RPM  
 AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 114.4 PNOB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 113.9 PNOB  
 NO. OF RECORDS = 8 IDENT: 6.6-046-103-230176 ALT = 102.6 DBA  
 AL = 102.1 DBA



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 046																							
( OPERATION: )		OPS CODE: 103																							
( TAKEOFF POWER )		PROFILE VER: A																							
( 101 % RPM )		23 JAN 76																							
( )		PAGE H2																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
METEOROLOGY:																									
( TEMP = 59 F )																									
( REL HUMID = 70 % )																									
( )																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
250	79	80	82	88	95	96	92	97	99	100	100	102	104	107	110	110	109	109	108	108	108	104	104	106	111
250	77	78	80	86	93	94	90	95	97	98	98	100	102	105	108	108	107	107	106	106	102	101	103	108	
315	75	76	78	84	91	92	88	93	95	96	96	98	100	102	106	106	105	105	104	103	99	99	100	104	
400	73	74	76	82	89	90	86	91	93	94	94	96	97	100	103	103	103	102	101	101	96	96	96	100	
500	71	72	74	80	87	88	84	89	91	92	92	94	95	98	101	101	100	100	99	98	93	92	92	95	
630	69	70	72	78	84	86	82	87	89	90	90	92	93	96	99	99	98	97	96	95	90	89	88	89	
800	67	68	69	76	82	84	80	85	87	88	88	89	90	91	94	97	97	95	93	92	87	84	83	83	
1000	65	66	67	74	80	82	78	83	84	86	86	88	89	91	94	94	93	92	90	88	83	80	77	75	
1250	63	64	65	72	78	80	76	81	82	83	83	85	86	89	92	91	90	89	87	84	79	75	70	66	
1600	61	62	63	70	76	78	74	79	80	81	81	83	84	87	89	89	87	85	83	80	74	68	62	55	
2000	59	60	61	68	74	76	71	76	78	79	79	81	82	84	86	86	84	82	79	74	68	61	53	42	
2500	57	58	59	66	72	74	69	74	76	77	77	78	79	81	83	82	80	78	74	69	61	53	41	26	
3150	54	56	57	64	70	72	67	72	74	74	74	76	76	78	80	79	76	73	68	62	54	42	27	7	
4000	52	54	55	62	68	69	65	70	71	72	71	73	73	75	77	75	72	68	62	53	44	30	10		
5000	50	52	53	60	66	67	63	67	69	69	69	70	70	72	73	70	66	62	54	43	33	15			
6300	48	50	51	57	63	65	60	65	66	66	66	67	67	68	68	65	61	54	45	32	19				
8000	46	47	49	55	61	63	58	62	63	63	63	63	63	63	63	59	54	46	34	17	2				
10000	44	45	46	53	59	60	55	60	60	60	59	59	58	58	58	53	45	36	21						
12500	42	43	44	51	56	57	52	57	57	57	55	55	53	52	51	44	35	23	5						
16000	40	41	42	48	54	55	49	53	54	53	51	50	47	46	43	35	23	8							
20000	37	38	39	46	51	52	46	50	50	49	46	44	41	38	33	23	9								
25000	35	36	37	43	48	49	43	46	46	44	40	37	32	28	22	8									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
	119.4	119.9	131.9	132.5	120.4	121.5	123.1	OMEGA 6.6	
	117.1	117.6	129.6	130.1	119.0	120.2	121.8	A/C CODE: 046	
	114.7	115.2	127.2	127.7	117.7	118.9	120.4	OPS CODE: 103	
	112.3	112.8	124.8	125.3	116.3	117.5	118.9	PROFILE VER: A	
	109.8	110.3	122.2	122.7	114.8	116.0	117.4	23 JAN 76	
	107.3	107.8	119.6	120.1	113.3	114.5	115.7	PAGE 12	
	104.7	105.2	116.8	117.3	111.7	112.9	113.9		
	102.1	102.6	113.9	114.4	110.0	111.2	112.0		
	99.3	99.8	110.8	111.3	108.3	109.4	109.9		
	96.4	96.9	107.5	108.0	106.4	107.5	107.6		
	93.3	93.8	104.5	104.9	104.3	105.5	105.1		
	90.1	90.6	100.4	100.9	102.1	103.3	102.5		
	87.2	87.2	96.7	97.2	99.7	100.9	99.8		
	83.1	83.5	92.7	93.1	97.0	98.0	96.6		
	79.2	79.5	88.4	88.7	94.1	94.9	93.1		
	75.0	75.2	83.7	83.9	91.0	91.5	89.1		
	70.6	70.7	76.7	76.8	87.6	87.8	84.9		
	65.9	65.9	73.7	73.7	83.9	83.9	80.7		
	61.1	61.1	69.1	69.1	80.0	80.0	77.1		
	56.1	56.1	64.3	64.3	75.0	76.0	73.3		
	51.0	51.0	59.1	59.1	72.0	72.0	69.1		
	45.9	45.9	53.5	53.5	67.8	67.8	64.4		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

NOISE LEVEL IN DB	F-5E TAKEOFF POWER	
	101 % RPM	70 % REL HUMID
200	( F-5E	( X
250	( 101 % RPM	( A+ . X
315	( AIRSPEED = 300 KNOTS	( . X +P .
400	( TEMP = 59 F	( . A+ . X .
500	( DELTA N = 0.0 DB	( . . . . .
	( NO. OF RECORDS: 8	( . . . . .
	( IDENT: 6.6-046-103-230176-A	( . . . . .
S 630	( . . . . .	( . . . . .
L 800	( . . . . .	( . . . . .
N 1000	( . . . . .	( . . . . .
O 1250	( . . . . .	( . . . . .
I 1600	( . . . . .	( . . . . .
S 2000	( . . . . .	( . . . . .
N 2500	( . . . . .	( . . . . .
E 3150	( . . . . .	( . . . . .
I 4000	( . . . . .	( . . . . .
F 5000	( . . . . .	( . . . . .
E 6300	( . . . . .	( . . . . .
T 8000	( . . . . .	( . . . . .
10000	( . . . . .	( . . . . .
12500	( . . . . .	( . . . . .
16000	( . . . . .	( . . . . .
20000	( . . . . .	( . . . . .
25000	( . . . . .	( . . . . .

AIR TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

```

200 (-----S-T-E-----)
    ( F-5E TAKEOFF POWER )
250 ( . 101 % RPM )
315 ( . AIRSPEED = 300 KNOTS )
    ( . TEMP = 59 F REL HUMID = 70 % )
400 ( . DELTA N = 0.0 DB )
    ( . NO. OF RECORDS: 8 )
500 ( . IDENT: 6.6-046-103-230176-A )
    ( . . . . . STE. . . . . )
S 630 ( . . . . . STE )
L 800 ( . . . . . STE )
N 1000 ( . . . . . STE )
D 1250 ( . . . . . STE )
I 1600 ( . . . . . SX )
S 2000 ( . . . . . SX )
A 2500 ( . . . . . SX )
N 3150 ( . . . . . XT )
E 4000 ( . . . . . XT )
F 5000 ( . . . . . EST. )
E 6300 ( . . . . . E.X )
T 8000 ( . . . . . E X )
10000 ( . . . . . E. X )
12500 ( . . . . . E X )
16000 ( . . . . . E X )
20000 ( . . . . . E. X )
25000 ( . . . . . E-X )
    ( . . . . . AIR TO GROUND )
    ( . . . . . E = EPNL )
    ( . . . . . T = SELT )
    ( . . . . . S = SEL )
    (-----E-----X-----)
    50 60 70 80 90 100 110 120 130
    NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
GROUND-TO-GROUND PROPAGATION		OMEGA 6.5																								
AIRCRAFT:		METEOROLOGY:																								
F-5E		TEMP = 59 F																								
		REL HUMID = 70 %																								
		23 JAN 76																								
		PAGE L2																								
		DELTA N = 0.0 DB																								
		AIRSPEED = 300 KNOTS																								
		DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
(	(	200	74	75	77	83	90	91	87	92	94	95	95	97	99	102	105	105	104	104	103	103	99	99	101	106
(	(	250	72	73	75	81	88	89	85	90	92	93	93	95	97	100	103	103	102	102	101	101	97	96	98	103
(	(	315	70	71	73	79	86	87	83	88	94	91	91	93	95	97	101	101	100	100	99	98	94	94	95	99
(	(	400	68	69	71	77	84	85	81	86	88	89	89	91	92	95	98	98	98	97	96	96	91	91	91	95
(	(	500	66	67	69	75	81	83	78	84	86	87	87	89	90	93	96	96	95	95	94	93	88	87	87	90
(	(	630	64	65	67	73	79	80	76	81	84	85	85	87	88	91	94	94	93	92	91	90	85	84	83	84
(	(	800	62	63	64	71	76	77	73	79	82	83	83	85	86	89	92	92	90	90	88	87	82	79	78	78
(	(	1000	60	61	62	68	73	74	70	76	79	81	81	83	84	86	89	89	88	87	85	83	78	75	72	70
(	(	1250	58	59	59	65	70	71	67	72	76	78	78	80	81	84	87	86	85	84	82	79	74	70	65	61
(	(	1600	56	56	56	61	67	58	63	69	73	76	76	78	79	82	84	84	82	80	78	75	69	63	57	50
(	(	2000	52	52	52	58	63	64	59	65	70	74	74	76	77	79	81	81	79	77	74	69	63	56	48	37
(	(	2500	49	48	48	53	58	60	55	61	68	70	71	73	74	76	78	77	75	73	69	64	56	48	36	21
(	(	3150	45	44	44	48	54	55	50	56	61	66	68	71	71	73	75	74	71	68	63	57	49	37	22	2
(	(	4000	40	39	38	43	48	49	44	50	56	61	64	67	68	70	72	70	57	53	57	48	39	25	5	
(	(	5000	35	34	34	38	43	44	40	45	50	56	60	63	65	67	68	65	61	57	49	38	28	10		
(	(	6300	30	30	29	33	38	39	35	40	44	50	56	59	61	63	63	60	56	49	40	27	14			
(	(	8000	28	27	27	31	36	37	32	37	41	47	53	55	57	58	56	54	49	41	29	12				
(	(	10000	26	25	24	29	34	35	30	35	38	44	49	51	52	53	53	48	40	31	16					
(	(	12500	24	23	22	27	31	32	27	32	35	41	45	47	47	47	46	39	30	18						
(	(	16000	22	21	20	24	29	29	24	28	32	37	41	42	41	41	41	38	30	18	3					
(	(	20000	19	18	17	22	26	26	21	25	28	33	36	36	35	33	28	18	4							
(	(	25000	17	16	15	19	23	23	17	21	24	28	30	29	26	23	17	3								

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
IDENTIFICATION:									
OMEGA 6.5									
AIRCRAFT:									
METEOROLOGY:									
TEMP = 59 F									
REL HUMID = 70 %									
PROFILE VER: A									
23 JAN 76									
PAGE M2									
DELTA N = 0.0 08									
AIRSPEED = 300 KNOTS									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNL** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	114.4	114.4	126.9	126.9	115.4	116.0	117.6		
250	112.1	112.1	124.6	124.6	114.0	114.7	116.3		
315	109.7	109.7	122.2	122.2	112.7	113.4	114.9		
400	107.3	107.3	119.8	119.8	111.3	111.9	113.4		
500	104.8	104.8	117.2	117.2	109.8	110.5	111.0		
630	102.3	102.3	114.5	114.5	108.3	109.0	110.2		
800	99.7	99.7	111.7	111.7	106.7	107.4	108.4		
1000	97.1	97.1	108.7	108.7	105.0	105.7	106.4		
1250	94.3	94.3	105.5	105.5	103.2	103.9	104.2		
1600	91.4	91.4	102.1	102.1	101.3	102.0	101.8		
2000	88.3	88.3	98.4	98.4	99.3	100.0	99.1		
2500	85.0	85.0	94.6	94.6	97.0	97.7	96.3		
3150	81.6	81.6	90.6	90.6	94.5	95.2	93.2		
4000	77.8	77.8	86.1	86.1	91.8	92.3	89.6		
5000	73.6	73.6	81.2	81.2	88.6	89.0	85.6		
6300	69.0	69.0	75.9	75.9	85.0	85.3	81.1		
8000	64.2	64.2	70.3	70.3	81.2	81.3	76.4		
10000	58.9	58.9	64.4	64.4	76.9	76.9	71.4		
12500	53.2	53.2	57.9	57.9	72.2	72.2	65.9		
16000	46.9	46.9	51.1	51.1	66.9	66.9	60.1		
20000	40.1	40.1	43.5	43.5	61.1	61.1	53.5		
25000	32.9	32.9	35.2	35.2	54.9	54.9	46.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



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200 (-----ST-E-----)
( F-5E TAKEOFF POWER )
( . 101 % RPM )
( AIRSPEED = 300 KNOTS )
315 ( TEMP = 59 F REL HUMID = 70 % )
( DELTA N = 0.0 DB )
400 ( NO. OF RECORDS: 8 )
( IDENT: 6.6-046-103-230176-A )
500 ( . . . . . )
S 630 ( . . . . . )
L 800 ( . . . . . )
N 1000 ( . . . . . )
D 1250 ( . . . . . )
I 1600 ( . . . . . )
S 2000 ( . . . . . )
T 2500 ( . . . . . )
A 3150 ( . . . . . )
N 4000 ( . . . . . )
C 5000 ( . . . . . )
E 6300 ( . . . . . )
E 8000 ( . . . . . )
T 10000 ( . . . . . )
12500 ( . . . . . )
16000 ( . . . . . )
20000 ( . . . . . )
25000 (-----X-----)
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

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TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)	IDENTIFICATION:	
F-5E	100.7	101.3	113.6	113.6	98.5	99.6	101.7	OMEGA 6.6	
	98.6	99.1	110.8	111.4	97.3	98.4	100.4	A/C CODE: 046	
	96.4	97.0	108.5	109.1	96.2	97.2	99.2	OPS CODE: 194	
	94.1	94.7	106.1	106.7	94.9	96.0	97.8	PROFILE VER: A	
	91.9	92.4	103.7	104.3	93.6	94.7	96.4	23 JAN 76	
	89.5	90.1	101.2	101.8	92.3	93.4	94.9	PAGE I3	
	87.1	87.7	98.6	99.2	90.9	92.0	93.2		
	84.6	85.2	95.8	96.4	89.4	90.4	91.5		
	82.0	82.6	92.9	93.5	87.8	88.8	89.6		
	79.2	79.8	89.9	90.5	86.0	87.1	87.6		
	76.4	77.0	86.6	87.4	84.2	85.2	85.4		
	73.3	73.9	83.4	84.0	82.1	83.2	83.1		
	70.1	70.7	79.8	80.4	79.9	80.9	80.5		
	66.7	67.1	76.0	76.5	77.4	78.3	77.5		
	63.0	63.4	71.8	72.1	74.9	75.4	74.0		
	59.2	59.4	67.4	67.7	72.0	72.4	70.5		
	55.2	55.3	63.6	63.7	68.9	69.2	67.4		
	51.0	51.0	59.4	59.4	65.7	65.7	64.0		
	46.6	46.6	54.8	54.8	62.4	62.4	60.4		
	42.0	42.0	49.8	49.8	58.8	58.8	56.4		
	37.3	37.3	44.2	44.2	55.1	55.1	51.8		
	32.4	32.4	37.8	37.8	51.2	51.2	46.4		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.







TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION										
AIRCRAFT: ( OPERATION: ) METEOROLOGY: A/C CODE: 046										
( CRUISE POWER ) TEMP = 59 F OPS CODE: 104										
( 96 % RPM ) REL HUMID = 70 % PROFILE VER: A										
( AIRSPEED = 325 KNOTS ) DELTA N = 0.0 DB 23 JAN 76										
PAGE M3										
IDENTIFICATION:										
OMEGA 6.6										
AL (DBA)	ALT** (DBA)	PML (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)				
200	95.7	108.0	108.7	93.5	97.7	96.8				
250	93.6	105.7	106.5	92.3	93.6	95.6				
315	91.4	103.4	104.2	91.2	92.4	94.3				
400	89.1	101.1	101.8	89.9	91.2	92.9				
500	86.9	98.6	99.4	88.6	89.9	91.4				
630	84.5	96.1	96.8	87.3	88.5	89.9				
800	82.1	93.4	94.1	85.9	87.1	88.2				
1000	79.6	90.5	91.3	84.4	85.6	86.4				
1250	76.9	87.5	88.3	82.7	84.0	84.4				
1600	74.2	84.3	85.1	81.0	82.2	82.2				
2000	71.3	80.9	81.7	79.0	80.3	79.8				
2500	68.1	77.2	78.0	76.9	78.1	77.1				
3150	64.7	73.1	73.9	74.5	75.7	74.0				
4000	60.9	68.5	69.2	71.7	72.7	70.1				
5000	56.7	63.5	63.9	68.5	69.2	65.8				
6300	52.0	57.8	58.1	64.8	65.3	60.9				
8000	47.3	52.1	52.3	61.1	61.4	56.0				
10000	42.3	46.1	46.1	57.1	57.1	50.7				
12500	36.8	39.3	39.3	52.6	52.6	44.9				
16000	30.8	31.3	31.3	47.6	47.6	37.9				
20000	24.2	20.5	20.5	42.0	42.0	28.1				
25000	17.2	9.6	9.6	36.0	36.0	18.2				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
	F-5E		CRUISE POWER						
250	(	(	86 % RPM						
			AIRSPEED = 325 KNOTS						
315	(	(	TEMP = 59 F	REL HUMID = 70 %					
			DELTA N = 0.0 DB						
400	(	(	NO. OF RECORDS: 6						
			IDENT: 6.6-046-104-230176-A						
500	(	(							
630	(	(							
800	(	(							
1000	(	(							
1250	(	(							
1600	(	(							
2000	(	(							
2500	(	(							
3150	(	(							
4000	(	(							
5000	(	(							
6300	(	(							
8000	(	(							
10000	(	(							
12500	(	(							
16000	(	(							
20000	(	(							
25000	(	(							



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200 (-----S-T-E-----)
    ( F-5E      CRUISE POWER
250 ( .      86 % RPM
    ( AIRSPEED = 325 KNOTS
315 ( .      TEMP = 59 F      REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 ( .      NO. OF RECORDS: 6
    ( IDENT: 6.6-046-104-230176-A
500 ( . . . . .
    ( . . . . .
630 ( . . . . .
    ( . . . . .
800 ( . . . . .
    ( . . . . .
1000 ( . . . . .
    ( . . . . .
1250 ( . . . . .
    ( . . . . .
1600 ( . . . . .
    ( . . . . .
2000 ( . . . . .
    ( . . . . .
2500 ( . . . . .
    ( . . . . .
3150 ( . . . . .
    ( . . . . .
4000 ( . . . . .
    ( . . . . .
5000 ( . . . . .
    ( . . . . .
6300 ( . . . . .
    ( . . . . .
8000 ( . . . . .
    ( . . . . .
10000 ( . . . . .
    ( . . . . .
12500 ( . . . . .
    ( . . . . .
16000 ( . . . . .
    ( . . . . .
20000 ( . . . . .
    ( . . . . .
25000 (-----X-----)

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NOISE LEVEL IN DB

20 30 40 50 60 70 80 90 100

	10	20	30	40	50	60	70	80	MEAN	SD
F	.	.	.	.	.	.	.	.	74.6	1.8
R	.	.	.	.	.	.	.	.	74.5	1.7
E	.	.	.	.	.	.	.	.	74.5	1.7
Q	.	.	.	.	.	.	.	.	74.5	1.7
U	.	.	.	.	.	.	.	.	74.5	1.7
250	.	.	.	.	.	.	.	.	74.6	1.7
315	.	.	.	.	.	.	.	.	73.2	2.5
400	.	.	.	.	.	.	.	.	76.9	.6
N	.	.	.	.	.	.	.	.	75.9	1.8
500	.	.	.	.	.	.	.	.	76.4	.9
630	.	.	.	.	.	.	.	.	75.8	1.2
800	.	.	.	.	.	.	.	.	76.5	1.4
1000	.	.	.	.	.	.	.	.	77.0	1.2
I	.	.	.	.	.	.	.	.	76.6	.4
1250	.	.	.	.	.	.	.	.	77.3	1.1
1600	.	.	.	.	.	.	.	.	76.2	.6
2000	.	.	.	.	.	.	.	.	74.8	.6
H	.	.	.	.	.	.	.	.	72.0	.3
2500	.	.	.	.	.	.	.	.	69.6	.6
Z	.	.	.	.	.	.	.	.	65.8	1.1
3150	.	.	.	.	.	.	.	.	58.4	1.3
4000	.	.	.	.	.	.	.	.	52.9	1.6
5000	.	.	.	.	.	.	.	.	48.0	1.9
6300	.	.	.	.	.	.	.	.	44.2	2.0
8000	.	.	.	.	.	.	.	.		
10000	.	.	.	.	.	.	.	.		

F-5E                      APPROACH POWER                      82 % RPM  
 AIRSPEED                      = 170 KNOTS                      TEMP                      = 59 F  
 SLANT DISTANCE = 1000 FEET                      REL HUMID = 70 %  
 NO. OF RECORDS = 3                      IDENT: 6.6-046-105-230176  
 PNLT = 97.3 PNDB  
 PNL = 97.3 PNDB  
 ALT = 85.6 DBA  
 AL = 85.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
OPERATION:		A/C CODE: 040																						
APPROACH POWER		OPS CODE: 105																						
82 % RPM		PROFILE VER: A																						
REL HUMID = 70 %		23 JAN 76																						
DELTA N = 0.0 DB		PAGE H4																						
AIRSPEED = 170 KNOTS																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	89	89	89	89	89	87	91	90	91	90	91	92	92	93	92	91	39	88	86	80	78	78	81
250	87	87	87	87	87	87	85	89	88	89	88	89	90	90	91	90	89	87	86	84	78	75	78	
315	85	85	85	85	85	85	83	87	86	87	86	87	88	88	89	88	87	85	84	81	75	72	71	74
400	83	83	83	83	83	83	81	85	84	85	84	85	86	86	86	85	85	83	81	79	72	69	68	70
500	81	81	81	81	81	81	79	83	82	83	82	83	84	83	84	83	82	80	78	76	69	66	64	65
630	79	79	79	79	79	79	77	81	80	81	80	81	81	81	81	81	80	78	76	73	66	62	59	59
800	77	77	77	77	77	77	75	79	78	78	78	79	79	79	80	79	77	75	73	69	62	58	54	52
1000	75	75	75	75	75	75	73	77	76	76	76	77	77	77	77	76	75	72	70	66	58	53	48	44
1250	73	73	73	73	73	73	71	75	74	74	74	74	75	74	75	74	72	69	66	62	54	47	41	35
1600	71	70	70	70	70	70	69	73	72	72	71	72	72	72	72	71	69	65	62	57	49	41	32	23
2000	68	68	68	68	68	68	67	71	69	70	69	70	70	69	69	68	66	62	58	52	43	33	22	10
2500	66	66	66	66	66	66	65	68	67	67	67	67	67	67	66	64	62	58	53	46	36	24	10	
3150	64	64	64	64	64	64	63	66	65	65	64	64	64	63	63	61	58	53	47	38	28	14		
4000	62	62	62	62	62	62	60	64	63	63	61	62	61	60	59	57	53	47	40	30	18			
5000	60	60	60	60	60	60	58	61	60	60	59	59	58	56	55	52	48	41	32	19				
6300	58	58	58	58	58	58	57	59	57	57	56	55	54	52	51	47	42	33	23	7				
8000	56	56	56	56	55	55	53	56	55	54	52	52	50	48	46	41	34	24	12					
10000	54	54	53	53	53	52	50	53	52	51	49	48	46	43	40	33	26	14						
12500	52	51	51	51	50	50	48	51	48	47	45	43	41	37	33	25	15	1						
16000	49	49	49	48	48	47	45	47	45	43	40	38	35	29	24	15	3							
20000	47	47	46	46	45	44	41	44	41	39	35	32	27	21	14	2								
25000	45	44	44	43	42	41	38	40	36	34	29	25	19	11	2									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION	
(	200	101.5	114.2	114.2	101.1	101.7	104.5	) OMEGA 6.6	
(	250	99.4	112.0	112.0	99.9	100.6	103.3	) A/C CODE# 046	
(	315	97.2	109.7	109.7	98.8	99.4	102.0	) OPS CODE# 105	
(	400	95.0	107.4	107.4	97.5	98.2	100.7	) PROFILE VER# A	
(	500	92.7	105.0	105.0	96.3	96.9	99.3	) 23 JAN 76	
(	630	90.4	102.5	102.5	95.0	95.6	97.8	) PAGE I4	
(	800	88.0	100.0	100.0	93.6	94.2	96.2	)	
(	1000	85.6	97.3	97.3	92.1	92.8	94.5	)	
(	1250	83.0	94.4	94.4	90.6	91.2	92.7	)	
(	1600	80.4	91.5	91.5	89.0	89.6	90.7	)	
(	2000	77.7	88.3	88.3	87.2	87.8	88.6	)	
(	2500	74.8	85.1	85.1	85.3	85.0	86.4	)	
(	3150	71.8	81.7	81.7	83.3	83.9	83.9	)	
(	4000	68.6	78.0	78.0	81.1	81.6	81.1	)	
(	5000	65.3	74.6	74.6	78.8	79.2	78.6	)	
(	6300	61.8	71.1	71.1	76.3	76.6	76.0	)	
(	8000	58.1	67.4	67.4	73.6	73.8	73.1	)	
(	10000	54.3	63.4	63.4	70.8	70.8	70.1	)	
(	12500	50.3	59.1	59.1	67.9	67.9	66.7	)	
(	16000	46.2	54.5	54.5	64.7	64.7	63.2	)	
(	20000	41.9	49.5	49.5	61.4	61.4	59.1	)	
(	25000	37.4	43.9	43.9	58.0	58.0	54.5	)	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----X-----X-----)
( F-5E APPROACH POWER )
( . 82 % RPM )
250 ( . AIRSPEED = 170 KNOTS )
( . TEMP = 59 F REL HUMID = 70 % )
315 ( . DELTA N = 0.0 DB )
( . NO. OF RECORDS: 3 )
( . IDENT: 6.6-046-105-230176-A )
500 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
( . . . . . X . . . . . )
630 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
800 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
1000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
1250 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
1600 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
2000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
2500 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
3150 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
4000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
5000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
6300 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
8000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
10000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
12500 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
16000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
20000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
25000 (-----X-----X-----)

```

NOISE LEVEL IN DB

40      50      60      70      80      90      100      110      120

```

200 (-----ST-E-----)
    ( F-5E      APPROACH POWER
250 ( .      82 % RPM
    ( AIRSPEED = 170 KNOTS
315 ( .      TEMP = 59 F      REL HUMID = 70 %
    ( DELTA N = 6.0 DB
400 ( .      NO. OF RECORDS: 3
    ( IDENT: 6.6-046-105-230176-A
500 ( . . . . .
    ( . . . . .
S 630 ( . . . . .
    ( . . . . .
L 800 ( . . . . .
    ( . . . . .
N 1000 ( . . . . .
    ( . . . . .
D 1250 ( . . . . .
    ( . . . . .
I 1600 ( . . . . .
    ( . . . . .
S 2000 ( . . . . .
    ( . . . . .
A 2500 ( . . . . .
    ( . . . . .
C 3150 ( . . . . .
    ( . . . . .
E 4000 ( . . . . .
    ( . . . . .
F 5000 ( . . . . .
    ( . . . . .
E 6300 ( . . . . .
    ( . . . . .
T 8000 ( . . . . .
    ( . . . . .
10000 ( . . . . .
    ( . . . . .
12500 ( . . . . .
    ( . . . . .
16000 ( . . . . .
    ( . . . . .
20000 ( . . . . .
    ( . . . . .
25000 (-----E-X-----)

```

NOISE LEVEL IN DB

30 40 50 60 70 80 90 100 110

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 045																							
( OPERATION: )		OPS MODE: 105																							
( APPROACH POWER )		REL HUMID = 70 %																							
( 82 % RPM )		PROFILE VER: A																							
( )		23 JAN 76																							
( )		PAGE L4																							
( )		DELTA N = 0.0 DB																							
		FREQUENCY BAND NUMBER																							
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	84	84	84	84	84	84	82	86	85	86	65	96	87	87	98	87	86	84	83	81	75	73	73	76	76
250	82	82	82	82	82	82	80	84	83	84	83	84	85	85	86	85	84	82	81	79	73	70	70	73	73
315	84	80	80	80	80	80	78	82	81	82	81	82	83	83	84	83	82	80	79	76	70	67	66	69	69
400	78	78	78	78	78	78	76	80	79	80	79	80	81	81	81	81	80	78	76	74	67	64	63	65	65
500	76	76	76	76	75	75	74	78	77	78	77	78	79	78	79	78	77	75	73	71	64	61	59	60	60
630	74	74	74	74	73	72	71	75	75	76	75	76	76	76	77	76	75	73	71	68	61	57	54	54	54
800	72	72	72	71	70	70	68	73	73	73	73	74	74	74	75	74	72	70	68	64	57	53	49	47	47
1000	70	70	68	67	67	65	70	71	71	71	71	72	72	72	72	71	70	67	65	61	53	48	43	39	39
1250	68	68	66	64	64	62	66	68	68	69	69	69	70	69	70	69	67	64	61	57	49	42	36	30	30
1600	66	64	63	62	61	60	59	63	65	67	66	67	67	67	67	66	64	60	57	52	44	36	27	18	18
2000	62	61	59	58	57	56	55	59	61	65	64	65	65	64	64	63	61	57	53	47	38	28	17	5	5
2500	59	57	55	54	53	52	51	55	57	61	62	62	62	61	61	59	57	53	48	41	31	19	5	5	5
3150	55	52	51	49	48	47	46	50	53	57	58	59	59	58	58	56	53	48	42	33	23	9	9	9	9
4000	51	47	45	43	42	41	40	44	47	52	54	56	56	55	54	52	48	42	35	25	13	1	1	1	1
5000	45	43	41	38	37	37	35	39	41	47	50	52	53	51	50	47	43	36	27	14	1	1	1	1	1
6300	40	38	36	34	33	32	30	34	35	41	46	47	48	47	46	42	37	28	18	7	2	2	2	2	2
8000	33	36	34	32	30	29	28	31	33	38	42	44	44	43	41	36	29	19	7	7	7	7	7	7	7
10000	36	34	31	29	28	27	25	28	30	35	39	40	40	38	35	28	21	9	9	9	9	9	9	9	9
12500	34	31	29	27	25	24	22	26	26	31	35	35	35	32	28	20	10	10	10	10	10	10	10	10	10
16000	31	29	27	24	23	21	19	22	23	27	30	30	29	24	19	10	10	10	10	10	10	10	10	10	10
20000	29	27	24	22	20	18	16	19	19	23	25	24	21	16	9	9	9	9	9	9	9	9	9	9	9
25000	27	24	22	19	17	15	12	15	14	18	19	17	13	6	6	6	6	6	6	6	6	6	6	6	6

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PND9)	PNLT** (PND8)	SEL (DB)	SELT** (DB)	EPNL** (EPND8)	IDENTIFICATION:	
F-5E	96.5	96.5	109.2	109.2	96.1	96.7	99.4	OMEGA	6.6
	94.4	94.4	107.0	107.0	94.9	95.6	98.2	A/C CODE:	0+6
	92.2	92.2	104.7	104.7	93.8	94.4	96.9	OPS CODE:	105
	90.0	90.0	102.3	102.3	92.5	93.2	95.6	PROFILE VER:	A
	87.7	87.7	99.9	99.9	91.3	91.9	94.2	23 JAN 76	
	85.4	85.4	97.4	97.4	89.9	90.6	92.6	PAGE	M4
	83.0	83.0	94.7	94.7	88.6	89.2	91.0		
	80.5	80.5	91.9	91.9	87.1	87.7	89.1		
	77.9	77.9	88.9	88.9	85.5	86.1	87.1		
	75.2	75.2	85.6	85.6	83.8	84.4	84.9		
	72.4	72.4	82.2	82.2	82.0	82.6	82.5		
	69.4	69.4	78.5	78.5	79.9	80.5	79.8		
	66.1	66.1	74.4	74.4	77.6	78.2	76.6		
	62.4	62.4	69.8	69.8	75.0	75.5	72.9		
	58.3	58.3	64.7	64.7	71.8	72.2	68.7		
	53.8	53.8	59.4	59.4	68.4	68.6	64.3		
	49.4	49.4	54.7	54.7	65.0	65.1	60.5		
	44.7	44.7	49.2	49.2	61.2	61.2	55.9		
	39.5	39.5	42.8	42.8	57.0	57.0	50.5		
	33.8	33.8	35.9	35.9	52.4	52.4	44.5		
	27.7	27.7	28.1	28.1	47.2	47.2	37.7		
	21.1	21.1	15.3	15.3	41.6	41.6	25.9		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000	
F-5E																							
APPROACH POWER																							
82 % RPM																							
AIRSPEED = 170 KNOTS																							
TEMP = 59 F																							
REL HUMID = 70 %																							
DELTA N = 0.0 DB																							
NO. OF RECORDS: 3																							
IDENT: 6.6-046-105-230176-A																							
S																							
L																							
A																							
N																							
T																							
D																							
I																							
S																							
T																							
A																							
N																							
C																							
E																							
I																							
N																							
F																							
E																							
E																							
T																							
GROUND TO GROUND																							
P = PNL																							
* = PNL																							
+ = ALT																							
A = AL																							
NOISE LEVEL IN DB	30	40	50	60	70	80	90	100	110														

```

200 (-----ST-E-----)
    ( F-5E APPROACH POWER )
250 ( . 82 % RPM )
    ( AIRSPEED = 170 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 3 )
    ( IDENT: 6.6-046-105-230176-A )
500 ( . . . . . )
    ( . . . . . )
630 ( . . . . . )
    ( . . . . . )
800 ( . . . . . )
    ( . . . . . )
1000 ( . . . . . )
    ( . . . . . )
1250 ( . . . . . )
    ( . . . . . )
1600 ( . . . . . )
    ( . . . . . )
2000 ( . . . . . )
    ( . . . . . )
2500 ( . . . . . )
    ( . . . . . )
3150 ( . . . . . )
    ( . . . . . )
4000 ( . . . . . )
    ( . . . . . )
5000 ( . . . . . )
    ( . . . . . )
6300 ( . . . . . )
    ( . . . . . )
8000 ( . . . . . )
    ( . . . . . )
10000 ( . . . . . )
    ( . . . . . )
12500 ( . . . . . )
    ( . . . . . )
16000 ( . . . . . )
    ( . . . . . )
20000 ( . . . . . )
    ( . . . . . )
25000 ( . . . . . )
    ( . . . . . )

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USAF  
F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT  
F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT  
F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT

NOISE PRODUCED ON THE GROUND BY  
F-5E AIRCRAFT  
DURING GROUND RUN-UP OPERATIONS

TEST 74-004-039  
AIRCRAFT CODE: 046  
PROFILE VERSION: A  
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

	PAGE
50% RPM, 395 C EGT, 500 LBS/HR . . . . .	328-333
80% RPM, 340 C EGT, 900 LBS/HR . . . . .	334-339
MIL 100% RPM, 670 C EGT, 3150 LBS/HR . . . . .	340-345
AFTERBURNER 100% RPM, 670 C EGT, 10000 LBS/HR . . . . .	346-351

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

- NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET
- NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
- NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

06 APR 76

A E R O S P A C E M E D I C A L R E S E A R C H L A B O R A T O R Y  
W R I G H T - P A T T E R S O N A I R F O R C E B A S E , O H I O

F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT  
F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT  
F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT  
F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT F-5E AIRCRAFT

NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
F-5E AIRCRAFT																			
ENG. J85-GE-21																			
GROUND RUNUP																			
OPERATION:																			
IDLE, 50% RPM																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
BAND CENTER	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	64	64	65	64	65	63	64	64	63	64	64	62	65	65	67	67	65	63
63	62	63	63	63	63	63	62	62	62	62	61	63	63	62	64	65	64	63	61
80	61	62	62	62	59	59	61	59	59	57	60	60	62	61	63	54	64	62	61
100	64	64	63	62	62	63	61	60	61	61	62	61	62	64	66	66	66	63	61
125	67	68	69	68	66	67	66	68	68	66	66	66	66	68	67	67	67	64	59
160	68	68	70	69	68	68	68	70	69	70	71	72	70	69	68	69	67	66	59
200	64	64	63	63	63	64	62	65	64	63	65	65	66	64	64	62	60	59	56<
250	61	63	63	63	63	63	62	60	62	60	61	61	63	65	61	57	55	57	54
315	65	66	65	63	63	62	63	64	63	60	63	63	67	66	63	60	58	61	54
400	64	65	64	62	62	59	60	59	60	56	60	62	65	64	61	59	58	60	51
500	62	63	62	58	57	56	55	51	54	51	55	59	62	61	58	56	56	57	50
630	66	66	65	59	59	58	53	50	55	50	53	57	61	60	57	55	55	55	52
800	67	67	64	62	59	54	54	52	56	51	52	55	59	58	58	56	55	54	46
1000	68	66	65	64	62	61	55	53	55	52	54	54	56	56	53	53	52	45	45
1250	69	66	67	64	63	60	57	55	55	48	48	50	53	52	53	51	50	49	41
1600	72	69	70	68	67	64	59	54	56	51	51	51	52	52	53	51	51	48	41
2000	73	70	71	69	68	65	61	58	58	51	50	50	50	50	52	50	52	48	42
2500	72	70	70	68	68	64	59	57	57	50	52	52	50	51	53	51	52	49	43
3150	73	72	71	71	68	64	60	57	59	50	53	53	52	52	54	50	52	50	44
4000	72	71	72	72	72	58	63	65	63	58	56	57	50	52	54	53	55	51	44
5000	67	66	67	64	65	60	55	57	56	50	50	51	46	46	48	47	48	45	39
6300	69	68	68	66	64	58	51	50	52	41	44	45	44	45	45	41	44	43	34
8000	67	66	67	65	64	58	50	49	50	40	45	44	44	44	42	40	42	41	28<
10000	61	59	60	57	56	50	45	42	44	34<	39	42	40	39	38	34<	36<	35<	22<
OVERALL	82	81	81	80	79	77	75	76	75	74	75	76	76	76	75	75	75	73	69

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE											IDENTIFICATION:							
DISTANCE (FEET)	NOISE SOURCE/SUBJECT: F-5E AIRCRAFT ENG. J85-GE-21 GROUND RUNUP	( OPERATIONS: IDLE, 50% RPM SINGLE ENGINE											) OMEGA 8.2 TEST 74-004-039 RUN 01							
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
		) METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB																		
		) AIRCRAFT CODE 046 ) OPERATION CODE 02013 ) PROFILE VERSION A ) 06 APR 76 ) PAGE D1																		
		ANGLE (DEGREES)																		
200	97.0	96.0	97.2	95.9	95.8	92.4	87.9	88.5	88.0	82.8	83.0	84.0	83.2	83.1	83.1	81.8	82.4	80.1	73.5	
250	95.5	94.5	94.8	93.6	93.4	90.1	85.5	86.1	85.6	80.4	80.7	81.6	80.9	80.8	80.7	79.4	80.1	77.7	71.2	
315	93.1	92.1	92.4	91.1	91.0	87.6	83.1	83.7	83.2	78.0	78.3	79.2	78.7	78.6	78.4	77.0	77.7	75.4	68.8	
400	90.6	89.6	89.8	88.6	88.4	85.1	80.6	81.2	80.7	75.5	75.7	76.7	76.4	76.2	75.9	74.6	75.2	72.9	66.3	
500	88.0	87.0	87.2	85.9	85.7	82.4	77.9	78.5	78.0	72.8	73.1	74.1	74.0	73.8	73.3	71.9	72.5	70.3	63.7	
630	85.3	84.3	84.3	83.0	82.8	79.5	75.1	75.6	75.1	70.0	70.3	71.3	71.5	71.3	70.5	69.2	69.8	67.6	60.8	
800	82.4	81.4	81.2	79.9	79.7	76.5	72.1	72.5	72.1	67.0	67.3	68.3	68.9	68.8	67.6	66.3	66.8	65.0	57.8	
1000	79.3	78.2	78.0	76.8	76.4	73.2	68.8	69.3	68.9	63.7	64.1	65.1	66.2	66.0	64.8	63.1	63.6	62.1	54.7	
1250	75.9	74.9	74.5	73.4	72.8	69.6	65.2	65.6	65.3	60.0	60.5	61.8	63.4	63.2	61.7	60.1	60.0	59.2	51.0	
1600	72.4	71.2	70.9	69.7	68.8	65.7	61.5	61.5	61.2	55.8	57.0	58.5	60.3	60.1	58.5	56.8	56.4	55.8	47.4	
2000	68.7	67.3	67.1	65.5	64.6	61.9	57.6	56.8	56.7	51.0	53.3	54.9	56.9	56.6	54.8	53.1	52.5	52.2	43.0	
2500	64.8	63.2	63.1	61.1	60.5	57.7	53.3	51.4	52.1	45.9	48.7	50.4	52.6	52.2	50.2	48.3	47.7	47.4	38.1	
3150	60.3	58.6	58.6	56.5	55.9	53.1	48.3	45.9	46.8	40.4	43.2	45.2	47.8	47.3	44.9	42.9	42.1	42.1	31.7	
4000	55.2	53.5	53.5	51.2	50.6	47.3	42.1	39.2	40.4	32.6	36.2	38.5	41.9	41.0	38.7	36.2	35.5	35.5	23.4	
5000	49.6	47.4	47.8	44.7	43.9	40.5	34.5	30.6	32.4	21.1	26.7	30.9	34.7	34.4	32.1	29.4	27.9	27.0	14.1	
6300	42.5	40.0	40.6	37.3	36.0	32.1	24.5	15.1	22.0	9.7	14.4	21.2	27.2	26.4	21.9	19.1	15.7	17.8	4.9	
8000	34.9	33.6	32.8	28.5	26.7	20.8	14.4		11.6		2.0	13.4	20.1	19.2	13.0	6.9	3.4	7.8		
10000	25.9	24.9	21.7	13.3	17.4	9.5	4.4		1.1		5.6	12.6	8.7	4.1						
12500	11.6	12.0	7.1		8.2								5.2							
16000																				
20000																				
25000																				

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(DISTANCE (FEET))	ANGLE (DEGREES)																		
200	97.6	96.8	98.4	97.4	97.8	94.5	89.8	91.4	90.0	85.5	84.5	85.8	83.8	83.6	84.3	83.4	84.1	81.3	74.7
250	95.5	94.5	96.1	95.0	95.4	92.1	87.4	89.0	87.7	83.1	82.2	83.5	81.6	81.3	82.0	81.1	81.7	78.9	72.4
315	93.1	92.1	93.6	92.6	93.0	89.7	85.0	86.6	85.2	80.7	79.8	81.1	79.4	79.1	79.6	78.7	79.3	76.5	70.0
400	90.6	89.6	91.1	90.0	90.4	87.2	82.5	84.0	82.7	78.2	77.3	78.5	77.0	76.8	77.1	76.2	76.8	74.0	67.5
500	88.0	87.0	88.4	87.3	87.7	84.5	79.8	81.3	80.0	75.5	74.6	75.9	74.7	74.4	74.5	73.6	74.2	71.4	64.8
630	85.3	84.3	85.6	84.4	84.8	81.6	77.0	78.5	77.2	72.7	71.8	73.1	72.2	71.8	71.7	70.9	71.4	68.8	62.0
900	82.4	81.4	82.5	81.4	81.8	78.6	73.9	75.4	74.1	69.7	68.8	70.1	69.6	69.3	68.8	67.9	68.4	66.2	59.0
1000	79.3	78.2	79.2	78.2	78.4	75.3	70.7	72.1	70.9	66.4	65.6	66.9	66.9	66.5	66.0	64.8	65.2	63.3	55.8
1250	75.9	74.9	75.7	74.8	74.8	71.7	67.1	68.4	67.3	62.7	62.0	63.5	64.0	63.7	62.9	61.8	61.7	60.3	52.2
1600	72.4	71.2	72.1	71.1	70.8	67.7	63.4	64.4	63.3	58.5	58.5	60.4	61.0	60.6	59.7	58.4	58.0	56.9	48.6
2000	68.7	67.3	68.4	66.9	66.6	63.9	59.5	59.6	58.7	53.7	54.8	56.7	57.6	57.1	56.0	54.8	54.1	53.3	44.2
2500	64.8	63.2	64.4	62.9	62.5	59.8	55.2	54.3	54.1	48.6	50.2	52.3	53.3	52.8	51.5	50.0	49.3	48.6	39.3
3150	60.3	58.6	59.8	57.9	57.9	55.1	50.2	48.8	48.8	43.1	44.7	47.0	48.5	47.8	46.1	44.6	43.7	43.3	32.9
4000	55.2	53.5	54.5	52.4	52.2	48.9	43.6	41.5	42.1	34.8	37.5	40.0	42.4	41.4	39.7	37.5	36.8	36.4	24.3
5000	49.6	47.4	48.5	45.6	45.1	41.7	35.7	32.3	33.6	22.8	27.7	32.0	35.1	34.7	32.9	30.4	28.9	27.7	14.8
6300	42.5	40.0	41.1	37.8	36.8	32.9	25.2	16.3	22.8	10.8	15.0	21.9	27.5	26.6	22.4	19.7	16.3	18.2	5.3
8000	34.9	33.6	33.1	28.8	27.1	21.2	14.8	.3	12.0	2.3	13.8	20.2	19.3	13.3	7.2	3.7	8.1		
10000	25.9	24.9	21.7	13.3	17.4	9.5	4.4		1.1	5.6	12.6	8.7	4.1						
12500	11.6	12.0	7.1		8.2							5.2							
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.1	82.6	82.7	81.3	80.7	77.2	72.5	72.3	72.0	67.0	68.0	69.1	70.3	70.0	68.9	67.3	67.2	66.1	59.7
250	81.8	80.3	80.4	79.0	78.4	74.9	70.3	70.0	69.8	64.8	65.8	66.9	68.3	67.9	66.8	65.2	65.1	64.0	57.7
315	79.5	78.0	78.1	76.6	76.0	72.6	68.0	67.7	67.5	62.6	63.7	64.9	66.2	65.8	64.7	63.0	62.9	61.9	55.5
400	77.1	75.6	75.7	74.2	73.5	70.2	65.7	65.3	65.2	60.3	61.4	62.5	64.1	63.7	62.5	60.8	60.7	59.7	53.4
500	74.7	73.1	73.2	71.7	71.0	67.7	63.3	62.8	62.7	57.9	59.1	60.2	61.9	61.5	60.2	58.6	58.4	57.5	51.2
630	72.1	70.5	70.6	69.0	68.3	65.1	60.7	60.1	60.2	55.4	56.7	57.9	59.6	59.2	57.9	56.2	56.0	55.2	48.9
800	69.5	67.8	67.9	66.3	65.5	62.4	58.1	57.4	57.5	52.8	54.2	55.4	57.4	56.9	55.5	53.8	53.5	52.9	46.5
1000	66.7	65.0	65.1	63.4	62.6	59.6	55.4	54.5	54.7	50.1	51.6	52.9	55.0	54.5	53.0	51.3	51.0	50.4	44.1
1250	63.8	62.1	62.1	60.4	59.6	56.6	52.5	51.3	51.8	47.2	48.8	50.2	52.5	52.0	50.4	48.7	48.3	47.9	41.4
1600	60.8	59.1	59.1	57.2	56.3	53.5	49.4	48.1	48.7	44.1	45.8	47.4	49.9	49.3	47.7	46.0	45.5	45.2	38.7
2000	57.6	55.9	55.8	53.8	52.9	50.3	46.2	44.6	45.5	40.9	42.8	44.5	47.2	46.6	44.8	43.1	42.7	42.4	35.9
2500	54.3	52.5	52.4	50.3	49.3	46.8	42.7	40.8	42.0	37.3	39.3	41.2	44.0	43.4	41.7	39.9	39.5	39.3	32.8
3150	50.7	48.9	48.8	46.5	45.5	43.1	38.9	36.9	38.2	33.5	35.5	37.7	40.6	39.9	38.3	36.5	36.1	35.8	29.5
4000	46.8	45.1	44.8	42.4	41.4	39.1	34.9	32.6	34.2	29.5	31.5	33.7	36.8	36.1	34.5	32.7	32.3	32.0	25.7
5000	42.5	40.9	40.5	38.0	36.9	34.8	30.5	28.1	29.9	25.1	27.1	29.4	32.5	31.8	30.4	28.6	28.1	27.8	21.5
6300	37.8	36.2	35.7	33.3	32.0	30.1	25.7	23.3	25.3	20.5	22.5	25.0	28.1	27.4	26.0	24.2	23.7	23.3	17.1
8000	33.0	31.7	31.0	28.4	27.1	25.4	21.2	19.0	21.1	16.7	18.7	21.3	24.4	23.7	22.1	20.4	19.9	19.6	13.5
10000	27.9	26.9	25.9	23.2	21.9	20.4	16.5	14.6	16.7	12.5	14.8	17.4	20.5	19.8	18.0	16.2	15.8	15.7	9.6
12500	22.4	21.7	20.5	17.7	16.4	15.1	11.6	10.1	12.1	8.4	10.7	13.2	15.2	15.6	13.5	11.8	11.3	11.4	5.3
16000	16.5	16.2	14.8	11.8	10.7	9.6	6.6	5.6	7.3	4.0	6.3	8.7	11.6	10.9	8.6	7.0	6.6	6.7	.8
20000	10.1	10.1	8.8	5.7	4.8	3.8	1.6	1.1	2.3	1.8	3.9	6.5	6.0	3.5	2.1	1.6	1.6	1.8	
25000	3.3	3.6	2.5									1.1	.7						

IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-004-039  
 RUN 01  
 AIRCRAFT CODE 046  
 OPERATION CODE 02013  
 PROFILE VERSION A  
 06 APR 76  
 PAGE F1

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 79 %  
 DELTA N = -3.0 DB

OPERATION:  
 ENGINE, 50% RPM  
 SINGLE ENGINE

NOISE SOURCE/SUBJECT:  
 F-5E AIRCRAFT  
 ENG. J85-GE-21  
 GROUND RUNUP

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.1	82.6	84.0	82.7	82.7	79.2	74.4	75.2	74.1	69.7	69.5	70.9	71.0	70.5	70.1	68.9	68.9	67.3	60.9
250	81.8	80.3	81.7	80.4	80.4	77.0	72.2	72.9	71.9	67.6	67.4	68.7	69.0	68.4	68.0	66.8	66.7	65.2	59.8
315	79.5	78.0	79.3	78.1	78.0	74.7	69.9	70.6	69.6	65.3	65.2	66.6	66.9	66.3	65.9	64.7	64.5	63.1	56.7
400	77.1	75.6	76.9	75.6	75.5	72.3	67.6	68.2	67.2	63.1	63.0	64.4	64.7	64.2	63.7	62.5	62.3	60.9	54.6
500	74.7	73.1	74.4	73.0	73.0	69.8	65.1	65.7	64.8	60.7	60.6	62.1	62.6	62.0	61.4	60.2	60.0	58.7	52.3
630	72.1	70.5	71.8	70.5	70.3	67.2	62.6	63.0	62.2	58.1	58.2	59.7	60.3	59.7	59.1	57.9	57.6	56.4	50.0
800	69.5	67.8	69.1	67.7	67.6	64.5	60.0	60.3	59.5	55.5	55.7	57.2	58.0	57.4	56.7	55.5	55.2	54.0	47.7
1000	66.7	65.0	66.3	64.9	64.6	61.7	57.3	57.3	56.8	52.8	53.1	54.7	55.7	55.0	54.3	53.0	52.6	51.6	45.2
1250	63.8	62.1	63.4	61.8	61.6	58.7	54.3	54.2	53.8	49.9	50.3	52.0	53.2	52.5	51.6	50.4	49.9	49.0	42.6
1600	60.8	59.1	60.3	58.6	58.3	55.6	51.3	50.9	50.7	46.8	47.4	49.2	50.5	49.8	48.9	47.6	47.2	46.4	39.9
2000	57.6	55.9	57.1	55.3	54.9	52.3	48.1	47.5	47.5	43.6	44.3	46.3	47.8	47.1	46.1	44.5	44.3	43.6	37.1
2500	54.3	52.5	53.7	51.7	51.3	48.9	44.6	43.7	43.0	40.1	40.9	43.1	44.7	43.9	42.9	41.6	41.1	40.5	34.0
3150	50.7	48.9	50.0	47.9	47.5	45.2	40.8	39.7	40.3	36.3	37.1	39.5	41.3	40.4	39.5	38.2	37.7	37.0	30.7
4000	46.8	45.1	45.8	43.6	43.0	40.8	36.4	34.9	35.9	31.6	32.7	35.2	37.3	36.5	35.5	34.1	33.6	32.9	26.7
5000	42.5	40.8	41.2	38.9	38.1	36.1	31.6	29.8	31.1	26.7	28.0	30.5	32.9	32.1	31.1	29.6	29.1	28.5	22.2
6300	37.8	36.2	36.2	33.8	32.8	30.9	26.5	24.5	26.1	21.6	23.1	25.7	28.3	27.6	26.5	24.9	24.4	23.8	17.6
8000	33.0	31.7	31.2	28.7	27.5	25.8	21.6	19.6	21.5	17.2	19.1	21.7	24.6	23.8	22.4	20.7	20.2	19.9	13.7
10000	27.9	26.9	25.9	23.2	21.9	20.4	16.5	14.6	16.7	12.6	14.8	17.4	20.5	19.8	18.0	16.2	15.8	15.7	9.6
12500	22.4	21.7	20.5	17.7	16.4	15.1	11.6	10.1	12.1	8.4	10.7	13.2	16.2	15.6	13.5	11.8	11.3	11.4	5.3
16000	16.5	16.2	14.8	11.8	10.7	9.6	6.6	5.6	7.3	4.0	6.3	8.7	11.6	10.9	8.6	7.0	6.6	6.7	.8
20000	10.1	10.1	8.8	5.7	4.8	3.8	1.6	1.1	2.3	1.8	1.8	3.9	6.5	6.0	3.5	2.1	1.5	1.8	
25000	3.3	3.6	2.5									1.1	.7						



( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( ( DISTANCE = 250 FEET  
 ( ( NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) IDENTIFICATION:  
 ( F-5E AIRCRAFT ( IDLE, 50% RPM ( TEMP = 59 F ( ) OMEGA 8.2  
 ( ENG. J85-GE-21 ( SINGLE ENGINE ( BAR PRESS = 29.92 IN HG ( ) TEST 74-004-039  
 ( GROUND RUNUP ( ( REL HUMID = 70 % ( ) RUN 01  
 ( ( ( DELTA N = -3.0 DB ( ) AIRCRAFT CODE 046  
 ( ( ( ( ) OPERATION CODE 02013  
 ( ( ( ( ) PROFILE VERSION A  
 ( ( ( ( ) 06 APR 76  
 ( ( ( ( ) PAGE J1  
 ( ( ( ( )

ANGLE	P=PNLT			A=AL			T=ALT				
	0	10	20	30	40	50	60	70	80	90	100
0	.	.	.	.	.	.	.	.	.	.	.
10	.	.	.	.	.	.	.	.	.	X	.
20	.	.	.	.	.	.	.	.	.	X	P
30	.	.	.	.	.	.	.	.	.	A	P
40	.	.	.	.	.	.	.	.	.	A	P
50	.	.	.	.	.	.	.	.	.	A	P
60	.	.	.	.	.	.	.	.	.	A	P
70	.	.	.	.	.	.	.	.	.	A	P
80	.	.	.	.	.	.	.	.	.	A	P
90	.	.	.	.	.	.	.	.	.	A	P
100	.	.	.	.	.	.	.	.	.	A	P
110	.	.	.	.	.	.	.	.	.	A	P
120	.	.	.	.	.	.	.	.	.	A	P
130	.	.	.	.	.	.	.	.	.	A	P
140	.	.	.	.	.	.	.	.	.	A	P
150	.	.	.	.	.	.	.	.	.	A	P
160	.	.	.	.	.	.	.	.	.	A	P
170	.	.	.	.	.	.	.	.	.	A	P
180	.	.	.	.	.	.	.	.	.	A	P

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ( AIRCRAFT CODE 046 )																			
F-5E AIRCRAFT ( ENGINE RUNUP, 80% RPM ) TEMP = 59 F ( OPERATION CODE 02019 )																			
ENG. J85-GE-21 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ( PROFILE VERSION A )																			
GROUND RUNUP ( ) REL HUMID = 70 % ( 06 APR 76 )																			
( ) DELTA N = -3.0 DB ( ) PAGE C2																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	61	60	62	63	63	63	63	63	62	64	64	66	71	73	77	78	77	71	51
63	63	62	64	64	66	65	65	66	65	66	66	67	70	74	78	79	79	68	48
80	65	66	66	67	65	68	68	67	66	68	68	69	73	77	80	81	80	63	43
100	67	69	68	68	67	69	67	68	69	71	71	72	74	78	82	84	81	62	42
125	71	72	72	72	71	72	71	71	73	74	73	74	76	80	84	87	82	59	39
160	79	78	79	79	77	78	78	78	80	79	80	81	82	82	84	87	83	59	39
200	75	75	76	77	76	77	76	77	77	77	78	80	81	82	80	86	82	57	37
250	75	77	79	80	79	78	78	77	78	77	76	77	79	81	80	82	78	56	36
315	74	76	77	76	77	76	76	75	75	75	74	76	79	80	80	80	76	52	32
400	74	76	75	76	75	72	74	72	74	72	72	74	76	77	77	76	73	50	30
500	70	70	72	71	70	67	68	69	70	70	69	71	73	75	76	75	71	48	28
630	72	71	72	72	71	67	68	69	70	70	66	69	71	73	75	73	69	47	27
800	72	70	70	71	69	66	67	68	69	68	66	67	69	71	73	71	66	45	25
1000	69	69	69	68	65	65	65	66	68	67	64	65	68	70	72	70	64	42	22
1250	69	69	69	68	65	64	65	67	66	66	61	62	63	69	69	66	61	39	19
1600	72	71	71	69	68	67	64	67	66	68	61	64	63	69	68	66	60	40	20
2000	76	75	74	72	70	69	65	67	66	67	60	64	63	68	66	64	59	40	20
2500	76	75	73	72	70	69	64	67	66	66	59	64	61	67	64	62	59	39	19
3150	72	71	70	70	68	67	63	67	66	67	60	64	60	64	62	62	58	38	18
4000	71	71	70	70	67	67	63	65	65	55	56	62	58	63	60	60	56	35	15
5000	75	76	75	73	72	70	65	66	66	63	56	59	53	57	59	57	56	36	16
6300	74	74	73	73	71	70	65	66	65	63	54	57	51	55	57	56	55	33	13
8000	69	68	67	66	64	62	58	59	59	59	49	55	48	54	54	53	50	27	7
10000	69	70	69	67	65	63	58	59	59	57	49	54	46	51	54	50	49	21	1
OVERALL	87	87	87	87	86	85	85	85	86	85	85	86	88	90	91	94	90	74	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													IDENTIFICATION:				
NOISE SOURCE/SUBJECT 1		METEOROLOGY:													OMEGA 8.2				
F-5E AIRCRAFT		TEMP													TEST 74-004-039				
ENG. J45-GE-21		BAR PRESS = 29.92 IN HG													RUN 02				
GRUNJ RUNUP		REL HUMID = 70 %													AIRCRAFT CODE 046				
		DELTA N = -3.0 DB													OPERATION CODE 02019				
															PROFILE VERSION A				
															06 APR 76				
															PAGE 02				
DISTANCE		ANGLE (DEGREES)																	
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	101.3	101.3	101.1	100.0	98.3	97.3	94.3	95.6	95.8	95.9	92.3	94.6	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	99.1	99.0	98.7	97.7	95.9	94.9	92.1	93.5	93.5	93.6	90.1	92.4	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	96.7	96.5	96.3	95.3	93.5	92.5	89.9	91.2	91.2	91.3	87.9	90.2	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	94.3	94.0	93.8	92.7	91.0	90.0	87.5	88.8	88.8	88.9	85.6	87.9	88.4	91.0	91.3	92.8	88.0	65.3	38.8
500	91.6	91.3	91.1	90.1	88.3	87.3	85.0	86.2	86.2	86.4	83.0	85.3	86.0	88.6	89.0	90.4	86.3	62.8	34.5
630	89.1	89.6	89.2	87.4	85.6	84.4	82.3	83.5	83.5	83.7	80.3	82.6	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	86.3	85.8	85.4	84.6	82.8	81.5	79.8	80.6	80.7	80.8	77.5	79.9	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	83.2	82.8	82.4	81.5	79.8	78.5	76.8	77.6	77.7	77.8	74.6	77.2	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.6	79.8	79.1	78.3	76.5	75.4	73.7	74.4	74.8	74.6	71.6	74.0	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1600	76.6	76.1	75.8	74.9	73.1	72.0	70.7	71.0	71.7	71.0	68.6	71.0	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.0	72.3	72.1	71.1	69.7	68.3	67.5	67.5	68.5	67.8	65.4	67.8	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.0	68.3	68.2	67.1	65.6	64.3	63.4	63.5	64.5	63.7	61.4	63.9	65.2	67.6	68.1	67.7	63.7	35.1	
3150	64.6	63.8	63.8	62.6	61.1	59.7	58.8	58.9	60.0	59.2	56.8	59.3	60.7	63.2	63.8	63.5	59.0	26.2	
4000	59.7	58.9	58.8	57.6	56.0	54.5	53.6	54.1	54.8	54.4	51.3	54.1	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.1	53.3	53.2	51.9	50.2	48.1	47.4	48.3	49.2	48.8	45.6	48.5	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.5	46.4	46.4	45.3	44.4	41.2	41.0	42.5	43.3	42.9	39.5	42.5	44.3	47.3	48.4	47.6	42.0		
8000	40.8	39.8	40.8	40.5	38.8	35.5	35.2	37.0	38.0	37.2	34.3	37.5	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	18.2	18.3	18.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	5.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1					

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY:																		
	TEMP = 59 F																		
F-5E AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. J85-GE-21	DELTA N = -3.0 DB																		
GROUND RUNUP																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	102.3	102.5	102.3	101.5	99.6	98.6	95.0	96.4	96.8	96.4	93.0	95.2	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	100.0	100.1	100.0	99.1	97.3	96.3	92.8	94.2	94.6	94.2	90.9	93.0	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	97.7	97.7	97.5	96.7	94.9	93.8	90.6	91.8	92.2	91.9	88.7	90.8	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	95.2	95.1	95.0	94.2	92.3	91.3	88.3	89.4	89.8	89.4	86.3	88.5	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	92.7	92.5	92.3	91.5	89.7	88.6	85.8	86.9	87.3	86.9	83.8	86.0	86.0	88.6	89.0	90.4	86.7	62.8	34.5
630	90.0	89.8	89.4	88.8	86.9	85.7	83.0	84.2	84.6	84.2	81.1	83.2	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	87.2	87.0	86.6	86.0	84.1	82.8	80.3	81.3	81.7	81.4	78.2	80.5	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	84.2	84.0	83.6	83.0	81.1	79.9	77.5	78.3	78.8	78.4	75.4	77.9	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.9	80.7	80.3	79.7	77.9	76.7	74.5	75.1	75.8	75.1	72.4	74.7	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1500	77.5	77.3	77.0	76.3	74.5	73.3	71.4	71.7	72.8	71.6	69.4	71.6	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.9	73.5	73.4	72.5	71.0	69.7	66.2	68.2	68.6	68.3	66.2	68.4	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.9	69.5	69.4	68.5	67.0	65.6	64.2	64.2	65.6	64.3	62.2	64.4	65.2	67.6	68.1	67.7	63.7	35.1	
3150	65.5	65.0	65.0	64.0	62.5	61.0	59.6	59.6	61.0	59.8	57.5	59.9	60.7	63.2	63.8	63.5	59.0	26.2	
4000	60.4	59.8	59.8	58.7	57.1	55.5	54.2	54.7	55.7	54.8	51.9	54.5	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.7	54.0	53.9	52.8	51.0	48.9	47.8	48.7	49.8	49.1	46.1	48.9	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.9	46.9	46.9	46.5	44.9	41.8	41.3	42.7	43.8	43.1	39.8	42.4	44.3	47.3	48.4	47.6	42.0		
8000	41.0	40.1	41.0	40.9	39.0	35.7	35.4	37.1	38.2	37.3	34.5	37.7	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	6.6	6.6	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.3						

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1: A-WEIGHTED OVERALL SOUND LEVEL (OASL)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE: SUBJECT: F-5E AIRCRAFT  
ENG: J85-GE-21  
GROUND RUNUP

OPERATION: ENGINE RUNUP, 80% RPM  
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
BAR PRESS = 29.92 IN HG  
REL HUMID = 70 %  
DELTA N = -3.0 DB

IDENTIFICATION: OMEGA 8.2  
TEST 74-004-039  
RUN 02  
AIRCRAFT CODE 046  
OPERATION CODE 02019  
PROFILE VERSIO: A  
06 APR 76  
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	87.2	86.7	86.4	85.5	83.8	82.6	80.6	81.7	81.9	81.6	78.6	80.9	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	84.9	84.4	84.1	83.2	81.6	80.3	78.5	79.5	79.7	79.5	76.6	78.9	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	82.5	82.1	81.8	81.0	79.3	78.1	76.3	77.3	77.6	77.3	74.5	76.7	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	80.1	79.7	79.4	78.6	77.0	75.7	74.1	75.1	75.3	75.1	72.4	74.5	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	77.7	77.2	77.0	76.2	74.6	73.3	71.8	72.7	73.1	72.8	70.1	72.3	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	75.1	74.6	74.5	73.7	72.1	70.8	69.5	70.3	70.7	70.4	67.8	70.0	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	72.5	72.0	71.9	71.1	69.6	68.2	67.0	67.9	68.2	68.0	65.4	67.6	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	69.6	69.3	69.2	68.4	66.9	65.5	64.5	65.3	65.7	65.5	62.9	65.1	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	66.9	66.4	66.3	65.6	64.2	62.8	61.8	62.6	63.1	62.8	60.3	62.5	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.0	63.5	63.4	62.7	61.3	59.6	58.1	59.8	60.3	60.0	57.5	59.7	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	60.9	60.4	60.4	59.8	58.3	56.5	55.2	56.8	57.5	57.1	54.6	56.9	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	57.5	57.0	57.0	56.5	55.0	53.1	52.3	53.6	54.3	53.9	51.4	53.6	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	53.9	53.3	53.5	52.9	51.4	49.4	48.3	50.1	50.8	50.4	47.8	50.0	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.0	49.3	49.5	49.0	47.5	45.3	44.2	46.2	47.0	46.6	44.0	46.1	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	45.6	44.9	45.2	44.7	43.1	40.9	41.1	42.0	42.8	42.4	39.6	41.8	43.6	45.8	47.0	45.6	41.2	19.2	
6300	40.9	41.2	40.6	40.1	38.5	36.2	36.5	37.5	38.4	38.0	35.1	37.3	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.6	36.0	36.4	36.1	34.6	32.2	32.7	33.5	34.5	34.0	31.4	33.6	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.0	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.8	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.0	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.5	10.9	12.8	14.4	15.3	16.1	12.0		

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION: ENGINE RUNUP, 80% RPM																		
	AIRCRAFT: F-5E J85-GE-21																		
GROUND RUNUP	SINGLE ENGINE																		
	METEOROLOGY: TEMPERATURE = 59 F, BAR PRESSURE = 29.92 IN HG, REL HUMIDITY = 70 %, DELTA N = -3.0 DB																		
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>100
200	80.1	87.9	87.6	86.9	85.1	83.9	81.3	82.3	83.0	82.2	79.4	81.5	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	85.8	85.6	84.4	84.7	82.9	81.7	79.2	80.2	80.6	80.0	77.3	79.4	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	83.5	83.3	83.0	82.4	80.6	79.4	77.0	78.0	78.6	77.9	75.2	77.3	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	81.1	80.9	80.7	80.0	78.3	77.1	74.8	75.7	76.4	75.6	73.1	75.1	75.9	78.0	78.1	78.7	74.5	52.2	32.2
500	78.6	78.4	78.2	77.6	75.9	74.6	72.5	73.4	74.1	73.4	70.9	72.9	73.7	75.8	76.2	76.7	72.3	50.0	30.0
630	76.1	75.8	75.7	75.1	73.5	72.1	70.2	71.0	71.7	71.0	68.6	70.6	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	73.4	73.2	73.1	72.5	70.9	69.5	67.7	68.5	69.3	68.6	66.2	68.2	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	70.7	70.5	70.4	69.9	68.3	66.8	65.2	66.0	66.8	66.0	63.7	65.7	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	67.9	67.6	67.5	67.1	65.5	64.0	62.6	63.3	64.1	63.4	61.0	63.1	64.1	66.2	66.6	66.5	62.3	40.3	20.3
1600	64.9	64.6	64.6	64.2	62.6	61.0	59.8	60.4	61.4	60.6	58.3	60.3	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	61.8	61.6	61.6	61.2	59.7	57.9	56.9	57.5	58.5	57.7	55.4	57.5	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	58.4	58.1	58.3	57.9	56.4	54.4	53.6	54.2	55.3	54.5	52.1	54.2	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	54.8	54.5	54.7	54.3	52.8	50.7	50.0	50.7	51.9	51.0	48.5	50.6	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.7	50.3	50.5	50.1	48.6	46.4	45.9	46.8	47.9	47.1	44.5	46.6	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	46.2	45.6	45.9	45.5	43.9	41.7	41.5	42.4	43.5	42.8	40.0	42.2	43.6	45.8	47.0	45.6	41.2	19.2	
6300	41.3	40.7	41.0	40.7	39.0	36.7	36.8	37.8	38.8	38.2	35.4	37.6	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.7	36.2	36.6	36.4	34.9	32.4	32.9	33.7	34.7	34.1	31.6	33.8	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.3	30.5	27.9	28.6	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.8	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-5E AIRCRAFT  
 ENG. J85-GE-21  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-039  
 RUN 02  
 AIRCRAFT CODE 046  
 OPERATION CODE 02019  
 PROFILE VERSION A  
 06 APR 76  
 PAGE J2  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -1.0 DB

	P=PNLT	A=AL	T=ALT
0	.	.	.
10	.	.	.AT
20	.	.	.AT
30	.	.	.AT
40	.	.	.AT
50	.	.	.AT
60	.	.	.AT
70	.	.	.AT
80	.	.	.AT
90	.	.	.AT
100	.	.	.AT
110	.	.	.AT
120	.	.	.AT
130	.	.	.AT
140	.	.	.AT
150	.	.	.AT
160	.	.	.AT
170	.	.	.AT
>180	.	.	.AT

NOISE LEVEL IN PND3 OR DBA

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (OBS)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 046																			
F-5E AIRCRAFT ( MILITARY POWER, 100% RPM ) ) TEMP = 59 F ) OPERATION CODE 02004																			
ENG. J85-GE-21 ( SINGLE ENGINE ) ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ) ) REL HUMID = 70 % ) 06 APR 76																			
( ) ) DELTA N = -3.0 DB ) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	76	75	74	77	77	77	79	80	80	80	82	84	88	94	99	100	97	83	63
63	77	77	79	77	79	80	80	80	82	83	83	86	92	96	101	102	98	81	61
80	80	79	79	80	79	81	82	82	83	85	84	88	94	99	104	104	99	77	57
100	82	81	81	83	81	83	84	84	85	88	86	90	96	102	108	105	100	77	57
125	83	83	84	84	84	86	85	86	87	89	89	93	98	104	110	106	102	79	59
160	85	85	85	86	86	86	86	86	87	88	89	92	96	103	109	102	99	79	59
200	87	87	87	86	86	86	86	87	87	89	90	93	98	102	105	107	102	75	55
250	89	89	88	88	88	88	88	88	88	90	91	93	96	103	103	107	103	76	56
315	90	92	92	89	89	87	88	89	91	92	94	98	103	106	106	107	104	75	55
400	91	93	92	91	90	88	88	88	92	92	93	97	104	103	106	107	103	76	56
500	90	92	93	92	89	86	88	88	92	91	93	96	103	104	105	106	101	76	56
630	93	92	94	94	91	87	89	89	93	93	92	96	102	103	106	105	99	75	55
800	94	92	93	93	89	85	90	89	92	92	90	96	99	101	103	104	97	74	54
1000	96	97	98	96	93	89	91	89	92	92	90	95	98	99	101	102	95	72	52
1250	93	94	96	97	95	91	93	91	92	92	88	93	95	96	99	101	93	71	51
1600	90	92	93	94	93	92	96	94	94	94	89	93	95	96	97	100	92	70	50
2000	90	90	93	93	91	91	94	96	98	95	90	93	95	95	95	98	91	68	48
2500	88	87	90	90	90	88	90	94	95	93	88	92	94	93	94	97	89	67	47
3150	86	85	88	89	89	86	89	93	93	93	87	91	93	91	92	94	87	65	45
4000	85	84	86	87	87	85	89	92	93	93	87	90	93	90	91	94	87	65	45
5000	81	79	81	82	82	80	84	87	89	89	83	87	90	87	89	93	85	61	41
6300	82	78	80	81	81	79	83	85	87	87	81	85	87	86	85	90	81	56	36
8000	79	76	76	79	79	77	81	84	85	86	79	84	87	85	84	89	81	53	33
10000	73	71	73	75	75	72	77	81	81	83	75	83	85	83	82	8f	78	54	34
OVERALL	103	103	105	104	102	100	103	103	105	105	103	108	112	114	117	117	112	90	70

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: PERCEIVED NOISE LEVEL (PNL)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-5E AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENJ. J85-GE-21	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = -1.0 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-039																				
RUN 03																				
AIRCRAFT CODE 046																				
OPERATION CODE 02004																				
PROFILE VERSION A																				
06 APR 75																				
PAGE 03																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	115.2	115.2	116.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5	
250	113.0	113.1	114.7	114.9	113.8	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3	
315	110.7	110.8	112.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9	
400	108.4	108.5	110.1	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5	
500	105.9	106.1	107.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0	
630	103.4	103.7	105.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4	
800	100.8	101.1	102.7	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7	
1000	98.1	98.3	100.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.5	106.9	107.8	109.7	111.0	105.5	80.2	58.9	
1250	95.2	95.5	97.0	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8	
1600	92.3	92.5	93.9	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3	
2000	89.1	89.4	90.7	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7	
2500	85.7	86.0	87.3	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3	
3150	82.0	82.3	83.6	83.6	81.7	80.3	83.1	83.6	85.2	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3	
4000	77.9	78.3	79.6	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9	
5000	73.5	73.9	75.2	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	25.0	
6300	68.8	69.2	70.5	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0	
8000	64.1	64.6	65.9	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1	
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2		
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2		
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.5	47.6	52.3	58.6	60.2	61.9	63.1	57.4	23.3		
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.9	41.0	46.3	52.9	54.7	56.5	57.7	51.9	12.1		
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.3	46.5	48.4	50.3	51.6	45.5	.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-5E AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENC. J95-GE-21	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = -3.0 09																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-039																				
RUN 03																				
AIRCRAFT CODE 046																				
OPERATION CODE C2004																				
PROFILE VERSION A																				
06 APR 76																				
PAGE 57																				
PAGE 57																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	115.2	116.4	117.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5	
250	113.0	114.2	115.8	114.8	113.0	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3	
315	110.7	111.9	113.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9	
400	108.4	109.6	111.2	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5	
500	105.9	107.3	108.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0	
630	103.4	104.8	106.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4	
800	100.8	102.2	103.8	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7	
1000	98.1	99.5	101.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9	
1250	95.2	96.6	98.1	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8	
1500	92.3	93.6	95.0	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3	
2000	89.1	90.5	91.8	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7	
2500	85.7	87.1	88.4	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3	
3150	82.0	83.5	84.7	83.5	81.7	80.3	83.1	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3	
4000	77.9	79.2	80.4	79.3	77.5	75.8	78.7	79.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9	
5000	73.5	74.6	75.9	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	26.0	
6300	68.8	69.7	71.0	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0	
8000	64.1	64.8	66.1	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1	
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2		
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2		
16000	46.9	47.3	48.6	48.0	44.9	43.2	43.8	43.1	47.5	47.5	47.6	52.3	59.6	60.2	61.9	63.1	57.4	23.3		
20000	39.5	39.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.9	54.7	56.5	57.7	51.9	12.1		
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	32.4	38.9	46.5	48.4	50.3	51.6	45.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION: MILITARY POWER, 100% RPM																		
	METEOROLOGY: TEMPERATURE = 59 F, AIRCRAFT CODE 046																		
F-5E AIRCRAFT	BAR PRESS = 29.92 IN HG, OPERATION CODE 02004																		
	REL HUMID = 70 %, PROFILE VERSION A																		
ENG. J85-GE-21	DELTA N = -3.0 DB																		
	PAGE F3																		
GROUND RUNUP	IDENTIFICATION: OMEGA 8.2																		
	TEST 74-004-039																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.1	104.4	106.0	105.6	104.0	101.8	104.7	105.6	106.9	106.2	102.5	106.8	110.7	111.5	113.2	114.5	108.7	84.3	64.3
250	101.9	102.3	103.9	103.7	101.9	99.6	102.5	103.4	104.7	104.0	100.3	104.6	108.8	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	100.2	101.8	101.6	99.7	97.4	100.3	101.1	102.5	101.8	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	98.0	99.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	95.8	97.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.9	102.1	103.0	104.7	106.0	100.2	75.8	55.8
630	93.1	93.6	95.1	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.0	53.6
800	90.8	91.3	92.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	88.9	90.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	86.4	87.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	83.8	85.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	81.1	82.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	78.2	79.8	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	75.1	76.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	71.6	73.0	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	67.7	69.1	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.4	64.9	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.1	60.5	59.8	57.0	53.7	56.3	55.1	57.8	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.0	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DRA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	104.1	105.6	107.1	105.8	104.0	101.8	104.7	105.6	106.9	106.2	102.5	105.8	110.7	111.5	113.2	114.5	108.7	84.3	64.3
250	101.9	103.5	105.0	103.7	101.9	99.0	102.5	103.4	104.7	104.0	100.7	104.6	108.6	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	101.3	102.8	101.6	99.7	97.4	100.3	101.1	102.5	101.8	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	99.2	100.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	97.0	98.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.0	102.1	103.0	104.7	106.0	100.2	75.9	55.8
630	93.1	94.7	96.2	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.6	53.6
800	90.8	92.4	93.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	90.0	91.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	87.5	88.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	85.0	86.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	82.3	83.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	79.3	80.7	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	76.2	77.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	72.5	73.9	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	68.4	69.8	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.9	65.3	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.4	60.7	59.8	57.0	53.7	56.3	55.1	57.3	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.0	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-039  
 RUN 03  
 AIRCRAFT CODE 046  
 OPERATION CODE 02004  
 PROFILE VERSION A  
 06 APR 76  
 PAGE J3

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DB

OPERATION:  
 MILITARY POWER, 100% RPM  
 SINGLE ENGINE

NOISE SOURCE/SUBJECT:  
 F-5E AIRCRAFT  
 ENJ. J85-GE-21  
 SPUR. INUP

P=PNLT A=AL T=ALT

ANGLE	NOISE LEVEL IN PNDB OR DBA											
	30	40	50	60	70	80	90	100	110	120	130	
0									X			P.
10										AT		P
20										AT		P
30									X			P.
40										X		P
50									X			P
60										X.		P.
70									X			P
80										X		P
90									X			P
100									X			P
110										X		P
120										X.		P.
130										X.		P
140										X		P
150										X		P.
160										X		P.
170										P		
>180						X						

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 046																			
F-5E AIRCRAFT ( AFTERBURNER POWER ) TEMP = 59 F ) OPERATION CODE 02003																			
ENG. J65-GE-21 ( SINGLE ENGINE ) BAR PRESS =29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ( REL HUMID = 70 % ) 06 APR 76																			
( DELTA N = -3.0 DB ) PAGE C4																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>160
50	84	84	84	84	85	85	85	86	87	88	89	95	102	106	107	106	101	83	63
63	86	86	86	87	87	86	87	89	89	91	92	97	104	108	109	106	101	80	60
80	89	88	87	88	89	89	89	91	90	91	95	100	107	111	110	108	101	80	60
100	90	89	89	90	91	90	91	93	92	93	96	104	111	115	113	111	103	81	61
125	92	92	91	92	92	94	93	94	95	96	99	104	113	117	116	113	105	82	62
160	93	92	93	92	91	93	93	94	95	97	101	104	112	117	116	114	105	87	67
200	92	92	92	91	91	92	93	94	94	96	101	107	111	114	114	113	104	79	59
250	94	94	94	93	93	93	94	94	95	96	101	108	113	112	113	112	103	80	60
315	94	95	94	94	94	92	94	95	97	97	102	107	114	114	112	110	101	79	59
400	93	96	97	95	94	91	93	94	96	97	101	107	112	112	112	108	100	78	58
500	93	95	96	94	93	90	92	94	96	97	100	105	111	110	110	106	98	78	58
630	95	95	96	96	93	90	93	95	97	97	100	104	111	109	108	104	96	78	58
800	93	94	94	95	92	90	93	95	96	97	98	102	108	106	106	102	95	75	55
1000	91	93	95	94	92	90	93	94	96	97	96	101	106	105	105	101	93	73	53
1250	92	93	95	94	94	90	93	94	95	97	95	100	106	104	103	99	93	71	51
1600	93	94	94	95	95	92	95	96	96	97	95	99	105	102	103	98	92	72	52
2000	92	93	94	94	94	91	97	97	98	98	95	97	104	100	101	97	90	69	49
2500	89	88	90	91	91	88	94	97	97	96	94	95	103	98	100	96	88	70	50
3150	87	86	88	89	89	85	92	94	96	94	92	93	102	96	98	93	85	68	48
4000	87	87	88	90	89	87	93	95	96	96	91	92	103	95	97	92	83	68	48
5000	83	82	84	85	86	83	90	93	93	93	88	90	102	94	96	90	79	65	45
6300	82	80	82	83	83	81	88	90	91	91	86	87	100	90	94	87	75	60	40
8000	79	77	79	80	80	78	86	88	89	91	85	87	100	91	93	86	74	55	35
10000	75	74	76	77	78	75	83	87	87	89	85	85	101	91	94	87	71	51	31
OVERALL	105	105	106	106	105	104	106	108	109	109	111	116	123	125	124	121	113	92	72

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	METEOROLOGY																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	117.3	117.0	116.8	119.0	116.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	100.4	79.5
250	115.1	115.6	116.6	116.8	113.9	113.9	119.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	118.2	98.3	77.3
315	112.0	113.4	114.4	114.5	111.7	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	96.1	74.9
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	93.8	72.5
500	108.1	108.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	91.3	70.0
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	88.8	67.3
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	86.0	64.5
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	83.1	61.7
1250	97.3	98.0	99.0	99.0	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	80.0	58.7
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	77.0	55.3
2000	91.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	73.8	51.8
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	70.0	47.2
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	66.0	42.5
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	61.5	36.4
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.3	29.3
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	50.9	19.7
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	48.2	11.2
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4	
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3	
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1	
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8	

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	117.3	117.0	116.0	115.0	114.5	113.5	112.5	123.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	101.5	80.5
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	114.2	99.3	79.3
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	97.1	76.0
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	94.8	73.6
500	108.1	108.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.9	113.2	117.3	124.4	123.3	123.0	119.8	111.6	92.4	71.0
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	89.8	68.3
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.5	118.2	114.9	106.7	87.0	65.5
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	84.1	62.7
1250	97.3	98.0	99.0	99.0	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	81.0	59.7
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	78.0	56.4
2000	90.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	74.9	52.8
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	71.0	48.3
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	67.0	43.5
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	62.3	37.2
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.9	29.9
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	51.3	20.1
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	46.4	11.4
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4	
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3	
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.8	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1	
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8	

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY:																		
	TEMP = 59 F																		
F-5E AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. J85-GE-21	DELTA N = -3.0 DB																		
	AIRCRAFT CODE 046																		
GROUND RUNUP	PROFILE VERSION A																		
	06 APR 76																		
PAGE F4																			
IDENTIFICATION:																			
OMEGA 5.2																			
TEST 74-004-039																			
RUN 04																			
DISTANCE (FEET)	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	106.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	86.6	66.6
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	104.3	107.2	107.5	107.1	111.4	117.9	116.8	116.2	112.7	104.8	84.5	64.5
315	100.1	101.0	102.0	102.1	101.1	98.4	102.6	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.8	82.4	62.4
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.0	108.5	100.6	80.2	60.2
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	98.5	78.0	58.0
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	75.8	55.8
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	73.4	53.4
1300	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	71.0	51.0
1250	86.0	87.1	88.0	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	68.5	48.5
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	65.8	45.8
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	63.1	43.1
2500	77.7	78.8	79.8	79.6	78.3	75.4	78.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	60.1	40.1
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.0	90.0	89.0	88.5	84.5	77.0	56.8	36.8
4000	70.9	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	53.2	33.2
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.1	29.1
6300	62.2	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.8	76.6	76.1	72.0	64.6	44.7	24.7
8000	58.2	59.3	60.3	60.2	58.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	40.9	20.9
10000	53.8	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	36.8	16.8
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5
20000	39.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7	1.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DRA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY:																			
	TEMP = 50 F																			
F-5E AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. J95-GE-21	DELTA N = -3.0 DB																			
GROUND RUNUP																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-039																				
RUN 74																				
AIRCRAFT CODE 046																				
OPERATION CODE 02003																				
PROFILE VERSION A																				
06 APR 76																				
PAGE 64																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>190	
200	105.2	106.3	106.4	105.5	102.7	107.0	108.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	87.6	67.6		
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.6	116.2	112.7	104.8	85.5	65.5	
315	100.1	101.0	102.0	102.1	101.1	98.4	102.6	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	112.7	102.8	83.4	63.4	
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.0	108.5	100.6	81.3	61.3	
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	99.5	79.1	59.1	
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	76.8	56.8	
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	74.4	54.4	
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	72.0	52.0	
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	69.5	49.5	
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	66.9	46.9	
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	64.1	44.1	
2500	77.7	78.8	79.8	79.6	78.3	75.4	78.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	61.1	41.1	
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.3	78.7	79.5	84.0	90.0	89.0	88.5	84.5	77.0	57.9	37.9	
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	54.0	34.0	
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.7	29.7	
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.8	76.6	76.1	72.0	64.6	45.1	25.1	
8000	58.2	59.3	60.3	60.2	58.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	50.8	41.1	21.1	
10000	53.6	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	35.8	16.8	
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3	
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5	
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3	
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-3E AIRCRAFT  
 ENGINES: J85-GE-21  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-304-039  
 RUN 04  
 AIRCRAFT CODE 046  
 OPERATION CODE 02003  
 PROFILE VERSION A  
 06 APR 76  
 PAGE J4  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DB

	A=AL										T=ALT											
	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140
U																						
10																						
20																						
30																						
40																						
50																						
60																						
70																						
80																						
90																						
100																						
110																						
120																						
130																						
140																						
150																						
160																						
170																						
180																						

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF  
 F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT  
 F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT  
 F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-15 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS  
 AIRCRAFT CODE: 061  
 PROFILE VERSION: 8  
 COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

PAGE

AFTERBURNER 91% RPM . . . . . 353-361  
 TAKEOFF 90% RPM . . . . . 362-370  
 CRUISE 73.5% RPM . . . . . 371-379  
 APPROACH 75% RPM . . . . . 380-388

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNL  
 NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT  
 AIR-TO-GROUND PROPAGATION  
 SOUND PRESSURE LEVEL SPECTRA  
 SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)  
 GROUND-TO-GROUND PROPAGATION  
 SOUND PRESSURE LEVEL SPECTRA  
 SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

12 SEP 77

AEROSPACE MEDICAL RESEARCH LABORATORY  
 WRIGHT-PATTERSON AIR FORCE BASE, OHIO

F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT  
 F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT  
 F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT  
 F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT

	40	50	60	70	80	90	100	110	MEAN	SD
F	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	93.9	5.3
R	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	92.3	3.1
E	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	90.8	3.7
J	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	101.6	3.4
U	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	108.5	3.4
N	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	110.7	1.6
E	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	107.0	1.9
J	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	104.4	3.2
U	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	109.6	2.5
N	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	105.7	1.8
E	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	106.1	1.8
C	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	105.8	2.2
Y	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	104.3	1.6
I	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	103.0	1.6
N	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	101.4	1.7
H	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	101.2	1.7
Z	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	101.2	1.2
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	100.5	2.1
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	100.2	1.9
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	101.0	2.3
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	99.7	2.6
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	99.0	0.0
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	96.0	0.0
	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	( . . . . . )	97.0	0.0

F-15 AFTERBURNER POWER 91 % REM

AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 128.6 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 127.9 PNDB

NO. OF RECORDS = 8 IDENT: 6.6-061-101-120977 ALT = 114.8 DBA

AL = 114.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		METEOROLOGY:																								
( OPERATION:		A/C CODE: 061																								
( AFTERBURNER POWER		OPS CODE: 101																								
( 91 % RPM		PROFILE VERT B																								
( AIRSPEED = 350 KNOTS		12 SEP 77																								
( DELTA N = 0.0 DB		PAGE H1																								
SLANT		FREQUENCY BAND NUMBER																								
DISTANCE	(FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
(	(	200	108	106	105	116	123	125	121	119	124	120	121	119	118	117	118	118	118	120	123	123	126	130	138	
(	(	250	106	104	103	114	121	123	119	117	122	118	119	119	117	116	115	116	116	117	120	120	123	127	134	
(	(	315	104	102	101	112	119	121	117	115	120	116	117	117	115	114	113	114	114	115	118	117	120	124	130	
(	(	400	102	100	99	110	117	119	115	113	118	114	115	114	113	112	111	111	111	112	115	114	117	120	125	
(	(	500	100	98	97	108	115	117	113	111	116	112	113	112	111	110	109	109	109	110	112	111	113	115	120	
(	(	630	98	96	95	106	113	115	111	109	114	110	110	109	108	106	106	107	106	107	109	108	109	110	113	
(	(	800	96	94	93	104	111	113	109	106	112	108	108	108	107	105	104	104	104	104	105	104	104	105	106	
(	(	1000	94	92	91	102	109	111	107	104	110	106	106	106	104	103	101	101	101	100	101	100	99	98	97	
(	(	1250	92	90	89	100	106	109	105	102	107	103	104	103	102	101	99	98	98	97	96	97	95	93	90	86
(	(	1600	90	88	87	97	104	107	103	100	105	101	102	101	99	98	96	95	95	94	92	92	89	86	81	73
(	(	2000	88	86	85	95	102	104	101	98	103	99	99	97	95	93	92	91	90	87	86	83	77	69	57	
(	(	2500	86	84	83	93	100	102	98	96	101	97	97	96	94	92	90	89	87	85	82	79	75	67	55	38
(	(	3150	84	82	81	91	98	100	96	93	98	94	94	93	91	89	86	85	83	80	76	71	66	55	38	14
(	(	4000	82	80	78	89	96	98	94	91	96	92	91	90	88	86	83	80	78	74	68	61	54	40	17	
(	(	5000	80	78	76	87	94	96	92	89	93	89	88	87	84	82	78	75	72	66	59	49	41	22		
(	(	6300	77	76	74	85	91	93	89	86	91	86	85	84	81	77	73	69	65	58	48	35	24			
(	(	8000	75	74	72	82	89	91	86	83	88	83	82	80	76	71	67	63	57	48	35	17	4			
(	(	10000	73	71	70	80	87	88	84	80	85	79	78	75	71	67	61	55	47	36	19					
(	(	12500	71	69	67	76	84	85	81	77	81	75	74	71	65	60	53	45	35	21	0					
(	(	16000	69	67	65	75	81	82	78	74	77	71	69	65	59	52	43	33	21	2						
(	(	20000	66	64	62	72	78	79	74	70	73	66	63	58	51	42	32	19	3							
(	(	25000	64	62	60	69	75	76	70	66	68	60	56	50	41	31	18	2								

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE\*

SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (OB)	SELT** (OB)	EPNL** (EPNDB)
200	137.8	138.5	151.0	151.8	135.7	136.7	139.1
250	134.5	135.3	148.0	148.8	133.4	134.4	137.1
315	131.1	131.8	144.8	145.5	131.0	132.0	134.4
400	127.5	128.3	141.2	142.1	128.4	129.4	132.4
500	123.9	124.6	137.6	138.4	125.8	126.8	129.7
630	120.4	121.1	134.6	135.3	123.3	124.3	127.7
800	117.1	117.8	131.3	132.1	121.0	122.0	125.4
1000	114.0	114.8	127.9	128.6	119.9	119.9	123.0
1250	111.1	111.9	124.2	125.0	117.0	118.0	120.3
1600	108.3	109.1	120.9	121.7	115.2	116.2	118.0
2000	105.5	106.2	117.8	118.6	113.4	114.4	115.9
2500	102.7	103.4	114.7	115.4	111.6	112.6	113.8
3150	99.8	100.5	111.5	112.2	109.7	110.7	111.6
4000	96.8	97.4	108.3	108.9	107.7	108.5	109.2
5000	93.7	94.2	105.0	105.4	105.6	106.2	106.7
6300	90.5	90.8	101.6	101.9	103.4	103.8	104.1
8000	87.2	87.4	98.2	98.3	101.1	101.3	101.5
10000	83.7	83.7	94.6	94.6	98.6	98.6	98.7
12500	80.1	80.1	91.0	91.0	96.0	96.0	96.1
16000	76.2	76.2	87.3	87.3	93.1	93.1	93.4
20000	72.2	72.2	83.4	83.4	90.1	90.1	90.5
25000	67.9	67.9	79.1	79.1	86.8	86.8	87.2

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	80	90	100	110	120	130	140	150	160
200	(	(	(	(	(	(	(	(	(
	F-15	91 % RPM	AFT	BURNER	POWER				
250	(	(	(	(	(	(	(	(	(
	AIR	SPEED = 350	KNOTS						
315	(	(	(	(	(	(	(	(	(
	TEMP = 59	F	REL	HUMID = 70	%				
400	(	(	(	(	(	(	(	(	(
	DELTA	N = 0.0	DB						
500	(	(	(	(	(	(	(	(	(
	NO. OF	RECORDS: 8							
	IDENT: 6.6-061-101-120977-B								
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

NOISE LEVEL IN DB

AIR TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL



```

200 (-----ST-E-----)
      ( F-15  AFTERBURNER POWER )
250  ( . 91 % RPM )
315  ( . AIRSPEED = 350 KNOTS )
      ( . TEMP = 59 F  REL HUMID = 70 % )
400  ( . DELTA N = 0.0 DB )
      ( . NO. OF RECORDS: 8 )
500  ( . IDENT: 6.6-061-101-120977-B )
      ( . . . . . )
S 630 ( . . . . . )
L 800 ( . . . . . )
N 1000 ( . . . . . )
      ( . . . . . )
D 1250 ( . . . . . )
I 1600 ( . . . . . )
S 2000 ( . . . . . )
      ( . . . . . )
A 2500 ( . . . . . )
      ( . . . . . )
C 3150 ( . . . . . )
      ( . . . . . )
I 4000 ( . . . . . )
      ( . . . . . )
F 5000 ( . . . . . )
      ( . . . . . )
E 6300 ( . . . . . )
      ( . . . . . )
T 8000 ( . . . . . )
      ( . . . . . )
10000 ( . . . . . )
12500 ( . . . . . )
16000 ( . . . . . )
20000 ( . . . . . )
25000 ( . . . . . )

```

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-----X-----
      60    70    80    90    100    110    120    130    140
      NOISE LEVEL IN DB

```

AIR TO GROUND  
E = EPNL  
T = SELT  
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (03)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
F-15		A/C CODE: 061																							
( OPERATION:		OPS CODE: 101																							
( AFTERBURNER POWER		PROFILE VER: B																							
( 91 % RPM		12 SLP 77																							
( AIRSPEED = 350 KNOTS		PACE L1																							
( DELTA N = 0.0 DB																									
SLANT		FREQUENCY BAND NUMBER																							
DISTANCE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
(FEET)																									
200	103	101	100	111	118	120	116	114	119	115	116	115	114	113	112	113	113	113	113	115	118	118	121	125	133
250	101	99	98	109	116	114	114	112	117	113	114	114	112	111	110	111	111	111	112	115	115	115	118	122	129
315	99	97	96	107	114	116	112	110	115	111	112	112	110	109	108	108	109	109	109	110	113	112	115	119	125
400	97	95	94	105	112	114	110	108	113	109	110	109	108	107	106	106	106	107	107	110	109	112	115	120	
500	95	93	92	103	110	111	108	105	111	107	108	107	106	105	104	104	104	104	104	105	107	106	108	110	115
630	93	91	90	101	107	109	105	103	109	105	105	105	104	103	101	101	102	101	102	101	102	104	103	104	105
800	91	89	88	98	104	106	102	100	107	103	103	103	102	100	99	99	99	99	99	99	100	99	99	100	101
1000	89	87	86	95	101	103	99	97	104	101	101	101	99	98	96	96	96	96	95	95	95	94	93	92	
1250	87	85	83	92	98	100	96	94	101	98	99	98	97	96	94	93	93	93	92	91	92	90	88	85	81
1600	85	82	79	89	95	96	93	90	98	96	97	96	94	93	91	90	90	89	87	87	87	84	81	76	68
2000	82	79	76	85	91	92	89	86	95	94	94	94	92	90	88	87	86	85	82	81	78	72	64	52	
2500	78	75	72	81	87	88	84	82	90	90	92	91	89	87	85	84	82	80	77	74	70	62	50	33	
3150	74	70	67	76	82	83	79	77	86	86	88	89	86	84	81	80	78	75	71	66	61	50	33	9	
4000	70	65	62	70	76	77	73	71	81	81	84	85	83	81	78	75	73	69	63	56	49	35	12		
5000	64	60	57	65	71	73	69	66	75	76	80	80	79	77	73	70	67	61	54	44	36	17			
6300	59	56	52	61	66	68	64	61	69	70	75	76	75	72	68	64	50	53	43	30	19				
8000	57	54	50	58	64	65	61	58	66	67	72	72	70	67	62	58	52	43	30	12					
10000	55	51	48	56	62	63	58	55	63	63	68	67	65	62	56	50	42	31	14						
12500	53	49	45	54	59	60	55	52	59	59	64	63	59	55	48	40	30	16							
16000	51	47	43	51	56	57	52	49	55	55	59	57	53	47	38	28	16								
20000	48	44	40	48	53	54	49	45	51	50	53	50	45	37	27	14									
25000	46	42	38	45	50	50	45	41	46	44	46	42	35	26	13										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: A  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
IDENTIFICATION:									
OMEGA 6.6									
AIRCRAFT:									
OPERATION:									
A/C CODE: 061									
AFTERSOURNER POWER									
OPS CODE: 101									
91 % RPM									
PROFILE VER: B									
12 SEP 77									
PAGE M1									
METEOROLOGY:									
TEMP = 59 F									
REL HUMID = 70 %									
AIRSPEED = 350 KNOTS									
DELTA N = 3.0 DB									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)		
200	132.8	133.7	146.0	147.0	130.7	131.8	134.3		
250	129.5	130.4	143.0	143.9	128.4	129.6	132.3		
315	126.1	127.0	139.8	140.7	126.0	127.1	130.1		
400	122.5	123.4	136.3	137.2	123.4	124.6	127.6		
500	118.9	119.8	132.6	133.5	120.8	121.9	124.9		
630	115.3	116.3	129.5	130.4	118.2	119.4	122.7		
800	112.0	112.9	126.1	127.1	115.9	117.1	120.4		
1000	108.4	109.8	122.6	123.5	113.8	115.0	117.8		
1250	105.9	106.8	118.7	119.6	111.8	112.9	115.0		
1600	102.9	103.8	114.8	115.8	109.8	110.9	112.1		
2000	99.8	100.7	110.8	111.7	107.7	108.9	109.1		
2500	96.5	97.5	106.9	107.8	105.4	106.6	106.2		
3150	93.0	93.9	102.6	103.5	102.9	104.1	102.9		
4000	89.1	89.9	97.9	98.7	100.0	101.0	99.0		
5000	84.7	85.3	92.8	93.3	96.6	97.3	94.6		
6300	80.0	80.3	87.4	87.8	92.9	93.3	90.0		
8000	75.7	75.9	82.9	83.1	89.6	89.8	86.3		
10000	71.0	71.0	78.4	78.4	85.9	85.9	82.5		
12500	66.0	66.0	73.5	73.5	81.9	81.9	78.6		
16000	60.5	60.5	68.1	68.1	77.4	77.4	74.2		
20000	54.5	54.5	62.2	62.2	72.4	72.4	69.3		
25000	48.1	48.1	55.4	55.4	67.0	67.0	63.5		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



```

200 (-----ST-E)
( F-15 AFTERBURNER POWER
( 250 ( 91 % RPM . . . . . S T E
( AIRSPEED = 350 KNOTS
( 315 ( TEMP = 59 F REL HUMID = 70 % . . . . . S T E
( DELTA N = 0.0 DB
( 400 ( NO. OF RECORDS: 8 . . . . . S T E
( IDENT: 6.6-061-101-120977-B
( 500 ( . . . . . ST .E.
(
( S 630 ( . . . . . ST. E
( L 800 ( . . . . . ST E
( N 1000 ( . . . . . ST. E
( T 1250 ( . . . . . ST E
( I 1600 ( . . . . . STE
( S 2000 ( . . . . . SX
( A 2500 ( . . . . . SET
( N 3150 ( . . . . . XT
( C 4000 ( . . . . . EST
( E 5000 ( . . . . . E.X.
( E 6300 ( . . . . . E X
( T 8000 ( . . . . . E X
( 10000 ( . . . . . E X
( 12500 ( . . . . . E X
( 16000 ( . . . . . E X
( 20000 ( . . . . . E X
( 25000 (-----E-X-----)
( 60 70 80 90 100 110 120 130 140
( NOISE LEVEL IN DB

```

F R E Q U E N C Y	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB										MEAN	SD	
	30	40	50	60	70	80	90	100	110	120			
50	.	.	.	.	.	.	.	.	.	.	.	78.9	5.2
63	.	.	.	.	.	.	.	.	.	.	.	77.9	5.5
80	.	.	.	.	.	.	.	.	.	.	.	75.5	4.1
100	.	.	.	.	.	.	.	.	.	.	.	83.1	6.7
125	.	.	.	.	.	.	.	.	.	.	.	91.3	8.8
160	.	.	.	.	.	.	.	.	.	.	.	95.8	8.9
200	.	.	.	.	.	.	.	.	.	.	.	94.5	8.5
250	.	.	.	.	.	.	.	.	.	.	.	92.2	6.2
315	.	.	.	.	.	.	.	.	.	.	.	99.2	4.3
400	.	.	.	.	.	.	.	.	.	.	.	95.9	4.4
500	.	.	.	.	.	.	.	.	.	.	.	98.0	2.8
630	.	.	.	.	.	.	.	.	.	.	.	97.8	2.8
800	.	.	.	.	.	.	.	.	.	.	.	96.1	2.1
1000	.	.	.	.	.	.	.	.	.	.	.	94.4	1.5
1250	.	.	.	.	.	.	.	.	.	.	.	93.8	1.8
1600	.	.	.	.	.	.	.	.	.	.	.	92.6	1.6
2000	.	.	.	.	.	.	.	.	.	.	.	91.6	1.6
2500	.	.	.	.	.	.	.	.	.	.	.	89.5	1.5
3150	.	.	.	.	.	.	.	.	.	.	.	88.0	2.1
4000	.	.	.	.	.	.	.	.	.	.	.	87.0	2.3
5000	.	.	.	.	.	.	.	.	.	.	.	82.3	2.8
6300	.	.	.	.	.	.	.	.	.	.	.	81.1	1.8
8000	.	.	.	.	.	.	.	.	.	.	.	79.7	4.2
10000	.	.	.	.	.	.	.	.	.	.	.	78.3	6.4

F-15 TAKEOFF POWER 90 % RPM

AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 116.6 PND8

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 115.8 PND8

NO. OF RECORDS = 12 IDENT: 6.6-061-103-120377 ALT = 105.1 DBA

AL = 104.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION: )		A/C CODE: 061																							
( TAKEOFF POWER )		OPS CODE: 103																							
( 90 % RPM )		PROFILE VER: 8																							
( )		12 SEP 77																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
( )		PAGE M2																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
93	92	90	97	105	110	109	106	114	116	113	113	111	110	109	109	108	107	107	107	107	107	104	106	109	115
91	90	88	95	103	108	107	104	112	108	111	110	109	108	107	107	106	105	104	105	104	105	101	103	106	112
89	88	86	93	101	106	105	102	110	106	109	108	107	105	105	104	104	102	102	102	102	99	100	103	108	
87	86	84	91	99	104	103	100	107	104	106	106	105	103	103	102	102	100	99	100	99	100	96	97	99	104
85	84	82	89	97	102	101	98	105	102	104	104	103	101	101	100	99	98	97	95	94	94	90	90	91	97
83	82	80	87	95	100	99	96	103	100	102	102	101	99	99	98	97	95	94	94	90	90	86	86	86	86
81	80	78	85	93	98	97	94	101	98	100	100	98	97	96	95	94	92	91	91	91	86	86	86	86	86
79	78	76	83	91	96	95	92	99	96	98	98	96	94	94	93	92	90	88	87	82	81	80	80	78	
77	76	74	81	89	94	92	90	97	94	96	96	94	92	91	90	89	86	85	83	78	76	73	69	69	
75	74	71	79	87	92	90	88	95	92	94	93	91	89	89	87	86	83	81	78	73	69	64	57	57	
73	72	69	77	85	90	88	86	93	89	91	91	89	87	86	84	82	79	76	73	67	62	54	44	44	
71	70	67	75	83	87	86	84	90	87	89	88	86	84	83	81	79	75	71	67	60	53	42	27	27	
69	68	65	73	81	85	84	81	89	85	86	86	83	81	80	77	75	70	66	59	52	42	27	6	6	
67	66	63	71	79	83	82	79	85	82	84	83	80	78	76	73	70	65	59	51	42	29	9	9	9	
65	64	61	69	77	81	79	77	83	79	81	80	77	74	72	68	65	58	51	41	30	13	13	13	13	
62	61	59	66	74	79	77	74	81	77	78	77	74	70	67	63	58	51	41	28	16	16	16	16	16	
60	59	57	64	72	76	74	72	78	74	75	73	69	66	62	57	51	42	30	13	13	13	13	13	13	
58	57	54	62	70	74	72	69	75	70	71	69	65	60	56	50	43	31	16	16	16	16	16	16	16	
56	55	52	59	67	71	69	66	72	67	67	64	60	54	49	41	32	18	18	18	18	18	18	18	18	
54	53	50	57	65	68	66	63	69	63	63	59	54	47	41	31	20	2	2	2	2	2	2	2	2	
51	50	47	54	62	65	63	59	64	58	57	53	47	39	31	19	4	4	4	4	4	4	4	4	4	
49	48	45	52	59	62	59	55	60	53	51	45	38	29	19	4	4	4	4	4	4	4	4	4	4	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PML (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
200	121.2	122.0	134.0	134.8	121.9	123.1	125.7	OMEGA 6.6	
250	118.8	119.6	131.6	132.5	120.5	121.7	124.4	A/C CODE: 061	
315	116.4	117.3	129.2	130.1	119.1	120.3	122.9	OPS CODE: 103	
400	114.0	114.9	126.7	127.5	117.7	118.9	121.4	PROFILE VER: B	
500	111.6	112.4	124.0	124.9	116.3	117.5	119.8	12 SEP 77	
630	109.2	110.0	121.3	122.2	114.9	116.1	118.1	PAGE 12	
800	106.7	107.6	118.6	119.4	113.5	114.6	116.3		
1000	104.3	105.1	115.6	116.6	112.0	113.2	114.5		
1250	101.8	102.7	112.8	113.7	110.5	111.7	112.6		
1600	99.2	100.1	109.9	110.8	109.0	110.1	110.6		
2000	96.6	97.5	107.0	107.9	107.3	108.5	108.7		
2500	97.9	94.7	104.0	104.9	105.6	106.8	106.8		
3150	91.1	91.9	101.0	101.9	103.8	105.0	104.7		
4000	88.1	88.8	97.9	98.6	101.8	102.8	102.4		
5000	85.0	85.5	94.7	95.2	99.7	100.4	99.9		
6300	81.8	82.1	91.3	91.7	97.5	98.0	97.3		
8000	78.3	78.5	87.8	88.0	95.1	95.3	94.6		
10000	74.7	74.7	84.2	84.2	92.4	92.4	91.7		
12500	70.8	70.6	80.3	80.3	89.5	89.5	88.8		
16000	66.7	66.7	76.1	76.1	86.4	86.4	85.6		
20000	62.3	62.3	71.6	71.6	83.0	83.0	82.1		
25000	57.6	57.6	66.6	66.6	79.3	79.3	78.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



```

200 (-----A+-----*P)
( F-15 TAKEOFF POWER )
( . 90 X RPM . A+ . X . )
( AIRSPEED = 300 KNOTS )
315 ( TEMP = 59 F REL HUMID = 70 % . A+ . *P . )
( DELTA N = 0.0 DB )
400 ( NO. OF RECORDS: 12 . A+ . *P . )
( IDENT: 6.6-061-103-120977-B )
500 ( . . . . . X . . . . . *P . . . . . )
( . . . . . )
S 630 ( . . . . . A+ . *P . . . . . )
L 800 ( . . . . . A+ . X . . . . . )
N 1000 ( . . . . . A+ . . . . . *P . . . . . )
D 1250 ( . . . . . A+ . *P . . . . . )
I 1600 ( . . . . . A+ . *P . . . . . )
S 2000 ( . . . . . X . . . . . *P . . . . . )
N 2500 ( . . . . . A+ . *P . . . . . )
E 3150 ( . . . . . A+ . *P . . . . . )
I 4000 ( . . . . . A+ . *P . . . . . )
N 5000 ( . . . . . A+ . X . . . . . *P . . . . . )
E 6300 ( . . . . . X . *P . . . . . )
E 8000 ( . . . . . A+ . X . . . . . )
10000 ( . . . . . X . . . . . )
12500 ( . . . . . X . . . . . )
16000 ( . . . . . X . . . . . )
20000 ( . . . . . X . . . . . )
25000 (-----X-----)
60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB

```

TAKEOFF POWER

F-15  
 90 % RPM  
 AIRSPEED = 300 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 12  
 IDENT: 6.6-061-103-120977-B

NOISE LEVEL IN DB	ST-E
200	(
250	( . . . . . )
315	( . . . . . )
400	( . . . . . )
500	( . . . . . )
630	( . . . . . )
800	( . . . . . )
1000	( . . . . . )
1250	( . . . . . )
1600	( . . . . . )
2000	( . . . . . )
2500	( . . . . . )
3150	( . . . . . )
4000	( . . . . . )
5000	( . . . . . )
6300	( . . . . . )
8000	( . . . . . )
10000	( . . . . . )
12500	( . . . . . )
16000	( . . . . . )
20000	( . . . . . )
25000	( . . . . . )

NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		A/C CODE: 061																							
( TAKEOFF POWER		OPS CODE: 103																							
( 90 % RPM		PROFILE VER: B																							
(		12 SEP 77																							
( AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																							
(		PAGE L2																							
SLANT		FREQUENCY BAND NUMBER																							
DISTANCE	(FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	87	85	92	100	105	104	101	109	105	108	108	106	105	104	104	103	102	102	102	102	99	101	104	110
250	86	85	83	90	98	103	102	99	107	103	106	105	104	103	102	102	101	100	99	100	96	98	101	107	
315	84	83	81	88	96	101	100	97	105	101	104	103	102	100	100	99	99	97	97	97	94	95	98	103	
400	92	81	79	86	94	99	98	95	102	99	101	101	100	98	98	97	97	95	94	95	91	92	94	99	
500	80	79	77	84	92	96	95	93	100	97	99	99	98	96	96	95	94	93	92	92	88	89	90	94	
630	78	77	75	82	90	94	92	91	98	95	97	97	96	94	94	93	92	30	89	89	85	85	86	88	
800	76	75	73	80	87	91	90	88	96	93	95	95	93	92	91	90	89	87	86	85	81	81	81	81	
1000	74	73	71	77	84	88	87	85	94	91	93	93	91	89	89	88	87	85	83	82	77	76	75	73	
1250	72	71	67	74	81	85	84	82	91	89	91	91	89	87	86	85	84	81	80	78	73	71	68	64	
1600	70	68	64	70	77	81	80	78	88	87	89	88	86	84	84	82	81	78	76	73	68	64	59	52	
2000	67	64	60	67	74	78	76	74	84	84	86	86	84	82	81	79	77	74	71	68	62	57	49	39	
2500	63	60	56	62	69	73	72	70	80	81	84	83	81	79	78	76	74	70	66	62	55	48	37	22	
3150	59	56	52	57	64	68	67	65	76	76	80	81	78	76	75	72	70	65	61	54	47	37	22	1	
4000	55	51	46	52	59	63	61	59	71	72	77	77	75	73	71	68	65	60	54	46	37	24	4		
5000	50	46	42	47	54	58	56	54	65	66	72	73	72	69	67	63	60	53	46	36	25	8			
6300	44	41	37	42	49	53	51	49	59	61	68	69	68	65	62	58	53	46	36	23	11				
8000	42	39	35	40	47	51	49	47	56	58	65	65	63	61	57	52	46	37	25	8					
10000	40	37	32	38	45	48	46	44	53	54	61	61	59	55	51	45	38	26	11						
12500	38	35	30	35	42	45	43	41	50	51	57	56	54	49	44	36	27	13							
16000	36	33	28	33	40	43	40	38	46	47	53	51	48	42	36	26	15								
20000	33	30	25	30	37	40	37	34	42	42	47	45	41	34	26	14									
25000	31	28	23	28	34	36	34	30	39	37	41	38	32	24	14										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION										
AIRCRAFT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:		METEOROLOGY:		METEOROLOGY:		METEOROLOGY:	
( F-15	( TAKEOFF POWER	( TEMP	( A/C CODE: 061	( OMEGA 6.6	( REL HUMID = 70 %	( OPS CODE: 103	( SEL	( SELT**	( EPNL**	( EPNDB)
( 90 % RPM	( 300 KNOTS	( DELTA N = 0.0 DB	( 12 SEP 77	( PAGE M2	( AIRSPEED = 300 KNOTS	( 0.0 DB	( DB)	( DB)	( DB)	( DB)
(	(	(	(	(	(	(	(	(	(	(
( SLANT DISTANCE	AL	ALT**	PML	PMLT**	SEL	SELT**	EPNL**	EPNDB)	(	(
( (FEET)	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(DB)	(DB)	(	(
200	116.2	117.2	129.0	130.0	115.9	118.2	120.9	120.9		
250	113.8	114.8	126.6	127.6	115.5	116.9	119.5	119.5		
315	111.4	112.4	124.2	125.2	114.1	115.5	118.1	118.1		
400	109.0	110.0	121.7	122.7	112.7	114.1	116.5	116.5		
500	106.6	107.6	119.0	120.0	111.3	112.6	114.9	114.9		
630	104.2	105.2	116.2	117.2	109.9	111.2	113.1	113.1		
800	101.7	102.7	113.4	114.4	108.4	109.8	111.3	111.3		
1000	99.2	100.3	110.5	111.5	107.0	108.3	109.4	109.4		
1250	96.7	97.7	107.4	108.4	105.4	106.7	107.3	107.3		
1600	94.0	95.0	104.1	105.1	103.7	105.1	105.0	105.0		
2000	91.3	92.3	100.9	101.9	102.0	103.3	102.8	102.8		
2500	88.3	89.3	97.4	98.4	100.0	101.4	100.3	100.3		
3150	85.1	86.1	93.5	94.5	97.8	99.1	97.4	97.4		
4000	81.4	82.2	89.2	90.0	95.1	96.2	93.8	93.8		
5000	77.3	77.9	84.4	85.0	92.0	92.8	89.8	89.8		
6300	72.9	73.3	79.4	79.8	88.6	89.1	85.4	85.4		
8000	68.8	69.0	75.1	75.3	85.5	85.8	81.9	81.9		
10000	64.4	64.4	70.6	70.6	82.1	82.1	78.1	78.1		
12500	59.6	59.6	65.8	65.8	78.3	78.3	74.3	74.3		
16000	54.3	54.3	60.5	60.5	74.0	74.0	70.0	70.0		
20000	48.5	48.5	54.7	54.7	69.2	69.2	65.2	65.2		
25000	42.1	42.1	48.0	48.0	63.8	63.8	59.5	59.5		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

-----A+-----P-)

200 ( F-15 TAKEOFF POWER )

250 ( 90 % RPM )

315 ( AIRSPEED = 300 KNOTS )

400 ( TEMP = 59 F REL HUMID = 70 % )

500 ( DELTA N = 0.0 DB )

630 ( NO. OF RECORDS: 12 )

800 ( IDENT: 6.6-061-103-120977-B )

1000 ( )

1250 ( )

1600 ( )

2000 ( )

2500 ( )

3150 ( )

4000 ( )

5000 ( )

6300 ( )

8000 ( )

10000 ( )

12500 ( )

16000 ( )

20000 ( )

25000 ( )

-----A+-----P-)

NOISE LEVEL IN DB

50 60 70 80 90 100 110 120 130

200	(	F-15 TAKEOFF POWER										ST-E)
250	(	90 % RPM	.	.	.	.	.	.	.	.	.	ST E)
315	(	AIRSPED = 300 KNOTS	.	.	.	.	.	.	.	.	.	ST E)
400	(	TEMP = 59 F	.	.	.	.	.	.	.	.	.	ST E)
	(	REL HUMID = 70 %	.	.	.	.	.	.	.	.	.	ST E)
	(	DELTA N = 0.0 DB	.	.	.	.	.	.	.	.	.	ST E)
500	(	NO. OF RECORDS: 12	.	.	.	.	.	.	.	.	.	S.T.E.)
	(	IDENT: 6.6-061-103-120977-B	.	.	.	.	.	.	.	.	.	S.T.E.)
S 630	(		.	.	.	.	.	.	.	.	.	ST E)
L A 800	(		.	.	.	.	.	.	.	.	.	ST E)
N T 1000	(		.	.	.	.	.	.	.	.	.	ST E)
D 1250	(		.	.	.	.	.	.	.	.	.	S X)
I S 1600	(		.	.	.	.	.	.	.	.	.	S X)
A 2000	(		.	.	.	.	.	.	.	.	.	SX)
M C 2500	(		.	.	.	.	.	.	.	.	.	XT)
3150	(		.	.	.	.	.	.	.	.	.	EST.)
I N 4000	(		.	.	.	.	.	.	.	.	.	EST)
F 5000	(		.	.	.	.	.	.	.	.	.	E ST.)
E E 6300	(		.	.	.	.	.	.	.	.	.	E X.)
8000	(		.	.	.	.	.	.	.	.	.	E X.)
10000	(		.	.	.	.	.	.	.	.	.	E X.)
12500	(		.	.	.	.	.	.	.	.	.	E X.)
16000	(		.	.	.	.	.	.	.	.	.	E X.)
20000	(		.	.	.	.	.	.	.	.	.	E X.)
25000	(		.	.	.	.	.	.	.	.	.	E X.)

NOISE LEVEL IN DB

40 50 60 70 80 90 100 110 120

E---X-----

FREQUENCY	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB											SD	
	10	20	30	40	50	60	70	80					
50	.	.	.	.	.	.	.	.	.	.	.	.	68.2
63	.	.	.	.	.	.	.	.	.	.	.	.	4.4
80	.	.	.	.	.	.	.	.	.	.	.	.	4.4
100	.	.	.	.	.	.	.	.	.	.	.	.	4.4
125	.	.	.	.	.	.	.	.	.	.	.	.	2.8
160	.	.	.	.	.	.	.	.	.	.	.	.	2.2
200	.	.	.	.	.	.	.	.	.	.	.	.	1.5
250	.	.	.	.	.	.	.	.	.	.	.	.	1.9
315	.	.	.	.	.	.	.	.	.	.	.	.	3.2
400	.	.	.	.	.	.	.	.	.	.	.	.	3.3
500	.	.	.	.	.	.	.	.	.	.	.	.	1.5
630	.	.	.	.	.	.	.	.	.	.	.	.	1.8
800	.	.	.	.	.	.	.	.	.	.	.	.	1.2
1000	.	.	.	.	.	.	.	.	.	.	.	.	1.3
1250	.	.	.	.	.	.	.	.	.	.	.	.	.9
1600	.	.	.	.	.	.	.	.	.	.	.	.	1.2
2000	.	.	.	.	.	.	.	.	.	.	.	.	1.5
2500	.	.	.	.	.	.	.	.	.	.	.	.	2.0
3150	.	.	.	.	.	.	.	.	.	.	.	.	2.2
4000	.	.	.	.	.	.	.	.	.	.	.	.	1.8
5000	.	.	.	.	.	.	.	.	.	.	.	.	2.1
6300	.	.	.	.	.	.	.	.	.	.	.	.	2.6
8000	.	.	.	.	.	.	.	.	.	.	.	.	3.1
10000	.	.	.	.	.	.	.	.	.	.	.	.	3.6
	.	.	.	.	.	.	.	.	.	.	.	.	4.1

F-15 CRUISE POWER 73.5 % RPM

AIRSPEED = 280 KNOTS TEMP = 59 F PNLT = 94.5 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 93.5 PNDB

NO. OF RECORDS = 12 IDENT: 6.6-061-104-120977 ALT = 82.8 DBA

AL = 81.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 061																							
( CRUISE POWER		OPS CODE: 104																							
( 73.5 % RPM		PROFILE VER: B																							
( AIRSPEED = 280 KNOTS		12 SEP 77																							
( DELTA N = 0.0 DB		PAGE H3																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 82	82	82	84	86	88	87	95	91	86	88	88	88	88	87	87	87	86	84	81	78	74	73	75	81
( 250	( 80	80	82	84	86	86	85	93	89	86	86	86	86	86	85	84	84	84	82	79	76	74	71	72	78
( 315	( 78	78	80	82	84	84	83	91	87	84	84	84	84	84	83	83	82	82	79	76	73	69	68	69	74
( 400	( 76	76	78	80	82	82	81	89	85	82	82	82	82	82	81	81	80	79	77	74	71	66	65	66	70
( 500	( 74	74	76	78	80	80	78	87	83	80	80	80	80	80	79	78	77	75	71	68	63	61	62	65	
( 630	( 72	72	74	76	78	78	76	85	81	78	78	78	78	78	77	76	76	75	72	69	65	60	58	57	60
( 800	( 70	70	72	74	76	76	74	83	79	76	76	76	76	75	74	74	73	72	69	66	62	56	54	52	53
( 1000	( 68	68	70	72	74	74	72	81	76	74	74	74	74	73	72	71	71	70	67	63	58	53	49	46	45
( 1250	( 66	66	68	70	72	72	70	79	74	72	72	72	71	71	70	69	68	67	64	59	54	48	44	40	36
( 1600	( 64	64	66	68	70	68	68	77	72	69	69	69	68	68	67	66	65	64	60	55	49	43	37	31	25
( 2000	( 62	62	64	66	68	67	66	74	70	67	67	67	66	66	65	64	62	60	57	51	44	37	30	22	12
( 2500	( 60	60	62	64	66	65	64	72	68	65	65	64	64	63	62	61	59	57	52	46	38	31	21	10	
( 3150	( 58	58	59	62	63	62	62	70	65	62	62	62	61	61	59	57	55	53	48	41	31	23	11		
( 4000	( 56	56	57	59	61	59	61	68	63	60	60	59	58	56	54	51	48	42	34	23	13				
( 5000	( 54	54	55	57	59	57	59	65	61	57	57	56	54	52	50	47	43	36	26	13	2				
( 6300	( 52	52	51	53	55	56	55	63	58	55	54	53	51	48	45	42	37	29	17	1					
( 8000	( 50	49	49	51	53	54	52	60	55	52	51	49	47	44	40	36	30	20	6						
( 10000	( 48	47	47	48	50	52	50	58	52	48	47	45	43	39	35	29	22	10							
( 12500	( 45	45	45	46	48	49	47	55	49	45	43	41	37	33	26	21	12								
( 16000	( 43	43	42	43	45	45	44	51	46	41	39	36	32	26	20	11									
( 20000	( 41	40	40	41	43	43	41	48	42	37	34	30	25	18	10										
( 25000	( 39	38	37	38	40	40	37	44	37	32	28	23	17	8											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*												
AIR-TO-GROUND PROPAGATION												
IDENTIFICATION:												
OMEGA 6.6												
AIRCRAFT:												
OPERATION:												
CRUISE POWER = 59 F												
73.5 % RPM												
REL HUMID = 70 %												
METEOROLOGY:												
TEMP												
A/C CODE: 061												
OPS CODE: 104												
PROFILE VER: B												
12 SEP 77												
PAGE 13												
AIRSPEEDU = 280 KNOTS												
DELTA N = 3.0 DB												
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)					
200	97.2	98.3	109.8	110.9	97.1	98.1	100.4					
250	95.1	96.2	107.6	108.7	96.0	96.9	99.1					
315	92.9	94.0	105.4	106.4	94.8	95.8	97.9					
400	90.8	91.9	103.0	104.1	93.7	94.6	96.6					
500	88.6	89.7	100.7	101.8	92.5	93.4	95.2					
630	86.3	87.4	98.4	99.4	91.2	92.2	93.9					
800	84.1	85.1	96.0	97.0	90.0	90.9	92.5					
1000	81.7	82.8	93.5	94.5	88.6	89.6	91.0					
1250	79.3	80.4	90.9	92.0	87.2	88.2	89.4					
1600	76.9	78.0	88.3	89.4	85.8	86.7	87.8					
2000	74.3	75.4	85.6	86.7	84.2	85.2	86.2					
2500	71.7	72.8	82.8	83.9	82.6	83.6	84.4					
3150	69.0	70.1	79.9	81.0	80.9	81.8	82.5					
4000	66.1	67.0	76.9	77.8	79.0	79.8	80.3					
5000	63.2	63.8	73.8	74.4	77.1	77.7	77.9					
6300	60.1	60.6	70.5	71.0	75.0	75.4	75.5					
8000	57.0	57.2	67.1	67.4	72.8	73.0	72.7					
10000	53.6	53.6	63.5	63.5	70.5	70.5	70.1					
12500	50.1	50.1	59.6	59.6	68.0	68.0	67.2					
16000	46.5	46.5	55.4	55.4	65.4	65.4	63.9					
20000	42.6	42.6	50.9	50.9	62.5	62.5	60.5					
25000	38.4	38.4	45.9	45.9	59.3	59.3	56.4					

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	CRUISE POWER																										
	30	40	50	60	70	80	90	100	110																		
200	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
250	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
315	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
400	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
630	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
800	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
1000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
1250	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
1500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
2000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
2500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
3150	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
4000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
5000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
6300	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
8000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
10000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
12500	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
16000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
20000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
25000	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(												
F-15												A	*	P													
73.5 % RPM												.	A	*	P												
AIRSPEED = 280 KNOTS												.	A	*	P												
TEMP = 59 F REL HUMID = 70 %												.	A	*	P												
DELTA N = 0.0 DB												.	A	*	P												
NO. OF RECORDS: 12												.	A	*	P												
IDENT: 6.6-061-104-120977-B												.	A	*	P												
S												.	A	*	P												
L												.	A	*	P												
A												.	A	*	P												
N												.	A	*	P												
T												.	A	*	P												
D												.	A	*	P												
I												.	A	*	P												
S												.	A	*	P												
T												.	A	*	P												
A												.	A	*	P												
N												.	A	*	P												
C												.	A	*	P												
E												.	A	*	P												
I												.	A	*	P												
N												.	A	*	P												
F												.	A	*	P												
E												.	A	*	P												
E												.	A	*	P												
T												.	A	*	P												
10000												.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12500												.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16000												.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20000												.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25000												.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AIR TO GROUND												.	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.
P = PNL												.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
* = PNL												.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
+ = ALT												.	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
A = AL												.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
												.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
												.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

```

200 ( (-----ST-E-)
    ( F-15          CRUISE POWER
250 ( (
    ( 73.5 % RPM
315 ( (
    ( AIRSPEED = 280 KNOTS
    ( TEMP = 59 F  REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 ( (
    ( NO. OF RECORDS: 12
    ( IDENT: 6.6-061-104-120977-B
500 ( (
    (
630 ( (
    (
800 ( (
    (
1000 ( (
    (
1250 ( (
    (
1600 ( (
    (
2000 ( (
    (
2500 ( (
    (
3150 ( (
    (
4000 ( (
    (
5000 ( (
    (
6300 ( (
    (
8000 ( (
    (
10000 ( (
    (
12500 ( (
    (
16000 ( (
    (
20000 ( (
    (
25000 ( (

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		A/C CODE: 061																						
( CRUISE POWER		OPS CODE: 104																						
( 73.5 % RPM		PROFILE VER: B																						
( AIRSPEED = 280 KNOTS		12 SEP 77																						
( DELTA N = 0.0 DB		PAGE L3																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	77	77	79	81	83	82	90	86	83	83	83	83	82	82	82	81	79	76	73	69	66	70	76
250	75	75	75	77	79	81	80	88	84	81	81	81	81	80	80	79	79	77	74	71	66	66	67	73
315	73	73	73	75	77	79	78	86	82	79	79	79	79	78	78	77	77	74	71	68	64	63	64	69
400	71	71	71	73	75	77	75	84	80	77	77	77	77	75	76	75	74	72	69	66	61	60	61	65
500	69	69	69	71	73	74	73	82	78	75	75	75	75	74	73	73	72	70	66	63	58	56	57	60
630	67	67	67	69	70	72	70	79	76	73	73	73	73	72	71	71	70	57	64	60	55	53	52	55
800	65	65	65	66	68	69	68	77	74	71	71	71	70	69	69	68	67	64	61	57	51	49	47	48
1000	63	63	63	63	65	66	65	74	71	69	69	69	68	67	66	66	65	62	59	53	48	44	41	40
1250	61	61	60	60	62	63	61	70	68	67	67	66	66	65	64	63	62	59	54	49	43	39	35	31
1600	59	58	57	57	58	59	58	67	65	64	64	64	63	62	61	60	59	55	50	44	38	32	26	20
2000	56	54	53	53	54	56	54	63	62	62	62	62	61	60	59	57	55	52	46	39	32	25	17	7
2500	53	50	49	49	50	51	50	59	58	56	60	59	58	57	56	54	52	47	41	33	26	16	5	
3150	49	46	44	44	45	46	45	54	53	54	56	57	56	54	52	50	49	43	36	26	18	6		
4000	44	41	39	38	40	41	39	48	48	49	52	53	53	51	49	46	43	37	29	18	8			
5000	39	36	34	33	35	36	34	43	42	44	46	49	49	47	45	42	38	31	21	8				
6300	34	32	29	29	30	31	29	38	36	39	44	45	45	43	40	37	32	24	12					
8000	32	29	27	27	28	29	27	35	33	36	41	41	41	39	35	31	25	15	1					
10000	30	27	25	24	25	26	24	33	30	32	37	37	37	34	30	24	17	5						
12500	27	25	23	22	23	24	21	30	27	29	33	33	31	28	23	16	7							
16000	25	23	20	19	20	21	18	26	24	25	29	28	26	21	15	6								
20000	23	20	18	17	18	18	15	23	20	21	24	22	19	13	5									
25000	21	18	15	14	15	15	12	19	15	16	16	15	11	3										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

) IDENTIFICATION:													
) OMEGA 6.6													
) A/C CODE: 051													
) OPS CODE: 104													
) PROFILE VER: B													
) 12 SEP 77													
) PAGE M3													
) METEOROLOGY:													
) TEMP = 59 F													
) REL HUMID = 70 %													
) DELTA N = 0.0 DB													
) AIRSPEED = 280 KNOTS													
) CRUISE POWER = 73.5 % RPM													
) OPERATION:													
) CRUISE POWER = 73.5 % RPM													
) AIRSPEED = 280 KNOTS													
) DELTA N = 0.0 DB													
) GROUND-TO-GROUND PROPAGATION													
) AIRCRAFT:													
) F-15													
) AIRSPEED = 280 KNOTS													
) CRUISE POWER = 73.5 % RPM													
) OPERATION:													
) CRUISE POWER = 73.5 % RPM													
) AIRSPEED = 280 KNOTS													
) DELTA N = 0.0 DB													
) SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*													
) GROUND-TO-GROUND PROPAGATION													
) AIRCRAFT:													
) F-15													
) AIRSPEED = 280 KNOTS													
) CRUISE POWER = 73.5 % RPM													
) OPERATION:													
) CRUISE POWER = 73.5 % RPM													
) AIRSPEED = 280 KNOTS													
) DELTA N = 0.0 DB													
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)						
200	92.2	93.2	104.8	105.7	92.1	92.9	95.2						
250	90.1	91.0	102.6	103.5	91.0	91.8	94.0						
315	87.9	88.9	100.3	101.2	89.8	90.7	92.7						
400	85.8	86.7	98.0	98.9	88.7	89.5	91.4						
500	83.6	84.5	95.5	96.5	87.5	88.3	89.9						
630	81.3	82.2	93.0	94.0	85.2	87.0	88.4						
800	78.9	79.9	90.4	91.3	84.8	85.6	86.8						
1000	76.5	77.4	87.5	88.5	83.4	84.2	84.9						
1250	73.9	74.9	84.6	85.5	81.8	82.7	82.9						
1600	71.3	72.2	81.4	82.3	80.2	81.0	80.8						
2000	68.5	69.4	77.9	78.9	78.4	79.2	78.3						
2500	65.5	66.4	74.2	75.1	76.4	77.2	75.6						
3150	62.2	63.2	70.2	71.1	74.1	74.9	72.6						
4000	58.6	59.3	65.8	66.6	71.5	72.1	69.0						
5000	54.5	55.1	61.0	61.6	68.4	68.9	65.1						
6300	50.1	50.5	56.0	56.4	65.0	65.3	60.9						
8000	46.0	46.2	51.4	51.6	61.9	62.1	57.1						
10000	41.6	41.6	46.0	46.0	58.5	58.5	52.6						
12500	36.8	36.8	40.2	40.2	54.7	54.7	47.8						
16000	31.6	31.6	33.6	33.6	50.5	50.5	42.2						
20000	26.0	26.0	25.8	25.8	45.9	45.9	35.4						
25000	19.9	19.9	10.2	10.2	40.8	40.8	20.8						

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 (-----A+-----*P-----)
    ( F-15      CRUISE POWER
250 ( . 73.5 % RPM
    ( AIRSPEED = 280 KNOTS
315 ( . TEMP = 59 F  REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 12
    ( IDENT: 6.6-061-104-120977-B
500 ( . . . . . A+ . . . . . X . . . . .
    (
S 630 ( . . . . . A+ . . . . . *P
L 800 ( . . . . . A+ . . . . . *P
N 1000 ( . . . . . A+ . . . . . X . . . . .
O 1250 ( . . . . . A+ . . . . . X . . . . .
I 1600 ( . . . . . A+ . . . . . *P
V 2000 ( . . . . . X . . . . . *P
C 2500 ( . . . . . A+ . . . . . *P
E 3150 ( . . . . . A+ . . . . . *P
I 4000 ( . . . . . X . . . . . *P
F 5000 ( . . . . . X . . . . . *P
E 6300 ( . . . . . A+ X . . . . .
T 8000 ( . . . . . X . . . . . *P
10000 ( . . . . . X . . . . .
12500 ( . . . . . X X . . . . .
16000 ( . . . . . X X . . . . .
20000 ( . . . . .
25000 (-----)

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NOISE LEVEL IN DB

30    40    50    60    70    80    90    100    110

	20	30	40	50	60	70	80	90	100
200	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
S 630	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
L A 800	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
N T 1000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
D 1250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
I S 1600	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
T A 2900	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
N C 2500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
E 3150	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
I N 4000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
F 5000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
T 8000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(

FREQ	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB										MEAN	SD
	10	20	30	40	50	60	70	80				
50	.	.	.	.	.	.	.	.	.	.	73.9	1.8
63	.	.	.	.	.	.	.	.	.	X	73.4	1.6
80	.	.	.	.	.	.	.	.	X	X	72.8	3.0
100	.	.	.	.	.	.	.	.	.	X	74.2	2.4
125	.	.	.	.	.	.	.	.	.	X	77.7	1.5
160	.	.	.	.	.	.	.	.	.	X	77.5	.9
200	.	.	.	.	.	.	.	.	.	X	71.6	2.4
250	.	.	.	.	.	.	.	.	.	X	77.1	1.2
315	.	.	.	.	.	.	.	.	.	X	76.0	2.7
400	.	.	.	.	.	.	.	.	.	X	77.2	1.1
500	.	.	.	.	.	.	.	.	.	X	75.1	1.2
630	.	.	.	.	.	.	.	.	.	X	74.6	1.8
800	.	.	.	.	.	.	.	.	.	X	73.4	2.0
1000	.	.	.	.	.	.	.	.	.	X	71.8	1.0
1250	.	.	.	.	.	.	.	.	.	X	70.9	1.0
1600	.	.	.	.	.	.	.	.	.	X	69.0	1.0
2000	.	.	.	.	.	.	.	.	.	X	67.8	.9
2500	.	.	.	.	.	.	.	.	.	X	64.8	1.3
3150	.	.	.	.	.	.	.	.	.	X	61.6	1.8
4000	.	.	.	.	.	.	.	.	.	X	58.5	1.6
5000	.	.	.	.	.	.	.	.	.	X	53.7	1.2
6300	.	.	.	.	.	.	.	.	.	X	50.8	.8
8000	.	.	.	.	.	.	.	.	.	X	49.1	1.1
10000	.	.	.	.	.	.	.	.	.	X	49.0	2.3

F-15                      APPROACH POWER                      75 % RPM  
 AIRSPEED        = 170 KNOTS                      TEMP                      = 59 F  
 SLANT DISTANCE = 1000 FEET                      REL HUMID                = 70 %  
 NO. OF RECORDS = 8                                      IDENT: 0.6-06i-105-120977  
 PNLT = 94.0 PNDB  
 PNL = 93.5 PNDB  
 ALT = 82.2 DBA  
 AL = 81.6 DBA



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		A/C CODE: 061																							
( APPROACH POWER		OPS CODE: 105																							
( 75 % RPM		REL HUMID = 70 %																							
(		PROFILE VER: B																							
( AIRSPEED = 170 KNOTS		DELTA N = 0.0 DB																							
(		PAGE M4																							
SLANT		FREQUENCY BAND NUMBER																							
DISTANCE	(FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	87	87	87	88	92	92	86	91	90	92	90	89	88	87	87	85	84	82	80	79	76	76	79	87
250	86	85	85	86	86	90	90	84	89	88	90	88	87	86	85	84	83	82	80	78	77	73	73	76	83
315	84	83	83	84	88	88	88	82	87	86	88	86	85	84	83	82	81	80	78	76	74	70	70	73	79
400	82	81	81	82	86	86	86	80	85	84	86	84	83	82	81	80	79	78	75	73	71	68	67	69	75
500	80	79	79	80	84	84	84	78	83	82	84	81	81	80	79	78	75	75	73	71	69	65	64	65	70
630	78	77	77	78	82	82	82	76	81	80	81	79	79	78	76	76	74	73	70	68	66	61	60	61	64
800	76	75	75	76	80	80	80	74	79	78	79	77	77	76	74	73	71	70	68	65	62	58	56	55	57
1000	74	73	73	74	78	78	78	72	77	76	77	75	75	73	72	71	69	68	65	62	58	54	51	49	49
1250	72	71	71	72	76	76	76	70	75	74	75	73	72	71	69	68	66	65	62	58	54	49	45	42	39
1600	70	69	69	70	74	74	74	67	73	72	73	71	70	69	67	66	63	62	58	54	50	44	39	33	28
2000	68	67	67	68	71	71	71	65	71	70	71	68	68	66	64	63	60	59	54	50	44	38	31	23	14
2500	66	65	65	66	69	69	69	63	68	67	68	66	65	63	61	60	57	55	50	45	38	31	22	11	
3150	64	63	63	64	67	67	67	61	66	65	66	63	62	61	58	57	53	51	45	39	31	22	11		
4000	62	61	60	62	65	65	65	59	64	63	63	61	60	58	55	53	49	46	40	32	22	12			
5000	60	59	58	60	63	63	63	56	62	60	61	58	57	54	51	49	45	40	33	24	11				
6300	57	57	56	57	61	60	60	54	59	57	58	55	53	51	47	44	39	34	26	14					
8000	55	55	54	55	58	58	58	51	56	55	55	52	50	47	43	39	33	27	16	3					
10000	53	52	52	53	56	56	56	49	54	52	52	48	46	42	37	33	26	18	5						
12500	51	50	49	50	53	53	53	46	51	48	48	44	41	37	31	26	17	7							
16000	49	48	47	48	51	50	43	47	45	44	44	39	36	30	24	17	6								
20000	46	45	45	45	48	47	40	44	41	39	34	30	23	15	7										
25000	44	43	42	43	45	44	36	40	36	34	28	22	15	5											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-15	97.3	97.8	-10.1	110.7	97.4	98.1	100.9	OMEGA	6.6
	95.1	95.6	107.9	108.4	96.3	96.9	99.7		
	92.9	93.5	105.6	106.1	95.1	95.8	98.4		
	90.7	91.3	103.2	103.8	93.9	94.6	97.0		
	88.5	89.0	100.9	101.4	92.6	93.3	95.7		
	86.2	86.8	98.5	99.0	91.4	92.1	94.2		
	84.0	84.5	96.0	96.6	90.1	90.8	92.8		
	81.6	82.2	93.5	94.0	88.8	89.5	91.2		
	79.3	79.8	90.8	91.4	87.4	88.1	89.6		
	76.8	77.3	88.1	88.7	86.0	86.6	87.9		
	74.3	74.8	85.4	85.9	84.4	85.1	86.1		
	71.7	72.2	82.5	83.1	82.9	83.5	84.3		
	69.0	69.5	79.6	80.2	81.1	81.8	82.4		
	66.1	66.6	75.6	77.0	79.3	79.8	80.2		
	63.2	63.5	73.4	73.7	77.3	77.7	77.9		
	60.1	60.3	70.1	70.3	75.2	75.5	75.4		
	56.8	56.9	66.5	66.6	73.0	73.1	72.7		
	53.4	53.4	62.8	62.8	70.6	70.6	69.8		
	49.8	49.8	58.6	58.6	68.0	68.0	66.7		
	46.0	46.0	54.1	54.1	65.2	65.2	63.2		
	42.0	42.0	49.2	49.2	62.1	62.1	59.3		
	37.7	37.7	43.5	43.5	58.9	58.9	54.5		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



```

200 (-----ST--E)
    ( F-15 APPROACH POWER )
250 ( . 75 % RPM . . . . . )
315 ( . AIRSPEED = 170 KNOTS . . . . . )
    ( . TEMP = 59 F REL HUMID = 70 % . . . . . )
400 ( . DELTA N = 0.0 DB . . . . . )
    ( . NO. OF RECORDS: 8 . . . . . )
500 ( . IDENT: 6.6-061-105-120977-B . . . . . )
    ( . . . . . )
S 630 ( . . . . . )
L 800 ( . . . . . )
A 1000 ( . . . . . )
N 1250 ( . . . . . )
T 1600 ( . . . . . )
D 2000 ( . . . . . )
I 2500 ( . . . . . )
S 3150 ( . . . . . )
T 4000 ( . . . . . )
A 5000 ( . . . . . )
N 6300 ( . . . . . )
C 8000 ( . . . . . )
E 10000 ( . . . . . )
I 12500 ( . . . . . )
N 16000 ( . . . . . )
4000 ( . . . . . )
5000 ( . . . . . )
6300 ( . . . . . )
8000 ( . . . . . )
10000 ( . . . . . )
12500 ( . . . . . )
16000 ( . . . . . )
20000 ( . . . . . )
25000 ( . . . . . )

```

```

20 30 40 50 60 70 80 90 100
-----X-----E-----
NOISE LEVEL IN DB

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```

AIR TO GROUND
E = EPNL
T = SELT
S = SEL

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 061																							
( OPERATION:		OPS CODE: 105																							
( APPROACH POWER		PROFILE VER: B																							
( 75 % RPM		12 SEP 77																							
( 75 % RPM		PAGE L4																							
( AIRSPEED = 170 KNOTS		DELTA N = 0.0 DB																							
( METEOROLOGY:																									
( TEMP = 59 F																									
( REL HUMID = 70 %																									
( DELTA N = 0.0 DB																									
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	82	82	83	87	87	81	86	85	87	85	84	83	82	82	80	79	77	77	75	74	71	71	74	82
250	81	80	80	81	85	85	79	84	83	85	83	82	81	80	79	78	77	75	73	72	68	68	71	78	
315	79	78	78	79	83	83	77	82	81	83	81	80	79	78	77	76	75	73	71	69	65	65	68	74	
400	77	76	76	77	81	81	75	80	79	81	79	78	77	76	75	74	73	70	68	66	63	62	64	70	
500	75	74	74	75	79	78	72	78	77	79	76	76	75	74	73	71	70	68	66	64	60	59	60	65	
630	73	72	72	73	76	75	70	76	75	76	74	74	73	71	71	69	68	65	63	61	56	55	56	59	
800	71	70	70	71	73	73	67	73	73	74	72	72	71	69	68	66	65	63	60	57	53	51	50	52	
1000	69	68	68	68	70	70	54	70	71	72	70	70	68	67	66	64	63	60	57	53	49	46	44	44	
1250	67	66	65	65	67	67	61	67	68	70	68	67	66	64	63	61	60	57	53	49	44	40	37	34	
1600	65	63	61	61	64	63	57	63	65	68	66	65	64	62	61	58	57	53	49	45	39	34	28	23	
2000	62	60	58	58	60	59	53	59	61	66	63	63	61	59	58	55	54	49	45	39	33	26	18	9	
2500	58	56	54	53	56	55	49	55	57	62	61	60	58	56	55	52	50	45	40	33	26	17	6		
3150	54	51	49	48	51	50	44	50	53	58	57	57	56	53	52	48	46	40	34	26	17	6			
4000	50	46	44	43	45	44	38	44	47	53	54	54	53	50	48	44	41	35	27	17	7				
5000	45	41	39	39	40	40	33	39	41	47	49	50	49	46	44	40	35	28	19	6					
6300	39	37	34	33	36	35	28	34	35	42	45	45	45	42	39	34	29	21	9						
8000	37	35	32	31	33	32	26	31	33	39	42	42	41	38	34	28	22	11							
10000	35	32	30	29	31	30	23	29	30	36	38	38	36	32	28	21	13	0							
12500	33	30	27	26	28	27	20	26	26	32	34	33	31	26	21	12	2								
15000	31	28	25	24	26	24	17	22	23	28	29	28	24	19	12	1									
20000	28	25	23	21	23	21	14	19	19	23	24	22	17	10	2										
25000	26	23	20	19	20	18	11	15	14	18	18	14	9	0											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
OPERATIONS:										A/C CODE: 061	
APPROACH POWER										OPS CODE: 105	
75 % RPM										PROFILE VER: B	
METEOROLOGY:										12 SEP 77	
TEMP = 59 F										PAGE M4	
REL HUMID = 70 %											
AIRSPEED = 170 KNOTS										DELTA N = 0.0 DB	
AL											
ALTB**											
PNL											
PNL**											
SEL											
SEL**											
EPNL**											
EPNL**											
200	92.3	92.3	105.1	105.1	105.1	92.4	92.6	95.3			
250	90.1	90.1	102.8	102.8	102.8	91.3	91.4	94.0			
315	87.9	87.9	100.5	100.5	100.5	90.1	90.2	92.7			
400	85.7	85.7	98.2	98.2	98.2	88.9	89.0	91.4			
500	83.5	83.5	95.7	95.7	95.7	87.6	87.8	90.0			
630	81.2	81.2	93.2	93.2	93.2	86.3	86.5	88.5			
800	78.9	78.9	90.6	90.6	90.6	85.0	85.2	86.9			
1000	76.5	76.5	87.9	87.9	87.9	83.6	83.8	85.1			
1250	74.0	74.0	85.0	85.0	85.0	82.1	82.3	83.3			
1600	71.4	71.4	82.0	82.0	82.0	80.5	80.7	81.3			
2000	68.7	68.7	78.9	78.9	78.9	78.8	79.0	79.1			
2500	65.7	65.7	75.0	75.0	75.0	76.8	77.0	76.2			
3150	62.3	62.3	70.6	70.6	70.6	74.5	74.6	72.8			
4000	58.6	58.6	66.1	66.1	66.1	71.8	71.9	69.3			
5000	54.4	54.4	61.0	61.0	61.0	68.6	68.7	65.2			
6300	49.9	49.9	55.8	55.8	55.8	65.1	65.1	60.9			
8000	45.9	45.9	51.3	51.3	51.3	62.0	62.1	57.4			
10000	41.5	41.5	46.1	46.1	46.1	58.7	58.7	53.2			
12500	36.7	36.7	40.2	40.2	40.2	54.9	54.9	48.2			
16000	31.5	31.5	33.6	33.6	33.6	50.7	50.7	42.7			
20000	25.9	25.9	25.5	25.5	25.5	46.0	46.0	35.6			
25000	19.7	19.7	12.2	12.2	12.2	40.9	40.9	23.3			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

F-15 APPROACH POWER  
 75 % RPM  
 AIRSPEED = 170 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 8  
 IDENT: 6.6-061-105-120977-B

GROUND TO GROUND  
 P = PNL  
 \* = PNL  
 † = ALT  
 A = AL

200 (	F-15 APPROACH POWER										ST-E	
250 (	.	75 % RPM	.	.	.	.	.	.	.	.	.	.X E
315 (	.	AIRSPEED = 170 KNOTS	.	.	.	.	.	.	.	.	.	X E
400 (	.	TEMP = 59 F	.	REL HUMID = 70 %	.	.	.	.	.	.	.	X.E
500 (	.	DELTA N = 0.0 DB	.	.	.	.	.	.	.	.	.	X E
	.	NO. OF RECORDS: 8	.	.	.	.	.	.	.	.	.	X E
	.	IDENT: 6.6-061-105-120977-B	.	.	.	.	.	.	.	.	.	X E
S 630 (	.	.	.	.	.	.	.	.	.	.	.	X E
L 800 (	.	.	.	.	.	.	.	.	.	.	.	X E
A 1000 (	.	.	.	.	.	.	.	.	.	.	.	X E
N 1250 (	.	.	.	.	.	.	.	.	.	.	.	X E
T 1600 (	.	.	.	.	.	.	.	.	.	.	.	X E
D 2000 (	.	.	.	.	.	.	.	.	.	.	.	X E
I 2500 (	.	.	.	.	.	.	.	.	.	.	.	X E
S 3150 (	.	.	.	.	.	.	.	.	.	.	.	X E
T 4000 (	.	.	.	.	.	.	.	.	.	.	.	X E
A 5000 (	.	.	.	.	.	.	.	.	.	.	.	X E
N 6300 (	.	.	.	.	.	.	.	.	.	.	.	X E
C 8000 (	.	.	.	.	.	.	.	.	.	.	.	X E
E 10000 (	.	.	.	.	.	.	.	.	.	.	.	X E
3150 (	.	.	.	.	.	.	.	.	.	.	.	X E
4000 (	.	.	.	.	.	.	.	.	.	.	.	X E
5000 (	.	.	.	.	.	.	.	.	.	.	.	X E
6300 (	.	.	.	.	.	.	.	.	.	.	.	X E
8000 (	.	.	.	.	.	.	.	.	.	.	.	X E
10000 (	.	.	.	.	.	.	.	.	.	.	.	X E
12500 (	.	.	.	.	.	.	.	.	.	.	.	X E
16000 (	.	.	.	.	.	.	.	.	.	.	.	X E
20000 (	.	.	.	.	.	.	.	.	.	.	.	X E
25000 (	.	.	.	.	.	.	.	.	.	.	.	X E





TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 061																			
F-15A AIRCRAFT ( IDLE, 63% RPM ) TEMP = 59 F ) OPERATION CODE 02013																			
ENG F100-PW-100(1) ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP T NO. 0282 ( REL HUMID = 70 % ) 17 DEC 75																			
( DELTA N = -3.0 DB ) PAGE C1																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	57	59	58	61	61	62	60	59	58	61	61	61	61	63	64	63	63	61	61
63	59<	60<	59<	61<	62<	62<	61<	59<	59<	61<	61<	62<	62<	63<	64<	64<	64<	61<	60<
80	60<	61<	61<	62<	63<	63<	62<	60<	61<	61<	61<	62<	63<	63<	64<	65<	64<	61<	60<
100	61	62	62	63	64	64	63	61	62<	61	61	63	64	64	65	64	66	61	59<
125	63	63	63	64	64	63	62	63	63<	62	64	66	66	65	64	66	63<	59<	
160	65	65	66	66	65	65	66	66	64	67	67	69	70	70	70	68	70	65	59
200	65	65	65	62	61	62	61	62	61	64	64	66	66	66	68	66	65	61	54
250	66	67	64	62	63	62	61	60	61	61	63	65	67	68	67	67	64	60	56
315	65	65	63	61	62	59	60	58	60	59	62	64	68	66	67	65	64	60	56
400	67	68	65	64	62	60	61	58	60	60	62	65	65	65	66	67	65	60	50
500	66	65	63	62	60	56	56	53	56	57	60	61	64	63	64	63	61	56	56
630	67	65	64	62	60	57	55	52	55	56	60	60	65	65	65	63	61	57	58
800	68	66	67	64	59	60	58	55	57	59	60	61	63	64	65	65	63	60	58
1000	68	65	64	61	57	57	55	53	54	55	56	58	61	63	63	61	59	55	55
1250	73	72	70	65	61	61	60	57	56	56	57	57	61	62	62	60	60	56	54
1600	79	77	76	72	68	66	65	63	59	62	61	61	64	64	66	62	62	59	56
2000	76	75	74	71	69	67	64	62	59	57	60	59	61	64	64	60	60	57	54
2500	91	91	88	87	85	83	79	76	71	66	69	67	66	69	74	67	69	69	62
3150	93	92	90	89	87	85	83	80	76	71	73	71	71	73	78	70	73	72	66
4000	91	90	87	86	83	80	77	73	68	61	65	67	67	67	70	64	65	65	59
5000	90	89	86	85	83	81	79	73	69	64	67	70	70	70	73	66	67	68	61
6300	86	85	82	81	79	77	76	71	65	57	61	64	62	62	65	59	60	60	54
8000	84	83	81	79	77	74	72	67	61	55	60	63	60	60	62	57	58	55	50
10000	80	78	75	73	71	68	67	61	56	54	59	52	62	59	59	56	51	44<	
OVERALL	98	97	95	94	91	89	87	84	79	76	78	79	80	80	83	79	79	77	73

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS	METEOROLOGY																		
	TEMP = 59 F																		
F-15A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG F100-PM-100(1)	DELTA N = -3.0 DB																		
	OPERATIONS																		
GROUND RUNUP T NO. 0262	IDLE, 63% RPM																		
	SINGLE ENGINE																		
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-010																			
PUN 01																			
AIRCRAFT CODE 061																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
17 DEC 75																			
PAGE 01																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	114.2	113.5	110.9	110.0	107.6	106.0	103.5	100.7	96.8	92.7	95.3	95.0	95.3	96.6	99.6	94.0	95.4	94.2	88.5
250	111.9	111.1	108.6	107.7	105.2	103.6	101.2	98.4	94.4	90.4	92.9	92.7	92.9	94.3	97.3	91.7	93.1	91.9	86.2
315	109.4	108.7	106.1	105.2	102.8	101.2	98.8	96.0	92.1	88.0	90.6	90.3	90.6	91.9	95.0	89.4	90.7	89.5	83.8
400	106.9	106.2	103.6	102.7	100.3	98.7	96.2	93.5	89.6	85.5	88.1	87.8	88.1	89.5	92.5	86.9	88.2	87.0	81.4
500	104.3	103.5	101.0	100.1	97.6	96.1	93.6	90.9	86.9	82.9	85.5	85.2	85.5	86.9	89.9	84.3	85.6	84.4	78.8
630	101.5	100.7	98.2	97.3	94.8	93.3	90.8	88.1	84.2	80.2	82.7	82.4	82.7	84.2	87.2	81.6	82.9	81.6	76.0
800	98.5	97.7	95.2	94.3	91.8	90.3	87.8	85.1	81.2	77.3	79.7	79.4	79.8	81.2	84.3	78.7	80.0	78.7	73.1
1000	95.2	94.5	91.9	91.0	88.6	87.1	84.6	81.9	78.0	74.1	76.6	76.2	76.7	78.1	81.1	75.6	76.9	75.6	70.0
1250	91.7	91.0	88.4	87.5	85.1	83.5	81.0	78.4	74.6	70.7	73.2	72.8	73.2	74.7	77.7	72.3	73.5	72.2	66.6
1600	87.9	87.1	84.6	83.6	81.2	79.6	77.1	74.5	70.7	66.9	69.4	69.0	69.6	71.1	74.1	68.6	69.8	68.3	62.8
2000	83.6	82.9	80.3	79.4	76.9	75.4	72.8	70.2	66.5	62.8	65.2	64.8	65.5	67.0	69.9	64.6	65.7	64.2	58.7
2500	78.8	78.5	75.8	74.7	72.2	70.5	68.0	65.4	61.7	58.0	60.5	60.2	60.9	62.4	65.3	59.9	61.1	59.4	53.8
3150	73.8	73.5	70.9	69.7	67.1	65.4	62.5	59.8	56.1	52.5	55.2	54.7	55.6	57.2	60.1	54.8	55.7	53.9	48.3
4000	68.3	68.0	65.3	64.0	61.4	59.7	56.5	53.2	49.6	45.6	48.7	48.3	49.3	51.3	54.2	49.2	49.9	47.8	41.9
5000	61.9	61.7	59.0	57.7	54.9	53.0	49.9	46.1	42.0	37.8	41.3	40.6	42.9	44.0	47.4	42.5	42.2	40.1	34.6
6300	54.6	54.3	51.6	50.1	47.1	45.3	41.5	36.7	33.0	29.0	32.4	32.4	36.2	37.1	39.5	35.6	34.6	31.7	25.2
8000	46.2	45.8	42.8	41.0	37.2	34.5	30.2	24.5	19.9	15.3	20.7	23.4	29.3	30.1	31.8	28.6	26.5	16.5	12.6
10000	35.5	34.8	31.7	28.7	21.0	17.5	11.7	12.3	1.6	8.6	13.6	20.2	20.6	21.5	18.6	15.9	1.3	.1	
12500	28.1	16.4	12.5	16.3	4.8	.5	.1				4.0	10.4	7.9	9.6	6.6	5.4			
16000	4.6			4.0															
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-15A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG F100-PM-100(1)	DELTA N = 3.0 DB																		
GROUND RUNUP T NO. 0282																			
	ANGLE (DEGREE)																		
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
( 200	116.3	115.9	113.0	112.6	110.2	108.8	106.0	103.2	99.2	95.3	97.5	96.6	97.0	98.6	101.9	95.8	97.6	96.5	90.5
( 250	114.0	113.5	110.7	110.2	107.8	106.4	103.6	100.9	96.9	93.0	95.2	94.3	94.7	96.3	99.6	93.5	95.3	94.2	88.2
( 315	111.5	111.1	108.2	107.8	105.4	104.0	101.2	98.5	94.5	90.7	92.8	91.9	92.4	93.9	97.2	91.2	92.9	91.8	85.8
( 400	109.0	108.6	105.7	105.3	102.9	101.5	98.7	96.0	92.0	88.2	90.3	89.4	89.9	91.5	94.7	88.7	90.4	89.3	83.3
( 500	106.4	105.9	103.1	102.7	100.2	98.8	96.1	93.4	89.4	85.6	87.7	86.8	87.3	88.9	92.1	86.1	87.8	86.7	80.7
( 630	103.6	103.1	100.3	99.9	97.4	96.1	93.3	90.6	86.6	82.8	85.0	84.0	84.5	86.1	89.4	83.4	85.1	84.0	76.0
( 800	100.6	100.1	97.3	96.9	94.4	93.1	90.3	87.6	83.7	79.9	82.0	81.3	81.6	83.2	86.5	80.5	82.2	81.1	75.1
( 1000	97.3	96.9	94.0	93.6	91.2	89.9	87.0	84.4	80.5	76.7	78.8	77.8	78.4	80.1	83.4	77.4	79.1	77.9	72.0
( 1250	93.8	93.4	90.5	90.1	87.7	86.3	83.5	80.9	77.0	73.4	75.4	74.4	75.0	76.7	80.0	74.1	75.7	74.5	68.6
( 1600	90.0	89.5	86.7	86.2	83.8	82.4	79.6	77.0	73.2	69.5	71.7	70.6	71.4	73.0	76.3	70.4	72.0	70.7	64.8
( 2000	85.7	85.3	82.4	82.0	79.5	78.2	75.3	72.7	68.9	65.4	67.5	66.4	67.3	69.0	72.2	66.4	67.9	66.6	60.7
( 2500	80.9	80.9	77.9	77.3	74.8	73.3	70.5	67.9	64.2	60.6	62.8	61.9	62.7	64.4	67.6	61.7	63.3	61.7	55.8
( 3150	75.9	76.0	73.0	72.3	69.7	68.2	64.9	62.3	58.5	55.2	57.4	56.3	57.4	59.2	62.3	56.6	57.9	56.2	50.2
( 4000	70.0	69.9	67.0	66.1	63.5	61.9	58.5	55.2	51.5	47.7	50.5	49.6	50.8	52.9	56.0	50.6	51.7	49.6	43.5
( 5000	63.2	63.1	60.2	59.2	56.5	54.7	51.3	47.6	43.5	39.4	42.7	41.6	43.9	45.2	48.7	43.3	43.8	41.5	35.8
( 6300	55.5	55.3	52.4	51.1	48.1	46.4	42.5	37.7	34.0	30.0	33.8	33.1	36.9	37.9	40.4	36.4	35.5	32.6	26.0
( 8000	46.6	46.3	43.2	41.5	37.7	35.1	30.6	25.0	16.3	15.8	21.2	23.6	25.6	30.5	32.2	28.9	26.9	17.0	13.0
( 10000	35.5	34.8	31.7	28.7	21.0	17.5	11.7	12.3	1.6	8.6	13.6	20.2	20.2	20.5	21.5	18.6	15.9	1.3	.1
( 12500	20.1	16.4	12.5	16.3	4.8	.5	.1	.1	4.0	10.4	7.9	8.6	8.6	8.6	8.6	5.4	5.4		
( 16000	4.6			4.0															
( 20000																			
( 25000																			

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	3	10	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	101.2	100.6	97.8	96.9	94.5	92.6	89.8	86.6	82.0	77.2	79.9	79.8	90.0	81.2	84.5	78.6	79.8	79.2	73.4
250	98.8	98.2	95.5	94.6	92.1	90.2	87.5	84.3	79.6	74.9	77.6	77.4	77.7	79.0	82.2	76.4	77.6	76.9	71.1
315	96.4	95.8	93.1	92.2	89.7	87.8	85.0	81.9	77.3	72.6	75.2	75.0	75.3	76.6	79.8	74.1	75.2	74.6	68.8
400	93.9	93.3	90.5	89.6	87.2	85.3	82.5	79.4	74.8	70.2	72.8	72.5	72.8	74.2	77.4	71.7	72.8	72.1	66.4
500	91.2	90.6	87.9	87.0	84.5	82.7	79.8	76.8	72.2	67.6	70.2	69.9	70.3	71.7	74.9	69.2	70.3	69.6	63.9
630	88.4	87.8	85.1	84.2	81.7	80.0	77.1	74.0	69.5	65.0	67.5	67.2	67.7	69.0	72.2	66.7	67.7	66.9	61.3
900	85.4	84.9	82.1	81.3	78.8	77.0	74.1	71.1	66.6	62.2	64.7	64.3	64.9	66.3	69.4	64.0	65.0	64.0	58.6
1000	82.2	81.7	79.0	78.1	75.6	73.9	70.9	68.0	63.5	59.2	61.7	61.3	62.0	63.4	66.4	61.3	62.1	61.0	55.8
1250	78.8	78.3	75.5	74.7	72.2	70.5	67.5	64.6	60.2	56.1	58.6	58.1	58.9	60.3	63.2	58.4	59.0	57.9	52.8
1600	75.0	74.6	71.8	71.0	68.5	66.8	63.8	60.9	56.6	52.7	55.2	54.7	55.8	57.1	59.8	55.3	55.8	54.4	49.7
2000	71.0	70.6	67.8	66.9	64.4	62.8	59.7	56.9	52.6	49.1	51.5	51.2	52.5	53.7	56.2	52.2	52.3	50.7	46.4
2500	66.5	66.1	63.4	62.4	59.9	58.3	55.3	52.4	48.3	45.3	47.6	47.4	49.0	50.1	52.3	48.7	48.6	46.5	42.9
3150	61.6	61.2	58.5	57.4	54.9	53.3	50.3	47.4	43.6	41.1	43.4	43.4	45.3	46.3	48.2	45.1	44.7	42.4	39.2
4000	56.1	55.7	53.2	51.9	49.3	47.8	44.8	41.9	38.4	36.7	38.9	39.2	41.3	42.3	43.8	41.2	40.6	37.8	35.3
5000	50.2	49.7	47.3	45.8	43.1	41.5	38.7	35.8	33.0	32.1	34.2	34.6	37.0	37.9	39.1	36.9	36.1	33.0	30.9
6300	43.8	43.1	41.0	39.1	36.2	34.7	32.1	29.2	27.3	27.2	29.2	29.9	32.4	33.3	34.2	32.4	31.3	27.9	26.4
8000	37.3	36.3	34.6	32.2	29.0	27.0	25.6	22.7	22.2	22.8	24.8	25.7	28.5	29.1	29.8	28.3	27.1	23.4	22.2
10000	30.9	29.5	28.2	25.5	22.1	20.8	19.4	16.6	17.4	18.3	20.3	21.4	24.3	24.6	25.3	24.0	22.6	18.8	17.8
12500	24.6	23.1	22.0	19.4	16.0	14.7	13.7	10.9	12.5	13.5	15.5	16.8	19.7	19.8	20.5	19.3	17.8	13.9	13.1
16000	18.3	16.8	15.8	13.5	10.3	9.0	8.2	5.4	7.4	8.4	10.4	11.9	14.7	14.7	15.3	14.2	12.7	8.7	7.9
20000	12.0	10.6	9.5	7.5	4.7	3.2	2.6	0	2.0	2.9	5.0	6.6	9.3	9.1	9.7	8.7	7.2	3.1	2.2
25000	5.3	4.2	2.8	1.3					2.9	3.5	3.1	3.7	2.8	2.8	2.8	2.8	1.3		

IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-004-010  
 RUN 01  
 AIRCRAFT CODE 061  
 OPERATION CODE 02013  
 PROFILE VERSION A  
 17 DEC 75  
 PAGE F1

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DR

OPERATION:  
 IDLE, 63% RPM  
 SINGLE ENGINE

NOISE SOURCE/SUBJECT:  
 F-15A AIRCRAFT  
 ENG F100-PM-100(1)  
 GROUND RUNUP T NO. 0282

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-15A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG F100-PM-100(1)	DELTA N = -3.0 DB																		
GROUND RUNUP T NO. 0282	IDENTIFICATION:																		
	OMEGA 8.2																		
	TEST 74-004-010																		
	RUN 01																		
	AIRCRAFT CODE 061																		
	OPERATION CODE 02013																		
	PROFILE VERSION A																		
	17 DEC 75																		
	PAGE 61																		
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.3	103.0	99.9	99.5	97.1	95.4	92.3	89.1	84.4	79.8	82.1	81.4	81.0	83.2	86.7	80.4	82.1	81.6	75.3
250	101.0	100.6	97.6	97.2	94.7	93.0	89.9	86.8	82.1	77.6	79.8	79.0	79.4	80.9	84.4	78.2	79.8	79.3	73.1
315	98.5	98.2	95.1	94.8	92.3	90.6	87.5	84.4	79.7	75.2	77.5	76.6	77.1	78.6	82.1	75.9	77.5	76.9	70.7
400	96.0	95.7	92.6	92.2	89.8	88.1	85.0	81.9	77.3	72.8	75.0	74.1	74.6	76.2	79.6	73.5	75.0	74.5	68.3
500	93.3	93.0	90.0	89.6	87.1	85.5	82.3	79.3	74.7	70.3	72.5	71.5	72.1	73.7	77.1	71.0	72.5	71.9	65.9
630	90.5	90.2	87.2	86.8	84.3	82.8	79.5	76.5	71.9	67.6	69.8	68.8	69.4	71.0	74.4	68.5	69.9	69.2	63.3
800	87.5	87.3	84.2	83.8	81.4	79.8	76.6	73.6	69.0	64.8	67.0	65.9	66.7	68.3	71.6	65.8	67.2	66.4	60.6
1000	84.3	84.1	81.1	80.7	78.2	76.7	73.4	70.5	66.0	61.9	64.0	62.3	63.8	65.4	68.6	63.1	64.3	63.4	57.8
1250	80.9	80.7	77.6	77.3	74.8	73.3	70.0	67.1	62.6	58.7	60.8	59.7	60.7	62.3	65.4	60.1	61.2	60.2	54.8
1600	77.1	77.0	73.9	73.6	71.1	69.6	66.3	63.4	59.0	55.4	57.4	56.3	57.5	59.1	62.0	57.1	58.0	56.7	51.6
2000	73.1	73.0	69.9	69.5	67.0	65.6	62.2	59.4	55.1	51.8	53.8	52.8	54.3	55.7	58.4	54.0	54.5	53.0	48.4
2500	68.6	68.5	65.5	65.0	62.5	61.1	57.7	54.9	50.8	47.9	49.9	49.0	50.8	52.1	54.5	50.5	50.9	49.0	44.9
3150	63.7	63.6	60.6	60.0	57.5	56.2	52.8	49.9	46.0	43.7	45.7	45.0	47.1	48.3	50.4	46.9	46.9	44.7	41.2
4000	57.8	57.7	54.8	54.0	51.4	50.0	46.7	43.9	40.4	38.8	40.8	40.4	42.8	43.9	45.6	42.6	42.3	39.7	36.8
5000	51.5	51.1	48.6	47.3	44.6	43.2	40.2	37.3	34.4	33.6	35.5	35.6	38.1	39.1	40.4	38.0	37.4	34.4	32.1
6300	44.7	44.1	41.8	40.1	37.2	35.8	33.1	30.2	28.3	28.3	30.1	30.5	33.2	34.1	35.1	33.1	32.2	28.9	27.2
8000	37.8	36.8	35.0	32.7	29.5	28.1	26.1	23.2	22.7	23.3	25.2	26.1	28.8	29.4	30.3	28.7	27.5	23.9	22.6
10800	30.9	29.5	28.2	25.5	22.1	20.8	19.4	16.6	17.4	18.3	20.3	21.4	24.3	24.6	25.3	24.0	22.5	18.8	17.8
12500	24.6	23.1	22.0	19.4	16.0	14.7	13.7	10.9	12.5	13.5	15.5	16.8	19.7	19.8	20.5	19.3	17.8	13.9	13.1
16000	18.3	16.8	15.8	13.5	10.3	9.0	8.2	5.4	7.4	8.4	10.4	11.9	14.7	14.7	15.3	14.2	12.7	8.7	7.9
20000	12.0	10.6	9.5	7.5	4.7	3.2	2.6	.0	2.0	2.9	5.0	6.6	9.3	9.1	9.7	8.7	7.2	3.1	2.2
25000	5.3	4.2	2.8	1.3								.9	3.5	3.1	3.7	2.8	1.3		

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 061  
 F-15A AIRCRAFT ( IDLE, 63% RPM ) TEMP = 59 F ) OPERATION CODE 02013  
 ENG F100-PM-100(1) ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A  
 GROUND RUNUP T NO. 0282 ( ) REL HUMID = 70 % ) 17 DEC 75  
 ( ) DELTA N = -3.0 DB ) PAGE J1

P=PNLT A=AL T=ALT

ANGLE IN DEGREES	20	30	40	50	60	70	80	90	100	110	120
0	.	.	.	.	.	.	.	.	.	.	.
10	.	.	.	.	.	.	.	.	.	.	.
20	.	.	.	.	.	.	.	.	.	.	.
30	.	.	.	.	.	.	.	.	.	.	.
40	.	.	.	.	.	.	.	.	.	.	.
50	.	.	.	.	.	.	.	.	.	.	.
60	.	.	.	.	.	.	.	.	.	.	.
70	.	.	.	.	.	.	.	.	.	.	.
80	.	.	.	.	.	.	.	.	.	.	.
90	.	.	.	.	.	.	.	.	.	.	.
100	.	.	.	.	.	.	.	.	.	.	.
110	.	.	.	.	.	.	.	.	.	.	.
120	.	.	.	.	.	.	.	.	.	.	.
130	.	.	.	.	.	.	.	.	.	.	.
140	.	.	.	.	.	.	.	.	.	.	.
150	.	.	.	.	.	.	.	.	.	.	.
160	.	.	.	.	.	.	.	.	.	.	.
170	.	.	.	.	.	.	.	.	.	.	.
180	.	.	.	.	.	.	.	.	.	.	.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 061																			
F-15A AIRCRAFT ( ENGINE RUNUP, 80% RPM ) TEMP = 59 F ) OPERATION CODE 0101																			
ENG F100-PH-100(1) ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP T NO. 0282 ( REL HUMID = 70 % ) 17 DEC 75																			
( DELTA N = 0.0 DB ) PAGE C2																			
BAND CENTER																			
FREQ (HZ):																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	73	72	73	76	77	77	77	80	78	82	83	82	87	94	98	102	103	93	83
63	75	75	76	76	77	79	78	79	81	83	84	85	89	94	104	105	105	95	85
90	77	79	79	79	78	80	81	82	82	85	87	89	93	98	105	108	106	96	86
100	81	79	82	81	82	82	83	84	84	87	88	90	95	100	106	110	104	98	88
125	85	85	88	87	86	86	87	87	88	90	90	93	98	105	108	112	111	101	91
160	85	84	86	85	85	85	86	87	88	91	92	95	99	109	112	113	113	103	93
200	86	86	86	85	86	85	85	88	88	90	93	96	100	107	114	110	114	104	94
250	87	86	85	87	85	85	85	88	88	89	91	96	100	107	112	112	115	105	95
315	84	85	86	86	86	84	84	87	88	88	93	95	101	107	109	113	113	103	93
400	85	86	87	85	84	82	82	86	86	87	92	94	99	103	108	110	110	100	90
500	85	86	85	84	83	80	80	84	86	86	89	92	98	102	106	106	108	98	88
630	85	85	86	83	82	81	80	83	85	85	88	90	96	100	104	104	106	96	86
800	83	83	84	81	79	80	79	81	84	83	85	88	94	98	102	101	102	92	82
1000	81	81	82	79	77	79	79	81	84	83	84	88	93	98	101	98	99	89	79
1250	81	82	81	79	77	79	79	80	84	82	83	87	91	96	98	95	94	84	74
1600	81	82	83	81	79	79	80	81	83	83	83	87	91	96	96	92	90	80	70
2000	80	82	82	81	80	80	81	81	82	81	82	86	91	94	94	89	87	77	67
2500	80	81	81	80	79	80	80	81	81	81	81	85	89	92	91	86	85	75	65
3150	81	82	81	81	79	80	80	80	81	80	81	85	88	90	88	84	82	72	62
4000	85	87	85	84	83	82	81	81	81	81	82	86	88	89	87	83	81	71	61
5000	84	86	85	83	82	81	78	79	78	77	80	83	84	86	84	79	77	67	57
6300	81	82	81	80	80	79	78	76	75	74	77	80	80	83	81	76	74	64	54
8000	78	80	79	78	77	76	75	74	74	73	76	79	79	82	81	77	76	66	56
10000	75	76	75	74	72	72	70	70	70	70	73	75	76	80	80	78	78	68	58
OVERALL	97	97	97	97	96	95	95	97	98	99	102	104	109	116	120	121	122	112	102

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	111.4	112.8	111.9	110.5	109.5	109.0	108.6	109.4	110.0	110.1	112.0	115.4	119.0	124.2	127.4	127.5	128.1	118.1	108.1
250	109.1	113.4	109.6	106.2	107.2	106.7	106.3	107.1	107.8	107.8	109.7	113.1	116.9	122.1	125.3	125.5	126.1	116.0	106.0
315	106.7	108.0	107.2	105.8	104.8	104.3	104.0	104.8	105.4	105.4	107.4	110.8	114.7	120.0	123.2	123.4	124.0	113.9	103.8
400	104.2	105.5	104.7	103.4	102.3	101.8	101.5	102.4	103.1	103.0	105.2	108.4	112.5	117.8	121.0	121.2	121.8	111.6	101.7
500	101.6	102.9	102.1	100.8	99.7	99.2	98.9	99.9	100.6	100.6	102.8	105.9	110.2	115.5	118.7	119.0	119.6	109.6	98.4
600	98.3	100.1	99.4	98.0	97.0	96.4	96.2	97.3	98.0	98.0	100.4	103.2	107.8	113.2	116.2	116.8	117.2	107.1	96.9
800	95.8	97.1	96.4	95.0	94.0	93.5	93.4	94.5	95.2	95.3	97.9	100.7	105.4	110.7	113.6	114.5	114.7	104.6	94.3
1000	92.6	93.9	93.2	91.8	90.8	90.3	90.3	91.6	92.4	92.5	95.2	98.0	102.7	108.2	110.9	112.0	112.3	102.1	91.8
1250	89.2	90.4	89.7	88.4	87.3	86.9	87.2	88.5	89.3	89.4	92.4	95.0	99.9	105.2	108.2	109.1	109.4	99.1	88.8
1600	85.4	86.6	86.0	84.8	83.7	83.6	83.8	85.2	86.3	86.1	89.4	92.0	97.0	101.9	105.4	105.9	106.2	96.0	85.6
2000	81.7	82.4	82.7	81.3	80.2	80.0	80.3	82.0	83.2	82.9	86.3	88.9	93.9	98.4	102.4	102.8	103.2	93.2	82.6
2500	78.0	78.7	78.7	77.4	76.2	76.0	76.3	78.0	79.3	79.3	82.4	85.0	90.0	94.6	98.7	99.0	99.4	89.2	78.8
3150	73.9	74.5	74.7	73.2	71.9	71.6	71.9	73.6	74.9	74.9	78.0	80.6	85.9	90.5	94.4	94.8	95.2	84.9	74.5
4000	69.3	70.0	70.2	68.5	67.1	66.6	67.0	68.7	70.3	70.4	73.1	76.1	81.4	86.0	89.8	89.9	90.7	80.3	69.9
5000	64.4	65.0	65.3	63.5	62.1	61.5	61.8	63.7	65.4	65.5	68.2	71.2	76.7	81.2	85.1	85.0	86.0	75.6	65.1
6300	59.1	59.7	60.0	58.2	56.7	56.2	56.2	58.5	60.2	60.2	63.1	66.1	71.6	76.3	80.2	80.1	81.2	70.7	60.0
8000	54.8	55.3	55.6	53.8	52.3	51.5	51.2	54.1	56.0	56.0	59.0	62.1	67.7	72.4	76.6	76.6	77.7	67.2	56.3
10000	50.1	50.6	50.8	49.1	47.5	46.2	45.8	49.2	51.3	51.3	54.6	57.7	63.5	68.4	72.7	72.8	73.9	63.3	52.3
12500	44.5	45.1	45.2	43.7	41.8	39.9	40.1	43.8	46.0	46.0	49.8	52.9	58.9	63.9	68.4	68.7	69.8	59.1	47.8
16000	38.3	38.9	38.4	36.8	35.2	33.1	32.7	37.4	39.8	39.7	44.1	47.5	53.8	59.1	63.7	64.1	65.3	54.4	42.5
20000	31.0	31.6	30.7	29.8	27.7	24.1	23.5	29.7	32.4	32.7	37.6	41.1	48.2	53.6	58.5	59.2	60.3	49.1	36.1
25000	20.4	21.6	20.3	18.7	15.2	10.8	10.4	19.5	22.3	22.1	29.9	33.7	41.2	47.3	52.7	53.8	54.7	42.4	28.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	OPERATION																			
	ENGINE RUNUP, 80% RPM																			
F-15A AIRCRAFT																				
ENG F100-PW-10C(1)																				
GROUND RUNUP T NO. 0262																				
METEORLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DR																				
PAGE 52																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-010																				
RUN 02																				
AIRCRAFT CODE 061																				
OPERATION CODE 01019																				
PROFILE VERSION A																				
17 DEC 75																				
PAGE 52																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	111.4	113.8	112.6	111.3	110.0	109.0	108.6	109.4	110.0	110.1	112.0	115.4	119.0	124.7	127.4	127.5	124.1	118.1	108.1	
250	109.1	111.5	110.3	109.0	107.7	106.7	106.3	107.1	107.6	107.3	109.7	113.1	116.9	122.6	125.3	125.5	126.1	116.0	106.0	
315	106.7	109.1	107.9	106.6	105.4	104.3	104.0	104.8	105.4	105.4	107.4	110.3	114.7	120.5	123.2	123.4	124.0	113.9	103.9	
400	104.2	106.6	105.4	104.1	102.9	101.9	101.5	102.4	103.1	103.0	105.2	109.4	112.5	118.3	121.0	121.2	121.6	111.8	101.7	
500	101.6	104.0	102.8	101.5	100.3	99.2	98.9	99.9	100.6	100.6	102.8	105.9	110.2	116.0	118.7	119.0	119.6	109.6	99.4	
630	98.8	101.2	100.0	98.7	97.5	96.4	96.2	97.3	98.0	98.0	100.4	103.2	107.6	113.7	115.2	116.8	117.2	107.1	96.9	
800	95.8	98.2	97.1	95.8	94.5	93.5	93.4	94.5	95.2	95.3	97.9	100.7	105.4	111.2	113.6	114.5	114.7	104.6	94.3	
1000	92.6	95.0	93.9	92.0	91.3	90.3	90.3	91.6	92.4	92.5	95.2	98.0	102.7	108.7	110.9	112.0	112.3	102.1	91.8	
1250	89.2	91.5	90.4	89.1	87.8	86.9	87.2	88.5	89.3	89.4	92.4	95.0	99.9	105.7	108.2	109.1	109.4	99.1	88.8	
1600	85.4	87.6	86.7	85.0	84.2	83.6	83.8	85.2	86.3	86.1	89.4	92.0	97.0	102.4	105.4	105.9	106.2	96.0	85.6	
2000	81.7	83.5	83.3	82.0	80.8	80.0	80.3	82.0	83.2	82.3	86.3	88.9	93.9	98.9	102.4	102.8	103.2	93.0	82.6	
2500	78.0	79.8	79.3	78.1	76.7	76.0	76.3	78.0	79.3	79.0	82.4	85.0	90.0	95.1	98.7	99.0	99.4	89.2	78.8	
3150	73.9	75.6	75.4	73.9	72.4	71.6	71.9	73.6	74.9	74.9	78.0	80.6	85.9	91.0	94.4	94.8	95.2	84.9	74.5	
4000	69.3	70.9	70.7	69.1	67.6	66.6	67.0	68.7	70.3	70.4	73.1	76.1	81.4	86.4	89.8	89.9	90.7	80.3	69.9	
5000	64.4	65.7	65.7	63.9	62.4	61.5	61.8	63.7	65.4	65.5	68.2	71.2	76.7	81.5	85.1	85.0	86.0	75.6	65.1	
6300	59.1	60.2	60.3	58.5	56.9	56.2	56.2	58.5	60.2	60.2	63.1	66.1	71.6	76.5	80.2	80.1	81.2	70.7	60.0	
8000	54.8	55.5	55.8	54.0	52.4	51.5	51.2	54.1	56.0	56.0	59.0	62.1	67.7	72.5	76.6	76.6	77.7	67.2	56.3	
10000	50.1	50.6	50.8	49.1	47.5	46.2	45.8	49.2	51.3	51.3	54.6	57.7	63.5	68.4	72.7	72.8	73.9	63.3	52.3	
12500	44.5	45.1	45.2	43.7	41.8	39.9	40.1	43.8	46.0	46.0	49.8	52.9	58.9	63.9	68.4	68.7	69.8	59.1	47.8	
16000	38.3	38.9	38.4	36.8	35.2	33.1	32.7	37.4	39.8	39.7	44.1	47.5	53.8	59.1	63.7	64.1	65.3	54.4	42.5	
20000	31.0	31.6	30.7	29.8	27.7	24.1	23.5	29.7	32.4	32.7	37.6	41.1	48.2	53.6	58.5	59.2	60.3	49.1	36.1	
25000	20.4	21.6	20.3	18.7	15.2	10.8	10.4	19.5	22.3	22.1	29.9	33.7	41.2	47.3	52.7	53.8	54.7	42.4	28.8	

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.4	97.6	97.0	95.6	94.3	94.0	93.8	95.1	96.4	96.0	98.4	101.5	106.1	111.0	114.5	114.7	115.9	105.9	95.9
250	94.1	95.3	94.8	93.3	92.1	91.7	91.6	92.9	94.2	93.9	96.3	99.4	104.0	108.9	112.4	112.6	113.9	103.9	93.9
315	91.8	92.9	92.5	91.0	89.8	89.5	89.4	90.7	92.0	91.7	94.1	97.2	101.9	106.6	110.4	110.6	111.8	101.8	91.8
400	89.5	90.5	90.2	88.7	87.4	87.1	87.1	88.5	89.8	89.5	92.0	95.0	99.8	104.7	108.3	108.5	109.7	99.7	89.7
500	87.1	88.1	87.8	86.3	85.0	84.7	84.7	86.2	87.6	87.3	89.7	92.3	97.6	102.5	106.1	106.4	107.6	97.6	87.6
630	84.6	85.5	85.3	83.8	82.5	82.2	82.2	83.8	85.3	84.9	87.5	90.5	95.3	100.2	103.8	104.2	105.3	95.3	85.3
800	82.0	82.9	82.8	81.2	79.9	79.7	79.7	81.4	82.9	82.5	85.1	88.1	93.0	97.9	101.5	101.9	103.0	93.0	83.0
1000	79.4	80.2	80.2	78.6	77.3	77.0	77.1	78.8	80.4	80.1	82.7	85.7	90.7	95.5	99.1	99.6	100.7	90.7	80.7
1250	76.7	77.4	77.5	75.9	74.5	74.3	74.4	76.2	77.9	77.5	80.2	83.1	88.1	92.9	96.6	97.0	98.1	88.1	78.1
1600	73.9	74.6	74.7	73.0	71.7	71.4	71.5	73.4	75.2	74.8	77.6	80.4	85.5	90.2	93.9	94.3	95.4	85.4	75.4
2000	71.1	71.7	71.9	70.1	68.7	68.5	68.5	70.6	72.4	72.0	74.8	77.6	82.8	87.4	91.2	91.6	92.6	82.6	72.6
2500	68.0	68.6	68.8	67.0	65.5	65.3	65.3	67.4	69.4	69.0	71.7	74.5	79.8	84.3	88.1	88.3	89.4	79.4	69.4
3150	64.7	65.2	65.5	63.6	62.0	61.9	61.8	64.0	66.0	65.6	68.3	71.1	76.4	80.8	84.7	84.7	85.9	75.9	65.9
4000	61.0	61.5	61.8	59.8	58.2	58.1	58.0	60.2	62.3	61.9	64.4	67.3	72.6	77.1	80.9	80.7	81.9	71.9	61.9
5000	56.9	57.4	57.7	55.6	53.9	54.0	53.8	55.9	58.2	57.8	60.2	63.1	68.4	72.8	76.6	76.3	77.6	67.6	57.6
6300	52.5	52.9	53.2	51.1	49.4	49.5	49.3	51.5	53.8	53.3	55.7	58.7	64.0	68.4	72.2	71.8	73.1	63.1	53.1
8000	48.6	49.0	49.3	47.2	45.5	45.4	45.1	47.5	49.8	49.4	51.9	54.8	60.2	64.6	68.6	68.3	69.7	59.7	49.7
10000	44.3	44.8	45.0	43.0	41.4	41.0	40.7	43.2	45.4	45.1	47.9	50.5	55.2	59.5	64.6	64.6	65.9	55.9	45.9
12500	39.7	40.2	40.4	38.4	36.9	36.3	35.9	38.7	40.8	40.5	43.6	46.2	51.8	56.2	60.4	60.5	61.8	51.8	41.8
16000	34.7	35.2	35.3	33.5	32.1	31.2	30.7	33.8	35.7	35.6	38.9	41.3	47.0	51.4	55.7	56.0	57.3	47.3	37.3
20000	29.2	29.8	29.8	28.2	26.9	25.7	25.3	29.5	30.3	30.2	33.8	36.1	41.8	46.3	50.7	51.2	52.5	42.5	32.5
25000	23.2	23.7	23.8	22.4	21.3	19.9	19.6	22.9	24.4	24.5	28.2	30.5	36.1	40.9	45.3	46.0	47.2	37.2	27.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
( DISTANCE ( FEET)	AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
( 200	76.4	98.6	97.7	96.3	94.8	94.0	93.8	95.1	96.4	96.0	98.4	101.5	106.1	111.5	114.5	114.7	115.9	105.9	55.9
( 250	94.1	96.4	95.5	94.0	92.6	91.7	91.6	92.9	94.2	93.9	96.3	99.4	104.0	109.4	112.4	112.6	113.9	103.9	93.9
( 315	91.8	94.0	93.2	91.7	90.3	89.5	89.4	90.7	92.0	91.7	94.1	97.2	101.9	107.3	110.4	110.6	111.8	101.8	91.8
( 400	89.5	91.6	90.8	89.4	87.9	87.1	87.1	88.5	89.8	89.5	92.0	95.0	99.8	105.2	108.3	108.5	109.7	99.7	89.7
( 500	87.1	89.2	88.4	87.0	85.5	84.7	84.7	86.2	87.6	87.3	89.7	92.8	97.6	103.0	106.1	106.4	107.6	97.6	87.6
( 630	84.6	86.6	86.0	84.5	83.0	82.2	82.2	83.8	85.3	84.9	87.5	90.5	95.3	100.7	103.8	104.2	105.3	95.3	85.3
( 800	82.0	84.0	83.4	82.0	80.5	79.7	79.7	81.4	82.9	82.5	85.1	88.1	93.0	98.4	101.5	101.9	103.0	93.0	83.0
( 1000	79.4	81.3	80.8	79.3	77.8	77.0	77.1	78.8	80.4	80.1	82.7	85.7	90.7	96.0	99.1	99.6	100.7	90.7	80.7
( 1250	76.7	78.5	78.1	76.6	75.0	74.3	74.4	76.2	77.9	77.5	80.2	83.1	88.1	93.4	96.6	97.0	98.1	88.1	78.1
( 1600	73.9	75.7	75.4	73.8	72.2	71.4	71.5	73.4	75.2	74.8	77.6	80.4	85.5	90.7	93.9	94.3	95.4	85.4	75.4
( 2000	71.1	72.8	72.6	70.9	69.3	68.5	68.5	70.6	72.4	72.0	74.8	77.6	82.8	87.9	91.2	91.6	92.6	82.6	72.6
( 2500	68.0	69.7	69.5	67.7	66.1	65.3	65.3	67.4	69.4	68.9	71.7	74.5	79.8	84.8	88.1	88.3	89.4	79.4	69.4
( 3150	64.7	66.3	66.2	64.3	62.6	61.9	61.8	64.0	66.0	65.6	68.3	71.1	76.4	81.3	84.7	84.7	85.9	75.9	65.9
( 4000	61.0	62.4	62.3	60.4	58.6	58.1	58.0	60.2	62.3	61.9	64.4	67.1	72.6	77.5	80.9	80.7	81.9	71.9	61.9
( 5000	56.9	58.0	58.1	56.0	54.2	54.0	53.8	55.9	58.2	57.8	60.2	63.1	68.4	73.1	76.6	76.3	77.6	67.6	57.6
( 6300	52.5	53.4	53.5	51.4	49.6	49.5	49.3	51.5	53.8	53.3	55.7	58.7	64.0	68.6	72.2	71.8	73.1	63.1	53.1
( 8000	48.6	49.2	49.4	47.3	45.6	45.4	45.1	47.5	49.8	49.4	51.9	54.8	60.2	64.7	68.6	68.3	69.7	59.7	49.7
( 10000	44.3	44.8	45.0	43.0	41.4	41.0	40.7	43.2	45.4	45.1	47.9	50.6	56.2	60.5	64.6	64.6	65.0	55.9	45.9
( 12500	39.7	40.2	40.4	38.4	36.9	36.3	35.9	38.7	40.8	40.5	43.6	46.2	51.8	56.2	60.4	60.5	61.8	51.8	41.8
( 16000	34.7	35.2	35.3	33.5	32.1	31.2	30.7	33.6	35.7	35.6	38.9	41.3	47.0	51.4	55.7	56.0	57.3	47.3	37.3
( 20000	29.2	29.8	29.8	28.2	26.9	25.7	25.3	28.5	30.3	30.2	33.8	36.1	41.8	46.3	50.7	51.2	52.5	42.5	32.5
( 25000	23.2	23.7	23.8	22.4	21.3	19.9	19.6	22.9	24.4	24.5	28.2	30.5	36.1	40.9	45.3	46.0	47.2	37.2	27.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-15A AIRCRAFT  
 ENG F100-PW-130(1)  
 GROUND RUNUP Y NO. J282  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-010  
 RUN 02  
 AIRCRAFT CODE 061  
 OPERATION CODE 01019  
 PROFILE VERSION A  
 17 DEC 75  
 PAGE J2

ANGLE	NOISE LEVEL IN PND B OR DBA											
	30	40	50	60	70	80	90	100	110	120	130	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:	OPERATION:			METEOROLOGY:			IDENTIFICATION:												
	F-15A AIRCRAFT	INTERMEDIATE POWER (MIL)	TEMP	BAR PRESS = 29.92 IN HG	REL HUMID = 70 %	DELTA N = 0.0 DB	AIRCRAFT CODE 061	OPERATION CODE 01006	PROFILE VERSION A	17 DEC 75	PAGE C3								
ENG F100-PW-100(1)	90% RPM	SINGLF ENGINE	ANGLE (DEGREES)																
GROUND RUNUP	T NO. 0282	(	(	(	(	(	(	(	(	(	(	(							
BAND CENTER	FREQ (HZ)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	81	80	81	83	82	83	85	86	88	88	89	91	97	102	106	111	106	96	86
63	82	83	84	85	85	85	86	86	87	90	92	94	93	106	111	113	107	97	87
80	85	85	87	86	87	86	88	89	90	92	94	95	100	107	114	116	110	100	90
100	88	87	89	88	88	90	90	91	91	94	97	97	103	110	116	118	109	99	89
125	92	91	93	90	91	91	92	93	94	96	98	101	107	114	116	119	111	101	91
160	94	94	95	92	93	92	93	93	96	98	101	104	112	119	118	121	112	102	92
200	95	94	94	93	93	93	94	94	95	98	101	104	110	117	120	118	110	100	90
250	92	93	94	94	94	93	93	94	96	97	101	104	111	118	121	117	109	99	89
315	94	95	97	94	93	92	92	94	96	97	101	105	111	119	118	118	109	99	89
400	96	97	97	95	93	91	90	92	96	95	102	104	111	115	117	117	107	97	87
500	99	99	99	96	92	90	89	91	95	94	99	102	109	114	115	114	105	95	85
630	99	99	101	98	94	93	91	92	95	93	99	100	108	112	115	113	111	96	82
800	97	97	100	97	94	96	93	93	95	92	97	98	104	111	113	111	99	89	79
1000	93	93	95	94	92	94	95	95	95	92	96	98	102	111	112	109	96	86	76
1250	90	93	93	92	90	91	93	94	96	93	96	97	99	110	111	107	95	85	75
1600	89	92	94	93	90	91	92	93	96	94	97	97	98	110	111	106	95	85	75
2000	87	90	92	92	91	92	93	94	95	94	98	97	98	110	109	104	93	83	73
2500	85	88	89	89	89	90	92	93	93	93	98	97	95	109	109	103	91	81	71
3150	83	86	88	88	88	83	90	91	92	93	97	96	93	109	108	103	87	77	67
4000	83	85	87	88	87	90	91	92	93	93	97	96	93	110	108	103	86	76	66
5000	78	80	82	82	82	84	85	87	87	80	90	94	93	108	107	101	81	71	61
6300	77	78	80	81	80	83	84	85	87	87	91	92	90	107	107	100	76	66	56
8000	76	78	79	80	79	81	83	85	86	86	91	91	89	107	108	102	77	67	57
10000	71	72	74	74	74	77	78	80	82	82	87	90	86	108	109	100	76	56	56
OVERALL	106	107	108	106	104	105	105	106	108	108	112	114	120	127	128	128	120	110	100

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>180	
200	116.5	117.4	119.0	117.8	116.5	117.8	118.5	119.7	121.3	120.8	125.1	125.5	129.7	139.1	139.2	136.8	125.9	115.9	105.8
250	114.4	115.2	116.9	115.6	114.3	115.6	116.2	117.4	118.8	118.6	122.8	123.2	126.6	136.8	137.0	134.6	123.8	113.8	103.7
315	112.2	113.1	114.7	113.3	112.1	113.3	113.9	115.0	116.5	116.3	120.5	120.9	124.5	134.5	134.7	132.4	121.7	111.7	101.6
400	110.0	110.8	112.4	111.0	109.8	110.9	111.6	112.7	114.1	113.9	118.1	118.5	122.3	132.0	132.5	130.2	119.6	109.6	99.4
500	107.7	108.5	110.1	108.7	107.3	108.5	109.1	110.2	111.6	111.4	115.7	116.0	120.0	129.5	130.1	127.9	117.4	107.3	97.1
630	105.4	106.2	107.8	106.2	104.8	105.9	106.6	107.7	109.1	108.8	113.1	113.5	117.6	126.8	127.5	125.5	115.1	105.0	94.7
800	102.9	103.7	105.3	103.6	102.2	103.3	104.0	105.0	106.4	106.0	110.4	110.9	115.2	124.3	124.8	123.1	112.7	102.6	92.3
1000	100.4	101.1	102.8	100.8	99.4	100.5	101.1	102.1	103.8	103.1	107.5	108.1	112.7	121.5	122.0	120.5	110.2	100.1	89.7
1250	97.7	98.4	100.0	98.0	96.5	97.5	98.1	99.0	100.6	100.6	104.5	105.3	110.0	118.5	119.2	117.8	107.3	97.1	86.7
1600	94.9	95.6	97.2	95.1	93.3	94.3	94.9	95.7	97.4	96.7	101.1	102.3	107.2	115.2	116.2	114.9	104.5	94.3	83.8
2000	92.0	92.6	94.2	92.0	89.9	90.9	91.4	92.2	94.0	93.1	97.5	99.2	104.2	111.7	113.1	111.9	101.5	91.2	80.7
2500	88.7	89.3	90.9	88.6	86.3	87.1	87.6	88.3	90.4	89.2	93.6	95.3	100.4	107.9	109.3	108.1	97.6	87.3	76.8
3150	85.1	85.8	87.4	85.0	82.6	83.2	83.4	84.1	86.3	85.0	89.3	91.0	96.4	103.8	105.0	103.8	93.3	82.9	72.5
4000	81.0	81.7	83.3	80.9	78.3	79.1	79.5	79.5	81.8	80.4	84.6	86.2	92.0	99.3	100.6	99.0	88.7	78.3	67.8
5000	76.4	77.1	78.8	76.2	73.6	74.6	74.0	74.6	76.9	75.4	79.7	81.3	87.3	94.4	95.9	94.1	83.9	73.5	62.9
6300	71.6	72.2	73.9	71.3	68.6	69.6	69.0	69.4	71.5	70.0	74.6	76.3	82.4	89.4	90.9	89.2	79.0	68.5	57.7
8000	67.6	68.2	69.9	67.1	64.4	65.1	64.3	64.7	66.8	65.5	70.4	72.3	78.7	85.4	86.9	85.5	75.4	64.8	53.7
10000	63.2	63.7	65.4	62.6	59.7	60.3	59.0	59.5	62.2	60.9	66.0	68.0	74.7	81.2	82.6	81.6	71.5	60.8	49.4
12500	58.6	58.8	60.5	57.5	54.6	54.8	53.3	54.0	57.3	56.0	61.2	63.5	70.4	76.8	78.3	77.3	67.3	56.3	44.2
16000	53.6	53.4	55.0	51.9	48.9	48.4	46.7	48.0	51.7	50.5	55.9	58.4	65.6	72.0	73.5	72.8	62.7	51.3	38.4
20000	47.8	47.5	49.8	45.3	41.9	40.9	39.6	41.2	45.4	44.1	50.1	52.8	60.3	66.7	68.3	67.7	57.6	45.5	31.8
25000	40.7	40.5	41.5	37.5	33.7	32.5	31.2	33.3	37.8	36.5	43.3	46.5	54.3	60.8	62.6	62.5	51.8	38.9	21.0

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-15A AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG F100-PW-100(1)	REL HUMID = 79 %																			
GROUND RUNUP T NO. 0282	DELTA N = 0.0 DB																			
IDENTIFICATION:																				
OMEGA 6.2																				
TEST 74-004-010																				
RUN 03																				
AIRCRAFT CODE 061																				
OPERATION CODE 01006																				
PROFILE VERSION A																				
17 DEC 75																				
PAGE E3																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	116.5	117.4	119.0	117.8	115.5	117.6	116.5	119.7	121.0	120.5	125.1	125.5	129.3	139.1	139.2	136.8	125.9	115.9	105.8	
250	114.4	115.2	116.9	115.6	114.3	115.6	116.2	117.4	118.8	118.8	122.8	123.2	127.2	136.8	137.0	134.6	123.8	113.8	103.7	
315	112.2	113.1	114.7	113.3	112.1	113.3	113.9	115.0	116.5	116.3	120.5	120.9	125.0	134.5	134.7	132.4	121.7	111.7	101.6	
400	110.0	110.8	112.4	111.0	109.8	110.9	111.6	112.7	114.1	113.9	118.1	118.5	122.8	132.0	132.5	130.2	119.6	109.6	99.4	
500	107.7	108.5	110.1	108.7	107.3	108.5	109.1	110.2	111.8	111.4	115.7	116.0	120.6	129.5	130.1	127.9	117.4	107.3	97.1	
630	105.4	106.2	107.8	106.2	104.8	105.9	106.8	107.7	109.1	108.9	113.1	113.5	118.2	126.8	127.5	125.5	115.1	105.0	94.7	
800	102.9	103.7	105.3	103.6	102.2	103.3	104.0	105.0	106.4	106.0	110.4	110.8	115.8	124.3	124.8	123.1	112.7	102.6	92.3	
1000	100.4	101.1	102.8	100.8	99.4	100.5	101.1	102.1	103.6	103.1	107.5	108.1	113.3	121.6	122.0	120.5	110.2	100.1	89.7	
1250	97.7	98.4	100.0	98.0	96.5	97.5	98.1	99.0	100.6	100.0	104.5	105.3	110.6	118.5	119.2	117.8	107.3	97.1	86.7	
1600	94.9	95.6	97.2	95.1	93.3	94.3	94.9	95.7	97.4	96.7	101.1	102.3	107.7	115.2	116.2	114.9	104.5	94.3	83.8	
2000	92.0	92.6	94.2	92.0	89.9	90.9	91.4	92.2	94.0	93.1	97.5	99.2	104.8	111.7	113.1	111.9	101.5	91.2	80.7	
2500	88.7	89.3	90.9	88.6	86.3	87.1	87.6	88.3	90.4	89.2	93.6	95.3	101.0	107.9	109.3	108.1	97.6	87.3	76.8	
3150	85.1	85.8	87.4	85.0	82.6	83.2	83.4	84.1	86.3	85.0	89.3	91.0	96.9	103.8	105.0	103.8	93.3	82.9	72.5	
4000	81.0	81.7	83.3	80.9	78.3	79.1	78.7	79.5	81.8	80.4	84.6	86.2	92.4	99.3	100.6	99.0	88.7	78.3	67.8	
5000	76.4	77.1	78.8	76.2	73.6	74.6	74.0	74.6	76.9	75.4	79.7	81.3	87.6	94.4	95.9	94.1	83.9	73.5	62.9	
6300	71.6	72.2	73.9	71.3	68.6	69.6	69.0	69.4	71.5	70.0	74.6	76.3	82.6	89.4	90.9	89.2	79.0	68.5	57.7	
8000	67.6	68.2	69.9	67.1	64.4	65.1	64.3	64.7	66.8	65.5	70.4	72.1	78.5	85.4	86.9	85.5	75.4	64.8	53.7	
10000	63.2	63.7	65.4	62.6	59.7	60.3	59.0	59.5	62.2	60.9	66.0	68.0	74.7	81.2	82.6	81.6	71.5	60.8	49.4	
12500	58.6	58.8	60.5	57.5	54.6	54.8	53.3	54.0	57.3	56.0	61.2	63.5	70.4	76.8	78.3	77.3	67.3	56.3	44.2	
16000	53.6	53.4	55.0	51.9	48.9	48.4	46.7	48.0	51.7	50.5	55.9	58.4	65.6	72.0	73.5	72.8	62.7	51.3	38.4	
20000	47.8	47.5	48.8	45.3	41.9	40.9	39.6	41.2	45.4	44.1	50.1	52.8	60.3	66.7	68.3	67.7	57.6	45.6	31.8	
25000	40.7	40.5	41.5	37.5	33.7	32.5	31.2	33.3	37.8	36.5	43.3	46.5	54.3	60.3	62.6	62.5	51.8	38.9	21.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-15A AIRCRAFT  
ENG F100-PM-100(1)  
GROUND RUNUP I NO. 0282

OPERATION: INTERMEDIATE POWER (MIL)  
90% RPM  
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
BAR PRESS = 29.92 IN HG  
REL HUMID = 70 %  
DELTA N = 0.0 DR

IDENTIFICATION: OMEGA 8.2  
TEST 74-004-010  
RUN 03  
AIRCRAFT CODE 061  
OPERATION CODE 01006  
PROFILE VERSION A  
17 DEC 75  
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>180	
200	105.5	106.2	107.9	105.9	103.7	104.9	105.2	106.3	107.8	106.5	113.9	111.6	115.2	124.9	125.5	122.9	112.6	102.6	92.6
250	103.5	104.1	105.8	103.8	101.6	102.7	103.0	103.9	105.6	104.3	108.7	109.5	114.1	122.7	123.4	120.8	110.5	103.5	90.5
315	101.4	102.0	103.7	101.7	99.4	100.6	100.8	101.7	103.4	102.1	106.5	107.3	112.0	120.4	121.2	118.7	108.5	98.5	88.5
400	99.3	99.8	101.5	99.5	97.2	98.4	98.6	99.4	101.2	99.8	104.2	105.1	109.9	118.2	119.0	116.6	106.4	96.4	86.4
500	97.1	97.7	99.4	97.3	95.0	96.1	96.3	97.1	98.9	97.5	101.9	102.8	107.7	115.9	116.7	114.4	104.2	94.2	84.2
630	94.9	95.5	97.2	95.1	92.7	93.8	93.9	94.7	96.5	95.1	99.5	100.9	105.5	113.5	114.4	112.2	102.0	92.0	82.0
800	92.7	93.2	94.9	92.8	90.4	91.4	91.5	92.2	94.1	92.6	97.0	98.1	103.3	111.1	112.0	109.8	99.7	89.7	79.7
1000	90.5	90.9	92.6	90.4	88.0	88.9	89.0	89.7	91.6	90.0	94.5	95.7	101.0	108.6	109.5	107.5	97.3	87.3	77.3
1250	88.1	88.5	90.2	88.0	85.4	86.3	86.3	87.1	89.0	87.3	91.9	93.1	98.5	105.9	106.9	105.0	94.7	84.7	74.7
1600	85.7	86.1	87.7	85.4	82.8	83.7	83.6	84.3	86.3	84.5	89.1	90.4	96.0	103.1	104.3	102.4	92.1	82.1	72.1
2000	83.2	83.5	85.2	82.8	80.1	80.9	80.7	81.4	83.5	81.6	86.3	87.7	93.4	100.3	101.5	99.7	89.3	79.3	69.3
2500	80.5	80.7	82.4	79.9	77.2	78.0	77.6	78.3	80.5	78.4	83.1	84.5	90.4	97.1	98.5	96.6	86.1	76.1	66.1
3150	77.4	77.7	79.4	76.9	74.0	74.8	74.3	74.9	77.2	75.0	79.7	81.1	87.0	93.7	95.1	93.1	82.6	72.6	62.6
4000	74.0	74.1	75.9	73.4	70.4	71.3	70.8	71.3	73.5	71.2	75.9	77.3	83.3	89.9	91.4	89.4	78.6	68.6	58.6
5000	70.0	70.1	71.9	69.4	66.4	67.4	66.8	67.3	69.5	67.1	71.7	73.1	79.0	85.7	87.3	85.1	74.3	64.3	54.3
6300	65.7	65.8	67.6	65.1	62.1	63.1	62.4	62.9	65.1	62.6	67.2	68.6	74.6	81.2	82.9	80.7	69.8	59.8	49.8
8000	61.9	62.0	63.8	61.2	58.1	59.0	58.1	58.5	60.8	58.4	63.1	64.7	71.0	77.3	79.0	77.0	66.2	56.2	46.2
10000	57.9	57.8	59.6	56.9	53.7	54.4	53.3	53.8	56.2	53.9	58.9	60.6	67.1	73.1	74.8	73.0	62.4	52.4	42.4
12500	53.3	53.3	55.0	52.1	48.9	49.4	48.0	48.6	51.2	49.1	54.2	56.1	62.8	68.5	70.3	68.7	58.4	48.4	38.4
16000	48.3	48.2	49.8	46.8	43.7	43.8	42.3	43.0	45.9	44.0	49.3	51.3	58.1	63.6	65.4	64.0	53.9	43.9	33.9
20000	42.7	42.6	44.1	41.0	37.9	37.6	36.1	37.0	40.1	38.5	43.8	46.0	53.0	58.4	60.0	59.0	49.1	39.1	29.1
25000	36.4	36.3	37.6	34.5	31.6	30.8	29.5	30.6	33.8	32.7	38.0	40.3	47.3	52.8	54.3	53.5	44.0	34.0	24.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DRA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.5	106.2	107.9	105.9	103.7	104.3	105.2	106.4	107.3	106.5	108.9	111.6	116.7	124.9	125.5	122.9	112.6	102.6	92.6
250	103.5	104.1	105.4	103.8	101.6	102.7	103.0	103.9	103.6	104.3	108.7	109.5	114.7	122.7	123.4	120.8	110.5	100.5	90.5
315	101.4	102.0	103.7	101.7	99.4	100.6	100.8	101.7	103.4	102.1	106.5	107.3	112.6	120.4	121.2	118.7	108.5	98.5	88.5
400	99.3	99.8	101.5	99.5	97.2	98.4	98.6	99.4	101.2	99.8	104.2	105.1	110.5	118.2	119.0	116.6	106.4	96.4	86.4
500	97.1	97.7	99.4	97.3	95.0	96.1	96.3	97.1	98.9	97.5	101.9	102.4	108.3	115.9	116.7	114.4	104.2	94.2	84.2
630	94.9	95.5	97.2	95.1	92.7	93.9	93.9	94.7	96.5	95.1	99.5	100.5	106.1	113.5	114.4	112.2	102.0	92.0	82.0
800	92.7	93.2	94.9	92.8	90.4	91.4	91.5	92.2	94.1	92.6	97.0	98.1	103.9	111.1	112.0	109.8	99.7	89.7	79.7
1000	90.5	90.9	92.6	90.4	88.0	88.3	89.0	89.7	91.6	90.0	94.5	95.7	101.5	108.6	109.5	107.5	97.3	87.3	77.3
1250	88.1	88.5	90.2	88.0	85.4	86.3	86.3	87.1	89.0	87.3	91.5	93.1	99.1	105.9	106.9	105.0	94.7	84.7	74.7
1600	85.7	86.1	87.7	85.4	82.8	83.7	83.6	84.3	86.3	84.5	89.1	90.4	96.6	103.1	104.3	102.4	92.1	82.1	72.1
2000	83.2	83.5	85.2	82.8	80.1	80.9	80.7	81.4	83.5	81.6	86.3	87.7	94.0	100.3	101.5	99.7	89.3	79.3	69.3
2500	80.5	80.7	82.4	79.9	77.2	78.0	77.6	78.3	80.5	78.4	83.1	84.5	91.0	97.1	98.5	96.6	86.1	76.1	66.1
3150	77.4	77.7	79.4	76.9	74.0	74.8	74.3	74.9	77.2	75.0	79.7	81.1	87.6	93.7	95.1	93.1	82.6	72.6	62.6
4000	74.0	74.1	75.9	73.4	70.4	71.3	70.8	71.3	73.5	71.2	75.9	77.3	83.7	89.9	91.4	89.4	78.6	68.6	58.6
5000	70.0	70.1	71.9	69.4	66.4	67.4	66.8	67.3	69.5	67.1	71.7	73.1	79.4	85.7	87.3	85.1	74.3	64.3	54.3
6300	65.7	65.8	67.6	65.1	62.1	63.1	62.4	62.9	65.1	62.6	67.2	68.6	74.9	81.2	82.9	80.7	69.8	59.8	49.8
8000	61.9	62.0	63.8	61.2	58.1	59.0	58.1	58.5	60.8	58.4	63.1	64.7	71.1	77.3	79.0	77.0	66.2	56.2	46.2
10000	57.9	57.8	59.6	56.9	53.7	54.4	53.3	53.8	56.2	53.9	58.9	60.6	67.1	73.1	74.8	73.0	62.4	52.4	42.4
12500	53.3	53.3	55.0	52.1	48.9	49.4	48.0	48.6	51.2	49.1	54.2	56.1	62.8	68.5	70.3	68.7	58.4	48.4	38.4
16000	48.3	48.2	49.8	46.8	43.7	43.8	42.3	43.0	45.9	44.0	49.3	51.3	58.1	63.8	65.4	64.0	53.9	43.9	33.9
20000	42.7	42.6	44.1	41.0	37.9	37.6	36.1	37.0	40.1	38.5	43.8	46.0	53.0	58.4	60.0	59.0	49.1	39.1	29.1
25000	36.4	36.3	37.6	34.5	31.6	30.8	29.5	30.6	33.8	32.7	38.0	40.3	47.3	52.8	54.3	53.5	44.0	34.0	24.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( DISTANCE = 250 FEET  
 ( NOISE SOURCE/SUBJECT: ( OPERATIONS: ) METEOROLOGY: ) AIRCRAFT CODE 061  
 ( F-15A AIRCRAFT ( INTERMEDIATE POWER (MIL) ) TLMP ) OPERATION CODE 01006  
 ( ENG F100-PW-100(1) ( 90% RPM ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A  
 ( GROUND RUNUP T NO. 9282 ( SINGLE ENGINE ) REL HUMID = 70 % ) 17 DEC 75  
 ( ( DELTA N = 0.0 09 ) PAGE J3  
 (

	40	50	60	70	80	90	100	110	120	130	140
A											
N											
G											
L											
E											
T											
H											
D											
E											
S											
R											
E											
E											
S											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		METEOROLOGY:																	IDENTIFICATION:			
1/3 OCTAVE BAND		TEMP = 59 F																	OMEGA 8.2			
DISTANCE = 250 FEET		BAR PRESS = 29.92 IN HG																	TEST 74-004-010			
		REL HUMID = 70 %																	RUN 04			
		DELTAN = 0.0 DR																	AIRCRAFT CODE 061			
																			OPERATION CODE 01001			
																			PROFILE VERSION A			
																			17 DEC 75			
																			PAGE C4			
NOISE SOURCE/SUBJECT:																						
F-15A AIRCRAFT																						
ENG F100-PW-10011																						
GROUND RUNUP T NO. 0282																						
BAND CENTER																						
FREQ (HZ)		ANGLE (DEGREES)																				
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
50	94	93	93	93	95	96	95	96	98	98	99	104	110	116	118	109	111	101	91			
63	96	95	96	96	96	97	97	96	100	101	101	107	114	120	120	100	109	99	89			
80	97	98	98	98	99	98	98	97	100	102	104	111	119	123	120	112	112	102	92			
100	99	100	99	100	100	100	100	101	102	104	105	107	119	125	121	113	112	102	92			
125	100	101	102	100	101	101	102	103	104	105	107	112	120	124	122	113	112	102	92			
160	101	102	101	101	101	102	103	104	106	107	112	118	124	123	122	114	113	103	93			
200	101	103	102	102	103	102	103	104	107	108	112	118	126	125	120	113	113	103	93			
250	102	103	103	103	103	102	103	104	107	107	111	118	125	124	119	110	110	100	90			
315	99	100	103	103	102	102	102	105	107	107	112	120	124	122	117	109	110	100	90			
400	99	102	103	102	101	99	100	103	106	106	112	117	123	120	115	108	109	99	89			
500	98	100	101	100	100	98	99	101	107	106	112	115	121	118	113	106	107	97	87			
630	99	101	103	101	99	99	100	102	106	106	112	113	119	116	112	106	105	95	85			
800	97	100	101	100	97	99	100	102	106	106	112	112	117	115	110	104	104	94	84			
1000	95	98	99	98	98	95	98	100	106	105	111	111	116	114	109	102	103	93	83			
1250	93	97	97	97	97	95	97	99	101	105	111	110	114	114	109	102	101	91	81			
1600	93	98	98	98	95	98	98	100	102	106	107	112	111	115	109	102	101	91	81			
2000	93	97	97	98	97	98	97	99	102	103	105	111	114	113	108	100	99	89	79			
2500	89	93	94	95	95	95	97	100	104	106	111	110	113	108	99	97	87	77				
3150	87	91	92	94	94	94	97	99	103	105	110	109	112	106	98	94	84	74				
4000	88	92	93	95	95	95	98	100	102	104	107	112	111	115	109	99	95	85	75			
5000	85	88	89	91	91	94	97	98	101	104	109	109	114	113	106	96	91	81	71			
6300	82	85	87	88	88	88	92	94	97	99	103	108	114	113	105	94	88	78	68			
8000	80	83	85	86	87	87	90	93	96	99	104	111	116	115	108	96	89	79	69			
10000	76	79	81	82	83	87	91	94	97	102	109	108	116	116	105	94	85	75	65			
OVERALL	111	112	113	113	112	113	114	116	118	119	124	128	134	134	130	122	122	112	102			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)											METEOROLOGY:				IDENTIFICATION:			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	120.3	123.1	123.8	124.4	123.8	123.8	125.7	127.7	129.5	132.2	134.2	139.4	140.0	144.9	144.2	139.2	130.5	129.4	119.4
315	118.2	120.9	121.6	122.2	121.6	123.5	125.4	127.2	129.2	129.9	131.9	137.1	137.7	142.6	141.9	136.9	128.3	127.3	117.3
400	116.0	118.7	119.4	120.0	119.3	121.1	123.0	124.9	127.5	127.5	129.5	134.7	135.4	140.2	139.6	134.6	126.0	125.2	115.1
500	113.7	116.4	117.1	117.7	116.9	118.7	120.6	122.5	125.1	127.1	132.2	133.0	137.8	137.1	132.2	123.7	122.9	112.9	102.9
630	111.3	114.1	114.8	115.3	114.5	116.2	118.0	119.9	122.6	124.5	129.6	130.4	135.2	134.6	129.7	121.3	120.6	110.6	100.4
600	108.9	111.6	112.3	112.9	112.0	113.6	115.4	117.2	120.0	121.7	126.9	127.7	132.6	131.9	127.1	118.8	116.3	108.2	98.0
1000	103.7	106.3	107.1	107.5	106.6	108.1	109.9	111.6	114.5	115.8	120.8	122.3	127.4	126.3	121.8	113.6	113.3	103.2	92.9
1250	100.9	103.5	104.4	104.6	103.6	105.1	106.9	108.6	111.5	112.7	117.7	119.2	124.5	123.3	118.8	110.7	110.5	100.4	90.0
1600	98.0	100.6	101.4	101.4	100.4	101.9	103.6	105.3	108.2	109.4	114.3	115.9	121.5	120.3	115.7	107.8	107.6	97.4	87.0
2000	94.9	97.5	98.3	98.0	97.2	98.4	100.1	101.8	104.8	105.8	110.7	112.7	118.4	117.1	112.6	104.6	104.6	94.3	83.9
2500	91.3	93.7	94.9	94.2	93.3	94.5	96.3	97.9	101.0	101.9	106.9	108.8	114.5	113.2	108.7	100.7	109.8	90.4	80.0
3150	87.5	89.8	91.2	90.3	89.2	90.2	92.0	93.6	97.0	97.7	102.8	104.5	110.2	108.8	104.4	96.5	96.5	86.1	75.7
4000	83.2	85.5	87.0	86.0	84.7	85.5	87.2	88.9	92.4	93.1	98.3	99.9	105.6	104.1	99.6	92.0	92.0	81.6	71.2
5000	78.5	80.8	82.3	81.2	79.8	80.5	82.0	83.8	87.5	88.1	93.3	95.0	100.8	99.2	94.7	87.1	87.2	76.8	66.3
6300	73.6	75.9	77.3	76.2	74.8	75.4	76.6	78.6	82.2	82.8	88.2	90.0	95.9	94.1	89.5	82.1	82.2	71.8	61.1
8000	69.5	71.8	73.3	72.0	70.8	71.1	72.3	74.3	78.0	78.3	84.0	86.0	92.1	90.3	85.7	78.2	78.5	68.0	57.0
10000	65.2	67.4	68.9	67.6	66.5	66.6	67.7	69.7	73.6	73.7	79.4	81.8	88.0	86.2	81.7	74.2	74.5	63.9	52.7
12500	60.4	62.6	64.1	62.7	61.9	61.6	62.7	64.7	68.9	68.9	74.6	77.4	83.7	81.9	77.4	69.8	70.2	59.3	47.7
16000	55.1	57.3	58.7	57.4	56.7	56.1	57.0	59.3	63.8	63.7	69.6	72.6	79.1	77.3	72.9	65.1	65.6	54.4	41.9
20000	49.4	51.6	52.7	51.7	51.1	50.2	51.1	53.5	58.1	58.0	64.0	67.3	74.0	72.3	67.9	60.0	60.5	49.7	35.0
25000	42.5	44.8	45.7	44.8	44.3	43.0	44.0	47.0	51.7	51.7	57.8	61.4	68.3	66.9	62.6	54.2	54.6	41.9	26.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-15A AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG F100-PW-100(1)	REL HUMID = 70 %																			
GROUND RUNUP T NO. 0282	DELTA N = 0.0 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-010																				
RUN 04																				
AIRCRAFT CODE 061																				
OPERATION CODE 01001																				
PROFILE VERSION A																				
17 DEC 75																				
PAGE E4																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	120.3	123.1	123.8	124.4	123.8	125.7	127.7	129.5	132.2	134.2	139.4	143.0	144.9	144.2	139.2	130.5	129.4	119.4	109.4	
250	118.2	120.9	121.6	122.2	121.6	123.5	125.4	127.2	129.9	131.9	137.1	137.7	142.6	141.9	136.9	126.3	127.3	117.3	107.3	
315	116.0	118.7	119.4	120.0	119.3	121.1	123.0	124.9	127.5	129.5	134.7	135.4	140.2	139.6	134.6	126.0	125.2	115.1	105.1	
400	113.7	116.4	117.1	117.7	116.9	118.7	120.6	122.5	125.1	127.1	132.2	133.0	137.8	137.1	132.2	123.7	122.9	112.9	102.9	
500	111.3	114.0	114.8	115.3	114.5	116.2	118.0	119.9	122.6	124.5	129.6	130.4	135.2	134.6	129.7	121.3	120.6	110.6	100.4	
630	108.9	111.6	112.3	112.9	112.0	113.6	115.4	117.2	120.0	121.7	126.9	127.7	132.6	131.9	127.1	118.8	118.3	108.2	98.0	
800	106.3	109.0	109.8	110.3	109.4	110.9	112.7	114.4	117.4	118.8	123.9	125.0	130.1	129.1	124.5	116.2	115.8	105.8	95.5	
1000	103.7	106.3	107.1	107.5	106.6	108.1	109.9	111.6	114.5	115.8	120.8	122.0	127.4	126.3	121.8	113.6	113.3	103.2	92.9	
1250	100.9	103.5	104.4	104.6	103.6	105.1	106.9	108.6	111.5	112.7	117.7	119.2	124.5	123.3	118.8	110.7	110.5	100.4	90.0	
1600	98.0	100.6	101.4	101.4	100.4	101.9	103.6	105.3	108.2	109.4	114.3	115.9	121.5	120.3	115.7	107.8	107.6	97.4	87.0	
2000	94.9	97.5	98.3	98.0	97.2	98.4	100.1	101.8	104.8	105.8	110.7	112.7	118.4	117.1	112.6	104.6	104.6	94.3	83.9	
2500	91.3	93.7	94.9	94.2	93.3	94.5	96.3	97.9	101.0	101.9	106.9	109.8	114.5	113.2	108.7	100.7	100.8	90.4	80.0	
3150	87.5	89.8	91.2	90.3	89.2	90.2	92.0	93.6	97.0	97.7	102.8	104.5	110.2	108.8	104.4	96.5	96.5	86.1	75.7	
4000	83.2	85.5	87.0	86.0	84.7	85.5	87.2	88.9	92.4	93.1	98.3	99.6	105.6	104.1	99.6	92.0	92.0	81.6	71.2	
5000	78.5	80.8	82.3	81.2	79.8	80.5	82.0	83.8	87.5	88.1	93.3	95.0	100.8	99.2	94.7	87.1	87.2	76.8	66.3	
6300	73.6	75.9	77.3	76.2	74.8	75.4	76.6	78.6	82.2	82.8	88.2	90.0	95.9	94.1	89.5	82.1	82.2	71.8	61.1	
8000	69.5	71.8	73.3	72.0	70.8	71.1	72.3	74.3	78.3	78.3	84.0	86.0	92.1	90.3	85.7	78.2	78.5	68.0	57.0	
10000	65.2	67.4	68.9	67.6	66.5	66.6	67.7	69.7	73.6	73.7	79.4	81.2	88.0	86.2	81.7	74.2	74.5	63.9	52.7	
12500	60.4	62.6	64.1	62.7	61.9	61.6	62.7	64.7	68.9	68.9	74.6	77.4	83.7	81.9	77.4	69.8	70.2	59.3	47.7	
16000	55.1	57.3	58.7	57.4	56.7	56.1	57.0	59.3	63.8	63.8	69.6	72.6	79.1	77.3	72.9	65.1	65.6	54.4	41.9	
20000	49.4	51.6	52.7	51.7	51.1	50.2	51.1	53.5	58.0	58.0	64.0	67.3	74.0	72.3	67.9	60.0	60.5	48.7	35.0	
25000	42.5	44.8	45.7	44.8	44.3	43.3	44.0	47.0	51.7	51.7	57.8	61.4	68.3	66.9	62.6	54.2	54.6	41.9	26.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OASPL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.6	110.3	111.4	111.0	109.8	111.4	113.3	115.0	118.3	119.6	125.1	129.6	130.7	129.3	124.1	116.2	115.8	105.8	95.8
250	105.5	108.2	109.3	108.9	107.6	109.2	111.1	112.8	116.1	117.3	122.8	123.4	128.5	127.0	121.9	114.1	113.7	103.7	93.7
315	103.4	106.1	107.1	106.7	105.5	107.0	108.8	110.6	113.9	115.0	120.5	121.2	126.2	124.7	119.7	112.0	111.6	101.6	91.6
400	101.2	103.9	105.0	104.5	103.3	104.7	106.6	108.3	111.7	112.7	118.1	118.9	124.0	122.4	117.5	109.8	109.5	99.5	89.5
500	99.0	101.7	102.8	102.3	101.0	102.4	104.2	105.9	109.4	110.3	115.7	116.6	121.6	120.1	115.2	107.5	107.3	97.3	87.3
630	96.8	99.4	100.6	100.0	98.7	100.1	101.8	103.5	107.0	107.8	113.2	114.2	119.3	117.7	112.8	105.2	105.0	95.0	85.0
800	94.5	97.1	98.3	97.7	96.3	97.6	99.3	101.1	104.6	105.2	110.7	111.7	116.9	115.2	110.4	102.9	102.7	92.7	82.7
1000	92.1	94.7	95.9	95.2	93.8	95.1	96.7	98.5	102.1	102.6	108.1	109.2	114.4	112.6	107.8	100.4	100.3	90.3	80.3
1250	89.6	92.3	93.4	92.7	91.2	92.4	94.0	95.8	99.4	99.9	105.4	106.6	111.8	109.9	105.2	97.8	97.8	87.8	77.8
1600	87.1	89.7	90.9	90.0	88.6	89.6	91.2	93.0	96.7	97.1	102.6	103.9	109.1	107.2	102.4	95.1	95.2	85.2	75.2
2000	84.4	87.0	88.2	87.3	85.8	86.8	88.3	90.1	93.9	94.2	99.8	101.0	106.4	104.7	99.5	92.3	92.5	82.5	72.5
2500	81.5	84.0	85.3	84.3	82.7	83.7	85.1	87.0	90.9	91.0	96.7	97.9	103.3	101.1	96.3	89.3	89.4	79.4	69.4
3150	78.3	80.8	82.1	81.0	79.3	80.3	81.8	83.6	87.6	87.7	93.3	94.4	99.8	97.6	92.8	85.9	86.0	76.0	66.0
4000	74.7	77.2	78.5	77.3	75.5	76.6	78.0	79.9	83.9	84.0	89.7	90.8	96.0	93.8	88.9	82.1	82.3	72.3	62.3
5000	70.6	73.1	74.5	73.2	71.3	72.5	73.9	75.7	79.8	79.8	85.6	86.4	91.8	89.5	84.7	78.0	78.1	68.1	58.1
6300	66.3	68.7	70.1	68.8	66.9	68.1	69.5	71.3	75.4	75.4	81.1	81.9	87.4	85.1	80.2	73.6	73.7	63.7	53.7
8000	62.4	64.8	66.2	64.8	63.0	64.0	65.2	67.1	71.3	71.2	77.0	78.3	83.6	81.1	76.3	69.7	69.9	59.9	49.9
10000	58.2	60.5	62.0	60.5	58.8	59.5	60.7	62.6	66.8	66.6	72.5	73.8	79.6	77.0	72.2	65.6	65.8	55.8	45.8
12500	53.7	55.9	57.3	55.9	54.3	54.7	55.7	57.7	61.9	61.8	67.7	69.3	75.2	72.5	67.9	61.1	61.4	51.4	41.4
16000	48.6	50.8	52.2	50.8	49.5	49.4	50.4	52.5	56.6	56.5	62.5	64.4	70.5	67.8	63.1	56.3	56.7	46.7	36.7
20000	43.2	45.2	46.6	45.3	44.2	43.8	44.7	46.8	50.9	50.8	56.8	59.2	65.3	62.7	58.2	51.2	51.6	41.6	31.6
25000	37.2	39.2	40.4	39.3	38.5	37.8	38.5	40.7	44.7	44.6	50.5	53.5	59.8	57.4	53.1	45.8	46.2	36.2	26.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	107.6	110.3	111.4	111.0	109.8	111.4	113.3	115.0	118.3	119.6	125.1	125.6	130.7	129.3	124.1	116.2	115.8	105.8	95.8	
250	105.5	108.2	109.3	108.9	107.6	109.2	111.1	112.8	116.1	117.3	122.8	123.4	128.5	127.0	121.9	114.1	113.7	103.7	93.7	
315	103.4	106.1	107.1	106.7	105.5	107.0	108.8	110.6	113.9	115.0	120.5	121.2	126.2	124.7	119.7	112.0	111.6	101.6	91.6	
400	101.2	103.9	105.0	104.5	103.3	104.7	106.6	108.3	111.7	112.7	118.1	118.9	124.0	122.4	117.5	109.8	109.5	99.5	89.5	
500	99.0	101.7	102.8	102.3	101.0	102.4	104.2	105.9	109.4	110.3	115.7	116.6	121.6	120.1	115.2	107.5	107.3	97.3	87.3	
630	96.8	99.4	100.6	100.0	98.7	100.1	101.8	103.5	107.0	107.8	113.2	114.2	119.3	117.7	112.8	105.2	105.0	95.0	85.0	
800	94.5	97.1	98.3	97.7	96.3	97.6	99.3	101.1	104.6	105.2	110.7	111.7	116.9	115.2	110.4	102.9	102.7	92.7	82.7	
1000	92.1	94.7	95.9	95.2	93.8	95.1	96.7	98.5	102.1	102.6	108.1	109.2	114.4	112.6	107.8	100.4	100.3	90.3	80.3	
1250	89.6	92.3	93.4	92.7	91.2	92.4	94.0	95.8	99.4	99.9	105.4	106.6	111.8	109.9	105.2	97.8	97.8	87.8	77.8	
1600	87.1	89.7	90.9	90.0	88.6	89.6	91.2	93.0	96.7	97.1	102.6	103.9	109.1	107.2	102.4	95.1	95.2	85.2	75.2	
2000	84.4	87.0	88.2	87.3	85.8	86.8	88.3	90.1	93.9	94.2	99.8	101.0	106.4	104.3	99.5	92.3	92.5	82.5	72.5	
2500	81.5	84.0	85.3	84.3	82.7	83.7	85.1	87.0	90.9	91.0	96.7	97.9	103.3	101.1	96.3	89.3	89.4	79.4	69.4	
3150	78.3	80.8	82.1	81.0	79.3	80.3	81.8	83.6	87.6	87.7	93.3	94.4	99.8	97.6	92.8	85.9	86.0	76.0	66.0	
4000	74.7	77.2	78.5	77.3	75.5	76.6	78.0	79.9	83.9	84.0	89.7	90.6	96.0	93.1	88.9	82.1	82.3	72.3	62.3	
5000	70.6	73.1	74.5	73.2	71.3	72.5	73.9	75.7	79.8	79.8	85.6	86.4	91.8	89.5	84.7	78.0	78.1	68.1	58.1	
6300	66.3	68.7	70.1	68.8	66.9	68.1	69.5	71.3	75.4	75.4	81.1	81.9	87.4	85.1	80.2	73.6	73.7	63.7	53.7	
8000	62.4	64.8	66.2	64.8	63.0	64.0	65.2	67.1	71.3	71.2	77.0	78.0	83.6	81.1	76.3	69.7	69.9	59.9	49.9	
10000	58.2	60.5	62.0	60.5	58.8	59.5	60.7	62.6	66.8	66.8	72.5	73.8	79.6	77.0	72.2	65.6	65.8	55.8	45.8	
12500	53.7	55.9	57.3	55.9	54.3	54.7	55.7	57.7	61.9	61.8	67.7	69.3	75.2	72.5	67.8	61.1	61.4	51.4	41.4	
16000	48.6	50.8	52.2	50.8	49.5	49.4	50.4	52.5	56.6	56.5	62.5	64.4	70.5	67.8	63.1	56.3	56.7	46.7	36.7	
20000	43.2	45.2	46.6	45.3	44.2	43.8	44.7	46.8	50.9	50.8	56.8	59.2	65.3	62.7	58.2	51.2	51.6	41.6	31.6	
25000	37.2	39.2	40.4	39.3	38.5	37.8	38.5	40.7	44.7	44.6	50.5	53.5	59.8	57.4	53.1	45.8	46.2	36.2	26.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



( TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( DISTANCE = 250 FEET  
 ( NOISE SOURCE/SUBJECT: ( OPERATIONS: ( METEOROLOGY: ( AIRCRAFT CODE 061  
 ( F-15A AIRCRAFT ( AFTERBURNER, ZONE 5 ( ) TEMP = 59 F ( ) OPERATION CODE 01001  
 ( ENG F100-PW-100(1) ( SINGLE ENGINE ( ) BAR PRESS = 29.92 IN HG ( ) PROFILE VERSION A  
 ( GROUND RUNUP T NO. 0282 ( ( ) REL HUMID = 70 % ( ) 17 DEC 75  
 ( ( ( ( ( DELTA N = 0.0 08 ( ) PAGE J4  
 ( ( ( ( ( P=PNLT T=ALT

	50	60	70	80	90	100	110	120	130	140	150
A											
N											
G											
L											
E											
I											
N											
D											
E											
G											
R											
E											
E											
S											
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-16 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS  
 AIRCRAFT CODE: 038  
 PROFILE VERSION: B  
 COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

PAGE

AFTERBURNER 90% RPM, 900C TIT . . . . . 415-423  
 TAKEOFF 90% RPM, 900C TIT . . . . . 424-432  
 APPROACH 82% RPM, 650C TIT . . . . . 433-441  
 INTERMEDIATE 85% RPM, 750C TIT . . . . . 442-450  
 TRAFFIC PATTERN 75% RPM 530C TIT . . . . . 451-459

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNL  
 NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT  
 AIR-TO-GROUND PROPAGATION  
 SOUND PRESSURE LEVEL SPECTRA  
 SINGLE EVENT MEASURES (AL, ALT, PNL, PMLT, SEL, SELT, EPNL)  
 GROUND-TO-GROUND PROPAGATION  
 SOUND PRESSURE LEVEL SPECTRA  
 SINGLE EVENT MEASURES (AL, ALT, PNL, PMLT, SEL, SELT, EPNL)

22 AUG 77

AEROSPACE MEDICAL RESEARCH LABORATORY  
 WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT  
 F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT F-16 AIRCRAFT

	40	50	60	70	80	90	100	110	MEAN	SD
F	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	90.8	1.8
R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	88.6	2.7
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	86.3	3.4
Q	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	98.6	3.3
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	105.4	2.1
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	108.2	2.1
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	104.8	1.1
J	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	101.8	2.1
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	108.8	.8
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	103.1	1.3
C	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	105.4	.7
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	104.5	2.6
800	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	102.1	1.4
1000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	100.8	.9
1250	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	100.2	1.0
1600	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	99.0	1.0
2000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	98.5	.6
2500	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.9	1.3
3150	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	96.9	1.4
4000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.4	1.6
5000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.3	2.2
6300	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	96.0	0.0
8000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	95.0	0.0
10000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	94.6	0.0

F-16 AFTERBURNER POWER 900 C TIT

AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 126.2 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 125.1 PNOB

NO. OF RECORDS = 7 IDENT: 6.6-038-101-220877 ALT = 113.1 DBA

AL = 112.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\* ) IDENTIFICATION:

AIR-TO-GROUND PROPAGATION ) OMEGA 6.6

AIRCRAFT: ) OPERATION: ) METEOROLOGY: ) A/G CODE: F  
 ( AFTERBURNER POWER ) TEMP = 59 F ) OPS CODE: )  
 ( 90% RPM 900 C IIT ) REL HUMID = 70% ) PROFILE V: )  
 ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) 22 AUG 77 )  
 ( ) ) PAGE H1 )

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
200	105	103	100	113	120	122	119	116	123	118	120	119	117	116	116	115	115	116	116	119	120	122	126	177
250	103	101	98	111	118	120	117	114	121	116	118	117	115	114	114	113	113	113	114	116	117	119	123	130
315	101	99	96	109	116	118	115	112	119	114	116	115	113	112	112	111	111	111	111	113	114	116	120	126
400	99	97	94	107	113	116	113	110	117	111	114	113	111	110	110	109	109	109	109	111	112	113	116	121
500	97	95	92	105	111	114	111	108	115	109	112	111	109	108	107	106	106	106	106	108	109	109	112	116
630	95	93	90	103	109	112	109	106	113	107	110	109	107	105	105	104	104	104	104	105	105	106	107	110
800	93	91	88	101	107	110	107	104	111	105	108	107	104	103	103	102	101	101	100	101	101	101	101	103
1000	91	89	86	99	105	108	105	102	109	103	105	105	102	101	100	99	99	98	97	97	97	96	95	94
1250	89	87	84	97	103	106	103	100	107	101	103	102	100	98	98	96	96	95	93	93	93	90	87	84
1600	87	85	82	94	101	104	101	98	105	99	101	100	97	96	95	93	92	91	89	88	87	83	78	71
2000	85	82	80	92	99	102	98	95	102	96	99	97	95	93	92	90	89	87	85	83	79	76	67	56
2500	83	80	78	90	97	100	96	93	100	94	96	95	92	90	89	87	85	83	79	76	73	65	54	38
3150	81	78	76	88	95	98	94	91	98	92	94	92	89	87	86	83	81	78	73	68	65	54	38	15
4000	79	76	74	86	93	95	92	89	95	89	91	89	86	84	82	79	76	72	66	59	54	40	18	
5000	77	74	72	84	91	93	89	86	93	86	88	86	83	80	78	74	70	65	57	48	41	22		
6300	74	72	70	82	88	91	87	84	90	83	85	83	79	76	73	68	64	57	47	34	25	1		
8000	72	70	67	79	86	88	84	81	87	80	82	79	75	71	67	62	56	47	35	17	6			
10000	70	68	65	77	83	86	82	78	84	77	78	75	70	65	61	54	46	36	20					
12500	68	65	63	75	81	83	79	75	81	73	74	70	64	59	53	45	35	21	1					
16000	66	63	60	72	78	80	76	72	77	69	69	65	58	51	44	33	22	4						
20000	63	61	58	69	75	77	72	68	73	64	63	58	50	42	33	20	5							
25000	61	58	55	67	72	74	69	64	69	59	57	51	41	31	20	4								

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-16	133.9	134.9	147.4	148.5	131.4	132.4	135.3	OMEGA	6.6
	130.8	131.9	144.5	145.6	129.3	130.3	133.4		
	127.6	128.7	141.4	142.5	127.1	128.2	131.3		
	124.3	125.4	138.1	139.1	124.8	125.9	128.9		
	121.0	122.1	134.6	135.6	122.5	123.6	126.4		
	117.9	118.9	131.6	132.7	120.4	121.4	124.5		
	114.9	115.9	128.4	129.5	118.4	119.4	122.3		
	112.0	113.1	125.1	126.2	116.5	117.6	120.0		
	109.3	110.4	122.1	123.2	114.8	115.8	118.0		
	106.6	107.7	119.1	120.2	113.1	114.1	116.0		
	103.9	104.9	116.1	117.2	111.4	112.4	114.0		
	101.1	102.2	113.0	114.1	109.6	110.7	111.9		
	98.3	99.4	109.9	111.0	107.8	108.9	109.8		
	95.4	96.3	106.8	107.7	105.9	106.8	107.5		
	92.4	93.0	103.6	104.2	103.9	104.5	105.1		
	89.3	89.7	100.3	100.7	101.8	102.2	102.6		
	86.0	86.2	96.9	97.1	99.5	99.7	99.9		
	82.5	82.5	93.3	93.3	97.0	97.0	97.2		
	78.8	78.8	89.6	89.6	94.4	94.4	94.4		
	75.0	75.0	85.5	85.5	91.5	91.5	91.3		
	70.9	70.9	81.3	81.3	88.4	88.4	88.2		
	66.5	66.5	77.0	77.0	85.0	85.0	84.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200 ( F-16 AFTERBURNER POWER ) A+-----\*P- )  
 250 ( . 90 % RPM 900 C TIT .A+ . . \* P )  
 315 ( . AIRSPEED = 350 KNOTS )  
 400 ( . TEMP = 59 F REL HUMID = 70 % .A+ . . \*P )  
 500 ( . DELTA N = 0.0 DB .A+ . . \*P )  
 630 ( . NO. OF RECORDS: 7 )  
 800 ( . IDENT: 6.6-038-101-220877-B )  
 1000 ( . . . . .A+ . . . . . )  
 1250 ( . . . . .A+ . . . . . )  
 1600 ( . . . . .A+ . . . . . )  
 2000 ( . . . . .A+ . . . . . )  
 2500 ( . . . . .A+ . . . . . )  
 3150 ( . . . . .A+ . . . . . )  
 4000 ( . . . . .A+ . . . . . )  
 5000 ( . . . . .A+ . . . . . )  
 6300 ( . . . . .A+ . . . . . )  
 8000 ( . . . . .X . . . . . )  
 10000 ( . . . . .X . . . . . )  
 12500 ( . . . . .X . . . . . )  
 16000 ( . . . . .X . . . . . )  
 20000 ( . . . . .X . . . . . )  
 25000 ( . . . . .X . . . . . )

NOISE LEVEL IN DB  
 70 80 90 100 110 120 130 140 150

NOISE LEVEL IN DB	70	80	90	100	110	120	130	140
200	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(

F-16 AFTERBURNER POWER  
 90% RPM 900 C TIT  
 AIRSPEED = 350 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 7  
 IDENT: 6.6-038-101-220877-B

AIR TO GROUND  
 E = EPNL  
 T = SELT  
 S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
OPERATION:		A/C CODE: 038																							
AFTERBURNER POWER		TEMP = 59 F																							
90 % RPM 900 C TIT		OPS CODE: 101																							
REL HUMID = 70 %		PROFILE VER: B																							
AIRSPEED = 350 KNOTS		22 AUG 77																							
DELTA N = 0.0 DB		PAGE L1																							
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	100	98	95	108	115	117	114	111	118	113	115	114	112	111	111	110	110	111	111	114	115	117	121	128	
250	98	96	93	106	113	115	112	109	116	111	113	112	110	109	109	108	108	108	108	109	111	112	114	118	125
315	96	94	91	104	111	113	110	107	114	109	111	110	108	107	107	106	106	106	106	108	109	111	115	121	
400	94	92	89	102	108	111	108	105	112	106	109	108	106	105	105	104	104	104	104	106	107	108	111	116	
500	92	90	87	100	106	109	105	103	110	104	107	106	104	103	102	101	101	101	101	103	104	104	107	111	
630	90	88	85	98	104	106	103	100	108	102	105	104	102	100	100	99	99	99	99	98	100	100	101	102	105
800	88	86	83	95	101	103	100	97	106	100	103	102	99	98	98	97	96	96	95	96	96	96	96	96	96
1000	86	84	81	92	98	100	97	95	104	98	100	100	97	96	95	94	94	93	92	92	92	91	90	89	
1250	84	82	78	89	95	97	94	91	101	96	98	97	95	93	93	91	91	90	88	88	88	88	85	82	79
1600	82	78	75	86	91	94	90	88	97	94	96	95	92	91	90	88	87	86	84	83	82	78	73	66	
2000	79	75	71	82	88	90	88	84	94	91	94	92	90	88	87	85	84	82	80	78	76	70	62	51	
2500	75	71	67	78	83	86	82	79	90	88	91	90	87	85	84	82	80	78	74	71	68	60	49	33	
3150	71	66	62	73	78	81	77	74	85	83	86	87	84	82	81	78	76	73	68	63	60	49	33	10	
4000	67	61	57	67	73	75	71	69	80	79	84	84	81	79	77	74	71	67	61	54	49	35	13		
5000	61	57	52	62	68	70	66	64	74	73	79	79	77	75	73	69	65	60	52	43	36	17			
5300	56	52	48	58	63	65	61	59	68	67	75	75	73	71	68	63	59	52	42	29	20				
8000	54	50	45	55	61	63	59	56	65	64	72	71	69	66	62	57	51	42	30	12	1				
10000	52	48	43	53	58	60	56	53	62	61	68	67	64	60	56	49	41	31	15						
12500	50	45	41	51	56	58	53	50	59	57	64	62	58	54	48	40	30	15							
16000	48	43	38	48	53	55	50	47	55	53	59	57	52	46	39	28	17								
20000	45	41	36	45	50	52	47	43	51	48	53	50	44	37	28	15									
25000	43	38	33	43	47	48	43	39	46	43	47	43	35	26	15										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:	
(FEET)	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)		
200	128.9	130.1	142.4	143.6	126.4	127.6	130.4	OMEGA 6.6	
250	125.8	127.0	139.5	140.7	124.3	125.5	128.5	A/C CODE: 038	
315	122.6	123.8	136.4	137.6	122.1	123.3	126.4	OPS CODE: 161	
400	119.3	120.5	133.1	134.3	119.8	121.0	124.1	PROFILE VER: B	
500	116.0	117.3	129.5	130.8	117.5	118.7	121.6	22 AUG 77	
630	112.8	114.1	126.5	127.7	115.3	116.5	119.5	PAGE M1	
800	109.8	111.0	123.3	124.5	113.3	114.5	117.3		
1000	106.9	108.1	119.8	121.0	111.4	112.6	114.8		
1250	104.0	105.2	-16.3	117.5	109.5	110.7	112.4		
1600	101.1	102.3	112.7	114.0	107.6	108.8	109.8		
2000	98.2	99.4	109.1	110.4	105.7	106.9	107.2		
2500	95.0	96.3	105.4	106.6	103.5	104.7	104.4		
3150	91.6	92.8	101.1	102.4	101.1	102.3	101.2		
4000	87.8	88.8	96.5	97.4	98.3	99.2	97.3		
5000	83.5	84.2	91.4	92.2	95.0	95.7	93.0		
6300	78.8	79.3	86.2	86.7	91.3	91.8	88.5		
8000	74.7	74.9	82.0	82.2	88.2	88.4	85.1		
10000	70.2	70.2	77.5	77.5	84.7	84.7	81.4		
12500	65.3	65.3	72.7	72.7	80.8	80.8	77.6		
16000	60.0	60.0	67.4	67.4	76.5	76.5	73.3		
20000	54.2	54.2	61.6	61.6	71.7	71.7	68.5		
25000	47.8	47.8	55.1	55.1	66.3	66.3	63.0		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(
	F-16	90 % RPM	AFTERBURNER POWER	900 C TIT					
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 350 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 7								
	IDENT: 6.6-038-101-220877-B								
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(
N 1250	(	(	(	(	(	(	(	(	(
D 1600	(	(	(	(	(	(	(	(	(
I 2000	(	(	(	(	(	(	(	(	(
S 2500	(	(	(	(	(	(	(	(	(
T 3150	(	(	(	(	(	(	(	(	(
A 4000	(	(	(	(	(	(	(	(	(
N 5000	(	(	(	(	(	(	(	(	(
C 6300	(	(	(	(	(	(	(	(	(
E 8000	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(
T 12500	(	(	(	(	(	(	(	(	(
	X								
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
	GROUND TO GROUND								
	P = PNLT								
	* = PNL								
	+ = ALT								
	A = AL								

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S-T-E-
-----S-T-E-
200 ( ( F-16 AFTERBURNER POWER
250 ( ( 90 % RPM 900 C TIT
315 ( ( AIRSPEED = 350 KNOTS
400 ( ( TEMP = 59 F REL HUMID = 70 %
500 ( ( DELTA N = 0.0 DB
630 ( ( NO. OF RECORDS: 7
800 ( ( IDENT: 6.6-038-101-220877-B
1000 ( (
1250 ( (
1600 ( (
2000 ( (
2500 ( (
S L A N T D I S T A N C E I N F E E T
630 ( ( . . . . . S T E
800 ( ( . . . . . S T E
1000 ( ( . . . . . S.T.E.
1250 ( ( . . . . . STE
1600 ( ( . . . . . STE
2000 ( ( . . . . . SX.
2500 ( ( . . . . . XT
3150 ( ( . . . . . XT
4000 ( ( . . . . . EST.
5000 ( ( . . . . . E.ST
6300 ( ( . . . . . E.ST
8000 ( ( . . . . . E X
10000 ( ( . . . . . E.X.
12500 ( ( . . . . . E.X
16000 ( ( . . . . . E X
20000 ( ( . . . . . E X
25000 ( ( . . . . . E X
E-X-----E-X
50 60 70 80 90 100 110 120 130
NOISE LEVEL IN DB

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	30	40	50	60	70	80	90	100	MEAN	SD
50	.	.	.	.	.	.	.	.	65.8	3.3
63	.	.	.	.	X	.	.	.	63.2	2.4
80	.	.	.	X	.	.	.	.	62.0	3.2
100	.	.	.	.	X	.	.	.	66.3	4.7
F 125	.	.	.	.	.	X	.	.	73.6	2.7
R 160	.	.	.	.	.	.	X	.	77.7	1.0
E 200	.	.	.	.	.	.	.	X	76.7	1.6
Q 250	.	.	.	.	.	.	.	X	74.9	2.2
U 315	.	.	.	.	.	.	.	.	80.0	3.1
E 400	.	.	.	.	.	.	.	.	81.4	1.1
N 500	.	.	.	.	.	.	.	.	94.2	2.2
G 630	.	.	.	.	.	.	.	.	98.0	1.4
Y 800	.	.	.	.	.	.	.	.	95.7	.9
I 1000	.	.	.	.	.	.	.	.	90.9	.8
N 1250	.	.	.	.	.	.	.	.	91.6	.9
N 1600	.	.	.	.	.	.	.	.	90.6	1.1
H 2000	.	.	.	.	.	.	.	.	88.9	.8
Z 2500	.	.	.	.	.	.	.	.	86.6	.8
4000	.	.	.	.	.	.	.	.	84.0	1.1
5000	.	.	.	.	.	.	.	.	82.3	1.5
6300	.	.	.	.	.	.	.	.	78.0	1.9
8000	.	.	.	.	.	.	.	.	76.1	2.3
10000	.	.	.	.	.	.	.	.	76.0	2.6
	.	.	.	.	.	.	.	.	74.0	0.0

F-16 TAKEOFF POWER 90 % RPM 900 C TIT

AIRSPEED = 350 KNOTS TEMP = 59 F PNL T = 113.2 PNOB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 111.4 PNOB  
 NO. OF RECORDS = 7 IDENT: 6.6-038-103-220877 AL = 103.7 OBA  
 AL = 101.8 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 038																							
( OPERATION: )		OPS CODE: 103																							
( TAKEOFF POWER )		PROFILE VER: R																							
( 90 % RPM 900 C FIT )		22 AUG 77																							
( )		PAGE H2																							
( AIRSPEED = 350 KNOTS )		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	77	76	80	88	92	91	89	94	94	96	109	113	111	107	108	107	106	105	104	105	102	104	111	118
250	78	75	74	78	86	90	89	87	92	92	94	107	111	109	104	106	105	104	103	102	102	99	101	107	114
315	76	73	72	76	84	88	87	85	90	90	92	105	109	107	102	103	103	102	100	99	100	97	98	104	110
400	74	71	70	74	82	86	85	83	88	88	90	103	107	105	100	101	101	99	98	97	97	94	95	100	105
500	72	69	68	72	80	84	83	81	86	86	88	101	105	103	98	99	98	97	95	94	94	90	91	95	99
630	70	67	66	70	78	82	81	79	84	85	86	99	102	100	96	97	96	94	93	91	90	87	87	90	92
800	68	65	64	68	76	80	79	77	82	82	84	96	100	98	93	94	93	92	90	88	87	83	82	83	84
1000	66	63	62	66	74	78	77	75	80	80	81	94	98	96	91	92	91	89	87	84	82	78	76	76	74
1250	64	61	60	64	71	76	75	73	78	77	79	91	96	93	88	89	88	86	83	80	78	73	69	67	62
1600	62	59	58	62	69	73	72	71	76	75	77	90	93	91	86	86	85	82	79	76	72	67	62	57	48
2000	60	57	56	60	67	71	70	68	73	73	75	87	91	88	83	83	81	79	75	70	66	60	52	44	30
2500	58	55	54	58	65	69	68	66	71	72	72	85	88	85	80	80	78	74	70	65	58	51	41	29	9
3150	56	53	52	56	63	67	66	64	69	70	72	85	88	85	82	76	73	70	65	58	49	41	28	10	
4000	53	51	50	54	61	65	64	61	66	67	67	79	82	79	73	72	69	64	58	49	39	29	11		
5000	51	49	47	52	59	62	61	59	63	64	64	76	79	75	69	67	63	58	50	40	26	14			
6300	49	46	45	49	56	60	59	56	61	61	61	73	75	71	64	62	57	50	41	28	10				
8000	47	44	43	47	54	57	56	53	58	58	58	69	71	66	59	56	49	41	30	13					
10000	45	42	41	45	51	55	53	50	54	54	54	65	66	61	52	48	41	31	16						
12500	43	40	38	42	49	52	50	47	51	50	50	60	61	55	45	40	30	18							
16000	40	37	36	39	46	49	47	43	47	45	45	55	55	47	36	29	17	2							
20000	38	35	33	37	43	46	43	39	42	40	49	48	48	39	26	17	1								
25000	35	32	30	34	39	42	39	35	37	34	42	39	28	13	1										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)	IDENTIFICATION:	
F-16	120.6	122.4	132.7	134.5	118.3	119.5	122.5	OMEGA	6.6
	117.8	119.6	129.6	131.4	115.4	117.7	120.8		
	115.0	116.8	126.3	128.2	114.6	115.9	118.6		
	112.2	114.1	122.9	124.7	112.9	114.2	116.1		
	109.5	111.4	120.1	121.9	111.2	112.5	114.3		
	107.0	108.8	117.2	119.0	109.6	110.9	112.4		
	104.4	106.2	114.3	116.2	108.1	109.3	110.6		
	101.8	103.7	111.4	113.2	106.5	107.8	108.6		
	99.2	101.0	108.4	110.2	104.9	106.1	106.6		
	96.5	98.3	105.2	107.1	103.1	104.4	104.5		
	93.7	95.5	102.0	103.8	101.3	102.6	102.2		
	90.7	92.5	98.7	100.5	99.4	100.6	99.9		
	87.6	89.4	95.2	97.0	97.2	98.5	97.4		
	84.2	85.7	91.6	93.0	94.9	95.9	94.5		
	80.6	81.7	87.7	88.8	92.3	93.0	91.4		
	76.7	77.5	83.5	84.3	89.4	89.9	88.0		
	72.4	72.8	79.0	79.4	86.1	86.4	84.2		
	67.7	67.7	74.1	74.1	82.4	82.4	80.1		
	62.4	62.4	68.6	68.6	78.1	78.1	75.6		
	56.4	56.4	62.5	62.5	73.1	73.1	70.4		
	49.7	49.7	56.0	56.0	67.4	67.4	65.0		
	42.2	42.2	48.4	48.4	60.9	60.9	58.3		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

NOISE LEVEL IN DB	60	70	80	90	100	110	120	130	140
200	(	(	(	(	(	(	(	(	(
	F-16	TAKEOFF POWER							
250	(	(	(	(	(	(	(	(	(
	90 % RPM	900 C TIT							
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 350 KNOTS								
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
500	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
630	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 7								
800	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-038-103-220877-B								
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1500	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

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200 (-----S-T-E-----)
( F-16 TAKEOFF POWER )
250 ( . 90 % RPM 900 C TIT )
( AIRSPEED = 350 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 7 )
( IDENT: 6.6-038-103-220877-B )
500 ( . . . . . )
( . . . . . )
630 ( . . . . . )
( . . . . . )
800 ( . . . . . )
( . . . . . )
1000 ( . . . . . )
( . . . . . )
1250 ( . . . . . )
( . . . . . )
1600 ( . . . . . )
( . . . . . )
2000 ( . . . . . )
( . . . . . )
2500 ( . . . . . )
( . . . . . )
3150 ( . . . . . )
( . . . . . )
4000 ( . . . . . )
( . . . . . )
5000 ( . . . . . )
( . . . . . )
6300 ( . . . . . )
( . . . . . )
8000 ( . . . . . )
( . . . . . )
10000 ( . . . . . )
( . . . . . )
12500 ( . . . . . )
( . . . . . )
16000 ( . . . . . )
( . . . . . )
20000 ( . . . . . )
( . . . . . )
25000 (-----E-X-----)

```

50 60 70 80 90 100 110 120 130  
NOISE LEVEL IN DB



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

IDENTIFICATION: OMEGA 6.6

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: F-16

OPERATION: TAKEOFF POWER 900 C TIT = 59 F  
 90% RPM REL HUMID = 70%  
 AIRSPEED = 350 KNOTS DELTA N = 0.0 DB

METEOROLOGY: A/G CODE: 038  
 OPS CODE: 103  
 PROFILE VER: B  
 22 AUG 77  
 PAGE L2

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	72	71	75	83	87	86	84	89	91	104	108	106	102	103	102	101	100	99	100	97	99	106	113
250	73	70	69	73	81	85	84	82	87	89	102	106	104	99	101	100	99	98	97	97	94	96	102	109
315	71	68	67	71	79	83	82	80	85	87	100	104	102	97	98	98	97	95	94	95	92	93	99	105
400	69	66	65	69	77	81	80	78	83	85	98	102	100	95	96	96	94	93	92	92	89	90	95	100
500	67	64	63	67	75	78	77	76	81	83	96	100	98	93	94	93	92	90	89	89	85	86	90	94
630	65	62	61	65	72	76	75	73	79	81	94	97	95	91	92	91	89	88	86	85	82	82	85	87
800	63	60	59	63	69	73	72	71	77	79	91	95	93	88	89	88	87	85	83	82	78	77	78	79
1000	61	58	57	60	66	70	69	68	75	76	89	93	91	86	87	86	84	82	79	77	73	71	71	69
1250	59	56	54	57	63	67	66	64	72	74	87	91	88	83	84	83	81	78	75	73	68	64	62	57
1600	57	53	51	53	60	63	62	61	68	72	85	88	86	81	81	80	77	74	71	67	62	57	52	43
2000	54	49	47	50	56	59	58	57	65	70	82	86	83	78	78	76	74	70	65	61	55	47	39	25
2500	50	45	43	45	51	55	54	52	61	66	80	83	80	75	75	73	69	65	60	53	46	36	24	4
3150	46	41	38	40	47	50	49	47	56	61	76	80	77	71	71	68	65	60	53	44	36	23	5	
4000	42	36	33	35	41	44	43	41	51	57	72	77	74	68	67	64	59	53	44	34	24	6		
5000	36	31	28	30	36	39	38	36	45	51	67	72	70	64	62	58	53	45	35	21	9			
6300	31	26	23	25	31	34	33	31	39	45	63	67	65	59	57	52	45	36	23	5				
8000	29	24	21	23	29	32	30	28	36	42	59	63	60	54	51	44	36	25	8					
10000	27	22	19	21	26	29	28	25	32	38	55	58	55	47	43	36	26	11						
12500	25	20	16	18	24	26	25	22	29	34	50	53	49	40	35	25	13							
16000	22	17	14	15	21	23	21	18	25	29	45	47	41	31	24	12								
20000	20	15	11	13	18	20	18	14	20	24	39	40	33	21	12									
25000	17	12	8	10	14	16	13	10	15	18	32	31	22	8										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) IDENTIFICATION:											
( TAKEOFF POWER 900 C TIT ) TEMP ) OMEGA 5.6											
( 90 % RPM ) REL HUMID = 70 % ) A/C CODE: 038											
( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) OPS CODE: 103											
) PROFILE VER: B											
) 22 AUG 77											
) PAGE M2											
SLANT DISTANCE	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**				
( FEET )	( DBA )	( DBA )	( PMDB )	( PMDB )	( DB )	( DB )	( EPNDR )				
200	115.6	117.4	127.7	129.5	113.3	114.5	117.9				
250	112.8	114.6	124.6	126.4	111.4	112.7	115.8				
315	110.0	111.8	121.3	123.2	109.6	110.9	113.6				
400	107.2	109.1	117.9	119.7	107.9	109.2	111.1				
500	104.5	106.4	115.1	116.9	105.2	107.5	109.3				
630	101.9	103.8	112.1	114.0	104.6	105.9	107.4				
800	99.4	101.2	109.2	111.1	103.1	104.3	105.5				
1000	96.8	98.7	106.2	108.1	101.5	102.8	103.5				
1250	94.2	96.0	103.1	105.0	99.9	101.1	101.4				
1600	91.5	93.3	99.9	101.8	98.1	99.4	99.2				
2000	88.7	90.5	96.6	98.4	96.3	97.5	96.8				
2500	85.7	87.5	93.1	94.9	94.3	95.6	94.3				
3150	82.4	84.2	89.3	91.2	92.1	93.3	91.6				
4000	78.6	80.1	85.0	86.4	89.3	90.3	87.9				
5000	74.2	75.3	80.0	81.1	85.9	86.6	83.7				
6300	69.3	70.1	74.6	75.4	82.0	82.5	79.1				
8000	64.8	65.2	69.9	70.2	73.5	78.7	75.1				
10000	59.8	59.8	64.6	64.6	74.5	74.5	70.5				
12500	54.2	54.2	58.5	58.5	69.9	69.9	65.5				
16000	47.9	47.9	51.6	51.6	64.5	64.5	59.6				
20000	40.6	40.6	43.6	43.6	58.3	58.3	52.6				
25000	32.3	32.3	33.4	33.4	51.0	51.0	43.4				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	F-16	90 % RPM	TAKEOFF POWER						
250	(	(	(	(	(	(	(	(	(
	900 C TIT								
315	(	(	(	(	(	(	(	(	(
	AIRSPED = 350 KNOTS								
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
500	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 D3								
	NO. OF RECORDS: 7								
	IDENT: 9.6-038-103-220877-8								
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 800	(	(	(	(	(	(	(	(	(
N 1000	(	(	(	(	(	(	(	(	(
T 1000	(	(	(	(	(	(	(	(	(
D 1250	(	(	(	(	(	(	(	(	(
I 1600	(	(	(	(	(	(	(	(	(
S 1600	(	(	(	(	(	(	(	(	(
T 2000	(	(	(	(	(	(	(	(	(
A 2000	(	(	(	(	(	(	(	(	(
N 2500	(	(	(	(	(	(	(	(	(
G 3150	(	(	(	(	(	(	(	(	(
E 4000	(	(	(	(	(	(	(	(	(
I 5000	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(
E 8000	(	(	(	(	(	(	(	(	(
T 10000	(	(	(	(	(	(	(	(	(
	X	X	X	X	X	X	X	X	X
12500	(	(	(	(	(	(	(	(	(
	X	X	X	X	X	X	X	X	X
16000	(	(	(	(	(	(	(	(	(
	X	X	X	X	X	X	X	X	X
20000	(	(	(	(	(	(	(	(	(
	X	X	X	X	X	X	X	X	X
25000	(	(	(	(	(	(	(	(	(

GROUND TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

NOISE LEVEL IN DB

Altitude (ft)	Frequency (MHz)	Mode	Signal Characteristics	Noise Level (dB)
200	( )	( )	( )	( )
	( )	( )	F-16 TAKEOFF POWER	( )
	( )	( )	90 % RPM 900 C TIT	( )
250	( )	( )	AIRSPEED = 350 KNOTS	( )
	( )	( )	REL HUMID = 70 %	( )
315	( )	( )	TEMP = 59 F	( )
	( )	( )	DELTA N = 0.0 DB	( )
400	( )	( )	NO. OF RECORDS: 7	( )
	( )	( )	IDENT: 6.6-038-103-220877-B	( )
500	( )	( )	( )	( )
630	( )	( )	( )	( )
800	( )	( )	( )	( )
1000	( )	( )	( )	( )
1250	( )	( )	( )	( )
1600	( )	( )	( )	( )
2000	( )	( )	( )	( )
2500	( )	( )	( )	( )
3150	( )	( )	( )	( )
4000	( )	( )	( )	( )
5000	( )	( )	( )	( )
6300	( )	( )	( )	( )
8000	( )	( )	( )	( )
10000	( )	( )	( )	( )
12500	( )	( )	( )	( )
16000	( )	( )	( )	( )
20000	( )	( )	( )	( )
25000	( )	( )	( )	( )



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		A/C CODE: 038																						
( OPERATIONS:		OPS CODE: 105																						
( APPROACH POWER		PROFILE VEP: B																						
( 82 % RPM 650 C TIT )		22 AUG 77																						
( (		PAGE M3																						
( ( AIRSPEED = 130 KNOTS		DELTA N = 0.0 DB																						
( (		METEOROLOGY:																						
( (		TEMP = 59 F																						
( (		REL HUMID = 70 %																						
( (		DELTA N = 0.0 DB																						
( (		FREQUENCY BAND NUMBER																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	77	80	93	98	99	94	95	98	94	95	94	93	92	90	88	85	82	80	77	72	72	76	84
250	83	75	78	91	96	97	92	93	96	92	93	92	90	90	88	85	83	80	78	75	70	69	73	81
315	81	73	76	89	94	95	90	91	94	90	91	90	88	88	86	83	81	78	76	72	67	67	69	77
400	79	71	74	87	92	93	88	89	92	88	89	88	86	85	84	81	78	75	73	70	64	63	66	72
500	77	69	72	85	90	91	86	86	90	86	87	86	84	83	81	79	76	73	70	67	61	60	62	67
630	75	67	70	83	88	89	84	84	88	84	85	84	82	81	79	76	74	70	58	64	58	56	57	61
800	73	65	68	81	86	87	82	82	86	82	83	82	80	79	77	74	71	67	65	60	54	52	52	55
1000	71	63	66	79	84	85	80	80	84	80	81	80	78	76	74	72	68	65	62	57	50	47	46	47
1250	69	61	64	77	82	83	78	78	82	77	78	77	75	74	72	69	66	61	58	52	46	41	38	37
1600	67	59	62	75	80	81	75	76	80	75	76	75	73	71	69	66	62	58	54	48	40	35	30	25
2000	65	57	60	73	76	79	73	74	77	73	74	72	70	69	66	63	59	54	50	42	34	27	19	11
2500	63	55	58	71	76	76	71	72	75	71	71	70	68	66	63	60	55	50	44	36	27	18	7	
3150	61	53	56	69	74	74	69	69	73	68	69	67	65	63	60	56	51	45	39	28	19	7		
4000	59	51	54	67	71	72	67	67	70	66	66	64	62	60	56	52	46	39	32	20	9			
5000	57	49	52	65	69	70	64	65	68	63	63	61	58	56	52	47	41	33	24					
6300	55	47	50	62	67	68	62	62	65	60	60	58	55	52	48	42	35	25	14					
8000	53	45	47	60	65	65	59	60	63	57	57	55	51	47	42	35	27	16	2					
10000	50	43	45	58	62	63	57	57	59	54	53	50	46	42	36	28	18	5						
12500	48	40	43	55	60	60	54	54	56	50	49	46	41	36	29	19	8							
16000	46	38	41	53	57	57	51	50	53	46	45	41	34	28	20	9								
20000	44	36	38	50	54	54	48	47	49	42	39	34	27	20	10									
25000	41	33	35	48	51	51	44	43	44	36	33	27	19	10										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
AIR-TO-GROUND PROPAGATION											
IDENTIFICATION:											
OMEGA 6.6											
AIRCRAFT:											
OPERATION:											
METEOROLOGY:											
APPROACH POWER = 59 F											
TEMP = 70 %											
REL HUMID = 70 %											
PROFILE VER: B											
22 AUG 77											
PAGE I3											
AIRSPEED = 130 KNOTS											
DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	101.1	101.6	113.2	113.8	101.5	102.4	104.7				
250	99.0	99.6	111.1	111.6	100.4	101.3	103.5				
315	96.9	97.4	108.9	109.4	99.3	100.2	102.3				
400	94.8	95.3	106.6	107.2	98.2	99.1	101.1				
500	92.6	93.2	104.4	104.9	97.1	98.0	99.8				
630	90.4	91.0	102.1	102.6	95.9	96.8	98.5				
800	88.2	88.8	99.7	100.3	94.7	95.6	97.2				
1000	86.0	86.6	97.3	97.9	93.4	94.3	95.8				
1250	83.7	84.3	94.8	95.4	92.1	93.0	94.3				
1600	81.3	81.9	92.3	92.9	90.8	91.7	92.8				
2000	78.9	79.5	89.7	90.3	89.4	90.3	91.2				
2500	76.4	76.9	87.0	87.6	87.8	88.7	89.5				
3150	73.7	74.3	84.2	84.8	86.2	87.1	87.7				
4000	71.0	71.5	81.3	81.8	84.5	85.2	85.6				
5000	68.2	68.5	78.3	78.6	82.6	83.2	83.4				
6300	65.2	65.4	75.1	75.4	80.6	81.0	81.1				
8000	62.0	62.1	71.8	71.9	78.5	78.7	78.6				
10000	58.7	58.7	68.2	68.2	76.2	76.2	75.8				
12500	55.2	55.2	64.4	64.4	73.7	73.7	73.0				
16000	51.5	51.5	60.3	60.3	71.0	71.0	69.9				
20000	47.6	47.6	55.8	55.8	68.1	68.1	66.4				
25000	43.5	43.5	51.3	51.3	65.0	65.0	62.8				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----X-----A+-----*P-----)
( F-16 APPROACH POWER )
( . 82 % RPM 650 C TIT )
( AIRSPEED = 130 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
( . DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 4 )
( . IDENT: 6.6-038-105-220877-B )
500 ( . . . . . X . . . . . *P . . . . . )
( . . . . . )
S 630 ( . . . . . A+ . . . . . *P . . . . . )
L ( . . . . . )
A 800 ( . . . . . A+ . . . . . X . . . . . )
N ( . . . . . )
T 1000 ( . . . . . A+ . . . . . *P . . . . . )
( . . . . . )
D 1250 ( . . . . . X . . . . . X . . . . . )
I ( . . . . . )
S 1600 ( . . . . . A+ . . . . . *P . . . . . )
T ( . . . . . )
A 2000 ( . . . . . X . . . . . X . . . . . )
N ( . . . . . )
C 2500 ( . . . . . A+ . . . . . *P . . . . . )
E ( . . . . . )
3150 ( . . . . . X . . . . . *P . . . . . )
I ( . . . . . )
N 4000 ( . . . . . X . . . . . *P . . . . . )
( . . . . . )
F 5000 ( . . . . . A+ . . . . . *P . . . . . )
E ( . . . . . )
E 6300 ( . . . . . X . . . . . X . . . . . )
T ( . . . . . )
8000 ( . . . . . X . . . . . X . . . . . )
( . . . . . )
10000 ( . . . . . X . . . . . X . . . . . )
( . . . . . )
12500 ( . . . . . X . . . . . X . . . . . )
( . . . . . )
16000 ( . . . . . X . . . . . X . . . . . )
( . . . . . )
20000 ( . . . . . X . . . . . X . . . . . )
( . . . . . )
25000 (-----X-----A+-----*P-----)
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

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AIR TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL



```

200 (-----X-E-----)
( F-16 APPROACH POWER
( . 82 % RPM 650 C TIT
( . AIRSPEED = 130 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 %
( . DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 4
( . IDENT: 6.6-038-105-220877-B
500 ( . . . . .
( . . . . .
S 630 ( . . . . .
L ( . . . . .
A 800 ( . . . . .
N ( . . . . .
T 1000 ( . . . . .
( . . . . .
D 1250 ( . . . . .
I ( . . . . .
S 1600 ( . . . . .
T ( . . . . .
A 2000 ( . . . . .
N ( . . . . .
C 2500 ( . . . . .
E ( . . . . .
I 3150 ( . . . . .
N ( . . . . .
4000 ( . . . . .
( . . . . .
F 5000 ( . . . . .
E ( . . . . .
E 6300 ( . . . . .
T ( . . . . .
8000 ( . . . . .
( . . . . .
10000 ( . . . . .
( . . . . .
12500 ( . . . . .
( . . . . .
16000 ( . . . . .
( . . . . .
20000 ( . . . . .
( . . . . .
25000 (-----E-X-----)

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30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

```

TABLE 1		SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)																	IDENTIFICATION:						
		GROUND-TO-GROUND PROPAGATION																	OMEGA 6.6						
AIRCRAFT:		OPERATION:																	A/C CODE: 038						
F-16		APPROACH POWER 650 C TIT																	OPS CODE: 105						
		82 % RPM																	PROFILE VER: B						
		AIRSPEED = 130 KNOTS																	22 AUG 77						
		DELTA N = 0.0 DB																	PAGE L3						
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	72	75	88	93	94	89	93	93	89	90	89	88	87	85	83	80	77	75	72	67	67	71	79	
250	78	70	73	86	91	92	87	88	91	87	88	87	85	85	83	80	78	75	73	70	65	64	68	76	
315	76	68	71	84	89	90	85	86	89	85	86	85	83	83	81	78	76	73	71	67	62	62	64	72	
400	74	66	69	82	87	88	83	84	87	83	84	83	81	80	79	76	73	70	68	65	59	58	61	67	
500	72	64	67	80	85	85	80	81	85	81	82	81	79	78	76	74	71	68	65	62	56	55	57	62	
630	70	62	65	78	82	83	78	79	83	79	80	79	77	76	74	71	69	65	63	59	53	51	52	56	
800	68	60	63	76	80	80	75	76	81	77	78	77	75	74	72	69	66	62	60	55	49	47	47	50	
1000	66	58	61	73	77	77	72	73	79	75	76	75	73	71	69	67	63	60	57	52	45	42	41	42	
1250	64	56	58	70	74	74	69	70	76	72	73	72	70	69	67	64	61	56	53	47	41	36	33	32	
1600	62	53	55	66	70	70	65	66	73	70	71	70	68	66	64	61	57	53	49	43	35	30	25	20	
2000	59	50	51	63	66	67	61	62	69	68	69	67	65	64	61	58	54	49	45	37	29	22	14	6	
2500	55	46	47	58	62	62	57	58	65	64	60	65	63	61	58	55	50	45	39	31	22	13	2		
3150	51	41	42	54	57	57	52	53	60	60	63	62	60	58	55	51	46	40	34	23	14	4			
4000	47	36	37	48	51	52	40	47	55	55	59	59	57	55	51	47	41	34	27	15	4				
5000	42	31	32	43	47	47	41	42	49	50	55	55	53	51	47	42	36	28	19	4					
6300	37	27	28	38	42	42	36	37	43	44	50	50	49	47	43	37	30	20	9						
8000	35	25	25	36	40	40	34	35	41	41	47	47	45	42	37	30	22	11							
10000	32	23	23	34	37	37	31	32	37	38	43	42	40	37	31	23	13								
12500	30	20	21	31	35	34	28	29	34	34	39	38	35	31	24	14	3								
16000	28	18	19	29	32	32	25	25	31	30	35	33	28	23	15	4									
20000	26	16	16	26	29	29	22	22	27	26	29	26	21	15	5										
25000	23	13	13	24	26	25	19	18	22	20	23	19	13	5											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NGISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-16	96.1	96.8	108.2	108.9	96.5	97.5	99.8	OMEGA 6.6	
	94.0	94.7	106.0	106.7	95.4	96.5	98.6	A/C CODE: 038	
	91.9	92.6	103.8	104.5	94.3	95.4	97.4	OPS CODE: 105	
	89.7	90.4	101.6	102.2	93.2	94.2	96.2	PROFILE VER: B	
	87.6	88.3	99.2	99.9	92.0	93.1	94.8	22 AUG 77	
	85.4	86.1	96.8	97.5	90.8	91.8	93.4	PAGE M3	
	83.1	83.8	94.4	95.0	89.6	90.6	92.0		
	80.8	81.4	91.7	92.4	88.2	89.2	90.3		
	78.3	79.0	88.6	89.3	86.7	87.7	88.2		
	75.7	76.4	85.3	86.0	85.1	86.1	85.9		
	73.0	73.7	82.2	82.9	83.4	84.5	83.8		
	70.0	70.7	78.8	79.5	81.5	82.5	81.4		
	66.7	67.4	74.9	75.6	79.2	80.2	78.5		
	63.0	63.6	70.4	71.0	76.5	77.3	74.8		
	58.8	59.3	65.6	66.0	73.3	73.9	70.8		
	54.4	54.6	60.6	60.9	69.8	70.2	66.6		
	50.4	50.6	56.5	56.7	66.9	67.1	63.3		
	46.1	46.1	52.0	52.0	63.6	63.6	59.5		
	41.4	41.4	46.9	46.9	59.9	59.9	55.5		
	36.3	36.3	41.0	41.0	55.7	55.7	50.5		
	30.7	30.7	33.4	33.4	51.1	51.1	44.0		
	24.6	24.6	23.4	23.4	46.1	46.1	35.0		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
	F-16	82 % RPM	APPROACH POWER						
250	(	(	(	(	(	(	(	(	(
		650 C TIT							
315	(	(	(	(	(	(	(	(	(
	AIR SPEED = 130 KNOTS	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	DELTA N = 0.0 DB							
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 4	IDENT: 6.6-038-105-220877-B							
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(
N 1250	(	(	(	(	(	(	(	(	(
T 1600	(	(	(	(	(	(	(	(	(
D 2000	(	(	(	(	(	(	(	(	(
I 2500	(	(	(	(	(	(	(	(	(
S 3150	(	(	(	(	(	(	(	(	(
F 4000	(	(	(	(	(	(	(	(	(
A 5000	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(
C 8000	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(
I 12500	(	(	(	(	(	(	(	(	(
N 16000	(	(	(	(	(	(	(	(	(
G 20000	(	(	(	(	(	(	(	(	(
E 25000	(	(	(	(	(	(	(	(	(

GROUND TO GROUND  
P = PNLT  
\* = PNL  
† = ALT  
A = AL

```

200 (-----ST-E)
( F-16 APPROACH POWER
250 ( . 02 % RPM 650 C TIT . . . . . ST E.
( AIRSPEED = 130 KNOTS . . . . .
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST E.
( DELTA N = 0.0 DB . . . . .
400 ( . NO. OF RECORDS: 4 . . . . . ST E.
( IDENT: 6.6-038-105-220877-B . . . . .
500 ( . . . . . ST.E.
( . . . . .
630 ( . . . . . STE
( . . . . .
800 ( . . . . . STE
( . . . . .
1000 ( . . . . . STE
( . . . . .
1250 ( . . . . . SX
( . . . . .
1600 ( . . . . . SX
( . . . . .
2000 ( . . . . . SX
( . . . . .
2500 ( . . . . . XT
( . . . . .
3150 ( . . . . . EST
( . . . . .
4000 ( . . . . . EST
( . . . . .
5000 ( . . . . . E.ST
( . . . . .
6300 ( . . . . . E X
( . . . . .
8000 ( . . . . . E X
( . . . . .
10000 ( . . . . . E X
( . . . . . GROUND TO GROUND
12500 ( . . . . . E X
( . . . . . E = EPNL
16000 ( . . . . . .E X
( . . . . . T = SELT
20000 ( . . . . . E X
( . . . . . S = SEL
25000 (-----E-----X-----)
20 30 40 50 60 70 80 90 100
NOISE LEVEL IN DB

```

	20	30	40	50	60	70	80	90	MEAN	SD
50	.	.	.	.	.	.	.	.	71.2	3.4
63	.	.	.	.	.	X	.	.	69.5	5.1
80	.	.	.	.	X	.	.	.	66.4	6.2
100	.	.	.	.	.	.	X	.	75.7	1.2
125	.	.	.	.	.	.	.	X	83.3	2.0
160	.	.	.	.	.	.	.	X	86.7	1.0
200	.	.	.	.	.	.	.	X	85.3	3.2
250	.	.	.	.	.	.	X	.	80.2	1.7
315	.	.	.	.	.	.	.	X	87.2	1.7
400	.	.	.	.	.	X	.	.	82.5	1.7
500	.	.	.	.	.	.	.	X	84.7	1.7
630	.	.	.	.	.	.	X	.	82.5	1.3
800	.	.	.	.	.	.	X	.	81.0	1.6
1000	.	.	.	.	.	.	X	.	80.1	1.2
1250	.	.	.	.	.	.	X	.	78.4	1.9
1600	.	.	.	.	.	.	X	.	76.8	1.9
2000	.	.	.	.	.	.	X	.	75.0	2.0
2500	.	.	.	.	.	X	.	.	71.7	2.2
3150	.	.	.	.	.	.	X	.	67.9	2.6
4000	.	.	.	.	.	X	.	.	62.2	2.7
5000	.	.	.	.	X	.	.	.	55.3	3.5
6300	.	.	.	X	.	.	.	.	51.2	4.6
8000	.	.	.	.	.	.	.	.	48.8	6.2
10000	.	.	.	.	.	.	.	.	48.2	8.1

F-16 INTERMEDIATE POWER 85 % RPM 750 C TIT

AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 101.7 PNOB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 73 % PNL = 100.8 PNOB  
 NO. OF RECORDS = 8 IDENT: 6.6-038-106-220877 ALT = 90.6 DBA  
 AL = 89.6 DBA



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
OPERATIONS: METEOROLOGY: A/C CODE: 038									
INTERMEDIATE POWER = 59 F OPS CODE: 106									
85 % RPM 750 C TIT REL HUMID = 70 % PROFILE VER: B									
AIRSPEED = 300 KNOTS DELTA N = 9.0 DB 22 AUG 77									
PAGE 14									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDR)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)	IDENTIFICATION:	
200	105.0	106.0	117.0	117.9	104.9	105.9	107.5	OMEGA 6.6	
250	102.9	103.9	114.8	115.7	103.8	104.8	106.4		
315	100.7	101.7	112.6	113.5	102.7	103.7	105.1		
400	98.6	99.6	110.3	111.3	101.5	102.5	103.9		
500	96.4	97.4	108.0	109.0	100.4	101.3	102.6		
630	94.2	95.2	105.7	106.6	99.1	100.1	101.2		
800	91.9	92.9	103.2	104.2	97.9	98.9	99.8		
1000	89.6	90.6	100.8	101.7	96.6	97.5	98.3		
1250	87.2	88.2	98.2	99.2	95.2	96.2	96.8		
1600	84.8	85.8	95.6	96.6	93.7	94.7	95.2		
2000	82.3	83.2	92.9	93.9	92.2	93.2	93.5		
2500	79.6	80.6	90.2	91.2	90.6	91.6	91.8		
3150	76.9	77.9	87.3	88.3	88.9	89.8	89.9		
4000	74.1	74.8	84.3	85.1	87.0	87.8	87.7		
5000	71.1	71.7	81.2	81.8	85.0	85.6	85.4		
6300	68.0	68.4	77.9	78.3	82.9	83.3	82.9		
8000	64.7	64.9	74.4	74.6	80.6	80.8	80.2		
10000	61.2	61.2	70.8	70.8	78.2	78.2	77.3		
12500	57.6	57.6	66.8	66.8	75.5	75.5	74.4		
16000	53.7	53.7	62.4	62.4	72.6	72.6	71.0		
20000	49.5	49.5	57.7	57.7	69.5	69.5	67.3		
25000	45.1	45.1	52.6	52.6	66.1	66.1	63.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



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200 (-----INTERMEDIATE POWER-----A+-----*P-----)
    ( F-16      85 % RPM      750 C TIT      )
250 ( . AIRSPEED = 300 KNOTS      )
315 ( . TEMP = 59 F  REL HUMID = 70 %      )
400 ( . DELTA N = 6.0 DB      )
500 ( . NO. OF RECORDS: 8      )
    ( . IDENT: 6.6-038-106-220877-B      )
    ( . . . . .      )
S 630 ( . . . . .      )
L 600 ( . . . . .      )
A 800 ( . . . . .      )
N 1000 ( . . . . .      )
T 1000 ( . . . . .      )
D 1250 ( . . . . .      )
I 1600 ( . . . . .      )
S 1600 ( . . . . .      )
T 2000 ( . . . . .      )
A 2000 ( . . . . .      )
N 2500 ( . . . . .      )
C 3150 ( . . . . .      )
E 4000 ( . . . . .      )
I 5000 ( . . . . .      )
E 6300 ( . . . . .      )
T 8000 ( . . . . .      )
10000 ( . . . . .      )
12500 ( . . . . .      )
16000 ( . . . . .      )
20000 ( . . . . .      )
25000 ( . . . . .      )
    (-----X-----50-----60-----70-----80-----90-----100-----110-----120-----)
    (-----NOISE LEVEL IN DB-----)

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200 (-----ST-E-----)
( F-16 INTERMEDIATE POWER )
( . 95 % RPM 750 C TIT )
( AIRSPEED = 300 KNOTS )
315 ( TEMP = 59 F REL HUMID = 70 % )
( DELTA N = 0.0 DB )
400 ( NO. OF RECORDS: 8 )
( IDENT: 6.6-038-106-220877-8 )
500 ( . . . . . )
( . . . . . )
S 630 ( . . . . . )
L ( . . . . . )
A 800 ( . . . . . )
N ( . . . . . )
T 1000 ( . . . . . )
( . . . . . )
D 1250 ( . . . . . )
I ( . . . . . )
S 1600 ( . . . . . )
T ( . . . . . )
A 2000 ( . . . . . )
N ( . . . . . )
C 2500 ( . . . . . )
E ( . . . . . )
3150 ( . . . . . )
I ( . . . . . )
N 4000 ( . . . . . )
( . . . . . )
F 5000 ( . . . . . )
E ( . . . . . )
E 6300 ( . . . . . )
T ( . . . . . )
6000 ( . . . . . )
( . . . . . )
10000 ( . . . . . )
( . . . . . )
12500 ( . . . . . )
( . . . . . )
16000 ( . . . . . )
( . . . . . )
20000 ( . . . . . )
( . . . . . )
25000 ( . . . . . )
(-----E-X-----)
30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 038																							
( OPERATIONS:		OPS CODE: 106																							
( INTERMEDIATE POWER		PROFILE VER: B																							
( 85 % RPM 750 C IIT )		22 AUG 77																							
( 59 F		PAGE L4																							
( REL HUMID = 70 %																									
( AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																							
( FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	80	79	75	85	93	96	95	90	97	92	94	92	91	90	89	88	87	85	82	82	78	73	72	75	83
250	78	77	73	83	91	94	93	88	95	90	92	90	89	88	87	86	85	82	80	80	76	70	70	72	79
315	76	75	71	81	88	92	91	86	93	88	90	88	87	86	85	84	82	80	77	73	68	67	69	75	
400	74	73	69	79	86	90	88	83	91	86	88	86	85	84	83	81	80	78	75	71	65	63	65	71	
500	72	71	67	77	84	87	86	81	88	84	86	84	83	82	80	79	78	75	72	68	62	60	61	65	
630	70	69	65	75	82	85	83	79	86	82	84	82	80	80	78	77	75	72	69	65	58	56	56	59	
800	68	67	63	72	79	82	81	76	84	80	82	80	78	77	76	74	73	70	66	61	55	51	50	52	
1000	66	65	61	69	76	79	78	73	82	78	80	77	76	75	73	72	70	67	63	57	50	46	44	43	
1250	64	63	58	66	73	76	74	70	79	75	77	75	74	73	71	69	67	63	59	53	46	40	36	33	
1600	62	59	55	63	69	72	71	66	76	73	75	73	71	70	68	66	64	60	55	48	40	33	27	20	
2000	59	56	51	59	66	68	67	62	72	71	73	70	69	67	65	63	60	56	50	42	34	25	16	5	
2500	55	52	47	55	61	64	63	58	68	67	70	68	66	64	62	59	57	52	45	35	26	15	2		
3150	51	47	42	50	56	59	58	53	64	63	67	65	63	61	59	56	52	46	39	28	17	3			
4000	47	42	37	44	51	53	52	47	58	58	63	62	60	58	55	51	47	40	32	18	6				
5000	42	38	32	40	46	49	47	42	52	52	59	57	56	54	51	46	41	34	23	7					
6300	37	33	28	35	41	44	42	37	46	47	54	53	52	50	46	41	35	25	13						
8000	35	31	25	33	39	41	39	34	43	44	51	49	47	45	40	34	27	15	0						
10000	32	29	23	30	36	39	37	31	40	40	47	45	42	39	34	26	17	4							
12500	30	26	21	28	34	36	34	28	37	37	43	40	37	33	26	17	6								
16000	28	24	18	25	31	33	31	25	33	32	38	34	30	25	17	6									
20000	26	22	16	23	28	30	27	21	29	27	32	28	23	16	6										
25000	23	19	13	20	25	27	24	17	24	22	26	20	13	5											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:		METEOROLOGY:		IDENTIFICATION:				
F-16	INTERMEDIATE POWER	TEMP	A/C CODE: 038						
	85 % RPM	REL HUMID = 70 %	OPS CODE: 106						
	AIR SPEED = 300 KNOTS	DELTA N = 0.0 DB	PROFILE VER: B						
			22 AUG 77						
			PAGE M4						
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	100.0	101.1	111.9	113.1	99.9	101.1	102.7		
250	97.9	99.0	109.7	110.9	98.8	100.0	101.5		
315	95.7	96.9	107.5	108.7	97.7	98.8	100.3		
400	93.6	94.7	105.2	106.4	96.5	97.7	99.0		
500	91.4	92.5	102.9	104.0	95.3	96.5	97.6		
630	89.1	90.3	100.4	101.6	94.1	95.2	96.2		
800	86.8	88.0	97.9	99.1	92.8	93.9	94.7		
1000	84.4	85.6	95.2	96.4	91.4	92.5	93.0		
1250	81.9	83.0	92.2	93.3	89.9	91.0	90.9		
1600	79.3	80.4	89.1	90.2	88.2	89.4	88.8		
2000	76.5	77.6	86.0	87.1	86.5	87.6	86.7		
2500	73.5	74.6	82.5	83.7	84.4	85.6	84.3		
3150	70.1	71.2	78.5	79.6	82.0	83.2	81.3		
4000	66.3	67.2	74.0	74.9	79.3	80.2	77.5		
5000	62.0	62.7	69.2	69.8	76.0	76.6	73.4		
6300	57.4	57.8	64.0	64.5	72.3	72.8	69.1		
8000	53.3	53.5	59.8	60.0	69.2	69.4	65.6		
10000	48.8	48.8	55.1	55.1	65.7	65.7	61.7		
12500	43.9	43.9	50.0	50.0	61.8	61.8	57.6		
16000	38.6	38.6	44.1	44.1	57.5	57.5	52.7		
20000	32.7	32.7	36.7	36.7	52.7	52.7	46.2		
25000	26.4	26.4	27.0	27.0	47.3	47.3	37.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.





	0	10	20	30	40	50	60	70	MEAN	SD
F	.	.	.	.	.	.	.	.	53.2	3.8
R	.	.	.	.	.	.	.	.	52.9	4.7
E	.	.	.	.	.	.	.	.	54.3	3.4
T	.	.	.	.	.	.	.	.	61.2	2.1
U	.	.	.	.	.	.	.	.	65.8	1.5
E	.	.	.	.	.	.	.	.	68.0	1.9
T	.	.	.	.	.	.	.	.	62.0	3.1
U	.	.	.	.	.	.	.	.	66.3	1.8
E	.	.	.	.	.	.	.	.	68.6	2.4
N	.	.	.	.	.	.	.	.	66.0	1.1
G	.	.	.	.	.	.	.	.	66.7	1.5
V	.	.	.	.	.	.	.	.	67.2	1.1
I	.	.	.	.	.	.	.	.	68.6	3.3
N	.	.	.	.	.	.	.	.	65.2	1.3
H	.	.	.	.	.	.	.	.	64.3	2.4
Z	.	.	.	.	.	.	.	.	62.6	2.7
	.	.	.	.	.	.	.	.	60.7	2.6
	.	.	.	.	.	.	.	.	58.2	2.3
	.	.	.	.	.	.	.	.	54.6	2.0
	.	.	.	.	.	.	.	.	52.5	2.5
	.	.	.	.	.	.	.	.	48.6	3.0
	.	.	.	.	.	.	.	.	47.2	4.2
	.	.	.	.	.	.	.	.	46.3	4.7
	.	.	.	.	.	.	.	.	46.9	5.6

F-16      TRAFFIC PATTERN      75 % RPM      530 C TIT

AIRSPEED = 200 KNOTS      TEMP = 59 F      PNLT = 85.6 PNDB

SLANT DISTANCE = 1000 FEET      REL HUMID = 70 %      PNL = 84.9 PNDB

NO. OF RECORDS = 8      IDENT: 6.6-038-113-220877      ALT = 75.1 DBA

AL = 74.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION: )		A/C CODE: 038																							
( TRAFFIC PATTERN )		OPS CODE: 113																							
( 75 % RPM 530 C TIT )		REL HUMID = 70 %																							
( )		PROFILE VER: B																							
( AIRSPEED = 200 KNOTS )		DELTA N = 0.0 DB																							
( )		PAGE H5																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	67	67	68	75	80	82	76	81	83	80	81	82	83	80	80	80	79	77	75	73	73	70	71	75	83
250	65	65	66	73	78	80	74	79	81	78	79	80	81	78	78	78	76	75	73	71	70	67	69	72	79
315	63	63	64	71	76	78	72	77	79	76	77	78	79	76	76	74	74	73	71	68	68	65	66	69	75
400	61	61	62	69	74	76	70	74	77	74	75	76	77	74	73	72	71	69	66	65	62	63	65	71	
500	59	59	60	67	72	74	68	72	75	72	73	74	75	72	71	70	68	66	63	62	59	60	62	66	
630	57	57	58	65	70	72	66	70	73	70	71	72	73	70	69	67	66	64	61	59	56	57	61		
800	55	55	56	63	68	70	64	68	71	68	69	69	71	67	67	65	63	61	58	56	52	52	52	54	
1000	53	53	54	61	66	68	62	66	69	66	67	67	69	65	64	63	61	58	55	53	49	47	46	47	
1250	51	51	52	59	64	66	60	64	66	64	64	65	66	63	62	60	58	55	51	49	44	42	39	38	
1600	49	49	50	57	62	64	58	62	64	62	62	63	64	60	59	57	55	52	47	44	39	36	31	27	
2000	47	47	48	55	60	62	56	60	62	59	60	60	61	58	57	54	52	48	43	39	34	28	22	14	
2500	45	45	46	53	58	60	54	58	60	57	58	58	59	55	54	51	48	44	38	33	27	20	10		
3150	43	43	44	51	55	57	51	55	58	55	55	55	56	52	50	47	44	40	33	26	19	10			
4000	41	41	42	49	53	55	49	53	55	52	52	52	53	49	47	43	40	34	26	18	10				
5000	39	38	40	47	51	53	47	51	53	50	50	50	50	45	43	39	34	28	19	8					
6300	37	36	38	44	49	51	44	48	50	47	47	46	46	41	39	34	28	21	10						
8000	35	34	36	42	47	48	42	46	47	44	44	43	42	37	33	28	21	12							
10000	33	32	33	40	44	46	39	43	45	41	40	39	38	32	28	21	13	2							
12500	30	30	31	38	42	43	37	40	41	37	36	35	33	26	21	13	3								
16000	28	27	29	35	39	41	34	37	38	33	32	30	27	19	13	3									
20000	26	25	26	33	36	38	31	33	34	29	27	24	20	11	3										
25000	24	23	24	30	33	34	27	30	30	24	21	17	12	2											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIK-YO-GROUND PROPAGATION									
METEOROLOGY:									
TEMP = 59 F									
REL HUMID = 70 %									
DELTA N = 0.0 DB									
OPERATION:									
TRAFFIC PATTERN 530 C IIT									
75 % RPM									
AIRSPEED = 200 KNOTS									
IDENTIFICATION:									
OMEGA 6.6									
A/C CODE: 038									
OPS CODE: 113									
PROFILE VER: B									
22 AUG 77									
PAGE 15									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	90.4	91.0	102.4	103.1	91.2	92.3	94.8		
250	88.1	88.8	100.1	100.7	90.0	91.1	93.5		
315	85.9	86.5	97.7	98.4	88.7	89.9	92.1		
400	83.6	84.3	95.3	96.0	87.4	88.6	90.7		
500	81.3	82.0	92.8	93.5	86.2	87.3	89.3		
630	79.1	79.7	90.3	91.0	84.9	86.0	87.7		
800	76.7	77.4	87.7	88.3	83.6	84.7	86.1		
1000	74.4	75.1	84.9	85.6	82.2	83.4	84.3		
1250	72.0	72.7	82.1	82.8	80.8	82.0	82.6		
1600	69.5	70.2	79.3	80.0	79.4	80.5	80.7		
2000	67.0	67.6	76.4	77.1	77.8	78.9	78.8		
2500	64.3	65.0	73.4	74.1	76.1	77.3	76.8		
3150	61.5	62.2	70.3	70.9	74.4	75.5	74.7		
4000	58.6	59.2	67.1	67.7	72.5	73.4	72.3		
5000	55.6	56.0	63.9	64.3	70.4	71.1	69.8		
6300	52.3	52.6	60.4	60.7	68.2	68.6	67.2		
8000	48.9	49.0	56.8	56.9	65.7	66.0	64.3		
10000	45.3	45.3	52.9	52.9	63.1	63.1	61.1		
12500	41.5	41.5	48.6	48.6	60.3	60.3	57.8		
16000	37.4	37.4	43.7	43.7	57.3	57.3	53.9		
20000	33.2	33.2	38.2	38.2	54.0	54.0	49.5		
25000	28.8	28.8	32.2	32.2	50.6	50.6	44.4		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



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200 (-----ST-E-----)
    ( F-16 TRAFFIC PATTERN
250 ( 75 % RPM 530 C TIT ST E .
    ( AIRSPEED = 200 KNOTS
315 ( TEMP = 59 F REL HUMID = 70 % ST E .
    ( DELTA N = 0.0 DB S T.E .
    ( NO. OF RECORDS: 8
    ( IDENT: 6.6-038-113-220877-8 ST.E. . . . .
500 ( . . . . .
    ( . . . . .
630 ( . . . . . ST E .
    ( . . . . .
800 ( . . . . . STE .
    ( . . . . .
1000 ( . . . . . STE . . . . .
    ( . . . . .
1250 ( . . . . . STE .
    ( . . . . .
1600 ( . . . . . S.X .
    ( . . . . .
2000 ( . . . . . SX. . . . .
    ( . . . . .
2500 ( . . . . . SX .
    ( . . . . .
3150 ( . . . . . SET .
    ( . . . . .
4000 ( . . . . . XT .
    ( . . . . .
5000 ( . . . . . XT. . . . .
    ( . . . . .
6300 ( . . . . . EST. .
    ( . . . . .
8000 ( . . . . . E X .
    ( . . . . .
10000 ( . . . . . E.X. . . . .
    ( . . . . .
12500 ( . . . . . E X . AIR TO GROUND
    ( . . . . . E = EPNL
16000 ( . . . . . E X . T = SELT
    ( . . . . . S = SEL
20000 ( . . . . . E . X .
    ( . . . . .
25000 (-----X-----E-----)
    ( 20 30 40 50 60 70 80 90 100
    ( NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
OPERATION: METEOROLOGY:		A/C CODE: 038																							
TRAFFIC PATTERN		OPS CODE: 113																							
75% RPM 530 C III		PROFILE VER: B																							
AIRSPEED = 200 KNOTS		22 AUG 77																							
DELTA N = 0.0 DB		PAGE L5																							
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	62	62	63	70	75	77	71	76	78	75	76	77	78	75	75	74	72	70	68	68	68	65	66	70	73
250	60	60	61	68	73	75	69	74	75	73	74	75	76	73	73	71	70	68	66	65	65	62	64	67	74
315	58	58	59	66	71	73	67	72	74	71	72	73	74	71	71	69	68	66	63	63	60	61	64	70	
400	56	56	57	64	69	71	65	69	72	69	70	71	72	69	68	67	66	64	61	60	57	58	60	66	
500	54	54	55	62	67	68	63	67	70	67	68	69	70	67	66	65	63	61	58	57	54	55	57	61	
630	52	52	53	60	64	66	60	65	68	65	66	67	68	65	64	62	61	59	56	54	51	51	52	56	
800	50	50	51	58	61	63	57	62	66	63	64	64	66	62	62	60	58	56	53	51	47	47	47	49	
1000	48	48	49	55	59	60	54	59	63	61	62	62	64	60	59	58	56	53	50	48	44	44	41	42	
1250	46	46	46	52	55	57	51	56	60	59	59	60	61	58	57	55	53	50	46	44	39	37	34	33	
1600	44	43	43	43	43	43	48	52	57	57	57	58	59	55	54	52	50	47	42	39	34	31	26	22	
2000	41	39	39	45	48	48	44	48	54	54	55	55	55	53	52	49	47	43	38	34	29	23	17	9	
2500	37	35	35	40	44	45	39	44	50	51	52	53	54	50	49	46	43	39	33	28	22	15	5		
3150	34	31	30	35	39	41	34	39	45	47	49	50	51	47	45	42	39	35	28	21	14	5			
4000	29	26	25	30	33	35	29	33	40	42	45	47	48	44	42	38	35	29	21	13	5				
5000	24	21	20	25	29	30	24	28	34	36	41	43	44	40	38	34	29	23	14	3					
6300	19	16	16	20	24	25	19	23	23	31	37	38	40	36	34	29	23	10	5						
8000	17	14	14	18	22	23	17	21	25	28	34	35	36	32	28	23	16	7							
10000	15	12	11	16	19	20	14	18	23	25	30	31	32	27	23	16	8								
12500	12	10	9	14	17	18	11	15	19	21	26	27	27	21	16	8									
16000	10	7	7	11	14	15	8	12	16	17	22	22	21	14	8										
20000	8	5	4	9	11	12	5	8	12	13	17	16	14	6											
25000	6	3	2	6	8	9	2	5	8	8	11	9	6												

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION					IDENTIFICATION:					
AIRCRAFT:	OPERATION:	TRAFFIC PATTERN	530 C TIT	75 % RPM	DELTA N = 200 KNOTS	AIRSPEED = 200 KNOTS	REL HUMID = 70 %	TEMP = 59 F	METEOROLOGY:	OMEGA 6.6
F-16									A/C CODE: 038	
									OPS CODE: 113	
									PROFILE VER: B	
									22 AUG 77	
									PAGE M5	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)			
200	85.4	86.0	97.3	98.0	86.2	87.3	89.7			
250	83.1	83.8	95.0	95.6	85.0	86.1	88.4			
315	80.9	81.5	92.6	93.3	83.7	84.8	87.0			
400	78.6	79.2	90.2	90.9	82.4	83.5	85.6			
500	76.3	77.0	87.7	88.3	81.2	82.3	84.1			
630	74.0	74.7	85.1	85.7	79.9	81.0	82.4			
800	71.7	72.3	82.4	83.0	78.5	79.6	80.7			
1000	69.3	69.9	79.4	80.1	77.1	78.2	79.8			
1250	66.8	67.5	76.5	77.1	75.7	76.8	76.9			
1600	64.3	64.9	73.4	74.1	74.1	75.2	74.8			
2000	61.6	62.2	70.2	70.8	72.4	73.5	72.6			
2500	58.7	59.3	66.7	67.4	70.5	71.7	70.1			
3150	55.6	56.2	63.0	63.6	68.4	69.5	67.4			
4000	52.1	52.6	58.9	59.4	66.0	66.8	64.0			
5000	48.2	48.6	54.1	54.5	63.0	63.7	60.0			
6300	43.9	44.1	49.0	49.2	59.7	60.2	55.7			
8000	39.9	40.0	43.7	43.8	56.7	56.9	51.2			
10000	35.5	35.5	37.8	37.8	53.3	53.3	46.0			
12500	30.6	30.6	31.2	31.2	49.5	49.5	40.4			
16000	25.3	25.3	21.5	21.5	45.1	45.1	31.8			
20000	19.4	19.4	8.2	8.2	40.3	40.3	19.4			
25000	13.0	13.0			34.8	34.8	7.0			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.









TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 038																			
F-16 AIRCRAFT ( IDLE, 62% RPM ) TEMP = 59 F ) OPERATION CODE 01013																			
ENG. F100-PH-100(2) ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ( REL HUMID = 70% ) 13 APR 76																			
( ( DELTA N = 0.0 DB ) PAGE 01																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	68	72	71	68	70	71	67	67	68	69	69	68	69	70	69	73	67	67	48
63	69	72	71	67	70	71	67	67	68	69	69	68	69	71	70	71	67	67	48
80	71	72	71	67	70	70	67	67	68	69	69	68	69	71	70	68	67	67	48
100	73	72	71	67	70	70	67	67	68	69	69	68	69	71	70	73	67	67	48
125	73	72	71	71	70	69	68	71	70	69	70	72	72	72	72	74	73	68	48
160	75	74	73	71	71	71	70	69	69	69	68	68	69	69	68	69	69	66	48
200	74	72	71	71	71	70	67	67	67	65	68	70	72	73	71	68	71	63	48
250	73	72	72	72	70	68	66	67	65	65	68	70	72	73	74	70	70	64	48
315	75	73	74	72	70	68	66	65	64	62	65	67	69	70	70	68	66	61	48
400	76	74	75	73	71	69	65	64	65	62	65	67	69	70	68	67	63	60	48
500	76	76	76	74	72	69	66	64	64	62	64	65	69	69	69	65	64	60	48
630	78	77	79	76	77	73	70	70	67	65	65	67	72	72	71	67	69	66	48
800	79	79	80	77	77	74	70	64	64	62	60	64	67	69	66	64	63	59	48
1000	77	77	80	77	77	75	72	65	64	62	60	62	64	66	64	61	60	60	48
1250	79	78	81	78	78	76	72	65	64	62	60	62	64	64	64	61	60	63	48
1600	77	77	81	76	76	74	71	64	63	61	58	59	60	61	63	63	62	63	48
2000	82	79	84	80	79	77	75	69	67	61	62	51	61	63	66	66	64	64	51
2500	89	85	90	86	83	80	78	73	70	64	66	64	66	57	69	68	67	66	53
3150	84	82	83	80	80	77	74	71	65	62	63	66	68	59	70	68	66	65	49
4000	87	85	87	84	84	82	79	75	70	66	68	72	76	76	73	71	67	65	52
5000	80	77	78	76	77	75	71	67	64	59	59	63	66	67	67	66	63	60	44
6300	78	76	78	74	75	73	69	65	62	56	56	59	62	64	65	65	60	58	36
8000	74	72	74	70	70	69	66	61	58	54	55	58	61	62	63	64	58	57	28
10000	68	66	68	64	64	63	60	55	54	50	54	58	61	61	61	61	54	52	20
OVERALL	94	92	95	91	90	88	86	82	80	78	80	81	83	84	83	82	81	7A	62

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDR)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE										IDENTIFICATION:								
DISTANCE (FEET)	NOISE SOURCE/SUBJECT	OPERATION:										METEOROLOGY:				MISC:				
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	F-16	110.7	108.6	111.1	107.6	107.4	105.3	102.3	98.6	94.3	91.5	92.7	95.5	98.6	99.2	99.0	96.2	93.7	91.5	76.2
250	ENS. F100-PH-100(2)	108.5	106.2	108.9	105.3	105.0	102.9	100.0	96.2	92.0	89.2	90.3	93.2	96.2	96.9	95.7	93.9	91.3	89.1	73.9
315	GROUND RUNUP	106.1	103.8	106.6	103.0	102.6	100.5	97.5	93.8	90.2	86.7	87.9	90.8	93.8	94.5	93.2	91.4	88.9	86.8	71.6
400		103.7	101.3	104.2	100.6	100.1	98.0	95.0	91.3	87.7	84.2	85.4	88.2	91.2	91.9	90.7	88.9	86.4	84.3	69.2
500		101.2	98.6	101.7	98.1	97.4	95.3	92.3	88.6	85.0	81.6	82.7	85.6	88.6	89.3	88.1	86.2	83.8	81.8	66.7
630		98.6	95.9	99.1	95.5	94.6	92.5	89.5	85.8	82.4	78.8	79.9	82.7	85.7	86.4	85.2	83.4	81.0	79.2	64.0
800		95.8	93.2	96.3	92.7	91.6	89.4	86.5	82.7	79.6	75.8	76.9	79.7	82.7	83.4	82.2	80.3	78.1	76.4	61.2
1000		92.9	90.2	93.4	89.8	88.4	86.2	83.4	79.4	76.7	72.6	73.7	76.4	79.4	80.1	78.9	77.1	75.2	73.4	58.2
1250		89.7	87.1	90.3	86.7	85.2	82.8	80.2	76.1	73.5	69.3	70.3	72.9	75.8	76.5	75.4	73.5	72.0	70.2	54.8
1500		86.3	83.6	86.9	83.3	81.8	79.4	76.8	72.6	70.0	65.8	66.8	68.9	71.9	72.6	71.5	70.1	68.5	66.6	51.1
2000		82.6	79.9	83.2	79.6	78.0	75.6	73.0	68.7	66.2	62.0	63.0	64.6	67.6	68.3	67.4	66.1	64.6	62.8	46.9
2500		78.4	75.8	79.0	75.4	73.9	71.4	68.8	64.5	61.9	57.7	58.6	59.6	63.0	63.4	63.2	61.8	60.3	58.4	42.0
3150		73.8	71.2	74.5	70.9	69.3	66.8	64.1	59.7	57.1	52.7	53.6	55.2	58.9	59.2	58.9	56.8	56.1	53.6	36.0
4000		68.6	66.0	69.3	65.7	64.1	61.5	58.8	54.2	51.5	46.9	47.6	50.0	54.1	54.3	54.0	51.2	51.2	47.9	28.9
5000		62.7	60.2	63.5	59.8	58.3	55.6	52.6	47.6	44.5	40.8	41.3	44.1	48.5	48.8	48.4	44.6	45.1	42.0	14.3
6300		56.0	53.6	56.9	53.2	51.8	49.1	45.4	40.9	37.7	34.2	34.1	37.3	42.3	42.5	42.2	38.2	38.7	35.5	
8000		48.7	48.0	50.5	46.8	46.3	42.6	38.5	35.1	32.1	27.3	26.7	30.4	36.5	37.1	36.7	31.8	32.7	29.2	
10000		42.4	41.9	44.3	40.6	40.2	36.1	32.0	27.2	23.1	17.4	16.6	23.2	30.4	30.4	29.3	23.0	25.0	18.8	
12500		35.5	34.3	37.2	32.8	33.2	27.6	21.5	17.0	12.5	6.9	6.9	13.5	23.9	23.4	22.1	13.2	15.6	10.0	
16000		26.5	26.1	28.0	23.3	24.4	17.0	7.3	8.2	1.9		3.8	13.6	12.6	11.8	11.8	3.5	6.8	1.3	
20000		14.6	15.0	16.3	10.1	10.7	6.3						3.2	1.8	1.4					
25000		2.8	3.8	3.9																

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION: IDLE, 62% RPM SINGLE ENGINE																		
	METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.6	110.6	113.4	109.8	109.5	107.3	104.6	100.8	96.9	93.8	95.0	98.2	101.5	102.0	99.8	97.4	95.7	93.6	78.1
250	110.4	108.2	111.2	107.5	107.2	104.9	102.2	98.5	94.5	91.2	92.6	95.8	99.1	99.7	97.4	95.0	93.4	91.3	75.8
315	108.1	105.8	108.8	105.3	104.7	102.5	99.8	96.1	92.1	88.8	90.2	93.4	96.7	97.3	95.0	92.6	91.0	88.9	73.5
400	105.7	103.3	106.5	102.9	102.2	100.0	97.3	93.5	89.6	86.3	87.7	90.9	94.2	94.7	92.5	90.1	88.4	86.5	71.0
500	103.2	100.6	104.0	100.4	99.6	97.3	94.6	90.8	87.0	83.6	85.0	88.2	91.5	92.1	89.8	87.4	85.8	83.9	68.5
630	100.5	97.9	101.4	97.7	96.7	94.5	91.8	88.0	84.3	80.8	82.2	85.3	88.7	89.2	87.0	84.5	83.0	81.3	65.9
800	97.8	95.1	98.6	95.0	93.7	91.5	88.7	85.0	81.6	77.8	79.2	82.3	85.6	86.2	83.9	81.5	80.2	78.5	63.0
1000	94.8	92.2	95.7	92.1	90.5	88.2	85.7	81.7	78.6	74.6	76.0	79.1	82.3	82.9	80.7	78.2	77.2	75.5	60.0
1250	91.7	89.0	92.5	88.9	87.3	84.8	82.5	78.3	75.4	71.4	72.6	75.5	78.8	79.4	77.1	74.7	74.0	72.3	56.7
1600	88.2	85.6	89.1	85.5	83.9	81.4	79.1	74.9	72.0	67.9	69.1	71.6	74.8	75.4	73.3	71.2	70.5	68.8	52.9
2000	84.5	81.9	85.4	81.8	80.2	77.6	75.2	71.0	68.1	64.0	65.3	67.2	70.5	71.1	69.2	67.3	66.7	64.9	48.8
2500	80.4	77.8	81.3	77.7	76.0	73.4	71.1	66.7	63.9	59.7	60.9	62.2	65.9	66.2	64.9	63.0	62.3	60.6	43.8
3150	75.7	73.2	76.8	73.1	71.4	68.8	66.4	62.0	59.1	54.9	55.9	57.8	61.8	62.0	60.6	58.0	58.1	55.8	37.9
4000	70.1	67.5	71.1	67.5	65.8	63.1	60.7	56.3	53.1	48.6	49.5	52.1	56.4	56.8	55.4	52.1	52.8	49.6	30.4
5000	63.8	61.4	64.9	61.2	59.5	56.8	54.0	48.9	45.7	42.0	42.7	45.6	50.4	50.5	49.4	45.4	46.3	43.3	15.4
6300	58.7	54.3	57.8	54.1	52.6	49.9	46.3	41.8	38.5	35.1	35.0	38.4	43.5	43.6	42.9	38.6	39.5	36.3	5.5
8000	49.1	48.4	50.9	47.2	46.7	43.0	39.0	35.5	32.4	27.7	27.2	30.9	37.0	37.6	37.0	32.1	33.1	29.7	
10000	42.4	41.9	44.3	40.6	40.2	36.1	32.0	27.2	23.1	17.4	19.6	23.2	30.4	30.4	29.3	23.0	25.0	18.9	
12500	35.5	34.3	37.2	32.8	32.3	27.6	21.5	17.0	12.5	6.9	6.9	13.5	23.9	23.4	22.1	13.2	15.6	10.0	
16000	26.5	26.1	28.8	23.3	24.4	17.0	7.3	8.2	1.9			3.8	13.6	12.6	11.8	3.5	6.9	1.3	
20000	14.6	15.0	16.3	10.1	10.7	6.3						3.2	1.8						
25000	2.8	3.8	3.9																

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.7	94.3	97.4	93.8	93.0	90.7	87.8	82.4	79.9	76.1	76.8	79.2	82.4	83.1	81.7	80.4	78.5	77.0	62.7
250	94.5	92.0	95.1	91.5	90.7	88.4	85.6	81.2	77.7	73.9	74.6	77.0	80.2	80.8	78.5	76.3	74.8	60.5	
315	92.2	89.7	92.8	89.2	88.4	86.1	83.2	78.8	75.4	71.7	72.3	74.6	77.8	78.5	75.8	74.0	72.5	58.3	
400	89.7	87.3	90.4	86.8	86.0	83.7	80.8	76.4	73.0	69.3	70.0	72.2	75.4	76.1	73.4	71.7	70.2	56.0	
500	87.3	84.8	88.0	84.3	83.5	81.2	78.3	73.9	70.5	66.9	67.5	69.8	72.9	73.6	70.9	69.3	67.8	53.6	
630	84.7	82.2	85.4	81.8	80.9	78.6	75.7	71.3	68.1	64.5	65.0	67.2	70.3	71.0	68.3	66.8	65.3	51.1	
800	81.9	79.5	82.7	79.1	78.2	75.9	73.0	68.5	65.5	61.9	62.4	64.5	67.6	68.3	65.6	64.3	62.7	48.6	
1000	79.0	76.7	79.9	76.3	75.4	73.0	70.2	65.6	62.7	59.3	59.7	61.7	64.8	65.5	62.8	61.6	60.0	45.9	
1250	76.0	73.7	77.0	73.3	72.4	70.0	67.2	62.6	59.9	56.5	56.9	58.8	61.9	62.5	59.8	58.8	57.3	43.1	
1600	72.8	70.6	73.8	70.2	69.3	66.9	64.0	59.4	56.3	53.6	53.9	55.8	58.9	59.6	56.9	55.9	54.3	40.2	
2000	69.3	67.3	70.5	66.9	66.0	63.6	60.7	56.1	53.5	50.7	50.9	52.7	55.9	56.5	53.6	52.9	51.3	37.1	
2500	65.6	63.9	67.0	63.4	62.6	60.1	57.2	52.6	50.5	47.5	47.6	49.4	52.8	53.4	50.2	49.8	48.1	33.9	
3150	61.7	60.3	63.2	59.7	59.1	56.5	53.5	49.0	47.0	44.2	44.1	46.0	49.5	50.0	46.6	46.5	44.7	30.4	
4000	57.5	56.4	59.1	55.7	55.2	52.7	49.8	45.0	43.2	40.5	40.2	42.2	45.8	46.4	42.7	42.7	40.9	26.5	
5000	52.9	52.1	54.7	51.3	51.0	48.4	45.3	40.6	38.9	36.3	35.9	38.0	41.7	42.3	38.4	38.5	36.7	22.3	
6300	48.1	47.5	50.0	46.7	46.5	43.9	40.6	36.0	34.4	31.9	31.3	33.6	37.3	37.9	33.8	34.0	32.1	17.8	
8000	43.4	43.1	45.3	42.1	42.0	39.3	36.0	31.8	30.2	27.8	27.4	29.7	33.6	34.1	29.8	29.8	27.9	13.4	
10000	38.5	38.4	40.3	37.3	37.3	34.4	31.1	27.3	25.7	23.4	23.2	25.6	29.5	30.0	24.0	25.6	23.4	8.8	
12500	33.4	33.3	35.0	32.1	32.1	29.0	25.7	22.5	20.9	18.6	18.8	21.1	25.0	25.4	19.5	21.1	18.6	3.9	
16000	27.8	27.7	29.2	26.4	26.4	23.2	19.9	17.3	15.6	13.4	13.9	16.2	20.1	20.4	14.6	16.2	13.4		
20000	21.7	21.6	22.8	20.1	20.1	16.7	13.5	11.6	10.0	7.7	8.7	10.8	14.6	14.9	10.9	11.1	7.7		
25000	15.0	14.9	15.8	13.3	13.2	9.3	6.7	5.3	3.9	1.8	2.1	5.1	8.5	8.8	5.3	5.2	1.6		

IDENTIFICATION:  
 OMEGA 3.2  
 TEST 75-036-001  
 RUN 01  
 AIRCRAFT CODE 038  
 OPERATION CODE 01013  
 PROFILE VERSION A  
 13 APR 76  
 PAGE F1

METEOLOGY:  
 TEMP = 53 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB

DISTANCE (FEET)	TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	98.7	96.3	99.6	96.0	95.1	92.7	91.1	85.7	81.9	78.2	79.1	81.9	85.4	85.9	84.0	81.6	80.5	79.1	64.6
250	96.4	94.0	97.4	93.9	92.8	90.4	87.4	83.4	79.6	76.0	76.9	79.6	83.1	83.6	81.7	79.3	78.3	76.9	62.4
315	94.1	91.7	95.1	91.4	90.5	88.1	85.5	81.1	77.3	73.7	74.6	77.3	80.7	81.3	79.4	77.0	76.1	74.6	60.1
400	91.7	89.3	92.7	89.1	88.1	85.7	83.1	78.6	75.0	71.4	72.3	74.9	78.3	78.9	77.0	74.6	73.7	72.3	57.8
500	89.2	86.8	90.3	86.6	85.6	83.2	80.6	76.1	72.5	69.0	69.8	72.4	75.8	76.4	74.5	72.1	71.1	69.9	55.4
630	86.6	84.2	87.7	84.0	83.0	80.6	78.0	73.5	70.0	66.5	67.3	69.8	73.2	73.8	72.0	69.5	68.9	67.4	53.0
800	83.8	81.5	85.0	81.3	80.3	77.9	75.3	70.8	67.4	64.0	64.7	67.1	70.5	71.1	69.3	66.8	66.3	64.9	50.4
1000	81.0	78.7	82.2	78.5	77.5	75.0	72.4	67.9	64.7	61.3	62.0	64.3	67.7	68.3	66.6	64.0	63.6	62.2	47.7
1250	77.9	75.7	79.2	75.5	74.5	72.0	69.4	64.8	61.8	58.5	59.2	61.4	64.8	65.4	63.7	61.0	60.8	59.4	45.0
1600	74.7	72.6	76.1	72.4	71.4	68.9	66.3	61.6	58.9	55.7	56.2	58.4	61.9	62.4	60.7	58.0	57.9	56.5	42.0
2000	71.2	69.3	72.8	69.1	68.1	65.6	63.0	58.3	55.8	52.7	53.2	55.3	58.9	59.4	57.7	54.8	55.0	53.4	39.0
2500	67.6	65.9	69.2	65.6	64.7	62.2	59.5	54.9	52.5	49.5	49.9	52.0	55.7	56.2	54.5	51.4	51.8	50.2	35.7
3150	63.6	62.2	65.5	61.9	61.2	58.5	55.8	51.2	49.0	46.2	46.4	48.6	52.4	52.9	51.1	47.8	48.5	46.8	32.2
4000	59.0	57.9	61.0	57.5	56.9	54.3	51.4	46.8	44.8	42.1	42.0	44.3	48.2	48.6	47.0	43.7	44.4	42.6	28.0
5000	54.1	53.3	56.1	52.7	52.3	49.7	46.6	42.0	40.1	37.6	37.3	39.6	43.5	44.0	42.4	39.1	39.7	37.9	23.4
6300	48.8	48.3	50.9	47.6	47.3	44.7	41.5	36.9	35.2	32.7	32.3	34.6	38.5	39.1	37.6	34.2	34.8	33.0	18.5
8000	43.8	43.5	45.7	42.6	42.5	39.7	36.5	32.2	30.6	28.2	27.9	30.2	34.2	34.7	33.4	30.0	30.6	28.3	13.8
10000	38.5	38.4	40.3	37.3	37.3	34.4	31.1	27.3	25.7	23.4	23.2	25.6	29.5	30.0	29.0	25.6	26.0	23.4	8.8
12500	33.4	33.3	35.0	32.1	32.1	29.0	25.7	22.5	20.9	18.6	18.8	21.1	25.0	25.4	24.5	21.1	21.5	18.6	3.9
16000	27.8	27.7	29.2	26.4	26.4	23.2	19.9	17.3	15.6	13.4	13.9	16.2	20.1	20.4	19.5	16.2	16.5	13.4	
20000	21.7	21.6	22.8	20.1	20.1	16.7	13.5	11.6	10.0	7.7	8.7	10.8	14.6	14.9	14.1	10.9	11.1	7.7	
25000	15.0	14.9	15.8	13.3	13.2	9.8	6.7	5.3	3.9	1.8	3.1	5.1	8.5	8.8	8.2	5.3	5.2	1.6	

IDENTIFICATION:  
 OMEGA 8.2  
 TEST 75-03R-001  
 RUN 01  
 AIRCRAFT CODE 038  
 OPERATION CODE 01013  
 PROFILE VERSION A  
 13 APR 76  
 PAGE 01

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB



TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 938																			
F-16 AIRCRAFT ( ENGINE RUNUP, 60% RPM ) TEMP = 59 F ) OPERATION CODE 01019																			
ENG. F100-PW-100(2) ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ( REL HUMID = 70 % ) 13 APR 76																			
( ( DELTA N = 0.0 DB ) PAGE 02																			
BAND CENTER																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	72	74	74	75	77	78	78	76	78	79	79	80	84	89	94	97	96	90	70
63	76	76	76	77	79	79	80	79	80	80	80	83	86	91	96	100	98	91	71
80	77	78	78	79	79	80	79	80	80	81	83	85	89	94	99	102	99	92	72
100	78	79	80	80	80	81	81	79	81	82	84	85	90	95	101	105	102	92	72
125	80	79	81	79	81	81	81	81	82	82	84	87	90	94	100	105	102	91	71
160	82	81	83	81	81	82	83	83	83	84	85	88	90	93	96	103	100	88	68
200	83	83	84	82	83	82	83	84	84	84	86	89	92	96	96	101	99	84	64
250	83	82	84	83	83	83	83	82	83	84	87	89	91	95	96	97	95	79	59
315	82	82	84	83	83	82	82	82	83	83	86	89	91	93	95	92	91	73	53
400	83	83	84	84	84	83	82	82	83	83	86	88	91	92	93	90	87	69	49
500	83	84	84	84	84	83	81	81	82	82	84	86	89	90	90	88	84	66	46
630	82	83	84	84	84	83	81	81	82	81	83	86	88	89	87	86	81	64	44
800	81	83	83	83	83	82	81	80	82	80	82	84	85	86	84	83	78	64	44
1000	79	83	81	82	82	82	80	79	80	79	81	83	84	83	80	79	75	62	42
1250	78	83	80	82	81	82	80	78	79	78	79	82	82	81	77	76	73	63	43
1600	78	83	79	80	80	80	79	77	78	76	76	79	79	77	77	74	72	62	42
2000	80	82	79	79	80	80	79	77	76	75	75	76	77	75	77	73	72	60	40
2500	81	80	81	79	80	80	79	77	77	75	76	77	76	76	76	72	72	66	46
3150	80	79	81	80	80	79	78	77	76	75	76	76	76	76	76	72	71	61	41
4000	79	79	81	80	80	78	77	77	76	73	74	76	76	74	75	71	69	57	37
5000	79	80	81	79	80	77	76	76	76	73	74	75	75	74	74	70	69	56	36
6300	77	78	79	77	77	75	75	75	74	73	72	73	73	73	73	68	67	53	33
8000	71	72	72	71	71	71	71	70	69	69	69	70	70	71	72	67	65	51	31
10000	66	67	68	66	66	66	65	65	64	65	65	67	67	67	69	65	60	48	28
OVERALL	94	95	95	95	95	95	94	93	94	94	96	98	101	104	108	111	109	99	79

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	OPERATION: ENGINE RUNUP, 87% RPM																			
	ANGLE ENGINE																			
DISTANCE (FEET)	METEOROLOGY: TEMP = 59 F, BAR PRESS = 29.92 IN HG, REL HUMID = 70%, DELTA N = 3.0 DB																			
	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	107.7	108.1	108.9	108.0	108.2	107.6	106.8	105.0	105.9	104.8	106.3	107.8	109.9	111.6	112.8	114.5	112.0	100.4	79.1	
250	105.5	105.8	106.7	105.7	106.0	105.4	104.5	103.8	103.6	102.5	104.0	105.6	107.7	109.5	110.7	112.4	109.9	98.4	76.8	
315	103.2	103.5	104.3	103.3	103.7	103.1	102.2	101.4	101.3	100.2	101.8	103.4	105.5	107.3	108.6	110.3	107.8	96.2	74.4	
400	100.8	101.1	101.9	100.9	101.3	100.7	99.8	99.0	99.0	97.8	99.4	101.2	103.3	105.1	106.4	108.2	105.6	94.1	72.0	
500	98.4	98.7	99.4	98.4	98.7	98.2	97.4	96.5	96.5	95.4	96.9	98.9	101.0	102.8	104.2	105.9	103.3	91.9	69.4	
630	95.8	96.1	96.8	95.7	96.1	95.6	94.8	93.9	93.9	92.8	94.4	96.4	98.6	100.3	101.9	103.5	100.8	89.4	66.5	
800	93.0	93.3	93.9	92.9	93.3	92.9	92.1	91.1	91.2	90.0	91.9	93.9	96.1	97.7	99.3	101.0	98.1	86.8	63.6	
1000	90.1	90.5	91.0	90.0	90.4	90.0	89.2	88.1	88.3	87.2	89.2	91.2	93.5	95.1	96.5	98.2	95.4	83.8	60.2	
1250	87.0	87.5	87.8	86.8	87.3	86.9	86.0	84.8	85.2	84.3	86.4	88.4	90.7	92.3	93.5	95.2	92.3	80.3	56.5	
1600	83.6	84.2	84.5	83.5	84.0	83.6	82.7	81.5	82.0	81.3	83.4	85.5	87.8	89.4	90.5	91.8	88.9	76.5	52.3	
2000	80.0	80.8	80.8	80.1	80.4	80.0	79.1	78.2	78.8	78.1	80.3	82.3	84.7	86.2	87.3	88.1	85.0	72.3	47.0	
2500	75.9	77.0	77.0	76.6	76.6	76.0	75.2	74.3	75.0	74.2	76.4	78.5	80.9	82.3	83.3	83.7	80.5	67.6	40.7	
3150	71.5	72.9	72.9	72.6	72.6	72.0	70.9	70.1	70.9	70.1	72.1	74.3	76.7	78.0	78.8	78.5	75.5	62.2	32.4	
4000	66.9	68.3	68.4	68.2	68.3	67.5	66.4	65.6	66.4	65.5	67.6	69.9	72.2	73.4	73.8	73.5	70.3	55.8	17.5	
5000	61.9	63.4	63.6	63.3	63.4	62.6	61.6	60.6	61.6	60.5	62.6	65.1	67.3	69.5	68.8	68.5	64.9	49.1	2.5	
6300	56.6	58.3	58.3	58.1	58.2	57.5	56.4	55.3	56.3	55.3	57.4	59.9	62.2	63.4	63.7	63.3	59.6	41.9		
8000	52.2	53.7	53.8	53.7	53.7	52.9	51.7	50.8	51.8	50.9	53.3	55.7	58.3	59.6	59.8	59.7	55.8	36.9		
10000	47.3	48.7	48.9	48.7	48.7	47.8	46.3	45.7	46.3	45.8	48.6	51.1	54.0	55.4	55.7	55.8	51.6	30.3		
12500	43.3	43.1	43.2	42.9	42.7	41.9	40.4	39.8	41.1	40.2	43.3	46.0	49.3	50.9	51.2	51.4	46.7	22.9		
16000	34.7	36.2	36.9	36.8	36.4	35.5	33.8	32.8	34.5	33.6	37.0	40.1	43.8	45.7	45.8	46.2	41.4	14.5		
20000	27.4	28.6	29.5	29.2	28.8	27.6	25.5	25.2	27.0	25.8	29.9	33.0	37.3	39.5	39.5	40.0	35.9	6.1		
25000	16.1	17.7	18.8	18.4	17.7	16.2	12.4	12.4	15.3	12.9	18.6	23.2	29.2	31.7	33.4	34.6	29.3			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-16 AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. F103-PW-100(2)	DELTA N = 0.0 DB																			
GROUND RUNUP	AIRCRAFT CODE 038																			
	OPERATION CODE 01019																			
	PROFILE VERSION A																			
	13 APR 76																			
	PAGE F2																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 75-038-001																				
RUN 02																				
AIRCRAFT CODE 038																				
OPERATION CODE 01019																				
PROFILE VERSION A																				
13 APR 76																				
PAGE F2																				
ANGLE (DEGREES)																				
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	107.7	108.1	108.9	109.0	109.2	107.6	106.8	106.0	105.9	104.8	106.3	107.8	109.9	111.6	112.8	112.8	114.5	112.0	102.4	81.0
250	105.5	105.8	106.7	105.7	106.0	105.4	104.5	103.8	103.6	102.5	104.0	105.6	107.7	109.5	110.7	112.4	109.9	100.3	78.7	
315	103.2	103.5	104.3	103.3	103.7	103.1	102.2	101.4	101.3	100.2	101.8	103.4	105.5	107.3	108.6	110.3	107.8	98.1	76.3	
400	100.8	101.1	101.9	100.9	101.3	100.7	99.8	99.0	99.0	97.8	99.4	101.2	103.3	105.1	106.4	108.2	105.6	96.0	73.9	
500	98.4	98.7	99.4	98.4	98.7	98.2	97.4	96.5	96.5	95.4	96.9	98.9	101.0	102.8	104.2	105.9	103.3	93.7	71.3	
630	95.8	96.1	96.8	95.7	96.1	95.6	94.8	93.9	93.9	92.8	94.4	96.4	98.6	100.3	101.9	103.5	100.8	91.3	69.4	
800	93.0	93.3	93.9	92.9	93.3	92.9	92.1	91.1	91.2	90.0	91.9	93.3	95.1	97.7	99.3	101.0	98.1	88.7	65.5	
1000	90.1	90.5	91.0	90.0	90.4	90.0	89.2	88.1	88.3	87.2	89.2	91.2	93.5	95.1	96.5	98.2	95.4	85.7	62.1	
1250	87.0	87.5	87.8	86.8	87.3	86.9	86.0	84.8	85.2	84.3	86.4	88.4	90.7	92.3	93.5	95.2	92.3	82.2	58.4	
1600	83.6	84.2	84.5	83.5	84.0	83.6	82.7	81.5	82.0	81.3	83.4	85.5	87.8	89.4	90.5	91.8	88.9	78.4	54.2	
2000	80.0	80.8	80.8	80.1	80.4	80.0	79.1	78.2	78.8	78.1	80.3	82.3	84.7	86.2	87.3	88.1	85.0	74.2	49.9	
2500	75.9	77.0	77.0	76.6	76.6	76.0	75.2	74.3	75.0	74.2	76.4	78.5	80.9	82.3	83.3	83.7	80.5	69.5	42.7	
3150	71.5	72.9	72.9	72.6	72.8	72.0	70.9	70.1	70.9	70.1	72.1	74.3	76.7	78.0	78.8	78.5	75.5	64.1	34.3	
4000	66.9	68.3	68.4	68.2	68.3	67.5	66.4	65.6	66.4	65.5	67.6	69.9	72.2	73.4	73.8	73.5	70.3	57.3	19.0	
5000	61.9	63.4	63.6	63.3	63.4	62.6	61.6	60.6	61.6	60.5	62.6	65.1	67.3	68.5	68.8	68.5	64.9	50.3	3.7	
6300	56.6	58.3	58.3	58.1	58.2	57.5	56.4	55.3	56.3	55.3	57.4	59.9	62.2	63.4	63.7	63.3	59.6	42.7		
8000	52.2	53.7	53.8	53.7	53.7	52.9	51.7	50.8	51.8	50.9	53.3	55.7	58.3	59.6	59.8	59.7	55.8	37.3		
10000	47.3	49.7	48.9	48.7	48.7	47.8	46.3	45.7	46.8	45.8	48.6	51.1	54.0	55.4	55.7	55.8	51.6	30.3		
12500	41.3	43.1	43.2	42.9	42.7	41.9	40.4	39.8	41.1	40.2	43.3	46.0	49.3	50.9	51.2	51.4	46.7	22.9		
16000	34.7	36.2	36.9	36.8	36.4	35.5	33.8	32.8	34.5	33.8	37.0	40.1	43.8	45.7	45.8	46.2	41.4	14.5		
20000	27.4	28.6	29.5	29.2	28.8	27.6	25.5	25.2	27.0	25.8	29.9	33.0	37.3	39.5	40.0	40.6	35.9	5.1		
25000	16.1	17.7	18.8	18.4	17.7	16.2	12.4	12.4	15.3	12.9	18.6	23.2	29.2	31.7	33.4	34.6	29.3			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.7	95.1	94.9	94.5	94.6	94.0	93.0	91.9	92.4	91.2	92.9	95.0	96.9	98.1	96.4	99.4	95.9	83.9	63.9
250	91.5	92.9	92.7	92.3	92.5	91.9	90.8	89.7	90.2	89.1	90.8	92.9	94.8	96.0	96.4	97.4	94.9	81.9	61.9
315	89.3	90.7	90.5	90.1	90.2	89.7	88.6	87.5	88.0	86.9	88.7	90.8	92.7	93.9	94.3	95.4	92.8	79.8	59.8
400	87.0	88.5	88.2	87.9	88.0	87.4	86.4	85.3	85.8	84.7	86.5	88.6	90.6	91.8	92.2	93.3	90.7	77.7	57.7
500	84.6	86.2	85.0	85.6	85.7	85.1	84.1	83.0	83.6	82.5	84.3	86.4	89.4	89.7	90.0	91.0	88.5	75.5	55.5
630	82.2	83.8	83.4	83.2	83.3	82.8	81.7	80.6	81.3	80.2	82.0	84.2	86.2	87.4	87.8	88.7	86.1	73.1	53.1
800	79.8	81.4	81.0	80.8	80.9	80.4	79.3	78.2	78.9	77.9	79.7	81.9	84.0	85.1	85.4	86.2	83.5	70.6	50.6
1000	77.2	78.9	78.4	78.4	78.4	77.9	76.8	75.7	76.5	75.4	77.3	79.5	81.6	82.8	83.0	83.5	80.9	67.9	47.9
1250	74.6	76.3	75.8	75.8	75.9	75.3	74.2	73.1	73.9	72.9	74.8	77.0	79.2	80.2	80.4	80.7	78.0	64.9	44.9
1600	71.8	73.6	73.1	73.2	73.2	72.7	71.5	70.4	71.3	70.3	72.3	74.5	76.6	77.6	77.7	77.7	74.9	61.7	41.7
2000	69.0	70.9	70.3	70.5	70.4	69.9	68.7	67.7	68.6	67.6	69.6	71.8	74.0	74.9	74.8	74.5	71.6	58.1	38.1
2500	65.9	67.9	67.3	67.5	67.5	66.9	65.7	64.6	65.6	64.6	66.6	68.8	71.0	71.8	71.8	71.0	67.9	54.2	34.2
3150	62.6	64.6	64.0	64.3	64.2	63.6	62.4	61.3	62.4	61.3	63.3	65.5	67.7	68.4	67.8	67.1	63.8	49.9	29.9
4000	58.9	61.0	60.4	60.7	60.6	60.0	58.8	57.7	58.8	57.7	59.7	61.9	64.0	64.6	63.8	63.8	59.3	45.1	25.1
5000	54.7	57.0	56.3	56.7	56.6	56.0	54.7	53.6	54.8	53.6	55.6	57.8	59.8	60.4	59.4	54.7	50.4	40.6	20.6
6300	50.3	52.6	51.9	52.4	52.2	51.6	50.3	49.2	50.4	49.3	51.2	53.4	55.4	56.0	54.8	53.8	50.1	36.0	16.0
8000	46.3	48.5	48.0	48.4	48.4	47.5	46.2	45.3	46.5	45.4	47.4	49.6	51.7	52.4	51.4	50.5	46.9	32.8	12.8
10000	42.0	44.0	43.7	44.0	43.9	43.1	41.8	41.0	42.2	41.1	43.3	45.5	47.8	48.5	47.7	47.1	43.5	29.7	9.7
12500	37.4	39.1	39.1	39.3	39.1	38.3	37.0	36.3	37.5	36.5	38.7	41.0	43.4	44.3	43.7	43.4	40.0	26.7	6.7
16000	32.4	33.8	34.1	34.1	33.9	33.1	31.8	31.3	32.4	31.3	33.8	36.1	38.6	39.7	39.5	39.6	36.4	23.6	3.6
20000	26.8	28.0	28.5	28.4	28.3	27.4	26.1	25.7	26.8	26.0	28.4	30.7	33.4	34.7	34.9	35.7	32.7	20.6	.6
25000	20.8	21.6	22.4	22.1	22.0	21.1	20.0	19.7	20.7	20.1	22.6	24.9	27.7	29.3	30.1	31.8	28.9	17.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	93.7	95.1	94.9	94.5	94.6	94.0	93.0	91.9	92.4	91.2	92.9	95.0	96.3	98.1	98.4	95.4	96.9	85.8	65.8
250	91.5	92.9	92.7	92.3	92.5	91.9	90.8	89.7	90.2	89.1	90.8	92.9	94.8	96.0	96.4	97.4	94.9	83.8	63.8
315	89.3	90.7	90.4	90.1	90.2	89.7	88.6	87.5	88.0	86.9	88.7	90.8	92.7	93.9	94.3	95.4	92.8	81.8	61.8
400	87.0	88.5	88.1	87.9	88.0	87.4	86.4	85.3	85.8	84.7	86.5	88.6	90.6	91.8	92.2	93.3	90.7	79.7	59.7
500	84.6	86.2	85.7	85.6	85.7	85.1	84.1	83.0	83.6	82.5	84.3	86.4	88.4	89.7	90.0	91.0	88.5	77.4	57.4
630	82.2	83.8	83.4	83.2	83.3	82.8	81.7	80.6	81.3	80.2	82.0	84.2	86.2	87.4	87.8	88.7	86.1	75.0	55.0
800	79.8	81.4	81.0	80.8	80.9	80.4	79.3	78.2	78.9	77.9	79.7	81.9	84.0	85.1	85.4	86.2	83.5	72.5	52.5
1000	77.2	78.9	78.4	78.4	78.4	77.9	76.9	75.7	76.5	75.4	77.3	79.5	81.6	82.8	83.0	83.5	80.9	69.8	49.8
1250	74.6	76.3	75.8	75.8	75.9	75.1	74.2	73.1	73.9	72.9	74.8	77.0	79.2	80.2	80.4	80.7	78.0	66.8	46.8
1600	71.8	73.6	73.1	73.2	73.2	72.7	71.5	70.4	71.3	70.3	72.3	74.5	76.6	77.6	77.6	77.7	74.9	63.6	43.6
2000	69.0	70.9	70.3	70.5	70.4	69.9	68.7	67.7	68.6	67.6	69.6	71.8	74.0	74.9	74.8	74.5	71.6	60.0	40.0
2500	65.9	67.9	67.3	67.5	67.5	66.9	65.7	64.6	65.6	64.6	66.6	68.8	71.0	71.8	71.5	71.0	67.9	56.1	36.1
3150	62.6	64.6	64.0	64.3	64.2	63.6	62.4	61.3	62.4	61.3	63.3	65.5	67.7	68.4	67.8	67.1	63.8	51.8	31.8
4000	58.9	61.0	60.4	60.7	60.6	60.0	58.8	57.7	58.8	57.7	59.7	61.9	64.0	64.6	63.8	62.8	59.3	46.7	26.7
5000	54.7	57.0	56.3	56.7	56.6	56.0	54.7	53.6	54.8	53.6	55.6	57.8	59.8	60.4	59.4	58.4	54.7	41.7	21.7
6300	50.3	52.6	51.9	52.4	52.2	51.6	50.3	49.2	50.4	49.3	51.2	53.4	55.4	56.0	54.8	53.8	50.1	36.7	16.7
8000	46.3	48.5	48.0	48.4	48.2	47.5	46.2	45.3	46.5	45.4	47.4	49.6	51.7	52.4	51.4	50.5	46.9	33.2	13.2
10000	42.0	44.0	43.7	44.0	43.9	43.1	41.8	41.0	42.2	41.1	43.3	45.5	47.8	48.5	47.7	47.1	43.5	29.7	9.7
12500	37.4	39.1	39.1	39.3	39.1	38.3	37.0	36.3	37.5	36.5	38.7	41.0	43.4	44.3	43.7	43.4	40.0	26.7	6.7
15000	32.4	33.8	34.1	34.1	33.9	33.1	31.8	31.3	32.4	31.5	33.8	36.1	38.6	39.7	39.5	39.6	36.4	23.6	3.6
20000	26.8	28.0	28.5	28.4	28.3	27.4	26.1	25.7	26.8	26.0	28.4	30.7	33.4	34.7	34.9	35.7	32.7	20.6	.6
25000	20.8	21.6	22.4	22.1	22.0	21.1	20.0	19.7	20.7	20.1	22.6	24.9	27.7	29.3	30.1	31.8	28.9	17.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-16 AIRCRAFT  
 ENG. F10J-PW-100(2)  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA A-2  
 TEST 75-038-001  
 RUN 02  
 AIRCRAFT CODE 038  
 OPERATION CODE 01019  
 PROFILE VERSION A  
 13 APR 76  
 PAGE J2  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DR  
 P=PNLT A=AL T=ALT

ANGLE	20	30	40	50	60	70	80	90	100	110	120
0								X			
10								X			
20								X			
30								Y			
40								X			
50								X			
60								X			
70								X			
80								X			
90								X			
100								X			
110								X			
120								X			
130								X			
140								X			
150								X			
160								X			
170								X			
>160								X			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

BAND CENTER FREQ (HZ)	NORMALIZED SOUND PRESSURE LEVEL (DB)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	81	82	83	83	84	85	85	87	87	89	89	92	98	102	105	109	107	97	87
63	85	85	85	85	87	87	88	89	89	91	93	95	101	107	111	112	109	99	89
80	85	86	86	87	88	88	89	90	91	93	97	100	106	114	119	117	113	103	93
100	87	88	88	88	89	91	92	94	93	95	97	101	108	113	120	117	115	105	95
125	89	89	89	89	91	92	93	95	95	97	100	105	113	117	117	120	117	107	97
160	92	92	93	92	92	92	93	95	95	97	100	105	114	120	118	119	118	108	98
200	93	94	94	93	93	93	93	95	96	98	101	105	114	120	118	119	118	108	98
250	92	94	94	94	94	94	94	95	95	98	101	105	114	120	118	119	118	108	98
315	90	94	95	94	92	92	93	95	95	98	101	105	114	120	118	119	118	108	98
400	94	94	95	95	94	94	94	95	96	99	102	106	113	117	118	116	114	104	94
500	99	99	101	98	96	94	94	95	97	98	101	105	112	116	116	115	110	100	90
630	97	101	102	100	98	96	94	94	94	97	101	105	111	114	115	112	108	98	88
800	97	100	102	102	99	99	96	95	97	97	100	104	110	113	112	109	105	95	85
1000	94	95	96	100	97	99	98	96	97	97	100	104	108	111	109	107	102	92	82
1250	92	93	95	97	95	95	97	95	95	96	99	103	107	110	107	103	101	91	81
1600	89	91	93	94	93	93	94	92	92	97	99	101	104	108	105	101	99	89	79
2000	86	88	90	91	91	92	93	91	95	97	98	99	102	106	103	100	96	86	76
2500	83	87	89	89	90	91	93	91	94	97	97	100	101	106	103	101	96	86	76
3150	82	84	87	87	89	89	91	91	93	97	96	100	101	105	103	99	94	84	74
4000	79	83	84	84	86	87	89	89	92	95	95	98	100	103	101	97	91	81	71
5000	77	79	81	81	83	84	87	87	90	93	93	96	98	102	100	96	89	79	69
6300	74	77	79	79	81	82	86	85	88	91	91	93	96	100	98	94	86	76	66
8000	70	72	74	75	76	77	81	81	85	86	88	91	95	100	96	94	84	74	64
10000	65	67	69	70	71	73	77	76	80	82	83	86	92	98	94	91	79	69	59
OVERALL	106	107	109	108	106	107	106	106	108	110	112	116	122	127	128	128	125	115	105

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNDB)										ANGLE (DEGREES)										IDENTIFICATIONS
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	115.7	117.3	118.8	116.7	117.3	118.2	119.5	118.7	121.5	123.7	124.8	128.2	132.3	136.9	136.8	135.0	132.0	122.0	112.0	( ) OMEGA 8.2 ( ) TEST 75-038-001 ( ) RUN 03 ( ) AIRCRAFT CODE 038 ( ) OPERATION CODE 01006 ( ) PROFILE VERSION A ( ) 13 APR 76 ( ) PAGE 03	
250	113.6	115.2	116.7	115.7	116.0	116.0	117.3	116.5	119.2	121.5	122.6	125.9	130.2	134.9	134.7	132.9	129.9	119.9	109.9	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
315	111.4	113.0	114.5	113.4	113.9	115.1	114.2	117.0	119.2	120.3	123.7	128.0	132.6	132.6	132.5	130.8	127.8	117.8	107.8	( ) AIRCRAFT CODE 038 ( ) OPERATION CODE 01006 ( ) PROFILE VERSION A ( ) 13 APR 76 ( ) PAGE 03	
400	109.2	110.8	112.3	112.1	111.1	111.5	112.7	111.9	114.6	116.9	119.0	121.3	125.8	130.4	130.4	128.6	125.7	115.7	105.6	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
500	107.0	108.5	110.0	109.8	108.7	109.1	110.3	109.5	112.2	114.3	115.6	118.9	123.5	128.1	128.1	126.3	123.4	113.4	103.3	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
630	104.6	106.2	107.7	107.5	106.3	106.6	107.8	107.0	109.7	111.7	113.0	116.3	121.1	125.6	125.6	123.8	121.0	111.0	100.8	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
800	102.2	103.7	105.3	105.0	103.8	104.1	105.1	104.3	107.0	109.0	110.4	113.6	118.7	122.9	123.4	121.4	118.4	108.4	98.2	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
1000	99.7	101.2	102.7	102.5	101.2	101.4	102.3	101.5	104.2	106.2	107.6	110.7	116.1	120.3	120.8	118.9	115.8	105.8	95.5	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
1250	97.1	98.6	100.1	99.8	98.4	98.7	99.2	98.4	101.1	103.1	104.5	107.7	113.4	117.5	118.1	116.2	113.1	103.0	92.7	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
1600	94.3	95.8	97.3	96.9	95.5	95.7	95.9	95.1	97.9	99.8	101.3	104.7	110.5	114.7	115.2	113.4	110.3	100.1	89.9	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
2000	91.4	92.8	94.3	94.0	92.4	92.6	92.5	91.8	94.6	96.2	97.9	101.6	107.5	111.7	112.2	110.4	107.3	97.1	86.8	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
2500	88.2	89.6	91.2	90.7	89.1	89.3	89.0	88.2	90.9	92.2	94.1	98.0	103.8	108.0	108.5	106.6	103.5	93.3	82.9	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
3150	84.5	86.2	87.7	87.2	85.5	85.7	85.1	84.3	86.9	87.9	90.3	94.0	99.6	104.1	104.3	102.4	99.3	89.0	78.6	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
4000	80.3	82.2	83.7	83.4	81.5	81.7	80.9	80.1	82.5	83.3	85.0	89.7	95.3	99.7	99.5	98.0	94.4	84.1	73.7	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
5000	75.8	77.7	79.3	78.1	77.2	77.3	76.3	75.5	77.7	78.4	81.2	85.0	90.6	95.0	94.8	93.2	89.5	79.1	68.7	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
6300	70.9	72.9	74.6	74.5	72.4	72.5	71.5	70.6	72.7	73.2	76.2	80.0	85.7	90.1	89.3	88.4	84.6	74.2	63.6	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
8000	67.1	68.8	70.4	70.2	68.0	68.2	66.8	66.1	68.2	68.9	72.0	75.9	81.9	86.3	86.3	84.8	81.0	70.6	59.8	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
10000	62.9	64.5	66.0	65.5	63.2	63.4	61.9	61.3	63.5	64.4	67.4	71.5	77.8	82.3	82.3	80.9	77.1	66.6	55.6	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
12500	58.3	59.5	61.1	60.2	58.0	57.9	56.4	56.4	58.6	59.5	62.5	66.9	73.3	77.9	78.1	76.8	73.0	62.3	51.2	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
16000	53.2	54.0	55.6	54.4	52.2	51.6	50.3	50.9	53.2	54.1	57.3	61.9	68.5	73.2	73.5	72.3	68.5	57.6	45.9	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
20000	47.3	47.9	49.8	48.1	45.6	44.4	43.6	44.7	47.0	48.0	51.4	56.2	63.1	67.9	68.5	67.3	63.6	52.4	39.6	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	
25000	39.9	40.7	42.7	39.9	37.6	36.0	35.6	37.2	39.4	40.8	44.5	49.8	57.1	62.1	63.0	61.8	58.3	46.4	33.1	( ) METEOROLOGY ( ) TEMP = 59 F ( ) BAR PRESS = 29.92 IN HG ( ) REL HUMID = 70 % ( ) DELTA N = 0.0 08	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-16 AIRCRAFT	HAP PRESS = 29.92 IN HG																		
ENG. F100-PM-100(12)	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 0.0 DR																		
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 75-038-001																			
PUN 03																			
AIRCRAFT CODE 038																			
OPERATION CODE 01006																			
PROFILE VERSION A																			
13 APR 76																			
PAGE E3																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	117.0	117.3	118.8	119.7	117.9	118.2	119.5	118.7	121.2	123.7	124.8	128.2	132.3	137.2	136.8	135.0	132.0	122.0	112.0
250	114.9	115.2	116.7	116.5	115.7	115.0	117.3	116.5	119.2	121.5	122.6	125.9	130.2	135.3	134.7	132.9	129.9	119.9	109.9
315	112.7	113.0	114.5	114.4	113.4	113.8	115.1	114.2	117.0	119.2	120.3	123.7	128.0	132.6	132.6	130.8	127.8	117.8	107.8
400	110.5	110.8	112.3	112.1	111.1	111.5	112.7	111.9	114.8	116.8	118.0	121.3	125.8	130.9	130.4	128.6	125.7	115.7	105.6
500	108.3	108.5	110.0	109.8	108.7	109.1	110.3	109.5	112.2	114.3	115.6	118.9	123.5	128.6	128.1	126.3	123.4	113.4	103.3
630	105.9	106.2	107.7	107.5	106.3	106.6	107.8	107.0	109.7	111.7	113.0	116.3	121.1	126.1	125.8	123.8	121.0	111.0	100.8
800	103.5	103.7	105.3	105.0	103.8	104.1	105.1	104.3	107.0	109.0	110.4	113.6	118.7	123.5	123.4	121.4	118.4	108.2	98.2
1000	101.0	101.2	102.7	102.5	101.2	101.4	102.3	101.5	104.2	106.2	107.6	110.7	116.1	120.8	120.8	118.9	115.8	105.8	95.5
1250	98.4	98.6	100.1	99.8	98.4	98.7	99.2	98.4	101.1	103.1	104.5	107.7	113.4	118.1	118.1	116.2	113.1	103.0	92.7
1600	95.6	95.8	97.3	96.9	95.5	95.7	95.9	95.1	97.9	99.8	101.3	104.7	110.5	115.2	115.2	113.4	110.3	100.1	89.9
2000	92.7	92.8	94.3	94.0	92.4	92.6	92.5	91.8	94.6	96.2	97.9	101.5	107.5	112.2	112.2	110.4	107.3	97.1	86.8
2500	89.6	89.6	91.2	90.7	89.1	89.3	89.0	88.2	90.9	92.2	94.1	98.0	103.8	108.6	108.5	106.6	103.5	93.3	82.9
3150	85.8	86.2	87.7	87.2	85.5	85.7	85.1	84.3	86.9	87.9	90.3	94.0	99.6	104.6	104.3	102.4	99.3	89.0	78.6
4000	81.4	82.2	83.7	83.4	81.5	81.7	80.9	80.1	82.5	83.3	86.0	89.7	95.3	100.1	99.6	98.0	94.4	84.1	73.7
5000	76.6	77.7	79.3	79.1	77.2	77.3	76.3	75.5	77.7	78.4	81.2	85.0	90.6	95.3	94.8	93.2	89.5	79.1	68.7
6300	71.5	72.9	74.6	74.5	72.4	72.5	71.5	70.6	72.7	73.2	76.2	80.0	85.7	90.3	89.9	88.4	84.6	74.2	63.6
8000	67.4	68.8	70.4	70.2	68.0	68.2	66.8	66.1	68.2	68.9	72.0	75.8	81.9	86.4	86.3	84.8	81.0	70.6	59.8
10000	62.9	64.5	66.0	65.5	63.2	63.4	61.9	61.3	63.5	64.4	67.4	71.5	77.8	82.3	82.3	80.9	77.1	66.6	55.6
12500	58.3	59.5	61.1	60.2	58.0	57.9	56.4	56.4	58.6	59.5	62.5	66.9	73.3	77.9	78.1	76.8	73.0	62.3	51.2
16000	53.2	54.0	55.6	54.4	52.2	51.8	50.3	50.9	53.2	54.1	57.3	61.8	68.5	73.2	73.5	72.3	68.5	57.6	45.9
20000	47.3	47.9	49.6	48.1	45.6	44.4	43.6	44.7	47.0	48.0	51.4	56.2	63.1	67.9	68.5	67.3	63.6	52.4	39.6
25000	39.9	40.7	42.7	39.9	37.6	36.0	35.6	37.2	39.4	40.8	44.5	49.8	57.1	62.1	63.1	61.8	58.3	46.4	33.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (D9A)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT  
ENG. F100-PH-100(2)  
GROUND RUNUP

OPERATION: INTERMEDIATE POWER (MIL)  
90% RPM  
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
PAR PRESS = 29.92 IN Hg  
REL HUMID = 70 %  
DELTA N = 9.0 DB

IDENTIFICATIONS: OMEGA 8.2  
TEST 75-038-001  
RUN 03  
AIRCRAFT CODE 038  
OPERATION CODE 01006  
PROFILE VERSION A  
13 APR 76  
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.1	100.9	103.7	106.8	107.0	107.3	107.2	106.1	108.7	109.8	111.7	115.1	120.0	124.1	123.6	121.7	118.8	108.8	98.8
250	103.0	104.9	106.6	106.7	104.9	105.1	104.0	106.0	107.6	109.5	112.9	117.9	122.1	121.5	119.6	116.7	106.7	96.7	94.7
315	100.9	102.7	104.6	104.6	102.8	103.0	101.8	104.4	105.4	107.4	110.8	115.8	119.9	119.5	117.6	114.7	104.7	94.7	94.7
400	99.8	103.6	102.4	102.5	100.7	100.9	100.7	99.6	102.2	103.1	105.2	108.6	113.7	117.8	117.3	115.5	112.6	102.6	92.6
500	96.6	99.4	100.3	100.0	98.5	98.7	98.4	97.4	99.9	100.8	102.5	106.4	111.5	115.6	115.2	113.3	110.4	100.4	90.4
530	94.5	96.3	98.1	98.2	96.2	96.4	96.1	95.1	97.6	98.4	100.6	104.1	109.3	113.4	113.0	111.1	108.2	98.2	88.2
900	92.2	94.0	95.9	95.9	93.9	94.1	93.8	92.8	95.2	96.0	98.2	101.7	107.0	111.1	110.7	108.8	105.9	95.9	85.9
1000	90.0	91.8	93.6	93.6	91.8	91.7	91.4	90.3	92.8	93.5	95.8	99.3	104.6	108.7	108.4	106.4	103.5	93.5	83.5
1250	87.6	89.4	91.3	91.2	89.2	89.3	88.8	87.8	90.2	90.8	93.2	96.8	102.2	106.2	105.9	103.9	100.9	90.9	80.9
1600	85.2	87.0	88.8	88.8	86.7	86.8	86.2	85.2	87.6	88.1	90.6	94.2	99.7	103.7	103.4	101.3	98.2	88.2	78.2
2000	82.7	84.5	86.3	86.2	84.0	84.1	83.4	82.5	84.9	85.2	87.9	91.6	97.0	101.0	100.7	98.6	95.5	85.5	75.5
2500	80.0	81.8	83.6	83.4	81.2	81.3	80.5	79.5	81.8	82.1	84.9	88.6	94.1	98.0	97.7	95.6	92.2	82.2	72.2
3150	77.0	78.8	80.6	80.5	78.2	78.2	77.3	76.3	78.6	78.8	81.6	85.4	90.8	94.7	94.3	92.1	88.6	78.6	68.6
4000	75.6	75.0	77.3	77.2	74.8	74.9	73.8	72.8	75.1	75.1	78.0	81.3	87.2	91.1	90.5	88.3	84.6	74.6	64.6
5000	69.6	71.5	73.4	73.3	70.9	71.0	69.4	68.9	71.0	70.9	74.0	77.8	83.1	86.9	86.3	84.0	80.2	70.2	60.2
6300	65.4	67.3	69.1	69.1	66.7	66.8	65.7	64.6	66.7	66.5	69.6	73.4	78.8	82.6	81.9	79.6	75.7	65.7	55.7
8000	61.6	63.5	65.3	65.1	62.6	62.7	61.4	60.4	62.4	62.4	65.5	69.5	75.0	78.8	78.2	76.1	72.2	62.2	52.2
10000	57.4	59.3	61.1	60.7	58.2	58.1	56.7	55.9	57.9	57.9	61.1	65.1	70.8	74.7	74.3	72.2	68.4	58.4	48.4
12500	52.9	54.7	56.4	55.8	53.3	53.0	51.5	50.9	52.9	52.9	56.3	60.4	66.3	70.2	70.0	68.0	64.3	54.3	44.3
16000	47.8	49.5	51.1	50.2	47.8	47.3	45.8	45.5	47.5	47.9	51.1	55.3	61.3	65.3	65.3	63.5	59.9	49.9	39.9
20000	42.1	43.7	45.3	44.1	41.7	40.9	39.5	39.6	41.5	42.2	45.4	49.6	55.8	60.0	60.1	59.5	55.1	45.1	35.1
25000	35.7	37.1	38.7	37.1	34.9	33.9	32.8	33.3	35.1	36.1	39.1	43.4	49.9	54.2	54.6	53.1	49.9	39.9	29.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 TONE-CORRECTED, A-WINGED OVER-ALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	106.4	106.9	106.7	103.8	107.0	107.3	107.2	106.1	108.7	109.9	111.7	115.1	120.0	124.7	123.6	121.7	118.8	108.8	98.8
250	104.3	104.8	106.6	106.7	104.9	105.1	105.1	104.0	106.0	107.6	109.5	112.9	117.9	122.6	121.5	119.6	116.7	106.7	95.7
315	102.2	102.7	104.6	104.6	102.8	103.0	102.9	101.8	104.4	105.4	107.4	110.8	115.8	120.5	119.5	117.6	114.7	104.7	94.7
400	100.1	100.6	102.4	102.5	100.7	100.9	100.7	99.6	102.2	103.1	105.2	108.6	113.7	118.3	117.3	115.5	112.6	102.6	92.6
500	98.0	98.4	100.3	100.3	98.5	98.7	98.4	97.4	99.9	100.8	102.9	106.4	111.5	116.2	115.2	113.3	110.4	100.4	90.4
630	95.8	96.3	98.1	98.2	96.2	96.4	96.1	95.1	97.8	98.4	100.6	104.1	109.3	113.9	113.0	111.1	108.2	98.2	88.2
800	91.6	92.0	93.9	93.9	91.9	92.1	91.8	90.8	93.5	94.2	96.0	98.2	101.7	107.0	111.5	110.7	108.8	105.9	85.9
1000	91.3	91.8	93.6	93.6	91.6	91.7	91.4	90.3	92.8	93.5	95.8	98.3	101.6	109.2	108.4	105.4	103.5	93.5	83.5
1250	89.0	89.4	91.3	91.2	89.2	89.3	88.8	87.8	90.2	90.8	93.3	95.9	102.2	109.8	105.9	103.9	100.9	90.9	80.9
1600	86.6	87.0	88.8	88.8	86.7	86.9	86.2	85.2	87.6	88.1	90.6	94.2	99.7	104.2	103.4	101.3	98.2	88.2	78.2
2000	84.1	84.5	86.3	86.2	84.0	84.1	83.4	82.5	84.8	85.2	87.9	91.6	97.0	101.5	100.7	98.6	95.5	85.5	75.5
2500	81.4	81.8	83.6	83.4	81.2	81.3	80.5	79.5	81.8	82.1	84.9	88.6	94.1	98.5	97.7	95.6	92.2	82.2	72.2
3150	78.3	78.8	80.5	80.5	78.2	78.2	77.3	76.3	78.6	78.8	81.6	85.4	90.8	95.2	94.3	92.1	89.6	78.6	68.6
4000	74.6	75.5	77.3	77.2	74.0	74.9	73.8	72.8	75.0	75.1	78.0	81.8	87.2	91.5	90.5	88.3	84.6	74.6	64.6
5000	70.4	71.5	73.4	73.3	70.9	71.0	69.9	68.9	71.0	70.9	74.0	77.9	83.1	87.3	86.3	84.0	80.2	70.2	60.2
6300	65.9	67.3	69.1	69.1	66.7	66.8	65.7	64.6	66.7	66.5	69.6	73.4	78.8	82.8	81.9	79.6	75.7	65.7	55.7
8000	61.9	63.5	65.3	65.1	62.6	62.7	61.4	60.4	62.4	62.4	65.5	69.5	75.0	78.9	78.2	76.1	72.2	62.2	52.2
10000	57.4	59.3	61.1	60.7	58.2	58.1	56.7	55.9	57.9	57.9	61.1	65.1	70.8	74.7	74.3	72.2	69.4	58.4	48.4
12500	52.9	54.7	56.4	55.8	53.3	53.0	51.5	50.9	52.9	53.1	56.3	60.4	66.3	70.2	70.0	68.0	64.3	54.3	44.3
16000	47.8	49.5	51.1	50.2	47.8	47.3	45.8	45.5	47.5	47.9	51.1	55.3	61.3	65.3	65.3	63.5	59.9	49.9	39.9
20000	42.1	43.7	45.3	44.1	41.7	40.9	39.5	39.6	41.5	42.2	45.4	49.6	55.8	60.0	60.1	58.5	55.1	45.1	35.1
25000	35.7	37.1	38.7	37.1	34.9	33.9	32.8	33.3	35.1	35.1	39.1	43.4	49.9	54.2	54.6	53.1	49.9	39.9	29.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 IDENTIFICATION: OMEGA 8.2  
 TEST 75-038-001  
 RUN 03  
 AIRCRAFT CODE 038  
 OPERATION CODE 01006  
 PROFILE VERSION A  
 13 APR 76  
 PAGE JJ3  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 0.0 DB

ANGLE	OPERATION		METEOROLOGY		INTERMEDIATE POWER (MIL)		SINGLE ENGINE	
	P	PNLT	A	ALT	P	PNLT	A	ALT
0								
15								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								
>170								
>180								

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 038																			
F-16 AIRCRAFT ) TEMP = 59 F ) OPERATION CODE 01001																			
ENG. F100-PW-100(2) ( FULL AUGMENTATION, A/R ) BAP PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( 89% RPM ( SINGLE ENGINE ) REL HUMID = 70 % ) 13 APR 76																			
( DELTA N = 0.0 03 ) PAGE C4																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	96	95	96	96	96	97	97	99	99	99	100	104	111	116	118	114	109	99	89
63	96	96	98	99	99	99	99	100	101	103	103	108	115	120	119	115	111	101	91
80	97	99	99	99	99	99	100	102	102	103	107	113	120	124	121	117	110	100	90
100	99	99	100	100	100	99	101	103	104	105	109	115	123	125	121	118	111	101	91
125	100	101	101	100	101	100	102	103	105	106	109	117	124	126	122	118	112	102	92
160	101	101	103	102	102	102	103	105	105	106	109	115	124	124	122	118	111	101	91
200	102	103	104	102	103	102	103	105	105	108	112	118	124	125	122	119	111	101	91
250	101	102	102	102	103	103	104	105	106	108	113	121	125	124	121	118	110	100	90
315	98	101	102	102	103	103	102	105	106	109	113	120	125	123	120	117	108	98	88
400	98	102	103	103	103	103	103	105	107	108	113	119	124	122	119	115	106	96	86
500	98	101	102	102	103	102	102	104	107	108	113	118	122	120	118	113	103	93	83
630	98	101	104	103	102	102	102	104	106	107	113	117	121	119	115	110	102	92	82
800	97	101	103	102	102	101	101	104	106	105	112	116	120	117	113	108	100	90	80
1000	95	97	101	101	100	101	100	103	105	105	111	114	119	116	111	106	99	89	79
1250	93	96	99	100	99	100	100	102	104	105	109	113	118	115	109	104	100	90	80
1600	91	94	98	97	97	98	93	101	103	104	108	111	116	113	108	103	100	90	80
2000	90	92	96	96	97	97	98	100	102	104	107	110	114	111	107	102	98	88	78
2500	88	91	94	94	95	95	98	100	102	105	107	111	114	112	107	102	96	86	76
3150	85	89	93	92	94	95	96	99	101	104	107	110	114	111	106	100	93	83	73
4000	82	87	90	90	92	93	94	97	100	102	105	109	113	111	104	98	90	80	70
5000	79	84	87	87	89	90	91	94	98	101	104	108	113	111	104	96	88	78	68
6300	77	82	85	85	87	88	89	93	96	98	103	107	112	110	102	94	86	76	66
8000	72	78	80	80	82	84	85	89	93	97	102	107	113	110	102	94	83	73	63
10000	67	72	75	75	77	79	81	86	89	94	100	106	111	109	100	91	79	69	59
OVERALL	110	112	114	113	114	114	114	116	118	119	124	129	134	134	131	128	121	111	101

XXX< = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PN03)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	FULL AUGMENTATION, A/B																			
F-16 AIRCRAFT	89% RPM																			
ENG. F100-PW-100(2)	SINGLE ENGINE																			
GROUND RUNUP	DELTA N = 0.0 DB																			
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 75-038-C01																				
RUN 04																				
AIRCRAFT CODE 03A																				
OPERATION CODE 01001																				
PROFILE VERSION A																				
13 APR 76																				
PAGE 04																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	119.6	121.4	123.7	123.5	124.2	124.8	125.6	127.9	130.1	132.3	135.8	140.0	144.9	143.2	139.3	134.9	127.5	117.5	107.5	
250	116.7	119.3	121.5	121.3	122.0	122.6	123.4	125.7	127.9	130.0	133.6	137.7	142.6	141.0	137.2	132.8	125.4	115.4	105.4	
315	114.5	117.2	119.4	119.1	119.8	120.4	121.2	123.5	125.6	127.8	131.3	135.5	140.3	138.8	135.0	130.7	123.3	113.3	103.2	
400	112.4	115.0	117.2	116.8	117.5	118.1	118.9	121.2	123.3	125.4	128.9	133.2	138.0	136.6	132.8	128.5	121.1	111.1	101.0	
500	110.1	112.7	114.9	114.5	115.1	115.7	116.5	118.8	120.9	123.0	126.5	130.7	135.7	134.3	130.5	126.2	118.9	108.0	98.7	
630	107.6	110.4	112.5	112.2	112.7	113.2	114.0	116.3	118.4	120.5	123.9	128.3	133.2	131.9	128.1	123.9	116.4	106.4	96.2	
800	105.2	107.9	110.1	109.7	110.1	110.6	111.4	113.7	115.8	117.8	121.2	125.8	130.7	129.4	125.7	121.4	113.0	103.8	93.5	
1000	102.6	105.4	107.5	107.2	107.5	107.9	108.7	110.9	113.0	115.0	118.4	123.1	128.1	126.7	123.1	118.9	111.2	101.1	90.7	
1250	99.9	102.7	104.8	104.4	104.7	105.0	105.7	107.9	110.0	112.0	115.4	120.4	125.3	123.8	120.4	116.0	108.4	98.3	87.9	
1600	97.0	99.8	101.9	101.6	101.8	102.1	102.4	104.8	106.7	108.7	112.5	117.5	122.3	120.9	117.5	113.0	105.5	95.3	84.9	
2000	93.9	96.8	98.8	98.5	98.7	99.0	99.3	101.6	103.5	105.1	109.4	114.4	119.3	117.8	114.5	110.0	102.5	92.2	81.7	
2500	90.5	93.2	95.4	95.1	95.3	95.3	95.6	97.8	100.0	101.3	105.8	110.6	115.4	114.0	110.7	106.2	98.6	88.2	77.8	
3150	86.7	89.4	91.8	91.5	91.4	91.4	91.6	93.8	96.0	97.3	101.8	106.5	111.4	109.8	106.5	102.0	94.3	83.8	73.4	
4000	82.4	85.1	87.6	87.2	87.0	87.1	87.2	89.5	91.6	92.8	97.5	102.1	106.9	105.3	102.1	97.5	89.3	78.9	68.4	
5000	77.7	80.5	82.9	82.6	82.4	82.4	82.5	84.7	86.9	88.0	92.8	97.3	102.2	100.6	97.3	92.7	84.5	74.1	63.4	
6300	72.8	75.6	78.0	77.7	77.5	77.4	77.5	79.8	82.0	83.0	87.9	92.4	97.3	95.6	92.3	87.7	79.4	69.0	58.1	
8000	68.8	71.6	74.0	73.7	73.4	73.3	73.3	75.6	77.8	78.9	83.8	88.5	93.4	91.9	88.7	84.1	75.7	65.1	54.0	
10000	64.5	67.3	69.7	69.3	69.2	68.9	69.1	71.2	73.6	74.6	79.6	84.4	89.4	87.9	84.8	80.2	71.7	60.9	49.3	
12500	59.9	62.7	64.9	64.5	64.6	64.3	64.4	66.5	68.9	70.0	75.0	80.0	85.1	83.6	80.6	76.1	67.4	56.3	43.9	
16000	54.5	57.6	59.5	59.1	59.3	59.1	59.3	61.4	63.9	65.0	70.1	75.2	80.4	79.1	76.1	71.6	62.7	51.1	37.6	
20000	49.2	52.1	53.6	53.4	53.9	53.4	53.6	55.8	58.3	59.4	64.6	70.0	75.3	74.1	71.2	66.6	57.5	45.2	31.0	
25000	42.2	45.4	46.9	46.7	47.4	46.7	47.0	49.5	52.1	53.2	58.6	64.1	69.6	68.6	65.7	61.2	51.8	38.3	20.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-16 AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG. F100-PW-100(2)	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = 3.0 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 75-338-001																				
RUN 04																				
AIRCRAFT CODE 038																				
OPERATION CODE 01001																				
PROFILE VERSION A																				
13 APR 76																				
PAGE E4																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	118.6	121.4	123.7	123.5	124.2	124.8	125.6	127.9	130.1	132.3	135.8	140.0	144.9	143.2	139.3	134.9	127.5	117.5	107.5	
250	116.7	119.3	121.5	121.3	122.0	122.6	123.4	125.7	127.9	130.0	133.6	137.7	142.6	141.0	137.2	132.8	125.4	115.4	105.4	
315	114.5	117.2	119.4	119.1	119.8	120.4	121.2	123.5	125.6	127.8	131.3	135.5	140.3	138.8	135.0	130.7	123.3	113.3	103.2	
400	112.4	115.0	117.2	116.8	117.5	118.1	118.9	121.2	123.3	125.4	129.9	133.2	138.0	136.6	132.8	128.5	121.1	111.1	101.0	
500	110.1	112.7	114.9	114.5	115.1	115.7	116.5	118.8	120.9	123.0	126.5	130.7	135.7	134.3	130.5	126.2	118.9	108.8	98.7	
630	107.6	110.4	112.5	112.2	112.7	113.2	114.0	116.3	118.4	120.5	123.9	128.3	133.2	131.9	128.1	123.9	116.4	106.4	96.2	
800	105.2	107.9	110.1	109.7	110.1	110.6	111.4	113.7	115.8	117.8	121.2	125.8	130.7	129.4	125.7	121.4	113.8	103.8	93.5	
1000	102.6	105.4	107.5	107.2	107.5	107.9	108.7	110.9	113.0	115.0	118.4	123.1	128.1	126.7	123.1	118.9	111.2	101.1	90.7	
1250	99.9	102.7	104.9	104.4	104.7	105.0	105.7	107.9	110.0	112.0	115.4	120.4	125.3	123.8	120.4	116.0	108.4	98.3	87.9	
1600	97.0	99.8	101.9	101.6	101.8	102.1	102.4	104.8	106.7	108.7	112.5	117.5	122.3	120.9	117.5	113.0	105.5	95.3	84.9	
2000	93.9	96.8	98.8	98.5	99.7	99.0	99.3	101.6	103.5	105.1	109.4	114.4	119.3	117.8	114.5	110.0	102.5	92.2	81.7	
2500	90.5	93.2	95.4	95.1	95.3	95.3	95.6	97.8	100.0	101.3	105.8	110.6	115.4	114.0	110.7	106.2	98.6	88.2	77.8	
3150	86.7	89.4	91.3	91.5	91.4	91.4	91.8	93.8	96.0	97.3	101.8	106.5	111.4	109.8	106.5	102.0	94.3	83.8	73.4	
4000	82.4	85.1	87.6	87.2	87.0	87.1	87.2	89.5	91.6	92.8	97.5	102.1	106.9	105.3	102.1	97.5	89.3	78.9	68.4	
5000	77.7	80.5	82.9	82.6	82.4	82.4	82.5	84.7	86.9	88.0	92.8	97.3	102.2	100.6	97.3	92.7	84.5	74.1	63.4	
6300	72.6	75.6	78.0	77.7	77.5	77.4	77.5	79.8	82.0	83.0	87.9	92.4	97.3	95.6	92.3	87.7	79.4	69.0	58.1	
8000	68.8	71.6	74.0	73.7	73.4	73.3	73.3	75.6	77.8	78.9	83.8	88.5	93.4	91.9	88.7	84.1	75.7	65.1	54.0	
10000	64.5	67.3	69.7	69.3	69.2	68.9	69.1	71.2	73.6	74.6	79.6	84.4	89.4	87.9	84.8	80.2	71.7	60.9	49.3	
12500	59.9	62.7	64.9	64.5	64.6	64.3	64.4	66.5	68.9	70.0	75.1	80.0	85.1	83.6	80.6	76.1	67.4	56.3	43.9	
16000	54.8	57.6	59.5	59.1	59.5	59.1	59.3	61.4	63.9	65.0	70.1	75.2	80.4	79.1	76.1	71.6	62.7	51.1	37.6	
20000	49.2	52.1	53.6	53.4	53.9	53.4	53.6	55.8	58.3	59.4	64.6	70.0	75.3	74.1	71.2	66.6	57.5	45.2	31.0	
25000	42.2	45.4	46.9	46.7	47.4	46.7	47.0	49.5	52.0	53.2	58.6	64.1	69.6	68.6	65.7	61.2	51.8	38.3	20.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-16 AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. F100-PW-100(2)	DELTA N = 0.0 DB																			
GROUND RUNUP	SINGLE ENGINE																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 75-038-001																				
RUN 04																				
AIRCRAFT CODE 038																				
OPERATION CODE 01001																				
PROFILE VERSION A																				
13 APR 76																				
PAGE F4																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	106.8	109.5	112.1	114.8	117.5	120.2	122.9	125.6	128.3	131.0	133.7	136.4	139.1	141.8	144.5	147.2	149.9	152.6	155.3	158.0
250	104.7	107.4	110.1	112.8	115.5	118.2	120.9	123.6	126.3	129.0	131.7	134.4	137.1	139.8	142.5	145.2	147.9	150.6	153.3	156.0
315	102.6	105.3	108.0	110.7	113.4	116.1	118.8	121.5	124.2	126.9	129.6	132.3	135.0	137.7	140.4	143.1	145.8	148.5	151.2	153.9
400	100.5	103.2	105.9	108.6	111.3	114.0	116.7	119.4	122.1	124.8	127.5	130.2	132.9	135.6	138.3	141.0	143.7	146.4	149.1	151.8
500	98.3	101.0	103.7	106.4	109.1	111.8	114.5	117.2	119.9	122.6	125.3	128.0	130.7	133.4	136.1	138.8	141.5	144.2	146.9	149.6
630	96.1	98.8	101.5	104.2	106.9	109.6	112.3	115.0	117.7	120.4	123.1	125.8	128.5	131.2	133.9	136.6	139.3	142.0	144.7	147.4
800	93.8	96.5	99.2	101.9	104.6	107.3	110.0	112.7	115.4	118.1	120.8	123.5	126.2	128.9	131.6	134.3	137.0	139.7	142.4	145.1
1000	91.5	94.2	96.9	99.6	102.3	105.0	107.7	110.4	113.1	115.8	118.5	121.2	123.9	126.6	129.3	132.0	134.7	137.4	140.1	142.8
1250	89.0	91.7	94.4	97.1	99.8	102.5	105.2	107.9	110.6	113.3	116.0	118.7	121.4	124.1	126.8	129.5	132.2	134.9	137.6	140.3
1500	86.5	89.2	91.9	94.6	97.3	100.0	102.7	105.4	108.1	110.8	113.5	116.2	118.9	121.6	124.3	127.0	129.7	132.4	135.1	137.8
2000	83.0	85.7	88.4	91.1	93.8	96.5	99.2	101.9	104.6	107.3	110.0	112.7	115.4	118.1	120.8	123.5	126.2	128.9	131.6	134.3
2500	80.9	83.6	86.3	89.0	91.7	94.4	97.1	99.8	102.5	105.2	107.9	110.6	113.3	116.0	118.7	121.4	124.1	126.8	129.5	132.2
3150	77.8	80.5	83.2	85.9	88.6	91.3	94.0	96.7	99.4	102.1	104.8	107.5	110.2	112.9	115.6	118.3	121.0	123.7	126.4	129.1
4000	74.3	77.0	79.7	82.4	85.1	87.8	90.5	93.2	95.9	98.6	101.3	104.0	106.7	109.4	112.1	114.8	117.5	120.2	122.9	125.6
5000	70.2	72.9	75.6	78.3	81.0	83.7	86.4	89.1	91.8	94.5	97.2	99.9	102.6	105.3	108.0	110.7	113.4	116.1	118.8	121.5
6300	65.9	68.6	71.3	74.0	76.7	79.4	82.1	84.8	87.5	90.2	92.9	95.6	98.3	101.0	103.7	106.4	109.1	111.8	114.5	117.2
8000	62.1	64.8	67.5	70.2	72.9	75.6	78.3	81.0	83.7	86.4	89.1	91.8	94.5	97.2	99.9	102.6	105.3	108.0	110.7	113.4
10000	57.9	60.6	63.3	66.0	68.7	71.4	74.1	76.8	79.5	82.2	84.9	87.6	90.3	93.0	95.7	98.4	101.1	103.8	106.5	109.2
12500	53.3	56.0	58.7	61.4	64.1	66.8	69.5	72.2	74.9	77.6	80.3	83.0	85.7	88.4	91.1	93.8	96.5	99.2	101.9	104.6
16000	48.3	51.0	53.7	56.4	59.1	61.8	64.5	67.2	69.9	72.6	75.3	78.0	80.7	83.4	86.1	88.8	91.5	94.2	96.9	99.6
20000	42.7	45.4	48.1	50.8	53.5	56.2	58.9	61.6	64.3	67.0	69.7	72.4	75.1	77.8	80.5	83.2	85.9	88.6	91.3	94.0
25000	36.8	39.5	42.2	44.9	47.6	50.3	53.0	55.7	58.4	61.1	63.8	66.5	69.2	71.9	74.6	77.3	80.0	82.7	85.4	88.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-16 AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. F100-PW-100(2)	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 3.0 DR																		
	IDENTIFICATION:																		
	OMEGA 8.2																		
	TEST 75-038-001																		
	RUN 04																		
	AIRCRAFT CODE 039																		
	OPERATION CODE 01001																		
	PROFILE VERSION A																		
	13 APR 76																		
	PAGE 04																		
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	106.8	109.5	112.1	111.8	111.8	112.1	112.3	114.6	116.9	118.3	122.6	126.9	131.4	129.4	125.5	121.1	113.6	103.6	93.6
250	104.7	107.4	110.0	109.7	109.7	110.0	110.2	112.5	114.7	116.2	120.5	124.7	129.3	127.2	123.4	119.0	111.5	101.5	91.5
315	102.6	105.3	107.9	107.6	107.6	107.8	108.0	110.4	112.6	114.0	118.3	122.6	127.1	125.1	121.3	117.0	109.4	99.4	89.4
400	100.5	103.2	105.7	105.5	105.4	105.7	105.9	108.2	110.4	111.7	116.2	120.4	124.9	122.9	119.2	114.9	107.3	97.3	87.3
500	98.3	101.0	103.6	103.3	103.2	103.5	103.6	106.0	108.1	109.5	113.9	118.2	122.7	120.7	117.0	112.7	105.1	95.1	85.1
630	96.1	98.8	101.3	101.1	101.0	101.2	101.4	103.7	105.8	107.1	111.6	115.9	120.4	118.4	114.7	110.4	102.9	92.9	82.8
800	93.8	96.5	99.1	98.8	98.7	98.9	99.0	101.3	103.5	104.7	109.3	113.5	118.1	116.0	112.4	108.1	100.4	90.4	80.4
1000	91.5	94.2	96.7	96.5	96.4	96.5	96.6	98.9	101.1	102.3	106.9	111.1	115.7	113.6	110.0	105.7	99.0	89.0	79.0
1250	89.0	91.8	94.3	94.1	93.9	94.0	94.1	96.4	98.6	99.7	104.4	108.6	113.1	111.1	107.5	103.1	95.4	85.4	75.4
1600	86.5	89.3	91.8	91.6	91.4	91.5	91.5	93.8	96.0	97.0	101.8	106.0	110.5	108.4	104.9	100.4	92.7	82.7	72.7
2000	83.8	86.7	89.2	88.9	88.7	88.8	88.7	91.1	93.3	94.2	99.1	103.4	107.8	105.7	102.2	97.7	89.9	79.9	69.9
2500	80.9	83.8	86.3	86.1	85.8	85.8	85.8	88.1	90.3	91.1	96.2	100.4	104.8	102.6	99.1	94.5	86.7	76.7	66.7
3150	77.8	80.7	83.2	82.9	82.6	82.6	82.5	84.8	87.1	87.9	93.0	97.1	101.5	99.3	95.7	91.0	83.2	73.2	63.2
4000	74.3	77.1	79.7	79.4	79.1	79.0	78.9	81.2	83.5	84.1	89.4	93.4	97.8	95.6	91.9	87.1	79.3	69.3	59.3
5000	70.2	73.1	75.7	75.5	75.1	75.0	74.8	77.2	79.5	80.0	85.4	89.3	93.7	91.4	87.6	82.8	75.1	65.1	55.1
6300	65.9	68.8	71.4	71.2	70.8	70.7	70.4	72.8	75.2	75.6	81.1	84.9	89.3	87.0	83.2	78.4	70.6	60.6	50.6
8000	62.1	65.0	67.5	67.2	66.9	66.7	66.4	68.8	71.2	71.6	77.2	81.1	85.5	83.2	79.6	74.8	66.7	56.7	46.7
10000	57.9	60.8	63.2	62.9	62.6	62.3	62.1	64.5	66.9	67.3	72.9	76.9	81.3	79.1	75.6	70.9	62.6	52.6	42.6
12500	53.3	56.3	58.5	58.2	57.9	57.6	57.4	59.7	62.1	62.6	68.2	72.4	76.8	74.7	71.4	66.7	58.3	48.3	38.3
16000	48.3	51.2	53.3	53.0	52.8	52.5	52.2	54.6	56.9	57.6	63.1	67.4	71.9	69.9	66.7	62.2	53.6	43.6	33.6
20000	42.7	45.7	47.5	47.3	47.2	46.9	46.7	48.9	51.3	52.0	57.4	62.0	66.5	64.7	61.7	57.3	48.7	38.7	28.7
25000	36.8	39.6	41.3	41.0	41.1	40.7	40.6	42.8	45.1	46.0	51.2	56.1	60.7	59.2	56.3	52.1	43.7	33.7	23.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-16 AIRCRAFT  
 ENG. F100-PM-100(2)  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA 8.2  
 TEST 75-038-001  
 RUN 04  
 AIRCRAFT CODE 038  
 OPERATION: FULL AUGMENTATION, A/B  
 85% RPM  
 SINGLE ENGINE  
 METEOROLOGY: TEMPERATURE = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = 3.0 DB  
 AIRCRAFT CODE 038  
 OPERATION CODE 01001  
 PROFILE VERSION A  
 13 APR 76  
 PAGE J4

	50	60	70	80	90	100	110	120	130	140	150
C											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.





FREQUENCY	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB											MEAN	SD		
	40	50	60	70	80	90	100	110	120	130	140				
50	.	.	.	.	.	.	.	.	.	.	.	.	.	89.4	1.3
63	.	.	.	.	.	.	.	.	.	.	.	.	.	85.7	2.8
80	.	.	.	.	.	.	.	.	.	.	.	.	.	84.5	2.1
100	.	.	.	.	.	.	.	.	.	.	.	.	.	95.7	2.9
125	.	.	.	.	.	.	.	.	.	.	.	.	.	102.5	1.4
160	.	.	.	.	.	.	.	.	.	.	.	.	.	105.7	1.3
200	.	.	.	.	.	.	.	.	.	.	.	.	.	102.9	1.8
250	.	.	.	.	.	.	.	.	.	.	.	.	.	100.2	1.9
315	.	.	.	.	.	.	.	.	.	.	.	.	.	105.5	2.2
400	.	.	.	.	.	.	.	.	.	.	.	.	.	102.6	1.9
500	.	.	.	.	.	.	.	.	.	.	.	.	.	102.8	2.1
630	.	.	.	.	.	.	.	.	.	.	.	.	.	100.7	1.9
800	.	.	.	.	.	.	.	.	.	.	.	.	.	99.0	2.3
1000	.	.	.	.	.	.	.	.	.	.	.	.	.	98.1	2.6
1250	.	.	.	.	.	.	.	.	.	.	.	.	.	97.8	2.1
1600	.	.	.	.	.	.	.	.	.	.	.	.	.	97.3	2.4
2000	.	.	.	.	.	.	.	.	.	.	.	.	.	96.6	2.3
2500	.	.	.	.	.	.	.	.	.	.	.	.	.	95.1	2.7
3150	.	.	.	.	.	.	.	.	.	.	.	.	.	92.2	3.3
4000	.	.	.	.	.	.	.	.	.	.	.	.	.	89.1	3.2
5000	.	.	.	.	.	.	.	.	.	.	.	.	.	86.8	3.4
6300	.	.	.	.	.	.	.	.	.	.	.	.	.	84.2	4.6
8000	.	.	.	.	.	.	.	.	.	.	.	.	.	79.6	4.5
10000	.	.	.	.	.	.	.	.	.	.	.	.	.	72.4	5.6

F-104G AFTERBURNER POWER 100 % RPM

AIRSPEED = 240 KNOTS TEMP = 59 F PNLT = 121.8 PNDB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 121.1 PNDB  
 NO. OF RECORDS = 8 IDENT: 6.6-045-101-230176 ALT = 109.5 DBA  
 AL = 108.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		A/C CODE: 045																							
( AFTERBURNER POWER		TEMP = 59 F																							
( 100 % RPM		REL HUMID = 70 %																							
(		PROFILE VER: A																							
( AIRSPEED = 240 KNOTS		DELTA N = 0.0 DB																							
(		PAGE H1																							
SLANT		FREQUENCY BAND NUMBER																							
DISTANCE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
(FEET)																									
200	104	100	99	110	117	120	117	115	120	117	118	116	114	114	114	114	114	113	111	111	110	111	111	112	113
250	102	98	97	108	115	118	115	113	118	115	115	114	112	111	111	111	111	111	109	108	107	108	107	108	109
315	100	96	95	106	113	116	113	111	116	113	113	111	110	109	109	109	109	108	107	108	107	105	104	105	105
400	98	94	93	104	111	114	111	109	114	111	111	109	108	107	107	107	107	106	104	103	101	102	101	100	100
500	95	92	91	102	109	112	109	106	112	109	109	107	106	105	105	105	104	104	101	100	96	98	97	95	95
630	93	90	89	100	107	110	107	104	110	107	107	105	104	103	103	102	102	101	99	97	95	94	92	89	89
800	91	88	87	98	105	108	105	102	108	105	105	103	101	100	100	100	99	98	96	93	91	89	86	81	81
1000	89	86	84	96	103	106	103	100	106	103	103	101	99	98	98	97	97	95	92	89	87	84	80	72	72
1250	87	84	82	94	100	104	101	98	103	100	101	98	97	96	95	95	94	92	88	85	82	78	72	62	62
1600	85	82	80	92	98	102	99	96	101	98	98	96	94	93	92	92	90	88	84	80	76	71	62	49	49
2000	83	80	78	90	96	99	97	94	99	96	96	94	92	90	89	87	84	80	74	70	63	51	34	15	15
2500	81	78	76	87	94	97	94	92	97	94	93	91	89	87	86	85	83	80	74	67	62	53	38	15	15
3150	79	75	74	85	92	95	92	89	94	91	91	88	86	84	83	81	79	75	68	59	53	41	21	0	0
4000	77	73	72	83	90	93	90	87	92	88	88	85	83	81	79	77	74	69	60	49	42	26	0	0	0
5000	75	71	70	81	88	91	87	84	89	86	85	82	79	77	75	72	68	61	52	38	29	8	8	8	8
6300	73	69	68	79	85	88	85	82	87	83	82	79	75	73	70	66	61	53	41	24	13	13	13	13	13
8000	71	67	66	77	83	86	82	79	84	80	79	77	71	68	64	59	53	43	28	7	7	7	7	7	7
10000	69	65	63	74	81	83	80	76	81	76	75	71	66	62	58	51	43	31	13	13	13	13	13	13	13
12500	66	62	61	72	78	81	77	73	77	72	71	66	61	55	50	42	32	16	16	16	16	16	16	16	16
16000	64	60	58	69	75	78	74	70	73	68	66	60	54	48	40	30	18	18	18	18	18	18	18	18	18
20000	62	58	56	67	72	74	70	66	69	63	60	54	46	38	29	16	16	16	16	16	16	16	16	16	16
25000	59	55	53	64	69	71	66	62	64	58	53	46	37	27	16	16	16	16	16	16	16	16	16	16	16

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:	
(FEET)	(DBA)	(DBA)	(FNDB)	(PNDB)	(CB)	(DB)	(EPNDR)		
200	125.3	125.9	138.9	139.5	122.9	123.7	127.5	OMEGA 5.6	
250	123.0	123.7	136.6	137.3	121.6	122.5	126.2	A/C CODE: 045	
315	120.7	121.4	134.2	134.9	120.3	121.2	124.8	OPS CODE: 101	
400	118.4	119.1	131.8	132.5	119.0	119.9	123.4	PROFILE VER: A	
500	116.1	116.8	129.3	130.0	117.7	118.5	121.9	23 JAN 76	
630	113.7	114.4	126.7	127.4	116.3	117.2	120.3	PAGE 11	
800	111.3	112.0	123.9	124.6	114.9	115.8	118.6		
1000	108.9	109.5	121.1	121.8	113.5	114.3	116.7		
1250	106.3	107.0	118.3	119.0	111.9	112.8	114.9		
1600	103.8	104.5	115.5	116.2	110.4	111.2	113.2		
2000	101.1	101.8	112.7	113.4	108.7	109.6	111.3		
2500	98.4	99.1	109.8	110.5	107.0	107.8	109.4		
3150	95.6	96.2	106.8	107.5	105.2	106.0	107.4		
4000	92.6	93.2	103.7	104.3	103.3	103.9	105.2		
5000	89.6	90.0	100.6	101.0	101.2	101.7	102.8		
6300	86.5	86.7	97.3	97.5	99.1	99.4	100.4		
8000	83.2	83.3	93.8	94.0	96.8	96.9	97.8		
10000	79.7	79.7	90.2	90.2	94.3	94.3	95.0		
12500	76.0	76.0	86.4	86.4	91.6	91.6	92.2		
16000	72.1	72.1	82.5	82.5	88.8	88.8	89.3		
20000	68.0	68.0	78.4	78.4	85.6	85.6	86.2		
25000	63.6	63.6	73.9	73.9	82.2	82.2	82.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 (-----F-104G AFTERBURNER POWER-----A+-----*P-)
250 ( . 100 % RPM . . . . . A+ . . . . . X . . . . . )
315 ( . AIRSPEED = 240 KNOTS . . . . . . . . . . . )
    ( . TEMP = 59 F REL HUMID = 70 % . . . . . . . . . . . )
    ( . DELTA N = 0.0 DB . . . . . . . . . . . )
    ( . NO. OF RECORDS: 8 . . . . . . . . . . . )
    ( . IDENT: 6.6-045-101-23C176-A . . . . . . . . . . . )
500 ( . . . . . A+ . . . . . *P . . . . . )
S 630 ( . . . . . X . . . . . X . . . . . )
L 800 ( . . . . . . . . . . . A+ . . . . . *P . . . . . )
N 1000 ( . . . . . . . . . . . A+ . . . . . *P . . . . . )
D 1250 ( . . . . . . . . . . . A+ . . . . . *P . . . . . )
I 1600 ( . . . . . . . . . . . X . . . . . X . . . . . )
T 2000 ( . . . . . . . . . . . A+ . . . . . X . . . . . )
N 2500 ( . . . . . . . . . . . A+ . . . . . X . . . . . )
E 3150 ( . . . . . . . . . . . X . . . . . X . . . . . )
I 4000 ( . . . . . . . . . . . X . . . . . X . . . . . )
F 5000 ( . . . . . . . . . . . X . . . . . X . . . . . )
E 6300 ( . . . . . . . . . . . A+ . . . . . *P . . . . . )
T 8000 ( . . . . . . . . . . . X . . . . . X . . . . . )
10000 ( . . . . . . . . . . . X . . . . . X . . . . . )
12500 ( . . . . . . . . . . . X . . . . . X . . . . . )
16000 ( . . . . . . . . . . . X . . . . . X . . . . . )
20000 ( . . . . . . . . . . . X . . . . . X . . . . . )
25000 (-----X-----*P-----)
60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB

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200 (-----ST-E-----)
( F-104G AFTERBURNER POWER )
250 ( . 100 % RPM . . . . . X E . )
( AIRSPEED = 240 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST E . )
( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 9 . . . . . ST E . )
( IDENT: 6.6-045-101-230176-A )
500 ( . . . . . ST E . . . . . )
( . . . . . )
S 630 ( . . . . . ST E . )
L 800 ( . . . . . ST E . )
A 1000 ( . . . . . ST E . )
N 1250 ( . . . . . ST E . )
T 1500 ( . . . . . ST E . )
O 1750 ( . . . . . ST E . )
I 2000 ( . . . . . STE . . . . . )
S 2250 ( . . . . . STE . . . . . )
T 2500 ( . . . . . STE . . . . . )
A 2750 ( . . . . . STE . . . . . )
N 3000 ( . . . . . STE . . . . . )
C 3250 ( . . . . . STE . . . . . )
E 3500 ( . . . . . STE . . . . . )
I 3750 ( . . . . . STE . . . . . )
N 4000 ( . . . . . STE . . . . . )
F 4250 ( . . . . . STE . . . . . )
E 4500 ( . . . . . STE . . . . . )
E 4750 ( . . . . . XE . . . . . )
T 5000 ( . . . . . XE . . . . . )
10000 ( . . . . . XE . . . . . )
12500 ( . . . . . XE . . . . . )
15000 ( . . . . . XE . . . . . )
17500 ( . . . . . XE . . . . . )
20000 ( . . . . . XE . . . . . )
25000 (-----X E-----)

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NOISE LEVEL IN DB

50      60      70      80      90      100      110      120      130

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (OR)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
OPERATION:		A/C CODE: 045																							
AFTERBURNER POWER		OPS CODE: 101																							
100 % RPM		REL HUMID = 70 %																							
100 % RPM		PROFILE VER: A																							
AIRSPEED = 240 KNOTS		23 JAN 76																							
DELTA N = 0.0 08		PAGE L1																							
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	99	95	94	105	112	115	112	110	115	112	113	111	109	109	109	109	109	108	106	106	106	105	106	107	108
250	97	93	92	103	110	113	110	108	113	110	110	109	107	106	106	106	106	106	104	104	103	102	103	103	104
315	95	91	90	101	108	111	108	106	111	108	108	106	105	104	104	104	104	103	102	100	100	99	100	100	100
400	93	89	88	99	106	109	106	104	109	106	106	104	103	102	102	102	101	99	98	98	96	96	97	96	95
500	90	87	86	97	104	106	103	101	107	104	104	102	101	100	100	99	99	99	96	95	96	95	93	93	92
630	88	85	84	95	101	104	101	99	105	102	102	100	99	98	98	97	97	96	94	92	90	89	90	87	84
800	86	83	82	92	98	101	98	96	103	100	100	98	95	95	95	95	94	93	91	88	86	84	81	76	
1000	84	81	79	90	95	98	95	93	100	98	98	96	94	93	93	92	92	90	87	84	82	79	75	67	
1250	82	79	76	86	92	95	92	90	97	95	96	93	92	91	90	90	89	87	83	80	77	73	67	57	
1600	80	75	73	83	89	91	88	86	94	93	93	91	89	88	87	87	85	83	79	75	71	66	57	44	
2000	77	72	69	79	85	87	85	82	90	91	91	89	87	85	85	83	82	79	75	69	65	58	46	29	
2500	74	68	65	75	81	83	80	78	86	87	88	86	84	82	81	80	78	75	69	62	57	48	33	10	
3150	70	64	61	70	76	78	75	73	82	83	85	83	81	79	78	76	74	70	63	54	48	36	16		
4000	65	58	55	64	70	72	69	67	77	78	81	80	78	76	74	72	69	64	55	44	37	21			
5000	61	54	50	60	65	68	64	62	71	72	77	75	74	72	70	67	63	56	47	33	24	3			
6300	55	49	46	55	60	63	60	57	65	67	72	71	69	68	65	61	56	48	36	19	8				
8000	53	47	44	53	58	60	57	54	62	64	69	67	65	63	59	54	48	38	23	2					
10000	51	45	41	50	56	58	54	51	59	60	65	63	60	57	53	46	38	26	8						
12500	48	42	39	48	53	55	51	48	55	56	61	58	55	50	45	37	27	11							
16000	46	40	36	45	50	52	48	45	51	52	56	52	48	43	35	25	13								
20000	44	38	34	43	47	49	45	41	47	47	50	46	40	33	24	11									
25000	41	35	31	40	44	46	41	37	42	42	43	38	31	22	11										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-104G	120.3	121.1	133.9	134.7	117.9	118.9	122.6	OMEGA 6.6	
	118.0	118.9	131.6	132.4	115.6	117.6	121.4	A/C CODE: 045	
	115.7	116.6	129.2	130.1	115.3	116.3	120.0	OPS CODE: 101	
	113.4	114.3	126.8	127.6	114.0	115.0	118.6	PROFILE VER: A	
	111.1	111.9	124.2	125.1	112.7	113.7	117.0	23 JAN 76	
	109.7	109.5	121.5	122.4	111.3	112.3	115.3	PAGE M1	
	106.2	107.1	118.7	119.6	109.8	110.8	113.5		
	103.7	104.6	115.7	116.6	106.2	109.3	111.5		
	101.0	101.9	112.5	113.3	106.7	107.7	109.3		
	98.3	99.1	109.1	110.0	104.9	105.9	106.9		
	95.4	96.3	105.8	106.7	103.0	104.0	104.6		
	92.2	93.1	102.2	103.1	100.8	101.9	102.0		
	88.7	89.6	98.1	98.9	98.3	99.3	98.9		
	84.8	85.5	93.5	94.1	95.4	96.2	95.0		
	80.4	80.9	88.5	89.0	92.0	92.6	90.8		
	75.7	76.0	83.2	83.6	89.3	88.7	86.4		
	71.4	71.6	79.0	79.2	85.0	85.2	83.0		
	66.9	66.9	74.5	74.5	81.5	81.5	79.3		
	62.0	62.0	69.6	69.6	77.6	77.5	75.3		
	56.6	56.6	64.2	64.2	73.2	71.2	71.0		
	50.8	50.8	58.3	58.3	68.4	68.4	66.0		
	44.5	44.5	51.5	51.5	63.1	63.1	60.3		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



AFTERBURNER POWER

F-104G  
 100 % RPM  
 AIRSPEED = 240 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 8  
 IDENT: 6.6-045-101-230176-A

NOISE LEVEL IN DB	60	70	80	90	100	110	120	130	140
200									
250							A+		X
315							A+		*P
400						A+			*P
500						A+			*P
S 630						A+			X
L 800						A+			*P
A 1000						A+			*P
D 1250						A+			*P
I 1600						A+			*P
S 2000						A+			*P
T 2500						A+			*P
A 3150						A+			*P
N 4000						X			*P
C 5000						A+			*P
E 6300						X			*P
I 8000						A+			X
F 10000						X			X
E 12500						X			X
E 16000						X			X
T 20000									
25000									

GROUND TO GROUND  
 P = PNLT  
 \* = PNL  
 † = ALT  
 A = AL

AFTERBURNER POWER

200	(	F-104G	100 % RPM	.	.	ST	E
250	(	AIRSPEED = 240 KNOTS		.	.	ST	E
315	(	TEMP = 59 F	REL HUMID = 70 %	.	.	ST	E
400	(	DELTA N = 0.0 DB		.	.	ST	E
500	(	NO. OF RECORDS: 8		.	.	ST	E
630	(	IDENT: 6.6-045-101-230176-A		.	.	ST	E
800	(			.	.	ST	E
1000	(			.	.	ST	E
1250	(			.	.	ST	E
1600	(			.	.	ST	E
2000	(			.	.	ST	E
2500	(			.	.	ST	E
3150	(			.	.	SX	
4000	(			.	.	SX	
5000	(			.	.	XT	
6300	(			.	.	EST.	
8000	(			.	.	E ST.	
10000	(			.	.	E X	
12500	(			.	.	E X	
16000	(			.	.	E X	
20000	(			.	.	E X	
25000	(			.	.	E X	

NOISE LEVEL IN DB

	30	40	50	60	70	80	90	100	MEAN	SD
50	.	.	.	.	.	.	.	.	79.0	7.5
63	.	.	.	.	.	X	.	.	76.7	6.7
80	.	.	.	.	X	.	.	.	73.3	5.3
100	.	.	.	.	.	.	.	.	79.1	5.0
125	.	.	.	.	.	.	.	.	90.8	4.9
160	.	.	.	.	.	.	X	.	93.8	6.4
200	.	.	.	.	.	.	.	.	94.1	10.0
250	.	.	.	.	.	.	X	.	90.7	5.4
315	.	.	.	.	.	.	.	.	91.5	4.4
400	.	.	.	.	.	.	X	.	92.9	5.9
500	.	.	.	.	.	.	.	.	90.1	3.6
630	.	.	.	.	.	.	X	.	91.0	2.7
800	.	.	.	.	.	.	.	.	91.7	1.8
1000	.	.	.	.	.	.	X	.	91.8	2.7
1250	.	.	.	.	.	.	.	.	91.6	1.6
1600	.	.	.	.	.	.	X	.	90.8	1.8
2000	.	.	.	.	.	.	.	.	89.7	2.0
2500	.	.	.	.	.	.	X	.	87.9	2.9
3150	.	.	.	.	.	.	.	.	84.1	3.1
4000	.	.	.	.	.	.	.	.	80.6	3.6
5000	.	.	.	.	.	X	.	.	75.9	4.1
6300	.	.	.	.	X	.	.	.	70.0	5.1
8000	.	.	.	X	.	.	.	.	62.6	6.3
10000	.	.	X	.	.	.	.	.	51.9	6.9

F-104G TAKEOFF POWER 100 % RPM

AIRSPEED = 239 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %

NO. OF RECORDS = 4 IDENT: 6.6-045-103-230176

PNLT = 113.0 PNDB  
 PNL = 112.2 PNDB  
 ALT = 101.2 DBA  
 AL = 100.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		A/C CODE: 045																						
F-104G		OPS CODE: 103																						
		PROFILE VER: A																						
		23 JAN 76																						
		PAGE M2																						
		METEOROLOGY:																						
		TEMP = 59 F																						
		REL HUMID = 70 %																						
		DELTA N = 0.0 DB																						
		AIRSPEED = 240 KNOTS																						
		FREQUENCY BAND NUMBER																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	91	87	93	105	108	108	105	106	107	105	106	107	107	107	107	107	106	104	102	99	97	95	93
250	91	89	85	91	103	106	106	103	104	105	103	104	105	105	105	105	105	104	101	100	96	94	92	89
315	89	87	83	89	101	104	104	101	102	103	101	102	103	103	103	103	102	101	99	97	94	91	88	85
400	87	85	81	87	95	102	102	99	100	101	99	100	101	101	101	101	100	99	96	94	91	88	85	80
500	85	83	79	85	97	100	100	97	98	99	97	98	98	99	99	98	98	96	94	91	88	84	80	75
630	83	81	77	83	95	98	98	95	96	97	94	95	96	97	96	96	95	94	91	88	84	80	75	68
800	81	79	75	81	93	96	96	93	94	95	92	93	94	94	94	93	93	91	88	85	80	75	69	61
1000	79	77	73	79	91	94	94	91	92	93	90	91	92	92	92	91	90	88	84	81	76	70	63	52
1250	77	75	71	77	89	92	92	89	89	91	88	89	89	89	89	88	87	85	80	76	71	64	55	41
1600	75	73	69	75	87	90	90	86	87	88	86	86	87	87	86	85	83	81	76	71	65	57	45	28
2000	73	71	67	73	85	87	88	84	85	86	83	84	84	84	83	82	80	77	71	65	59	48	34	12
2500	71	69	65	71	82	85	86	82	83	84	81	81	81	81	80	78	76	72	66	58	51	38	20	
3150	69	66	63	69	80	83	83	80	80	81	78	79	79	78	77	74	71	67	59	50	42	26		
4000	67	64	61	67	78	81	81	77	78	79	75	75	75	74	73	70	66	61	52	40	30	10		
5000	65	62	59	64	76	79	79	75	75	76	72	72	72	70	68	65	60	54	43	28	17			
6300	62	60	57	62	74	76	76	72	73	73	69	69	68	66	63	59	53	45	32	14				
8000	60	58	54	60	71	74	74	70	70	70	66	65	64	61	57	52	45	35	19					
10000	58	56	52	57	69	71	71	67	66	66	62	61	59	55	51	44	35	23						
12500	56	53	50	55	66	68	68	64	63	62	58	56	53	49	43	34	24							
16000	54	51	47	52	63	66	65	60	59	58	53	50	46	41	33	22								
20000	51	49	45	50	61	62	61	56	55	53	47	43	38	31	22									
25000	49	46	42	47	57	59	57	52	50	47	40	35	28	20										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION					IDENTIFICATION†				
AIRCRAFT‡	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDR)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)		
	116.9	117.6	129.9	130.6	118.5	119.5	122.0		
	114.7	115.4	127.6	128.4	117.3	118.3	120.7		
	112.5	113.2	125.3	126.0	116.1	117.1	119.4		
	110.2	110.9	122.9	123.6	114.8	115.8	118.0		
	107.9	108.6	120.4	121.1	113.5	114.5	116.5		
	105.5	106.2	117.8	118.5	112.1	113.1	114.9		
	103.0	103.8	115.1	115.8	110.6	111.6	113.2		
	101.5	101.2	112.2	113.0	109.1	110.1	111.3		
	97.9	98.6	109.2	110.0	107.5	108.5	109.3		
	95.2	95.9	106.2	106.9	105.7	106.7	107.2		
	92.3	93.0	102.9	103.6	103.9	104.9	104.9		
	89.3	90.1	99.5	100.2	101.9	102.9	102.5		
	86.2	87.0	96.3	97.0	99.8	100.8	100.3		
	83.0	83.6	93.0	93.5	97.6	98.4	97.9		
	79.6	80.1	89.6	90.0	95.2	95.8	95.3		
	76.1	76.4	86.1	86.4	92.7	93.1	92.5		
	72.5	72.6	82.5	82.7	90.1	90.3	89.8		
	68.7	68.7	78.7	78.7	87.3	87.3	86.8		
	64.8	64.8	74.7	74.7	84.4	84.4	83.8		
	60.8	60.8	70.4	70.4	81.3	81.3	80.5		
	56.5	56.5	65.8	65.8	78.1	78.1	76.9		
	52.1	52.1	60.8	60.8	74.7	74.7	72.9		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 ( F-104G TAKEOFF POWER -----A+-----*P)
    ( 100 % RPM . . . . . X . . . . . X . . )
250 ( AIRSPEED = 240 KNOTS . . . . . X . . . . . X . . )
315 ( TEMP = 59 F REL HUMID = 70 % . . . . . A+ . . . . . *P . . )
400 ( DELTA N = 0.0 DB . . . . . A+ . . . . . *P . . )
500 ( NO. OF RECORDS: 4 . . . . . A+ . . . . . *P . . )
    ( IDENT: 6.6-045-103-230176-A . . . . . *P . . . . . )
S 630 ( . . . . . X . . . . . *P . . . . . )
L 800 ( . . . . . A+ . . . . . *P . . . . . )
N 1000 ( . . . . . X . . . . . *P . . . . . )
D 1250 ( . . . . . A+ . . . . . *P . . . . . )
I 1600 ( . . . . . A+ . . . . . *P . . . . . )
T 2000 ( . . . . . A+ . . . . . *P . . . . . )
C 2500 ( . . . . . A+ . . . . . *P . . . . . )
E 3150 ( . . . . . A+ . . . . . *P . . . . . )
I 4000 ( . . . . . A+ . . . . . *P . . . . . )
F 5000 ( . . . . . X . . . . . )
E 6300 ( . . . . . X . . . . . )
T 8000 ( . . . . . A+ . . . . . )
10000 ( . . . . . X . . . . . )
12500 ( . . . . . X . . . . . )
16000 ( . . . . . X . . . . . )
20000 ( . . . . . X . . . . . )
25000 ( . . . . . X . . . . . )

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AIR TO GROUND
P = PNL
* = PNL
+ = ALT
A = AL

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NOISE LEVEL IN DB

F-104G TAKEOFF POWER  
 100 % RPM  
 AIRSPEED = 240 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 4  
 IDENT: 6.6-045-103-230176-A

	50	60	70	80	90	100	110	120	130
S 630									
L 800									
A 800									
N 1000									
T 1000									
D 1250									
I 1600									
S 1600									
T 2000									
A 2000									
N 2500									
C 2500									
E 3150									
I 4000									
N 5000									
F 5000									
E 6300									
T 8000									
10000									
12500									
16000									
20000									
25000									

AIR TO GROUND  
 E = EPNL  
 T = SELT  
 S = SEL

TABLE 1		SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																IDENTIFICATION:							
		GROUND-TO-GROUND PROPAGATION																OMEGA 6.6							
AIRCRAFT:		METEOROLOGY:																A/C CODE: 045							
( F-104G		TAKEOFF POWER = 59 F																OPS CODE: 103							
(		100 % RPM																REL HUMID = 70 %							
(		AIRSPEED = 240 KNOTS																PROFILE VER: A							
(		DELTA N = 0.0 DB																23 JAN 76							
(																		PAGE L2							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 86	86	86	82	88	100	103	103	100	101	102	100	101	102	102	102	102	102	101	99	97	94	92	90	88
( 250	( 86	84	80	86	98	101	101	58	99	100	96	99	100	100	100	100	100	100	99	36	95	91	89	87	84
( 315	( 84	82	78	84	96	99	99	96	97	98	96	97	98	98	98	98	97	96	94	92	92	89	86	83	80
( 400	( 82	80	76	82	94	97	97	94	95	96	94	95	96	96	96	96	96	95	94	91	89	86	83	80	75
( 500	( 80	78	74	80	92	94	95	92	93	94	92	93	93	93	94	93	93	93	91	89	86	83	79	75	70
( 630	( 78	76	72	78	89	92	92	89	91	92	89	90	91	92	91	91	90	89	86	83	79	75	70	63	
( 800	( 76	74	70	76	86	89	89	86	89	90	87	88	89	89	89	88	88	86	83	80	75	70	64	56	
( 1000	( 74	72	68	73	84	86	86	83	86	88	85	86	87	87	87	86	85	83	79	76	71	65	58	47	
( 1250	( 72	70	65	70	80	83	83	80	83	86	83	84	84	84	84	83	82	80	75	71	66	59	50	36	
( 1600	( 70	66	62	66	77	79	80	77	80	83	81	81	82	82	81	80	78	76	71	66	60	52	40	23	
( 2000	( 67	63	58	62	73	76	76	73	76	81	78	79	79	79	78	77	75	72	56	60	54	43	29	7	
( 2500	( 63	59	54	58	69	71	71	68	72	77	76	76	76	76	75	73	71	67	51	53	46	33	15		
( 3150	( 59	55	49	53	64	66	66	63	68	73	72	74	74	73	72	69	66	62	54	45	37	21			
( 4000	( 55	49	44	48	58	60	61	57	63	68	68	70	70	69	68	65	61	56	47	35	25				
( 5000	( 50	45	39	43	53	56	56	52	57	63	64	66	66	65	63	60	55	49	38	23	12				
( 6300	( 44	40	35	38	49	51	51	47	51	57	59	61	62	61	58	54	48	40	27	9					
( 8000	( 42	38	32	36	46	48	48	45	48	54	56	57	58	56	52	47	40	30	14						
( 10000	( 40	36	30	33	44	46	45	42	44	50	52	53	53	50	46	39	30	18							
( 12500	( 38	33	28	31	41	43	42	39	41	46	48	48	47	44	38	29	19	3							
( 16000	( 36	31	25	28	38	40	39	35	37	42	43	42	40	36	28	17	4								
( 20000	( 33	29	23	26	36	37	35	31	33	37	37	35	32	26	17	3									
( 25000	( 31	26	20	23	32	33	32	27	28	31	30	27	22	15	3										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	OPERATION:	METEOROLOGY:	IDENTIFICATION:	OMEGA 6.6
F-104G								TAKEOFF POWER = 59 F	TEMP	A/C CODE: 045	
								100 % RPM	REL HUMID = 70 %	OPS CODE: 103	
								AIRSPEED = 240 KNOTS	DELTA N = 0.0 DB	PROFILE VER: A	
										23 JAN 76	
										PAGE M2	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	111.9	112.6	124.9	125.6	113.5	114.4	116.9				
250	109.7	110.4	122.6	123.3	112.3	113.2	115.6				
315	107.5	108.2	120.3	121.0	111.1	112.0	114.3				
400	105.2	105.9	117.9	118.6	109.8	110.7	112.9				
500	102.9	103.6	115.3	116.0	108.5	109.4	111.4				
630	100.5	101.2	112.7	113.4	107.1	108.0	109.7				
800	98.0	98.7	109.9	110.6	105.6	106.5	107.9				
1000	95.4	96.1	106.9	107.6	104.0	105.0	105.9				
1250	92.7	93.4	103.7	104.4	102.3	103.3	103.8				
1600	89.9	90.6	100.4	101.1	100.5	101.5	101.4				
2000	87.0	87.7	96.8	97.5	98.6	99.5	98.8				
2500	83.7	84.4	92.8	93.5	96.3	97.3	95.9				
3150	80.2	80.9	88.5	89.2	93.8	94.8	92.5				
4000	76.3	76.9	83.7	84.2	90.9	91.7	88.5				
5000	71.9	72.3	78.7	79.1	87.5	88.1	84.3				
6500	67.1	67.4	73.4	73.6	83.7	84.1	79.8				
8000	62.5	62.6	68.6	68.7	80.1	80.3	75.8				
10000	57.4	57.4	63.3	63.3	76.0	76.0	71.3				
12500	51.9	51.9	57.7	57.7	71.5	71.5	66.7				
16000	46.0	46.0	51.7	51.7	66.6	66.6	61.8				
20000	39.6	39.6	45.0	45.0	61.2	61.2	56.1				
25000	32.9	32.9	37.2	37.2	55.5	55.5	49.3				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	50	60	70	80	90	100	110	120	130	
200	F-104G TAKEOFF POWER									
250	100 % RPM									
315	AIRSPEED = 240 KNOTS									
400	TEMP = 59 F REL HUMID = 70 %									
500	DELTA N = 0.0 DB									
630	NO. OF RECORDS: 4									
800	IDENT: 6.6-045-103-230176-A									
1000										
1250										
1600										
2000										
2500										
3150										
4000										
5000										
6300										
8000										
10000										
12500										
16000										
20000										
25000										

Frequency	Power	Notes	40	50	60	70	80	90	100	110	120
200	(	F-104G									
250	(	100 % RPM									
315	(	AIRSPEED = 240 KNOTS									
400	(	TEMP = 59 F REL HUMID = 70 %									
500	(	DELTA N = 0.0 DB									
	(	NO. OF RECORDS: 4									
	(	IDENT: 6.6-045-103-230176-A									
S	(										
L	(										
A	(										
N	(										
T	(										
D	(										
I	(										
S	(										
T	(										
A	(										
N	(										
C	(										
E	(										
3150	(										
I	(										
N	(										
4000	(										
F	(										
E	(										
E	(										
T	(										
8000	(										
10000	(										
12500	(										
16000	(										
20000	(										
25000	(										

	20	30	40	50	60	70	80	90	MEAN	SD
50	.	.	.	.	.	.	.	.	68.3	4.4
63	.	.	.	.	.	X	.	.	66.8	3.4
80	.	.	.	.	X	.	.	.	66.3	4.5
100	.	.	.	.	.	X	.	.	68.9	2.6
125	.	.	.	.	.	.	X	.	74.1	1.1
160	.	.	.	.	.	.	X	.	76.6	2.9
200	.	.	.	.	.	X	.	.	71.2	3.9
250	.	.	.	.	.	.	X	.	77.2	3.3
315	.	.	.	.	.	.	X	.	77.3	3.2
400	.	.	.	.	.	.	.	X	81.9	3.0
500	.	.	.	.	.	.	X	.	82.3	3.1
630	.	.	.	.	.	.	X	.	81.7	2.4
800	.	.	.	.	.	.	.	X	88.1	5.3
1000	.	.	.	.	.	.	.	X	89.0	3.8
1250	.	.	.	.	.	.	.	X	83.1	4.1
1600	.	.	.	.	.	.	.	X	83.5	2.2
2000	.	.	.	.	.	.	.	X	82.7	2.3
2500	.	.	.	.	.	.	.	X	61.8	3.0
3150	.	.	.	.	.	.	X	.	79.0	4.0
4000	.	.	.	.	.	.	.	X	74.1	3.0
5000	.	.	.	.	.	X	.	.	69.2	2.6
6300	.	.	.	.	.	.	.	.	63.3	2.1
8000	.	.	.	.	X	.	.	.	54.7	1.1
10000	.	.	.	.	.	.	.	.	44.8	1.5

F-104G CRUISE POWER 92 % RPM

AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 105.9 PNDB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 104.5 PNDB  
 NO. OF RECORDS = 4 IDENT: 6.6-J45-104-230176 ALT = 95.7 DBA  
 AL = 94.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (JB)*		IDENTIFICATION:																								
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		A/C CODE: 045																								
( OPERATION:		OPS CODE: 104																								
( CRUISE POWER		PROFILE VER: A																								
( 92 % RPM		23 JAN 76																								
( AIRSPEED = 300 KNOTS		PAGE H3																								
( DELTA N = 0.0 DB																										
SLANT DISTANCE (FEET)		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
	FREQUENCY BAND NUMBER																									
200		82	81	80	83	88	91	85	92	92	96	97	96	103	104	99	39	39	99	99	97	94	91	88	84	81
250		80	79	78	81	86	89	83	90	90	94	95	94	101	102	96	97	97	97	95	92	88	85	81	78	
315		78	77	76	79	84	87	81	88	88	92	93	92	99	100	94	95	95	95	93	90	86	82	78	74	
400		76	75	74	77	82	85	79	85	86	90	91	90	97	98	92	93	93	92	90	87	83	79	74	70	
500		74	73	72	75	80	83	77	83	84	88	89	88	95	96	90	91	90	90	88	84	80	76	70	65	
630		72	71	70	73	78	81	75	81	81	86	87	86	92	94	88	88	88	87	85	81	77	72	66	59	
800		70	69	68	71	76	79	73	79	79	84	84	84	90	91	85	86	85	82	82	78	73	68	61	53	
1000		68	67	66	69	74	77	71	77	77	82	82	82	88	89	83	83	83	82	79	74	69	63	55	45	
1250		66	65	64	67	72	74	69	75	75	80	80	79	86	87	81	81	80	79	75	70	65	58	48	35	
1600		64	63	62	65	70	72	67	73	73	78	78	77	83	84	78	78	77	75	72	65	60	52	39	24	
2000		62	61	60	63	68	70	65	71	71	75	75	75	81	81	75	75	74	72	67	60	54	44	29	11	
2500		60	59	58	61	65	68	63	69	69	73	73	72	78	79	72	72	70	67	62	54	47	35	17		
3150		58	57	56	59	64	66	61	66	66	71	71	70	75	76	69	68	66	63	57	47	39	25	3		
4000		56	55	54	56	62	64	58	64	64	68	68	67	72	72	65	64	61	57	50	38	29	12			
5000		54	52	52	54	59	62	56	62	61	65	65	64	69	69	61	59	55	51	42	28	18				
6300		52	50	50	52	57	59	54	59	59	63	62	61	66	65	57	54	50	44	33	16					
8000		50	48	48	50	55	57	51	57	56	60	59	57	62	60	52	48	43	35	22	1					
10000		48	46	45	48	52	54	49	54	53	56	55	53	57	55	46	41	34	24	8						
12500		45	44	43	45	50	52	46	51	50	53	51	49	52	49	39	33	24	11							
16000		43	41	41	43	47	49	43	48	46	49	47	44	46	42	30	23	12								
20000		41	39	38	40	45	46	40	44	42	44	42	38	39	34	21	10									
25000		39	37	36	37	42	43	36	40	38	39	36	31	31	24	9										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	CRUISE POWER	92 % RPM	300 KNOTS	DELTA N = 0.0 DB	METEOROLOGY:	TEMP	REL HUMID = 70 %	IDENTIFICATION:
F-104G									OMEGA 6.6
									A/C CODE: 045
									OPS CODE: 104
									PROFILE VER: A
									23 JAN 76
									PAGE I3
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	110.2	111.6	121.7	123.1	107.9	110.0	111.6		
250	108.1	109.5	119.5	120.9	106.8	108.8	110.3		
315	105.9	107.3	117.2	118.6	105.6	107.6	109.1		
400	103.7	105.1	114.8	116.3	104.4	106.4	107.7		
500	101.4	102.9	112.4	113.8	103.1	105.2	106.3		
630	99.1	100.5	109.9	111.3	101.8	103.9	104.8		
800	96.7	98.2	107.2	108.7	100.5	102.5	103.1		
1000	94.3	95.7	104.5	105.9	99.0	101.0	101.3		
1250	91.7	93.2	101.5	102.9	97.5	99.5	99.4		
1600	89.1	90.5	98.4	99.8	95.8	97.8	97.2		
2000	86.3	87.7	95.0	96.5	94.0	96.1	94.9		
2500	83.4	84.8	91.9	93.3	92.1	94.2	92.7		
3150	80.3	81.8	88.5	89.9	90.1	92.1	90.4		
4000	77.1	78.2	85.0	86.1	87.8	89.4	87.4		
5000	73.6	74.4	81.3	82.1	85.3	86.5	84.3		
6300	69.8	70.4	77.3	77.9	82.6	83.4	80.9		
8000	65.8	66.1	73.0	73.3	79.5	79.9	77.3		
10000	61.4	61.4	68.4	68.4	76.1	76.1	73.3		
12500	56.6	56.6	63.7	63.7	72.3	72.3	69.6		
16000	51.5	51.5	58.9	58.9	68.2	68.2	65.7		
20000	46.1	46.1	53.5	53.5	63.8	63.8	61.3		
25000	40.5	40.5	47.5	47.5	59.2	59.2	56.4		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----A-----*P)
( F-104G CRUISE POWER )
250 ( . 92 % RPM . A+ . *P )
315 ( . AIRSPEED = 300 KNOTS . )
( . TEMP = 59 F REL HUMID = 70 % . A+ . * P. )
400 ( . DELTA N = 6.0 DB . )
( . NO. OF RECORDS: 4 . A+ . *P )
500 ( . IDENT: 6.6-045-104-230176-A . A.+ . * P . . . . )
630 ( . . . . A.+ . *P )
SLA 800 ( . . . . A+ . * P. )
NT 1000 ( . . . . A + . * P . . . . )
D 1250 ( . . . . A+ . *P )
I 1600 ( . . . . A.+ . * P )
STA 2000 ( . . . . A + . *P . . . . )
NG 2500 ( . . . . A + . *P )
E 3150 ( . . . . A + *P )
IN 4000 ( . . . . A+ . *P )
FE 5000 ( . . . . X . *P . . . . )
E 6300 ( . . . . X *P . . . . )
T 8000 ( . . . . X . X . . . . )
10000 ( . . . . X . . . . X . . . . )
12500 ( . . . . X . X . . . . )
16000 ( . X . . . . X . . . . )
20000 ( . . X . . . . X . . . . )
25000 (-----)
50 60 70 80 90 100 110 120 130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNL
* = PNL
+ = ALT
A = AL

```





TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
F-104G		TEMP = 59 F																						
		REL HUMID = 79 %																						
		A/C CODE: 045																						
		OPS CODE: 104																						
		PROFILE VER: A																						
		23 JAN 76																						
		PAGE L3																						
		DELTA N = 0.0 DB																						
		AIRSPEED = 300 KNOTS																						
		FREQUENCY BAND NUMBER																						
		NUMBER																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	76	75	78	83	86	80	87	87	91	92	91	99	99	94	94	94	94	92	89	96	83	79	76
250	75	74	73	76	81	84	78	85	85	89	90	89	96	97	91	92	92	92	90	87	83	80	76	73
315	73	72	71	74	79	82	76	83	83	87	88	87	94	95	89	90	90	90	88	85	81	77	73	69
400	71	70	69	72	77	80	74	80	81	85	86	85	92	93	87	88	88	87	85	82	78	74	69	65
500	69	68	67	70	75	77	72	78	79	83	84	83	90	91	85	86	85	85	83	79	75	71	65	60
630	67	66	65	68	72	74	69	76	76	81	82	81	87	89	83	83	83	82	80	76	72	67	61	54
800	65	64	63	66	70	72	66	73	74	79	79	79	85	86	80	81	80	80	77	73	68	63	56	48
1000	63	62	61	63	67	69	63	71	72	77	77	77	83	84	78	78	78	77	74	69	64	58	50	40
1250	61	60	58	59	64	66	60	67	69	75	75	74	81	82	76	76	75	74	70	65	60	53	43	30
1600	59	57	55	56	60	62	57	63	66	73	73	72	78	79	73	73	72	70	67	60	55	47	34	19
2000	56	53	51	52	56	58	53	59	62	70	70	70	76	76	70	70	69	67	62	55	49	39	24	6
2500	53	49	47	48	52	54	49	55	58	67	68	67	73	74	67	67	65	62	57	49	42	30	12	
3150	49	45	42	43	47	49	44	50	54	62	65	65	70	71	64	63	61	58	52	42	34	20		
4000	44	40	37	38	42	43	38	44	49	58	61	61	67	67	60	59	56	52	45	33	24			
5000	39	35	32	33	37	39	33	39	43	52	57	57	64	64	56	54	51	46	37	23				
6300	34	30	28	28	32	34	28	34	37	47	52	53	60	60	52	49	45	39	28					
8000	32	28	26	26	30	31	26	32	34	44	49	49	56	55	47	43	38	30	17					
10000	30	26	23	24	27	29	23	29	31	40	45	45	51	50	41	36	29	19	3					
12500	27	24	21	21	25	26	20	26	28	37	41	41	46	44	34	28	19	6						
16000	25	21	19	19	22	23	17	23	24	33	37	36	40	37	25	18	7							
20000	23	19	16	16	20	21	14	19	20	28	32	30	33	29	16	5								
25000	21	17	14	13	17	17	10	15	16	23	26	23	25	19	4									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:						
F-104G	CRUISE POWER 92 % RPM	TEMP REL HUMID = 70 %	OMEGA	6.6					
	AIRSPEED = 300 KNOTS	DELTA N = 0.0 DB							
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	105.2	106.5	116.7	118.1	102.9	105.0	106.6		
250	103.1	104.5	114.5	115.9	101.8	103.8	105.3		
315	100.9	102.3	112.2	113.6	100.6	102.6	104.0		
400	98.7	100.1	109.8	111.2	99.4	101.4	102.7		
500	96.4	97.9	107.4	108.8	98.1	100.2	101.2		
630	94.1	95.5	104.8	106.2	96.8	98.9	99.7		
800	91.7	93.2	102.1	103.5	95.4	97.5	98.0		
1000	89.3	90.7	99.2	100.7	94.0	96.0	96.1		
1250	86.7	88.1	96.2	97.6	92.4	94.5	94.1		
1600	84.1	85.5	92.9	94.3	90.8	92.8	91.8		
2000	81.3	82.7	89.4	90.8	89.0	91.0	89.2		
2500	78.3	79.7	85.9	87.4	87.0	89.1	86.8		
3150	75.1	76.6	82.2	83.6	84.9	86.9	84.1		
4000	71.7	72.8	78.1	79.2	82.4	84.0	80.6		
5000	67.8	68.7	73.7	74.5	79.6	80.8	76.7		
6300	63.6	64.1	68.8	69.4	75.3	77.1	72.5		
8000	59.2	59.5	64.1	64.4	72.9	73.3	68.3		
10000	54.4	54.4	58.9	58.9	69.1	69.1	63.8		
12500	49.0	49.0	53.1	53.1	64.7	64.7	59.0		
16000	42.9	42.9	46.4	46.4	59.6	59.6	53.3		
20000	36.1	36.1	38.0	38.0	53.8	53.3	45.8		
25000	28.6	28.6	28.7	28.7	47.3	47.3	37.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----A-----*P)
( F-104G CRUISE POWER )
250 ( . 92 % RPM . . . . . A+ . . . . . * P )
( AIRSPEED = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . A+ . . . . . * P )
( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 4 . . . . . A+ . . . . . *P )
( IDENT: 6.6-045-104-230176-A )
500 ( . . . . . A + . . . . . *P. . . . . )
)
S 630 ( . . . . . A + . . . . . *P . . . . . )
)
L 800 ( . . . . . A+ . . . . . * P . . . . . )
)
A 1000 ( . . . . . A+. . . . . *P. . . . . )
)
D 1250 ( . . . . . A+ . . . . . * P . . . . . )
)
I 1600 ( . . . . . A+ . . . . . *P . . . . . )
)
S 2000 ( . . . . . A.+ . . . . . *P. . . . . )
)
T 2500 ( . . . . . A + . . . . . *P . . . . . )
)
)
I 3150 ( . . . . . A + . . . . . * P . . . . . )
)
N 4000 ( . . . . . A+ . . . . . *P. . . . . )
)
)
F 5000 ( . . . . . A+. . . . . *P. . . . . )
)
E 6300 ( . . . . . X . . . . . )
)
E 8000 ( . . . . . X. X . . . . . )
)
)
10000 ( . . . . . X . . . . . )
)
12500 ( . . . . . X. X . . . . . )
)
16000 ( . . . . . X X . . . . . )
)
20000 ( . . . . . )
)
25000 (-----NOISE LEVEL IN DB-----)
40 50 60 70 80 90 100 110 120
GROUND TO GROUND
P = PNL
* = PNL
+ = ALT
A = AL

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		30	40	50	60	70	80	90	100	110	
		NOISE LEVEL IN DB									
200	(	S									
250	(	F-104G CRUISE POWER									
315	(	92% RPM									
400	(	AIRSPEED = 300 KNOTS									
500	(	TEMP = 59 F REL HUMID = 70%									
630	(	DELTA N = 0.0 DB									
800	(	NO. OF RECORDS: 4									
1000	(	IDENT: 6.6-045-104-230176-A									
1250	(	.	.	.	.	.	.	.	.	. S T .	
1600	(	.	.	.	.	.	.	.	.	. S T E .	
2000	(	.	.	.	.	.	.	.	.	. S T E .	
2500	(	.	.	.	.	.	.	.	.	. S T E .	
3150	(	.	.	.	.	.	.	.	.	. S T E .	
4000	(	.	.	.	.	.	.	.	.	. S T E .	
5000	(	.	.	.	.	.	.	.	.	. S T E .	
6300	(	.	.	.	.	.	.	.	.	. S T E .	
8000	(	.	.	.	.	.	.	.	.	. S T E .	
10000	(	.	.	.	.	.	.	.	.	. S T E .	
12500	(	.	.	.	.	.	.	.	.	. S T E .	
16000	(	.	.	.	.	.	.	.	.	. S T E .	
20000	(	.	.	.	.	.	.	.	.	. S T E .	
25000	(	.	.	.	.	.	.	.	.	. S T E .	

	20	30	40	50	60	70	80	90	MEAN	SD
F 50	.	.	.	.	.	.	.	.	69.2	4.4
63	.	.	.	.	.	X	.	.	69.6	3.8
80	.	.	.	.	.	X	.	.	66.7	5.6
100	.	.	.	.	.	.	X	.	75.0	2.3
R 125	.	.	.	.	.	.	X	.	81.0	4.5
160	.	.	.	.	.	.	.	X	84.4	3.9
E 200	.	.	.	.	.	.	X	.	81.3	1.6
250	.	.	.	.	.	.	X	.	81.6	2.9
315	.	.	.	.	.	.	.	X	84.0	4.7
400	.	.	.	.	.	.	X	.	82.4	2.7
N 500	.	.	.	.	.	.	X	.	81.7	3.8
630	.	.	.	.	.	.	.	X	82.6	3.0
800	.	.	.	.	.	.	.	X	85.9	1.9
I 1000	.	.	.	.	.	.	.	X	84.6	4.6
1250	.	.	.	.	.	.	.	X	81.6	2.5
N 1600	.	.	.	.	.	.	.	X	80.8	1.8
2000	.	.	.	.	.	.	X	.	80.1	1.0
H 2500	.	.	.	.	.	.	.	X	77.9	2.6
Z 3150	.	.	.	.	.	X	.	.	75.2	3.1
4000	.	.	.	.	.	.	.	.	72.0	3.5
5000	.	.	.	.	.	X	.	.	68.2	2.9
6300	.	.	.	.	.	.	.	.	63.2	3.1
8000	.	.	.	X	.	.	.	.	54.7	3.5
10000	.	.	X	.	.	.	.	.	42.2	2.5

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB      95 % RPM

F-104G      APPROACH POWER

AIRSPEED = 190 KNOTS      TEMP = 59 F      PNLT = 103.6 PNOB

SLANT DISTANCE = 1000 FEET      REL HUMID = 70 %      PNL = 103.0 PNOB

NO. OF RECORDS = 4      IDENT: 6.6-045-105-230176      ALT = 92.5 OBA

AL = 92.0 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																																
AIR-TO-GROUND PROPAGATION															IDENTIFICATION:																	
OPERATION:															OMEGA 6.6																	
APPROACH POWER = 59 F															A/C CODE: 045																	
95 % RPM															OPS CODE: 105																	
AIRSPEED = 190 KNOTS															PROFILE VER: A																	
DELTA N = 0.0 DB															23 JAN 76																	
															PAGE H4																	
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40								
200	83	84	81	89	95	99	95	96	98	97	96	97	101	100	97	97	97	95	94	92	90	88	84	78								
250	81	82	79	87	93	97	93	94	96	95	94	95	99	93	95	95	94	93	91	90	87	85	81	75								
315	79	80	77	85	91	95	91	92	94	93	92	93	97	96	93	92	92	91	89	87	84	82	77	71								
400	77	78	75	83	89	93	89	90	92	91	90	91	95	94	91	90	88	87	85	82	79	74	67									
500	75	76	73	81	87	91	87	88	90	89	88	89	92	91	88	88	86	84	82	79	76	70	62									
630	73	74	71	79	85	89	85	86	88	87	86	87	90	89	86	86	85	83	81	79	76	72	66	56								
800	71	72	69	77	83	86	83	84	86	85	84	85	88	87	84	83	83	81	78	76	72	68	61	50								
1000	69	70	67	75	81	84	81	82	84	82	82	83	86	85	82	81	80	78	75	72	68	63	55	42								
1250	67	68	65	73	79	82	79	80	82	80	80	81	84	82	79	73	77	75	72	68	64	58	48	33								
1600	65	66	63	71	77	80	77	77	80	78	77	78	81	80	76	75	74	72	68	64	59	52	40	22								
2000	63	64	61	69	75	78	75	75	75	76	75	76	79	77	74	72	71	68	64	58	53	44	30	9								
2500	61	61	59	67	73	76	73	73	75	74	73	73	76	74	71	69	67	64	59	52	46	36	18									
3150	59	59	56	65	71	74	71	71	73	71	70	71	73	71	67	66	63	59	53	45	39	25	4									
4000	57	57	54	63	68	72	68	69	71	69	67	69	70	68	64	62	59	54	47	37	29	13										
5000	55	55	52	60	66	69	66	66	68	66	65	65	67	65	60	57	54	48	39	27	18											
6300	53	53	50	58	64	67	64	64	66	63	62	62	64	61	56	52	48	40	30	15	4											
8000	51	51	48	56	62	65	61	61	63	60	59	58	60	56	51	46	41	32	19	0												
10000	49	49	46	54	59	62	59	58	60	57	55	54	55	51	45	39	32	21	6													
12500	46	47	43	51	57	60	56	55	57	54	51	50	50	45	38	31	22	9														
16000	44	44	41	49	54	57	53	52	53	50	47	45	44	39	30	21	10															
20000	42	42	39	46	52	54	50	49	49	45	42	39	37	30	20	9																
25000	40	39	36	44	49	51	46	45	45	40	36	32	29	21	8																	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)	REL HUMID = 70 %	TEMP	METEOROLOGY:
F-104G	107.7	108.2	119.9	120.5	109.5	110.6	113.2	59 F		A/C CODE: 045
	105.6	106.1	117.7	118.3	109.4	109.5	112.0			OPS CODE: 105
	103.4	103.9	115.5	116.0	107.2	108.3	110.8			PROFILE VER: A
	101.2	101.8	113.1	113.7	106.0	107.1	109.4			23 JAN 76
	99.0	99.5	110.7	111.3	104.8	105.9	108.0			PAGF I4
	96.7	97.2	108.3	108.8	103.5	104.6	106.6			
	94.4	94.9	105.7	106.2	102.2	103.3	105.0			
	92.0	92.5	103.0	103.6	100.8	101.9	103.3			
	89.5	90.0	100.3	100.8	99.3	100.4	101.6			
	86.9	87.5	97.3	97.9	97.7	98.8	99.6			
	84.3	84.8	94.2	94.8	96.1	97.2	97.5			
	81.5	82.0	91.2	91.7	94.3	95.4	95.5			
	79.1	79.1	88.0	88.6	92.4	93.5	93.3			
	75.5	76.0	84.7	85.2	90.3	91.2	90.8			
	72.3	72.6	81.2	81.5	88.1	88.8	88.1			
	68.9	69.1	77.6	77.8	85.7	86.1	85.3			
	65.3	65.4	74.0	74.2	83.1	83.3	82.5			
	61.5	61.5	70.3	70.3	80.3	80.3	79.5			
	57.5	57.5	66.3	66.3	77.3	77.3	76.5			
	53.4	53.4	62.0	62.0	74.2	74.2	73.2			
	49.1	49.1	57.3	57.3	70.9	70.9	69.5			
	44.7	44.7	52.3	52.3	67.5	67.5	65.5			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	APPROACH POWER										
	40	50	60	70	80	90	100	110	120		
200	(	(	(	(	(	(	(	(	(	(	(
	F-104G	95 % RPM									
250	(	(	(	(	(	(	(	(	(	(	(
	AIR SPEED = 190 KNOTS										
315	(	(	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %									
400	(	(	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB										
500	(	(	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 4										
	IDENT: 6.6-045-105-230176-A										
S 630	(	(	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(	(	(
A 1000	(	(	(	(	(	(	(	(	(	(	(
N 1250	(	(	(	(	(	(	(	(	(	(	(
T 1600	(	(	(	(	(	(	(	(	(	(	(
D 2000	(	(	(	(	(	(	(	(	(	(	(
I 2500	(	(	(	(	(	(	(	(	(	(	(
S 3150	(	(	(	(	(	(	(	(	(	(	(
T 4000	(	(	(	(	(	(	(	(	(	(	(
A 5000	(	(	(	(	(	(	(	(	(	(	(
N 6300	(	(	(	(	(	(	(	(	(	(	(
C 8000	(	(	(	(	(	(	(	(	(	(	(
E 10000	(	(	(	(	(	(	(	(	(	(	(
E 12500	(	(	(	(	(	(	(	(	(	(	(
E 16000	(	(	(	(	(	(	(	(	(	(	(
T 20000	(	(	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(	(	(





TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
F-114G		A/C CODE: 045																							
95% RPM		OPS CODE: 105																							
APPROACH POWER		PROFILE VER: A																							
95% RPM		23 JAN 76																							
AIRSPEED = 190 KNOTS		PAGE L4																							
DELTA N = 0.0 DB																									
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	79	76	84	90	94	90	91	91	93	92	91	92	96	95	92	92	92	90	89	87	85	83	79	73
250	76	77	74	82	88	89	91	90	89	91	90	89	90	94	93	90	90	89	88	86	85	82	80	76	70
315	74	75	72	80	86	87	88	87	88	87	88	87	88	92	91	88	87	87	85	84	82	79	77	72	56
400	72	73	70	78	84	87	84	85	86	85	86	85	86	90	89	85	85	85	83	82	80	77	74	69	62
500	70	71	68	76	82	85	82	83	84	85	84	83	84	87	86	83	83	83	81	79	77	74	71	65	57
630	68	69	66	74	79	82	79	80	83	82	81	82	81	85	84	81	81	80	78	76	74	71	67	61	51
800	66	67	64	72	77	80	76	77	81	80	79	80	79	83	82	79	78	78	76	73	71	67	63	56	45
1000	64	65	62	69	74	77	74	74	79	77	77	77	78	81	80	77	76	75	73	70	67	63	58	50	37
1250	62	63	59	66	71	74	70	71	76	75	75	75	75	79	77	74	73	72	70	67	63	59	53	43	28
1600	60	59	55	62	67	70	67	68	73	73	73	74	73	76	75	71	70	69	67	63	59	54	47	35	17
2000	57	56	52	58	63	66	63	64	69	71	70	71	70	74	72	69	67	66	63	59	53	48	39	25	4
2500	54	52	48	54	59	62	59	59	65	67	67	68	68	71	69	66	64	62	59	54	47	41	31	13	
3150	50	47	43	49	54	57	54	54	61	63	64	66	66	68	66	62	61	58	54	48	40	34	20		
4000	45	42	37	44	49	51	48	49	56	58	60	62	62	65	63	59	57	54	49	42	32	24			
5000	40	38	33	39	44	46	43	44	50	53	56	58	62	60	55	52	49	43	34	22	13				
6300	35	33	28	34	39	42	38	39	44	47	52	54	58	56	51	47	43	35	25	10					
8000	33	31	26	32	37	39	36	36	41	44	49	50	54	54	51	46	41	36	27	14					
10000	31	29	24	30	34	37	33	33	38	41	45	46	49	46	46	40	34	27	16	1					
12500	28	27	21	27	32	34	30	30	35	38	41	42	44	40	33	26	17	4							
16000	26	24	19	25	29	31	27	27	31	34	37	37	38	34	25	16	5								
20000	24	22	17	22	27	29	24	24	27	29	32	31	31	25	15	4									
25000	22	19	14	20	24	25	21	20	23	24	26	24	23	16	3										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	METEOROLOGY:			IDENTIFICATION:				
F-104G	APPROACH POWER = 59 F	TEMP	REL HUMID = 70 %	A/C CODE: 045					
	95 % RPM			OPS CODE: 105					
	AIR SPEED = 190 KNOTS	DELTA N = 0.0 DB		PROFILE VER: A					
				23 JAN 76					
				PAGE M4					
				OMEGA 6.6					
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)		
200	102.7	103.2	114.9	115.4	104.5	105.5	108.2		
250	100.6	101.1	112.7	113.2	103.4	104.4	107.0		
315	98.4	98.9	110.4	110.9	102.2	103.3	105.7		
400	96.2	96.7	108.1	108.6	101.0	102.1	104.4		
500	94.0	94.5	105.7	106.2	99.8	100.8	102.9		
630	91.7	92.2	103.1	103.6	98.5	99.5	101.4		
800	89.3	89.8	100.5	101.0	97.1	98.2	99.7		
1000	86.9	87.4	97.7	98.2	95.7	96.7	97.9		
1250	84.4	84.9	94.7	95.2	94.2	95.2	96.0		
1600	81.7	82.2	91.5	92.0	92.5	93.6	93.8		
2000	79.0	79.5	88.1	88.6	90.8	91.8	91.4		
2500	76.0	76.6	84.6	85.1	88.8	89.9	88.9		
3150	72.9	73.4	80.9	81.4	86.7	87.7	86.2		
4000	69.4	69.8	76.8	77.2	84.2	85.1	82.9		
5000	65.5	65.8	72.3	72.7	81.3	81.9	79.2		
6300	61.2	61.4	67.4	67.7	78.0	78.4	75.1		
8000	57.0	57.1	63.0	63.1	74.8	75.0	71.4		
10000	52.4	52.4	58.1	58.1	71.2	71.2	67.3		
12500	47.3	47.3	52.5	52.5	67.1	67.1	62.7		
16000	41.7	41.7	45.9	45.9	62.5	62.5	57.1		
20000	35.5	35.5	38.3	38.3	57.3	57.3	50.5		
25000	28.7	28.7	29.0	29.0	51.5	51.5	42.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----X-----X-----)
( F-104G APPROACH POWER )
250 ( . 95 % RPM . X . X )
( AIRSPEED = 190 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % . A+ . *P )
( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 4 . A+ . *P )
( IDENT: 6.6-045-105-230176-A )
500 ( . . . . . X . . . . . )
( . . . . . )
630 ( . . . . . X . . . . . *P )
( . . . . . )
800 ( . . . . . A+ . . . . . *P )
( . . . . . )
1000 ( . . . . . X . . . . . )
( . . . . . )
1250 ( . . . . . A+ . . . . . X . . . . . )
( . . . . . )
1600 ( . . . . . X . . . . . )
( . . . . . )
2000 ( . . . . . A+ . . . . . *P . . . . . )
( . . . . . )
2500 ( . . . . . A+ . . . . . X . . . . . )
( . . . . . )
3150 ( . . . . . X . . . . . )
( . . . . . )
4000 ( . . . . . A+ . . . . . X . . . . . )
( . . . . . )
5000 ( . . . . . X . . . . . *P . . . . . )
( . . . . . )
6300 ( . . . . . X . . . . . *P . . . . . )
( . . . . . )
6000 ( . . . . . X . . . . . )
( . . . . . )
10000 ( . . . . . X . . . . . )
( . . . . . )
12500 ( . . . . . X . . . . . )
( . . . . . )
16000 ( . . . . . X . . . . . )
( . . . . . )
20000 ( . . . . . )
( . . . . . )
25000 (-----X-----X-----)

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NOISE LEVEL IN DB

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200 (-----S-T-E-----)
    ( F-104G APPROACH POWER )
250 ( . 95 % RPM . . . . . )
315 ( . AIRSPEED = 190 KNOTS . . . . . )
    ( . TEMP = 59 F REL HUMID = 70 % . . . . . )
400 ( . DELTA N = 0.0 DB . . . . . )
    ( . NO. OF RECORDS: 4 . . . . . )
500 ( . IDENT: 6.6-045-105-230176-A . . . . . )
    ( . . . . . )
630 ( . . . . . )
800 ( . . . . . )
1000 ( . . . . . )
1250 ( . . . . . )
1600 ( . . . . . )
2000 ( . . . . . )
2500 ( . . . . . )
3150 ( . . . . . )
4000 ( . . . . . )
5000 ( . . . . . )
6300 ( . . . . . )
8000 ( . . . . . )
10000 ( . . . . . )
12500 ( . . . . . )
16000 ( . . . . . )
20000 ( . . . . . )
25000 (-----E-----X-----)

```

```

30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

```

	30	40	50	60	70	80	90	100	MEAN	SD
50	.	.	.	.	.	.	.	.	61.4	1.3
63	.	.	.	X	.	.	.	.	62.0	1.6
80	.	.	.	X	.	.	.	.	63.3	3.5
100	.	.	.	.	X	.	.	.	70.5	1.9
125	.	.	.	.	.	X	.	.	77.4	1.7
160	.	.	.	.	.	.	X	.	78.6	2.1
200	.	.	.	.	.	X	.	.	75.7	3.3
250	.	.	.	.	.	.	X	.	79.3	2.1
315	.	.	.	.	.	.	.	X	83.0	3.2
400	.	.	.	.	.	.	.	X	85.5	4.0
500	.	.	.	.	.	.	X	.	82.5	1.5
630	.	.	.	.	.	.	.	X	88.7	6.3
800	.	.	.	.	.	.	.	.	94.1	7.6
1000	.	.	.	.	.	.	.	.	84.1	2.4
1250	.	.	.	.	.	.	.	.	85.3	2.3
1600	.	.	.	.	.	.	X	.	92.7	2.2
2000	.	.	.	.	.	.	.	X	86.2	1.9
2500	.	.	.	.	.	.	.	X	83.7	1.3
3150	.	.	.	.	.	.	.	.	81.1	1.4
4000	.	.	.	.	.	.	.	.	77.4	1.3
5000	.	.	.	.	.	X	.	.	73.6	1.2
6300	.	.	.	.	.	.	.	.	69.0	2.4
8000	.	.	.	.	.	.	.	.	61.5	2.7
10000	.	.	.	X	.	.	.	.	52.4	2.7

F-104G INTERMEDIATE POWER 92 % RPM

AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 111.9 PNOB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 109.3 PNOB  
 NO. OF RECORDS = 4 IDENT: 6.6-045-106-230176 ALT = 101.1 DBA  
 AL = 98.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		A/C CODE: 045																						
F-104G		OPS CODE: 106																						
		PROFILE VER: A																						
		23 JAN 76																						
		PAGE H5																						
		METEOROLOGY:																						
		TEMP = 59 F																						
		REL HUMID = 70 %																						
		DELTA N = 0.0 DB																						
		AIRSPEED = 300 KNOTS																						
		FREQUENCY BAND NUMBER																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	76	77	85	92	93	90	94	97	100	97	103	109	99	101	109	103	101	100	98	95	93	91	88
250	73	74	75	83	90	91	86	92	95	98	95	101	107	97	99	107	101	99	97	95	92	91	88	85
315	71	72	73	81	88	89	86	89	93	96	93	99	105	95	97	104	98	96	95	93	90	88	84	81
400	69	70	71	79	86	87	84	87	91	94	91	97	103	93	94	102	96	94	92	90	87	85	81	77
500	67	68	69	77	84	85	82	85	89	92	89	95	101	91	92	100	94	92	90	87	84	81	77	72
630	65	66	67	75	81	83	80	83	87	90	87	93	99	89	90	98	91	89	87	84	81	78	72	66
800	63	64	65	72	79	81	78	81	85	88	85	91	96	86	88	95	89	87	84	81	77	74	67	60
1000	61	62	63	70	77	79	76	79	83	85	83	89	94	84	85	93	86	84	81	77	74	69	62	52
1250	59	60	61	68	75	77	74	77	81	83	80	86	92	82	83	90	83	81	78	73	69	64	55	43
1600	57	58	59	66	73	74	72	75	79	81	78	84	89	79	80	87	80	77	74	69	64	57	47	32
2000	55	56	57	64	71	72	69	73	77	79	76	82	87	77	77	84	77	74	70	64	59	50	37	19
2500	53	54	55	62	69	70	67	71	74	77	73	79	84	74	75	81	74	70	65	58	52	41	25	3
3150	51	52	53	60	67	68	65	68	72	74	71	77	82	71	71	77	70	65	59	51	44	31	11	
4000	49	50	51	58	65	66	63	66	70	72	68	74	79	68	68	73	65	60	53	42	34	19		
5000	47	48	49	56	63	64	61	64	67	69	66	71	75	64	64	69	60	53	45	32	23	3		
6300	45	45	47	54	60	61	58	61	65	66	63	68	72	60	59	64	54	46	36	20	9			
8000	43	43	45	51	58	59	56	59	62	63	59	64	68	56	54	58	47	37	25	6				
10000	41	41	42	49	56	57	53	56	59	60	56	60	63	51	49	51	39	27	12					
12500	39	39	40	47	53	54	50	53	56	57	52	56	58	45	42	43	29	15						
16000	36	37	38	44	51	51	47	50	52	53	48	51	53	38	34	33	16							
20000	34	34	35	42	48	48	44	46	48	48	43	45	45	30	24	21	2							
25000	32	32	33	39	45	45	41	42	44	43	37	38	38	20	12	6								

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 † BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-104G	114.3	116.9	126.0	128.6	112.3	115.5	116.6	OMEGA	6.6
	112.2	114.8	123.8	126.4	111.1	114.4	115.4		
	110.0	112.6	121.6	124.2	110.0	113.2	114.1		
	107.8	110.4	119.3	121.9	108.8	112.0	112.8		
	105.6	108.2	116.9	119.5	107.5	110.8	111.5		
	103.3	105.9	114.5	117.1	106.2	109.5	110.0		
	100.9	103.5	111.9	114.6	104.9	108.1	108.5		
	98.5	101.1	109.3	111.9	103.4	106.7	106.9		
	95.9	98.6	106.5	109.2	101.9	105.1	105.1		
	93.3	95.9	103.6	106.2	100.3	103.5	103.2		
	90.5	93.2	100.5	103.1	98.5	101.7	101.1		
	87.6	90.2	97.2	99.8	96.6	99.8	98.8		
	84.5	87.2	93.7	96.3	94.5	97.7	96.3		
	81.3	83.4	89.9	92.0	92.2	94.8	92.8		
	77.8	79.3	85.9	87.5	89.7	91.7	89.2		
	74.0	75.1	82.1	83.1	87.0	88.3	85.7		
	70.0	70.6	77.9	78.4	84.0	84.6	81.8		
	65.7	65.7	73.3	73.3	80.7	80.7	77.7		
	61.0	61.0	68.3	68.3	77.0	77.0	73.7		
	56.0	56.0	62.9	62.9	72.9	72.9	69.2		
	50.5	50.5	57.7	57.7	68.5	68.5	65.1		
	44.8	44.8	51.9	51.9	63.7	63.7	60.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.





INTERMEDIATE POWER

F-104G  
 92 % RPM  
 AIRSPEED = 300 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 4  
 IDENT: 6.6-045-106-230176-A

Frequency	40	50	60	70	80	90	100	110	120
S	.	.	.	.	.	.	.	.	.
L	.	.	.	.	.	.	.	.	.
A	.	.	.	.	.	.	.	.	.
N	.	.	.	.	.	.	.	.	.
T	.	.	.	.	.	.	.	.	.
D	.	.	.	.	.	.	.	.	.
I	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.
T	.	.	.	.	.	.	.	.	.
A	.	.	.	.	.	.	.	.	.
N	.	.	.	.	.	.	.	.	.
C	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.
I	.	.	.	.	.	.	.	.	.
N	.	.	.	.	.	.	.	.	.
F	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.
T	.	.	.	.	.	.	.	.	.
10000	.	.	.	.	.	.	.	.	.
12500	.	.	.	.	.	.	.	.	.
16000	.	.	.	.	.	.	.	.	.
20000	.	.	.	.	.	.	.	.	.
25000	.	.	.	.	.	.	.	.	.

AIR TO GROUND  
 E = EPNL  
 T = SELT  
 S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATIONS )		A/C CODE: 045																							
( INTERMEDIATE POWER )		TEMP = 59 F																							
( 92 % RPM )		REL HUMID = 70 %																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 70	71	72	80	87	88	85	89	92	95	92	98	104	94	96	104	98	96	95	93	90	88	86	83	
( 250	( 68	69	70	78	85	96	83	87	90	93	90	96	102	92	94	102	96	94	92	90	87	86	83	80	
( 315	( 66	57	68	76	83	84	81	84	88	91	88	94	100	90	92	99	93	91	90	88	85	83	79	76	
( 400	( 64	65	66	74	81	82	79	82	86	89	86	92	98	88	89	97	91	89	87	85	82	80	76	72	
( 500	( 62	63	64	72	78	79	76	80	84	87	84	90	96	86	87	95	89	87	85	82	79	76	72	67	
( 630	( 60	61	62	70	76	77	74	78	82	85	82	88	94	84	85	93	86	84	82	79	76	73	67	61	
( 800	( 58	59	60	67	73	74	71	75	80	83	80	86	91	81	83	90	84	82	79	76	72	69	62	55	
( 1000	( 56	57	58	64	70	71	68	72	78	80	78	84	89	79	80	88	81	79	76	72	69	64	57	47	
( 1250	( 54	55	56	61	67	68	65	69	75	78	75	81	87	77	78	85	78	76	73	68	64	59	50	38	
( 1600	( 52	52	52	58	64	64	61	65	72	76	73	79	84	74	75	82	75	72	69	64	59	52	42	27	
( 2000	( 49	48	48	54	60	60	57	61	68	74	71	77	82	72	72	79	72	69	65	59	54	45	32	14	
( 2500	( 46	44	44	50	55	56	53	57	64	70	68	74	79	69	70	76	69	65	60	53	47	36	20	6	
( 3150	( 42	40	39	45	51	51	48	52	60	66	65	72	77	66	66	72	65	60	54	46	39	26	14	6	
( 4000	( 37	35	34	39	45	46	42	46	55	61	61	68	74	53	63	68	60	55	48	37	29	14	6		
( 5000	( 32	30	29	34	40	41	38	41	49	56	57	64	70	59	59	64	55	48	40	27	18	4	6		
( 6300	( 27	25	25	30	35	36	33	36	43	50	53	60	66	55	54	59	49	41	31	15	4	6	6		
( 8000	( 25	23	23	27	33	34	30	34	40	47	49	56	62	51	49	53	42	32	20	1	6	6	6		
( 10000	( 23	21	20	25	31	31	28	31	37	44	46	52	57	46	44	46	34	22	7	1	6	6	6		
( 12500	( 21	19	18	23	28	28	25	28	34	41	42	48	52	40	37	38	24	10	1	6	6	6	6		
( 16000	( 18	17	16	20	26	26	22	25	30	37	38	43	47	33	29	28	11	1	6	6	6	6	6		
( 20000	( 16	14	13	18	23	23	19	21	26	32	33	37	40	25	19	16	1	1	6	6	6	6	6		
( 25000	( 14	12	11	15	20	20	15	17	22	27	27	30	32	15	7	1	1	1	6	6	6	6	6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)	IDENTIFICATION:	
F-104G	109.3	111.9	121.0	123.6	107.3	110.5	111.6	OMEGA	6.6
	107.2	109.8	118.8	121.4	106.1	109.4	110.4		
	105.0	107.6	116.5	119.2	105.0	108.2	109.1	A/C CODE: 045	
	102.8	105.4	114.2	116.9	103.8	107.0	107.8	OPS CODE: 106	
	100.6	103.2	111.9	114.5	102.5	105.8	106.4	PROFILE VER: A	
	98.3	100.9	109.4	112.0	101.2	104.5	105.0	23 JAN 76	
	95.9	98.5	106.8	109.5	99.9	103.1	103.4	PAGE M5	
	93.5	96.1	104.1	106.7	98.4	101.5	101.7		
	90.9	93.5	101.3	103.9	96.9	100.1	99.8		
	88.3	90.9	98.2	100.8	95.2	98.5	97.8		
	85.5	88.1	95.0	97.6	93.5	96.7	95.6		
	82.5	85.2	91.4	94.1	91.5	94.7	93.0		
	79.4	82.0	87.6	90.2	89.3	92.6	90.2		
	75.9	78.0	83.3	85.4	86.9	89.5	86.2		
	72.0	73.5	78.6	80.2	83.9	85.9	81.9		
	67.5	68.6	73.8	74.9	80.5	81.8	77.5		
	63.3	63.8	69.3	69.8	77.2	77.8	73.3		
	58.6	58.6	64.4	64.4	73.5	73.5	68.7		
	53.4	53.4	58.6	58.8	69.4	69.4	64.2		
	47.7	47.7	52.3	52.3	64.6	64.6	58.7		
	41.2	41.2	45.0	45.0	59.1	59.1	52.3		
	33.8	33.8	35.0	35.0	52.7	52.7	43.4		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----INTERMEDIATE POWER-----A-----P-----)
    ( F-104G
250 (     92 % RPM
    ( AIRSPEED = 300 KNOTS
315 (     TEMP = 59 F   REL HUMID = 70 %
    (     DELTA N = 0.0 DB
400 (     NO. OF RECORDS: 4
    (     IDENT: 6.6-045-106-230176-A
500 (
    (
S 630 (     .
    (     .
L 800 (     .
    (     .
A 800 (     .
    (     .
N 1000 (     .
    (     .
T 1000 (     .
    (     .
D 1250 (     .
    (     .
I 1600 (     .
    (     .
S 1600 (     .
    (     .
T 2000 (     .
    (     .
A 2000 (     .
    (     .
N 2500 (     .
    (     .
C 3150 (     .
    (     .
E 4000 (     .
    (     .
I 5000 (     .
    (     .
E 6300 (     .
    (     .
E 8000 (     .
    (     .
T 10000 (     .
    (     .
X 12500 (     .
    (     .
X 16000 (     .
    (     .
X 20000 (     .
    (     .
25000 (-----)

```

NOISE LEVEL IN DB

50      60      70      80      90      100      110      120      130

```

200 (-----S-T-E-----)
    ( F-104G INTERMEDIATE POWER )
250 ( . 92 % RPM )
    ( AIRSPEED = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 4 )
    ( IDENT: 6.6-045-106-230176-A )
500 ( . . . . . S X . . . . . )
    ( . . . . . )
630 ( . . . . . S TE . . . . . )
    ( . . . . . )
800 ( . . . . . S X . . . . . )
    ( . . . . . )
1000 ( . . . . . S X . . . . . )
    ( . . . . . )
1250 ( . . . . . S X . . . . . )
    ( . . . . . )
1600 ( . . . . . S X . . . . . )
    ( . . . . . )
2000 ( . . . . . S ET . . . . . )
    ( . . . . . )
2500 ( . . . . . S E T . . . . . )
    ( . . . . . )
3150 ( . . . . . S E T . . . . . )
    ( . . . . . )
4000 ( . . . . . E S T . . . . . )
    ( . . . . . )
5000 ( . . . . . E S T . . . . . )
    ( . . . . . )
6300 ( . . . . . E S T . . . . . )
    ( . . . . . )
8000 ( . . . . . E S T . . . . . )
    ( . . . . . )
10000 ( . . . . . E X . . . . . )
    ( . . . . . )
12500 ( . . . . . E X . . . . . )
    ( . . . . . )
16000 ( . . . . . E X . . . . . )
    ( . . . . . )
20000 ( . . . . . E X . . . . . )
    ( . . . . . )
25000 (-----X-----)
    ( 40 50 60 70 80 90 100 110 120 )

```

USAF  
F-104D AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT  
F-104D AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT  
F-104D AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT

NOISE PRODUCED ON THE GROUND BY  
F-104D AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-022  
AIRCRAFT CODE# 045  
PROFILE VERSION# A  
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

	PAGE
AFTERBURNER 100% RPM	532-537
67% RPM	538-543
85% RPM	544-549
MILITARY 100% RPM	550-555

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY  
NORMALIZED SPL AT 250 FEET  
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE  
PERCEIVED NOISE LEVEL  
TONE-CORRECTED, PERCEIVED NOISE LEVEL  
A-WEIGHTED OVERALL SOUND LEVEL  
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL  
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

08 JAN 76

AEROSPACE MEDICAL RESEARCH LABORATORY  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF  
F-104D AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT  
F-104D AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT  
F-104D AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		) OMEGA 8.2																		
DISTANCE = 250 FEET		) TEST 74-004-022																		
		) RUN 01																		
NOISE SOURCE/SUBJECT:		) METEOROLOGY:																		
( F-104D AIRCRAFT		) TEMP = 59 F																		
( FNG. J79-GE-7		) BAR PRESS = 29.92 IN HG																		
( GROUND RUNUP		) PROFILE VERSION A																		
		) 08 JAN 76																		
		) PAGE C1																		
BAND CENTER		ANGLE (DEGREES)																		
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
50	90	92	91	92	93	95	94	95	96	97	98	101	106	115	118	117	105	95	85	
63	93	93	93	94	95	96	96	98	98	100	101	103	103	119	121	119	106	96	86	
80	95	97	95	96	97	98	98	99	100	102	102	106	112	122	124	120	109	99	89	
100	96	99	99	99	99	100	100	103	103	104	106	109	116	126	125	122	110	100	90	
125	100	102	101	101	100	101	102	103	104	106	109	112	117	127	129	124	109	99	89	
160	101	102	104	102	103	104	104	105	105	107	110	114	119	126	129	126	109	99	89	
200	100	100	101	100	100	102	102	103	104	105	109	113	120	124	124	122	106	96	-6	
250	100	101	99	100	101	102	102	103	106	108	111	114	122	127	122	119	104	94	84	
315	98	100	101	103	104	105	105	106	107	110	113	118	122	129	124	119	104	94	84	
400	96	100	104	102	103	104	105	105	107	111	116	121	124	123	118	99	89	79		
500	94	98	100	99	101	101	102	104	107	108	110	116	120	125	120	115	99	89	79	
630	97	99	101	102	103	102	106	106	106	108	110	117	121	124	121	116	98	88	78	
800	93	95	96	97	100	99	100	102	103	104	106	113	117	120	116	110	96	86	76	
1000	92	93	97	95	99	102	99	100	100	100	107	112	116	117	115	109	94	84	74	
1250	90	91	94	93	97	104	97	97	96	99	110	109	114	115	112	106	93	83	73	
1600	89	91	94	95	95	104	98	97	100	105	112	109	114	114	111	105	93	83	73	
2000	90	93	97	97	95	103	101	104	105	109	112	111	112	113	110	104	91	81	71	
2500	91	93	98	96	95	101	102	106	105	108	109	110	108	111	108	103	88	78	68	
3150	86	89	93	93	94	103	101	102	103	105	106	109	108	111	108	102	88	78	68	
4000	83	86	89	89	91	96	98	98	99	102	105	106	107	109	105	100	85	75	65	
5000	81	83	88	87	88	94	94	96	97	101	103	104	106	106	103	97	87	72	62	
6300	79	81	85	85	86	92	94	94	96	99	102	103	105	106	102	96	81	71	61	
8000	75	78	82	82	82	89	90	91	93	95	99	99	103	103	99	93	77	67	57	
10000	74	76	79	80	80	86	88	89	91	93	98	98	101	102	97	91	75	65	55	
OVERALL	109	111	112	112	113	115	115	116	117	119	122	126	131	136	136	132	117	107	97	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	OPERATIONS																			
	AFTERBURNER, MAX POWER																			
F-104D AIRCRAFT	100% RPM, SINGLE ENGINE																			
ENG. J79-GE-7	DEFLECTED FLOW																			
GROUND RUNUP																				
METEOROLOGY																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	118.6	120.6	123.8	123.2	123.5	127.9	128.1	130.1	130.3	133.2	136.3	137.7	140.7	145.2	142.5	138.3	123.1	113.1	103.0	
250	116.4	118.5	121.7	121.0	121.3	125.7	125.8	127.9	128.1	131.0	134.1	135.5	139.5	143.1	140.4	136.3	121.0	111.0	100.9	
315	114.2	116.2	119.4	119.1	123.5	123.5	125.6	125.9	128.7	131.8	133.2	136.3	140.9	138.2	134.1	118.9	108.9	98.7		
400	111.9	114.0	117.1	116.5	116.7	121.2	121.2	123.3	123.5	126.4	129.5	130.3	134.1	138.8	136.0	131.9	116.7	106.6	96.5	
500	109.6	111.6	114.7	114.1	114.3	118.8	118.8	120.9	121.1	124.0	127.1	128.4	131.8	136.5	133.8	129.6	114.3	104.3	94.1	
630	107.1	109.1	112.2	111.6	111.9	116.4	116.2	118.4	118.6	121.4	124.6	125.8	129.5	134.2	131.4	127.1	111.9	101.8	91.5	
800	104.4	106.5	109.6	109.0	109.4	113.8	113.6	115.7	115.9	118.7	122.0	123.2	127.0	131.8	129.0	124.5	109.3	99.2	88.9	
1000	101.7	103.9	106.8	106.2	106.8	111.0	110.7	112.9	113.1	115.9	119.3	120.5	124.5	129.3	126.5	121.8	106.7	96.5	86.0	
1250	98.7	101.1	103.8	103.3	104.1	108.1	107.7	109.8	110.1	112.9	116.3	117.9	121.7	126.3	123.3	118.9	103.7	93.5	82.9	
1600	95.6	98.2	100.9	100.2	101.2	104.9	104.4	106.6	106.8	109.6	113.2	114.9	118.9	123.2	120.9	116.0	100.5	90.2	79.6	
2000	92.4	95.2	97.9	97.1	98.2	101.5	100.8	103.0	103.2	106.2	109.7	111.8	115.9	119.8	117.9	113.0	97.1	86.7	76.1	
2500	88.9	91.3	94.1	93.4	94.6	97.7	97.1	99.0	99.4	102.4	106.0	108.4	112.3	116.4	114.2	109.2	93.4	82.9	72.4	
3150	85.2	87.3	89.8	89.7	90.9	93.6	93.4	94.5	95.1	98.1	101.8	104.8	109.7	112.5	110.1	105.2	89.2	78.7	68.2	
4000	80.8	82.9	85.4	85.4	86.7	89.2	89.1	90.2	90.6	93.4	97.2	100.6	104.5	108.2	105.8	100.9	84.5	74.1	63.4	
5000	76.1	78.2	80.7	80.7	82.0	84.3	84.3	85.4	85.8	88.2	92.3	95.9	99.8	103.5	101.1	96.1	79.7	69.2	58.2	
6300	71.1	73.2	75.7	75.7	77.0	79.0	79.3	80.3	80.7	82.9	87.0	91.0	95.0	98.7	96.2	91.2	74.7	64.1	52.8	
8000	67.1	69.1	71.6	71.6	73.0	74.1	75.1	76.2	76.7	78.6	82.0	87.0	91.1	95.0	92.5	87.5	73.9	60.2	48.5	
10000	62.7	64.9	67.2	67.2	69.7	69.5	70.6	71.7	72.4	74.3	77.4	82.7	86.9	91.1	88.5	83.6	67.0	55.9	43.5	
12500	57.8	60.0	62.3	62.3	63.9	64.4	65.8	66.8	67.8	69.8	72.7	76.0	82.3	86.9	84.2	79.3	62.7	51.2	38.0	
16000	52.3	54.6	56.9	57.0	58.5	58.8	60.3	61.5	62.7	64.6	67.6	72.9	77.4	82.4	79.5	74.6	57.9	45.6	31.3	
20000	46.0	48.0	51.4	50.9	52.5	53.0	54.4	55.4	57.1	59.0	62.0	67.2	72.1	77.4	74.6	69.7	52.6	39.5	20.5	
25000	38.4	42.2	45.4	43.9	45.7	46.3	47.4	48.6	50.3	52.7	55.7	61.2	66.3	71.9	69.6	64.8	46.4	31.7	9.8	

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY																			
	TEMP = 59 F PAR PRESS = 29.97 IN HG REL HUMID = 70 % DELTA N = 0.0 DR																			
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	119.8	120.6	124.4	124.5	127.9	129.5	131.3	130.3	133.2	136.3	137.7	140.7	145.8	142.5	139.5	123.1	113.1	103.0		
250	117.6	118.5	122.2	122.3	125.7	127.3	129.1	128.1	131.0	134.1	135.5	138.5	143.7	140.4	137.4	121.0	111.0	100.9		
315	115.4	116.2	120.0	120.1	123.5	125.0	126.6	125.9	128.7	131.8	133.2	136.3	141.5	138.2	135.3	118.9	108.9	98.7		
400	113.1	114.0	117.7	117.7	121.2	122.6	124.5	123.5	126.4	129.5	130.8	134.1	139.3	136.0	133.1	116.7	106.6	96.5		
500	110.7	111.6	115.3	115.3	118.8	120.2	122.1	121.1	124.0	127.1	128.4	131.8	137.1	133.8	130.7	114.3	104.3	94.1		
630	108.2	109.1	112.8	112.9	116.4	117.7	119.5	118.6	121.4	124.6	125.8	129.5	134.8	131.4	128.3	111.9	101.8	91.5		
800	105.6	106.5	110.2	110.4	113.8	115.0	116.9	115.9	118.7	122.0	123.2	127.0	132.4	129.0	125.7	109.3	99.2	88.9		
1000	102.8	103.9	107.4	107.5	111.0	112.2	114.1	113.1	115.9	119.3	120.5	124.5	129.3	126.5	122.9	106.7	96.5	86.0		
1250	99.8	101.1	104.4	104.5	108.1	109.1	111.0	110.1	112.9	116.3	117.6	121.7	126.9	123.8	120.0	103.7	93.5	82.9		
1500	96.7	98.2	101.5	101.4	105.2	105.9	107.7	106.8	109.6	113.2	114.9	118.9	123.8	120.9	117.2	100.5	90.2	79.6		
2000	93.6	95.2	98.5	98.3	99.2	101.5	102.3	104.2	106.2	109.7	111.8	115.9	120.4	117.9	114.1	97.1	86.7	76.1		
2500	90.1	91.3	94.6	94.7	95.6	97.7	98.6	100.2	99.4	102.4	106.0	108.4	112.3	110.2	110.4	93.4	82.9	72.4		
3150	86.3	87.3	90.4	91.0	91.9	93.6	94.8	95.7	95.1	98.1	101.8	104.8	108.7	113.1	110.1	106.4	89.2	78.7	68.2	
4000	81.7	82.9	85.9	86.4	87.5	89.2	90.2	91.1	90.6	93.4	97.2	100.6	104.5	108.7	105.8	84.5	74.1	63.4		
5000	76.8	79.2	81.0	81.4	82.6	84.3	85.1	86.1	85.8	88.2	92.3	95.9	99.8	103.9	101.1	96.8	79.7	69.2	58.2	
6300	71.5	73.2	75.9	76.2	77.4	79.0	79.8	80.8	80.7	82.9	87.0	91.0	95.0	98.9	96.2	91.7	74.7	64.1	52.8	
8000	67.3	69.1	71.7	71.8	73.2	74.1	75.4	76.4	76.7	78.6	82.0	87.0	91.1	95.1	92.5	87.7	70.9	60.2	48.5	
10000	62.7	64.8	67.2	67.2	69.7	69.5	70.8	71.7	72.4	74.3	77.4	82.7	86.9	91.1	88.5	83.6	67.0	55.9	43.5	
12500	57.8	60.0	62.3	62.3	63.9	64.4	65.8	66.8	67.8	69.5	72.7	78.0	82.3	86.9	84.2	79.3	62.7	51.2	38.0	
16000	52.3	54.6	57.0	57.0	58.5	58.8	60.3	61.5	62.7	64.6	67.6	72.9	77.4	82.1	79.5	74.6	57.9	45.5	31.3	
20000	46.0	48.0	51.4	50.9	52.5	53.0	54.4	55.4	57.1	59.0	62.0	67.2	72.1	77.4	74.6	69.7	52.6	39.5	20.5	
25000	38.4	42.2	45.4	43.9	45.7	46.3	47.4	48.3	50.9	52.7	55.7	61.2	66.3	71.9	69.6	64.8	46.4	31.7	9.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 4-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.9	107.2	110.1	109.8	110.9	114.7	113.9	115.6	116.1	116.9	122.7	124.8	128.5	131.9	129.0	124.2	108.6	38.6	88.6
250	102.9	105.1	108.0	107.7	108.8	112.6	111.8	113.4	114.0	116.8	120.5	122.6	126.4	129.8	126.9	122.1	106.5	96.5	86.5
315	100.7	102.9	105.8	105.5	106.5	110.4	109.6	111.2	111.8	114.5	118.4	120.5	124.3	127.7	124.9	120.0	104.5	94.5	84.5
400	98.6	100.8	103.7	103.4	104.5	108.2	107.3	109.0	109.6	112.3	116.1	118.3	122.2	125.6	122.7	117.9	102.3	92.3	82.3
500	96.4	98.6	101.4	101.1	102.3	105.9	105.1	106.7	107.3	110.0	113.8	116.1	120.0	123.5	120.6	115.7	100.1	90.1	80.1
630	94.1	96.3	99.2	98.9	100.1	103.6	102.7	104.3	104.9	107.6	111.5	113.9	117.8	121.3	118.4	113.5	97.9	87.9	77.9
800	91.8	94.0	96.8	96.6	97.8	101.2	100.3	101.9	102.5	105.1	109.1	111.6	115.5	119.1	116.1	111.2	95.5	85.5	75.5
1000	89.3	91.6	94.5	94.2	95.4	98.7	97.8	99.4	100.0	102.5	106.5	109.2	113.2	116.7	113.7	108.8	93.1	83.1	73.1
1250	86.8	89.1	92.0	91.6	93.0	96.1	95.2	96.7	97.3	99.9	103.9	106.7	110.7	114.2	111.2	106.2	90.4	80.4	70.4
1600	84.2	86.5	89.4	89.0	90.4	93.4	92.5	94.0	94.6	97.1	101.1	104.1	108.2	111.6	108.6	103.5	87.7	77.7	67.7
2000	81.4	83.9	86.7	86.3	87.8	90.5	89.8	91.1	91.8	94.2	98.2	101.5	105.6	108.9	105.9	100.8	84.8	74.8	64.8
2500	78.4	80.8	83.6	83.3	84.9	87.4	86.7	88.0	88.7	91.0	95.0	98.6	102.6	105.9	102.9	97.6	81.6	71.6	61.6
3150	75.2	77.5	80.3	80.0	81.7	84.0	83.4	84.6	85.3	87.5	91.6	95.4	99.4	102.6	99.5	94.2	78.2	68.2	58.2
4000	71.5	73.8	76.5	76.2	78.0	80.2	79.7	80.9	81.5	83.6	87.7	91.3	95.8	98.9	95.7	90.4	74.4	64.4	54.4
5000	67.4	69.5	72.3	72.0	73.9	76.0	75.5	76.6	77.3	79.2	83.5	87.6	91.7	94.7	91.5	86.1	70.2	60.2	50.2
6300	63.0	65.1	67.9	67.6	69.6	71.5	71.0	72.1	72.8	74.6	78.8	83.7	87.3	90.3	87.1	81.7	65.7	55.7	45.7
8000	59.2	61.3	64.0	63.7	65.9	67.1	67.2	68.2	69.0	70.6	74.5	79.5	83.5	86.7	83.4	78.1	62.0	52.0	42.0
10000	55.0	57.3	59.9	59.6	61.6	62.4	63.0	64.1	64.9	66.4	69.9	75.4	79.4	82.7	79.5	74.3	58.0	48.0	38.0
12500	50.5	52.9	55.5	55.2	57.0	57.4	58.5	59.6	60.4	62.0	65.0	70.9	74.9	78.4	75.2	70.1	53.7	43.7	33.7
16000	45.6	48.1	50.6	50.3	52.0	52.1	53.5	54.7	55.6	57.1	59.9	65.9	70.0	73.7	70.5	65.5	49.2	39.2	29.2
20000	40.2	42.8	45.2	44.9	46.5	46.4	48.0	49.2	50.2	51.8	54.4	60.4	64.6	68.5	65.5	60.6	44.4	34.4	24.4
25000	34.4	37.0	39.3	38.9	40.4	40.4	41.9	43.1	44.2	45.9	48.5	54.3	58.6	62.9	60.1	55.4	39.5	29.5	19.5

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.1	107.2	110.6	111.0	111.9	114.7	115.4	116.7	116.1	118.9	122.7	124.8	128.5	132.5	129.0	125.3	109.6	98.6	88.6
250	104.0	105.1	108.5	108.9	109.8	112.6	113.2	114.6	114.0	116.8	120.5	122.6	126.4	130.4	126.9	123.3	106.5	96.5	86.5
315	101.9	102.9	106.4	106.8	107.7	110.4	111.0	112.4	111.8	114.5	118.4	120.5	124.3	128.3	124.9	121.2	104.5	94.5	84.5
400	99.6	100.8	104.2	104.6	105.5	108.2	108.8	110.1	109.6	112.3	116.1	118.3	122.2	126.2	122.7	119.1	102.3	92.3	82.3
500	97.6	98.6	102.0	102.4	103.3	105.9	106.5	107.8	107.3	110.0	113.8	116.1	120.0	124.1	120.6	116.9	100.1	90.1	80.1
630	95.3	96.3	99.7	100.1	101.1	103.6	104.2	105.5	104.9	107.6	111.5	113.9	117.8	121.9	118.4	114.6	97.9	87.9	77.9
800	92.9	94.0	97.4	97.8	98.8	101.2	101.8	103.1	102.5	105.1	109.1	111.6	115.5	119.6	116.1	112.3	95.5	85.5	75.5
1000	90.5	91.6	95.0	95.4	96.5	98.7	99.3	100.5	100.0	102.6	106.5	109.2	113.2	117.3	113.7	109.9	93.1	83.1	73.1
1250	88.0	89.1	92.5	92.9	94.0	96.1	96.7	97.9	97.3	99.9	103.9	106.7	110.7	114.8	111.2	107.3	90.4	80.4	70.4
1600	85.3	86.5	89.9	90.3	91.5	93.4	94.0	95.2	94.6	97.1	101.1	104.1	108.2	112.2	108.6	104.7	87.7	77.7	67.7
2000	82.6	83.9	87.3	87.6	88.8	90.5	91.2	92.3	91.8	94.2	98.2	101.5	105.6	109.5	105.9	101.9	84.8	74.8	64.8
3150	79.6	80.8	84.2	84.5	85.9	87.4	88.2	89.2	88.7	91.0	95.0	98.6	102.6	106.5	102.9	98.8	81.6	71.6	61.6
4000	76.3	77.5	80.9	81.2	82.7	84.0	84.9	85.8	85.3	87.5	91.6	95.4	99.4	103.2	99.5	95.4	78.2	68.2	58.2
5000	72.4	73.8	77.2	77.4	78.9	80.2	80.9	81.8	81.5	83.6	87.7	91.8	95.8	99.3	95.7	91.3	74.4	64.4	54.4
6300	68.1	69.5	72.7	72.8	74.6	76.0	76.3	77.3	77.3	79.2	83.5	87.6	91.7	95.0	91.5	86.8	70.2	60.2	50.2
8000	63.4	65.1	68.1	68.1	70.0	71.5	71.6	72.6	72.8	74.5	78.8	83.3	87.3	90.5	87.1	82.2	65.7	55.7	45.7
10000	59.4	61.3	64.1	64.0	66.0	67.1	67.5	68.5	69.0	70.6	74.5	79.5	83.5	86.8	83.4	78.3	62.0	52.0	42.0
12500	55.0	57.3	59.9	59.6	61.6	62.4	63.0	64.1	64.9	66.4	69.9	75.4	79.4	82.7	79.5	74.3	58.0	48.0	38.0
16000	50.5	52.9	55.5	55.2	57.0	57.4	58.5	59.6	60.4	62.0	65.0	70.9	74.9	78.4	75.2	70.1	53.7	43.7	33.7
20000	45.6	48.1	50.6	50.3	52.0	52.1	53.5	54.7	55.6	57.1	59.9	65.9	70.0	73.7	70.5	65.5	49.2	39.2	29.2
25000	40.2	42.8	45.2	44.9	46.5	46.4	48.0	49.2	50.2	51.8	54.4	60.4	64.6	68.5	65.5	60.6	44.4	34.4	24.4
30000	34.4	37.0	39.3	38.9	40.4	40.4	41.9	43.1	44.2	45.3	48.5	54.3	58.6	62.9	60.1	55.4	39.5	29.5	19.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( DISTANCE = 250 FEET  
 ( NOISE SOURCE/SUBJECT#  
 ( F-104D AIRCRAFT  
 ( ENG. J79-GE-7  
 ( GROUND RUNUP  
 ( IDENTIFICATION:  
 ( OMEGA 8.2  
 ( TFST 74-004-022  
 ( RUN 01  
 ( AIRCRAFT CODE 045  
 ( OPERATION CODE 01003  
 ( PROFILE VERSION A  
 ( 08 JAN 76  
 ( PAGE J1

ANGLE	METEOROLOGY:										T=ALT	
	A=AL	P=PNLT	A=AL	P=PNLT	A=AL	P=PNLT	A=AL	P=PNLT	A=AL	P=PNLT		
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 045																		
F-1040 AIRCRAFT ( IDLE, 67% RPM ) TEMP = 59 F ) OPERATION CODE 91013																		
ENG. J79-GE-7 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN Hg ) PROFILE VERSION A																		
GROUND RUNUP ( ) REL HUMID = 70 % ) 30 DEC 75																		
( ) DELTA N = 0.0 DB ) PAGE C1																		
BAND CENTER																		
ANGLE (DEGREES)																		
FREQ (HZ)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	77	80	82	83	81	79	78	77	76	78	80	81	81	80	79	74	74
63	68	70	71	74	74	75	74	70	70	72	73	75	76	76	74	73	69	68
80	70	72	75	76	75	76	74	75	74	72	74	77	77	77	79	77	65	66
100	69	70	72	72	72	74	67	71	72	72	72	74	75	76	75	73	64	64
125	71	71	74	71	69	74	74	75	74	75	75	76	76	76	74	69	62	62
160	73	70	73	71	73	76	75	75	75	77	77	77	78	77	75	73	60	60
200	69	66	67	67	67	70	66	69	69	70	72	74	73	71	68	68	58	58
250	67	65	66	64	65	65	65	67	68	69	72	74	74	72	67	64	56	56
315	67	69	67	64	65	65	65	67	68	70	73	77	75	74	69	67	55	53
400	73	72	70	69	69	67	68	70	72	73	76	77	77	73	69	67	53	51
500	81	78	75	71	71	72	69	70	73	73	73	74	73	70	67	68	56	48
630	80	82	76	76	75	71	71	65	66	69	70	72	69	69	66	68	55	52
800	71	70	68	68	65	64	63	64	65	68	70	72	69	65	64	62	46	46
1000	69	69	66	64	64	63	62	63	63	65	68	67	64	61	60	59	44	44
1250	69	69	66	67	68	64	63	64	64	66	69	69	62	61	60	60	44	42
1600	73	74	72	72	78	73	72	72	69	66	68	63	63	65	64	70	54	47
2000	74	74	77	71	79	73	71	71	69	66	67	68	68	64	64	68	53	48
2500	77	77	80	73	79	71	69	67	68	66	65	67	65	61	64	63	51	49
3150	70	68	67	68	68	68	64	63	63	64	63	65	62	58	60	59	46	44
4000	68	66	67	68	69	67	63	62	62	65	64	67	64	60	60	59	45	43
5000	65	64	61	63	64	61	60	59	60	63	63	67	64	59	59	55	41	39
6300	62	62	60	62	63	62	58	58	60	63	65	67	64	58	58	54	40	39
8000	62	61	59	62	61	58	57	56	58	61	63	65	63	58	57	55	41	38
10000	57	57	54	57	58	52	51	52	54	56	59	59	57	53	55	54	38	34
OVERALL	68	67	67	66	68	65	64	64	64	65	66	67	67	67	67	64	56	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE 1 PERCEIVED NOISE LEVEL (PNL)																			
DISTANCE (FEET)	AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.7	100.3	98.5	101.3	97.8	101.0	96.7	94.9	94.7	94.6	94.5	95.4	97.4	96.1	93.0	92.3	92.5	78.8	76.8
250	96.4	98.0	96.2	99.1	95.6	98.8	94.4	92.3	92.4	92.3	92.2	93.2	95.0	93.9	90.7	90.0	90.2	76.5	74.5
315	96.1	95.7	94.0	96.8	93.2	96.4	92.1	90.0	90.1	90.0	89.9	91.0	92.7	91.5	88.5	87.6	87.9	74.2	72.1
400	93.6	93.4	91.6	94.4	90.8	94.1	89.7	87.7	87.8	87.6	87.5	88.6	90.2	89.3	86.1	85.2	85.5	71.9	69.7
500	91.3	91.9	89.1	91.9	88.3	91.0	87.2	85.2	85.3	85.1	85.0	86.2	87.8	86.9	83.7	82.7	83.1	69.3	67.2
530	88.8	88.4	86.6	89.3	85.7	89.0	84.7	82.7	82.8	82.5	82.4	83.7	85.3	84.4	81.2	80.1	80.5	66.7	64.5
800	85.1	85.7	83.9	86.6	83.0	86.3	82.0	80.0	80.1	79.8	79.6	81.1	82.7	81.3	78.6	77.3	77.9	63.9	61.7
1000	83.2	82.8	81.1	83.8	80.1	83.4	79.2	77.2	77.3	76.9	76.8	78.4	80.0	79.2	75.9	74.4	75.1	60.9	58.5
1250	80.2	79.8	78.3	80.7	77.0	80.4	76.2	74.2	74.3	73.8	73.9	75.6	77.1	76.3	73.1	71.3	72.1	57.6	54.9
1500	77.4	76.5	75.4	77.4	73.7	77.1	72.9	70.9	71.1	70.4	70.9	72.6	74.1	73.4	70.1	67.9	68.9	54.0	50.9
2000	74.3	73.0	72.3	73.7	69.9	73.4	69.4	67.5	67.7	66.7	67.7	69.4	70.9	70.2	66.9	64.5	65.4	49.9	46.2
2500	71.4	69.2	68.0	69.7	65.8	69.4	65.4	63.6	63.8	62.7	63.9	65.4	66.9	66.1	62.7	60.2	61.5	44.7	41.0
3150	67.1	65.6	64.4	65.1	61.8	65.0	61.1	59.3	59.5	58.2	59.5	60.8	62.3	61.2	58.1	55.6	57.1	34.2	34.2
4000	62.7	61.1	60.1	60.7	57.2	60.1	56.2	54.3	54.6	53.1	54.0	55.8	57.2	56.3	52.6	49.9	52.1	32.4	26.9
5000	57.8	56.1	55.1	55.7	51.0	54.8	50.5	48.9	49.2	47.2	49.3	50.6	51.8	50.3	46.6	43.5	46.1	24.2	13.8
6300	52.6	51.1	50.0	50.1	46.2	49.0	45.8	44.8	45.2	43.9	45.5	46.8	48.0	43.7	40.3	36.9	39.1	13.4	8.8
8000	48.2	46.8	45.6	45.1	41.1	42.0	37.5	36.1	35.8	35.5	37.3	39.3	41.1	38.2	34.8	31.4	33.1	12.6	7.6
10000	43.5	41.5	41.1	36.8	35.1	35.7	31.2	29.6	28.8	28.7	32.0	34.1	35.3	32.9	28.5	23.0	26.0	16.0	11.0
12500	37.5	35.1	34.7	29.8	27.9	27.3	22.7	19.5	18.4	18.3	20.9	22.9	24.2	21.3	18.0	11.3	7.0	6.1	6.1
15000	31.4	29.0	27.9	20.8	19.1	18.1	14.3	10.8	10.3	10.3	10.5	10.5	10.5	8.5	8.5	8.5	8.5	8.5	8.5
20000	25.3	21.5	19.0	13.9	7.7	8.9	7.0	2.1	0.3	0.1	7.1	6.8	10.5	8.5	8.5	8.5	8.5	8.5	8.5
25000	15.2	9.9	11.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

IDENTIFICATION:  
 ) OMEGA 8.2  
 ) TEST 74-004-021  
 ) RUN 01  
 ) AIRCRAFT CODE 043  
 ) OPERATION CODE 01013  
 ) PROFILE VERSION 1  
 ) 30 DEC 75  
 ) PAGE 01

METEORLOGY:  
 ) TEMP = 59 F  
 ) BAR PRESS = 29.92 IN HG  
 ) REL HUMID = 70 %  
 ) DELTA N = 0.0 DB

OPERATIONS:  
 ) IDLE, 67% RPM  
 ) SINGLE ENGINE

NOISE SOURCE/SUBJECT:  
 ) F-104D AIRCRAFT  
 ) ENG. J79-G2-7  
 ) GROUND RUNUP

TABLE 1. TIME-CORRECTED, PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	NOISE SOURCE/SUBJECT																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.9	102.4	101.0	100.0	99.0	103.4	98.4	96.2	96.3	95.2	95.2	96.1	97.4	97.6	93.5	92.9	94.3	80.8	78.5
250	101.7	100.0	98.7	101.6	97.6	101.1	90.1	93.9	94.1	92.9	92.9	93.9	95.0	95.4	91.3	90.6	92.0	78.5	76.2
315	99.4	97.7	96.5	99.3	95.2	98.8	88.8	91.6	91.0	90.8	90.6	91.6	92.7	93.1	89.0	88.3	89.7	75.1	73.9
400	97.0	95.3	94.1	96.9	92.8	96.4	86.4	89.3	89.4	88.2	88.2	89.3	90.2	90.8	86.7	85.8	87.3	73.7	71.4
500	94.6	92.9	91.6	94.5	90.5	93.3	83.3	86.2	86.8	85.7	85.7	86.9	87.8	88.4	84.3	83.3	84.9	71.3	68.9
630	92.0	90.3	89.1	91.9	87.7	91.4	81.4	84.3	84.4	83.1	83.1	84.3	85.3	85.9	81.8	80.7	82.3	68.6	66.3
800	89.3	87.6	86.4	89.2	85.0	88.7	78.7	81.6	81.6	80.4	80.4	81.6	82.7	83.3	79.2	77.9	79.7	65.9	63.4
1000	86.5	84.8	83.6	86.3	82.1	85.8	75.8	78.6	78.9	77.5	77.5	79.1	80.0	80.6	76.5	75.0	76.9	62.8	60.2
1250	83.5	81.8	80.6	83.3	79.1	82.7	72.7	75.5	75.8	74.4	74.4	76.2	77.1	77.8	73.7	71.9	73.9	59.5	56.7
1500	80.6	78.9	77.7	80.4	76.2	79.8	70.2	73.0	72.5	71.0	71.0	72.8	74.1	74.8	70.7	68.5	70.7	56.3	52.6
2000	77.6	75.9	74.7	77.4	73.2	76.8	67.2	70.0	69.1	67.4	67.4	70.0	70.9	71.6	67.4	65.2	67.2	51.8	47.9
2500	74.3	72.6	71.4	74.1	70.0	73.6	64.0	66.8	65.2	63.5	63.5	66.1	66.9	67.6	63.3	60.9	63.3	48.7	42.8
3150	70.3	68.6	67.4	70.1	66.0	69.6	59.0	61.8	60.2	58.5	58.5	61.1	62.3	63.0	58.6	56.2	58.9	46.5	35.9
4000	67.3	65.6	64.4	67.1	63.0	66.6	56.0	58.8	57.2	55.5	55.5	58.1	59.2	59.9	55.4	52.9	55.6	44.0	38.2
5000	64.3	62.6	61.4	64.1	60.0	63.6	53.0	55.8	54.2	52.5	52.5	55.1	56.2	56.9	52.4	50.0	52.7	41.5	36.7
6300	61.3	59.6	58.4	61.1	57.0	60.6	49.0	51.8	50.2	48.5	48.5	51.1	52.2	52.9	48.4	46.0	48.7	38.2	33.4
8000	58.3	56.6	55.4	58.1	54.0	57.6	46.0	48.8	47.2	45.5	45.5	48.1	49.2	49.9	45.4	43.0	45.7	34.8	30.0
10000	55.3	53.6	52.4	55.1	51.0	54.6	43.0	45.8	44.2	42.5	42.5	45.1	46.2	46.9	42.4	40.0	42.7	31.3	26.5
12500	52.3	50.6	49.4	52.1	48.0	51.6	40.0	42.8	41.2	39.5	39.5	42.1	43.2	43.9	39.4	37.0	39.7	27.3	22.5
15000	49.3	47.6	46.4	49.1	45.0	48.6	37.0	39.8	38.2	36.5	36.5	39.1	40.2	40.9	36.4	34.0	36.7	23.3	18.5
20000	46.3	44.6	43.4	46.1	42.0	45.6	34.0	36.8	35.2	33.5	33.5	36.1	37.2	37.9	33.4	31.0	33.7	19.3	14.5
25000	43.3	41.6	40.4	43.1	39.0	42.6	31.0	33.8	32.2	30.5	30.5	33.1	34.2	34.9	30.4	28.0	30.7	15.3	10.5
31500	40.3	38.6	37.4	40.1	36.0	39.6	28.0	30.8	29.2	27.5	27.5	30.1	31.2	31.9	27.4	25.0	27.7	11.3	6.5
40000	37.3	35.6	34.4	37.1	33.0	36.6	25.0	27.2	25.6	23.9	23.9	26.5	27.6	28.3	23.8	21.4	24.1	7.0	2.2
50000	34.3	32.6	31.4	34.1	30.0	33.6	22.0	24.2	22.6	20.9	20.9	23.5	24.6	25.3	20.8	18.4	21.1	2.2	0.0
63000	31.3	29.6	28.4	31.1	27.0	30.6	19.0	21.2	19.6	17.9	17.9	20.5	21.6	22.3	17.4	15.0	17.7	0.0	0.0
80000	28.3	26.6	25.4	28.1	24.0	27.6	16.0	18.2	16.6	14.9	14.9	17.5	18.6	19.3	14.4	12.0	14.7	0.0	0.0
100000	25.3	23.6	22.4	25.1	21.0	24.6	13.0	15.2	13.6	11.9	11.9	14.5	15.6	16.3	11.4	9.0	11.7	0.0	0.0
125000	22.3	20.6	19.4	22.1	18.0	21.6	10.0	12.2	10.6	8.9	8.9	11.5	12.6	13.3	8.6	6.2	8.9	0.0	0.0
150000	19.3	17.6	16.4	19.1	15.0	18.6	7.0	9.2	7.6	5.9	5.9	8.5	9.6	10.3	6.4	4.0	6.7	0.0	0.0

IDENTIFICATIONS  
 OMEGA 8.2  
 TEST 74-004-021  
 RUN 01  
 AIRCRAFT CODE 045  
 OPERATION CODE 01013  
 PROFILE VERSION A  
 30 DEC 75  
 PAGE E1

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA IN = 3.0 DB

OPERATIONS:  
 IDLE 67% RPM  
 SINGLE ENGINE

ANGLE (DEGREES)  
 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180



TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DWA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	NOISE SOURCE/SUBJECT																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.6	67.0	65.9	66.9	63.5	67.5	62.0	63.8	60.7	60.0	61.9	63.3	61.8	78.8	77.1	78.3	64.6	61.7	
250	65.4	64.9	63.8	64.8	61.3	65.3	60.5	62.0	59.8	57.8	73.8	73.3	79.7	76.7	75.0	76.2	62.4	59.6	
315	63.3	62.7	61.6	62.6	59.1	63.1	58.3	59.7	57.3	55.7	76.2	75.7	77.5	74.5	72.8	74.0	60.3	57.5	
400	61.1	60.5	59.5	60.3	56.3	60.3	55.0	56.4	54.1	52.4	73.9	73.4	75.4	72.4	70.6	71.8	58.1	55.3	
500	58.9	58.3	57.3	58.0	54.6	58.6	53.7	55.2	52.8	51.2	71.7	71.2	73.2	70.2	68.3	69.6	55.9	53.1	
630	56.6	56.0	55.0	55.6	52.2	56.2	51.4	52.9	50.5	48.8	69.4	68.9	70.9	67.8	66.0	67.3	53.6	50.7	
800	54.3	53.7	52.7	53.1	49.8	53.7	48.9	50.4	48.1	46.4	67.0	66.4	68.6	65.6	63.6	64.9	51.2	48.3	
1000	51.9	51.3	50.4	50.5	47.3	51.1	46.3	47.8	45.6	43.9	64.6	63.3	65.5	62.5	60.5	61.1	48.7	45.8	
1250	49.4	48.8	48.0	48.1	44.9	48.7	43.9	45.4	43.2	41.5	62.0	60.7	62.9	59.9	57.9	58.5	46.1	43.2	
1600	46.9	46.2	45.5	45.6	42.4	46.2	41.4	42.9	40.7	39.0	59.4	58.1	60.3	57.3	55.3	55.8	43.4	40.4	
2000	44.3	43.7	43.0	43.1	39.9	43.7	38.9	40.4	38.2	36.5	56.4	55.1	57.3	54.3	52.3	52.9	40.5	37.4	
2500	41.5	40.9	40.2	40.3	37.1	40.9	36.1	37.6	35.4	33.7	53.7	52.4	54.6	51.6	49.6	49.8	37.5	34.4	
3150	38.2	37.6	36.9	37.0	33.8	37.6	32.8	34.3	32.1	30.4	50.3	49.0	51.2	48.2	46.2	46.3	34.0	30.9	
4000	35.4	34.8	34.1	34.2	31.0	34.8	29.9	31.4	29.2	27.5	47.3	46.0	48.2	45.2	43.2	43.4	31.1	28.0	
5000	32.2	31.6	30.9	31.0	27.8	31.6	26.9	28.4	26.2	24.5	44.3	43.0	45.2	42.2	40.2	40.3	28.3	25.2	
6300	29.7	29.1	28.4	28.5	25.3	29.1	24.4	25.9	23.7	22.0	41.5	40.2	42.4	39.4	37.4	37.6	25.3	22.2	
8000	27.2	26.6	25.9	26.0	22.8	26.6	21.9	23.4	21.2	19.5	38.6	37.3	39.5	36.5	34.5	34.7	22.2	19.1	
10000	24.4	23.8	23.1	23.2	19.9	23.7	19.0	20.5	18.3	16.6	35.9	34.6	36.8	33.8	31.8	31.9	19.1	16.0	
12500	21.9	21.3	20.6	20.7	17.5	21.3	16.6	18.1	15.9	14.2	33.1	31.8	34.0	31.0	29.0	29.1	16.0	12.9	
16000	19.4	18.8	18.1	18.2	15.0	18.8	14.1	15.6	13.4	11.7	30.4	29.1	31.3	28.3	26.3	26.4	13.0	10.2	
20000	16.9	16.3	15.6	15.7	12.5	16.3	11.6	13.1	10.9	9.2	27.7	26.4	28.6	25.6	23.6	23.7	10.2	7.1	
25000	14.4	13.8	13.1	13.2	10.0	13.8	9.1	10.6	8.4	6.7	25.0	23.7	25.9	22.9	20.9	21.0	7.1	4.0	

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY																			
	OPERATIONS																			
F-1040 AIRCRAFT	TEMP = 59 F																			
ENG. J79-G2-7	BAR PRESS = 29.92 IN HG																			
GROUND RUNUP	REL HUMID = 71 %																			
	DELTA N = 1.0 DB																			
	IDENTIFICATION																			
	OMEGA 8.2																			
	TEST 74-084-021																			
	RUN 01																			
	AIRCRAFT CODE 045																			
	OPERATION CODE 01013																			
	PROFILE VERSION A																			
	30 DEC 75																			
	PAGE 61																			
DISTANCE (FEET)	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	90.8	89.0	86.4	83.5	81.5	79.3	77.7	75.5	73.4	71.2	69.0	66.8	64.6	62.4	60.3	58.1	56.0	53.8	51.7	49.6
250	88.7	86.9	84.3	81.3	79.3	77.1	75.0	72.8	70.7	68.5	66.4	64.2	62.1	59.9	57.8	55.6	53.5	51.4	49.2	47.1
315	86.5	84.7	82.1	79.1	77.1	75.0	72.8	70.7	68.5	66.4	64.2	62.1	59.9	57.8	55.6	53.5	51.4	49.2	47.1	45.0
400	84.3	82.5	80.0	77.0	75.0	72.8	70.7	68.5	66.4	64.2	62.1	59.9	57.8	55.6	53.5	51.4	49.2	47.1	45.0	42.9
500	82.1	80.3	77.8	74.8	72.8	70.7	68.5	66.4	64.2	62.1	59.9	57.8	55.6	53.5	51.4	49.2	47.1	45.0	42.9	40.8
630	79.8	78.0	75.5	72.5	70.5	68.4	66.3	64.2	62.1	59.9	57.8	55.6	53.5	51.4	49.2	47.1	45.0	42.9	40.8	38.7
800	77.5	75.7	73.2	70.2	68.2	66.1	64.0	61.9	59.8	57.7	55.6	53.5	51.4	49.2	47.1	45.0	42.9	40.8	38.7	36.6
1000	75.1	73.2	70.7	67.7	65.7	63.6	61.5	59.4	57.3	55.2	53.1	51.0	48.9	46.8	44.7	42.6	40.5	38.4	36.3	34.2
1250	72.7	70.8	68.3	65.3	63.3	61.2	59.1	57.0	54.9	52.8	50.7	48.6	46.5	44.4	42.3	40.2	38.1	36.0	33.9	31.8
1500	70.1	68.2	65.7	62.7	60.7	58.6	56.5	54.4	52.3	50.2	48.1	46.0	43.9	41.8	39.7	37.6	35.5	33.4	31.3	29.2
2000	67.5	65.6	63.1	60.1	58.1	56.0	53.9	51.8	49.7	47.6	45.5	43.4	41.3	39.2	37.1	35.0	32.9	30.8	28.7	26.6
2500	64.7	62.7	60.2	57.2	55.2	53.1	51.0	48.9	46.8	44.7	42.6	40.5	38.4	36.3	34.2	32.1	30.0	27.9	25.8	23.7
3150	61.4	59.4	56.9	53.9	51.9	49.8	47.7	45.6	43.5	41.4	39.3	37.2	35.1	33.0	30.9	28.8	26.7	24.6	22.5	20.4
4000	57.1	55.1	52.6	49.6	47.6	45.5	43.4	41.3	39.2	37.1	35.0	32.9	30.8	28.7	26.6	24.5	22.4	20.3	18.2	16.1
5000	52.1	50.1	47.6	44.6	42.6	40.5	38.4	36.3	34.2	32.1	30.0	27.9	25.8	23.7	21.6	19.5	17.4	15.3	13.2	11.1
6300	47.0	45.0	42.5	39.5	37.5	35.4	33.3	31.2	29.1	27.0	24.9	22.8	20.7	18.6	16.5	14.4	12.3	10.2	8.1	6.0
8000	42.8	40.7	38.2	35.2	33.2	31.1	29.0	26.9	24.8	22.7	20.6	18.5	16.4	14.3	12.2	10.1	8.0	5.9	3.8	1.7
10000	38.4	37.4	34.9	31.9	29.9	27.8	25.7	23.6	21.5	19.4	17.3	15.2	13.1	11.0	8.9	6.8	4.7	2.6	0.5	-1.6
12500	34.2	33.1	30.6	27.6	25.6	23.5	21.4	19.3	17.2	15.1	13.0	10.9	8.8	6.7	4.6	2.5	0.4	-1.7	-3.8	-5.9
15000	29.6	28.5	26.0	23.0	21.0	18.9	16.8	14.7	12.6	10.5	8.4	6.3	4.2	2.1	0.0	-2.1	-4.2	-6.3	-8.4	-10.5
20000	24.4	22.9	20.4	17.4	15.4	13.3	11.2	9.1	7.0	4.9	2.8	0.7	-1.4	-3.5	-5.6	-7.7	-9.8	-11.9	-14.0	-16.1
25000	18.5	16.8	14.3	11.3	9.3	7.2	5.1	3.0	0.9	-1.2	-3.3	-5.4	-7.5	-9.6	-11.7	-13.8	-15.9	-18.0	-20.1	-22.2



IDENTIFICATION:																			
NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
F-104 AIRCRAFT																			
LNG. J79-GL-7																			
GROUND RUNUP																			
OPERATION:																			
ENGINE RUNUP, 35% RPM																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
AIRCRAFT CODE 045																			
OPERATION CODE 01018																			
PROFILE VERSION A																			
30 DEC 75																			
PAGE 02																			
TEST 74-004-021																			
RUN 02																			
OMEGA 8.2																			
OVERALL																			
BAND CENTER	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	70	70	73	72	70	74	75	79	78	78	80	80	83	84	80	88	87	79	59
63	71	72	73	73	75	74	75	77	76	76	78	79	82	83	85	86	86	76	56
80	73	73	75	75	75	75	76	77	74	74	76	77	80	81	82	85	83	71	51
100	77	77	80	80	78	78	76	75	79	79	80	81	82	83	83	86	83	70	50
125	77	77	80	77	75	77	77	81	80	79	81	81	82	82	83	85	81	67	47
160	78	78	80	79	75	75	80	80	81	81	82	83	83	84	83	84	80	65	45
200	78	76	79	76	74	70	78	79	79	79	80	82	82	80	80	78	77	63	43
250	80	77	76	79	75	70	79	77	80	81	80	81	80	81	82	79	80	60	40
315	70	71	70	72	72	73	74	75	77	78	79	83	83	83	82	85	85	60	40
400	70	70	75	82	82	82	82	83	85	86	85	85	85	89	86	88	85	60	40
500	70	78	77	77	73	76	79	80	80	81	81	82	83	81	81	79	70	57	37
630	74	74	73	72	70	69	71	73	72	74	76	77	78	77	76	74	73	56	36
800	75	75	70	71	69	67	70	73	73	74	76	77	77	76	74	73	69	52	32
1000	72	71	66	69	65	63	68	70	69	70	72	72	73	72	70	69	65	49	29
1250	73	68	69	70	67	65	67	69	69	69	70	72	72	69	67	65	63	46	26
1600	74	70	71	74	67	67	68	70	68	68	70	70	72	69	67	66	64	45	25
2000	85	75	73	77	68	70	73	77	70	69	70	71	74	72	60	65	71	53	33
2500	88	79	76	79	72	77	71	74	71	68	69	69	72	70	66	67	55	35	35
3150	83	73	74	77	67	70	68	70	66	66	67	60	67	66	65	62	64	47	27
4000	79	73	72	78	67	69	69	71	69	67	68	63	63	66	66	63	64	53	33
5000	77	70	71	76	65	67	67	68	66	66	66	69	67	64	64	62	62	48	28
6300	70	68	68	74	63	65	64	65	65	65	68	68	67	64	63	61	61	43	23
8000	74	67	68	72	62	64	62	62	62	68	70	71	70	66	65	63	63	45	25
10000	70	62	63	67	58	59	58	60	60	62	65	66	67	63	61	59	58	41	21
OVERALL	93	88	89	90	88	88	89	90	91	91	92	92	94	94	94	95	93	82	62

XXX = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (F-ET)	ANGLE (DEGREES)																		
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	109.3	102.7	102.5	100.0	98.6	100.6	99.4	101.6	100.9	101.2	101.9	102.7	103.2	103.9	102.3	102.3	100.8	83.0	61.4
250	107.0	100.4	100.2	102.4	96.4	98.4	97.2	99.4	98.7	99.3	99.7	100.5	101.0	101.8	100.2	100.2	98.6	80.7	58.8
310	104.7	95.1	97.9	100.0	94.1	96.1	95.0	97.1	96.2	97.1	97.5	98.3	98.8	99.6	97.3	98.0	96.4	78.3	56.2
400	102.3	95.7	95.0	97.0	91.7	93.7	92.7	94.8	94.3	94.9	95.3	96.0	96.6	97.3	95.7	95.8	94.2	75.8	53.4
500	99.0	93.2	93.1	95.1	89.3	91.2	90.3	92.3	91.3	92.5	92.9	93.7	94.2	95.0	93.4	93.5	91.8	73.3	50.3
630	97.2	90.0	90.0	92.5	86.9	88.0	87.9	89.8	89.5	90.1	90.4	91.2	91.8	92.7	91.0	91.1	89.4	70.7	47.0
800	94.4	87.9	87.7	89.7	84.4	85.9	85.3	87.1	87.0	87.6	87.9	88.7	89.2	90.2	88.5	88.6	86.9	67.9	43.1
1000	91.5	85.0	84.7	86.7	81.7	83.1	82.7	84.3	84.3	85.0	85.3	86.1	86.6	87.6	85.9	86.0	84.3	65.0	38.5
1250	88.5	81.0	80.5	82.5	78.3	79.0	79.3	81.4	81.0	82.2	82.5	83.3	83.8	85.0	83.1	83.3	81.6	61.7	33.4
1500	84.9	78.5	78.2	80.0	76.1	76.7	77.0	78.5	78.7	79.4	79.7	80.4	80.9	82.2	80.3	80.5	78.7	58.1	26.7
2000	81.2	74.8	74.5	76.3	73.0	73.6	73.9	75.3	75.7	76.4	76.6	77.4	77.9	79.2	77.3	77.6	75.7	54.3	20.8
2500	77.0	70.7	70.4	72.1	69.0	69.6	69.9	71.4	71.8	72.5	72.7	73.5	73.9	75.4	73.4	73.7	71.8	49.6	11.2
3150	72.4	66.1	65.6	67.4	64.5	65.0	65.4	67.0	67.4	68.1	68.3	69.1	69.6	71.0	68.9	69.2	67.2	43.8	1.7
4000	67.1	60.9	60.3	62.2	59.4	59.9	60.3	62.0	62.3	63.1	63.3	64.1	64.8	66.0	63.9	64.1	62.0	35.1	
5000	61.3	55.0	54.9	56.6	53.7	54.1	54.9	56.9	56.7	57.5	57.8	58.5	59.7	60.4	58.2	58.4	56.3	27.4	
6300	55.0	49.2	49.1	50.4	48.0	48.4	49.4	51.0	50.9	51.7	52.5	53.0	54.0	54.7	52.3	52.4	50.0	16.2	
8000	48.3	45.1	44.2	45.4	43.4	43.0	44.9	47.1	46.0	47.7	48.3	48.9	50.4	50.8	48.2	48.4	46.0	4.9	
10000	41.0	39.0	38.0	39.8	37.5	37.3	39.3	41.6	41.2	42.0	43.0	44.1	45.6	46.4	43.4	43.9	40.4		
12500	34.0	33.2	31.3	32.7	31.7	31.6	32.9	35.5	36.1	37.0	37.5	38.5	39.8	41.2	38.3	38.6	35.5		
16000	26.3	27.0	25.2	25.8	25.9	25.9	26.7	29.3	30.1	31.5	31.6	32.8	33.6	35.7	32.6	33.4	30.1		
20000	14.6	15.9	15.6	15.9	17.8	18.7	18.4	21.1	23.4	25.0	25.1	26.2	26.8	29.7	26.6	26.6	23.6		
25000	3.2	5.9	6.0	6.5	7.1	8.5	7.0	11.4	14.4	16.5	16.5	17.1	17.8	21.9	17.0	18.2	13.8		

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)													IDENTIFICATION:							
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													OMEGA 8.2							
NOISE SOURCE/SUBJECT:													TEST 74-064-021							
OPERATION:													RUN 02							
ENGINE RUNUP, 85% KPM													AIRCRAFT CODE 045							
SINGLE ENGINE													OPERATION CODE 01019							
TEMP = 59 F													PROFILE VERSION A							
BAR PRESS = 29.92 IN HG													30 DEC 75							
KEL HUMID = 70 %													PAGE E2							
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	111.1	104.2	100.2	105.9	100.2	102.9	100.0	103.5	102.1	102.7	102.9	103.7	103.2	105.1	103.6	103.7	102.5	85.0	63.4	
250	108.9	102.0	101.9	103.0	98.0	100.6	98.3	101.3	99.9	100.5	100.7	101.5	101.0	102.9	101.5	101.6	100.4	82.6	60.8	
315	106.6	99.7	99.6	101.3	95.7	98.3	96.1	99.0	97.7	98.3	98.5	99.3	98.8	100.7	99.4	98.2	80.3	58.1		
400	104.2	97.3	97.3	98.9	93.3	96.0	93.9	96.7	95.5	96.1	96.2	97.0	96.6	98.5	97.1	95.9	77.8	55.4		
500	101.7	94.0	94.0	96.4	90.9	93.5	91.5	94.2	93.1	93.7	93.8	94.7	94.2	96.2	94.7	94.8	75.3	52.2		
630	99.0	92.2	92.1	93.7	88.5	90.9	89.0	91.7	90.7	91.3	91.4	92.2	91.8	93.8	92.3	92.4	72.7	49.0		
800	96.3	89.4	89.4	90.9	85.9	88.1	86.5	89.0	88.1	88.8	88.9	89.7	89.2	91.3	89.8	90.0	69.3	45.1		
1000	93.3	86.5	86.4	87.9	83.3	85.2	83.8	86.2	85.5	86.2	86.2	87.1	86.6	88.8	87.2	87.4	67.0	40.5		
1250	90.2	83.4	83.3	84.7	80.5	82.1	81.0	83.3	82.8	83.4	83.5	84.3	83.8	86.1	84.4	84.7	63.7	32.4		
1500	88.7	80.4	80.4	81.3	77.6	79.0	78.1	80.4	79.9	80.6	80.6	81.4	80.9	83.3	81.6	81.9	60.4	28.6		
2000	83.0	78.4	78.2	77.6	74.5	75.9	75.0	77.2	76.9	77.6	77.6	78.4	77.9	80.4	78.6	78.9	56.3	22.8		
2500	78.9	72.3	72.1	73.4	70.6	71.9	71.0	73.3	73.0	73.7	73.7	74.5	73.9	76.5	74.7	75.0	51.6	13.2		
3150	74.2	67.6	67.3	68.6	66.0	67.3	66.6	68.9	68.5	69.3	69.3	70.1	69.6	72.1	70.2	70.6	45.7	3.7		
4000	68.6	62.1	61.7	63.2	60.7	61.7	61.3	63.5	63.2	64.0	64.1	64.9	64.8	67.0	64.9	65.2	43.4	36.7		
5000	62.4	56.7	55.9	57.4	54.7	55.5	55.0	58.1	57.4	58.2	58.3	59.1	59.7	61.1	59.3	59.2	38.6	28.6		
6300	55.7	50.0	49.8	50.9	48.6	48.8	49.9	52.4	51.4	52.2	52.9	53.4	54.6	55.1	52.8	52.9	33.1	16.3		
8000	48.7	45.4	44.5	45.4	43.7	43.4	45.1	47.5	46.8	47.9	48.5	49.0	50.4	51.0	48.5	48.7	26.6	13.8		
10000	41.0	39.6	38.0	39.8	37.5	37.3	39.3	41.6	41.2	42.6	43.0	44.1	45.6	46.4	43.4	43.9	21.9	13.8		
12500	34.6	33.2	31.3	32.7	31.7	31.6	32.5	35.5	36.1	37.6	37.5	38.5	39.8	41.2	38.3	38.6	18.2	13.8		
16000	26.3	27.0	25.2	26.8	25.9	25.8	26.7	29.3	30.1	31.5	31.6	32.8	33.6	35.7	32.6	33.4	13.8	13.8		
20000	14.8	16.9	15.6	18.9	17.8	18.7	18.4	21.1	23.4	25.0	25.1	26.2	26.8	29.7	26.6	26.6	10.4	13.8		
25000	3.2	8.9	6.0	8.5	7.1	8.5	7.6	11.4	14.4	16.5	15.5	17.1	15.8	21.9	17.0	18.2	7.0	13.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 4-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY:																			
	TEMP = 59 F																			
F-104D AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG. J79-GL-7	WIND VELOCITY = 70 K																			
GROUND RUNUP	DELTA N = 0.0 DB																			
IDENTIFICATION:																				
OMEGA 6.2																				
TEST 74-004-021																				
RUN 02																				
AIRCRAFT CODE 045																				
OPERATION CODE 01018																				
PROFILE VERSION A																				
30 DEC 75																				
PAGE F2																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	77.6	71.1	70.4	72.7	68.9	69.6	71.7	71.4	72.3	72.6	73.2	74.1	74.8	72.9	72.8	70.8	70.8	51.5	31.5	
1250	74.6	68.4	67.7	69.3	66.5	67.3	69.2	69.0	69.9	70.2	70.9	71.6	72.5	70.5	70.5	68.4	68.4	48.9	28.9	
1600	71.5	65.7	64.9	67.0	64.0	64.4	66.1	66.0	67.6	67.8	68.5	69.2	70.1	68.1	68.1	66.0	66.0	46.1	26.1	
2500	68.1	62.8	62.0	64.0	61.4	61.7	62.2	64.0	64.1	65.1	65.3	66.0	67.7	65.6	65.7	63.5	63.5	43.1	23.1	
3150	64.4	59.0	58.7	60.5	58.2	58.3	59.0	60.8	61.9	62.1	62.8	63.5	64.3	62.3	62.3	60.0	60.0	39.8	19.8	
4000	61.4	56.1	55.9	58.0	54.5	54.4	55.3	57.2	57.1	58.2	58.6	59.2	60.0	58.0	58.4	56.2	56.2	36.1	16.1	
5000	58.9	52.2	50.9	52.4	50.4	50.1	51.2	53.2	53.1	54.1	54.6	55.2	56.1	54.4	54.2	51.8	51.8	32.0	12.0	
6000	56.0	48.4	47.0	48.9	47.3	47.3	48.7	48.5	49.6	49.6	50.2	50.9	51.8	49.3	49.4	47.0	47.0	27.6	7.6	
8000	45.0	38.4	37.3	39.0	37.8	38.8	40.1	40.1	41.3	41.3	42.7	42.7	43.7	41.0	41.0	38.8	38.8	19.5	3.0	
10000	38.0	32.5	31.9	34.9	34.0	33.2	34.8	34.6	36.7	37.0	38.3	39.0	39.3	38.2	37.7	35.2	35.2	15.8	1.8	
12500	31.2	26.3	25.7	29.7	29.0	28.2	30.7	30.4	32.7	33.5	34.2	34.9	35.7	34.3	33.8	31.4	31.4	11.9	1.9	
16000	26.1	21.3	20.7	24.7	24.0	23.2	26.3	26.0	28.4	29.4	29.7	30.4	31.1	29.3	29.7	27.2	27.2	7.9	0.9	
20000	20.7	15.9	15.2	19.2	18.5	17.7	21.4	21.1	23.6	24.5	24.7	25.5	26.1	24.9	25.1	22.7	22.7	3.9	0.9	
25000	14.0	11.1	10.4	14.0	13.3	12.5	16.0	15.7	18.1	19.1	19.2	20.0	20.6	19.3	19.9	17.7	17.7	0.0	0.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)											IDENTIFICATION							
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>190
200	90.7	89.2	88.8	91.1	86.0	87.9	86.7	89.4	88.0	88.7	88.8	89.5	89.4	90.9	89.3	89.0	87.6	69.4	49.4
250	94.4	87.0	86.6	89.9	83.9	85.7	84.5	87.3	85.9	86.0	86.7	87.4	87.3	88.9	87.2	87.0	85.5	67.2	47.2
315	92.2	84.8	84.4	86.6	81.8	83.5	82.4	85.1	83.0	84.5	84.6	85.3	85.2	86.8	85.1	84.9	83.4	65.1	45.1
400	89.8	82.5	82.1	84.2	79.6	81.3	80.2	82.9	81.0	82.4	82.5	83.2	83.0	84.7	83.0	82.8	81.3	62.9	42.9
500	87.4	80.1	79.7	81.8	77.4	79.1	78.0	80.7	78.4	79.2	79.3	80.3	80.9	82.6	80.9	80.7	79.2	60.7	40.7
630	84.8	77.7	77.3	79.2	75.1	76.7	75.7	78.4	76.2	76.8	76.8	78.1	78.6	80.4	78.7	78.6	77.0	58.3	38.3
800	82.2	75.2	74.8	76.6	72.8	74.3	73.4	76.0	74.9	75.8	75.8	76.5	76.4	78.2	76.5	76.4	74.8	56.0	36.0
1000	79.4	72.7	72.2	73.9	70.5	71.8	71.0	73.6	72.6	73.5	73.5	74.2	74.1	76.0	74.2	74.2	72.5	53.5	33.5
1250	76.5	70.0	69.4	71.1	68.0	69.3	68.5	71.1	70.2	71.1	71.1	71.9	71.6	73.7	71.0	71.9	70.1	50.8	30.8
1500	73.3	67.2	66.6	68.2	65.5	66.7	65.9	68.6	67.9	68.8	68.7	69.5	69.2	71.3	69.4	69.5	67.7	48.1	28.1
2000	69.9	64.3	63.7	65.2	63.0	64.3	63.4	65.9	65.3	66.3	66.2	67.0	66.5	68.6	66.9	67.1	65.2	45.1	25.1
2500	66.3	61.2	60.4	61.7	59.8	60.5	60.1	62.7	62.0	63.1	63.1	63.8	63.5	65.2	63.0	63.6	61.8	41.8	21.8
3150	62.2	57.7	56.7	57.9	56.1	56.8	56.4	59.1	58.3	59.4	59.5	60.2	60.0	61.7	59.9	59.8	57.9	38.1	19.1
4000	57.4	53.5	52.2	53.4	51.7	51.9	52.2	54.7	54.0	55.1	55.4	56.0	56.1	57.3	55.5	55.2	53.2	33.6	13.6
5000	52.1	48.9	47.4	48.5	46.8	46.8	47.4	49.9	49.2	50.3	50.8	51.4	51.8	52.4	50.7	50.2	48.0	29.8	9.8
6300	48.5	44.1	42.3	43.4	41.9	41.3	42.5	44.9	44.3	45.4	45.4	46.6	47.2	47.4	45.8	45.1	42.8	23.8	3.8
8000	41.2	39.9	38.2	39.2	38.1	37.3	38.8	40.8	40.3	41.7	42.3	42.9	43.7	43.8	42.2	41.5	39.1	19.9	
10000	36.0	35.5	33.9	34.9	34.0	33.2	34.8	36.6	36.7	37.8	38.3	39.0	39.8	39.9	38.2	37.7	35.2	15.8	
12500	31.2	31.1	29.7	30.7	30.0	29.2	30.7	32.4	32.7	33.8	34.2	34.9	35.7	35.9	34.3	33.8	31.4	11.9	
16000	26.1	26.3	25.1	26.1	25.6	24.9	26.3	27.9	28.3	29.4	29.7	30.4	31.1	31.0	29.9	29.7	27.2	7.9	
20000	23.7	23.9	22.1	23.2	23.7	23.2	24.4	25.9	26.4	27.5	27.8	28.5	29.1	28.9	25.1	25.1	22.7	3.9	
25000	19.8	19.1	18.0	19.3	19.3	18.0	19.0	17.4	18.0	19.1	19.2	20.0	20.6	21.5	19.9	20.0	17.7	.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-105 AIRCRAFT  
 ENGINE RUNUP, 65% RPM SINGLE ENGINE  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA M = 0.0 DB  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-021  
 RUN J2  
 AIRCRAFT CODE 045  
 OPERATION CODE J1018  
 PROFILE VERSION A  
 30 DEC 75  
 PAGE J2

ANGLE	NOISE LEVEL IN PNDB OR DBA											
	10	20	30	40	50	60	70	80	90	100	110	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
170												
180												

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

IDENTIFICATION:																			
NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 045																			
( F-104 AIRCRAFT ) TEMP = 59 F ) OPERATION CODE 01004																			
( ENG. J79-GE-7 ) MILITARY POWER, 100% RPM ) BAK PRESS = 29.92 IN HG ) PROFILE VERSION A																			
( GROUND RUNUP ) SINGLE ENGINE ) REL HUMID = 73 % ) 30 DEC 75																			
( ) DELTA N = 0.03 ) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	79	79	80	79	81	81	83	82	83	85	89	89	95	101	106	108	105	90	70
63	81	81	81	83	85	83	86	87	87	89	92	93	100	104	109	113	107	90	70
80	82	83	83	84	84	84	87	89	89	91	94	96	103	107	112	115	109	91	71
100	82	85	86	86	87	88	90	91	93	93	96	99	105	111	115	120	112	94	74
125	80	87	87	89	89	90	92	94	94	97	99	101	107	113	115	121	115	91	71
150	80	80	80	81	83	82	85	87	89	91	94	100	104	111	118	121	117	94	74
200	80	80	80	80	80	80	82	84	86	88	91	93	103	109	117	121	115	90	70
250	87	87	88	88	91	91	91	92	94	97	99	102	108	113	118	121	115	91	71
315	82	89	91	91	90	92	92	94	96	97	101	104	111	117	121	121	117	90	70
400	87	93	94	93	93	94	95	95	95	95	100	103	107	112	117	121	116	87	67
500	88	88	92	93	94	94	95	95	95	97	105	108	111	115	119	115	113	85	65
630	87	88	92	93	94	93	93	95	95	97	102	105	110	112	117	117	114	95	65
800	90	87	90	95	95	97	97	100	103	103	104	107	109	112	114	113	111	82	62
1000	85	87	90	94	98	97	95	98	98	99	102	104	108	109	114	113	110	81	61
1250	80	84	90	91	95	95	94	93	94	99	100	102	104	105	109	108	105	78	58
1600	79	82	89	91	92	92	94	100	100	101	103	104	104	104	104	100	101	78	58
2000	70	79	87	89	93	95	93	99	100	100	103	103	101	103	107	104	99	77	57
2500	75	78	86	87	92	92	91	93	99	99	102	102	100	101	105	105	100	75	55
3150	68	73	81	84	84	83	87	85	87	90	98	97	98	98	100	105	99	72	52
4000	67	72	81	83	83	87	87	92	92	96	99	97	99	100	102	104	99	71	51
5000	64	70	76	80	82	84	84	92	92	95	94	96	90	97	99	99	93	68	48
6300	62	68	76	77	83	82	82	90	90	90	94	93	94	95	98	99	89	66	46
8000	60	68	75	75	81	81	80	88	88	90	91	91	92	94	97	97	87	64	44
10000	59	65	71	71	78	78	78	82	83	85	87	87	83	80	84	84	83	59	39
OVERALL	98	100	103	103	105	109	105	110	111	113	114	115	121	126	128	129	125	102	82

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)													IDENTIFICATION:											
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													OMEGA	TEST	RUN									
NOISE SOURCE/SUBJECTS	AIRCRAFT	ENGINE	GRJUND RUNUP	OPERATIONS									METEOROLOGY:	TEMP	BAR PRESS	REL HUMID	DELTA N	AIRCRAFT CODE	OPERATION CODE	PROFILE VERSION	VERSION	PAGE		
				MILITARY POWER, 100% RPM	SINGLE ENGINE	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)	ANGLE (DEGREES)											ANGLE (DEGREES)	
(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	(	
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180						
200	106.8	109.8	113.8	114.9	118.7	118.8	118.3	123.8	125.0	127.2	128.5	128.7	130.8	134.6	138.0	138.2	133.9	108.4	87.8					
250	107.7	111.6	112.7	116.5	116.6	116.1	121.6	122.7	122.7	122.7	126.3	126.5	128.7	132.5	135.9	136.0	131.7	106.2	85.6					
315	102.6	109.5	109.4	110.5	114.2	114.3	113.8	119.3	120.5	122.7	124.0	124.3	126.5	130.3	133.7	133.9	129.6	104.1	83.3					
400	100.3	107.1	108.2	111.9	112.0	111.5	117.0	118.1	120.4	121.7	121.9	124.3	128.1	131.5	131.7	127.5	101.9	81.0						
500	98.1	101.1	104.7	105.8	109.5	109.6	109.1	114.6	115.7	117.9	119.3	119.5	122.0	125.9	129.3	129.5	125.2	99.6	78.7					
630	95.7	98.7	102.2	103.3	107.0	107.2	106.5	112.0	113.2	115.4	116.7	117.0	119.7	123.5	127.0	127.1	122.9	97.2	75.2					
800	93.2	98.3	99.7	100.7	104.5	104.8	103.9	109.3	110.5	112.7	114.1	114.4	117.2	121.1	124.6	124.7	120.5	94.8	73.7					
1000	90.7	93.7	97.1	98.0	101.8	101.8	101.1	106.5	107.7	109.9	111.2	111.6	114.7	118.5	122.1	122.3	118.1	92.1	71.0					
1250	87.9	91.1	94.3	95.2	98.9	98.9	98.2	103.4	104.6	106.9	108.3	108.6	112.0	116.0	119.5	119.6	115.5	89.1	67.9					
1600	85.1	88.3	91.5	92.2	95.8	95.7	95.1	100.3	101.4	103.6	105.1	105.7	109.1	113.2	116.7	116.8	112.7	85.8	64.6					
2000	82.6	85.3	88.5	89.1	92.6	92.4	91.7	96.9	98.1	100.3	101.7	102.6	106.2	110.2	113.8	113.9	109.8	82.5	61.3					
2500	78.7	81.6	84.4	85.7	89.2	88.7	88.2	93.3	94.4	96.1	98.0	99.3	102.4	106.5	110.1	110.1	106.0	78.6	57.1					
3150	75.1	77.4	81.3	82.1	85.6	84.8	84.3	89.3	90.4	92.0	93.8	95.4	98.4	102.3	106.0	106.0	101.9	74.3	52.4					
4000	71.1	72.9	77.3	78.1	81.6	80.7	80.3	84.9	86.0	87.6	89.3	91.1	94.1	97.7	101.6	101.2	97.6	69.8	47.2					
5000	68.7	68.4	72.9	73.7	77.3	76.2	75.8	81.0	81.1	82.7	84.5	86.4	89.3	93.0	96.3	92.9	84.9	41.3						
6300	62.4	63.6	68.1	68.8	72.4	71.3	70.9	74.7	76.0	77.8	79.4	81.6	84.6	88.2	92.1	91.5	88.1	59.7	34.3					
8000	57.7	59.4	63.8	64.5	68.0	66.9	66.5	71.1	74.5	73.3	75.0	77.5	80.7	84.5	88.4	87.6	84.3	55.6	23.2					
10000	52.9	54.7	59.0	59.7	63.2	62.0	61.6	65.2	68.8	68.4	70.2	73.3	76.5	80.5	84.5	83.5	80.3	50.9	20.0					
12500	47.6	49.4	53.6	54.2	57.8	56.5	56.8	59.9	61.5	63.2	65.4	68.6	72.1	76.2	80.2	79.2	75.8	45.9	10.9					
16000	41.7	43.8	47.8	48.2	52.1	50.4	51.4	54.4	56.1	57.7	60.1	63.5	67.2	71.5	75.2	74.8	70.9	40.0	1.3					
20000	35.0	37.7	41.1	41.5	45.7	43.8	45.1	48.3	50.1	51.9	54.2	57.8	61.8	66.4	70.3	70.0	65.8	33.3						
25000	26.0	29.8	32.7	33.2	37.9	35.6	37.5	40.6	42.8	44.8	47.5	51.5	55.7	60.6	64.5	64.7	60.4	23.5						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TUNED-CORRECTED, PERCEIVED NOISE LEVEL (PNDR)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
DISTANCE (FEET)	ANGLE (DEGREES)										METEOROLOGICAL DATA				IDENTIFICATION: OMEGA 8.2 TEST 74-704-021 RUN 03 AIRCRAFT CODE 045 OPERATION CODE 01004 PROFILE VERSION A 30 DEC 75 PAGE E3			
	10	20	30	40	50	60	70	80	90	100	110	120	130	140		150	160	170
200	108.0	110.0	112.0	114.0	116.0	118.0	120.0	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0
250	105.0	107.0	109.0	111.0	113.0	115.0	117.0	119.0	121.0	123.0	125.0	127.0	129.0	131.0	133.0	135.0	137.0	139.0
315	103.0	105.0	107.0	109.0	111.0	113.0	115.0	117.0	119.0	121.0	123.0	125.0	127.0	129.0	131.0	133.0	135.0	137.0
500	99.0	101.0	103.0	105.0	107.0	109.0	111.0	113.0	115.0	117.0	119.0	121.0	123.0	125.0	127.0	129.0	131.0	133.0
630	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	122.0	124.0	126.0	128.0	130.0
800	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	122.0	124.0	126.0	128.0
1000	91.0	93.0	95.0	97.0	99.0	101.0	103.0	105.0	107.0	109.0	111.0	113.0	115.0	117.0	119.0	121.0	123.0	125.0
1250	89.0	91.0	93.0	95.0	97.0	99.0	101.0	103.0	105.0	107.0	109.0	111.0	113.0	115.0	117.0	119.0	121.0	123.0
1500	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
2000	83.0	85.0	87.0	89.0	91.0	93.0	95.0	97.0	99.0	101.0	103.0	105.0	107.0	109.0	111.0	113.0	115.0	117.0
2500	79.0	81.0	83.0	85.0	87.0	89.0	91.0	93.0	95.0	97.0	99.0	101.0	103.0	105.0	107.0	109.0	111.0	113.0
3150	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0
4000	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0
5000	67.0	69.0	71.0	73.0	75.0	77.0	79.0	81.0	83.0	85.0	87.0	89.0	91.0	93.0	95.0	97.0	99.0	101.0
6300	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0
8000	58.0	60.0	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0
10000	52.0	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0
12500	47.0	49.0	51.0	53.0	55.0	57.0	59.0	61.0	63.0	65.0	67.0	69.0	71.0	73.0	75.0	77.0	79.0	81.0
15000	41.0	43.0	45.0	47.0	49.0	51.0	53.0	55.0	57.0	59.0	61.0	63.0	65.0	67.0	69.0	71.0	73.0	75.0
20000	35.0	37.0	39.0	41.0	43.0	45.0	47.0	49.0	51.0	53.0	55.0	57.0	59.0	61.0	63.0	65.0	67.0	69.0
25000	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	92.9	90.0	87.2	83.0	79.3	75.6	72.0	68.5	65.0	61.5	58.0	54.5	51.0	47.5	44.0	40.5	37.0	33.5	30.0
250	93.6	90.9	88.1	84.0	80.0	76.2	72.5	68.8	65.1	61.4	57.7	54.0	50.3	46.6	42.9	39.2	35.5	31.8	28.1
315	91.7	89.3	86.4	82.5	78.7	75.0	71.3	67.6	63.9	60.2	56.5	52.8	49.1	45.4	41.7	38.0	34.3	30.6	26.9
400	89.6	87.2	84.2	80.5	76.8	73.1	69.4	65.7	62.0	58.3	54.6	50.9	47.2	43.5	39.8	36.1	32.4	28.7	25.0
500	87.5	85.1	82.1	78.4	74.7	71.0	67.3	63.6	59.9	56.2	52.5	48.8	45.1	41.4	37.7	34.0	30.3	26.6	22.9
530	87.3	84.9	81.9	78.2	74.5	70.8	67.1	63.4	59.7	56.0	52.3	48.6	44.9	41.2	37.5	33.8	30.1	26.4	22.7
800	83.1	80.7	77.7	74.0	70.3	66.6	62.9	59.2	55.5	51.8	48.1	44.4	40.7	37.0	33.3	29.6	25.9	22.2	18.5
1000	80.8	78.4	75.4	71.7	68.0	64.3	60.6	56.9	53.2	49.5	45.8	42.1	38.4	34.7	31.0	27.3	23.6	19.9	16.2
1250	78.4	76.0	73.0	69.3	65.6	61.9	58.2	54.5	50.8	47.1	43.4	39.7	36.0	32.3	28.6	24.9	21.2	17.5	13.8
1500	76.0	73.6	70.6	66.9	63.2	59.5	55.8	52.1	48.4	44.7	41.0	37.3	33.6	29.9	26.2	22.5	18.8	15.1	11.4
2000	73.4	71.0	68.0	64.3	60.6	56.9	53.2	49.5	45.8	42.1	38.4	34.7	31.0	27.3	23.6	19.9	16.2	12.5	8.8
2500	71.7	69.3	66.3	62.6	58.9	55.2	51.5	47.8	44.1	40.4	36.7	33.0	29.3	25.6	21.9	18.2	14.5	10.8	7.1
3150	69.6	67.2	64.2	60.5	56.8	53.1	49.4	45.7	42.0	38.3	34.6	30.9	27.2	23.5	19.8	16.1	12.4	8.7	5.0
4000	67.2	64.8	61.8	58.1	54.4	50.7	47.0	43.3	39.6	35.9	32.2	28.5	24.8	21.1	17.4	13.7	10.0	6.3	2.6
5000	65.8	63.4	60.4	56.7	53.0	49.3	45.6	41.9	38.2	34.5	30.8	27.1	23.4	19.7	16.0	12.3	8.6	4.9	1.2
6300	64.3	61.9	58.9	55.2	51.5	47.8	44.1	40.4	36.7	33.0	29.3	25.6	21.9	18.2	14.5	10.8	7.1	3.4	-0.3
8000	62.9	60.5	57.5	53.8	50.1	46.4	42.7	39.0	35.3	31.6	27.9	24.2	20.5	16.8	13.1	9.4	5.7	2.0	-1.7
10000	61.4	59.0	56.0	52.3	48.6	44.9	41.2	37.5	33.8	30.1	26.4	22.7	19.0	15.3	11.6	7.9	4.2	0.5	-3.2
12500	60.0	57.6	54.6	50.9	47.2	43.5	39.8	36.1	32.4	28.7	25.0	21.3	17.6	13.9	10.2	6.5	2.8	-0.9	-6.6
15000	58.6	56.2	53.2	49.5	45.8	42.1	38.4	34.7	31.0	27.3	23.6	19.9	16.2	12.5	8.8	5.1	1.4	-2.3	-9.0
20000	57.2	54.8	51.8	48.1	44.4	40.7	37.0	33.3	29.6	25.9	22.2	18.5	14.8	11.1	7.4	3.7	0.0	-3.7	-11.7
25000	55.8	53.4	50.4	46.7	43.0	39.3	35.6	31.9	28.2	24.5	20.8	17.1	13.4	9.7	6.0	2.3	-1.4	-5.1	-14.4

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, 1-WEIGHTED OVERALL SOUND LEVEL (D3A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	97.0	98.7	102.6	103.5	108.5	106.7	105.9	111.0	113.1	114.9	115.4	116.2	119.7	122.0	125.5	125.8	121.6	95.1	75.1
250	94.9	96.6	100.5	101.4	106.4	104.6	103.8	108.8	110.9	112.8	113.2	114.0	116.6	119.9	123.4	123.7	119.6	93.1	73.1
315	92.9	94.5	98.4	99.3	104.3	102.5	101.6	106.6	108.7	110.6	111.0	111.9	114.5	117.9	121.3	121.6	117.5	91.0	71.0
400	90.8	92.4	96.2	97.1	102.1	100.3	99.5	104.4	106.5	108.3	108.8	109.7	112.4	115.7	119.2	119.5	115.4	88.9	68.9
500	88.6	90.3	94.1	94.9	99.9	98.1	97.3	102.1	104.2	106.0	106.5	107.5	110.2	113.6	117.1	117.4	113.3	86.7	66.7
630	86.4	88.1	91.8	92.7	97.6	95.8	95.0	99.8	101.9	103.7	104.2	105.3	108.0	111.4	114.9	115.2	111.1	84.4	64.4
800	84.2	85.8	89.6	90.4	95.3	93.4	92.7	97.3	99.4	101.2	101.7	103.0	105.7	109.2	112.7	113.0	106.8	82.1	62.1
1000	81.4	83.6	87.2	88.0	92.9	91.0	90.3	94.9	96.9	98.7	99.2	100.6	103.4	106.9	110.4	110.7	106.5	79.7	59.7
1250	79.5	81.2	84.8	85.6	90.5	88.5	87.8	92.3	94.3	96.1	96.7	98.1	101.0	104.4	108.0	108.3	104.1	77.1	57.1
1600	77.1	78.7	82.3	83.1	87.9	85.9	85.2	89.6	91.6	93.4	93.9	95.6	98.5	101.9	105.5	105.7	101.6	74.4	54.4
2000	74.6	76.2	79.7	80.4	85.2	83.2	82.5	86.7	88.8	90.5	91.1	92.9	96.0	99.3	103.0	103.2	99.0	71.6	51.6
2500	71.8	73.3	76.8	77.6	82.4	80.2	79.6	83.7	85.8	87.5	88.1	90.0	93.0	96.3	100.0	100.1	96.0	68.5	48.5
3150	68.8	70.0	73.7	74.5	79.3	77.0	76.4	80.3	82.4	84.1	84.7	86.8	89.8	92.9	96.7	96.7	92.7	65.1	45.1
4000	65.1	66.4	70.3	71.0	75.6	73.5	72.9	76.7	78.6	80.3	81.1	83.2	86.3	89.2	92.9	92.8	89.0	61.2	41.2
5000	61.0	62.2	66.3	67.1	71.5	69.6	68.9	72.7	74.3	76.0	77.0	79.1	82.2	85.1	88.7	88.4	84.9	56.9	36.9
6300	56.6	57.8	62.1	62.9	67.1	65.3	64.6	68.2	69.7	71.3	72.5	74.8	77.9	80.7	84.3	83.9	80.5	52.3	32.3
8000	52.5	53.8	58.0	58.8	62.7	61.1	60.5	63.9	65.2	66.8	68.3	70.8	74.1	77.0	80.7	80.0	76.8	48.5	28.5
10000	48.1	49.4	53.6	54.3	57.9	56.4	56.0	59.2	60.4	62.0	63.8	66.6	69.9	73.0	76.7	75.9	72.8	44.4	24.4
12500	43.4	44.8	48.7	49.4	52.8	51.3	51.1	54.2	55.4	57.1	58.9	61.9	65.4	68.5	72.4	71.5	68.4	40.1	20.1
16000	38.2	39.7	43.4	43.9	47.2	45.5	45.7	48.7	50.0	51.6	53.6	56.8	60.4	63.9	67.6	66.7	63.6	35.5	15.5
20000	32.4	34.1	37.4	37.9	41.1	39.5	39.9	42.7	44.1	45.7	47.8	51.2	54.8	58.6	62.4	61.5	58.2	30.5	10.5
25000	26.1	28.0	30.9	31.3	34.3	32.7	33.5	36.2	37.6	39.2	41.4	45.0	48.8	52.9	56.6	55.8	52.5	25.3	5.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-004-021  
 RUN 03  
 AIRCRAFT CODE 045  
 OPERATION: MILITARY POWER, 100% RPM  
 AIRCRAFT: F-105  
 ENGINE: J79-GE-7  
 PROFILE VERSION A  
 GRJUND RUNUP  
 METEOROLOGY: TEMP = 59 F  
 REL HUMID = 73 %  
 DELTA N = 0.0 DB

P=PNLT      A=AL      T=AL

ANGLE	40	50	60	70	80	90	90	100	110	120	130	140
	NOISE LEVEL IN PNJB OR DBA											
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.





F R E Q U E N C Y	M E A N V A L U E O F N O R M A L I Z E D 1/3 O B S P L I N D B											M E A N	S D			
	40	50	60	70	80	90	100	110	110	110	110					
50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	95.4	.
63	.	.	.	.	.	.	.	.	.	.	.	.	.	.	93.6	.
80	.	.	.	.	.	.	.	.	.	.	.	.	.	.	91.4	.
100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	103.1	.
125	.	.	.	.	.	.	.	.	.	.	.	.	.	.	109.9	.
160	.	.	.	.	.	.	.	.	.	.	.	.	.	.	111.9	.
200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	108.5	.
250	.	.	.	.	.	.	.	.	.	.	.	.	.	.	106.2	.
315	.	.	.	.	.	.	.	.	.	.	.	.	.	.	110.8	.
400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	106.5	.
500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	108.2	.
630	.	.	.	.	.	.	.	.	.	.	.	.	.	.	107.1	.
800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	105.2	.
1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	103.6	.
1250	.	.	.	.	.	.	.	.	.	.	.	.	.	.	103.1	.
1600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	102.9	.
2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	102.5	.
2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	100.6	.
3150	.	.	.	.	.	.	.	.	.	.	.	.	.	.	99.7	.
4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	98.4	.
5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	96.5	.
6300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	95.8	.
8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	96.2	.
10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	96.5	.

F-111A,E AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 128.5 PNOB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 127.7 PNOB

NO. OF RECORDS = 1 IDENT: 6.6-510-101-170276 ALT = 115.5 DBA

AL = 114.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
( OPERATION:		A/C CODE: 510																						
( AFTERBURNER POWER		TEMP = 59 F																						
( 97 % RPM		REL HUMID = 70 %																						
( AIRSPEED = 350 KNOTS		DELTA N = 0.0 DB																						
( DELTA N = 0.0 DB		PAGE H1																						
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																						
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	109	108	106	117	124	126	123	121	125	121	123	122	120	119	119	119	119	118	119	120	119	122	128	136
250	107	106	103	115	122	124	121	119	123	119	121	120	118	117	117	117	117	116	117	117	116	119	125	133
315	105	104	101	113	120	122	119	116	121	117	119	118	116	115	115	115	115	114	114	115	114	116	121	128
400	103	102	99	111	118	120	117	114	119	115	117	116	114	113	112	113	113	111	112	112	111	113	117	124
500	101	100	97	109	116	118	115	112	117	113	115	114	112	110	110	110	109	109	109	109	108	109	113	119
630	99	98	95	107	114	116	113	110	115	111	113	112	110	108	108	108	108	106	106	106	104	105	109	112
800	97	96	93	105	112	114	111	108	113	109	110	109	107	106	106	105	105	104	103	102	101	101	103	105
1000	95	94	91	103	110	112	109	106	111	107	108	107	105	104	103	103	103	101	100	98	97	96	96	97
1250	93	92	89	101	108	110	106	104	109	104	106	105	103	101	101	100	100	97	96	94	92	90	89	86
1600	91	90	87	99	106	108	104	102	106	102	104	102	100	99	98	97	96	94	92	89	86	83	79	74
2000	89	87	85	97	104	106	102	100	104	100	101	100	98	96	95	94	93	90	87	83	80	75	68	59
2500	87	85	83	95	102	103	100	98	102	97	99	97	95	93	92	91	89	85	82	77	72	65	55	40
3150	85	83	81	93	99	101	98	95	100	95	96	95	92	90	88	87	85	80	76	69	63	53	39	17
4000	83	81	79	91	97	99	95	93	97	92	94	92	89	86	85	82	80	74	69	60	53	39	19	
5000	81	79	77	88	95	97	93	90	95	90	91	89	86	83	80	78	74	68	60	48	40	21		
6300	75	74	72	86	93	94	91	88	92	87	88	85	82	78	75	72	67	59	50	35	24			
8000	77	75	72	84	90	92	88	85	89	84	84	82	78	74	70	65	59	50	37	18				
10000	75	73	70	82	88	89	85	82	86	80	80	77	73	68	63	57	50	38	22					
12500	72	70	68	79	85	87	83	79	83	77	76	72	67	61	56	48	39	24	3					
16000	70	68	65	77	83	84	79	76	79	72	71	67	61	54	47	37	25	6						
20000	68	66	63	74	80	81	76	72	75	68	66	60	53	45	36	23	8							
25000	65	63	60	71	77	77	72	68	70	62	59	53	44	34	22	7								

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*													
AIR-TO-GROUND PROPAGATION											IDENTIFICATION:		
AIRCRAFT:	OPERATION:	A/C CODE:	AFTERBURNER POWER	TEMP	REL HUMID	DELTA N	AL	ALT**	PNL	PNLI**	SEL	SELT**	EPNL**
( F-111A,E	( 97 % RPM	( 59 F	( 70 %	( 0.0 DB	(	(	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)
( AIRSPEED = 350 KNOTS	(	(	(	(	(	(	(	(	(	(	(	(	(
( SLANT DISTANCE	( (FEET)	(	(	(	(	(	(	(	(	(	(	(	(
200	136.2	137.0	150.0	150.7	131.8	132.8	131.8	132.8	136.3				
250	133.1	133.9	147.1	147.8	129.8	130.8	129.8	130.8	134.4				
315	129.9	130.7	143.9	144.7	127.6	128.6	127.6	128.6	132.3				
400	126.7	127.4	140.6	141.4	125.3	126.3	125.3	126.3	130.0				
500	123.4	124.2	137.1	137.9	123.1	124.1	123.1	124.1	127.5				
630	120.4	121.1	133.8	134.6	121.0	122.0	121.0	122.0	125.2				
800	117.5	118.2	130.9	131.0	119.1	120.1	119.1	120.1	123.2				
1000	114.8	115.5	127.7	128.5	117.4	118.4	117.4	118.4	121.1				
1250	112.1	112.9	124.7	125.4	115.8	116.8	115.8	116.8	119.1				
1600	109.5	110.2	121.8	122.5	114.1	115.1	114.1	115.1	117.2				
2000	106.8	107.5	118.8	119.6	112.4	113.4	112.4	113.4	115.2				
2500	104.0	104.8	115.8	116.5	110.7	111.7	110.7	111.7	113.2				
3150	101.2	101.9	112.7	113.5	108.8	109.8	108.8	109.8	111.1				
4000	98.3	98.9	109.6	110.2	106.9	107.7	106.9	107.7	108.8				
5000	95.3	95.7	106.5	106.9	104.9	105.5	104.9	105.5	106.4				
6300	92.1	92.4	103.2	103.5	102.7	103.1	102.7	103.1	103.9				
8000	88.8	89.0	99.8	99.9	100.5	100.7	100.5	100.7	101.3				
10000	85.4	85.4	96.2	96.2	98.0	98.0	98.0	98.0	98.6				
12500	81.8	81.8	92.6	92.6	95.4	95.4	95.4	95.4	95.9				
16000	78.0	78.0	88.9	88.9	92.6	92.6	92.6	92.6	93.3				
20000	73.9	73.9	85.1	85.1	89.6	89.6	89.6	89.6	90.5				
25000	69.7	69.7	80.9	80.9	86.3	86.3	86.3	86.3	87.3				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 (-----A+-----*P)
    ( F-111A,E AFTERBURNER POWER
250 ( . 97 % RPM . . . . . A+ . . . . . *P .
    ( AIRSPEED = 350 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . A+ . . . . . *P .
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 1 . . . . . X
    ( IDENT: 0.6-510-101-170276-A
500 ( . . . . . A+ . . . . . *P . . . . .
S 630 ( . . . . . A+ . . . . . *P .
L 800 ( . . . . . A+ . . . . . *P .
A 1000 ( . . . . . A+ . . . . . X . . . . .
N 1250 ( . . . . . A+ . . . . . X . . . . .
D 1600 ( . . . . . A+ . . . . . *P .
I 2000 ( . . . . . A+ . . . . . *P .
S 2500 ( . . . . . A+ . . . . . *P .
T 3150 ( . . . . . A+ . . . . . X . . . . .
A 4000 ( . . . . . A+ . . . . . X . . . . .
N 5000 ( . . . . . A+ . . . . . *P . . . . .
E 6300 ( . . . . . X . . . . . X . . . . .
E 8000 ( . . . . . X . . . . . X . . . . .
T 10000 ( . . . . . X . . . . . X . . . . .
12500 ( . . . . . X . . . . . X . . . . . AIR TO GROUND
16000 ( . . . . . X . . . . . X . . . . . P = PNL
20000 ( . . . . . X . . . . . X . . . . . * = PNL
25000 ( . . . . . X . . . . . X . . . . . + = ALT
    ( . . . . . X . . . . . X . . . . . A = AL
    (-----X-----)
70 80 90 100 110 120 130 140 150
NOISE LEVEL IN DB

```

```

200 (-----ST-E)
( F-111A,E AFTERBURNER POWER
250 ( . 97 % RPM . . . . . ST E . . )
( AIRSPEED = 350 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST. E . . )
( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 1 . . . . . ST E . . )
( IDENT: 6.6-510-101-170276-A
500 ( . . . . . ST .E. . . . . )
(
S 630 ( . . . . . ST E . . )
L (
A 800 ( . . . . . ST E . . )
N (
T 1000 ( . . . . . ST .E. . . . . )
(
D 1250 ( . . . . . ST E. . . . . )
I (
S 1600 ( . . . . . ST E . . . . . )
T (
A 2000 ( . . . . . ST.E. . . . . )
N (
C 2500 ( . . . . . STE . . . . . )
E (
3150 ( . . . . . STE . . . . . )
(
I N 4000 ( . . . . . STE. . . . . )
(
F 5000 ( . . . . . XE . . . . . )
E (
E 6300 ( . . . . . XE . . . . . )
T (
8000 ( . . . . . SX . . . . . )
(
10000 ( . . . . . XE. . . . . )
(
12500 ( . . . . . XE . . . . . AIR TO GROUND
(
16000 ( . . . . . X . . . . . E = EPNL
(
20000 ( . . . . . X . . . . . T = SELT
(
25000 ( . . . . . XE-----XE . . . . . = SEL
(-----60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		METEOROLOGY:																								
( OPERATION: )		A/C CODE: 510																								
( AFTERBURNER POWER )		OPS CODE: 101																								
( 97 % RPM )		REL HUMID = 70 %																								
( )		PROFILE VER: A																								
( )		17 FEB 76																								
( AIRSPEED = 350 KNOTS )		DELTA N = 0.0 08																								
( )		PAGE L1																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	104	103	101	112	119	121	118	116	120	116	118	117	115	114	114	114	113	114	115	114	115	114	117	123	131	
250	102	101	98	110	117	119	116	114	118	114	116	115	113	112	112	112	111	112	112	111	112	111	114	120	128	
315	100	99	96	108	115	117	114	111	116	112	114	113	111	110	110	110	109	109	110	109	110	109	111	116	123	
400	98	97	94	106	113	115	112	109	114	110	112	111	109	108	107	108	108	106	107	107	107	106	108	112	119	
500	96	95	92	104	111	112	109	107	112	108	110	109	107	105	105	105	105	104	104	104	104	104	103	104	108	114
630	94	93	90	102	108	110	106	105	110	106	108	107	105	103	103	103	103	101	101	101	101	101	99	100	103	107
800	92	91	88	100	106	107	104	102	108	104	105	104	102	101	101	100	100	99	98	97	96	96	96	98	100	
1000	90	89	86	97	103	104	101	99	106	102	103	102	100	99	98	98	96	95	92	91	89	93	92	91	92	
1250	88	87	83	94	99	101	98	96	103	99	101	100	98	96	96	95	92	91	89	87	84	81	85	84	81	
1600	86	83	80	90	96	98	94	92	99	97	99	97	95	94	93	92	91	89	87	84	81	78	74	69	69	
2000	83	80	76	86	92	94	90	88	96	95	96	95	93	91	90	89	88	85	82	78	75	70	63	54	54	
2500	80	76	72	82	88	89	86	84	92	91	94	92	90	88	87	86	84	80	77	72	67	60	50	35	35	
3150	76	71	67	77	83	84	81	79	87	87	90	87	85	83	82	80	75	71	64	58	48	34	12	12		
4000	71	66	62	72	77	79	75	73	82	82	86	84	81	80	77	75	69	64	55	48	34	14	14	14		
5000	66	62	57	67	73	74	70	68	76	76	82	80	78	75	73	69	63	55	43	35	16	16	16	16		
6300	61	57	53	62	68	69	65	63	70	71	78	77	76	73	70	67	62	54	45	30	19	19	19	19		
8000	59	55	50	60	65	67	63	60	67	68	74	74	72	69	65	60	54	45	32	13	13	13	13	13		
10000	57	53	48	58	63	64	60	57	64	64	70	69	67	63	58	52	45	33	17	17	17	17	17	17		
12500	54	50	46	55	60	61	57	54	61	61	66	64	61	56	51	43	34	19	19	19	19	19	19	19		
16000	52	48	43	53	58	58	54	51	57	56	61	59	55	49	42	32	20	11	11	11	11	11	11	11		
20000	50	46	41	50	55	55	51	47	53	52	56	52	47	40	31	18	3	3	3	3	3	3	3	3		
25000	47	43	38	47	52	52	47	43	48	46	49	45	38	29	17	2	2	2	2	2	2	2	2	2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) A/C CODE: 510  
 ( AFTERBURNER POWER ) TEMP = 59 F ) OPS CODE: 101  
 ( 97 % RPM ) REL HUMID = 70 % ) PROFILE VER: A  
 ( ) ) ) 17 FEB 76  
 ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) PAGE M1  
 ( ) ) ) )

IDENTIFICATION: )  
 ) ) ) ) OMEGA 6.6  
 ) ) ) ) )

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	131.2	132.1	145.0	145.9	126.8	128.0	131.5
250	128.1	129.0	142.1	143.0	124.8	125.9	129.6
315	124.9	125.8	139.0	139.9	122.6	123.7	127.5
400	121.7	122.6	135.6	136.5	120.3	121.4	125.2
500	118.4	119.3	132.1	132.0	118.0	119.2	122.6
630	115.3	116.2	128.7	129.6	115.9	117.1	120.3
800	112.4	113.3	125.7	126.6	114.0	115.2	118.2
1000	109.6	110.5	122.4	123.3	112.2	113.4	115.9
1250	106.8	107.7	119.0	119.9	110.5	111.6	113.6
1600	104.0	104.9	115.5	116.4	108.6	109.8	111.1
2000	101.1	102.0	112.0	112.9	106.7	107.9	109.5
2500	97.9	98.8	108.3	109.2	104.6	105.7	105.8
3150	94.5	95.4	104.1	105.0	102.1	103.3	102.6
4000	90.6	91.4	99.4	100.2	99.3	100.2	98.7
5000	86.3	86.8	94.4	95.0	95.9	96.6	94.5
6300	81.6	82.0	89.2	89.6	92.3	92.7	90.0
8000	77.4	77.6	85.0	85.2	89.1	89.3	86.6
10000	72.9	72.9	80.5	80.5	85.5	85.5	82.9
12500	68.0	68.0	75.8	75.8	81.6	81.6	79.1
16000	62.6	62.6	70.5	70.5	77.3	77.3	74.9
20000	56.8	56.8	64.8	64.8	72.4	72.4	70.2
25000	50.5	50.5	58.2	58.2	67.1	67.1	64.6

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(
	F-111A,E	AFTERBURNER	POWER						
250	(	(	(	(	(	(	(	(	(
	97 %	RPM					A+		*P
315	(	(	(	(	(	(	(	(	(
	AIR SPEED = 350	KNOTS							
	TEMP = 59	F	REL HUMID = 70	%			A+		*P
	DELTA N = 0.0	DB							
400	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1						A+		*P
	IDENT: 6.6-510-101-170276-A								
500	(	(	(	(	(	(	(	(	(
							A+		*P
630	(	(	(	(	(	(	(	(	(
							A+		*P
800	(	(	(	(	(	(	(	(	(
							A+		*P
1000	(	(	(	(	(	(	(	(	(
							A+		*P
1250	(	(	(	(	(	(	(	(	(
							A+		*P
1600	(	(	(	(	(	(	(	(	(
							A+		X
2000	(	(	(	(	(	(	(	(	(
							A+		*P
2500	(	(	(	(	(	(	(	(	(
							A+		*P
3150	(	(	(	(	(	(	(	(	(
							A+		*P
4000	(	(	(	(	(	(	(	(	(
							A+		*P
5000	(	(	(	(	(	(	(	(	(
							A+		*P
6300	(	(	(	(	(	(	(	(	(
							A+		*P
8000	(	(	(	(	(	(	(	(	(
							A+		X
10000	(	(	(	(	(	(	(	(	(
							A+		X
12500	(	(	(	(	(	(	(	(	(
							A+		X
16000	(	(	(	(	(	(	(	(	(
							A+		X
20000	(	(	(	(	(	(	(	(	(
							A+		X
25000	(	(	(	(	(	(	(	(	(
							A+		X



```

200 (-----ST-----)
( F-111A,E AFTERBURNER POWER )
250 ( . 97 % RPM . . . . . ST E . )
( AIRSPEED = 350 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . ST E . )
( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 1 . . . . . ST E . )
( IDENT: 6.6-510-101-170276-A )
500 ( . . . . . ST. .E. . . . . )
( . . . . . )
S 630 ( . . . . . ST E . )
L 800 ( . . . . . ST E . )
A 1000 ( . . . . . ST. E . . . . . )
N 1250 ( . . . . . S T E . . . . . )
D 1500 ( . . . . . STE . . . . . )
I 2000 ( . . . . . .STE. . . . . )
S 2500 ( . . . . . SX . . . . . )
T 3150 ( . . . . . SX . . . . . )
A 4000 ( . . . . . XT . . . . . )
N 5000 ( . . . . . .EST. . . . . )
F 6300 ( . . . . . E ST . . . . . )
E 8000 ( . . . . . E X. . . . . )
T 10000 ( . . . . . .E. X . . . . . )
12500 ( . . . . . E. X . . . . . )
16000 ( . . . . . E X . . . . . )
20000 ( . . . . . E X . . . . . )
25000 (-----E-X-----)
60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

```

	30	40	50	60	70	80	90	100	MEAN	SD
F	.	.	.	.	.	.	.	.	76.2	
R	.	.	.	.	.	.	.	.	75.9	
E	.	.	.	.	.	.	.	.	75.8	
Q	.	.	.	.	.	.	.	.	85.2	
U	.	.	.	.	.	.	.	.	93.6	
E	.	.	.	.	.	.	.	.	96.3	
N	.	.	.	.	.	.	.	.	92.7	
C	.	.	.	.	.	.	.	.	94.3	
Y	.	.	.	.	.	.	.	.	96.0	
I	.	.	.	.	.	.	.	.	95.3	
N	.	.	.	.	.	.	.	.	93.6	
H	.	.	.	.	.	.	.	.	94.6	
Z	.	.	.	.	.	.	.	.	93.7	
3150	.	.	.	.	.	.	.	.	93.5	
4000	.	.	.	.	.	.	.	.	92.8	
5000	.	.	.	.	.	.	.	.	92.5	
6300	.	.	.	.	.	.	.	.	92.4	
8000	.	.	.	.	.	.	.	.	91.1	
10000	.	.	.	.	.	.	.	.	88.8	
	.	.	.	.	.	.	.	.	86.1	
	.	.	.	.	.	.	.	.	81.7	
	.	.	.	.	.	.	.	.	77.9	
	.	.	.	.	.	.	.	.	74.0	
	.	.	.	.	.	.	.	.	69.0	

F-111A,E TAKEOFF POWER 97 % RPM

AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 116.0 PNOB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 115.5 PNOB  
 NO. OF RECORDS = 1 IDENT: 6.6-510-103-170276 ALT = 103.6 DBA  
 ALT = 103.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 510																							
( OPERATION: TAKEOFF POWER = 97% RPM		OPS CODE: 103																							
( F-111A,E		PROFILE VER: A																							
( ( AIRSPEED = 300 KNOTS		17 FEB 76																							
( ( DELTA N = 0.0 DB		PAGE H2																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
( 200	( 90	99	100	111	107	109	110	108	109	109	108	109	108	109	109	108	109	109	109	108	107	104	104	105	108
( 250	( 88	97	106	106	105	107	108	106	107	107	107	106	107	107	107	106	107	107	107	105	105	101	101	102	104
( 315	( 86	95	104	106	103	105	106	106	104	105	105	105	104	105	105	104	105	104	103	102	99	98	98	100	
( 400	( 84	93	102	104	101	103	104	104	102	103	103	102	103	103	103	102	102	102	101	99	96	95	95	96	
( 500	( 82	91	100	102	99	101	102	102	100	101	100	100	100	100	100	99	98	99	98	96	93	91	91	90	
( 630	( 80	89	98	100	97	98	100	100	98	99	98	98	98	98	98	98	98	98	97	95	93	89	87	86	
( 800	( 78	87	96	98	95	96	93	97	96	93	97	96	97	96	95	95	95	94	94	92	90	86	83	80	
( 1000	( 76	85	94	96	93	94	96	95	94	95	94	95	94	94	94	93	93	92	91	89	86	82	78	74	
( 1250	( 74	83	92	94	91	92	94	93	91	92	91	92	91	91	91	90	89	88	85	85	82	77	72	67	
( 1600	( 72	81	89	92	89	90	92	91	89	90	89	88	87	89	88	87	86	84	81	77	72	65	58	47	
( 2000	( 70	79	87	90	86	88	89	89	87	88	86	85	84	86	85	84	83	81	77	71	65	57	47	32	
( 2500	( 68	77	85	88	84	86	87	86	84	85	84	83	82	80	79	76	71	65	58	48	34	14			
( 3150	( 66	75	83	86	82	83	85	84	82	82	81	80	78	77	75	71	65	57	49	36	18				
( 4000	( 64	73	81	84	80	81	82	81	79	79	78	76	75	72	70	65	58	48	39	23					
( 5000	( 62	71	79	81	77	79	80	79	76	76	74	73	70	68	64	59	50	37	26	6					
( 6300	( 60	59	68	77	75	76	77	76	73	73	71	69	66	62	58	51	40	24	11						
( 8000	( 58	57	66	74	76	72	73	74	73	70	69	64	60	56	50	41	28	8							
( 10000	( 55	55	64	72	74	74	71	71	69	66	65	62	58	54	48	41	30	13							
( 12500	( 53	53	61	69	71	67	68	68	66	62	60	56	52	46	39	30	16								
( 16000	( 51	50	59	67	68	64	64	64	61	57	55	50	45	37	28	17									
( 20000	( 49	48	47	55	64	65	60	61	60	57	52	49	42	36	27	15	0								
( 25000	( 46	45	45	53	61	62	57	56	56	51	46	41	33	25	14										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-111A,E	119.7	120.3	133.3	133.8	119.8	120.9	123.2	OMEGA	6.6
	117.5	118.0	131.0	131.5	118.5	119.6	121.9		
	115.2	115.7	128.7	129.2	117.3	118.4	120.6		
	112.9	113.4	126.2	126.8	115.9	117.0	119.1		
	110.5	111.0	123.7	124.2	114.6	115.7	117.6		
	108.1	108.6	121.1	121.6	113.1	114.2	116.0		
	105.6	106.1	118.4	118.9	111.6	112.7	114.3		
	102.0	103.6	115.5	116.0	110.1	111.2	112.4		
	100.4	100.9	112.5	113.0	108.5	109.6	110.4		
	97.7	98.2	109.3	109.8	106.8	107.9	108.2		
	94.9	95.4	106.0	106.5	105.0	106.1	105.9		
	92.0	92.5	102.5	103.1	103.1	104.2	103.4		
	89.0	89.5	99.2	99.7	101.0	102.1	101.1		
	85.9	86.3	96.0	96.4	98.9	99.8	98.7		
	82.6	82.9	92.6	92.9	96.7	97.3	96.1		
	79.2	79.5	89.1	89.4	94.3	94.7	93.4		
	75.7	75.8	85.5	85.6	91.8	92.0	90.6		
	72.1	72.1	81.7	81.7	89.1	89.1	87.6		
	68.2	68.2	77.7	77.7	86.3	86.3	84.5		
	64.2	64.2	73.4	73.4	83.3	83.3	81.2		
	60.0	60.0	69.0	69.0	80.0	80.0	77.8		
	55.5	55.5	64.4	64.4	76.6	76.6	74.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----X-----*P)
( F-111A,E TAKEOFF POWER
250 ( . 97 % RPM . A+ . . *P
( AIRSPEED = 300 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . A+ . . X.
( DELTA N = 0.0 OB . . X . . *P
400 ( . NO. OF RECORDS: 1 . . . . .
( IDENT: 6.6-510-103-170276-A . . . . .
500 ( . . . . . A+ . . . . . X . . . . .
)
S 630 ( . . . . . A+ . . . . . *P
L 800 ( . . . . . X . . . . . *P.
A 1000 ( . . . . . A+ . . . . . *P
N 1250 ( . . . . . A+ . . . . . *P
T 1600 ( . . . . . X . . . . . *P
A 2000 ( . . . . . X . . . . . *P.
N 2500 ( . . . . . A+ . . . . . X . . . . .
E 3150 ( . . . . . A+ . . . . . *P
I 4000 ( . . . . . X . . . . . X . . . . .
N 5000 ( . . . . . X . . . . . X . . . . .
E 6300 ( . . . . . X . . . . . X . . . . .
T 8000 ( . . . . . X . . . . . X . . . . .
10000 ( . . . . . X . . . . . X . . . . .
12500 ( . . . . . X . . . . . X . . . . . AIR TO GROUND
16000 ( . . . . . X . . . . . X . . . . . P = PNLT
20000 ( . . . . . X . . . . . X . . . . . * = PNL
25000 ( . . . . . X . . . . . X . . . . . + = ALT
( . . . . . X . . . . . X . . . . . A = AL
)
-----X-----
60 70 80 90 100 110 120 130 140
NOISE LEVEL IN DB

```



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/G CODE: 510																							
( OPERATION: )		OPS CODE: 103																							
( TAKEOFF POWER )		PROFILE VER: A																							
( 97 % RPM )		17 FEB 76																							
( )		PAGE L2																							
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	85	85	85	94	103	106	102	104	105	105	103	104	104	104	103	104	104	104	103	102	99	99	100	103
250	83	83	83	83	92	101	103	100	102	103	103	101	102	102	102	101	102	102	102	100	100	96	96	97	99
315	81	81	81	81	90	99	101	98	100	101	101	99	100	100	100	99	99	100	99	98	97	94	93	93	95
400	79	79	79	79	88	97	99	96	98	99	99	97	98	98	98	98	97	97	97	96	94	91	90	90	91
500	77	77	77	77	86	95	97	93	95	97	97	95	96	95	95	95	95	95	94	93	91	88	86	86	85
630	75	75	75	75	84	92	94	91	93	95	95	93	94	93	93	93	93	93	92	90	88	84	82	81	79
800	73	73	73	73	82	89	91	88	90	93	92	91	92	91	91	90	90	90	89	87	85	81	78	75	72
1000	71	71	71	71	79	86	89	85	87	91	90	89	90	89	89	88	88	87	86	84	81	77	73	69	64
1250	69	69	68	76	83	85	82	84	88	88	88	86	87	86	86	85	85	84	83	80	77	72	67	62	54
1600	67	66	64	72	80	82	78	80	85	86	86	84	85	84	84	83	82	81	79	76	72	67	60	53	42
2000	64	62	61	69	76	78	74	76	81	84	84	82	83	81	81	80	79	78	76	72	66	60	52	42	27
2500	60	58	57	64	72	74	70	72	77	80	79	80	79	78	77	75	74	74	71	66	60	53	43	29	9
3150	56	54	52	59	67	69	65	67	72	76	76	76	77	76	75	73	72	70	66	60	52	44	31	13	
4000	52	49	47	54	61	63	59	61	67	71	72	74	73	71	70	67	65	60	53	43	34	18			
5000	47	44	42	49	56	58	54	56	61	65	68	70	69	68	65	63	59	54	45	32	21	1			
6300	42	39	37	44	52	53	49	51	55	60	63	65	64	64	61	57	53	46	35	19	6				
8000	40	37	35	42	49	51	47	48	52	57	60	61	60	59	55	51	45	36	23	3					
10000	37	35	33	40	47	48	44	46	49	53	56	57	56	53	49	43	36	25	8						
12500	35	33	30	37	44	46	41	43	46	50	52	52	50	47	41	34	25	11							
16000	33	30	28	35	42	43	38	39	42	45	47	47	44	40	33	23	12								
20000	31	28	25	32	39	40	35	36	38	41	42	41	36	30	21	10									
25000	28	25	23	29	36	36	31	31	34	35	36	33	27	20	12										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF BANDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPND9)	IDENTIFICATION:	
F-111A,E	114.7	114.7	128.3	128.3	114.8	115.4	117.7	OMEGA	6.6
	112.5	112.5	126.0	126.0	113.5	114.1	116.4		
	110.2	110.2	123.6	123.6	112.3	112.8	115.0		
	107.9	107.9	121.2	121.2	110.9	111.5	113.6		
	105.5	105.5	118.7	118.7	109.5	110.1	112.1		
	103.0	103.0	116.0	116.0	108.1	108.7	110.4		
	100.5	100.5	113.2	113.2	106.6	107.2	108.6		
	98.0	98.0	110.2	110.2	105.0	105.6	106.6		
	95.3	95.3	107.0	107.0	103.3	103.9	104.4		
	92.5	92.5	103.6	103.6	101.5	102.1	101.9		
	89.5	89.5	99.9	99.9	99.6	100.2	99.3		
	86.4	86.4	96.0	96.0	97.4	98.0	96.4		
	82.9	82.9	91.6	91.6	95.0	95.5	92.9		
	79.1	79.1	87.0	87.0	92.2	92.6	89.2		
	74.8	74.8	82.0	82.0	88.9	89.2	85.1		
	70.2	70.2	76.8	76.8	85.2	85.5	80.8		
	65.8	65.8	72.3	72.3	81.9	82.0	77.2		
	61.1	61.1	67.5	67.5	78.1	78.1	73.3		
	55.9	55.9	62.2	62.2	74.0	74.0	69.0		
	50.3	50.3	56.4	56.4	69.4	69.4	64.3		
	44.3	44.3	50.2	50.2	64.3	64.3	59.0		
	37.7	37.7	42.7	42.7	58.8	58.8	52.5		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	F-111A,E TAKEOFF POWER								
250	(	(	(	(	(	(	(	(	(
	97 % RPM								
315	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
	TEMP = 59 F REL HUMID = 70 %								
	DELTA N = 0.0 DB								
400	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 1								
	IDENT: 6.6-510-103-170276-A								
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
	GROUND TO GROUND								
	P = PNLT								
	* = PNL								
	+ = ALT								
	A = AL								

F-111A, E TAKEOFF POWER  
97 % RPM  
AIRSPEED = 300 KNOTS  
TEMP = 59 F REL HUMID = 70 %  
DELTA N = 0.0 DB  
NO. OF RECORDS: 1  
IDENT: 6.6-510-103-170276-A

	40	50	60	70	80	90	100	110	120
S	(	(	(	(	(	(	(	(	(
L	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
D	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
S	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
C	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
F	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(

NOISE LEVEL IN DB

GROUND TO GROUND  
E = EPNL  
T = SELT  
S = SEL

	20	30	40	50	60	70	80	90	MEAN	SD
50	.	.	.	.	.	.	.	.	69.8	
63	.	.	.	.	.	X	.	.	67.0	
80	.	.	.	X	.	.	.	.	65.4	
100	.	.	.	.	.	.	X	.	75.9	
125	.	.	.	.	.	.	.	X	83.0	
160	.	.	.	.	.	.	.	.	85.9	
200	.	.	.	.	.	.	X	.	81.5	
250	.	.	.	.	.	.	X	.	78.9	
315	.	.	.	.	.	.	.	X	83.8	
400	.	.	.	.	.	.	X	.	81.6	
500	.	.	.	.	.	.	X	.	81.2	
630	.	.	.	.	.	.	X	.	79.9	
800	.	.	.	.	.	.	X	.	78.1	
1000	.	.	.	.	.	.	X	.	76.2	
1250	.	.	.	.	.	.	X	.	74.8	
1600	.	.	.	.	.	X	.	.	73.1	
2000	.	.	.	.	.	.	X	.	71.4	
2500	.	.	.	.	.	X	.	.	69.6	
3150	.	.	.	.	.	.	X	.	71.4	
4000	.	.	.	.	.	.	.	X	68.1	
5000	.	.	.	.	.	X	.	.	60.7	
6300	.	.	.	.	X	.	.	.	53.6	
8000	.	.	.	X	.	.	.	.	46.8	
10000	.	.	X	.	.	.	.	.	39.8	

F-111A,E      APPROACH POWER      81 % RPM

AIRSPEED = 150 KNOTS      TEMP = 59 F      PNLT = 99.2 PNDB

SLANT DISTANCE = 1000 FEET      REL HUMID = 70 %      PNL = 98.6 PNDB

NO. OF RECORDS = 1      IDENT: 6.6-510-105-170276      ALT = 87.5 DBA

AL = 86.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
OPERATION:		A/C CODE: 510																							
APPROACH POWER		OPS CODE: 105																							
81 % RPM		REL HUMID = 70 %																							
F-111A+E		PROFILE VER: A																							
AIRSPEED = 150 KNOTS		DELTA N = 0.0 DB																							
		PAGE H3																							
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	84	81	80	90	97	100	96	93	98	96	96	95	93	92	90	89	88	87	86	85	88	83	79	78	79
250	82	79	77	88	95	98	94	91	96	94	94	93	91	89	88	87	86	85	84	83	86	84	80	77	75
315	80	77	75	86	93	96	92	89	94	92	92	91	89	87	86	85	84	83	82	81	86	84	78	74	71
400	78	75	73	84	91	94	90	87	92	90	90	89	87	85	84	83	82	80	83	81	86	81	75	70	68
500	76	73	71	82	89	92	88	85	90	88	88	86	85	83	82	80	79	78	81	78	81	72	67	63	51
630	74	71	69	80	87	90	86	83	88	86	86	84	83	81	80	78	77	75	78	75	78	69	63	59	55
800	72	69	67	78	85	88	84	81	86	84	83	82	80	79	77	76	74	73	75	72	75	65	59	53	48
1000	70	67	65	76	83	86	82	79	84	82	81	80	78	76	75	73	71	70	71	70	71	68	61	54	47
1250	68	65	63	74	81	84	79	77	82	79	79	78	76	74	72	70	68	66	68	68	64	56	48	39	30
1600	66	63	61	72	79	82	77	75	79	77	77	75	73	71	70	67	65	63	64	64	59	51	41	30	18
2000	64	61	59	70	77	80	75	72	77	75	74	73	71	69	67	64	62	59	59	53	44	33	20	3	
2500	62	59	57	68	75	78	73	70	75	73	72	70	68	66	64	61	58	55	54	47	37	23	7		
3150	60	57	55	66	73	75	71	68	73	70	69	68	65	63	60	57	54	50	48	41	30	18			
4000	58	55	53	63	70	73	69	66	70	68	67	65	62	59	56	53	49	44	41	30	18				
5000	55	53	51	61	68	71	66	63	68	65	64	62	59	55	52	48	43	37	32	19	5				
6300	53	50	49	59	66	68	64	61	65	62	61	58	55	51	48	43	37	29	22	6					
8000	51	48	47	57	64	66	61	58	62	59	57	55	51	46	42	36	29	23	10						
10000	49	46	44	54	61	64	59	55	59	56	54	50	46	41	36	28	20	8							
12500	47	44	42	52	59	61	56	52	56	52	49	46	41	35	28	19	9								
16000	45	41	40	50	56	58	53	49	52	48	45	40	34	27	19	8									
20000	42	39	37	47	53	55	49	45	48	43	39	34	27	18	9										
25000	40	37	34	44	50	52	45	41	43	38	33	26	18	8											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DEA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-111A,E	102.5	103.1	116.0	116.6	103.1	104.5	109.2	OMEGA	6.6
	100.4	101.0	113.8	114.4	102.0	103.4	108.0		
	98.2	98.8	111.4	112.0	100.8	102.2	106.6		
	96.0	96.6	109.1	109.7	99.6	101.0	105.3		
	93.8	94.4	106.6	107.2	98.4	99.8	103.8		
	91.5	92.1	104.0	104.6	97.2	98.5	102.2		
	89.2	89.8	101.3	101.9	95.9	97.3	100.5		
	86.9	87.5	96.6	99.2	94.5	95.9	98.8		
	84.5	85.1	96.0	96.6	93.1	94.5	97.2		
	82.0	82.6	93.3	94.0	91.6	93.0	95.5		
	79.5	80.1	90.6	91.2	90.1	91.5	93.8		
	76.9	77.5	87.7	88.3	88.5	89.9	91.9		
	74.2	74.8	84.8	85.4	86.8	88.2	90.0		
	71.4	71.9	81.7	82.2	85.0	86.2	87.6		
	68.5	68.9	78.5	78.9	83.1	84.0	85.2		
	65.5	65.7	75.2	75.5	81.1	81.6	82.6		
	62.3	62.4	71.8	71.9	78.9	79.2	79.9		
	58.9	58.9	68.1	68.1	76.5	76.5	76.9		
	55.3	55.3	64.2	64.2	74.0	74.0	74.0		
	51.6	51.6	60.2	60.2	71.2	71.2	71.0		
	47.6	47.6	56.0	56.0	68.2	68.2	67.8		
	43.4	43.4	51.4	51.4	65.0	65.0	64.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

APPROACH POWER

200	-----A+-----*P-----									
250	F-111A,E									
315	81 % RPM									
400	AIRSPEED = 150 KNOTS									
500	TEMP = 59 F REL HUMID = 70 %									
630	DELTA N = 0.0 DB									
800	NO. OF RECORDS: 1									
1000	IDENT: 6.6-510-105-17C276-A									
1250										
1600										
2000										
2500										
3150										
4000										
5000										
6300										
8000										
10000										
12500										
16000										
20000										
25000										

NOISE LEVEL IN DB

FREQ	APPROACH POWER										NOISE LEVEL IN DB		
	30	40	50	60	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(	(	(	(	(

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		METEOROLOGY:																						
OPERATION:		TEMP																						
APPROACH POWER = 59 F		REL HUMID = 70 %																						
81 % RPM		17 FER 76																						
AIRSPEED = 150 KNOTS		DELTA N = 0.0 DB																						
SLANT DISTANCE (FFET)		FREQUENCY BAND NUMBER																						
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	79	76	75	85	92	95	91	88	93	91	91	90	88	87	85	84	83	82	85	84	78	74	73	74
250	77	74	72	83	90	93	89	86	91	89	89	88	86	84	83	82	81	80	83	82	75	72	70	70
315	75	72	70	81	88	91	87	84	89	87	87	86	84	82	81	80	79	78	81	79	73	69	66	66
400	73	70	68	79	86	89	85	82	87	85	85	84	82	80	79	78	77	75	78	76	70	65	63	62
500	71	68	66	77	84	86	82	80	85	83	83	81	80	78	77	75	74	73	76	73	67	62	58	56
630	69	66	64	75	81	84	79	77	83	81	81	79	78	76	75	73	72	70	73	70	64	58	54	50
800	67	64	62	73	79	81	77	75	81	79	78	77	75	74	72	71	69	68	70	67	60	54	48	43
1000	65	62	60	70	76	78	74	72	79	77	76	75	73	71	70	68	66	65	66	63	56	49	42	35
1250	63	60	57	67	73	75	71	68	76	74	72	70	68	66	65	63	61	63	59	51	43	34	25	13
1600	61	57	54	63	69	72	67	65	72	72	70	68	66	64	62	59	57	54	54	48	39	28	15	2
2000	58	53	50	59	65	68	63	61	69	70	69	68	66	64	62	59	57	54	49	42	32	18	7	
2500	54	49	46	55	61	63	59	57	65	66	67	65	63	61	59	56	53	50	49	43	34	23	13	
3150	50	45	41	50	56	58	54	52	60	62	63	60	58	55	52	49	44	44	39	36	25	13		
4000	46	40	36	45	50	53	48	46	55	57	60	59	57	54	51	48	44	39	36	27	14			
5000	40	35	31	40	46	48	43	41	49	52	55	53	50	47	43	38	32	27	27	14				
6300	35	30	27	35	41	43	38	36	43	46	51	50	49	46	43	38	32	24	17	1				
8000	33	28	25	33	39	41	36	33	40	43	47	47	45	41	37	31	24	15	5					
10000	31	26	22	30	36	38	33	30	37	40	44	42	40	36	31	23	15	3						
12500	29	24	20	28	34	35	30	27	34	36	39	38	35	30	23	14	4							
16000	27	21	18	26	31	32	27	24	30	32	35	32	28	22	14	3								
20000	24	19	15	23	28	29	24	20	26	27	29	26	21	13	4									
25000	22	17	12	20	25	26	20	16	21	22	23	18	12	3										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT: F-111A,E											
OPERATION: APPROACH POWER = 59 F											
81 % RPM											
METEOROLOGY: TEMP = 59 F											
REL HUMID = 70 %											
AIRSPEED = 150 KNOTS											
DELTA N = 0.0 DB											
IDENTIFICATION: OMEGA 6.6											
A/C CODE: 510											
OPS CODE: 105											
PROFILE VER: A											
17 FEB 76											
PAGE M3											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)				
200	97.5	98.3	111.0	111.7	98.1	99.7	104.3				
250	95.4	96.1	108.7	109.5	97.0	98.5	103.1				
315	93.2	94.0	106.4	107.2	95.8	97.4	101.8				
400	91.0	91.8	104.0	104.8	94.6	96.2	100.4				
500	88.8	89.5	101.5	102.2	93.4	94.9	98.8				
630	86.5	87.2	98.8	99.6	92.1	93.6	97.2				
800	84.1	84.9	96.0	96.8	90.7	92.3	95.4				
1000	81.7	82.4	93.0	93.8	89.3	90.8	93.4				
1250	79.1	79.8	90.0	90.7	87.7	89.3	91.3				
1600	76.4	77.2	86.9	87.7	86.1	87.6	89.3				
2000	73.7	74.4	83.7	84.5	84.3	85.9	87.1				
2500	70.6	71.4	80.0	80.8	82.2	83.8	84.4				
3150	67.2	68.0	75.9	76.7	79.8	81.4	81.3				
4000	63.4	64.0	71.3	71.9	77.0	78.3	77.4				
5000	59.1	59.6	65.4	66.9	73.7	74.7	73.1				
6300	54.5	54.8	61.2	61.5	70.2	70.8	68.6				
8000	50.5	50.7	56.9	57.0	67.1	67.5	65.0				
10000	46.1	46.1	52.2	52.2	63.8	63.8	61.0				
12500	41.4	41.4	47.0	47.0	60.0	60.0	56.8				
16000	36.2	36.2	40.7	40.7	55.8	55.8	51.5				
20000	30.5	30.5	32.9	32.9	51.1	51.1	44.7				
25000	24.4	24.4	22.9	22.9	46.0	46.0	35.7				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----A+-----*P-----)
( F-111A,E APPROACH POWER )
( . 81 % RPM . A+ . X. )
( AIRSPEED = 150 KNOTS )
( TEMP = 59 F REL HUMID = 70 % . A+ . *P . )
( DELTA N = 0.0 DB )
( NO. OF RECORDS: 1 . A+ . *P . )
( IDENT: 6.6-510-105-170276-A )
( . . . . . A+ . . . . . *P . . . . . )
S 630 ( . . . . . A+ . . . . . *P . . . . . )
L 800 ( . . . . . A+ . . . . . *P . . . . . )
N 1000 ( . . . . . X . . . . . *P . . . . . )
J 1250 ( . . . . . A+ . . . . . *P . . . . . )
I 1600 ( . . . . . A+ . . . . . *P . . . . . )
S 2000 ( . . . . . X . . . . . *P . . . . . )
N 2500 ( . . . . . .X . . . . . *P . . . . . )
E 3150 ( . . . . . A+ . . . . . *P . . . . . )
I 4000 ( . . . . . A+ . . . . . *P . . . . . )
F 5000 ( . . . . . A+ . . . . . *P . . . . . )
E 6300 ( . . . . . X .X . . . . . )
E 8000 ( . . . . . X .X . . . . . )
10000 ( . . . . . X . . . . . )
12500 ( .X . . . . . )
16000 ( .X . . . . . )
20000 ( . . . . . )
25000 (-----40 50 60 70 80 90 100 110 120)

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GROUND TO GROUND  
P = PNLTY  
\* = PNL  
+ = ALT  
A = AL

```

200 (-----S-T-E-----)
    ( F-111A,E  APPROACH POWER
250 (    81 % RPM
    ( AIRSPEED = 150 KNOTS
315 (    TEMP = 59 F  REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 (    NO. OF RECORDS: 1
    ( IDENT: 6.6-510-105-170276-A
500 (
S 630 (
L 800 (
A 1000 (
N 1250 (
T 1600 (
    D 2000 (
    I 2500 (
    S 3150 (
    T 4000 (
A 5000 (
N 6300 (
C 8000 (
E 10000 (
    I 12500 (
    N 16000 (
    T 20000 (
25000 (-----X-----)

```

30 40 50 60 70 80 90 100 110  
NOISE LEVEL IN DB

FREQUENCY	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB										MEAN	SD	
	20	30	40	50	60	70	80	90					
50	.	.	.	.	.	.	.	.	.	.	.	63.9	)
63	.	.	.	.	.	.	.	.	.	.	.	64.1	)
60	.	.	.	.	.	.	.	.	.	.	.	62.8	)
100	.	.	.	.	.	.	.	.	.	.	.	73.8	)
125	.	.	.	.	.	.	.	.	.	.	.	81.7	)
160	.	.	.	.	.	.	.	.	.	.	.	82.0	)
200	.	.	.	.	.	.	.	.	.	.	.	77.9	)
250	.	.	.	.	.	.	.	.	.	.	.	77.6	)
315	.	.	.	.	.	.	.	.	.	.	.	82.5	)
400	.	.	.	.	.	.	.	.	.	.	.	83.1	)
500	.	.	.	.	.	.	.	.	.	.	.	84.2	)
630	.	.	.	.	.	.	.	.	.	.	.	83.0	)
800	.	.	.	.	.	.	.	.	.	.	.	82.5	)
1000	.	.	.	.	.	.	.	.	.	.	.	81.8	)
1250	.	.	.	.	.	.	.	.	.	.	.	81.0	)
1600	.	.	.	.	.	.	.	.	.	.	.	80.9	)
2000	.	.	.	.	.	.	.	.	.	.	.	80.4	)
2500	.	.	.	.	.	.	.	.	.	.	.	79.0	)
3150	.	.	.	.	.	.	.	.	.	.	.	77.3	)
4000	.	.	.	.	.	.	.	.	.	.	.	73.4	)
5000	.	.	.	.	.	.	.	.	.	.	.	67.5	)
6300	.	.	.	.	.	.	.	.	.	.	.	61.3	)
8000	.	.	.	.	.	.	.	.	.	.	.	55.4	)
10000	.	.	.	.	.	.	.	.	.	.	.	49.8	)

F-111A,E INTERMEDIATE POWER 86 % RPM  
 AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 103.0 PNDB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 103.0 PNDB  
 NO. OF RECORDS = 1 IDENT: 6.6-510-106-170276 ALT = 91.3 DBA  
 AL = 91.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																			
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																			
AIRCRAFT:		A/C CODE: 510																			
OPERATION:		OPS CODE: 106																			
INTERMEDIATE POWER		REL HUMID = 70 %																			
86 % RPM		PROFILE VER: A																			
AIRSPEED = 350 KNOTS		17 FEB 76																			
DELTA N = 0.0 DB		PAGE H4																			
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
200	76	78	77	88	96	92	97	98	99	98	98	97	97	97	97	96	94	90	87	87	89
250	76	76	75	86	94	90	95	96	97	96	96	95	95	95	94	94	92	87	84	84	85
315	74	74	73	84	92	88	93	94	95	94	93	93	92	93	92	92	89	85	81	80	81
400	72	72	71	82	90	86	91	92	93	92	91	91	90	91	90	89	87	82	78	76	77
500	70	70	69	80	88	84	89	89	91	90	89	88	88	88	87	86	84	79	75	72	72
630	68	68	67	78	86	82	87	87	89	87	87	86	86	86	85	84	81	75	71	67	65
800	66	66	65	76	84	80	85	85	86	85	85	84	83	83	82	81	77	72	66	62	58
1000	64	64	63	74	82	78	83	83	84	83	83	82	81	81	80	79	77	73	68	61	55
1250	62	62	61	72	80	76	81	81	82	81	80	79	78	77	76	74	69	63	55	48	40
1600	60	60	59	70	78	74	78	79	80	78	78	77	76	75	74	72	64	57	49	39	27
2000	58	58	57	68	75	72	76	76	77	76	75	74	73	72	71	68	65	59	51	41	28
2500	56	56	55	66	73	70	74	74	75	73	72	71	70	69	67	64	60	52	44	31	15
3150	54	54	53	63	71	67	71	72	72	71	70	68	66	65	63	59	54	44	35	19	5
4000	52	52	50	61	69	65	69	69	70	68	66	65	63	61	58	53	46	35	24	12	
5000	50	50	48	59	67	63	62	66	67	65	63	61	58	56	52	46	38	24	12		
6300	47	48	46	57	65	60	59	64	64	61	59	57	54	50	46	38	28	10			
8000	45	45	44	55	62	58	57	61	60	58	55	52	48	44	38	29	15				
10000	43	43	42	52	60	55	54	58	57	53	50	46	42	36	29	17	0				
12500	41	41	39	50	57	52	51	54	53	52	49	40	34	27	17	3					
16000	39	39	37	47	55	49	47	51	49	48	43	38	32	25	16	4					
20000	36	36	34	45	52	46	44	47	44	42	37	31	23	14	2						
25000	34	34	32	42	49	42	40	42	39	36	29	22	13	1							

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION					IDENTIFICATION:				
AIRCRAFT:	OPERATION:	METEOROLOGY:	TEMP	A/C CODE:	SELT**	SEL	PNLT**	EPNL**	
F-111A,E	INTERMEDIATE POWER = 86% RPM	REL HUMID = 70%	59 F	510	(DB)	(DB)	(PNDB)	(EPNDB)	
	AIRSPEED = 350 KNOTS	DELTA N = 0.0 DB		106					
				105					
				104					
				103					
				102					
				101					
				98					
				96					
				93					
				91					
				88					
				86					
				83					
				80					
				77					
				74					
				70					
				67					
				63					
				59					
				55					
				51					
				46					
				41					
				35					
				31					
				25					
				20					
				15					
				10					
				5					
200	107.6	120.8	120.8	120.8	106.5	105.3	120.8	109.5	
250	105.5	118.5	118.5	118.5	105.3	104.1	118.5	108.2	
315	103.2	116.2	116.2	116.2	104.0	102.8	116.2	106.9	
400	101.0	113.7	113.7	113.7	102.8	101.6	113.7	105.4	
500	98.6	111.2	111.2	111.2	101.5	100.3	111.2	103.9	
630	96.3	108.6	108.6	108.6	100.1	98.9	108.6	102.3	
800	93.8	105.9	105.9	105.9	98.6	97.4	105.9	100.5	
1000	91.3	103.0	103.0	103.0	97.1	95.9	103.0	99.7	
1250	88.7	100.0	100.0	100.0	95.5	94.3	100.0	96.7	
1600	86.0	96.8	96.8	96.8	93.8	92.6	96.8	94.5	
2000	83.2	93.5	93.5	93.5	92.0	90.8	93.5	92.2	
2500	80.2	90.0	90.0	90.0	90.1	88.9	90.0	89.7	
3150	77.2	86.8	86.8	86.8	88.0	85.8	86.8	87.5	
4000	74.0	83.4	83.4	83.4	85.6	84.7	83.4	84.9	
5000	70.7	79.9	79.9	79.9	83.1	82.3	79.9	82.1	
6300	67.2	76.2	76.2	76.2	80.3	79.9	76.2	79.2	
8000	63.6	72.4	72.4	72.4	77.5	77.2	72.4	76.1	
10000	59.7	68.3	68.3	68.3	74.4	74.4	68.3	72.8	
12500	55.6	64.0	64.0	64.0	71.3	71.3	64.0	69.5	
16000	51.3	59.3	59.3	59.3	67.9	67.9	59.3	65.8	
20000	46.7	54.3	54.3	54.3	64.3	64.3	54.3	61.8	
25000	41.9	48.8	48.8	48.8	60.5	60.5	48.8	57.3	

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

INTERMEDIATE POWER			
	60	70	80
200 ( (	F-111A,E		
250 ( (	86 % RPM		
315 ( (	AIRSPEED = 350 KNOTS		
400 ( (	TEMP = 59 F	KEL HUMID = 70 %	
500 ( (	DELTA N = 0.0 DB		
	NO. OF RECORDS: 1		
	IDENT: 6.6-510-106-170276-A		
S			
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T			
10000 ( (			
12500 ( (			
16000 ( (			
20000 ( (			
25000 ( (			
40	50	60	70
NOISE LEVEL IN DB			
	90	100	110
	120		





TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) IDENTIFICATION: )  
 ( ( INTERMEDIATE POWER ) TEMP = 59 F ) )  
 ( ( 86 % RPM ) REL HUMID = 70 % ) )  
 ( ( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) )  
 ( ( ) ) )

SLANT DISTANCE (FEET)

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	73	72	83	91	91	87	87	92	93	94	93	93	92	92	92	92	92	91	89	85	82	82	84
250	71	71	70	81	89	89	85	85	90	91	92	91	91	90	90	90	90	89	89	87	82	79	79	80
315	69	69	68	79	87	87	83	83	88	89	90	89	88	88	87	88	88	88	87	84	80	76	75	76
400	67	67	66	77	85	85	81	81	86	87	88	87	86	86	85	86	86	85	84	82	77	73	71	72
500	65	65	64	75	83	83	78	79	84	84	86	85	84	84	83	83	83	82	81	79	74	70	67	67
630	63	63	62	73	80	80	76	76	82	82	84	82	82	81	81	81	81	80	79	76	70	66	62	60
800	61	61	60	70	77	77	73	73	80	80	81	80	80	79	78	78	78	77	76	72	67	61	57	53
1000	59	59	58	68	74	74	70	70	77	78	79	78	78	77	76	76	75	74	72	68	63	56	50	45
1250	57	57	55	64	71	71	67	67	74	76	77	76	75	74	73	73	72	71	69	64	58	50	43	35
1600	55	54	51	61	68	68	63	64	71	74	75	73	73	72	71	70	69	67	65	59	52	44	34	22
2000	52	50	48	57	64	64	60	60	68	71	72	71	70	69	68	67	66	63	60	54	46	36	23	7
2500	48	46	44	53	60	59	55	55	64	68	70	68	67	66	65	64	62	59	55	47	39	26	10	
3150	44	42	39	48	55	54	50	50	59	63	66	66	65	63	61	60	58	54	49	39	30	14		
4000	40	37	33	42	49	49	44	44	54	59	63	62	61	60	58	56	53	48	41	30	19			
5000	35	32	29	38	44	44	40	39	48	53	58	58	58	56	53	51	47	41	33	19				
6300	29	28	24	33	40	39	35	34	42	48	54	53	53	52	49	45	41	33	23					
8000	27	25	22	31	37	37	32	32	39	44	50	50	49	47	43	39	33	24	10					
10000	25	23	20	28	35	34	29	29	36	41	47	45	44	41	37	31	24	12						
12500	23	21	17	26	32	31	26	26	32	37	42	41	39	35	29	22	12							
16000	21	19	15	23	30	29	23	22	29	33	38	35	32	27	20	11								
20000	18	16	12	21	27	25	20	19	25	29	32	29	25	18	9									
25000	16	14	10	18	24	22	16	15	20	23	26	21	16	8										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
IDENTIFICATION:									
OMEGA 6.6									
AIRCRAFT:									
OPERATION:									
INTERMEDIATE POWER = 59 F									
86 % RPM									
METEOROLOGY:									
TEMP = 70 %									
REL HUMID = 70 %									
PROFILE VER: A									
17 FEB 75									
PAGE M4									
AIRSPEED = 350 KNOTS									
DELTA N = 0.0 DB									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	102.6	103.2	115.8	116.4	100.3	102.1	105.1		
250	100.5	101.0	113.5	114.1	99.1	100.9	103.8		
315	98.2	98.8	111.2	111.7	97.8	99.6	102.4		
400	96.0	96.5	108.7	109.3	96.6	98.4	101.0		
500	93.6	94.2	106.1	106.7	95.3	97.0	99.4		
630	91.2	91.8	103.5	104.1	93.9	95.7	97.7		
800	88.8	89.4	100.7	101.3	92.4	94.2	96.0		
1000	86.2	86.8	97.7	98.3	90.9	92.7	94.0		
1250	83.6	84.2	94.5	95.1	89.2	91.0	91.8		
1600	80.8	81.4	91.1	91.7	87.4	89.2	89.4		
2000	78.0	78.5	87.5	88.1	85.6	87.4	86.8		
2500	74.6	75.4	83.6	84.2	83.5	85.2	83.9		
3150	71.4	72.0	79.4	80.0	81.0	82.8	80.7		
4000	67.6	68.1	74.9	75.4	78.3	79.7	76.9		
5000	63.4	63.7	70.0	70.3	75.0	76.1	72.5		
6300	53.7	59.0	64.7	64.9	71.3	72.1	67.9		
8000	54.4	54.5	60.3	60.4	68.0	68.4	64.1		
10000	49.7	49.7	55.4	55.4	64.3	64.3	59.9		
12500	44.6	44.6	50.0	50.0	60.2	60.2	55.5		
16000	39.0	39.0	43.4	43.4	55.6	55.6	49.9		
20000	32.9	32.9	35.8	35.8	50.5	50.5	43.3		
25000	26.1	26.1	26.8	26.8	44.8	44.8	35.3		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.





USAF  
 F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT  
 F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT  
 F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-111A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-510-001  
 AIRCRAFT CODE: 510  
 PROFILE VERSION: A  
 COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
65% RPM	594-529
80% RPM	600-605
85% RPM	606-611
MIL PWR 95% RPM	612-617
AFTERBURNER, ZONE 3 95% RPM	618-623

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY  
 NORMALIZED SPL AT 250 FEET  
 NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE  
 PERCEIVED NOISE LEVEL  
 TONE-CORRECTED, PERCEIVED NOISE LEVEL  
 A-WEIGHTED OVERALL SOUND LEVEL  
 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL  
 NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

29 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY  
 WRIGHT-PATTERSON AIR FORCE BASE, OHIO

F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT  
 F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT  
 F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT  
 F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		) OMEGA 8.2																		
DISTANCE = 250 FEET		) TEST 74-510-001																		
		) RUN 01																		
NOISE SOURCE/SUBJECT:		) METEOROLOGY:																		
( F-111A AIRCRAFT		) TEMP = 59 F																		
( ENG. TF30-P-3		) BAR PRESS = 29.92 IN HG																		
( GROUND RUNUP		) PROFILE VERSION A																		
		) REL HUMID = 70 %																		
		) 29 APR 76																		
		) DELTA N = -4.3 DB																		
		) PAGE C1																		
BAND CENTER		ANGLE (DEGREES)																		
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
50	64<	62	63	63	61	61	62	61	60	64	62	63	63	62	63	63	62	62	60<	40
63	64<	64	65	65	64	64	65	64	64	65	65	65	65	65	66	66	67	64	60<	40
80	64	70	72	71	71	73	72	71	71	70	73	73	73	73	74	74	74	72	60	40
100	63	70	71	70	70	73	70	69	70	73	74	75	74	74	74	76	72	61	41	
125	58	65	66	66	63	63	63	64	67	69	69	70	69	68	67	69	67	57	37	
160	61	67	67	65	61	61	65	66	68	70	69	70	74	71	70	70	69	58	38	
200	62	69	67	63	61	62	64	62	63	67	68	68	70	69	68	66	66	70	56	36
250	65	69	67	65	62	62	64	63	64	65	66	65	67	67	67	66	70	57	37	
315	65	71	68	67	63	63	63	60	60	62	62	62	66	68	67	71	70	59	39	
400	66	70	67	68	64	61	64	59	58	57	60	62	64	65	65	70	68	58	38	
500	66	68	69	71	66	63	65	60	62	60	61	63	63	64	65	67	69	59	39	
630	67	68	71	70	66	62	64	60	60	58	59	60	61	64	63	66	66	56	36	
800	74	76	81	77	73	71	70	68	64	63	64	62	63	66	64	66	66	57	37	
1000	74	77	79	78	75	71	71	70	65	64	63	63	63	64	63	64	65	56	36	
1250	74	77	77	77	75	72	71	68	64	61	62	62	62	63	62	63	62	54	34	
1600	89	94	94	91	86	81	82	79	76	70	68	70	68	71	75	74	73	65	45	
2000	88	93	93	91	86	82	82	79	77	74	73	74	72	74	76	77	76	67	47	
2500	80	84	83	83	80	78	75	74	71	70	70	69	72	73	69	68	67	61	41	
3150	80	84	83	82	81	77	75	73	71	70	70	69	69	68	67	66	66	60	40	
4000	83	87	86	85	85	80	78	77	75	75	74	73	74	74	72	70	69	63	43	
5000	79	82	81	79	79	75	73	72	68	69	67	68	71	70	68	65	64	55	35	
6300	76	80	79	77	77	73	71	69	66	69	68	68	71	72	68	66	64	54	34	
8000	72	75	75	73	73	69	68	65	63	67	65	65	67	67	64	62	61	50<	30	
10000	68	71	70	68	69	65	64	60	60	65	62	63	65	64	61	59	59	46	26	
OVERALL	93	98	97	96	92	88	88	85	83	83	82	83	83	84	83	84	83	74	54	

XXX< = EXTRAPOLATED OR INTERPOLATED SPL  
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNLB)										AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE										IDENTIFICATION																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180																				
200	107.7	112.4	111.8	110.4	107.6	103.9	102.7	100.6	98.7	97.7	97.5	98.4	98.8	98.2	98.3	97.3	88.6	67.9		) METEOROLOGY: ) TEMPERATURE = 59 F ) BAR PRESS = 29.92 IN HG ) REL HUMID = 70 % ) DELTA N = -4.3 DB										) AIRCRAFT CODE 510 ) OPERATION CODE 02013 ) PROFILE VERSION A ) 29 APR 76 ) PAGE 01									
250	105.5	110.2	109.6	108.1	105.3	101.5	100.5	98.5	96.4	95.3	95.2	96.1	96.5	95.9	96.1	95.1	86.3	65.6												) OMEGA 8.2 ) TEST 74-510-001 ) RUN 01									
315	103.2	107.9	107.3	105.8	102.8	99.1	98.1	96.1	93.9	92.9	92.7	93.6	94.0	93.6	93.8	92.8	84.0	63.2																					
400	100.8	105.5	104.9	103.5	100.3	96.5	95.8	93.5	91.4	90.3	90.2	91.1	91.5	91.2	91.4	90.4	81.6	60.7																					
500	98.4	103.1	102.5	101.0	97.6	94.0	93.3	91.0	88.7	88.6	87.5	88.4	88.8	88.7	88.9	87.9	79.2	58.1																					
630	95.8	100.5	99.9	98.5	95.0	91.4	90.7	88.4	86.1	85.7	84.6	85.5	86.0	86.1	86.4	85.4	76.6	55.3																					
800	93.1	97.8	97.2	95.8	92.2	88.7	88.0	85.7	83.4	82.6	81.7	82.4	83.2	83.4	83.7	82.7	73.9	52.3																					
1000	90.2	95.0	94.4	93.0	89.3	85.8	85.1	82.8	80.5	79.3	78.5	79.1	80.2	80.5	80.8	79.8	71.0	49.2																					
1250	87.2	92.0	91.4	89.9	86.2	82.6	82.0	79.7	77.4	75.9	75.3	75.8	76.9	77.4	77.8	76.8	67.9	45.3																					
1600	83.9	88.7	88.2	86.7	82.9	79.3	78.7	76.4	74.0	72.4	71.9	72.2	73.4	74.1	74.5	73.5	64.6	41.3																					
2000	80.4	85.3	84.9	83.2	79.3	75.7	75.2	72.8	70.4	68.7	68.2	68.3	69.7	70.4	71.0	69.9	60.9	35.7																					
2500	76.7	81.6	81.1	79.4	75.4	71.8	71.3	68.8	66.4	64.5	64.1	64.3	65.6	66.4	67.0	66.0	56.8	29.9																					
3150	72.7	77.6	77.2	75.2	71.1	67.4	66.9	64.4	61.9	59.9	59.4	59.2	61.1	61.9	62.7	61.7	52.3	22.4																					
4000	68.3	73.1	72.7	70.6	66.3	62.5	62.2	59.4	56.8	54.7	54.2	54.4	55.8	56.8	57.6	56.6	47.2	12.1																					
5000	63.3	68.2	67.9	65.7	61.3	56.9	57.1	54.0	51.4	48.5	47.9	48.2	49.8	51.0	51.8	51.0	40.2	1.9																					
6300	57.7	62.7	62.4	60.2	55.5	50.9	51.3	48.1	45.4	40.9	40.4	40.8	42.6	44.2	45.4	44.1	31.6																						
8000	51.5	56.5	56.2	54.0	49.3	44.0	44.9	40.6	37.2	32.1	31.4	31.0	34.1	36.0	37.5	36.3	19.7																						
10000	44.2	49.3	49.2	46.9	40.9	34.9	35.6	30.3	27.0	17.6	18.0	18.2	22.4	25.8	27.0	28.6	7.0																						
12500	33.1	39.9	39.6	36.7	30.1	20.7	22.7	15.6	8.1	3.1	4.7	5.7	6.8	8.4	16.6	18.9																							
16000	14.9	25.3	27.6	22.4	12.0	6.5	9.8								6.3	7.7																							
20000		10.7	11.3	8.2																																			
25000																																							

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	110.5	115.5	114.8	112.7	103.8	105.6	104.6	102.9	101.0	100.7	99.4	99.3	99.7	100.2	100.5	100.9	99.6	90.5	69.9
250	108.2	113.2	112.6	110.5	107.5	103.2	102.4	100.6	98.7	98.3	97.0	96.9	97.3	97.9	98.3	98.6	97.4	88.2	67.5
315	105.9	110.9	110.3	108.2	105.1	100.8	100.1	98.1	96.2	95.9	94.6	94.5	94.9	95.4	96.0	96.3	95.1	85.9	65.1
400	103.5	108.6	107.9	105.9	102.5	98.2	97.7	95.6	93.7	93.3	92.0	91.9	92.3	92.9	93.6	94.0	92.7	83.6	62.6
500	101.1	106.1	105.5	103.4	99.8	95.7	95.2	93.1	91.0	90.6	89.3	89.2	89.6	90.2	91.1	91.5	90.3	81.1	60.1
630	98.5	103.6	102.9	100.9	97.2	93.1	92.6	90.5	88.4	87.7	86.5	86.3	86.7	87.4	88.5	88.9	87.7	78.5	57.2
800	95.3	100.9	100.2	98.2	94.4	90.3	89.9	87.8	85.7	84.6	83.4	83.4	83.6	84.6	85.7	86.2	85.0	75.8	54.3
1000	92.9	98.0	97.4	95.4	91.6	87.5	87.0	84.9	82.8	81.2	80.2	80.4	80.4	81.5	82.8	83.4	82.1	72.9	51.1
1250	89.9	95.0	94.4	92.3	88.5	84.3	84.0	81.8	79.7	77.9	77.0	77.3	77.1	78.3	79.7	80.3	79.1	69.8	47.2
1600	86.6	91.7	91.2	89.1	85.1	81.0	80.7	78.5	76.3	74.4	73.6	73.9	73.5	74.8	76.4	77.1	75.8	66.5	43.2
2000	83.2	88.3	87.8	85.6	81.5	77.4	77.1	74.9	72.7	70.7	69.9	70.1	69.6	71.1	72.8	73.5	72.3	62.8	37.7
2500	79.4	84.7	84.1	81.8	77.6	73.5	73.2	70.9	68.7	66.5	65.8	66.0	65.2	67.0	68.8	69.6	68.4	58.7	31.9
3150	75.4	80.7	80.2	77.6	73.3	69.0	68.9	66.5	64.2	61.9	61.1	61.4	60.5	62.5	64.3	65.2	64.0	54.2	24.3
4000	70.4	75.6	75.1	72.5	68.0	63.8	63.8	61.1	58.7	56.3	55.5	55.8	54.8	56.9	58.7	59.6	58.5	48.7	13.7
5000	64.9	70.1	69.7	67.1	62.6	57.9	58.3	55.2	52.8	49.7	49.0	49.2	48.4	50.6	52.4	53.3	52.4	41.4	3.0
6300	58.8	63.9	63.6	61.2	56.4	51.6	52.1	48.9	46.3	41.7	41.1	41.5	40.1	43.1	45.2	46.4	45.1	32.4	
8000	52.0	57.1	56.8	54.5	49.7	44.4	45.3	41.0	37.7	32.5	31.7	32.5	31.3	34.4	36.5	38.0	36.8	20.1	
10000	44.2	49.3	49.2	46.9	40.9	34.9	35.6	30.3	27.0	17.6	18.0	18.9	18.2	22.4	25.8	27.0	28.6	7.8	
12500	33.1	39.9	39.6	36.7	30.1	20.7	22.7	15.6	8.1	3.1	4.7	5.7	5.3	6.8	8.4	16.6	18.9		
16000	14.9	25.3	27.6	22.4	12.0	6.5	9.8	.9								6.3	7.7		
20000	10.7	11.3	11.3	8.2															
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D9A)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	METEOROLOGY:																			
F-111A AIRCRAFT																				
ENG. TF30-P-3																				
GROUND RUNUP																				
RE F-111F LEVELS -1.303																				
DELTA N = -4.3 DB																				
PAGE F1																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-510-001																				
RUN 01																				
AIRCRAFT CODE 510																				
OPERATION CODE 02013																				
PROFILE VERSION A																				
29 APR 76																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	96.3	101.2	100.5	98.7	95.2	91.1	90.3	88.1	85.5	83.9	82.9	82.8	83.5	84.5	84.3	84.0	83.1	81.8	80.9	75.1
250	94.1	99.0	98.3	96.5	93.0	88.9	88.1	85.9	83.3	81.6	80.6	80.5	81.1	82.2	82.1	81.8	80.9	79.6	78.7	72.9
315	91.8	96.8	96.1	94.3	90.7	86.6	85.9	83.6	81.0	79.2	78.2	78.1	78.7	79.8	79.8	79.6	78.7	77.7	76.4	70.7
400	89.5	94.5	93.8	92.0	88.3	84.2	83.5	81.2	78.6	76.8	75.8	75.7	76.2	77.3	77.5	77.3	76.4	75.4	74.4	68.4
500	87.2	92.1	91.5	89.6	85.9	81.8	81.1	78.8	76.2	74.2	73.3	73.2	73.6	74.8	75.0	75.0	74.1	73.0	72.0	66.0
630	84.7	89.7	89.1	87.2	83.5	79.3	78.7	76.3	73.7	71.5	70.7	70.6	70.9	72.2	72.5	72.5	71.7	70.5	69.5	63.5
800	82.2	87.2	86.6	84.6	80.7	76.6	76.1	73.7	71.1	68.8	67.9	67.8	68.1	69.4	70.0	70.0	69.2	68.0	67.0	61.0
1000	75.5	84.6	84.0	82.0	77.9	73.9	73.4	70.9	68.3	65.9	65.0	65.0	65.1	66.6	67.2	67.4	66.5	65.3	64.3	58.3
1250	76.7	81.8	81.2	79.2	75.0	70.9	70.6	68.1	65.5	62.8	62.0	62.0	62.0	63.6	64.4	64.6	63.8	62.5	61.5	55.5
1500	73.8	78.8	78.3	76.2	72.0	67.9	67.6	65.0	62.4	59.5	58.8	58.8	58.7	60.4	61.4	61.7	60.9	59.5	58.5	52.5
2000	70.6	75.7	75.2	73.1	68.7	64.6	64.4	61.8	59.2	56.1	55.4	55.5	55.3	57.1	58.2	58.6	57.9	56.5	55.5	49.4
2500	67.2	72.3	71.8	69.7	65.2	61.1	61.0	58.3	55.7	52.5	51.8	51.9	51.6	53.5	54.7	55.2	54.5	53.0	52.0	46.0
3150	63.4	68.5	68.1	65.9	61.4	57.3	57.3	54.6	51.9	48.5	47.9	48.1	47.7	49.7	51.0	51.5	50.9	49.3	48.3	42.3
4000	59.3	64.4	64.0	61.8	57.3	53.1	53.2	50.5	47.7	44.3	43.7	43.9	43.5	45.5	46.8	47.4	46.9	45.4	44.4	38.2
5000	54.7	59.7	59.5	57.2	52.7	48.5	48.7	45.9	43.1	39.7	39.1	39.3	38.9	40.9	42.2	42.8	42.4	41.0	40.0	34.0
6300	49.5	54.5	54.3	52.0	47.5	43.4	43.6	40.8	38.0	34.6	34.1	34.3	33.9	35.9	37.1	37.7	37.5	36.0	35.0	29.0
8000	43.7	48.5	48.6	46.3	41.9	37.9	38.1	35.3	32.5	29.3	29.0	29.1	29.1	31.0	31.8	32.7	32.7	31.6	30.6	24.6
10000	37.2	41.8	42.2	39.9	35.7	31.8	32.0	29.3	26.5	23.7	23.6	23.8	24.0	25.9	26.2	27.6	27.6	26.8	25.8	19.8
12500	30.1	34.2	35.3	33.0	28.9	25.4	25.5	22.9	20.2	17.9	18.2	18.5	18.9	20.6	20.6	22.4	22.4	21.6	20.6	14.6
16000	22.5	26.6	28.0	25.8	21.8	18.5	18.7	16.1	13.8	12.1	12.6	13.1	13.6	15.2	15.1	17.2	17.2	16.4	15.4	9.4
20000	14.8	17.7	20.3	18.3	14.4	11.4	11.8	9.0	7.4	6.2	6.9	7.6	8.2	9.6	9.6	11.8	12.3	11.4	10.4	4.4
25000	6.9	9.6	12.2	10.6	6.6	3.9	4.7	1.7	1.0	.5	1.3	2.2	2.9	3.9	4.0	6.2	6.2	5.4	4.4	0.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 510  
F-111A AIRCRAFT ( IDLE, 65% RPM, F-111A ) TEMP ) OPERATION CODE 02013  
ENG. TF30-P-3 ( SINGLE ENGINE, TF30-P-3 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A  
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 29 APR 76  
( RE F-111F LEVELS -1.308 ) DELTA N = -4.3 DB ) PAGE 61

( DISTANCE ) ANGLE (DEGREES)

( FEET )	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
( 200 )	99.0	104.2	107.5	101.1	97.4	92.8	92.2	90.2	87.8	85.9	84.6	84.5	84.7	85.9	86.7	86.6	85.4	85.4	77.0	57.0
( 250 )	96.8	102.0	101.3	98.9	95.2	90.6	90.0	87.9	85.6	83.6	82.3	82.2	82.4	83.6	84.4	84.4	83.3	83.3	74.8	54.8
( 315 )	94.6	99.8	99.1	96.6	92.9	88.3	87.8	85.7	83.3	81.2	79.9	79.5	80.0	81.2	82.2	82.2	81.0	81.0	72.6	52.6
( 400 )	92.3	97.5	96.8	94.4	90.5	85.9	85.4	83.3	80.9	78.7	77.5	77.4	77.5	78.7	79.8	79.9	78.7	78.7	70.3	50.3
( 500 )	89.9	95.2	94.5	92.0	88.1	83.5	83.1	80.9	78.5	76.2	75.0	74.9	74.9	76.2	77.4	77.5	76.4	76.4	67.9	47.9
( 630 )	87.4	92.8	92.1	89.6	85.5	80.9	80.6	78.4	76.0	73.5	72.4	72.3	72.2	73.6	74.9	75.1	74.0	74.0	65.5	45.5
( 800 )	84.9	90.2	89.6	87.0	82.9	78.3	78.0	75.8	73.4	70.7	69.6	69.6	69.4	70.8	72.3	72.6	71.5	71.5	62.9	42.9
( 1000 )	82.2	87.6	87.0	84.4	80.2	75.5	75.3	73.0	70.6	67.8	66.7	66.7	66.4	68.0	69.6	70.0	68.9	68.9	60.2	40.2
( 1250 )	79.4	84.8	84.2	81.6	77.2	72.6	72.5	70.2	67.8	64.8	63.7	63.7	63.3	65.0	66.7	67.2	66.1	66.1	57.4	37.4
( 1600 )	76.5	81.9	81.3	78.6	74.2	69.6	69.5	67.1	64.7	61.5	60.5	60.6	60.0	61.8	63.7	64.3	63.2	63.2	54.5	34.5
( 2000 )	73.3	78.7	78.2	75.5	70.9	66.3	66.4	63.9	61.4	58.1	57.1	57.2	56.6	58.5	60.5	61.2	60.2	60.2	51.3	31.3
( 2500 )	69.9	75.3	74.8	72.1	67.4	62.8	62.9	60.4	58.0	54.4	53.5	53.7	52.9	54.9	57.1	57.8	56.8	56.8	47.9	27.9
( 3150 )	66.2	71.6	71.1	68.3	63.6	59.0	59.2	56.6	54.2	50.5	49.6	49.8	49.0	51.1	53.3	54.1	53.2	53.2	44.2	24.2
( 4000 )	61.5	66.8	66.5	63.7	59.0	54.5	54.8	52.1	49.6	45.9	45.0	45.3	44.5	46.6	48.7	49.4	48.7	48.7	39.7	19.7
( 5000 )	56.4	61.6	61.3	58.7	54.0	49.6	49.8	47.2	44.5	40.8	40.1	40.3	39.6	41.8	43.6	44.3	43.8	43.8	34.8	14.8
( 6300 )	50.6	55.7	55.5	53.0	48.4	44.1	44.4	41.7	38.9	35.4	34.7	35.0	34.4	36.5	38.0	38.8	38.4	38.4	29.4	9.4
( 8000 )	44.3	49.1	49.2	46.8	42.3	38.2	38.4	35.8	32.9	29.6	29.3	29.5	29.3	31.3	32.2	33.2	33.2	33.2	24.0	4.0
( 10000 )	37.2	41.8	42.2	39.9	35.7	31.8	32.0	29.3	26.5	23.7	23.6	23.8	24.0	25.9	26.2	27.6	27.6	27.6	18.4	8.4
( 12500 )	30.1	34.2	35.3	32.0	28.9	25.4	25.5	22.9	20.2	17.9	18.2	18.5	18.9	20.6	20.6	22.4	22.4	22.4	13.2	3.2
( 16000 )	22.5	26.0	26.0	25.8	21.8	18.5	18.8	16.1	13.8	12.1	12.6	13.1	13.6	15.2	15.1	17.2	17.2	17.2	7.8	7.8
( 20000 )	14.8	17.7	20.3	18.3	14.4	11.4	11.8	9.0	7.4	6.2	6.9	7.6	8.2	9.6	9.6	11.8	12.3	12.3	2.1	2.1
( 25000 )	6.9	9.6	12.2	10.6	6.6	3.9	4.7	1.7	1.0	.5	1.3	2.2	2.9	3.9	3.9	6.2	6.2	6.2	6.4	6.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-111A AIRCRAFT  
 ENG. TF30-P-3  
 GROUND RUNUP  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-510-001  
 RUN 01  
 AIRCRAFT CODE 510  
 OPERATION CODE 02013  
 PROFILE VERSION A  
 29 APR 76  
 PAGE J1  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -4.3 DB  
 P=PNLT A=AL T=ALT

ANGLE	0	10	20	30	40	50	60	70	80	90	100	110	120
A	.	.	.	.	.	.	.	.	.	.	.	.	.
N	.	.	.	.	.	.	.	.	.	.	.	.	.
G	.	.	.	.	.	.	.	.	.	.	.	.	.
L	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
I	.	.	.	.	.	.	.	.	.	.	.	.	.
N	.	.	.	.	.	.	.	.	.	.	.	.	.
D	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
G	.	.	.	.	.	.	.	.	.	.	.	.	.
R	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
130	.	.	.	.	.	.	.	.	.	.	.	.	.
140	.	.	.	.	.	.	.	.	.	.	.	.	.
150	.	.	.	.	.	.	.	.	.	.	.	.	.
160	.	.	.	.	.	.	.	.	.	.	.	.	.
170	.	.	.	.	.	.	.	.	.	.	.	.	.
>180	.	.	.	.	.	.	.	.	.	.	.	.	.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 510																		
F-111A AIRCRAFT ( 80% RPM, F-111A ) TEMP = 59 F ) OPERATION CODE 02019																		
ENG. TF30-P-3 ( SINGLE ENGINE, TF30-P-3 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																		
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 29 APR 76																		
( RE F-111F LEVELS -1.3DB ) DELTA N = -4.3 DB ) PAGE C2																		
BAND CENTER																		
FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 >170 >180																		
ANGLE (DEGREES)																		
50	72	71	73	71	73	74	74	75	76	78	80	82	87	91	92	90	80	70
63	75	74	74	75	74	76	77	78	78	79	81	84	90	95	96	92	82	72
80	76	76	78	79	78	79	79	82	80	81	84	86	92	96	98	93	83	73
100	76	78	80	83	81	82	81	83	84	86	87	88	94	99	102	99	89	79
125	78	79	81	81	80	80	82	83	84	85	87	88	92	96	102	98	88	78
160	81	81	81	80	79	81	83	85	85	86	88	90	93	95	100	99	89	79
200	80	81	81	79	79	79	80	82	82	84	86	88	91	94	94	95	85	75
250	80	81	81	81	79	80	82	83	82	82	82	84	87	92	90	91	81	71
315	79	80	80	79	78	78	78	79	76	78	79	82	86	88	89	88	78	68
400	79	79	80	80	76	75	74	73	74	77	77	79	83	85	86	84	74	64
500	79	78	80	79	73	74	74	75	73	78	78	77	81	83	84	82	72	62
630	79	77	80	79	75	76	75	75	75	75	78	77	81	81	82	80	70	60
800	78	77	80	78	74	74	75	75	74	74	77	76	80	79	80	77	67	57
1000	79	80	81	78	76	76	76	74	74	74	77	75	79	78	78	74	64	54
1250	85	84	85	82	81	80	78	76	74	75	75	75	77	76	76	73	63	53
1600	88	87	87	86	84	82	81	80	77	74	75	75	77	76	76	72	62	52
2000	87	85	86	86	83	82	80	79	76	75	76	75	77	76	75	72	62	52
2500	95	93	93	92	89	87	85	82	79	77	77	75	77	76	76	74	64	54
3150	98	96	96	96	94	92	91	90	88	85	84	80	81	79	80	79	69	59
4000	91	89	90	88	88	86	85	83	83	84	85	82	82	79	78	76	66	56
5000	91	88	89	87	87	85	83	79	77	77	76	75	75	74	73	72	62	52
6300	90	88	88	87	86	84	83	84	80	79	77	75	75	74	73	72	62	52
8000	85	83	83	82	81	79	78	75	76	76	75	74	73	72	71	70	60	50
10000	81	80	79	78	78	75	74	71	74	74	72	69	70	69	68	67	57	47
OVERALL	102	100	101	99	98	96	95	96	94	94	95	96	97	101	105	108	105	85

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATIONS:																			
	METEOROLOGY:																			
F-111A AIRCRAFT	80% RPM, F-111A																			
ENG. TF30-P-3	SINGLE ENGINE, TF30-P-3																			
GROUND RUNUP	ESTIMATED NOISE LEVELS																			
	RE F-111F LEVELS -1.3DB																			
	RE F-111F LEVELS -1.3DB																			
	DELTA N = -4.3 DB																			
	PAGE 02																			
	AIR CRAFT CODE 510																			
	OPERATION CODE 02019																			
	PROFILE VERSION A																			
	29 APR 76																			
	PAGE 02																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-510-001																				
RUN 02																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	119.3	118.0	118.2	117.0	116.0	114.0	112.9	112.8	110.7	108.8	108.9	109.4	108.3	110.0	110.2	112.4	110.3	100.2	90.0	
250	116.9	115.7	115.9	114.7	113.7	111.7	110.6	110.5	108.4	106.5	106.6	107.1	106.0	107.8	108.1	110.3	108.2	98.1	87.8	
315	114.6	113.3	113.5	112.4	111.3	109.3	108.2	108.1	106.1	104.1	104.3	104.7	103.7	105.4	105.9	108.1	106.1	95.9	85.6	
400	112.1	110.8	111.0	109.9	108.8	106.9	105.8	105.7	103.6	101.7	101.8	102.2	101.2	103.0	103.7	105.9	103.8	93.6	83.2	
500	109.5	108.2	108.4	107.3	106.2	104.3	103.2	103.1	101.3	99.1	99.3	99.6	98.6	100.5	101.4	103.6	101.4	91.1	80.6	
630	106.7	105.5	105.7	104.6	103.5	101.5	100.4	100.3	98.3	96.4	96.5	96.8	95.8	97.7	99.1	101.1	98.8	88.6	77.8	
800	103.8	102.6	102.8	101.7	100.5	98.6	97.5	97.4	95.4	93.4	93.6	93.8	92.9	94.9	96.5	98.6	96.1	85.8	74.9	
1000	100.7	99.4	99.7	98.6	97.4	95.5	94.4	94.3	92.3	90.3	90.5	90.7	89.7	91.9	93.6	95.7	93.2	82.7	71.8	
1250	97.3	96.0	96.3	95.2	94.0	92.1	91.0	90.9	88.9	86.9	87.1	87.4	86.1	88.6	90.4	92.6	90.1	79.4	68.4	
1600	93.6	92.3	92.6	91.5	90.2	88.4	87.3	87.2	85.2	83.2	83.4	83.7	82.5	85.0	86.9	89.1	86.6	75.7	64.7	
2000	89.5	88.2	88.6	87.4	86.1	84.3	83.2	83.1	81.2	79.1	79.3	79.7	78.5	81.1	82.8	85.3	82.7	71.7	60.5	
2500	84.9	83.7	84.0	82.9	81.5	79.7	78.6	78.5	76.7	74.6	74.7	75.2	74.1	76.8	78.3	80.6	78.2	67.2	55.7	
3150	79.7	78.5	78.9	77.8	76.3	74.6	73.5	73.3	71.6	69.5	69.7	70.2	69.1	72.4	73.7	75.5	73.2	62.1	51.0	
4000	74.3	73.0	73.4	72.4	70.4	68.7	67.6	67.5	65.7	63.5	63.8	64.4	64.0	67.7	68.8	70.1	67.9	56.8	44.1	
5000	68.3	67.0	67.4	66.4	64.0	62.6	61.3	61.2	59.2	57.0	57.3	59.2	58.8	62.6	63.7	65.0	62.7	51.0	37.9	
6300	61.6	60.2	60.7	59.7	57.2	56.1	55.0	54.5	52.9	50.8	51.0	53.5	53.1	57.1	58.2	59.7	57.2	44.9	28.4	
8000	54.9	54.1	54.7	53.4	50.7	49.8	48.5	47.9	47.2	45.4	45.5	48.5	48.0	52.6	54.0	55.6	53.1	39.7	20.1	
13000	47.6	46.6	47.3	45.7	42.5	41.6	40.7	41.1	41.0	39.1	39.4	42.9	42.5	47.5	49.3	51.1	48.5	34.6	10.0	
12500	38.8	38.1	39.9	38.4	34.0	34.0	33.2	33.4	34.0	31.7	32.1	36.2	36.3	42.1	44.1	46.1	43.4	28.3		
16000	30.8	30.1	32.3	30.6	23.7	24.3	22.5	23.7	25.4	20.8	20.2	29.1	29.5	35.8	38.5	40.6	37.7	17.3		
20000	18.6	17.4	21.7	18.9	13.3	10.2	9.7	11.7	11.1	9.9	8.3	16.9	17.3	25.7	32.1	34.9	31.5	6.2		
25000	6.5	4.7	7.6	7.1	2.9							4.7	5.2	12.2	21.9	27.0	24.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	80% RPM, F-111A																			
F-111A AIRCRAFT	SINGLE ENGINE, TF30-P-3																			
	ESTIMATED NOISE LEVELS																			
ENG. TF30-P-3	RE F-111F LEVELS -1.3DB																			
	DELTA N = -4.3 DB																			
GROUND RUNUP	METEOROLOGY:																			
	TEMP = 59 F																			
	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
	AIRCRAFT CODE 510																			
	OPERATION CODE 02019																			
	PROFILE VERSION A																			
	29 APR 76																			
	PAGE E2																			
	IDENTIFICATION:																			
	OMEGA 8.2																			
	TEST 74-510-001																			
	RUN 02																			
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	121.3	120.0	118.9	117.9	115.8	114.7	114.5	112.5	110.1	110.1	110.1	111.0	109.9	111.4	110.2	113.5	111.6	101.5	91.2	
250	119.0	117.7	116.6	115.6	113.5	112.5	112.2	110.2	107.8	107.8	107.8	108.7	107.6	109.1	108.1	111.4	109.5	99.3	89.1	
315	115.6	115.3	115.4	114.2	111.1	110.1	109.9	107.8	105.4	105.4	105.5	106.3	105.2	106.8	105.9	109.3	107.3	97.1	86.8	
400	114.1	112.8	112.9	111.7	110.8	108.6	107.8	105.4	103.0	103.0	103.0	103.8	102.7	104.4	103.7	107.1	105.0	94.8	84.4	
500	111.5	110.2	110.3	109.2	108.2	106.0	105.0	104.8	102.8	102.8	102.8	103.2	102.1	103.8	102.6	104.8	102.6	92.4	81.8	
630	108.8	107.5	107.6	105.4	105.4	103.3	102.3	102.1	100.1	97.7	97.6	98.4	97.4	99.1	99.1	102.3	100.1	89.8	79.0	
800	105.8	104.6	104.7	103.5	102.5	100.4	99.4	99.1	97.2	94.7	94.8	95.4	94.4	96.2	96.2	99.7	97.3	87.0	76.1	
1000	102.7	101.4	101.6	100.4	99.3	97.2	96.3	96.0	94.1	91.6	91.7	92.3	91.2	93.3	93.3	96.9	94.5	84.0	73.0	
1250	99.3	98.0	98.2	97.0	95.9	93.8	92.9	92.6	90.7	88.2	88.3	88.9	87.6	90.0	90.0	93.7	91.3	80.6	69.6	
1600	95.6	94.3	94.5	93.3	92.2	90.1	89.1	88.9	87.0	84.5	84.6	85.2	84.0	86.4	86.4	90.3	87.8	77.0	65.9	
2000	91.5	90.2	90.4	89.3	88.1	86.0	85.1	84.8	83.0	80.4	80.5	81.3	80.0	82.4	82.4	86.4	83.9	73.0	61.8	
2500	86.9	85.7	85.9	84.7	83.5	81.5	80.5	80.2	78.4	75.8	76.0	76.8	75.6	78.1	78.3	81.8	79.4	68.5	56.9	
3150	81.7	80.5	80.8	79.6	78.3	76.3	75.3	75.1	73.3	70.8	70.9	71.8	70.6	73.8	73.7	76.7	74.4	63.3	51.3	
4000	75.9	74.5	74.8	73.9	72.0	70.1	69.1	68.8	67.1	64.5	64.7	65.7	65.3	68.8	68.8	71.1	68.9	57.8	45.1	
5000	69.5	68.2	68.5	67.5	65.1	63.6	62.4	62.2	60.3	57.8	58.0	60.1	59.7	63.4	63.7	65.7	63.5	51.7	38.6	
6300	62.4	61.0	61.5	60.5	58.0	56.8	55.8	55.1	53.6	51.3	51.5	54.1	53.7	57.6	58.2	60.1	57.7	45.4	28.9	
8000	55.3	54.5	55.1	53.8	51.1	50.1	48.9	48.2	47.5	45.7	45.7	48.8	48.3	52.3	54.0	55.9	53.4	40.0	20.3	
10000	47.6	46.6	47.3	45.7	42.5	41.6	40.7	41.1	41.0	39.1	39.4	42.9	42.5	47.5	49.3	51.1	48.5	34.6	10.0	
12500	38.8	38.1	39.9	38.4	34.0	34.1	33.2	33.4	34.0	31.7	32.1	36.2	36.3	42.1	44.1	46.1	43.4	28.3		
16000	30.8	30.1	32.3	30.6	23.7	24.3	22.5	23.7	25.4	20.8	20.2	29.1	29.5	35.8	38.5	40.6	37.7	17.3		
20000	18.6	17.4	21.7	18.9	13.3	10.2	9.7	11.7	11.1	9.9	8.3	16.9	17.3	28.7	32.1	34.9	31.5	6.2		
25000	6.5	4.7	7.6	7.1	2.9							4.7	5.2	12.2	21.9	27.0	24.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.8	103.3	103.4	102.2	101.0	99.0	97.5	97.4	94.7	92.9	93.1	93.3	91.9	93.0	94.4	95.0	94.4	84.4	74.4
250	102.5	101.0	101.1	99.9	98.7	96.6	95.2	95.1	92.4	90.6	90.8	91.0	89.6	91.6	92.3	94.0	92.3	82.3	72.3
315	100.1	98.6	98.7	97.6	96.3	94.3	92.8	92.7	90.1	88.2	88.4	88.7	87.3	89.4	90.2	91.9	90.3	80.3	70.3
400	97.7	96.1	96.3	95.1	93.9	91.8	90.4	90.2	87.6	85.7	86.0	86.2	85.0	87.2	88.0	89.7	88.1	78.1	68.1
500	95.1	93.6	93.7	92.6	91.3	89.2	87.8	87.6	85.1	83.2	83.4	83.7	82.5	84.8	85.7	87.5	85.8	75.8	65.8
630	92.4	90.9	91.1	89.9	88.6	86.5	85.1	84.9	82.4	80.5	80.7	81.1	80.0	82.4	83.3	85.1	83.4	73.4	63.4
800	89.6	88.1	88.2	87.1	85.7	83.7	82.3	82.1	79.6	77.5	77.8	78.3	77.3	79.8	80.8	82.6	80.8	70.8	60.8
1000	86.6	85.1	85.3	84.1	82.7	80.7	79.3	79.0	76.6	74.6	74.8	75.5	74.5	77.2	78.2	80.0	78.2	68.2	58.2
1250	83.3	81.9	82.1	81.0	79.4	77.5	76.1	75.8	73.5	71.5	71.6	72.4	71.6	74.4	75.4	77.1	75.3	65.3	55.3
1600	79.9	78.4	78.7	77.6	75.9	74.0	72.6	72.4	70.2	68.1	68.3	69.3	68.5	71.5	72.4	74.1	72.2	62.2	52.2
2000	76.1	74.7	75.0	73.9	72.1	70.3	69.0	68.7	66.6	64.6	64.8	66.0	65.3	68.5	69.4	70.9	69.0	59.0	49.0
2500	72.0	70.7	71.1	69.9	68.0	66.4	65.0	64.8	62.8	61.0	61.0	62.6	61.9	65.2	65.9	67.3	65.3	55.3	45.3
3150	67.6	66.4	66.8	65.6	63.6	62.2	60.8	60.6	58.9	57.1	57.1	59.0	58.3	61.7	62.2	63.5	61.4	51.4	41.4
4000	62.9	61.7	62.3	61.0	58.8	57.6	56.4	56.1	54.7	53.0	53.0	55.1	54.4	57.8	58.1	59.3	57.1	47.1	37.1
5000	57.7	56.8	57.5	56.0	53.8	52.8	51.6	51.4	50.2	48.6	48.6	50.9	50.2	53.6	53.8	54.9	52.7	42.7	32.7
6300	52.3	51.5	52.4	50.8	48.6	47.8	46.6	46.5	45.5	44.0	44.0	46.5	45.7	49.2	49.3	50.4	48.1	38.1	28.1
8000	46.9	46.3	47.3	45.6	43.3	42.8	41.8	41.8	41.1	39.8	39.8	42.4	41.7	45.4	45.7	47.0	44.7	34.7	24.7
10000	41.3	40.8	42.1	40.4	37.8	37.6	36.7	36.9	36.6	35.3	35.3	38.0	37.5	41.3	41.9	43.3	41.2	31.2	21.2
12500	35.5	35.0	36.6	34.9	32.1	32.1	31.4	31.7	31.7	30.5	30.5	33.4	33.1	36.9	37.8	39.5	37.5	27.5	17.5
16000	29.5	29.1	30.8	29.3	26.2	26.4	25.9	26.3	26.6	25.4	25.5	28.4	28.4	32.2	33.7	35.7	33.6	23.6	13.6
20000	23.4	23.0	24.7	23.5	20.1	20.4	20.2	20.7	21.2	20.0	20.4	23.1	23.5	27.4	29.4	31.8	29.7	19.7	9.7
25000	17.0	16.7	18.3	17.3	14.0	14.3	14.3	14.9	15.6	14.6	15.3	17.7	18.7	22.6	25.2	27.9	25.7	15.7	5.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-111A AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. TF30-P-3	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = -4.3 DB																		
	ANGLE (DEGREES)																		
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.8	105.3	105.2	104.1	103.0	100.7	99.4	99.1	96.5	94.2	94.4	94.8	93.4	95.2	94.4	97.2	95.7	85.7	75.7
250	104.5	103.0	102.9	101.8	100.7	98.4	97.1	96.8	94.2	91.9	92.0	92.6	91.1	93.0	92.3	95.1	93.6	83.6	73.6
315	102.2	100.6	100.6	99.4	98.3	96.0	94.7	94.4	91.3	89.5	89.6	90.2	88.8	90.8	90.2	93.0	91.5	81.5	71.5
400	99.7	98.1	98.1	97.0	95.8	93.6	92.2	91.9	89.4	87.0	87.2	87.3	86.5	88.5	88.0	90.9	89.3	79.3	69.3
500	97.1	95.6	95.6	94.4	93.2	91.0	89.7	89.4	86.9	84.5	84.6	85.3	84.0	86.2	85.7	88.6	87.0	77.0	67.0
630	94.4	92.9	92.9	91.8	90.5	88.3	87.0	86.6	84.2	81.8	81.9	82.5	81.5	83.8	83.3	86.3	84.6	74.6	64.6
800	91.6	90.1	90.1	89.0	87.7	85.5	84.1	83.8	81.4	78.9	79.1	79.3	79.8	81.2	80.8	83.8	82.1	72.1	62.1
1000	88.6	87.1	87.1	86.0	84.6	82.4	81.1	80.6	78.4	75.9	76.1	77.0	76.0	78.6	78.2	81.1	79.4	69.4	59.4
1250	85.4	83.9	83.9	82.8	81.3	79.2	77.9	77.5	75.3	72.8	72.9	74.0	73.1	75.8	75.4	78.3	76.5	66.5	56.5
1600	81.9	80.4	80.5	79.4	77.8	75.8	74.5	74.1	71.9	69.4	69.5	70.3	70.0	72.9	72.4	75.2	73.4	63.4	53.4
2000	78.1	76.7	76.9	75.7	74.0	72.1	70.8	70.4	68.4	65.9	66.0	67.5	66.9	69.8	69.4	72.0	70.2	60.2	50.2
2500	74.1	72.7	72.9	71.8	69.9	68.1	66.9	66.5	64.6	62.2	62.2	64.1	63.4	66.6	65.9	68.5	66.6	56.6	46.6
3150	69.7	68.4	68.7	67.5	65.5	63.9	62.7	62.3	60.6	58.4	58.3	60.5	59.8	63.0	62.2	64.7	62.6	52.6	42.6
4000	64.5	63.3	63.8	62.5	60.4	59.1	57.9	57.5	56.1	54.0	54.0	56.4	55.6	58.9	58.1	60.2	58.1	48.1	38.1
5000	59.0	58.0	58.6	57.1	55.0	53.9	52.7	52.5	51.2	49.4	49.4	51.8	51.1	54.4	53.8	55.6	53.4	43.4	33.4
6300	53.1	52.3	53.1	51.5	49.4	48.5	47.4	47.2	46.2	44.8	44.5	47.1	46.3	49.7	49.3	50.9	48.6	38.6	28.6
8000	47.3	46.7	47.7	46.0	43.7	43.1	42.1	42.1	41.5	40.0	40.0	42.7	42.0	45.6	45.7	47.2	45.0	35.0	25.0
10000	41.3	40.8	42.1	40.4	37.8	37.6	36.7	36.9	36.6	35.3	35.3	38.0	37.5	41.3	41.9	43.3	41.2	31.2	21.2
12500	35.5	35.0	35.6	34.9	32.1	32.1	31.4	31.7	31.7	30.5	30.5	33.4	33.1	36.9	37.8	39.5	37.5	27.5	17.5
16000	29.5	29.1	30.6	29.3	26.2	26.4	25.9	26.3	26.6	25.4	25.5	28.4	28.4	32.2	33.7	35.7	33.6	23.6	13.6
20000	23.4	23.0	24.7	23.5	20.1	20.4	20.2	20.7	21.2	20.0	20.4	23.1	23.5	27.4	29.4	31.8	29.7	19.7	9.7
25000	17.0	16.7	18.3	17.3	14.0	14.3	14.3	14.9	15.6	14.6	15.3	17.7	18.7	22.6	25.2	27.9	25.7	15.7	5.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-510-001  
 RUN 02  
 AIRCRAFT CODE 510  
 OPERATION CODE 02019  
 PROFILE VERSION A  
 29 APR 76  
 PAGE J2

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:  
 F-111A AIRCRAFT  
 ENG. TF30-P-3  
 GROUND RUNUP

OPERATIONS:  
 80% RPM, F-111A  
 SINGLE ENGINE, TF30-P-3  
 ESTIMATED NOISE LEVELS  
 RE F-111F LEVELS -1.3DB

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -4.3 DB

P=PNLT  
 A=AL  
 T=ALT

ANGLE	0	10	20	30	40	50	60	70	80	90	100	110	120
A													
N													
G													
L													
E													
I													
N													
D													
E													
G													
R													
E													
E													
S													
130													
140													
150													
160													
>170													
>180													

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)														
1/3 OCTAVE BAND														
DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 510														
F-111A AIRCRAFT ( 85% RPM, F-111A ) TEMP = 59 F ) OPERATION CODE 01018														
ENG. TF30-P-3 ( SINGLE ENGINE, TF30-P-3 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A														
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 29 APR 76														
( RE F-111F LEVELS -1.3JB ) DELTA N = -1.3 DB ) PAGE C3														
BAND CENTER														
FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180														
ANGLE (DEGREES)														
50 73 76 75 76 77 78 78 80 80 83 84 89 93 99 101 100 90 80														
63 76 78 79 79 79 80 80 80 80 83 84 87 92 97 103 105 101 91 91														
80 77 80 82 81 82 84 84 85 86 88 90 94 97 102 109 112 106 96 86														
125 81 84 85 85 84 84 84 84 84 88 90 94 97 102 106 112 108 98 88														
160 83 87 87 85 84 84 55 86 89 91 93 96 101 105 106 114 111 101 91														
200 84 87 85 85 83 84 85 85 86 88 92 94 99 104 108 109 108 98 88														
250 84 86 86 87 85 86 87 86 86 86 89 92 95 100 106 100 104 99 89														
315 83 86 87 87 84 85 87 84 84 84 87 91 94 98 101 104 99 89 79														
400 84 86 87 86 83 82 82 79 79 83 84 89 92 95 97 102 95 85 75														
500 84 84 85 85 82 81 81 79 81 83 82 89 91 92 96 98 91 81 71														
630 84 83 86 85 81 81 81 80 81 84 84 91 91 91 93 95 88 78 68														
800 83 84 85 84 81 82 81 80 82 85 84 91 90 91 91 93 86 76 66														
1000 84 85 85 84 82 82 81 80 81 84 85 89 89 90 91 84 77 64														
1250 84 86 85 83 82 82 81 80 80 83 84 88 88 88 88 89 82 72 62														
1600 91 90 88 87 85 85 83 81 81 84 95 88 87 87 87 88 81 71 61														
2000 96 91 87 86 84 84 82 82 82 84 85 88 87 86 85 86 80 70 50														
2500 91 91 89 88 86 85 83 83 83 87 87 87 85 83 84 82 77 67 57														
3150 96 98 97 97 94 93 90 90 90 88 87 87 84 84 86 85 82 72 62														
4000 94 94 95 94 93 93 90 92 90 88 89 90 88 85 86 85 82 72 62														
5000 88 89 89 88 87 87 84 86 83 84 84 87 84 82 82 80 76 66 56														
6300 87 86 87 86 85 85 82 84 81 81 81 84 82 79 81 79 74 64 54														
8000 83 84 83 82 81 81 79 83 80 80 80 82 80 78 78 77 73 63 53														
10000 79 80 80 79 78 77 74 74 75 76 77 76 75 75 75 74 69 59 49														
OVERALL 103 103 102 102 100 99 98 98 98 99 100 104 107 111 115 119 115 105 95														

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( DISTANCE	( (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
( 200	( 119.2	120.1	119.6	119.1	116.9	116.2	114.1	115.4	113.8	113.9	114.5	117.3	116.9	118.4	121.4	124.1	120.1	110.0	99.9	
( 250	( 116.9	117.8	117.3	116.8	114.6	113.9	111.8	113.0	111.5	111.6	112.2	115.0	114.7	116.3	119.3	122.0	118.0	108.0	97.8	
( 315	( 114.6	115.5	114.9	114.4	112.3	111.6	109.5	110.6	109.1	109.2	109.8	112.7	112.4	114.1	117.1	119.9	115.9	105.0	95.6	
( 400	( 112.1	113.0	112.5	112.0	109.8	109.1	107.0	108.1	106.6	106.7	107.4	110.2	110.0	111.9	114.9	117.7	113.7	103.6	93.4	
( 500	( 109.6	110.5	109.9	109.4	107.3	106.5	104.5	105.4	103.9	104.1	104.8	107.7	107.4	109.5	112.5	115.4	111.3	101.2	91.0	
( 630	( 106.9	107.8	107.2	106.7	104.5	103.8	101.8	102.5	101.1	101.3	102.0	104.9	104.8	107.0	110.0	112.9	108.8	98.7	88.4	
( 800	( 104.0	104.9	104.3	103.8	101.6	100.9	98.9	99.5	98.1	98.3	99.1	102.0	102.1	104.3	107.4	110.3	106.2	96.0	85.7	
( 1000	( 100.9	101.8	101.2	100.7	98.5	97.8	95.8	96.1	94.8	95.3	95.9	99.3	99.2	101.5	104.6	107.5	103.4	93.1	82.7	
( 1250	( 97.6	98.4	97.9	97.4	95.1	94.4	92.5	92.6	91.3	91.9	92.6	95.7	96.0	98.4	101.5	104.5	100.3	90.0	79.4	
( 1600	( 93.9	94.8	94.2	93.7	91.5	90.8	88.8	88.9	87.7	88.3	89.0	92.2	92.8	95.0	98.2	101.2	96.9	86.6	75.0	
( 2000	( 90.4	90.8	90.2	89.7	87.4	86.7	84.8	84.8	83.7	84.4	85.1	88.5	89.5	91.5	94.5	97.6	93.2	82.7	71.8	
( 2500	( 86.5	86.3	85.7	85.2	82.9	82.2	80.4	80.3	79.2	80.0	80.8	84.7	85.5	87.5	90.4	93.4	89.0	78.3	67.3	
( 3150	( 82.1	81.2	80.7	80.1	77.8	77.2	75.4	75.1	74.2	75.6	76.4	80.5	81.3	83.1	85.8	88.9	84.2	73.3	62.1	
( 4000	( 77.3	75.5	75.0	74.4	72.0	71.4	69.6	69.3	68.6	70.7	71.5	76.0	76.0	78.2	81.0	83.9	78.5	67.6	56.3	
( 5000	( 71.9	69.6	68.6	68.0	65.6	65.5	64.1	63.0	63.1	65.7	66.4	71.2	71.9	73.3	76.1	78.7	73.2	62.0	50.1	
( 6300	( 65.6	63.9	62.8	61.9	59.6	59.7	58.4	56.9	57.0	60.4	60.8	66.1	66.7	68.2	71.1	73.6	67.7	56.4	43.8	
( 8000	( 59.5	56.2	57.4	56.4	53.7	53.9	53.0	51.5	52.7	55.7	56.1	61.6	62.6	64.3	67.4	70.0	64.3	52.5	39.3	
( 10000	( 52.2	51.7	52.2	51.3	47.9	47.7	47.5	45.6	46.8	50.4	50.8	56.9	58.0	60.1	63.4	66.2	60.6	48.0	34.0	
( 12500	( 44.4	45.3	46.1	45.2	41.4	41.4	41.5	39.1	40.8	44.4	44.8	51.6	53.2	55.6	59.1	62.1	56.0	43.4	27.8	
( 16000	( 37.3	38.3	39.1	38.8	34.4	34.4	34.4	31.3	33.9	37.4	37.9	45.6	47.7	50.5	54.3	57.5	52.8	38.4	19.8	
( 20000	( 28.9	30.0	31.9	31.4	25.7	25.6	26.4	21.0	24.0	29.8	30.1	38.5	41.4	44.4	48.8	53.5	48.2	33.1	7.5	
( 25000	( 17.2	19.2	21.3	20.9	12.5	13.5	13.6	10.7	9.0	16.5	16.4	30.5	34.3	37.5	42.7	48.7	42.6	26.1		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	METEOROLOGY:																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-510-001																				
RUN 03																				
AIRCRAFT CODE 510																				
OPERATION CODE 01018																				
PROFILE VERSION A																				
29 APR 76																				
PAGE E3																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	121.2	121.9	121.3	121.0	118.6	117.5	115.3	117.0	115.5	115.0	115.6	117.3	116.9	118.4	121.9	125.1	120.1	110.0	99.9	
250	118.9	119.6	119.0	118.7	116.3	115.2	113.0	114.7	113.1	112.7	113.3	115.0	114.7	116.3	119.8	123.0	118.0	108.0	97.8	
315	116.5	117.3	116.7	116.3	114.0	112.8	110.7	112.3	110.7	110.3	110.9	112.7	112.4	114.1	117.6	120.9	115.9	105.8	95.6	
400	114.1	114.8	114.2	113.9	111.5	110.4	108.3	109.7	108.2	107.8	108.5	110.2	110.0	111.9	115.4	118.7	113.7	103.6	93.4	
500	111.5	112.2	111.7	111.3	108.9	107.8	105.7	107.0	105.6	105.2	105.9	107.7	107.4	109.5	113.0	116.4	111.3	101.2	91.0	
630	108.8	109.5	108.9	108.6	106.2	105.1	103.0	104.2	102.8	102.4	103.1	104.9	104.8	107.0	110.5	113.9	108.8	98.7	88.4	
800	105.9	106.7	106.1	105.8	103.3	102.2	100.1	101.1	99.7	99.4	100.2	102.0	102.1	104.3	107.9	111.3	106.2	96.0	85.7	
1000	102.8	103.6	103.0	102.7	100.2	99.1	97.0	97.8	96.5	96.3	97.0	99.0	99.2	101.5	105.1	108.5	103.4	93.1	82.7	
1250	99.5	100.2	99.6	99.3	96.8	95.7	93.7	94.3	93.0	93.0	93.7	95.7	96.0	98.4	102.0	105.5	100.3	90.0	79.4	
1600	95.9	96.5	96.0	95.6	93.1	92.1	90.0	90.6	89.3	89.4	90.1	92.2	92.8	95.0	98.7	102.2	96.9	86.6	75.8	
2000	92.3	92.5	92.0	91.6	89.1	88.0	86.0	86.5	85.3	85.5	86.2	88.6	89.5	91.5	95.0	98.6	93.2	82.7	71.8	
2500	88.4	88.0	87.5	87.1	84.6	83.5	81.6	81.9	80.9	81.1	82.8	84.7	85.5	87.5	90.9	94.4	89.0	78.3	67.3	
3150	84.0	83.0	82.4	82.1	79.5	78.5	76.6	76.8	75.9	76.7	77.5	80.5	81.3	83.1	86.3	89.9	84.2	73.3	62.1	
4000	78.8	76.9	76.4	75.9	73.3	72.4	70.6	70.7	69.9	71.5	72.4	76.0	76.8	78.2	81.4	84.7	78.5	67.6	56.3	
5000	73.0	71.7	69.7	69.1	66.6	66.3	64.9	64.0	64.1	66.3	67.1	71.2	71.9	73.3	76.4	79.3	73.2	62.0	50.1	
6300	66.6	64.6	63.5	62.7	60.3	60.2	58.9	57.6	58.3	60.8	61.3	66.1	66.7	68.2	71.3	74.0	67.7	56.4	43.8	
8000	59.9	58.5	57.8	56.8	54.1	54.2	53.3	51.8	53.0	55.9	56.3	61.6	62.6	64.3	67.5	70.2	64.3	52.5	39.3	
10000	52.2	51.7	52.2	51.3	47.9	47.7	47.5	45.6	46.8	50.4	50.8	56.9	58.0	60.1	63.4	66.2	60.6	48.0	34.0	
12500	44.4	45.3	46.1	45.2	41.4	41.4	41.5	39.1	40.8	44.4	44.8	51.6	53.2	55.6	59.1	62.1	56.8	43.4	27.8	
16000	37.3	38.3	39.1	38.8	34.4	34.4	34.4	31.3	33.9	37.4	37.9	45.6	47.7	50.5	54.3	57.9	52.8	38.4	19.8	
20000	28.9	30.0	31.9	31.4	25.7	25.6	26.4	21.0	24.0	29.8	30.1	38.5	41.4	44.4	48.8	53.5	48.2	33.1	7.5	
25000	17.2	19.2	21.3	20.9	12.5	13.5	13.6	10.7	9.0	16.5	16.4	30.5	34.3	37.5	42.7	48.7	42.6	26.1		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-111A AIRCRAFT  
 ENG. TF30-P-3  
 GROUND RUNUP

OPERATION: 85% RPM, F-111A  
 SINGLE ENGINE, TF30-P-3  
 ESTIMATED NOISE LEVELS  
 RE F-111F LEVELS -1,3DB

METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -1.3 DB

IDENTIFICATION: OMEGA 0.2  
 TEST 74-510-001  
 RUN 03  
 AIRCRAFT CODE 510  
 OPERATION CODE 01018  
 PROFILE VERSION A  
 25 APR 76  
 PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.4	105.1	104.4	103.8	101.9	101.3	98.8	99.9	98.0	98.4	99.0	102.3	102.2	103.6	105.2	108.8	105.2	95.2	85.2
250	103.1	102.8	102.1	101.5	99.6	99.0	96.5	97.5	95.7	96.2	96.7	100.1	100.1	101.5	104.2	106.7	103.2	93.2	83.2
315	100.8	100.4	99.7	99.1	97.2	96.6	94.2	95.1	93.3	93.9	94.4	97.9	97.9	99.4	102.1	104.7	101.1	91.1	81.1
400	98.4	98.0	97.3	96.7	94.7	94.1	91.7	92.6	90.9	91.5	92.1	95.6	95.7	97.3	100.0	102.6	99.0	89.0	79.0
500	95.9	95.5	94.7	94.1	92.1	91.5	89.2	89.9	88.3	89.1	89.6	93.3	93.4	95.0	97.7	100.3	96.7	86.7	76.7
630	93.3	92.8	92.0	91.4	89.4	88.8	86.5	87.2	85.6	86.5	87.1	90.8	91.1	92.7	95.4	98.0	94.3	84.3	74.3
800	90.6	90.0	89.2	88.6	86.5	85.9	83.7	84.2	82.9	83.9	84.5	88.3	88.6	90.2	92.9	95.6	91.7	81.7	71.7
1000	87.7	87.0	86.2	85.6	83.5	82.9	80.8	81.1	79.9	81.2	81.8	85.8	86.1	87.7	90.4	93.0	89.0	79.0	69.0
1250	84.7	83.9	83.1	82.4	80.2	79.7	77.7	77.8	76.8	78.3	78.9	83.1	83.5	85.0	87.6	90.3	86.0	76.0	66.0
1600	81.5	80.6	79.7	79.0	76.8	76.3	74.5	74.3	73.6	75.4	75.9	80.3	80.7	82.2	84.6	87.4	82.9	72.9	62.9
2000	78.0	77.0	76.2	75.4	73.1	72.7	71.1	70.6	70.2	72.3	72.8	77.4	77.9	79.3	81.6	84.4	79.5	69.5	59.5
2500	74.3	73.2	72.4	71.6	69.2	69.0	67.5	66.7	66.7	69.1	69.5	74.4	74.8	76.0	78.2	80.9	75.7	65.7	55.7
3150	70.4	69.1	68.5	67.6	65.2	65.0	63.7	62.7	63.1	65.7	66.1	71.1	71.4	72.5	74.4	77.1	71.6	61.6	51.6
4000	66.0	64.8	64.3	63.3	60.9	60.8	59.7	58.5	59.2	62.0	62.3	67.5	67.7	68.6	70.4	72.9	67.0	57.0	47.0
5000	61.3	60.2	59.8	58.8	56.4	56.4	55.4	54.1	55.0	57.9	58.1	63.4	63.6	64.4	66.1	68.5	62.4	52.4	42.4
6300	56.1	55.3	55.1	54.1	51.7	51.7	50.8	49.4	50.5	53.5	53.7	59.1	59.2	60.0	61.6	63.9	57.8	47.8	37.8
8000	50.7	50.5	50.8	49.7	47.2	47.2	46.5	45.1	46.2	49.3	49.4	55.0	55.2	56.2	58.0	60.5	54.5	44.5	34.5
10000	45.2	45.5	46.1	45.1	42.5	42.5	42.0	40.4	41.7	44.8	44.8	50.6	51.0	52.1	54.2	56.9	51.2	41.2	31.2
12500	39.6	40.3	41.2	40.3	37.5	37.5	37.2	35.5	36.3	39.9	39.8	45.8	46.4	47.8	50.2	53.0	47.6	37.6	27.6
16000	34.0	34.7	35.9	35.1	32.1	32.2	32.1	30.2	31.0	34.6	34.6	40.5	41.5	43.2	46.0	49.0	44.0	34.0	24.0
20000	28.0	28.9	30.2	29.4	26.4	26.5	26.6	24.6	26.0	28.8	29.0	34.8	36.3	38.5	41.6	44.9	40.3	30.3	20.3
25000	21.7	22.8	24.1	23.4	20.4	20.5	20.9	18.9	20.2	22.7	23.3	28.8	30.9	33.6	37.1	40.6	36.4	26.4	16.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.3	106.8	106.1	105.7	103.6	102.6	100.0	101.5	99.7	99.5	100.1	102.3	102.2	103.0	100.7	109.8	105.2	95.2	95.2
250	105.0	104.6	103.8	103.4	101.3	100.3	97.7	99.2	97.4	97.3	97.8	100.1	100.1	101.5	104.7	107.7	103.2	93.2	93.2
315	102.7	102.2	101.5	101.1	98.9	97.9	95.4	96.8	95.0	95.0	95.5	97.5	97.9	99.4	102.6	105.7	101.1	91.1	91.1
400	100.3	99.8	99.0	98.6	96.4	95.4	92.9	94.2	92.5	92.6	93.2	95.0	95.7	97.3	100.5	103.6	99.0	89.0	89.0
500	97.8	97.2	96.5	96.0	93.8	92.8	90.4	91.6	90.0	90.1	90.7	93.3	93.4	95.0	98.2	101.3	96.7	80.7	80.7
630	95.2	94.6	93.8	93.4	91.1	90.1	87.7	88.8	87.3	87.6	88.2	90.8	91.1	92.7	95.9	99.0	94.3	74.3	74.3
800	92.5	91.8	91.0	90.5	88.2	87.2	85.0	85.9	84.5	85.0	85.6	88.3	88.6	90.2	93.4	96.6	91.7	71.7	71.7
1000	89.6	88.8	88.0	87.5	85.1	84.2	82.0	82.6	81.0	82.3	82.9	85.3	85.1	87.7	90.9	94.0	89.0	69.0	69.0
1250	86.6	85.7	84.8	84.3	81.9	81.0	78.9	79.5	78.2	79.4	79.4	83.1	83.5	85.0	88.1	91.3	86.0	66.0	66.0
1600	83.4	82.3	81.5	81.0	78.4	77.6	75.7	76.0	75.2	76.5	77.0	80.3	80.7	82.2	85.1	88.4	82.9	62.9	62.9
2000	80.0	79.8	77.9	77.4	74.8	74.0	72.3	72.3	71.9	73.4	73.9	77.4	77.9	79.3	82.1	85.4	79.5	59.5	59.5
2500	76.3	75.0	74.2	73.5	70.9	70.2	68.7	68.4	68.4	70.2	70.7	74.4	74.8	76.0	78.7	81.9	75.7	55.7	55.7
3150	72.3	70.9	70.2	69.5	66.9	66.3	64.9	64.4	64.4	66.3	67.2	71.1	71.4	72.5	74.9	78.1	71.6	51.6	51.6
4000	67.6	66.2	65.7	64.9	62.3	61.9	60.7	59.9	60.5	62.9	63.2	67.5	67.7	68.6	70.8	73.7	67.0	47.0	47.0
5000	62.4	61.3	60.9	60.3	57.4	57.2	56.1	55.1	56.0	58.6	58.8	63.4	63.6	64.4	66.4	69.1	62.4	42.4	42.4
6300	56.8	56.0	55.8	54.8	52.3	52.2	51.3	50.1	51.1	53.9	54.1	59.1	59.2	60.0	61.9	64.3	57.8	37.8	37.8
8000	51.1	50.9	51.1	50.1	47.5	47.5	46.8	45.4	46.0	49.5	49.6	55.2	55.2	56.2	58.1	60.7	54.5	34.5	34.5
10000	45.2	45.5	46.1	45.1	42.5	42.5	42.0	40.4	41.7	44.8	44.8	50.5	51.0	52.1	54.2	56.9	51.2	31.2	31.2
12500	39.6	40.3	41.2	40.3	37.5	37.5	37.2	35.5	36.9	39.9	39.8	45.8	46.4	47.8	50.2	53.0	47.6	27.6	27.6
16000	34.0	34.7	35.9	35.1	32.1	32.2	32.1	30.2	31.6	34.0	34.0	40.5	41.5	43.2	46.0	49.0	44.0	24.0	24.0
20000	28.0	28.9	30.2	29.4	26.5	26.5	26.6	24.6	26.0	28.8	28.8	34.8	36.3	38.5	41.0	44.9	40.3	20.3	20.3
25000	21.7	22.8	24.1	23.4	20.4	20.5	20.9	18.9	20.2	22.7	23.3	28.5	30.9	33.0	37.1	40.6	36.4	16.4	16.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 510 ) IDENTIFICATION: )  
 F-111A AIRCRAFT ( 65% RPM, F-111A ) TEMP = 59 F ) OPERATION CODE 01018 ) OMEGA 8.2 )  
 ENG. TF30-P-3 ( SINGLE ENGINE, TF30-P-3 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A ) TEST 74-510-001 )  
 GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 29 APR 76 ) RUN 03 )  
 ( RE F-111F LEVELS -1.308 ) DELTA N = -1.3 DB ) PAGE J3 )

ANGLE IN DEGREES	NOISE LEVEL IN PND8 OR 08A											
	30	40	50	60	70	80	90	100	110	120	130	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 51C																			
F-111A AIRCRAFT ( MIL PWR, 95% RPM, F-111A ) TEMP = 59 F ) OPERATION CODE 01004																			
ENG. TF30-P-3 ( SINGLE ENGINE, TF30-P-3 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 29 APR 76																			
( RE F-111F LEVELS -1.303 ) DELTA N = -1.3 DB ) PAGE C4																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	77	77	78	80	79	80	83	82	86	87	89	91	97	103	108	111	107	97	87
63	79	80	83	83	82	83	85	86	88	89	91	95	100	106	113	114	109	99	89
80	83	83	85	85	85	86	87	88	90	91	93	97	101	108	115	117	112	102	92
100	85	87	86	87	87	89	89	90	92	95	97	100	104	112	118	121	115	105	95
125	86	89	90	90	88	89	89	91	93	95	97	100	107	112	115	121	116	106	96
160	91	92	91	90	90	90	91	92	95	97	99	102	110	116	115	122	117	108	98
200	89	91	90	90	89	89	90	91	92	96	99	102	108	117	117	119	117	107	97
250	86	89	92	92	89	90	91	92	92	94	98	101	107	113	119	116	119	109	99
315	87	90	94	92	89	91	91	90	92	92	95	99	105	112	117	119	118	108	98
400	89	90	93	93	90	89	89	90	93	94	94	99	104	109	114	119	116	106	96
500	96	95	101	96	91	91	90	90	93	95	94	100	104	108	115	117	116	106	96
630	89	94	95	95	93	90	90	91	93	96	95	100	104	107	113	116	113	103	93
800	86	92	95	94	94	92	91	91	93	96	97	100	103	106	112	114	111	101	91
1000	85	90	93	93	93	92	93	93	93	96	96	100	103	106	111	113	108	98	88
1250	84	87	90	90	92	92	92	92	94	95	96	100	102	104	109	111	106	96	86
1600	90	88	89	90	91	92	92	93	94	96	97	100	102	104	109	111	105	95	85
2000	96	90	88	87	87	89	88	90	94	96	98	101	102	104	108	109	105	95	85
2500	86	83	84	85	85	87	88	89	93	94	96	99	100	102	106	107	103	93	83
3150	84	82	84	84	85	87	88	89	93	95	97	99	100	102	105	108	102	92	82
4000	89	83	84	84	85	86	87	88	93	94	96	98	100	101	104	107	101	91	81
5000	84	79	81	82	83	84	85	86	90	92	94	95	97	98	101	105	98	88	78
6300	82	77	78	79	80	81	82	82	88	90	93	94	95	97	101	104	98	88	78
8000	78	73	74	75	77	77	78	79	86	88	89	91	93	95	101	105	96	86	76
10000	75	70	71	72	73	74	76	76	83	84	87	88	91	94	100	103	94	84	74
OVERALL	102	103	105	104	102	103	103	103	106	108	110	113	117	123	127	130	127	117	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 PERCEIVED NOISE LEVEL (PNDB)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													IDENTIFICATION:							
NOISE SOURCE/SUBJECT:	DISTANCE (FEET)	ANGLE (DEGREES)													TEST 74-510-001							
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180		
F-111A AIRCRAFT	200	117.0	114.6	116.6	114.7	114.6	115.5	115.9	116.9	120.4	122.0	124.2	126.5	129.3	132.8	136.8	139.2	135.6	125.6	115.6	MIL PMR, 95% RPM, F-111A	59 F
ENG. TF30-P-3	250	114.8	112.4	114.4	112.5	112.4	113.2	113.7	114.7	119.1	119.8	121.9	124.4	127.1	130.6	134.6	137.0	133.5	123.5	113.4	SINGLE ENGINE, TF30-P-3	29 APR 76
GROUND RUNUP	315	112.5	110.1	112.3	110.3	110.2	111.0	111.4	112.4	115.8	117.4	119.6	122.0	124.8	128.5	132.4	134.9	131.3	121.3	111.3	ESTIMATED NOISE LEVELS	REL HUMID = 70 %
	400	110.2	107.9	110.0	108.1	107.9	108.7	109.0	110.0	113.4	115.0	117.2	119.7	122.4	126.2	130.2	132.6	129.1	119.1	109.1	RE F-111F LEVELS -1.308	DELTA N = -1.3 DB
	500	107.8	105.5	107.8	105.8	105.5	106.3	106.5	107.5	110.9	112.5	114.7	117.2	120.0	123.8	127.9	130.3	126.9	116.8	106.7		
	630	105.3	103.0	105.4	103.4	103.0	103.8	104.0	104.9	108.2	109.9	112.0	114.6	117.4	121.2	125.4	127.9	124.5	114.5	104.4		
	800	102.6	100.4	103.0	100.9	100.4	101.2	101.4	102.2	105.4	107.1	109.2	111.8	114.6	118.6	122.9	125.4	122.1	112.0	101.9		
	1000	99.9	97.7	100.4	98.3	97.7	98.5	98.6	99.4	102.4	104.2	106.2	108.9	111.7	115.7	120.3	122.9	119.5	109.5	99.7		
	1250	96.9	94.8	97.8	95.5	94.8	95.6	95.7	96.4	99.2	101.2	103.0	105.9	108.8	112.7	117.3	120.1	116.6	106.5	96.4		
	1600	93.7	91.7	95.0	92.6	91.7	92.4	92.5	93.3	96.0	97.9	99.6	102.7	105.5	109.3	114.4	117.2	113.8	103.7	93.4		
	2000	90.3	88.6	92.1	89.6	88.4	89.1	89.1	89.9	92.4	94.4	96.1	99.2	102.1	106.1	111.3	114.2	110.7	100.6	90.4		
	2500	86.5	85.3	88.9	86.2	84.7	85.4	85.4	86.2	88.6	90.5	92.2	95.4	98.3	102.2	107.9	110.4	107.3	97.1	86.8		
	3150	82.3	81.5	85.1	82.4	81.0	81.4	81.4	82.1	84.3	86.3	87.9	91.1	94.1	98.0	103.9	106.1	103.3	93.1	82.8		
	4000	77.6	77.2	80.9	78.0	76.9	76.9	76.9	77.6	79.6	81.6	83.1	86.4	89.7	93.4	99.4	101.5	98.9	88.7	78.4		
	5000	72.5	72.5	76.3	73.3	72.4	72.1	72.0	72.7	74.6	76.7	78.0	81.3	84.8	88.6	94.7	96.7	94.2	83.9	73.6		
	6300	67.5	67.5	71.4	68.4	67.6	67.0	66.8	67.3	69.3	71.5	72.6	76.2	79.8	83.6	89.7	91.8	89.3	79.0	68.6		
	8000	63.3	63.6	67.6	64.4	63.1	62.4	62.0	62.5	64.6	66.9	68.0	71.7	75.6	79.7	85.9	88.0	85.6	75.3	64.8		
	10000	58.9	59.2	63.4	60.1	58.3	57.5	57.0	57.5	59.8	62.1	63.1	67.1	71.2	75.5	81.9	83.9	81.7	71.3	60.6		
	12500	53.9	54.4	58.8	55.2	52.8	51.8	51.4	52.2	54.7	56.9	57.6	62.1	66.4	71.1	77.5	79.6	77.4	66.9	56.1		
	16000	48.5	48.9	53.7	50.0	48.8	45.9	45.3	46.2	49.1	51.3	51.6	56.6	61.4	66.4	72.9	75.3	72.8	62.2	51.0		
	20000	42.1	42.7	48.0	43.7	43.4	38.9	38.3	39.2	42.3	44.8	44.9	50.7	55.8	61.1	67.7	69.9	67.7	56.8	45.3		
	25000	34.1	34.5	40.9	35.7	30.9	29.9	29.3	30.3	34.1	37.2	37.6	43.6	49.5	55.3	62.0	64.3	62.0	50.8	38.2		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY:																			
	TEMP = 59 F																			
F-111A AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. TF30-P-3	DELTA N = -1.3 09																			
	ESTIMATED NOISE LEVELS																			
GROUND RUNUP	RE F-111F LEVELS -1.309																			
	ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	119.5	116.2	119.0	114.7	114.6	115.5	115.9	116.9	120.4	122.0	124.2	126.6	129.3	132.8	137.3	139.2	135.6	125.6	115.6	
250	117.3	114.0	116.9	112.5	112.4	113.2	113.7	114.7	118.1	119.8	121.9	124.4	127.1	130.6	135.2	137.0	133.5	123.5	113.4	
315	115.1	111.8	114.7	110.3	110.2	111.0	111.4	112.4	115.8	117.4	119.6	122.0	124.8	128.5	133.0	134.9	131.3	121.3	111.3	
400	112.7	109.5	112.5	108.1	107.9	108.7	109.0	110.0	113.4	115.0	117.2	119.7	122.4	126.2	130.8	132.6	129.1	119.1	109.1	
500	110.3	107.1	110.2	105.8	105.5	106.3	106.5	107.5	110.9	112.5	114.7	117.2	120.0	123.8	128.5	130.3	126.9	116.8	106.7	
630	107.8	104.6	107.9	103.4	103.0	103.8	104.0	104.9	108.2	109.9	112.0	114.6	117.4	121.2	125.9	127.9	124.5	114.5	104.4	
800	105.2	102.0	105.4	100.9	100.4	101.2	101.4	102.2	105.4	107.1	109.2	111.8	114.6	118.6	123.5	125.4	122.1	112.0	101.9	
1000	102.4	99.3	102.9	98.3	97.7	98.5	98.6	99.4	102.4	104.2	106.2	108.9	111.7	115.7	120.8	122.9	119.5	109.5	99.3	
1250	99.4	96.4	100.2	95.5	94.8	95.6	95.7	96.4	99.2	101.2	103.0	105.9	108.8	112.7	117.9	120.1	116.6	106.5	96.4	
1600	96.2	93.3	97.4	92.6	91.7	92.4	92.5	93.3	96.0	97.9	99.6	102.7	105.5	109.3	115.0	117.2	113.8	103.7	93.4	
2000	93.8	90.3	94.5	89.6	88.4	89.1	89.1	89.9	92.4	94.4	96.1	99.2	102.1	106.1	111.9	114.2	110.7	100.6	90.4	
2500	89.0	87.3	91.3	86.2	84.7	85.4	85.4	86.2	88.6	90.5	92.2	95.4	98.3	102.2	108.4	110.4	107.3	97.1	86.8	
3150	84.9	83.1	87.5	82.4	81.0	81.4	81.4	82.1	84.3	86.3	87.9	91.1	94.1	98.0	104.5	106.1	103.3	93.1	82.8	
4000	79.7	78.5	82.8	78.0	76.9	76.9	76.9	77.6	79.6	81.6	83.1	86.4	89.7	93.4	99.9	101.5	98.9	88.7	78.4	
5000	74.1	73.5	77.7	73.3	72.4	72.1	72.0	72.7	74.6	76.7	78.0	81.3	84.8	88.6	95.0	96.7	94.2	83.9	73.6	
6300	68.5	68.2	72.4	68.4	67.6	67.3	66.8	67.3	69.3	71.5	72.6	76.2	79.8	83.6	90.0	91.8	89.3	79.0	68.6	
8000	63.8	63.9	68.1	64.4	63.1	62.4	62.0	62.5	64.6	66.9	68.0	71.7	75.6	79.7	86.0	88.0	85.6	75.3	64.8	
10000	58.9	59.2	63.4	60.1	58.3	57.5	57.0	57.5	59.8	62.1	63.1	67.1	71.2	75.5	81.9	83.9	81.7	71.3	60.6	
12500	53.9	54.4	58.8	55.2	52.8	51.8	51.4	52.2	54.7	56.9	57.6	62.1	66.4	71.1	77.5	79.6	77.4	66.9	56.1	
16000	48.5	48.9	53.7	50.0	46.8	45.9	45.3	46.2	49.1	51.3	51.6	56.6	61.4	66.4	72.9	75.0	72.8	62.2	51.0	
20000	42.1	42.7	48.0	43.7	39.4	38.9	38.3	39.2	42.3	44.8	44.9	50.7	55.8	61.1	67.7	69.9	67.7	56.8	45.3	
25000	34.1	34.5	40.9	35.7	30.9	29.3	29.3	30.3	34.1	37.2	37.6	43.5	49.5	55.3	62.0	64.3	62.0	50.8	38.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D3A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	103.2	102.0	104.5	103.3	102.8	102.9	102.9	103.6	106.3	108.2	109.8	112.6	115.2	118.5	123.5	125.6	122.6	112.6	102.6
250	101.0	99.9	102.5	101.2	100.6	100.7	101.4	104.1	106.0	107.6	109.4	113.1	116.4	121.4	123.5	120.5	110.5	100.5	
315	98.8	97.8	100.4	99.0	98.5	98.6	98.5	99.2	101.9	103.7	105.3	109.1	114.9	119.2	121.4	118.4	108.4	98.4	
400	96.6	95.6	98.2	96.9	96.3	96.4	96.3	97.0	99.6	101.5	103.0	105.9	108.7	112.1	117.1	119.2	116.3	106.3	96.3
500	94.3	93.4	96.1	94.7	94.1	94.1	94.0	94.7	97.2	99.1	100.6	103.6	106.4	109.8	114.9	117.0	114.1	104.1	94.1
630	91.9	91.2	93.9	92.5	91.8	91.8	91.7	92.4	94.8	95.7	96.1	101.2	104.0	107.5	112.6	114.8	111.9	101.9	91.9
800	89.5	88.9	91.7	90.2	89.5	89.4	89.3	89.9	92.3	94.2	95.6	98.7	101.6	105.1	110.3	112.4	109.6	99.6	89.6
1000	86.9	86.6	89.4	87.8	87.1	87.0	86.8	87.5	89.7	91.7	93.0	96.1	99.1	102.6	107.9	116.1	107.3	97.3	87.3
1250	84.3	84.1	87.0	85.4	84.6	84.4	84.2	84.9	87.0	89.0	90.2	93.5	96.5	99.9	105.3	107.6	104.8	94.8	84.8
1600	81.6	81.6	84.6	82.9	82.1	81.8	81.6	82.2	84.2	86.2	87.4	90.7	93.8	97.2	102.7	105.0	102.2	92.2	82.2
2000	78.8	79.0	82.1	80.3	79.4	79.0	78.7	79.3	81.3	83.4	84.4	87.9	90.9	94.3	100.0	102.3	99.5	89.5	79.5
2500	75.7	76.2	79.4	77.5	76.5	76.1	75.7	76.3	78.2	80.3	81.2	84.8	87.9	91.1	97.0	99.3	96.5	86.5	76.5
3150	72.2	73.0	76.2	74.4	73.4	72.8	72.5	73.0	74.9	77.0	77.8	81.5	84.6	87.7	93.7	95.9	93.1	83.1	73.1
4000	68.3	69.5	72.6	70.9	70.0	69.3	69.0	69.5	71.2	73.4	74.1	77.8	80.9	83.9	90.0	92.2	89.3	79.3	69.3
5000	64.0	65.4	68.6	66.9	66.1	65.4	65.0	65.5	67.1	69.4	70.0	73.7	76.9	79.8	85.9	88.1	85.1	75.1	65.1
6300	59.3	61.1	64.3	62.6	61.8	61.0	60.7	61.1	62.7	65.0	65.5	69.3	72.5	75.4	81.6	83.7	80.7	70.7	60.7
8000	55.3	57.2	60.6	58.7	57.7	56.8	56.3	56.8	58.4	60.7	61.2	65.1	68.4	71.4	77.7	79.9	77.1	67.1	57.1
10000	51.2	53.1	56.6	54.5	53.2	52.1	51.6	52.1	53.8	56.1	56.5	60.5	64.0	67.2	73.6	75.7	73.1	63.1	53.1
12500	46.9	48.5	52.3	49.8	48.2	47.0	46.5	47.0	48.8	51.1	51.4	55.6	59.2	62.7	69.1	71.3	68.9	58.9	48.9
16000	42.2	43.5	47.4	44.6	42.6	41.5	40.9	41.4	43.4	45.7	45.8	50.2	54.0	57.9	64.2	66.4	64.2	54.2	44.2
20000	36.9	37.9	42.0	38.9	36.5	35.4	34.8	35.4	37.3	39.7	39.9	44.4	48.4	52.8	58.9	61.2	59.1	49.1	39.1
25000	31.1	31.7	36.0	32.6	29.8	28.9	28.3	29.0	31.1	33.3	33.5	38.1	42.5	47.4	53.1	55.5	53.5	43.5	33.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	OPERATION:																			
	METEOROLOGY:																			
ENGINE:	TEMP																			
	BAR PRESS = 29.92 IN HG																			
GROUND RUNUP	REL HUMID = 70 %																			
	DELTA N = -1.3 DB																			
DISTANCE	ANGLE (DEGREES)																			
	(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.7	103.6	107.0	103.3	102.8	102.9	102.9	102.9	103.6	106.3	108.2	109.8	112.6	115.2	118.5	124.0	125.6	122.6	112.6	102.6
250	103.5	101.5	104.9	101.2	100.6	100.7	100.7	101.4	104.1	106.0	107.6	110.4	113.1	116.4	121.9	123.5	120.5	110.5	100.5	
315	101.3	99.4	102.8	99.0	98.5	98.6	98.5	99.2	101.9	103.7	105.3	108.1	110.9	114.2	119.8	121.4	118.4	108.4	98.4	
400	99.1	97.3	100.7	96.9	96.3	96.4	96.3	97.0	99.6	101.5	103.0	105.9	108.7	112.1	117.7	119.2	116.3	106.3	96.3	
500	96.8	95.1	98.5	94.7	94.1	94.1	94.0	94.7	97.2	99.1	100.6	103.6	106.4	109.8	115.5	117.0	114.1	104.1	94.1	
630	94.4	92.8	96.3	92.5	91.8	91.8	91.7	92.4	94.8	96.7	98.1	101.2	104.0	107.5	113.2	114.8	111.9	101.9	91.9	
800	92.0	90.5	94.1	90.2	89.5	89.4	89.3	89.9	92.3	94.2	95.6	98.7	101.6	105.1	110.9	112.4	109.6	99.6	89.6	
1000	89.5	88.2	91.8	87.8	87.1	87.0	86.8	87.5	89.7	91.7	93.0	96.1	99.1	102.6	108.5	110.1	107.3	97.3	87.3	
1250	86.9	85.7	89.5	85.4	84.6	84.4	84.2	84.9	87.0	89.0	90.2	93.5	96.5	99.9	105.9	107.6	104.8	94.8	84.8	
1600	84.2	83.2	87.0	82.9	82.1	81.8	81.6	82.2	84.2	86.2	87.4	90.7	93.8	97.2	103.3	105.0	102.2	92.2	82.2	
2000	81.3	80.6	84.5	80.3	79.4	79.0	78.7	79.3	81.3	83.4	84.4	87.9	90.9	94.3	100.6	102.3	99.5	89.5	79.5	
2500	78.3	77.8	81.8	77.5	76.2	76.1	75.7	76.3	78.2	80.3	81.2	84.8	87.9	91.1	97.6	99.3	96.5	86.5	76.5	
3150	74.8	74.6	78.6	74.4	73.4	73.4	72.5	73.0	74.9	77.0	77.8	81.5	84.6	87.7	94.3	95.9	93.1	83.1	73.1	
4000	70.4	70.8	74.6	70.9	70.0	69.3	69.0	69.5	71.2	73.4	74.1	77.8	80.9	83.9	90.5	92.2	89.3	79.3	69.3	
5000	65.5	66.4	70.1	66.9	66.1	65.4	65.0	65.5	67.1	69.4	70.0	73.7	76.9	79.8	86.3	88.1	85.1	75.1	65.1	
6300	60.3	61.7	65.3	62.6	61.8	61.0	60.7	61.1	62.7	65.0	65.5	69.3	72.5	75.4	81.8	83.7	80.7	70.7	60.7	
8000	55.8	57.6	61.1	58.7	57.7	56.8	56.3	56.8	58.4	60.7	61.2	65.1	68.4	71.4	77.8	79.9	77.1	67.1	57.1	
10000	51.2	53.1	56.6	54.5	53.2	52.1	51.6	52.1	53.8	56.1	56.5	60.5	64.0	67.2	73.6	75.7	73.1	63.1	53.1	
12500	46.9	48.5	52.3	49.8	48.2	47.0	46.5	47.0	48.8	51.1	51.4	55.6	59.2	62.7	69.1	71.3	68.9	58.9	48.9	
16000	42.2	43.5	47.4	44.6	42.6	41.5	40.9	41.4	43.4	45.7	45.8	50.2	54.0	57.9	64.2	66.4	64.2	54.2	44.2	
20000	36.9	37.9	42.0	38.9	36.5	35.4	34.8	35.4	37.5	39.7	39.9	44.4	48.4	52.8	58.9	61.2	59.1	49.1	39.1	
25000	31.1	31.7	36.0	32.6	29.8	28.9	28.3	29.0	31.1	33.3	33.5	38.1	42.5	47.4	53.1	55.5	53.5	43.5	33.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: F-111A AIRCRAFT  
 ENG. TF30-P-3  
 GROUND RUNUP

OPERATION: MIL PMR, 95% RPM, F-111A  
 SINGLE ENGINE, TF30-P-3  
 ESTIMATED NOISE LEVELS  
 RE F-111F LEVELS -1.3DB

METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -1.3 DB

IDENTIFICATION: OMEGA 8.2  
 TEST 74-510-001  
 RUN 04  
 AIRCRAFT CODE 510  
 OPERATION CODE 01004  
 PROFILE VERSION A  
 29 APR 76  
 PAGE J4

ANGLE	NOISE LEVEL IN PNDB OR DBA											
	40	50	60	70	80	90	100	110	120	130	140	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ( AIRCRAFT CODE 510 )																			
F-111A AIRCRAFT ( AFTERBURNER ZONE3, F-111A ) TEMP = 59 F ( OPERATION CODE 01002 )																			
ENG. TF30-P-3 ( SINGLE ENGINE, TF30-P-3 ) BAR PRESS = 29.92 IN HG ( PROFILE VERSION A )																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ( 29 APR 76 )																			
( RE F-111F LEVELS -1.3DB ) DELTA N = -1.3 DB ( PAGE C5 )																			
BAND CENTER ANGLE (DEGREES)																			
FREQ (HZ)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>190	
50	89	87	89	90	91	92	92	94	95	94	103	109	115	119	117	110	100	90	
63	90	92	93	92	93	95	95	96	99	100	106	112	120	123	117	112	102	92	
80	91	92	96	94	96	96	98	99	101	103	109	115	122	124	118	115	105	95	
100	93	95	98	97	96	97	98	99	101	103	105	112	116	124	122	118	108	98	
125	95	98	99	98	97	99	99	102	104	106	112	117	121	126	123	119	109	99	
160	98	100	99	98	97	99	100	102	105	107	115	121	121	125	123	120	110	100	
200	96	98	96	98	97	99	99	101	104	106	113	119	123	122	121	118	108	98	
250	91	94	98	98	97	98	99	100	104	105	110	117	122	120	117	116	106	96	
315	93	97	100	99	97	97	98	98	101	104	110	115	120	119	117	116	106	96	
400	92	94	98	99	96	97	98	99	101	104	109	113	118	117	115	113	103	93	
500	92	94	98	99	96	97	98	100	101	105	111	114	117	115	111	101	91	81	
630	91	95	98	99	97	97	98	100	103	106	112	113	117	114	113	108	98	88	
800	89	95	97	99	98	97	98	99	101	103	107	111	113	116	113	112	106	96	86
1000	88	93	96	97	99	100	101	102	104	108	112	113	116	114	112	104	94	84	84
1250	88	93	94	96	97	99	101	103	104	107	111	113	116	113	109	101	91	81	81
1600	92	94	95	97	98	101	103	104	106	109	110	112	114	112	107	99	89	79	79
2000	97	92	92	93	94	95	98	100	101	103	106	111	112	115	112	107	98	88	78
2500	87	89	90	92	93	94	98	100	101	103	106	109	110	113	111	103	96	86	76
3150	86	88	90	93	94	94	98	101	102	102	106	109	110	113	110	103	96	86	76
4000	90	87	88	92	93	92	97	100	100	102	105	109	111	113	110	103	95	85	75
5000	85	84	86	90	91	90	95	98	100	103	106	108	111	108	102	92	82	72	72
6300	83	81	83	86	88	88	92	95	95	98	100	106	108	110	107	101	90	80	70
8000	80	76	79	83	84	83	88	92	94	98	105	107	110	106	101	87	77	67	67
10000	76	73	76	80	80	81	85	90	90	93	96	104	108	111	106	101	86	76	66
OVERALL	106	108	109	110	109	111	113	114	116	119	124	128	132	133	130	127	117	107	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

PERCEIVED NOISE LEVEL (PNDB)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE											IDENTIFICATION:						
													) OMEGA 8.2						
													) TEST 74-510-001						
													) RUN 05						
NOISE SOURCE/SUBJECT:		METEOROLOGY:											) AIRCRAFT CODE 510						
F-111A AIRCRAFT		TEMP = 55 F											) OPERATION CODE 01002						
ENG. TF30-P-3		BAR PRESS = 29.92 IN HG											) PROFILE VERSION A						
GROUND RUNUP		REL HUMID = 70 %											) 29 APR 76						
		RE F-111F LEVELS -1.30B											) DELTA N = -1.3 DB						
		RE F-111F LEVELS -1.30B											) PAGE 05						
DISTANCE		ANGLE (DEGREES)																	
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	119.1	118.5	119.0	121.8	122.0	122.2	125.3	127.5	128.6	130.2	133.0	137.5	139.9	143.1	141.4	137.7	133.1	123.0	113.0
250	116.9	116.4	117.6	119.6	119.8	120.0	123.0	125.2	126.3	127.9	130.8	135.2	137.6	140.9	139.1	135.6	131.0	120.9	110.9
315	114.7	114.2	115.4	117.3	117.5	117.7	120.7	122.9	124.0	125.7	128.5	132.9	135.3	138.5	136.9	133.4	128.8	118.8	108.8
400	112.4	111.9	113.1	115.0	115.1	115.3	118.3	120.5	121.6	123.3	126.1	130.5	132.9	136.1	134.5	131.2	126.6	116.6	106.6
500	110.0	109.5	110.8	112.5	112.6	112.8	115.8	118.0	119.1	120.9	123.6	128.0	130.4	133.6	132.2	128.8	124.4	114.3	104.2
630	107.5	107.0	108.4	110.0	110.1	110.3	113.2	115.4	116.5	118.3	121.0	125.3	127.8	131.0	129.7	126.3	122.0	112.0	101.9
800	104.8	104.4	105.8	107.4	107.5	107.6	110.5	112.6	113.8	115.6	118.2	122.6	125.1	128.4	127.1	123.6	119.7	109.6	99.4
1000	101.7	101.3	103.1	104.7	104.8	104.9	107.6	109.6	110.8	112.7	115.5	119.7	122.3	125.6	124.3	120.8	117.1	107.1	96.8
1250	99.1	98.8	100.2	101.8	101.9	102.0	104.5	106.4	107.7	109.7	112.6	116.7	119.3	122.6	121.3	117.9	114.2	104.1	93.8
1600	95.6	95.6	97.2	98.7	98.8	98.9	101.3	103.1	104.5	106.5	109.4	113.5	116.1	119.4	118.1	115.0	111.0	100.9	90.6
2000	92.4	92.3	94.0	95.3	95.4	95.5	97.9	99.7	101.1	103.1	106.0	110.0	112.7	116.0	114.9	111.8	108.0	97.8	87.5
2500	88.6	88.8	90.4	91.7	91.7	91.7	94.1	95.9	97.4	99.3	102.3	106.2	108.8	112.2	111.1	108.3	104.2	94.0	83.6
3150	84.3	85.1	86.5	87.9	87.7	87.7	90.0	91.8	93.3	95.2	98.0	102.0	104.6	108.1	106.8	104.3	99.9	89.6	79.2
4000	79.6	80.7	82.2	83.6	83.2	83.2	85.5	87.3	88.8	90.7	93.8	97.3	99.9	103.6	102.2	99.7	95.3	84.9	74.5
5000	74.4	76.0	77.5	78.9	78.3	78.3	80.6	82.4	83.9	85.3	88.9	92.5	95.3	98.8	97.4	95.0	90.5	80.1	69.6
6300	68.6	71.0	72.5	73.9	73.3	72.9	75.2	77.0	78.6	80.5	83.7	87.5	90.3	93.8	92.3	90.0	85.5	75.1	64.5
8000	63.0	66.8	68.4	69.7	68.9	68.2	70.0	71.6	73.3	75.2	78.5	83.3	86.0	89.8	88.5	86.3	81.9	71.5	60.8
10000	58.4	62.3	63.9	65.2	64.1	63.4	65.0	66.3	68.4	70.2	73.7	78.8	81.7	85.6	84.4	82.4	78.1	67.6	56.6
12500	53.3	57.4	59.2	60.4	58.7	58.0	59.6	61.1	63.2	65.2	68.6	73.9	77.2	81.3	80.2	78.2	74.0	63.4	52.1
16000	47.8	51.7	54.0	55.2	53.2	52.5	54.0	55.4	57.5	59.6	63.1	68.7	72.4	76.6	75.6	73.6	69.6	58.7	47.1
20000	40.8	45.2	48.1	49.2	47.0	46.2	47.8	49.3	51.5	53.3	57.2	63.1	67.1	71.5	70.7	68.7	64.7	53.5	41.0
25000	33.5	37.2	41.0	42.1	39.3	38.8	40.3	41.9	44.4	46.5	50.6	56.9	61.3	65.9	65.9	63.2	59.2	47.5	33.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION:																		
	METEOROLOGY:																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	121.5	118.5	114.8	121.8	122.0	122.2	125.3	127.5	128.6	130.2	133.0	137.5	139.9	143.6	141.4	137.7	133.1	123.0	113.0
315	119.3	116.4	117.6	119.6	119.8	120.0	123.0	125.2	126.3	127.9	130.8	135.2	137.6	141.4	139.1	135.6	131.0	120.9	110.9
400	114.8	111.9	113.1	115.0	115.1	115.3	118.3	120.5	121.6	123.3	126.1	130.5	132.9	136.6	134.5	131.2	126.6	116.6	108.6
500	112.4	109.5	110.8	112.5	112.6	112.8	115.8	118.0	119.1	120.9	123.6	128.0	130.4	134.1	132.2	128.6	124.4	114.3	104.2
630	109.9	107.8	108.4	110.0	110.1	110.3	113.2	115.4	116.5	118.3	121.0	125.3	127.8	131.5	129.7	126.3	122.0	112.0	101.9
800	107.2	104.4	105.8	107.4	107.5	107.6	110.5	112.6	113.8	115.6	118.2	122.6	125.1	128.9	127.1	123.6	119.7	109.6	99.4
1000	104.5	101.7	103.1	104.7	104.8	104.9	107.6	109.6	110.8	112.7	115.5	119.7	122.3	126.1	124.3	120.8	117.1	107.1	96.8
1250	101.5	98.8	100.2	101.8	101.9	102.0	104.5	106.4	107.7	109.7	112.6	116.7	119.3	123.1	121.3	117.9	114.2	104.1	93.8
1600	98.3	95.6	97.2	98.7	98.8	98.9	101.3	103.1	104.5	106.5	109.4	113.5	116.1	119.9	118.1	115.0	111.0	100.9	90.6
2000	94.8	92.3	94.0	95.3	95.4	95.5	97.9	99.7	101.1	103.1	106.0	110.0	112.7	116.5	114.9	111.8	108.0	97.8	87.5
2500	91.0	88.8	90.4	91.7	91.7	91.7	94.1	95.9	97.4	99.3	102.3	106.2	108.8	112.7	111.1	108.3	104.2	94.0	83.6
3150	86.7	85.1	86.5	87.9	87.7	87.7	90.0	91.8	93.3	95.2	98.3	102.0	104.6	108.6	106.8	104.3	99.9	89.6	79.2
4000	81.5	80.7	82.2	83.6	83.2	83.2	85.5	87.3	88.8	90.7	93.8	97.3	99.9	104.0	102.2	99.7	95.3	84.9	74.5
5000	75.8	76.0	77.5	78.9	78.3	78.3	80.6	82.4	83.9	85.8	88.9	92.5	95.3	99.1	97.4	95.0	90.5	80.1	69.6
6300	69.5	71.0	72.5	73.9	73.5	72.9	75.2	77.0	78.6	80.5	83.7	87.5	90.3	94.0	92.3	90.0	85.5	75.1	64.5
8000	63.4	66.8	68.4	69.7	68.9	68.2	70.0	71.6	73.3	75.2	78.5	83.3	86.0	89.9	88.5	86.3	81.9	71.5	60.8
10000	58.4	62.3	63.9	65.2	64.1	63.4	65.0	66.3	68.4	70.2	73.7	78.8	81.7	85.6	84.4	82.4	78.1	67.6	55.6
12500	53.3	57.4	59.2	60.4	58.7	58.0	59.6	61.1	63.2	65.2	68.6	73.9	77.2	81.3	80.2	78.2	74.0	63.4	52.1
16000	47.8	51.7	54.0	55.2	53.2	52.5	54.0	55.6	57.5	59.6	63.1	68.7	72.4	76.6	75.6	73.6	69.6	58.7	47.1
20000	40.8	45.2	48.1	49.2	47.0	46.2	47.8	49.3	51.5	53.3	57.2	63.1	67.1	71.5	70.7	68.7	64.7	53.5	41.0
25000	33.5	37.2	41.0	42.1	39.3	38.8	40.3	41.9	44.4	46.5	50.6	56.9	61.3	65.9	65.9	63.2	59.2	47.5	33.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	104.3	105.6	107.2	108.9	108.9	108.7	111.4	113.5	114.8	116.5	119.6	123.5	125.6	126.6	126.6	123.5	119.3	109.3	99.3
250	102.2	103.5	105.1	106.7	106.8	106.5	109.2	111.3	112.6	114.3	117.4	121.3	123.4	126.4	124.4	121.4	117.3	107.3	97.3
315	100.0	101.3	103.0	104.6	104.6	104.3	107.0	109.0	110.3	112.1	115.2	119.0	121.2	124.2	122.3	119.3	115.2	105.2	95.2
400	97.7	99.1	100.8	102.4	102.4	102.1	104.7	106.7	108.1	109.8	112.9	116.7	118.9	122.0	120.0	117.1	113.1	103.1	93.1
500	95.4	96.9	98.6	100.2	100.1	99.8	102.4	104.4	105.7	107.5	110.6	114.4	116.6	119.7	117.8	114.9	110.9	100.9	90.9
630	93.0	94.6	96.4	97.9	97.8	97.5	100.0	102.0	103.3	105.1	108.2	112.0	114.2	117.3	115.4	112.6	108.6	98.6	88.6
800	90.6	92.3	94.1	95.6	95.4	95.1	97.5	99.4	100.9	102.6	105.7	109.5	111.8	114.9	113.0	110.3	106.3	96.3	86.3
1000	88.0	89.9	91.7	93.1	92.9	92.6	95.0	96.8	98.3	100.0	103.2	107.0	109.2	112.4	110.5	107.9	103.9	93.9	83.9
1250	85.3	87.4	89.2	90.6	90.4	90.0	92.3	94.1	95.6	97.3	100.6	104.4	106.6	109.7	107.8	105.3	101.3	91.3	81.3
1500	82.5	84.7	86.6	88.1	87.7	87.3	89.5	91.3	92.8	94.5	97.8	101.6	103.9	107.0	105.1	102.6	98.6	88.6	78.6
2000	79.6	82.0	83.9	85.4	85.0	84.4	86.6	88.3	89.9	91.6	94.9	98.8	101.0	104.2	102.2	99.9	95.7	85.7	75.7
2500	76.3	79.1	81.0	82.4	82.0	81.4	83.5	85.2	86.8	88.4	91.9	95.8	98.0	101.1	99.0	96.8	92.6	82.6	72.6
3150	72.8	75.9	77.7	79.3	78.8	78.1	80.1	81.8	83.5	85.1	88.6	92.5	94.6	97.8	95.6	93.5	88.9	78.9	68.9
4000	69.9	72.3	74.1	75.7	75.3	74.5	76.5	78.1	79.9	81.4	85.0	88.9	91.0	94.1	91.8	89.8	84.9	74.9	64.9
5000	64.6	68.2	70.1	71.7	71.3	70.4	72.4	74.0	75.8	77.3	80.9	84.9	87.0	90.0	87.7	85.7	80.6	70.6	60.6
6300	59.9	63.9	65.7	67.4	67.0	66.1	68.0	69.5	71.4	72.9	76.5	80.6	82.6	85.6	83.3	81.4	76.1	66.1	56.1
8000	55.6	59.8	61.8	63.4	62.8	61.8	63.6	65.0	66.9	68.5	72.1	76.4	78.5	81.5	79.3	77.5	72.6	62.6	52.6
10000	51.1	55.5	57.5	59.0	58.2	57.1	58.8	60.2	62.2	63.7	67.4	71.8	74.0	77.2	75.0	73.4	68.8	58.8	48.8
12500	46.4	50.7	52.8	54.3	53.1	52.0	53.6	54.9	57.0	58.5	62.2	66.9	69.2	72.5	70.4	68.9	64.7	54.7	44.7
15000	41.3	45.5	47.7	49.1	47.6	46.5	48.0	49.2	51.4	52.8	56.6	61.5	63.9	67.5	65.6	64.1	60.3	50.3	40.3
20000	36.0	39.8	42.1	43.4	41.6	40.6	41.9	43.2	45.3	46.8	50.5	55.6	58.3	62.1	60.6	59.0	55.6	45.6	35.6
25000	30.2	33.7	36.0	37.1	35.1	34.3	35.5	36.7	38.8	40.4	43.9	49.3	52.5	56.4	55.6	53.7	50.6	40.6	30.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
( DISTANCE ( FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
( 200	106.7	105.6	107.2	108.9	108.9	106.7	111.4	113.5	114.8	116.5	119.6	123.5	125.6	129.1	126.6	123.5	119.3	109.3	99.3
( 250	104.6	103.5	105.1	106.7	106.8	106.5	109.2	111.3	112.6	114.3	117.4	121.3	123.4	126.9	124.4	121.4	117.3	107.3	97.3
( 315	102.4	101.3	103.0	104.6	104.6	104.3	107.0	109.0	110.3	112.1	115.2	119.0	121.2	124.7	122.3	119.3	115.2	105.2	95.2
( 400	100.1	99.1	100.8	102.4	102.4	102.1	104.7	106.7	108.1	109.8	112.9	116.7	118.9	122.5	120.0	117.1	113.1	103.1	93.1
( 500	97.8	96.9	98.6	100.2	100.1	99.8	102.4	104.4	105.7	107.5	110.6	114.4	116.6	120.1	117.8	114.9	110.9	100.9	90.9
( 630	95.4	94.6	96.4	97.9	97.8	97.5	100.0	102.0	103.3	105.1	108.2	112.0	114.2	117.8	115.4	112.6	108.6	98.6	88.6
( 800	93.0	92.3	94.1	95.6	95.4	95.1	97.5	99.4	100.9	102.6	105.7	109.5	111.8	115.4	113.0	110.3	106.3	96.3	86.3
( 1000	90.4	89.9	91.7	93.1	92.9	92.6	95.0	96.8	98.3	100.0	103.2	107.0	109.2	112.9	110.5	107.9	103.9	93.9	83.9
( 1250	87.7	87.4	89.2	90.6	90.4	90.0	92.3	94.1	95.6	97.3	100.6	104.4	106.6	110.2	107.8	105.3	101.3	91.3	81.3
( 1600	84.9	84.7	86.6	88.1	87.7	87.3	89.5	91.3	92.8	94.5	97.8	101.6	103.9	107.5	105.1	102.6	98.6	88.6	78.6
( 2000	82.0	82.0	83.9	85.4	85.0	84.4	86.6	88.3	89.9	91.6	94.9	98.8	101.0	104.7	102.2	99.9	95.7	85.7	75.7
( 2500	78.7	79.1	81.0	82.4	82.0	81.4	83.5	85.2	86.8	88.4	91.9	95.8	98.0	101.6	99.0	96.8	92.5	82.5	72.5
( 3150	75.2	75.9	77.7	79.3	78.8	78.1	80.1	81.8	83.5	85.1	88.6	92.5	94.6	98.3	95.6	93.5	88.9	78.9	68.9
( 4000	70.9	72.3	74.1	75.7	75.3	74.5	76.5	78.1	79.9	81.4	85.0	88.9	91.0	94.5	91.0	89.8	84.3	74.9	64.9
( 5000	66.0	68.2	70.1	71.7	71.3	70.4	72.4	74.0	75.8	77.3	80.9	84.9	87.0	90.3	87.7	85.7	80.6	70.6	60.6
( 6300	60.9	63.9	65.7	67.4	67.0	66.1	68.0	69.5	71.4	72.9	76.5	80.5	82.6	85.8	83.3	81.4	76.1	66.1	56.1
( 8000	56.1	59.8	61.8	63.4	62.8	61.8	63.6	65.0	66.9	68.5	72.1	76.4	78.5	81.6	79.3	77.5	72.6	62.6	52.6
( 10000	51.1	55.5	57.5	59.0	58.2	57.1	58.8	60.2	62.2	63.7	67.4	71.8	74.0	77.2	75.0	73.4	68.8	58.8	48.8
( 12500	46.4	50.7	52.8	54.3	53.1	52.0	53.6	54.9	57.0	58.5	62.2	66.9	69.2	72.5	70.4	68.9	64.7	54.7	44.7
( 16000	41.3	45.5	47.7	49.1	47.6	46.5	48.0	49.2	51.4	52.8	56.6	61.5	63.9	67.5	65.6	64.1	60.3	50.3	40.3
( 20000	36.0	39.8	42.1	43.4	41.6	40.6	41.9	43.2	45.3	46.8	50.5	55.6	58.3	62.1	60.6	59.0	55.6	45.6	35.6
( 25000	30.2	33.7	36.0	37.1	35.1	34.3	35.5	36.7	38.8	40.4	43.9	49.3	52.5	56.4	55.5	53.7	50.6	40.6	30.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-510-001  
 RUN 05  
 AIRCRAFT CODE 510  
 OPERATION CODE 91002  
 PROFILE VERSION A  
 29 APR 76  
 PAGE J5  
 METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -1.7 DB  
 T=ALT  
 A=AL  
 P=PNLT

	50	60	70	80	90	100	110	120	130	140	150	
	NOISE LEVEL IN PNOB OR DBA											
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



	40	50	60	70	80	90	100	110	MEAN	SD
50	.	.	.	.	.	.	.	.	95.9	
63	.	.	.	.	.	.	X	.	94.1	
80	.	.	.	.	.	X	.	.	91.9	
100	.	.	.	.	.	.	.	X	103.6	
125	.	.	.	.	.	.	.	X	110.4	
160	.	.	.	.	.	.	.	.	112.4	
200	.	.	.	.	.	.	.	X	109.0	
250	.	.	.	.	.	.	.	X	106.7	
315	.	.	.	.	.	.	.	.	111.3	
400	.	.	.	.	.	.	.	X	107.0	
500	.	.	.	.	.	.	.	X	108.7	
630	.	.	.	.	.	.	.	X	107.6	
800	.	.	.	.	.	.	X	.	105.7	
1000	.	.	.	.	.	.	X	.	104.1	
1250	.	.	.	.	.	.	X	.	103.6	
1600	.	.	.	.	.	.	X	.	103.4	
2000	.	.	.	.	.	.	X	.	103.0	
2500	.	.	.	.	.	.	X	.	101.1	
3150	.	.	.	.	.	.	X	.	100.2	
4000	.	.	.	.	.	.	X	.	98.9	
5000	.	.	.	.	.	.	X	.	97.0	
6300	.	.	.	.	.	.	X	.	96.3	
8000	.	.	.	.	.	.	X	.	96.7	
10000	.	.	.	.	.	.	X	.	97.0	

F-111D AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 1  
 TEMP = 59 F  
 REL HUMID = 70 %  
 IDENT: 6.6-511-101-180276  
 PNLT = 129.0 PNDB  
 PNL = 123.2 PNDB  
 ALT = 116.0 CBA  
 AL = 115.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DR)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:	METEOROLOGY:	A/G CODE: 511																							
( ( OPERATION: )	( TEMP = 59 F )	( OPS CODE: 101																							
( ( AFTERBURNER POWER )	( RFL HUMID = 70 % )	( PROFILE VER: A																							
( ( 97 % RPM )	( DELTA N = 0.0 DB )	( 18 FEB 76																							
( ( AIRSPEED = 350 KNOTS )	( )	( PAGE H1																							
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
( 200	110	108	106	118	125	127	123	121	126	122	123	122	122	119	119	119	120	120	119	119	120	120	122	120	137
( 250	108	106	104	116	123	125	121	119	124	120	121	120	119	117	117	118	118	118	117	117	117	118	117	120	133
( 315	106	104	102	114	121	123	119	117	122	117	119	119	117	115	115	115	115	115	114	115	115	114	117	122	129
( 400	104	102	100	112	119	121	117	115	120	115	117	116	115	113	113	113	113	112	112	112	112	112	111	113	124
( 500	102	100	98	110	117	119	115	113	118	113	115	114	112	111	111	111	111	109	109	109	109	108	110	114	119
( 630	100	98	96	108	114	117	113	111	115	111	113	112	110	109	108	108	108	108	107	107	107	106	106	109	113
( 800	98	96	94	106	112	114	111	109	113	109	111	110	108	106	106	106	106	106	104	104	104	103	101	101	103
( 1000	96	94	92	104	110	112	109	107	111	107	109	108	106	104	104	103	103	103	101	100	99	97	96	97	97
( 1250	94	92	90	102	108	110	107	105	109	105	106	105	103	102	101	101	100	98	97	95	92	90	89	87	87
( 1600	92	90	88	100	106	108	105	102	107	103	104	103	101	99	96	98	97	94	92	90	87	83	80	74	74
( 2000	90	88	86	97	104	106	103	100	105	100	102	101	98	96	95	97	93	90	88	84	80	75	69	59	59
( 2500	88	86	84	95	102	104	100	98	102	98	99	98	96	93	92	91	90	86	82	77	73	66	56	40	40
( 3150	86	84	82	93	100	102	98	96	100	96	97	95	93	90	89	87	85	81	76	69	64	54	39	18	18
( 4000	84	82	80	91	98	100	96	93	98	93	94	92	90	87	85	83	80	75	69	60	53	39	19	19	19
( 5000	82	80	77	89	96	97	94	91	95	90	91	89	86	83	81	78	75	68	60	49	40	22	22	22	22
( 6300	79	78	75	87	93	95	91	88	92	87	88	86	82	79	76	72	68	60	50	35	24	0	0	0	0
( 8000	77	75	73	84	91	93	89	86	90	84	85	82	78	74	70	66	60	50	38	18	5	5	5	5	5
( 10000	75	73	71	82	88	90	86	83	87	81	81	78	73	68	64	58	51	38	22	4	4	4	4	4	4
( 12500	73	71	68	80	86	87	83	80	83	77	77	73	68	62	56	49	39	24	7	7	7	7	7	7	7
( 16000	71	69	66	77	83	84	80	76	79	73	72	67	61	54	47	37	25	9	9	9	9	9	9	9	9
( 20000	68	66	63	74	80	81	77	73	75	68	66	61	53	45	36	24	7	7	7	7	7	7	7	7	7
( 25000	66	64	61	72	77	78	73	68	70	62	60	53	44	34	23	7	7	7	7	7	7	7	7	7	7

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONF CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)	IDENTIFICATION:	
F-111D	136.7	137.5	150.5	151.2	132.3	133.3	136.8	OMEGA	6.6
	133.6	134.4	147.5	148.3	130.3	131.3	134.9		
	130.4	131.2	144.4	145.2	128.1	129.1	132.8		
	127.2	127.9	141.1	141.9	125.8	126.8	130.5		
	123.9	124.7	137.6	138.4	123.6	124.6	128.0		
	120.9	121.6	134.3	135.1	121.5	122.5	125.7		
	118.0	118.7	131.4	132.1	119.6	120.6	123.7		
	115.3	116.0	128.2	129.0	117.9	118.9	121.6		
	112.6	113.4	125.2	125.9	116.3	117.3	119.6		
	110.0	110.7	122.3	123.0	114.6	115.6	117.7		
	107.3	108.0	119.3	120.1	112.9	113.9	115.7		
	104.5	105.3	116.3	117.0	111.2	112.2	113.7		
	101.7	102.4	113.2	114.0	109.3	110.3	111.6		
	98.8	99.4	110.1	110.7	107.4	108.2	109.3		
	95.8	96.2	107.0	107.4	105.4	106.0	106.9		
	92.6	92.9	103.7	104.0	103.2	103.6	104.4		
	89.3	89.5	100.3	100.4	101.0	101.2	101.8		
	85.9	85.9	96.7	96.7	98.5	98.5	99.1		
	82.3	82.3	93.1	93.1	95.9	95.9	96.5		
	78.5	78.5	89.5	89.5	93.1	93.1	93.8		
	74.4	74.4	85.6	85.6	90.1	90.1	91.0		
	70.2	70.2	81.5	81.5	86.8	86.8	87.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	70	80	90	100	110	120	130	140	150
200	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(



200	(	F-111D AFTERBURNER POWER										ST	E
250	(	. 97 % RPM	.	.	.	.	.	.	.	.	.	ST	E
315	(	AIRSPEED = 350 KNOTS	.	.	.	.	.	.	.	.	.	ST	E
400	(	TEMP = 59 F REL HUMID = 70 %	.	.	.	.	.	.	.	.	.	ST	E
500	(	DELTA N = 0.0 DB	.	.	.	.	.	.	.	.	.	ST	E
	(	NO. OF RECORDS: 1	.	.	.	.	.	.	.	.	.	ST	E
	(	IDENT: 6.6-511-101-180276-A	.	.	.	.	.	.	.	.	.	ST	E
	(	.	.	.	.	.	.	.	.	.	.	ST	E
630	(	.	.	.	.	.	.	.	.	.	.	ST	E
800	(	.	.	.	.	.	.	.	.	.	.	ST	E
1000	(	.	.	.	.	.	.	.	.	.	.	ST	E
1250	(	.	.	.	.	.	.	.	.	.	.	ST	E
1600	(	.	.	.	.	.	.	.	.	.	.	ST	E
2000	(	.	.	.	.	.	.	.	.	.	.	ST	E
2500	(	.	.	.	.	.	.	.	.	.	.	ST	E
3150	(	.	.	.	.	.	.	.	.	.	.	ST	E
4000	(	.	.	.	.	.	.	.	.	.	.	ST	E
5000	(	.	.	.	.	.	.	.	.	.	.	ST	E
6300	(	.	.	.	.	.	.	.	.	.	.	ST	E
8000	(	.	.	.	.	.	.	.	.	.	.	ST	E
10000	(	.	.	.	.	.	.	.	.	.	.	ST	E
12500	(	.	.	.	.	.	.	.	.	.	.	ST	E
16000	(	.	.	.	.	.	.	.	.	.	.	ST	E
20000	(	.	.	.	.	.	.	.	.	.	.	ST	E
25000	(	.	.	.	.	.	.	.	.	.	.	ST	E

60 70 80 90 100 110 120 130 140  
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6 6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		TEMP = 59 F																							
( AFTERBURNER POWER		REL HUMID = 70 %																							
( 97 % RPM		DELTA N = 0.0 DB																							
( AIRSPEED = 350 KNOTS		PAGE L1																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	105	103	101	113	120	122	118	116	121	117	118	117	116	114	114	114	115	115	114	114	115	115	117	123	132
250	103	101	99	111	118	120	116	114	119	115	116	115	114	112	112	113	113	113	112	112	112	113	112	115	120
315	101	99	97	109	116	118	114	112	117	112	114	113	112	110	110	110	110	110	109	110	110	109	112	117	124
400	99	97	95	107	114	115	112	110	115	110	112	111	110	108	106	106	108	108	107	107	107	107	106	108	113
500	97	95	93	105	111	113	110	108	113	108	110	109	107	106	106	106	106	106	104	104	104	104	103	105	109
630	95	93	91	103	109	110	107	105	110	106	108	107	105	104	103	103	103	102	102	102	101	100	101	104	108
800	93	91	89	100	106	108	104	102	108	104	106	105	103	101	101	101	101	99	99	98	98	96	96	98	101
1000	91	89	87	97	103	105	101	99	106	102	104	103	101	99	99	98	98	96	95	93	92	90	91	92	92
1250	89	87	84	94	100	101	98	96	103	100	101	100	98	97	96	96	96	95	93	92	90	87	85	84	82
1600	87	84	80	91	97	98	95	93	100	98	99	98	96	94	93	93	93	92	89	87	85	82	78	75	69
2000	84	80	77	87	93	94	91	89	96	95	97	96	93	91	90	90	88	85	83	79	75	70	64	54	
2500	80	76	73	83	88	90	86	84	92	92	94	93	91	88	87	86	85	81	77	72	68	61	51	35	
3150	76	72	68	78	84	85	81	79	88	87	91	90	88	85	84	82	80	76	71	64	59	49	34	13	
4000	72	67	63	72	78	79	76	74	83	83	87	87	85	82	80	78	75	70	64	55	48	34	14		
5000	67	62	58	67	73	74	71	68	77	77	83	82	81	78	76	73	70	63	55	44	35	17			
6300	61	58	53	63	68	69	66	63	70	71	78	78	76	74	71	67	63	55	45	30	19				
8000	59	55	51	60	66	67	63	61	68	68	75	74	72	69	65	61	55	45	33	13	0				
10000	57	53	49	58	63	64	60	58	65	65	71	70	67	63	59	53	46	33	17						
12500	55	51	46	56	61	62	58	55	61	61	67	65	62	57	51	44	34	19							
16000	53	49	44	53	58	59	54	51	57	57	62	59	55	49	42	32	20	2							
20000	50	46	41	50	55	56	51	48	52	52	56	53	47	40	31	19	4								
25000	48	44	39	48	52	52	47	43	48	46	50	45	38	29	18	2									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) IDENTIFICATION: )									
( AFTERBURNER POWER ) TEMP = 59 F ) A/C CODE: 511 )									
( 97 % RPM ) REL HUMID = 70 % ) OPS CODE: 101 )									
( AIRSPEED = 350 KNOTS ) DELTA N = 0.0 DB ) PROFILE VER: A )									
( ) ) 18 FEB 76 )									
( ) ) PAGE M1 )									
SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNL** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)		
200	131.7	132.6	145.5	146.4	127.3	128.5	132.0		
250	128.6	129.5	142.6	143.5	125.3	126.4	130.1		
315	125.4	126.3	139.5	140.4	123.1	124.2	128.0		
400	122.2	123.1	136.1	137.0	120.8	121.9	125.7		
500	118.9	119.8	132.6	133.5	118.5	119.7	123.1		
630	115.8	116.7	129.2	130.1	116.4	117.6	120.8		
800	112.9	113.8	126.2	127.1	114.5	115.7	118.7		
1000	110.1	111.0	122.9	123.8	112.7	113.9	116.4		
1250	107.3	108.2	119.5	120.4	111.0	112.1	114.1		
1600	104.5	105.4	116.0	116.9	109.1	110.3	111.6		
2000	101.6	102.5	112.5	113.4	107.2	108.4	109.0		
2500	98.4	99.3	108.8	109.7	105.1	106.2	106.3		
3150	95.0	95.9	104.6	105.5	102.6	103.8	103.1		
4000	91.1	91.9	99.9	100.7	99.8	100.7	99.2		
5000	86.8	87.3	94.9	95.5	96.4	97.1	95.0		
6300	82.1	82.5	89.7	90.1	92.8	93.2	90.5		
8000	77.9	78.1	85.5	85.7	89.6	89.8	87.1		
10000	73.4	73.4	81.1	81.1	86.0	86.0	83.4		
12500	68.5	68.5	76.3	76.3	82.1	82.1	79.7		
16000	63.1	63.1	71.1	71.1	77.8	77.8	75.4		
20000	57.3	57.3	65.3	65.3	72.9	72.9	70.7		
25000	51.0	51.0	58.8	58.8	67.6	67.6	65.1		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 (-----A+-----*P-----)
    ( F-1110 AFTERBURNER POWER )
250 ( . 97 % RPM )
    ( AIRSPEED = 350 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 1 )
    ( IDENT: 6.6-511-101-180276-A )
500 ( . . . . .A+ . . . . .X. . . . . )
    ( . . . . .A+ . . . . .*P )
S 630 ( . . . . .A+ . . . . .*P )
L 800 ( . . . . .A+ . . . . .*P )
N 1000 ( . . . . .A+ . . . . .*P )
    ( . . . . .A+ . . . . .*P )
D 1250 ( . . . . .A+ . . . . .X )
I 1600 ( . . . . .A+ . . . . .*P )
T 2000 ( . . . . .X . . . . .*P. . . . . )
    ( . . . . .A+. . . . .*P )
C 2500 ( . . . . .A+ . . . . .X )
E 3150 ( . . . . .A+ . . . . .X )
I 4000 ( . . . . .A+ . . . . .*P )
F 5000 ( . . . . .X. . . . .X. . . . .X. . . . .X. )
E 6300 ( . . . . .X )
T 8000 ( . . . . .X )
10000 ( . . . . .X. . . . .X. . . . .X. . . . .X. )
12500 (X. . . . .X. . . . .X. . . . .X. . . . .X. )
    ( . . . . .X. . . . .X. . . . .X. . . . .X. )
16000 ( . . . . .X )
20000 ( . . . . .X )
25000 (-----)

NOISE LEVEL IN DB
70 80 90 100 110 120 130 140 150
GROUND TO GROUND
P = PNL
+ = ALT
A = AL

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FREQUENCY	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB										MEAN	SD	
	30	40	50	60	70	80	90	100					
50	.	.	.	.	.	.	.	.	.	.	.	76.7	.
63	.	.	.	.	.	.	.	.	.	.	.	76.4	.
80	.	.	.	.	.	.	.	.	.	.	.	76.3	.
100	.	.	.	.	.	.	.	.	.	.	.	85.7	.
125	.	.	.	.	.	.	.	.	.	.	.	94.1	.
160	.	.	.	.	.	.	.	.	.	.	.	96.8	.
200	.	.	.	.	.	.	.	.	.	.	.	93.2	.
250	.	.	.	.	.	.	.	.	.	.	.	94.8	.
315	.	.	.	.	.	.	.	.	.	.	.	96.5	.
400	.	.	.	.	.	.	.	.	.	.	.	95.8	.
500	.	.	.	.	.	.	.	.	.	.	.	94.1	.
630	.	.	.	.	.	.	.	.	.	.	.	95.1	.
800	.	.	.	.	.	.	.	.	.	.	.	94.2	.
1000	.	.	.	.	.	.	.	.	.	.	.	94.0	.
1250	.	.	.	.	.	.	.	.	.	.	.	93.3	.
1600	.	.	.	.	.	.	.	.	.	.	.	93.0	.
2000	.	.	.	.	.	.	.	.	.	.	.	92.9	.
2500	.	.	.	.	.	.	.	.	.	.	.	91.6	.
3150	.	.	.	.	.	.	.	.	.	.	.	89.3	.
4000	.	.	.	.	.	.	.	.	.	.	.	86.6	.
5000	.	.	.	.	.	.	.	.	.	.	.	82.2	.
6300	.	.	.	.	.	.	.	.	.	.	.	78.4	.
8000	.	.	.	.	.	.	.	.	.	.	.	74.5	.
10000	.	.	.	.	.	.	.	.	.	.	.	69.5	.

F-1110 TAKEOFF POWER 97 % RPM

AIRSPEED = 300 KNOTS  
 SLANT DISTANCE = 1000 FEET

TEMP = 59 F  
 REL HUMID = 70 %

PNLT = 116.5 PND3  
 PNL = 116.0 PND8  
 ALT = 104.1 OBA  
 AL = 103.5 OBA

NO. OF RECORDS = 1 IDENT: 6.6-511-103-180276

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		A/C CODE: 511																							
( TAKEOFF POWER		OPS CODE: 103																							
( 97 % RPM		REL HUMID = 70 %																							
( AIRSPEED = 300 KNOTS		PROFILE VER: A																							
( DELTA N = 0.0 DB		18 FEB 76																							
		PAGE H2																							
SLANT	DISTANCE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
(FEET)																									
200	91	90	90	100	108	111	107	109	111	110	109	110	109	109	109	109	109	110	109	108	108	104	104	105	108
250	89	88	98	106	109	105	107	109	108	107	108	107	108	107	107	107	108	107	106	106	105	192	101	102	105
315	87	86	86	104	107	103	105	107	106	105	105	105	105	105	105	105	105	105	104	103	99	98	99	101	
400	85	84	84	94	102	105	101	103	105	104	103	104	103	103	103	103	103	103	102	101	100	96	95	96	
500	83	82	82	92	100	103	99	101	103	102	101	102	101	101	100	100	100	101	98	97	93	92	91	91	
630	81	80	80	90	98	101	97	99	101	100	98	99	99	99	99	98	98	98	97	96	94	90	88	85	
800	79	78	78	88	96	99	95	97	99	98	96	97	96	96	96	96	96	96	95	93	90	86	83	81	
1000	77	76	76	86	94	97	93	95	97	96	94	95	94	94	94	93	93	93	92	89	87	82	78	75	
1250	75	74	74	84	92	95	91	93	94	94	92	93	92	92	92	91	90	90	88	86	82	78	73	67	
1600	73	72	72	82	90	93	89	91	92	91	90	90	89	89	88	87	87	87	85	82	78	72	66	58	
2000	71	70	70	80	88	91	87	88	90	89	87	88	87	86	85	84	83	81	77	72	66	58	47	33	
2500	69	68	68	77	86	88	85	86	88	87	85	86	84	83	82	81	80	77	72	65	59	48	35	15	
3150	67	66	65	75	84	86	82	84	85	84	82	83	81	80	79	77	75	72	66	59	49	40	37	19	
4000	64	64	64	73	81	84	80	82	83	82	80	80	78	77	75	73	71	66	59	49	40	23			
5000	62	62	62	71	79	82	78	79	80	79	77	77	75	73	71	68	65	59	50	38	27	6			
6300	60	60	60	69	77	79	75	77	78	76	74	74	71	69	66	63	58	51	40	24	12				
8000	58	58	57	67	75	77	73	74	75	73	70	70	67	64	61	56	51	42	28	8					
10000	56	55	55	64	72	74	70	71	72	70	67	66	62	59	54	48	42	30	13						
12500	54	53	53	62	70	72	67	68	69	66	62	61	57	53	47	39	31	16							
16000	52	51	50	59	67	69	64	65	65	62	58	56	50	45	38	29	17								
20000	49	48	48	57	64	66	61	61	61	57	52	49	43	36	27	15	1								
25000	47	46	45	54	61	62	57	57	56	52	46	42	34	26	14										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
AIR-TO-GROUND PROPAGATION											
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
DELTA N = 0.0 DB											
OPERATION:											
TAKEOFF POWER = 97 % RPM											
AIRSPEED = 300 KNOTS											
OMEGA 6.6											
A/C CODE: 511											
OPS CODE: 103											
PROFILE VER: A											
18 FEB 76											
PAGE 12											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)				
200	120.2	120.8	133.8	134.3	120.3	121.4	123.7				
250	118.0	118.5	131.5	132.0	119.0	120.1	122.4				
315	115.7	116.2	129.2	129.7	117.8	118.9	121.1				
400	113.4	113.9	126.7	127.3	116.4	117.5	119.6				
500	111.0	111.5	124.2	124.7	115.1	116.2	118.1				
630	108.6	109.1	121.6	122.1	113.6	114.7	116.5				
800	106.1	106.6	118.9	119.4	112.1	113.2	114.8				
1000	103.5	104.1	116.0	116.5	110.6	111.7	112.9				
1250	100.9	101.4	113.0	113.5	109.0	110.1	110.9				
1600	98.2	98.7	109.8	110.3	107.3	108.4	108.7				
2000	95.4	95.9	106.5	107.0	105.5	106.6	106.4				
2500	92.5	93.0	103.0	103.6	103.6	104.7	103.9				
3150	89.5	90.0	99.7	100.3	101.5	102.6	101.6				
4000	86.4	86.8	96.5	96.9	99.4	100.3	99.2				
5300	83.1	83.4	93.1	93.4	97.2	97.8	96.6				
6300	79.7	80.0	89.7	89.9	94.8	95.2	93.9				
8000	76.2	76.3	85.1	86.2	92.3	92.5	91.1				
10000	72.6	72.6	82.3	82.3	89.6	89.6	88.1				
12500	68.7	68.7	78.3	78.3	86.8	86.8	85.1				
16000	64.7	64.7	74.0	74.0	83.8	83.8	81.8				
20000	60.5	60.5	69.6	69.6	80.5	80.5	78.4				
25000	56.0	56.0	65.0	65.0	77.1	77.1	74.8				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



```

200 (-----X-----)
    ( F-111D TAKEOFF POWER )
250 ( . 97 % RPM )
    ( . AIRSPEED = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( . DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 1 )
    ( . IDENT: 6.6-511-103-180276-A )
500 ( . . . . . )
    ( . . . . . )
630 ( . . . . . )
    ( . . . . . )
800 ( . . . . . )
    ( . . . . . )
1000 ( . . . . . )
    ( . . . . . )
1250 ( . . . . . )
    ( . . . . . )
1600 ( . . . . . )
    ( . . . . . )
2000 ( . . . . . )
    ( . . . . . )
2500 ( . . . . . )
    ( . . . . . )
3150 ( . . . . . )
    ( . . . . . )
4000 ( . . . . . )
    ( . . . . . )
5000 ( . . . . . )
    ( . . . . . )
6300 ( . . . . . )
    ( . . . . . )
8000 ( . . . . . )
    ( . . . . . )
10000 ( . . . . . )
    ( . . . . . )
12500 ( . . . . . )
    ( . . . . . )
16000 ( . . . . . )
    ( . . . . . )
20000 ( . . . . . )
    ( . . . . . )
25000 (-----X-----)

```

NOISE LEVEL IN DB

60      70      80      90      100      110      120      130      140

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200 ( ( F-111D TAKEOFF POWER ST-E
250 ( ( 97 % RPM . . . . . ST E
315 ( ( AIRSPEED = 360 KNOTS . . . . . ST.E
400 ( ( TEMP = 59 F REL HUMID = 70 % . . . . . S T E
500 ( ( DELTA N = 6.0 DB . . . . . ST E
630 ( ( NO. OF RECORDS: 1 . . . . .
IDENT: 6.6-511-103-180276-A . . . . .
S 630 ( ( . . . . . ST E
L 800 ( ( . . . . . ST E
A 1000 ( ( . . . . . STE.
D 1250 ( ( . . . . . STE
I 1600 ( ( . . . . . STE.
S 2000 ( ( . . . . . SET.
T 2500 ( ( . . . . . XT
3150 ( ( . . . . . XT
I 4000 ( ( . . . . . XT
N 5000 ( ( . . . . . XT
E 6300 ( ( . . . . . EX
T 8000 ( ( . . . . . .EST
16000 ( ( . . . . . E X
12500 ( ( . . . . . E X
16000 ( ( . . . . . E X
20000 ( ( . . . . . E X
25000 ( ( . . . . . E X
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
NOISE LEVEL IN DB
50 60 70 80 90 100 110 120 130

```

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		A/C CODE: 511																								
( OPERATION: )		OPS CODE: 103																								
( TAKEOFF POWER )		PROFILE VER: A																								
( 97 % RPM )		18 FEB 76																								
( )		PAGE L2																								
( AIRSPEED = 300 KNOTS )		DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
( 200	86	85	85	85	95	103	106	102	104	106	105	104	105	104	104	104	104	105	104	103	103	99	99	100	103	
( 250	84	83	83	83	93	101	104	100	102	104	103	102	103	102	102	102	102	103	102	101	100	97	96	97	100	
( 315	82	81	81	81	91	99	102	98	100	102	101	100	101	100	100	100	100	100	100	99	98	94	93	94	96	
( 400	80	79	79	79	89	97	100	96	98	100	99	98	98	98	98	98	98	98	97	96	95	91	90	91	91	
( 500	78	77	77	77	87	95	97	94	96	98	97	96	97	96	96	95	95	96	95	93	92	88	87	86	86	
( 630	76	75	75	75	85	92	95	91	93	96	95	93	94	94	94	93	93	93	92	91	89	85	83	81	80	
( 800	74	73	73	73	82	90	92	88	91	94	93	91	92	91	91	91	91	91	90	88	85	81	78	76	73	
( 1000	72	71	71	71	79	87	89	85	88	91	91	89	90	89	89	88	88	88	87	84	82	77	73	70	65	
( 1250	70	69	68	76	84	86	82	84	84	88	89	87	88	87	87	86	85	85	83	81	77	73	68	62	54	
( 1600	68	66	65	73	80	82	79	81	85	86	85	85	85	84	84	83	82	82	80	77	73	67	61	53	42	
( 2000	65	63	61	69	76	79	75	77	82	84	82	84	82	83	82	81	80	79	78	76	72	67	61	53	42	28
( 2500	61	59	57	55	72	74	71	72	78	80	80	80	81	79	78	77	76	75	72	67	60	54	43	30	10	
( 3150	57	54	52	60	67	69	66	67	73	76	76	76	78	76	75	74	72	70	67	61	53	45	32	14		
( 4000	53	49	47	54	62	64	60	62	68	71	72	74	74	73	72	70	68	66	61	54	44	35	18			
( 5000	47	44	42	50	57	59	55	57	62	66	68	70	69	68	66	63	60	54	45	33	22	1				
( 6300	42	40	38	45	52	54	50	52	56	60	64	66	66	65	64	61	58	53	46	35	19	7				
( 8000	40	38	35	43	50	51	47	49	53	57	60	62	62	61	59	56	51	46	37	23	3					
( 10000	38	35	33	40	47	49	45	46	50	54	57	58	56	54	49	43	37	25	8							
( 12500	36	33	31	38	45	46	42	43	47	50	52	53	51	48	42	34	26	11								
( 16000	34	31	28	35	42	43	39	40	43	46	46	48	44	40	33	24	12									
( 20000	31	28	26	33	39	40	35	36	39	41	42	41	37	31	22	10										
( 25000	29	26	23	30	36	37	32	32	34	36	36	34	28	21	9											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT: F-111D									
OPERATION: TAKEOFF POWER = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB									
METEOROLOGY: TEMP, REL HUMID = 70 %, DELTA N = 0.0 DB									
IDENTIFICATION: OMEGA 6.6, A/C CODE: 511, OPS CODE: 103, PROFILE VER: A, 18 FEB 76, PAGE M2									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDR)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)		
200	115.2	115.2	128.8	128.8	115.3	115.9	118.2		
250	113.0	113.0	126.5	126.5	114.0	114.6	116.9		
315	110.7	110.7	124.1	124.1	112.8	113.3	115.5		
400	106.4	108.4	121.7	121.7	111.4	112.0	114.1		
500	106.0	106.0	119.2	119.2	110.0	110.6	112.6		
630	103.5	103.5	116.5	116.5	108.6	109.2	110.9		
800	101.0	101.0	113.7	113.7	107.1	107.7	109.1		
1000	98.5	98.5	110.7	110.7	105.5	106.1	107.1		
1250	95.8	95.8	107.5	107.5	103.8	104.4	104.9		
1600	93.0	93.0	104.1	104.1	102.0	102.6	102.4		
2000	90.0	90.0	100.5	100.5	100.1	100.7	99.8		
2500	86.9	86.9	96.5	96.5	97.9	98.5	96.9		
3150	83.4	83.4	92.1	92.1	95.5	96.0	93.5		
4000	79.6	79.6	87.5	87.5	92.7	93.1	89.7		
5000	75.3	75.3	82.5	82.5	89.4	89.7	85.7		
6300	70.7	70.7	77.3	77.3	85.7	86.0	81.3		
8000	66.3	66.3	72.8	72.8	82.4	82.5	77.7		
10000	61.6	61.6	68.0	68.0	78.6	78.6	73.8		
12500	56.4	56.4	62.8	62.8	74.5	74.5	69.6		
16000	50.8	50.8	57.0	57.0	69.9	69.9	64.8		
20000	44.8	44.8	50.7	50.7	64.8	64.8	55.5		
25000	38.2	38.2	43.3	43.3	59.3	59.3	53.1		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

		-----X-----X-----X-----X-----																										
		50	60	70	80	90	100	110	120	130																		
		NOISE LEVEL IN DB																										
200	( F-1110																											
	( 97 % RPM																											
250	( AIRSPEED = 300 KNOTS																											
315	( TEMP = 59 F REL HUMID = 70 %																											
400	( DELTA N = 0.0 DB																											
500	( NO. OF RECORDS: 1																											
	( IDENT: 6.6-511-103-180276-A																											
	(																											
S 630	(																											
L 800	(																											
A 800	(																											
N 1000	(																											
T 1000	(																											
D 1250	(																											
I 1500	(																											
S 1500	(																											
T 2000	(																											
A 2000	(																											
N 2500	(																											
C 2500	(																											
E 3150	(																											
I 4000	(																											
N 4000	(																											
F 5000	(																											
E 6300	(																											
E 8000	(																											
10000	(																											
12500	(																											
16000	(																											
20000	(																											
25000	(																											

```

200 (-----ST-E-----)
  ( F-111D TAKEOFF POWER )
250 ( . 97 % RPM )
  ( AIRSPEED = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
  ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 1 )
  ( IDENT: 6.6-511-103-180276-A )
500 ( . . . . . )
  ( . . . . . )
630 ( . . . . . )
  ( . . . . . )
800 ( . . . . . )
  ( . . . . . )
1000 ( . . . . . )
  ( . . . . . )
1250 ( . . . . . )
  ( . . . . . )
1600 ( . . . . . )
  ( . . . . . )
2000 ( . . . . . )
  ( . . . . . )
2500 ( . . . . . )
  ( . . . . . )
3150 ( . . . . . )
  ( . . . . . )
4000 ( . . . . . )
  ( . . . . . )
5000 ( . . . . . )
  ( . . . . . )
6300 ( . . . . . )
  ( . . . . . )
8000 ( . . . . . )
  ( . . . . . )
10000 ( . . . . . )
  ( . . . . . )
12500 ( . . . . . )
  ( . . . . . )
16000 ( . . . . . )
  ( . . . . . )
20000 ( . . . . . )
  ( . . . . . )
25000 ( . . . . . )
  ( . . . . . )
-----E-----X-----
40 50 60 70 80 90 100 110 120
NOISE LEVEL IN DB

```

	20	30	40	50	60	70	80	90	MEAN	SD
F	.	.	.	.	.	.	.	.	70.3	
R	.	.	.	.	.	X	.	.	67.5	
E	.	.	.	.	.	X	.	.	65.9	
Q	.	.	.	.	.	.	X	.	76.4	
U	.	.	.	.	.	.	.	X	83.5	
E	.	.	.	.	.	.	.	.	86.4	
N	.	.	.	.	.	.	.	X	82.0	
C	.	.	.	.	.	.	X	.	79.4	
G	.	.	.	.	.	.	.	X	84.3	
Y	.	.	.	.	.	.	.	.	82.1	
I	.	.	.	.	.	.	.	.	81.7	
1250	.	.	.	.	.	.	X	.	80.4	
1600	.	.	.	.	.	.	.	.	78.6	
2000	.	.	.	.	.	X	.	.	76.7	
2500	.	.	.	.	.	.	.	.	75.3	
3150	.	.	.	.	.	.	.	.	73.6	
4000	.	.	.	.	.	.	.	.	71.9	
5000	.	.	.	.	.	X	.	.	70.1	
6300	.	.	.	.	.	.	.	.	71.9	
8000	.	.	.	.	.	.	.	.	68.6	
10000	.	.	.	.	.	.	.	.	61.2	
	.	.	.	.	.	.	.	.	54.1	
	.	.	.	.	.	.	.	.	47.3	
	.	.	.	.	.	.	.	.	40.3	

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

F-111D APPROACH POWER 81 % RPM

AIRSPEED = 150 KNOTS  
 SLANT DISTANCE = 1000 FEET  
 NO. OF RECORDS = 1  
 TEMP = 59 F  
 REL HUMID = 70 %  
 IDENT: 6.6-511-105-180276  
 PNLT = 99.7 PNOB  
 PNL = 99.1 PNOB  
 ALT = 88.0 DBA  
 AL = 87.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
F-111D		TEMP = 59 F																							
81 % RPM		REL HUMID = 70 %																							
AIRSPEED = 150 KNOTS		DELTA N = 0.0 DB																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	82	80	80	91	98	101	96	94	99	97	96	95	94	92	91	90	89	88	91	90	83	80	78	79
250	82	80	78	89	96	99	94	92	92	97	95	94	93	92	90	89	88	87	86	89	87	81	77	75	76
315	80	78	76	87	94	97	92	90	90	95	93	92	91	90	88	87	85	84	83	86	85	78	74	72	72
400	78	76	74	84	92	95	90	88	88	93	91	90	89	87	86	85	83	82	81	84	82	75	71	68	67
500	76	74	72	82	90	93	88	86	86	91	88	88	87	85	84	82	81	80	78	81	79	72	67	64	62
630	74	72	70	80	88	90	86	84	84	88	86	86	85	83	81	80	79	77	76	78	76	69	64	59	56
800	72	70	68	78	86	88	84	81	81	86	84	84	83	81	79	78	76	75	73	75	72	65	59	54	49
1000	70	68	66	76	84	86	82	79	84	82	82	80	80	79	77	75	74	72	70	72	69	61	54	47	40
1250	68	65	64	74	81	84	80	77	82	80	79	78	77	76	74	73	71	69	67	68	64	57	48	40	30
1600	66	63	62	72	79	82	78	75	80	78	77	76	74	74	72	70	68	66	63	64	59	51	42	31	18
2000	64	61	60	70	77	80	76	73	78	75	75	73	71	69	67	65	62	60	60	60	54	45	34	20	3
2500	62	59	58	68	75	78	73	71	76	73	72	71	69	66	64	61	59	55	55	54	47	38	24	7	
3150	60	57	56	66	73	76	71	69	73	71	70	68	66	63	61	58	54	50	48	48	40	29	12		
4000	58	55	54	64	71	74	69	66	71	68	67	65	63	60	57	53	49	44	44	41	30	18			
5000	56	53	51	62	69	71	67	64	68	65	64	62	59	56	53	49	44	44	38	33	19	6			
6300	54	51	49	60	66	69	64	61	66	63	61	59	55	52	48	43	37	30	23	6					
8000	52	49	47	57	64	67	62	59	63	59	58	55	51	47	43	37	30	20	11						
10000	50	47	45	55	62	64	59	56	60	56	54	51	47	42	36	29	20	9							
12500	47	44	42	53	59	61	56	53	56	52	50	46	41	35	29	20	9								
16000	45	42	40	50	56	58	53	49	53	48	45	41	35	28	20	9									
20000	43	40	38	47	54	55	50	46	49	43	40	34	27	19	9										
25000	40	37	35	45	51	52	46	41	44	38	33	27	18	8											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*		AIR-TO-GROUND PROPAGATION									IDENTIFICATION:	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (CBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)					
200	103.0	103.6	116.5	117.1	103.6	105.0	109.7					
250	100.9	101.5	114.3	114.9	102.5	103.9	108.4					
315	98.7	99.3	111.9	112.6	101.3	102.7	107.1					
400	96.5	97.1	109.6	110.2	100.1	101.5	105.7					
500	94.3	94.9	107.1	107.7	99.9	100.3	104.3					
630	92.0	92.6	104.5	105.1	97.7	99.1	102.7					
800	89.7	90.3	101.8	102.4	96.4	97.8	101.0					
1000	87.4	88.0	99.1	99.7	95.0	96.4	99.3					
1250	85.0	85.6	96.5	97.1	93.6	95.0	97.7					
1600	82.5	83.1	93.9	94.5	92.1	93.5	96.0					
2000	80.0	80.6	91.1	91.7	90.6	92.0	94.3					
2500	77.4	78.0	88.3	88.9	89.0	90.4	92.4					
3150	74.7	75.3	85.3	85.9	87.3	88.7	90.5					
4000	71.9	72.4	82.2	82.7	85.5	86.7	88.2					
5000	69.0	69.4	79.1	79.4	83.6	84.5	85.7					
6300	66.0	66.2	75.8	76.0	81.6	82.1	83.1					
8000	62.8	62.9	72.3	72.4	79.4	79.7	80.4					
10000	59.4	59.4	68.6	68.6	77.0	77.0	77.4					
12500	55.8	55.8	64.8	64.8	74.5	74.5	74.6					
16000	52.1	52.1	60.8	60.8	71.7	71.7	71.6					
20000	48.1	48.1	56.6	56.6	68.7	68.7	68.4					
25000	43.9	43.9	52.0	52.0	65.5	65.5	64.8					

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON: SMOOTHED TONE CORRECTION FUNCTION.

	40	50	60	70	80	90	100	110	120
200	(	(	(	(	(	(	(	(	(
	F-1110	81 % RPM	APPROACH POWER						
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 150 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 09								
	NO. OF RECORDS: 1								
500	(	(	(	(	(	(	(	(	(
	IDENT: 6.6-511-105-18027b-A								
S	(	(	(	(	(	(	(	(	(
L	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
D	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
S	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
T	(	(	(	(	(	(	(	(	(
A	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
C	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
I	(	(	(	(	(	(	(	(	(
N	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
F	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
E	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) IDENTIFICATION: )  
 ( APPROACH POWER ) ) ) OMEGA 6.6 )  
 ( 81 % RPM ) ) ) A/C CODE: 511 )  
 ( ) ) ) OPS CODE: 105 )  
 ( ) ) ) PROFILE VER: A )  
 ( ) ) ) 18 FEB 76 )  
 ( AIRSPEED = 150 KNOTS ) DELTA N = 0.0 DB ) PAGE L3 )

F-1110

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	77	75	86	93	96	91	89	94	92	91	90	87	86	85	84	83	83	96	85	78	75	73	74
250	77	75	73	84	91	94	89	87	92	90	89	88	87	85	84	83	82	81	84	82	76	72	70	71
315	75	73	71	82	89	92	87	85	90	88	87	86	85	83	82	80	79	78	81	80	73	69	67	67
400	73	71	69	79	87	89	85	83	88	86	85	84	82	81	80	77	76	79	77	77	70	66	63	62
500	71	69	67	77	84	87	83	80	86	83	83	82	80	79	77	76	75	73	76	74	67	62	59	57
630	69	67	65	75	82	84	80	78	83	81	81	80	78	76	75	74	72	71	73	71	64	59	54	51
800	67	65	63	73	79	82	77	75	81	79	79	78	76	74	73	71	70	68	70	67	60	54	49	44
1000	65	63	61	70	76	79	74	72	79	77	77	75	74	72	70	69	67	65	67	64	56	49	42	35
1250	63	60	58	67	73	75	71	69	76	75	74	73	71	69	68	66	64	62	63	59	52	43	35	25
1600	61	57	54	64	70	72	68	65	73	73	72	71	69	67	65	63	61	58	59	54	46	37	26	13
2000	58	54	51	60	66	68	64	62	69	70	70	68	66	64	62	60	57	55	55	49	40	29	15	
2500	55	50	47	55	62	64	59	57	65	67	67	66	64	61	59	56	54	50	49	42	33	19	2	
3150	51	45	42	51	57	59	54	52	61	62	64	63	61	58	56	53	49	45	43	35	24	7		
4000	46	40	37	45	51	53	49	46	56	58	60	58	55	52	48	44	39	36	25	13				
5000	41	36	32	40	46	48	44	41	50	52	56	55	54	51	48	44	39	33	28	14				
6300	36	31	27	36	41	43	39	36	44	47	51	51	49	47	43	38	32	25	18	1				
8000	34	29	25	33	39	41	36	34	41	43	48	47	45	42	38	32	25	15	6					
10000	32	27	23	31	37	39	34	31	38	40	44	43	41	37	31	24	15	4						
12500	29	24	20	29	34	36	31	28	34	36	40	38	35	30	24	15	4							
16000	27	22	18	26	31	33	28	24	31	32	35	33	29	23	15	4								
20000	25	20	16	23	29	30	24	21	27	27	30	26	21	14	4									
25000	22	17	13	21	26	27	20	16	22	22	23	19	12	3										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-1110	98.0	98.8	111.5	112.2	98.6	100.2	104.8	OMEGA	6.6
	95.9	96.6	109.2	110.0	97.5	99.4	103.6	A/C CODE: 511	
	93.7	94.5	106.9	107.7	96.3	97.9	102.3	OPS CODE: 105	
	91.5	92.3	104.5	105.3	95.1	96.7	100.9	PROFILE VER: A	
	89.3	90.0	102.0	102.8	93.9	95.4	99.3	18 FEB 76	
	87.0	87.7	99.3	100.1	92.6	94.1	97.7	PAGE M3	
	84.6	85.4	96.5	97.3	91.2	92.8	95.9		
	82.2	82.9	93.6	94.3	89.8	91.3	93.9		
	79.6	80.3	90.5	91.2	88.2	89.8	91.8		
	76.9	77.7	87.5	88.2	86.6	88.1	89.8		
	74.2	74.9	84.3	85.0	84.8	86.4	87.6		
	71.1	71.9	80.6	81.3	82.7	84.3	84.9		
	67.7	68.5	76.4	77.2	80.3	81.9	81.8		
	63.9	64.5	71.9	72.5	77.5	78.8	77.9		
	59.6	60.1	66.9	67.4	74.2	75.2	73.6		
	55.0	55.3	61.7	62.2	70.7	71.3	69.1		
	51.0	51.2	57.4	57.6	67.6	68.0	65.5		
	46.6	46.6	52.7	52.7	64.3	64.3	61.5		
	41.9	41.9	47.6	47.6	60.5	60.5	57.4		
	36.7	36.7	41.3	41.3	56.3	56.3	52.1		
	31.0	31.0	33.9	33.9	51.6	51.6	45.7		
	24.9	24.9	23.8	23.8	46.5	46.5	36.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	APPROACH POWER									
	40	50	60	70	80	90	100	110	120	
200	(	(	(	(	(	(	(	(	(	)
	F-111D									*P
250	(	(	(	(	(	(	(	(	(	)
	81 % RPM						A+			*P
315	(	(	(	(	(	(	(	(	(	)
	AIR SPEED = 150 KNOTS									
	TEMP = 59 F REL HUMID = 70 %						X			*P
400	(	(	(	(	(	(	(	(	(	)
	DELTA N = 0.0 DB									
	NO. OF RECORDS: 1						X			X
500	(	(	(	(	(	(	(	(	(	)
	IDENT: 6.6-511-105-180276-A						A+			*P
630	(	(	(	(	(	(	(	(	(	)
							A+			*P
800	(	(	(	(	(	(	(	(	(	)
							X			
1000	(	(	(	(	(	(	(	(	(	)
							A+			X
1250	(	(	(	(	(	(	(	(	(	)
							X			*P
1600	(	(	(	(	(	(	(	(	(	)
							A+			*P
2000	(	(	(	(	(	(	(	(	(	)
							A+			*P
2500	(	(	(	(	(	(	(	(	(	)
							A+			X
3150	(	(	(	(	(	(	(	(	(	)
							X			*P
4000	(	(	(	(	(	(	(	(	(	)
							A+			X
5000	(	(	(	(	(	(	(	(	(	)
							X			*P
6300	(	(	(	(	(	(	(	(	(	)
							X			X
8000	(	(	(	(	(	(	(	(	(	)
							X			*P
10000	(	(	(	(	(	(	(	(	(	)
							X			X
12500	(	(	(	(	(	(	(	(	(	)
							X			X
16000	(	(	(	(	(	(	(	(	(	)
							X			X
20000	(	(	(	(	(	(	(	(	(	)
							X			X
25000	(	(	(	(	(	(	(	(	(	)
							X			X

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200 (-----ST-----)
( F-111D APPROACH POWER
( 81 % RPM
( AIRSPEED = 150 KNOTS
( TEMP = 59 F REL HUMID = 70 %
( DELTA N = 0.0 DB
( NO. OF RECORDS: 1
( IDENT: 6.6-511-105-180276-A
(
S 630 ( . . . . . ST E .
L 800 ( . . . . . ST E .
A 800 ( . . . . . ST E .
N 1000 ( . . . . . ST E .
T 1000 ( . . . . . ST E .
D 1250 ( . . . . . STE
I 1600 ( . . . . . STE
S 1600 ( . . . . . STE
T 2000 ( . . . . . STE
A 2500 ( . . . . . STE
N 3150 ( . . . . . SX
E 4000 ( . . . . . XT.
F 5000 ( . . . . . XT.
E 6300 ( . . . . . EX
E 8000 ( . . . . . EX
T 10000 ( . . . . . EX
12500 ( . . . . . EX
16000 ( . . . . . EX
20000 ( . . . . . EX
25000 (-----X-----)
( . . . . . GROUND TO GROUND
( . . . . . E = EPNL
( . . . . . T = SELT
( . . . . . S = SEL
(-----E-----)
30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

```

F R E Q U E N C Y	M E A N V A L U E O F N O R M A L I Z E D 1 / 3 O B S P L I N D B											M E A N	S D	
	20	30	40	50	60	70	80	90						
50	.	.	.	.	.	.	.	.	.	.	.	.	64.4	.
63	.	.	.	.	.	.	.	.	.	.	.	.	64.6	.
80	.	.	.	.	.	.	.	.	.	.	.	.	63.3	.
100	.	.	.	.	.	.	.	.	.	.	.	.	74.3	.
125	.	.	.	.	.	.	.	.	.	.	.	.	82.2	.
160	.	.	.	.	.	.	.	.	.	.	.	.	82.5	.
200	.	.	.	.	.	.	.	.	.	.	.	.	78.4	.
250	.	.	.	.	.	.	.	.	.	.	.	.	78.1	.
315	.	.	.	.	.	.	.	.	.	.	.	.	83.0	.
400	.	.	.	.	.	.	.	.	.	.	.	.	83.6	.
500	.	.	.	.	.	.	.	.	.	.	.	.	84.7	.
630	.	.	.	.	.	.	.	.	.	.	.	.	83.5	.
800	.	.	.	.	.	.	.	.	.	.	.	.	83.0	.
1000	.	.	.	.	.	.	.	.	.	.	.	.	82.3	.
1250	.	.	.	.	.	.	.	.	.	.	.	.	81.5	.
1600	.	.	.	.	.	.	.	.	.	.	.	.	81.4	.
2000	.	.	.	.	.	.	.	.	.	.	.	.	80.9	.
2500	.	.	.	.	.	.	.	.	.	.	.	.	79.5	.
3150	.	.	.	.	.	.	.	.	.	.	.	.	77.8	.
4000	.	.	.	.	.	.	.	.	.	.	.	.	73.9	.
5000	.	.	.	.	.	.	.	.	.	.	.	.	68.0	.
6300	.	.	.	.	.	.	.	.	.	.	.	.	61.8	.
8000	.	.	.	.	.	.	.	.	.	.	.	.	55.9	.
10000	.	.	.	.	.	.	.	.	.	.	.	.	50.3	.

F-111D INTERMEDIATE POWER 86 % RPM  
 AIRSPEED = 350 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %  
 NO. OF RECORDS = 1 IDENT: 6.6-511-106-180276  
 PNLT = 103.5 PNDB  
 PNL = 103.5 PNDB  
 ALT = 91.8 DBA  
 AL = 91.8 DBA



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		AIR-TO-GROUND PROPAGATION																IDENTIFICATION:							
AIRCRAFT:		OPERATION:																OMEGA 6.6							
F-111D		INTERMEDIATE POWER																A/C CODE: 511							
		86 % RPM																OPS CODE: 106							
		AIRSPEED = 350 KNOTS																PROFILE VER: A							
		DELTA N = 0.0 DB																18 FEB 76							
																		PAGE H4							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	79	77	88	96	97	93	92	97	98	99	98	98	98	98	97	98	98	97	97	95	90	88	87	90
250	76	77	75	86	94	95	91	90	95	96	97	96	96	96	96	95	95	96	95	95	93	88	85	84	86
315	74	75	73	84	92	93	89	88	93	94	95	94	94	94	93	93	93	93	93	92	90	85	82	81	82
400	72	73	71	82	90	91	87	86	91	92	93	92	92	92	91	91	91	91	90	90	87	82	79	77	77
500	70	71	69	80	88	89	85	84	89	90	91	90	90	90	89	89	89	89	88	87	84	79	75	73	72
630	68	69	67	78	86	87	83	82	87	88	89	88	88	88	87	86	86	86	85	84	81	76	71	68	66
800	66	67	65	76	84	85	80	80	85	86	87	86	85	85	85	84	84	84	82	81	78	72	67	62	59
1000	64	65	63	74	82	83	78	78	83	84	85	84	83	83	82	82	81	81	80	78	74	68	62	56	50
1250	62	63	61	72	80	80	76	76	81	81	82	81	81	81	80	79	79	78	76	74	70	63	56	48	40
1600	60	61	59	70	78	78	74	74	79	79	80	79	78	78	77	76	76	75	73	70	65	58	49	39	28
2000	58	58	57	68	76	76	72	72	76	77	78	76	76	76	75	73	73	71	69	66	59	52	41	28	13
2500	56	56	55	66	74	74	70	69	74	75	75	74	73	73	72	70	69	68	64	60	53	44	31	15	
3150	54	54	53	64	72	72	68	67	72	72	73	71	70	70	69	67	65	63	59	54	45	35	20		
4000	52	52	51	62	70	70	65	65	69	70	70	68	67	67	65	63	61	58	54	47	36	25			
5000	50	50	49	60	67	67	63	62	67	67	67	65	64	64	61	59	56	53	47	38	24				
6300	48	48	47	57	65	65	61	60	64	64	64	62	60	60	57	54	51	46	39	28					
8000	46	46	44	55	63	63	58	57	61	61	61	58	56	56	52	49	44	38	29						
10000	44	44	42	53	60	60	55	54	58	58	57	54	51	51	47	42	36	29							
12500	41	41	40	50	58	57	52	51	55	54	53	49	45	45	41	35	27	18							
16000	39	39	37	48	55	55	49	48	51	50	48	44	39	33	26	16									
20000	37	37	35	45	52	51	46	44	47	45	43	37	31	24	15										
25000	34	34	32	42	49	48	42	40	42	39	36	30	22	13	2										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:		
(FEET)	(DBA)	(OBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNOB)			
	108.1	108.1	121.3	121.3	105.8	107.0	110.0	OMEGA 6.6		
250	106.0	106.0	119.0	119.0	104.6	105.8	108.7	A/G CODE: 511		
315	103.7	103.7	116.7	116.7	103.3	104.5	107.4	OPS CODE: 106		
400	101.5	101.5	114.2	114.2	102.1	103.3	105.9	PROFILE VER: A		
500	99.1	99.1	111.7	111.7	100.8	102.0	104.4	18 FEB 76		
630	96.8	96.8	109.1	109.1	99.4	100.6	102.7	PAGE I4		
800	94.3	94.3	106.4	106.4	97.9	99.1	101.0			
1000	91.8	91.8	103.5	103.5	96.4	97.6	99.2			
1250	89.2	89.2	100.5	100.5	94.8	96.0	97.2			
1600	86.5	86.5	97.3	97.3	93.1	94.3	95.0			
2000	83.7	83.7	94.0	94.0	91.3	92.5	92.7			
2500	80.7	80.7	90.5	90.5	89.4	90.6	90.2			
3150	77.7	77.7	87.3	87.3	87.3	88.5	88.0			
4000	74.5	74.5	84.0	84.0	85.2	86.1	85.4			
5000	71.2	71.2	80.4	80.4	82.8	83.6	82.6			
6300	67.7	67.7	76.7	76.7	80.4	80.8	79.7			
9000	64.1	64.1	72.9	72.9	77.7	79.0	76.6			
10000	60.2	60.2	68.8	68.8	74.9	74.9	73.3			
12500	56.1	56.1	64.5	64.5	71.8	71.8	70.0			
16000	51.8	51.8	59.8	59.8	68.4	68.4	66.3			
20000	47.2	47.2	54.8	54.8	64.8	64.8	62.3			
25000	42.4	42.4	49.4	49.4	61.0	61.0	57.9			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	INTERMEDIATE POWER																																						
	40	50	60	70	80	90	100	110	120																														
200	(	F-1110	(	.	.	.	.	.	.	.	.	.	.	.	.	X	)																						
	(	86 % RPM	(	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)																					
250	(	AIRSPEED = 350 KNOTS	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)																				
	(	TEMP = 59 F	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)																			
315	(	REL HUMID = 70 %	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)																		
	(	DELTA N = 0.0 DB	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)																	
400	(	NO. OF RECORDS: 1	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)																
	(	IDENT: 6.6-511-106-160276-A	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)															
500	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)															
630	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)														
800	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)													
1000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)												
1250	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)											
1600	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)										
2000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)									
2500	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)								
3150	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)							
4000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)						
5000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)					
6300	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)				
8000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)			
10000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)		
12500	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)	
16000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)	
20000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)
25000	(	.	(	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	)

```

200 (-----INTERMEDIATE POWER-----ST-E-)
    ( F-111D )
    ( 86 % RPM )
250 ( AIRSPEED = 350 KNOTS )
    ( TEMP = 59 F REL HUMID = 70 % )
315 ( DELTA N = 0.0 DB )
    ( NO. OF RECORDS: 1 )
    ( IDENT: 6.6-511-106-180276-A )
500 (-----S T E-----)
    ( S 630 )
    ( L 800 )
    ( A 1000 )
    ( N 1250 )
    ( T 1600 )
    ( T 2000 )
    ( A 2500 )
    ( N 3150 )
    ( C 4000 )
    ( E 5000 )
    ( F 6300 )
    ( E 8000 )
    ( T 10000 )
    ( F 12500 )
    ( E 16000 )
    ( T 20000 )
25000 (-----X-----)

```

NOISE LEVEL IN DB

30 40 50 60 70 80 90 100 110

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
OPERATION:		A/C CODE: 511																							
INTERMEDIATE POWER		OPS CODE: 106																							
86 % RPM:		PROFILE VER: A																							
AIRSPEED = 350 KNOTS		18 FEB 76																							
DELTA N = 0.0 DB		PAGE L4																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	74	72	83	91	92	88	37	92	93	94	93	93	93	93	92	93	93	92	92	90	85	83	82	85
250	71	72	70	81	89	90	86	85	90	91	92	91	91	91	91	90	90	91	90	90	88	83	80	79	81
315	69	70	68	79	87	88	64	83	88	89	90	89	89	89	88	88	88	88	88	87	85	80	77	76	77
400	57	68	66	77	85	85	81	81	86	87	88	87	87	87	86	86	86	86	85	85	82	77	74	72	72
500	65	66	64	75	83	83	79	79	84	85	86	85	85	85	84	84	84	84	83	82	79	74	70	68	67
630	63	64	62	73	81	80	76	77	82	83	84	83	83	83	82	81	81	81	80	79	76	71	66	63	61
800	61	62	60	71	78	78	74	74	80	81	82	81	81	80	80	79	79	79	77	76	73	67	62	57	54
1000	59	60	58	68	75	75	71	71	78	79	80	79	78	77	77	76	76	76	75	73	69	63	57	51	45
1250	57	58	55	65	72	72	67	68	75	76	77	76	76	75	74	74	74	73	71	69	65	58	51	43	35
1600	55	54	52	61	68	68	64	64	72	74	75	74	73	72	71	71	71	70	68	65	60	53	44	34	23
2000	52	51	48	58	65	64	60	60	68	72	73	71	71	70	68	68	68	66	64	61	54	47	36	23	8
2500	49	47	44	53	60	60	56	56	64	68	70	69	68	67	65	64	63	63	59	55	48	39	26	10	
3150	45	42	39	49	55	55	51	51	59	64	67	66	65	64	62	60	58	58	54	49	40	30	15		
4000	40	37	34	43	50	49	45	45	54	59	63	63	62	60	58	56	53	49	42	31	20	1			
5000	35	33	29	38	45	44	40	40	48	54	59	58	58	56	54	51	48	42	33	19	7				
6300	30	28	25	33	40	40	35	35	42	48	54	54	54	52	49	46	41	34	23	6					
8000	28	26	22	31	38	37	33	32	39	45	51	50	50	47	44	39	33	24	11						
10000	26	24	20	29	35	35	30	29	36	42	47	46	45	42	37	31	24	13							
12500	23	21	18	26	33	32	27	26	33	38	43	41	39	36	30	22	13								
16000	21	19	15	24	30	29	24	23	29	34	38	36	33	28	21	11									
20000	19	17	13	21	27	26	21	19	25	29	33	29	25	19	10										
25000	16	14	10	18	24	23	17	15	20	23	26	22	16	8											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*																			
GROUND-TO-GROUND PROPAGATION																			
AIRCRAFT:	OPERATION:	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SELT**	SEL	PNTL**	PNL	AL**	AL	SLANT DISTANCE	AL	AL**	PNL	PNL**	SEL	SELT**	EPNL**
( F-111D	( INTERMEDIATE POWER	( TEMP = 59 F	( REL HUMID = 70 %	( DELTA N = 0.0 DB	(	( DB)	( DB)	( PNOB)	( PNOB)	( DBA)	( DBA)	( FEET)	( DBA)	( DBA)	( PNOB)	( PNOB)	( DB)	( DB)	( EPNOB)
												200	103.1	103.7	116.3	116.9	100.8	102.6	105.6
												250	101.0	101.5	114.0	114.6	99.6	101.4	104.3
												315	98.7	99.3	111.7	112.2	98.3	100.1	102.9
												400	96.5	97.0	109.2	109.8	97.1	98.9	101.5
												500	94.1	94.7	106.6	107.2	95.8	97.5	99.9
												630	91.7	92.3	104.0	104.6	94.4	96.2	98.2
												900	89.3	89.9	101.2	101.8	92.9	94.7	96.5
												1000	86.7	87.3	98.2	98.8	91.4	93.2	94.5
												1250	84.1	84.7	95.0	95.6	89.7	91.5	92.3
												1600	81.3	81.9	91.6	92.2	87.9	89.7	89.9
												2000	78.5	79.0	88.0	88.6	86.1	87.9	87.3
												2500	75.3	75.9	84.1	84.7	84.0	85.7	84.4
												3150	71.9	72.5	80.0	80.6	81.5	83.3	81.2
												4000	68.1	68.6	75.4	75.9	78.8	80.2	77.4
												5000	63.9	64.2	70.5	70.8	75.5	76.6	73.0
												6300	59.2	59.5	65.2	65.4	71.8	72.6	68.4
												8000	54.9	55.0	60.8	60.9	69.5	68.9	64.6
												10000	50.2	50.2	55.9	55.9	64.8	64.8	60.4
												12500	45.1	45.1	50.6	50.6	60.7	60.7	56.1
												16000	39.5	39.5	44.2	44.2	56.1	56.1	50.7
												20000	33.4	33.4	36.4	36.4	51.0	51.0	43.9
												25000	26.6	26.6	28.0	28.0	45.3	45.3	36.4

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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200 (-----A+-----*P-----)
    ( F-1110 INTERMEDIATE POWER )
250 ( . 86 % RPM )
    ( AIRSPEED = 350 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 1 )
    ( IDENT: 6.6-511-106-180276-A )
500 ( . . . . . )
    ( . . . . . )
630 ( . . . . . )
    ( . . . . . )
800 ( . . . . . )
    ( . . . . . )
1000 ( . . . . . )
    ( . . . . . )
1250 ( . . . . . )
    ( . . . . . )
1600 ( . . . . . )
    ( . . . . . )
2000 ( . . . . . )
    ( . . . . . )
2500 ( . . . . . )
    ( . . . . . )
3150 ( . . . . . )
    ( . . . . . )
4000 ( . . . . . )
    ( . . . . . )
5000 ( . . . . . )
    ( . . . . . )
6300 ( . . . . . )
    ( . . . . . )
8000 ( . . . . . )
    ( . . . . . )
10000 ( . . . . . )
    ( . . . . . )
12500 ( . . . . . )
    ( . . . . . )
16000 ( . . . . . )
    ( . . . . . )
20000 ( . . . . . )
    ( . . . . . )
25000 (-----)

```

40 50 60 70 80 90 100 110 120  
 NOISE LEVEL IN DB

INTERMEDIATE POWER

F-111D  
 86 % RPM  
 AIRSPEED = 350 KNOTS  
 TEMP = 59 F REL HUMID = 70 %  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 1  
 IDENT: 6.6-511-106-180276-A

NOISE LEVEL IN DB	30	40	50	60	70	80	90	100	110
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(





TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				
1/3 OCTAVE BAND																				
DISTANCE = 250 FEET																				
NOISE SOURCE/SUBJECT:																				
OPERATION:																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -3.8 DB																				
AIRPLANE CODE 511																				
OPERATION CODE 02013																				
PROFILE VERSION A																				
14 APR 76																				
PAGE C1																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-511-001																				
RUN 01																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -3.8 DB																				
AIRPLANE CODE 511																				
OPERATION CODE 02013																				
PROFILE VERSION A																				
14 APR 76																				
PAGE C1																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-511-001																				
RUN 01																				
BAND CENTER																				
ANGLE (DEGREES)																				
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
50	65<	63	64	64	62	62	63	61	61	64	62	64	64	64	63	64	64	63	60<	40
63	65<	65	66	66	64	65	65	64	65	66	66	65	66	66	66	67	68	65	60<	40
80	65	70	72	72	72	74	73	72	71	73	74	74	73	74	74	74	75	72	60	40
100	64	70	72	71	71	73	71	69	70	73	74	75	74	74	74	75	76	73	62	42
125	59	66	67	66	63	63	64	64	67	69	70	70	69	68	68	70	67	58	38	
160	61	67	67	65	62	61	66	67	68	70	70	71	74	72	71	70	70	59	39	
200	63	69	68	63	61	62	64	62	64	67	68	69	70	70	69	67	70	57	37	
250	66	70	67	65	63	63	65	64	64	66	66	66	67	67	67	67	70	58	38	
315	65	71	68	67	64	64	64	61	60	62	63	63	66	69	68	72	70	59	39	
400	66	71	68	69	64	61	65	60	58	60	60	62	64	65	66	70	69	59	39	
500	67	69	69	71	67	63	66	60	63	60	61	63	63	64	66	68	70	59	39	
630	67	68	71	71	66	62	65	60	61	59	59	61	61	64	66	66	66	56	36	
800	74	77	81	78	74	71	71	69	65	64	64	63	63	66	65	66	67	58	38	
1000	75	77	80	79	75	72	72	70	65	64	64	63	64	65	63	65	65	56	36	
1250	74	78	77	77	75	72	71	68	65	61	62	62	64	64	62	64	63	54	34	
1600	90	95	94	92	87	82	83	79	77	71	69	70	68	71	75	74	74	65	45	
2000	88	94	93	91	87	83	82	80	77	75	74	74	72	75	77	78	76	68	48	
2500	81	85	83	84	81	78	76	74	72	70	70	69	72	74	70	68	68	62	42	
3150	81	85	83	83	82	78	75	74	72	70	70	69	72	74	70	68	67	61	41	
4000	83	87	86	86	85	81	79	78	75	76	74	73	74	74	73	70	70	63	43	
5000	79	83	82	80	79	75	73	72	68	69	68	69	71	71	69	66	65	56	36	
6300	77	80	79	78	78	74	72	70	67	69	68	69	72	73	69	66	64	55	35	
8000	73	76	75	74	74	70	69	66	63	68	65	66	68	68	65	63	62	51<	31	
10000	69	72	70	69	69	65	64	61	61	56	63	63	65	65	62	60	59	47	27	
OVERALL	94	99	98	96	93	89	88	86	84	83	83	83	84	84	84	84	83	74	54	

XXX< = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	OPERATION: IDLE, 65% RPM, F-111D																			
	TEMP = 59 F																			
DISTANCE (FEET)	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
	DELTA W = -3.8 DB																			
	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	108.2	112.9	112.3	110.9	108.1	104.4	103.2	101.3	99.2	99.2	98.2	98.0	99.0	99.3	98.7	98.0	97.8	89.1	68.5	
250	106.0	110.7	110.1	108.6	105.8	102.0	101.0	99.0	96.9	96.8	95.8	95.7	96.6	97.0	96.4	96.6	95.6	86.8	66.1	
315	103.7	108.4	107.8	106.3	103.3	99.6	98.7	96.6	94.4	94.4	93.4	93.2	94.1	94.5	94.1	94.3	93.3	84.5	63.7	
400	101.3	106.0	105.4	104.0	100.8	97.0	96.3	94.0	91.9	91.8	90.8	90.7	91.6	92.0	91.7	91.9	90.9	82.2	61.2	
500	98.9	103.6	103.0	101.5	98.1	94.5	93.8	91.5	89.2	89.1	88.2	88.0	88.9	89.3	89.2	89.5	88.4	79.7	58.7	
630	96.3	101.0	100.4	99.0	95.5	91.9	91.2	89.0	86.6	86.2	85.3	85.1	86.0	86.5	86.6	86.9	85.9	77.1	55.8	
800	93.6	98.3	97.8	96.3	92.7	89.2	88.5	86.2	83.9	83.1	82.2	82.2	82.9	83.7	83.9	84.2	83.2	74.4	53.0	
1000	90.7	95.5	94.9	93.5	89.9	86.3	85.6	83.3	81.0	79.8	79.0	79.2	79.6	80.7	81.0	81.3	80.3	71.5	49.8	
1250	87.7	92.5	91.9	90.5	86.8	83.2	82.6	80.2	77.9	76.4	75.9	76.0	76.3	77.4	77.9	78.3	77.3	68.4	46.0	
1600	84.4	89.2	88.7	87.2	83.4	79.8	79.3	76.9	74.6	73.0	72.5	72.6	72.7	73.9	74.6	75.1	74.0	65.1	41.9	
2000	81.0	85.8	85.3	83.7	79.8	76.2	75.7	73.3	70.9	69.2	68.7	68.9	69.8	70.2	70.9	71.5	70.5	61.5	36.7	
2500	77.2	82.1	81.6	79.9	75.9	72.3	71.8	69.4	66.9	65.1	64.6	64.8	64.4	66.1	66.9	67.6	66.6	57.3	31.0	
3150	73.2	78.1	77.7	75.7	71.6	67.9	67.5	65.0	62.5	60.5	60.0	60.2	59.8	61.6	62.5	63.2	62.2	52.8	23.3	
4000	68.8	73.6	73.2	71.1	66.8	63.0	62.5	59.9	57.4	55.2	54.8	55.0	54.3	56.3	57.3	58.1	57.2	47.7	14.4	
5000	63.8	68.7	68.4	66.2	61.8	57.5	57.6	54.5	52.0	49.1	48.5	48.7	48.3	50.5	51.5	52.4	51.6	40.9	5.5	
6300	58.2	63.2	62.9	60.7	56.1	51.5	51.9	48.6	46.0	41.5	41.1	41.4	40.4	43.2	44.9	46.0	44.8	32.7		
8000	52.0	57.1	56.7	54.5	49.8	44.7	45.6	41.2	38.0	32.8	32.1	32.8	31.7	35.1	36.8	38.2	37.0	20.5		
10000	44.8	49.9	49.7	47.5	41.6	35.6	36.3	31.8	27.8	18.5	18.9	19.3	19.1	24.0	26.7	28.4	29.4	8.5		
12500	33.8	40.6	40.3	37.6	30.8	22.4	24.3	16.5	8.9	4.2	5.7	6.8	5.4	9.6	9.3	17.5	19.8			
16000	15.8	26.6	28.3	23.3	14.3	9.2	12.3	1.2								6.6	8.6			
20000	12.5	12.2	12.2	9.0																
25000																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-111D AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	SINGLE ENGINE, TF30-P-9																		
ENG. TF30-P-9	REL HUMID = 70 %																		
	ESTIMATED NOISE LEVELS																		
GROUND RUNUP	DELTA N = -3.8 DB																		
	RE F-111F LEVELS -0.8 DB																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	111.0	116.0	115.3	113.2	110.4	106.1	105.1	103.4	101.5	101.2	99.9	99.8	100.2	100.7	101.0	101.4	100.1	91.0	70.4
250	108.7	113.7	113.1	111.0	108.0	103.7	102.9	101.1	99.2	98.8	97.5	97.4	97.9	98.4	98.8	99.1	97.9	88.8	68.1
315	106.4	111.4	110.8	108.7	105.6	101.3	100.6	98.6	96.7	96.4	95.1	95.0	95.4	95.9	96.5	96.8	95.6	86.5	65.7
400	104.0	109.1	108.4	106.4	103.0	98.7	98.2	96.1	94.2	93.8	92.5	92.4	92.8	93.4	94.1	94.5	93.2	84.1	63.2
500	101.6	106.6	106.0	103.9	100.3	96.2	95.7	93.6	91.5	91.1	89.8	89.7	90.1	90.7	91.6	92.0	90.8	81.6	60.6
630	99.0	104.1	103.4	101.4	97.7	93.6	93.1	91.0	88.9	88.2	87.0	86.9	87.2	87.9	89.0	89.5	88.2	79.0	57.7
800	96.3	101.4	100.8	98.7	95.0	90.8	90.4	88.3	86.2	85.1	83.9	83.9	84.2	85.1	86.3	86.8	85.5	76.3	54.9
1000	93.4	98.5	97.9	95.9	92.1	88.0	87.6	85.4	83.3	81.7	80.7	81.0	80.9	82.1	83.3	83.9	82.6	73.4	51.7
1250	90.4	95.5	94.9	92.8	89.0	84.8	84.5	82.3	80.2	78.4	77.5	77.8	77.6	78.8	80.2	80.9	79.6	70.4	47.9
1600	87.1	92.2	91.7	89.6	85.6	81.5	81.2	79.0	76.8	74.9	74.2	74.4	74.0	75.3	76.9	77.6	76.3	67.0	43.9
2000	83.7	88.8	88.3	86.1	82.0	77.9	77.6	75.4	73.2	71.2	70.4	70.7	70.1	71.5	73.3	74.0	72.8	63.4	38.6
2500	80.0	85.2	84.6	82.3	78.1	74.0	73.7	71.4	69.2	67.0	66.3	66.6	65.7	67.5	69.3	70.1	68.9	59.2	33.0
3150	75.9	81.2	80.7	78.1	73.8	69.5	69.4	67.1	64.8	62.5	61.7	61.9	61.0	63.0	64.8	65.7	64.5	54.7	25.2
4000	70.9	76.1	75.6	73.0	68.5	64.3	64.3	61.6	59.2	56.8	56.1	56.4	55.4	57.4	59.2	60.2	59.1	49.3	15.9
5000	65.5	70.6	70.2	67.7	63.1	58.5	58.8	55.8	53.4	50.3	49.5	49.8	49.1	51.3	52.9	53.9	52.9	42.1	6.7
6300	59.3	64.4	64.1	61.7	56.9	52.1	52.6	49.5	46.9	42.3	41.7	42.1	41.0	43.8	45.8	47.0	45.7	33.4	
8000	52.6	57.7	57.3	55.0	50.2	45.0	46.0	41.6	38.4	33.2	32.5	33.2	32.0	35.4	37.2	38.7	37.4	20.9	
10000	44.8	49.9	49.7	47.5	41.6	35.6	36.3	31.8	27.8	18.5	18.9	19.8	19.1	24.0	26.7	28.4	29.4	8.5	
12500	33.8	40.6	40.3	37.6	30.8	22.4	24.3	16.5	8.9	4.2	5.7	6.8	6.4	9.6	9.3	17.5	19.8		
16000	15.8	26.6	28.3	23.3	14.3	9.2	12.3	1.2								6.6	8.6		
20000	12.5	12.2	12.2	9.0															
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	OPERATION:																		
	METEOROLOGY:																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
F-111D AIRCRAFT	96.8	101.7	101.0	99.2	95.7	91.6	88.6	86.0	84.4	83.4	83.3	84.0	85.0	84.8	84.5	83.6	81.4	75.6	55.6
ENG. TF30-P-9	94.6	99.5	98.8	97.0	93.5	89.4	86.4	83.8	82.1	81.1	81.0	81.6	82.7	82.6	82.3	81.4	73.4	53.4	33.4
GROUND RUNUP	92.3	97.3	96.6	94.8	91.2	87.1	84.1	81.5	79.7	78.7	78.6	79.2	80.3	80.3	80.1	79.2	71.2	51.2	31.2
	90.0	95.0	94.3	92.5	88.8	84.7	81.7	79.1	77.3	76.3	76.2	76.7	77.8	78.0	77.8	76.9	68.9	48.9	28.9
	87.7	92.6	92.0	90.1	86.4	82.3	81.6	79.3	76.7	74.7	73.8	74.1	75.3	75.5	75.5	74.6	66.5	46.5	26.5
	85.2	90.2	89.6	87.7	83.8	79.8	79.2	76.8	74.2	72.0	71.2	71.4	72.7	73.0	73.0	72.2	64.0	44.0	24.0
	82.7	87.7	87.1	85.1	81.2	77.1	76.6	74.2	71.6	69.3	68.3	68.6	69.9	70.5	70.5	69.7	61.5	41.5	21.5
	80.0	85.1	84.5	82.5	78.4	74.4	73.9	71.4	68.8	66.4	65.5	65.6	67.1	67.7	67.9	67.0	58.8	38.8	18.8
	77.2	82.3	81.7	79.7	75.5	71.4	71.1	68.6	66.0	63.3	62.5	62.5	64.1	64.9	65.1	64.3	56.0	36.0	16.0
	74.3	79.3	78.8	76.7	72.5	68.4	68.1	65.5	62.9	60.0	59.3	59.2	60.9	61.9	62.2	61.4	53.0	33.0	13.0
	71.1	76.2	75.7	73.6	69.2	65.1	64.9	62.3	59.7	56.6	55.9	55.8	57.6	58.7	59.1	58.4	49.9	29.9	9.9
	67.7	72.8	72.3	70.2	65.7	61.6	61.5	58.8	56.2	53.0	52.4	52.1	54.0	55.2	55.7	55.0	46.5	26.5	6.5
	63.9	69.0	68.6	66.4	61.9	57.8	57.8	55.1	52.4	49.0	48.4	48.2	50.2	51.5	52.0	51.4	42.8	22.8	2.8
	59.8	64.9	64.5	62.3	57.3	53.6	53.7	51.0	48.2	44.8	44.2	44.0	46.0	47.3	47.9	47.4	38.7	18.7	8.7
	55.2	60.2	60.0	57.7	53.2	49.0	49.2	46.4	43.6	40.2	39.6	39.4	41.4	42.7	43.3	42.9	34.1	14.1	4.1
	50.0	55.0	54.8	52.5	48.0	43.9	44.1	41.3	38.5	35.1	34.6	34.4	36.4	37.6	38.2	38.0	29.1	9.1	4.1
	44.2	49.1	49.1	46.8	42.4	38.4	38.6	35.8	33.0	29.8	29.5	29.6	31.5	32.3	33.2	33.2	24.1	4.1	4.1
	37.7	42.3	42.7	40.4	36.2	32.3	32.5	29.8	27.0	24.2	24.1	24.5	26.4	26.7	28.1	28.3	18.9	8.9	8.9
	30.6	34.7	35.8	33.5	29.4	25.9	26.0	23.4	20.7	18.4	18.7	19.4	21.1	21.1	22.9	23.3	13.7	3.7	3.7
	23.0	26.5	28.5	26.3	22.3	19.0	19.3	16.6	14.3	12.6	13.1	13.6	15.7	15.6	17.7	18.2	8.3	8.3	8.3
	15.3	18.2	20.0	18.8	14.9	11.9	12.3	9.5	7.9	6.7	7.4	8.1	10.1	10.1	12.3	12.8	2.6	2.6	2.6
	7.4	10.1	12.7	11.1	7.1	4.4	5.2	2.2	1.5	1.0	1.8	2.7	3.4	4.4	4.5	6.7	6.9	6.9	6.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	OPERATION:																			
ENG. TF30-P-9 GROUND RUNUP	TEMP = 59 F																			
	BAR PRESS = 29.92 IN HG																			
DISTANCE (FEET)	REL HUMID = 70 %																			
	DELTA N = -3.8 DB																			
	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
( 200	99.5	104.7	104.0	101.6	97.9	93.3	92.7	90.7	88.3	86.4	85.1	85.0	85.2	86.4	87.2	87.1	85.9	77.5	57.5	
( 250	97.5	102.5	101.8	99.4	95.7	91.1	90.5	88.4	86.1	84.1	82.8	82.7	82.9	84.1	84.9	84.9	83.8	75.3	55.3	
( 315	95.1	100.3	99.6	97.1	93.4	88.8	88.3	86.2	83.8	81.7	80.4	80.4	80.5	81.7	82.7	82.7	81.5	73.1	53.1	
( 400	92.8	98.0	97.3	94.9	91.0	86.4	85.9	83.8	81.4	79.2	78.0	77.9	78.0	79.2	80.3	80.4	79.2	70.8	50.8	
( 500	90.4	95.7	95.0	92.5	88.6	84.0	83.6	81.4	79.0	76.7	75.5	75.4	75.4	76.7	77.9	78.0	76.9	68.4	48.4	
( 630	87.9	93.3	92.6	90.1	86.0	81.4	81.1	78.9	76.5	74.0	72.9	72.8	72.7	74.1	75.4	75.6	74.5	66.0	46.0	
( 800	85.4	90.7	90.1	87.5	83.4	78.8	78.5	76.3	73.9	71.2	70.1	70.1	69.9	71.3	72.8	73.1	72.0	63.4	43.4	
( 1000	82.7	88.1	87.5	84.9	80.7	76.0	75.8	73.5	71.1	68.3	67.2	67.2	66.9	68.5	70.1	70.5	69.4	60.7	40.7	
( 1250	79.9	85.3	84.7	82.1	77.7	73.1	73.0	70.7	68.3	65.3	64.2	64.2	63.8	65.5	67.2	67.7	66.6	57.9	37.9	
( 1600	77.0	82.4	81.8	79.1	74.7	70.1	70.0	67.6	65.2	62.0	61.0	61.1	60.5	62.3	64.2	64.8	63.7	55.0	35.0	
( 2000	73.8	79.2	78.7	76.0	71.4	66.8	66.9	64.4	61.9	58.6	57.6	57.7	57.1	59.0	61.0	61.7	60.7	51.8	31.8	
( 2500	70.4	75.8	75.3	72.6	67.9	63.3	63.4	60.9	58.5	54.9	54.0	54.2	53.4	55.4	57.6	58.3	57.3	48.4	28.4	
( 3150	66.7	72.1	71.6	68.8	64.1	59.5	59.7	57.1	54.7	51.0	50.1	50.3	49.5	51.6	53.8	54.6	53.7	44.7	24.7	
( 4000	62.0	67.3	67.0	64.2	59.5	55.0	55.3	52.6	50.1	46.4	45.5	45.8	45.0	47.1	49.2	49.9	49.2	40.2	20.2	
( 5000	56.9	62.1	61.8	59.2	54.5	50.1	50.3	47.7	45.0	41.3	40.6	40.8	40.1	42.3	44.1	44.8	44.3	35.3	15.3	
( 6300	51.1	56.2	56.0	53.5	48.9	44.6	44.9	42.2	39.4	35.9	35.2	35.5	34.9	37.0	38.5	39.3	38.9	29.9	9.9	
( 8000	44.8	49.6	49.7	47.3	42.8	38.7	38.9	36.3	33.4	30.1	29.8	30.0	29.8	31.8	32.7	33.7	33.7	24.5	4.5	
( 10000	37.7	42.3	42.7	40.4	36.2	32.3	32.5	29.8	27.0	24.2	24.1	24.3	24.5	26.4	26.7	28.1	28.3	18.9		
( 12500	30.6	34.7	35.0	33.5	29.4	25.9	26.0	23.4	20.7	18.4	18.7	19.0	19.4	21.1	21.1	22.9	23.3	13.7		
( 16000	23.0	26.5	28.5	26.3	22.3	19.0	19.3	16.6	14.3	12.6	13.1	13.6	14.1	15.7	15.6	17.7	18.2	8.3		
( 20000	15.3	18.2	20.8	18.8	14.9	11.9	12.3	9.5	7.9	6.7	7.4	8.1	8.7	10.1	10.1	12.3	12.8	2.6		
( 25000	7.4	10.1	12.7	11.1	7.1	4.4	5.2	2.2	1.5	1.0	1.0	2.7	3.4	4.4	4.5	6.7	6.9			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

) IDENTIFICATION:  
 ) OMEGA 8.2  
 ) TEST 74-511-001  
 ) RUN 01  
 ) AIRCRAFT CODE 511  
 ) OPERATION CODE 02013  
 ) PROFILE VERSION A  
 ) 14 APR 76  
 ) PAGE J1

) METEOROLOGY:  
 ) TEMP = 59 F  
 ) BAR PRESS = 29.92 IN HG  
 ) REL HUMID = 70 %  
 ) DELTA N = -3.8 DB

) OPERATION:  
 ) IDLE, 65% RPM, F-111D  
 ) SINGLE ENGINE, TF30-P-9  
 ) ESTIMATED NOISE LEVELS  
 ) KE F-111F LEVELS -0.8 DB

) DISTANCE = 250 FEET  
 ) NOISE SOURCE/SUBJECT:  
 ) F-111D AIRCRAFT  
 ) ENG. TF30-P-9  
 ) GROUND RUNUP

ANGLE	NOISE LEVEL IN PNMdB OR DBA										
	20	30	40	50	60	70	80	90	100	110	120
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: AIRCRAFT CODE 511																			
F-111D AIRCRAFT ( ENG RUNUP 80% RPM, F-111D ) TEMP = 59 F ( OPERATION CODE 02019 )																			
ENG. TF30-P-9 ( SINGLE ENGINE, TF30-P-9 ) BAR PRESS = 29.92 IN HG ( PROFILE VERSION A )																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ( 14 APR 76 )																			
( RE F-111F LEVELS -0.8 DB ) DELTA N = -3.8 DB ( PAGE C2 )																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	72	71	74	71	74	74	75	74	75	77	78	80	82	88	91	93	91	81	71
63	72	74	75	76	76	74	76	78	79	79	80	82	85	91	95	97	93	83	73
80	75	76	76	79	79	79	80	82	83	85	86	87	89	92	97	99	99	94	74
100	77	78	81	83	83	82	82	82	83	85	86	87	89	95	99	103	99	89	79
125	79	80	81	81	81	78	81	83	84	84	86	87	89	93	97	103	98	88	78
150	81	82	82	81	80	79	82	83	85	85	87	88	90	93	95	100	100	90	80
200	81	82	82	79	79	79	80	81	83	83	85	86	88	91	94	95	95	86	76
250	81	81	81	81	79	80	82	83	84	82	82	82	85	88	92	90	91	81	71
315	75	81	81	80	79	79	79	78	79	76	78	80	83	86	88	90	89	79	69
400	79	80	81	81	76	75	75	75	76	74	75	78	79	83	85	86	84	74	64
500	79	78	80	79	74	75	75	76	75	74	74	78	78	82	83	84	83	73	63
630	79	78	80	79	76	76	76	76	77	76	75	79	78	82	81	82	80	70	60
800	78	77	80	79	75	76	75	76	76	75	75	78	77	80	80	81	78	68	58
1000	80	80	82	79	78	77	76	77	76	75	75	77	76	79	78	78	75	65	55
1250	85	85	85	83	82	81	79	79	76	75	75	76	75	78	77	77	73	63	53
1600	88	87	87	86	84	83	82	80	78	75	75	76	75	77	76	76	73	63	53
2000	87	86	87	86	83	82	80	79	76	76	76	76	75	77	76	75	72	62	52
2500	95	93	93	92	90	89	86	80	82	79	78	78	76	77	76	76	74	64	54
3150	98	97	97	96	95	92	91	91	88	85	85	84	80	81	80	81	79	69	59
4000	91	90	90	89	89	87	85	86	83	83	85	85	83	83	79	78	76	65	56
5000	91	89	89	87	87	85	83	84	80	78	77	77	76	76	74	73	72	62	52
6300	90	88	88	87	87	85	83	84	80	79	78	77	76	76	74	73	72	63	53
8000	85	84	83	82	82	79	78	79	76	77	76	76	74	74	72	71	70	60	50
10000	81	81	80	79	78	76	75	75	71	74	74	72	70	71	69	58	67	57	47
OVERALL	102	101	101	100	99	97	95	96	95	94	95	96	97	101	105	108	105	95	85

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY:																		
	TEMP = 59 F																		
F-1110 AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. TF30-P-9	DFTAN = -3.8 DB																		
	RE F-111F LEVELS -0.8 DB																		
GROUND RUNUP	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	119.8	118.5	118.7	117.5	116.5	114.5	113.4	113.3	111.2	109.3	109.4	109.9	108.8	110.5	110.7	112.9	110.8	100.7	90.5
250	117.4	116.2	116.4	115.2	114.2	112.2	111.1	111.0	108.9	107.0	107.1	107.6	106.5	108.3	108.6	110.8	108.7	98.6	88.3
315	115.1	113.8	114.0	112.9	111.8	109.8	108.7	108.6	106.6	104.6	104.8	105.2	104.2	105.9	106.5	108.6	106.6	96.4	86.1
400	112.6	111.3	111.5	110.4	109.3	107.4	106.3	106.2	104.1	102.2	102.3	102.7	101.7	103.5	104.2	106.4	104.3	94.1	83.7
500	110.0	108.7	109.0	107.8	106.7	104.8	103.7	103.6	101.6	99.6	99.8	100.1	99.1	101.0	102.0	104.1	101.9	91.7	81.1
630	107.3	106.0	105.2	105.1	104.0	102.0	100.9	100.9	98.8	96.9	97.0	97.3	96.3	98.3	99.6	101.6	99.3	89.1	78.3
800	104.3	103.1	103.3	102.2	101.0	99.1	98.0	97.9	95.9	94.0	94.1	94.3	93.4	95.4	97.0	99.1	96.6	86.3	75.4
1000	101.2	99.9	100.2	99.1	97.9	96.0	94.9	94.8	92.8	90.8	91.0	91.2	90.2	92.4	94.1	96.2	93.7	83.3	72.3
1250	97.8	96.5	96.8	95.7	94.5	92.6	91.5	91.4	89.4	87.4	87.6	87.9	86.7	89.1	91.0	93.1	90.6	79.9	69.0
1600	94.1	92.8	93.1	92.0	90.7	88.9	87.8	87.7	85.7	83.7	83.9	84.2	83.0	85.5	87.4	89.7	87.1	76.3	65.2
2000	90.0	88.7	89.1	87.9	86.6	84.8	83.7	83.6	81.7	79.6	79.8	80.2	79.0	81.6	83.6	85.8	83.2	72.3	61.1
2500	85.4	84.2	84.5	83.4	82.0	80.2	79.1	79.0	77.2	75.1	75.3	75.7	74.6	77.3	78.8	81.2	78.7	67.8	56.3
3150	80.2	79.1	79.4	78.3	76.8	75.1	74.0	73.9	72.1	70.0	70.2	70.7	69.6	72.9	74.2	76.1	73.7	62.7	50.7
4000	74.8	73.5	73.9	72.9	70.9	69.2	68.1	68.0	66.2	64.1	64.3	65.0	64.6	68.2	69.3	70.7	68.4	57.4	44.8
5000	68.8	67.5	67.9	66.9	64.5	63.1	61.8	61.7	59.8	57.6	57.8	59.7	59.3	63.1	64.2	65.6	63.3	51.6	38.6
6300	62.1	60.8	61.3	60.3	57.7	56.6	55.6	55.0	53.4	51.4	51.6	54.1	53.6	57.6	58.8	60.2	57.8	45.5	29.2
8000	55.5	54.6	55.2	54.0	51.4	50.4	49.2	48.5	47.8	46.0	46.1	49.1	48.6	53.1	54.6	56.2	53.7	40.4	22.5
10000	48.2	47.4	48.1	46.3	43.2	42.2	41.6	41.7	41.8	39.9	40.0	43.5	43.1	48.1	50.0	51.9	49.1	35.3	12.4
12500	39.5	38.7	40.5	39.0	34.7	34.8	33.9	34.1	35.0	32.7	32.8	37.2	37.2	42.7	44.9	46.9	44.0	29.7	2.4
16000	31.4	30.8	33.0	31.3	24.6	25.2	24.1	25.8	26.3	21.7	21.9	29.8	30.3	36.5	39.2	41.5	38.6	20.1	
20000	19.5	18.3	22.6	20.6	9.4	11.0	10.6	12.6	12.0	9.4	6.9	17.7	19.2	28.5	32.8	35.6	32.3	10.5	
25000	7.6	5.8	8.5	10.0							5.7	8.0	13.1	22.8	29.4	25.4			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	121.8	120.5	120.5	119.4	118.4	116.3	115.3	115.0	113.0	110.6	110.6	111.5	110.4	111.9	110.7	114.0	112.1	102.0	91.8
250	119.5	118.2	118.2	117.1	116.1	114.0	113.0	112.7	110.7	108.3	108.3	109.2	108.1	109.6	108.6	111.9	110.0	99.8	89.6
315	117.1	115.8	115.9	114.7	113.7	111.6	110.6	110.4	108.3	105.9	106.0	106.8	105.7	107.3	106.5	109.8	107.8	97.6	87.3
400	114.6	113.3	113.4	112.2	111.3	109.1	108.1	107.9	105.9	103.5	103.5	104.3	103.2	104.9	104.2	107.6	105.5	95.4	85.0
500	112.0	110.7	110.8	109.7	108.7	106.5	105.5	105.3	103.3	100.9	101.0	101.7	100.6	102.3	102.0	105.3	103.1	92.9	82.3
630	109.3	108.0	108.1	106.9	105.9	103.8	102.8	102.6	100.6	98.2	98.3	98.9	97.9	99.6	99.6	102.8	100.6	90.3	79.6
800	106.4	105.1	105.2	104.0	103.0	100.9	99.9	99.6	97.7	95.2	95.4	95.9	94.9	96.8	97.0	100.2	97.9	87.5	76.7
1000	103.2	101.9	102.1	100.9	99.8	97.7	96.8	96.5	94.6	92.1	92.2	92.8	91.7	93.8	94.1	97.4	95.0	84.5	73.6
1250	99.8	98.5	98.7	97.5	96.4	94.3	93.4	93.1	91.2	88.7	88.8	89.4	88.2	90.5	91.0	94.2	91.8	81.2	70.2
1600	96.1	94.8	95.0	93.8	92.7	90.6	89.6	89.4	87.5	85.0	85.1	85.8	84.5	86.9	87.4	90.8	88.4	77.5	66.5
2000	92.0	90.7	90.9	89.8	88.6	86.5	85.6	85.3	83.5	80.9	81.0	81.8	80.6	83.0	83.4	87.0	84.5	73.5	62.3
2500	87.4	86.2	86.4	85.2	84.0	82.0	81.0	80.7	79.0	76.4	76.5	77.3	76.1	78.7	78.8	82.4	80.0	69.0	57.5
3150	82.2	81.1	81.3	80.1	78.8	76.8	75.9	75.6	73.8	71.3	71.4	72.3	71.1	74.3	74.2	77.2	75.0	63.9	51.9
4000	76.5	75.1	75.4	74.4	72.5	70.6	69.6	69.3	67.6	65.1	65.3	66.2	65.0	68.3	69.3	71.6	69.4	58.4	45.8
5000	70.1	68.7	69.1	68.0	65.7	64.1	62.9	62.7	60.8	58.4	58.6	60.6	60.2	63.9	64.2	66.3	64.0	52.3	39.3
6300	62.9	61.6	62.0	61.0	59.5	57.3	56.4	55.7	54.1	51.9	52.1	54.7	54.3	58.2	58.8	60.7	58.3	46.0	29.7
8000	55.9	55.0	55.6	54.3	51.8	50.7	49.6	48.9	48.1	46.3	46.4	49.4	48.9	53.4	54.6	56.5	54.0	40.6	22.8
10000	48.2	47.4	48.1	46.3	43.2	42.2	41.6	41.7	41.8	39.9	40.0	43.5	43.1	48.1	50.0	51.9	49.1	35.3	12.4
12500	39.5	38.7	40.5	39.0	34.7	34.8	33.9	34.1	35.0	32.7	32.8	37.2	37.2	42.7	44.9	46.9	44.0	29.7	2.4
16000	31.4	30.8	33.0	31.3	24.6	25.2	24.1	25.8	26.3	21.7	21.9	29.8	30.3	36.5	39.2	41.5	38.6	20.1	
20000	19.5	18.3	22.6	20.6	9.4	11.0	10.6	12.6	12.0	9.4	6.9	17.7	19.2	29.5	32.8	35.6	32.3	10.5	
25000	7.6	5.8	8.5	10.0							5.7	8.0	13.1	22.8	29.4	25.4			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
200	105.3	103.8	103.9	102.7	101.5	99.5	98.0	97.9	95.2	93.4	93.6	93.8	92.4	94.3	94.9	96.5	94.9	84.9	84.9	74.9
250	103.0	101.5	101.6	100.4	98.2	97.1	95.7	95.6	92.9	91.1	91.3	91.5	90.1	92.1	92.8	94.5	92.8	82.8	82.8	72.8
315	100.6	99.1	99.2	98.1	96.8	94.8	93.3	93.2	90.6	88.7	88.9	89.2	87.8	89.9	90.7	92.4	90.8	80.8	80.8	70.8
400	98.2	96.6	96.8	95.6	94.4	92.3	90.9	90.7	88.1	86.2	86.5	86.7	85.5	87.7	88.5	90.2	88.6	78.6	78.6	68.6
500	95.6	94.1	94.2	93.1	91.8	89.7	88.3	88.1	85.6	83.7	83.9	84.2	83.0	85.3	86.2	88.0	86.3	76.3	76.3	66.3
630	92.9	91.4	91.6	90.4	89.1	87.0	85.6	85.4	82.9	81.0	81.2	81.6	80.5	82.9	83.8	85.6	83.9	73.9	73.9	63.9
800	90.1	88.6	88.7	87.6	86.2	84.2	82.8	82.6	80.1	78.1	78.3	78.9	77.8	80.3	81.3	83.1	81.3	71.3	71.3	61.3
1000	87.1	85.6	85.8	84.6	83.2	81.2	79.8	79.5	77.1	75.1	75.3	76.0	75.0	77.7	78.7	80.5	78.7	68.7	68.7	58.7
1250	83.8	82.4	82.6	81.5	79.9	78.0	76.6	76.3	74.0	72.0	72.1	72.9	72.1	74.9	75.9	77.6	75.8	65.8	65.8	55.8
1600	80.4	78.9	79.2	78.1	76.4	74.5	73.1	72.9	70.7	68.6	68.8	69.8	69.0	72.0	72.9	74.6	72.7	62.7	62.7	52.7
2000	76.6	75.2	75.5	74.4	72.6	70.8	69.5	69.2	67.1	65.1	65.3	66.5	65.8	69.0	69.9	71.4	69.5	59.5	59.5	49.5
2500	72.5	71.2	71.6	70.4	68.5	66.9	65.5	65.3	63.3	61.5	61.5	63.1	62.4	65.7	66.4	67.8	65.8	55.8	55.8	45.8
3150	68.1	66.9	67.3	66.1	64.1	62.7	61.3	61.1	59.4	57.6	57.6	59.5	58.8	62.2	62.7	64.0	61.9	51.9	51.9	41.9
4000	63.4	62.2	62.8	61.5	59.3	58.1	56.9	56.6	55.2	53.5	53.5	55.6	54.9	58.3	58.6	59.8	57.6	47.6	47.6	37.6
5000	58.2	57.3	58.0	56.5	54.3	53.3	52.1	51.9	50.7	49.1	49.1	51.4	50.7	54.1	54.3	55.4	53.2	43.2	43.2	33.2
6300	52.8	52.0	52.9	51.3	49.1	48.3	47.1	47.0	46.0	44.5	44.5	47.0	46.2	49.7	49.8	50.9	48.6	38.6	38.6	28.6
8000	47.4	46.8	47.8	46.1	43.8	43.3	42.3	42.3	41.6	40.3	40.3	42.3	42.2	45.9	46.2	47.5	45.2	35.2	35.2	25.2
10000	41.8	41.3	42.6	40.9	38.3	38.1	37.2	37.4	37.1	35.8	35.8	38.5	38.0	41.8	42.4	43.8	41.7	31.7	31.7	21.7
12500	36.0	35.5	37.1	35.4	32.6	32.6	31.9	32.2	32.2	31.0	31.0	33.9	33.6	37.4	38.3	40.0	38.0	28.0	28.0	18.0
16000	30.0	29.6	31.3	29.8	26.7	26.9	26.4	26.8	27.1	25.9	26.0	28.9	28.9	32.7	34.2	36.2	34.1	24.1	24.1	14.1
20000	23.9	23.5	25.2	24.0	20.6	20.9	20.7	21.2	21.7	20.5	20.9	23.6	24.0	27.9	29.9	32.3	30.2	20.2	20.2	10.2
25000	17.5	17.2	18.8	17.8	14.5	14.8	14.8	15.4	16.1	15.1	15.8	18.2	19.2	23.1	25.7	28.4	26.2	16.2	16.2	6.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-111D AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG. TF30-P-9	REL HUMID = 70 %																			
GROUND RUNUP	PE F-111F LEVELS -0.8 DB																			
	DELTA N = -3.8 DB																			
	PAGE G2																			
	IDENTIFICATION:																			
	OMEGA 8.2																			
	TEST 74-511-001																			
	RUN 02																			
	AIRCRAFT CODE 511																			
	OPERATION CODE 02019																			
	PROFILE VERSION A																			
	14 APR 76																			
	PAGE G2																			
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	107.3	105.8	105.7	104.6	103.5	101.2	99.9	99.6	97.0	94.7	94.9	95.3	93.9	95.7	94.9	97.7	96.2	86.2	76.2	
250	105.0	103.5	103.4	102.3	101.2	98.9	97.6	97.3	94.7	92.4	92.5	93.1	91.6	93.5	92.8	95.6	94.1	84.1	74.1	
315	102.7	101.1	101.1	99.9	98.8	96.5	95.2	94.9	92.3	90.0	90.1	90.7	89.3	91.3	90.7	93.5	92.0	82.0	72.0	
400	100.2	98.6	98.6	97.5	96.3	94.1	92.7	92.4	89.9	87.5	87.7	88.3	87.0	89.0	88.5	91.4	89.8	79.8	69.8	
500	97.6	96.1	96.1	94.9	93.7	91.5	90.2	89.9	87.4	85.0	85.1	85.8	84.5	86.7	86.2	89.1	87.5	77.5	67.5	
630	94.9	93.4	93.4	92.3	91.0	88.8	87.5	87.1	84.7	82.3	82.4	83.1	82.0	84.3	83.8	86.8	85.1	75.1	65.1	
800	92.1	90.6	90.6	89.5	88.2	86.0	84.6	84.3	81.9	79.4	79.5	80.4	79.3	81.7	81.3	84.3	82.6	72.6	62.6	
1000	89.1	87.6	87.6	86.5	85.1	82.9	81.6	81.3	78.9	76.4	76.6	77.5	76.5	79.1	78.7	81.6	79.9	69.9	59.9	
1250	85.9	84.4	84.4	83.3	81.8	79.7	78.4	78.0	75.8	73.3	73.4	74.5	73.6	76.3	75.9	78.8	77.0	67.0	57.0	
1600	82.4	80.9	81.0	79.9	78.3	76.3	75.0	74.6	72.4	69.9	70.0	71.3	70.5	73.4	72.9	75.7	73.9	63.9	53.9	
2000	78.6	77.2	77.4	76.2	74.5	72.6	71.3	70.9	68.9	66.4	66.5	68.1	67.4	70.3	69.9	72.5	70.7	60.7	50.7	
2500	74.6	73.2	73.4	72.3	70.4	68.6	67.4	67.0	65.1	62.7	62.7	64.6	63.9	67.1	66.4	69.0	67.1	57.1	47.1	
3150	70.2	68.9	69.2	68.0	66.0	64.4	63.2	62.8	61.1	58.9	58.8	61.0	60.3	63.5	62.7	65.2	63.1	53.1	43.1	
4000	65.0	63.8	64.3	63.0	60.9	59.6	58.4	58.0	56.6	54.5	54.5	56.9	56.1	59.4	58.6	60.7	58.6	48.6	38.6	
5000	59.5	58.5	59.1	57.6	55.5	54.4	53.2	53.0	51.7	49.9	49.9	52.3	51.6	54.9	54.3	56.1	53.9	43.9	33.9	
6300	53.6	52.8	53.6	52.0	49.9	49.0	47.9	47.7	46.7	45.1	45.0	47.6	46.8	50.2	49.8	51.4	49.1	39.1	29.1	
8000	47.8	47.2	48.2	46.5	44.2	43.6	42.6	42.6	42.0	40.5	40.5	43.2	42.5	46.1	46.2	47.7	45.5	35.5	25.5	
10000	41.8	41.3	42.6	40.9	38.3	38.1	37.2	37.4	37.1	35.8	35.8	38.5	38.0	41.8	42.4	43.8	41.7	31.7	21.7	
12500	36.0	35.5	37.1	35.4	32.6	32.6	31.9	32.2	32.2	31.0	31.0	33.9	33.6	37.4	38.3	40.0	38.0	28.0	18.0	
16000	30.0	29.6	31.3	29.8	26.9	26.9	26.4	26.8	27.1	25.9	26.0	28.9	28.9	32.7	34.2	36.2	34.1	24.1	14.1	
20000	23.9	23.5	25.2	24.0	20.6	20.9	20.7	21.2	21.7	20.5	20.9	23.6	24.0	27.9	29.9	32.3	30.2	20.2	10.2	
25000	17.5	17.2	18.8	17.8	14.5	14.8	14.8	15.4	16.1	15.1	15.8	18.2	19.2	23.1	25.7	28.1	26.2	16.2	6.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( ( DISTANCE = 250 FEET  
 ( ( NOISE SOURCE/SUBJECT:  
 ( ( F-111D AIRCRAFT  
 ( ( ENG. TF30-P-9  
 ( ( GROUND RUNUP  
 ( ( ( OPERATION:  
 ( ( ENG RUNUP 80% RPM, F-111D  
 ( ( SINGLE ENGINE, TF30-P-9  
 ( ( ESTIMATED NOISE LEVELS  
 ( ( RE F-111F LEVELS -0.8 DB  
 ( ( ( METEOROLOGY:  
 ( ( TEMP = 59 F  
 ( ( BAR PRESS = 29.92 IN HG  
 ( ( REL HUMID = 70 %  
 ( ( DELTA N = -3.8 DB  
 ( ( ( IDENTIFICATION:  
 ( ( OMEGA 8.2  
 ( ( TEST 74-511-001  
 ( ( RUN 02  
 ( ( AIRCRAFT CODE 511  
 ( ( OPERATION CODE 02019  
 ( ( PROFILE VERSION A  
 ( ( 14 APR 76  
 ( ( PAGE J2

ANGLE	NOISE LEVEL IN PNDB OR DBA										
	20	30	40	50	60	70	80	90	100	110	120
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
BAND CENTER FREQ (HZ)	NOISE SOURCE/SUBJECT:																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -.9 DB																			
OPERATION:																			
ENG RUNUP 85% RPM, F-111D																			
SINGLE ENGINE, TF30-P-9																			
ESTIMATED NOISE LEVELS																			
RE F-111F LEVELS -0.8 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-511-001																			
RUN 03																			
AIRCRAFT CODE 511																			
OPERATION CODE 01018																			
PROFILE VERSION A																			
14 APR 76																			
PAGE 03																			
50	73	77	75	76	77	78	78	80	81	83	85	90	93	99	102	100	90	80	
63	77	79	79	79	80	80	81	81	84	84	88	92	97	104	107	102	92	82	
80	78	81	82	82	83	84	83	83	84	86	90	94	99	106	109	103	93	83	
100	80	83	85	84	85	86	86	86	88	90	94	98	102	109	113	106	96	86	
125	82	85	85	85	85	85	85	87	89	91	95	98	103	106	113	108	98	88	
160	84	87	87	85	84	85	86	86	89	91	93	101	105	107	115	111	101	91	
200	85	88	85	86	84	85	86	87	89	92	94	99	104	108	110	108	98	88	
250	84	86	87	88	86	86	89	86	87	89	92	96	100	106	101	105	95	85	
315	83	87	86	88	84	87	85	84	85	88	91	95	99	102	104	100	90	80	
400	84	86	88	86	83	82	83	79	80	84	85	90	93	97	102	95	85	75	
500	84	85	86	86	82	82	82	79	81	84	83	90	92	93	96	99	91	81	71
630	84	84	86	85	82	82	80	82	85	84	91	91	92	94	96	89	79	69	
800	83	84	86	84	82	82	81	80	82	85	91	91	91	92	93	87	77	67	
1000	84	86	86	84	82	82	81	80	81	84	85	89	89	90	92	85	75	65	
1250	84	87	85	84	83	83	81	80	81	84	85	89	88	89	90	82	72	62	
1600	92	90	88	87	85	85	83	81	81	85	89	88	88	87	88	81	71	61	
2000	97	91	88	87	84	85	82	83	83	85	89	87	86	87	86	81	71	61	
2500	91	91	90	89	86	86	83	82	83	85	87	86	84	84	83	78	68	58	
3150	97	98	98	97	95	93	90	91	88	87	89	87	85	86	85	82	72	62	
4000	95	95	95	94	94	93	90	93	90	89	91	88	86	86	86	82	72	62	
5000	89	89	89	89	87	87	85	84	84	84	84	84	84	82	82	81	77	67	57
6300	88	89	88	87	86	85	82	85	82	82	84	82	80	81	79	74	64	54	
8000	83	84	84	83	82	82	79	83	80	81	80	83	80	78	79	78	73	63	53
10000	80	81	80	79	79	78	75	79	77	78	77	80	78	75	76	75	69	59	49
OVERALL	103	103	103	102	100	100	99	99	98	100	101	105	107	111	116	120	116	106	96

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	PERCEIVED NOISE LEVEL (PNDB)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	119.7	120.6	120.1	119.6	117.4	116.7	114.6	115.9	114.3	114.4	115.0	117.8	117.4	118.9	121.9	124.6	120.6	110.5	100.4
250	117.4	118.3	117.3	115.1	114.4	112.3	113.5	112.0	112.1	112.7	115.5	115.2	116.8	119.8	122.5	118.5	108.5	98.3	
315	115.1	116.0	115.4	114.9	112.6	112.1	110.0	111.1	109.6	109.7	110.3	113.2	112.9	114.6	117.6	120.4	116.4	106.3	96.2
400	112.6	113.5	113.0	112.5	110.3	109.6	107.5	108.6	107.1	107.2	107.9	110.7	110.5	112.4	115.4	118.2	114.2	104.1	93.9
500	110.1	111.0	110.4	109.9	107.8	107.0	105.0	105.9	104.4	104.6	105.3	108.2	107.9	110.0	113.0	115.9	111.8	101.7	91.5
630	107.4	108.3	107.7	107.2	105.0	104.3	102.3	103.0	101.6	101.8	102.5	105.4	105.3	107.5	110.5	113.4	109.3	99.2	88.9
800	104.5	105.4	104.8	104.3	102.1	101.4	99.4	100.0	98.6	98.8	99.6	102.5	102.6	104.8	107.9	110.9	106.7	96.5	86.2
1000	101.4	102.3	101.7	101.2	99.0	98.3	96.3	96.6	95.3	95.8	96.4	99.5	99.7	102.0	105.1	108.0	103.9	93.6	83.3
1250	98.1	98.9	98.4	97.9	95.7	95.0	93.0	93.1	91.9	92.4	93.1	96.2	96.5	98.9	102.0	105.0	100.8	90.5	79.9
1600	94.5	95.3	94.7	94.2	92.0	91.3	89.3	89.4	88.2	88.8	89.5	92.7	93.3	95.5	98.7	101.7	97.4	87.1	76.3
2000	90.9	91.3	90.7	90.2	87.9	87.2	85.3	85.3	84.2	84.9	85.6	89.2	90.0	92.0	95.0	98.1	93.7	83.3	72.3
3150	82.6	81.7	81.2	80.7	78.3	77.7	75.9	75.6	74.7	75.1	76.9	81.0	81.8	83.6	86.4	89.5	84.7	73.8	62.7
4000	77.8	76.0	75.5	74.9	72.5	71.9	70.2	69.8	69.1	71.2	72.1	76.5	77.3	78.7	81.6	84.4	79.1	68.1	56.8
5000	72.4	70.1	69.1	68.5	66.1	66.0	64.6	63.6	63.7	66.2	67.0	71.7	72.4	73.8	76.7	79.2	73.7	62.6	50.7
6300	66.4	64.5	63.4	62.4	60.1	60.2	58.9	57.4	58.2	60.9	61.3	66.6	67.2	68.7	71.6	74.1	68.3	57.0	44.5
8000	60.0	58.7	58.0	57.0	54.3	54.5	53.6	52.1	53.2	56.2	55.6	62.1	63.1	64.8	67.9	70.6	64.8	53.1	39.9
10000	52.8	52.3	52.7	51.8	48.5	48.4	48.1	46.2	47.4	51.0	51.4	57.5	58.6	60.6	63.9	66.7	61.2	48.9	34.7
12500	45.0	45.9	46.7	45.9	42.0	42.2	42.1	39.8	41.4	45.0	45.4	52.1	53.8	56.1	59.6	62.6	57.5	44.3	28.7
16000	38.0	38.9	39.9	39.4	35.0	35.0	35.1	32.3	34.6	38.0	38.5	46.2	48.5	51.1	54.9	58.5	53.4	39.1	20.7
20000	29.5	30.7	32.5	32.1	26.6	27.0	27.3	22.6	24.9	30.9	31.0	39.4	42.0	45.0	49.4	54.3	49.0	33.8	8.4
25000	18.1	20.1	22.2	21.7	13.4	14.4	14.5	12.9	9.9	17.4	18.4	31.6	35.0	38.4	43.4	43.4	43.7	27.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PND9)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-111D AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. TF30-P-9	DELTA N = -.8 DB																		
	RE F-111F LEVELS -6.8 DB																		
GROUND RUNUP	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.7	122.4	121.8	121.5	119.1	118.0	115.8	117.5	116.0	115.5	116.1	117.8	117.4	118.9	122.4	125.6	120.6	118.5	100.4
250	119.4	120.1	119.5	119.2	116.8	115.7	113.5	115.2	113.6	113.2	113.8	115.5	115.2	116.8	120.3	123.5	118.5	108.5	98.3
315	117.0	117.8	117.2	116.8	114.5	113.3	111.2	112.8	111.2	110.8	111.5	113.2	112.9	114.6	118.1	121.4	116.4	106.3	96.2
400	114.6	115.3	114.7	114.4	112.0	110.9	108.8	110.2	108.7	108.3	109.0	110.7	110.5	112.4	115.9	119.2	114.2	104.1	93.9
500	112.0	112.7	112.2	111.8	109.4	108.3	106.2	107.6	106.1	105.7	106.4	108.2	107.9	110.0	113.5	116.9	111.8	101.7	91.5
630	109.3	110.0	109.5	109.1	106.7	105.6	103.5	104.7	103.3	102.9	103.6	105.4	105.3	107.5	111.0	114.4	109.3	99.2	88.9
800	106.4	107.2	106.6	106.3	103.8	102.7	100.6	101.6	100.2	99.9	100.7	102.5	102.6	104.8	108.4	111.8	106.7	96.5	86.2
1000	103.3	104.1	103.5	103.2	100.7	99.6	97.6	98.3	97.0	96.9	97.5	99.5	99.7	102.0	105.6	109.0	103.9	93.6	83.3
1250	100.0	100.7	100.1	99.8	97.3	96.2	94.2	94.8	93.5	93.5	94.2	96.2	96.5	98.9	102.5	106.0	100.8	90.5	79.9
1600	96.4	97.1	96.5	96.1	93.6	92.6	90.6	91.1	89.8	89.9	90.6	92.7	93.3	95.5	99.2	102.7	97.4	87.1	76.3
2000	92.8	93.0	92.5	92.1	89.6	88.5	86.6	87.0	85.8	86.0	86.7	89.2	90.0	92.0	95.5	99.1	93.7	83.3	72.3
2500	88.9	88.5	88.0	87.6	85.1	84.0	82.1	82.4	81.4	81.7	82.5	85.2	86.0	88.0	91.4	95.0	89.5	78.8	67.8
3150	84.6	83.5	83.0	82.6	80.0	79.0	77.1	77.3	76.4	77.2	78.1	81.0	81.8	83.6	86.9	90.5	84.7	73.8	62.7
4000	79.3	77.5	76.9	76.5	73.9	73.0	71.1	71.2	70.5	72.1	73.0	76.5	77.3	78.7	82.0	85.2	79.1	68.1	56.8
5000	73.6	71.2	70.2	69.7	67.1	66.3	65.4	64.6	64.6	66.8	67.6	71.7	72.4	73.8	77.0	79.8	73.7	62.6	50.7
6300	67.2	65.2	64.1	63.2	60.8	60.7	59.4	58.1	58.8	61.3	61.8	66.6	67.2	68.7	71.8	74.5	68.3	57.0	44.5
8000	60.4	59.0	58.3	57.4	54.7	54.7	53.8	52.4	53.6	56.4	56.8	62.1	63.1	64.8	68.0	70.8	64.8	53.1	39.9
10000	52.8	52.3	52.7	51.8	48.5	48.4	48.1	46.2	47.4	51.0	51.4	57.5	58.6	60.6	63.9	66.7	61.2	48.9	34.7
12500	45.0	45.9	46.7	45.9	42.0	42.2	42.1	39.8	41.4	45.0	45.4	52.1	53.8	56.1	59.6	62.6	57.5	44.3	28.7
16000	38.0	38.9	39.9	38.9	35.0	35.0	35.1	32.3	34.6	38.0	38.5	46.2	48.5	51.1	54.9	58.5	53.4	39.1	20.7
20000	29.5	30.7	32.5	32.1	26.6	27.0	27.3	22.6	24.9	30.9	31.0	39.4	42.0	45.0	49.4	54.3	49.0	33.8	8.4
25000	18.1	20.1	22.2	21.7	13.4	14.4	14.5	12.9	9.9	17.4	18.4	31.6	35.0	38.4	43.4	49.4	43.7	27.0	

\* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OAS)													IDENTIFICATION:						
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													OMEGA	8.2					
NOISE SOURCE/SUBJECT:													TEST 74-511-001	PUN 03					
OPERATIONS:													AIRCRAFT CODE	511					
F-111D AIRCRAFT													OPERATION CODE	01018					
ENG. TF30-P-9													PROFILE VERSION	A					
GROUND RUNUP													14 APR	76					
METEOROLOGY:													PAGE	F3					
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -.8 D3																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.9	105.6	104.9	104.3	102.4	101.8	99.3	100.4	98.5	98.9	99.5	102.8	102.7	104.1	106.7	109.3	105.7	95.7	85.7
250	103.6	103.3	102.6	102.0	100.1	99.5	97.0	98.0	96.2	96.7	97.2	100.6	100.6	102.0	104.7	107.2	103.7	93.7	83.7
315	101.3	100.9	100.2	99.6	97.7	97.1	94.7	95.6	93.8	94.4	94.9	98.4	98.4	99.9	102.6	105.2	101.6	91.6	81.6
400	98.9	98.5	97.8	97.2	95.2	94.6	92.2	93.1	91.4	92.0	92.6	96.1	96.2	97.8	100.5	103.1	99.5	89.5	79.5
500	96.4	96.0	95.2	94.6	92.6	92.0	89.7	90.4	88.8	89.6	90.1	93.8	93.9	95.5	98.2	100.8	97.2	87.2	77.2
630	93.8	93.3	92.5	91.9	89.9	89.3	87.0	87.7	86.1	87.0	87.6	91.3	91.6	93.2	95.9	98.5	94.8	84.8	74.8
800	91.1	90.5	89.7	89.1	87.0	86.4	84.2	84.7	83.3	84.4	85.0	88.8	89.1	90.7	93.4	96.1	92.2	82.2	72.2
1000	88.2	87.5	86.7	86.1	84.0	83.4	81.3	81.0	80.4	81.7	82.3	86.3	86.6	88.2	90.9	93.5	89.5	79.5	69.5
1250	85.2	84.4	83.6	82.9	80.7	80.2	78.2	78.3	77.3	78.8	79.4	83.6	84.0	85.5	88.1	90.8	86.5	76.5	66.5
1600	82.0	81.1	80.2	79.5	77.3	76.8	75.0	74.8	74.1	75.9	76.4	80.8	81.2	82.7	85.1	87.9	83.4	73.4	63.4
2000	78.5	77.5	76.7	75.9	73.6	73.2	71.6	71.1	70.7	72.8	73.3	77.9	78.4	79.8	82.1	84.9	80.0	70.0	60.0
2500	74.8	73.7	72.9	72.1	69.7	69.5	68.0	67.2	67.2	69.6	70.0	74.9	75.3	76.5	78.7	81.4	76.2	66.2	56.2
3150	70.9	69.6	69.0	68.1	65.7	65.5	64.2	63.2	63.6	66.2	66.6	71.6	71.9	73.0	74.9	77.6	72.1	62.1	52.1
4000	66.5	65.3	64.8	63.8	61.4	61.3	60.2	59.0	59.7	62.5	62.8	68.0	68.2	69.1	70.9	73.4	67.5	57.5	47.5
5000	61.8	60.7	60.3	59.3	56.9	56.9	55.9	54.6	55.5	58.4	58.6	63.9	64.1	64.9	66.6	69.0	62.9	52.9	42.9
6300	56.6	55.8	55.6	54.6	52.2	52.2	51.5	49.9	51.0	54.0	54.2	59.6	59.7	60.5	62.1	64.4	58.3	48.3	38.3
8000	51.2	51.0	51.3	50.2	47.7	47.7	47.0	45.6	46.7	49.8	49.9	55.5	55.7	56.7	58.5	61.0	55.0	45.0	35.0
10000	45.7	46.0	46.6	45.6	43.0	43.0	42.5	40.9	42.2	45.3	45.3	51.1	51.5	52.6	54.7	57.4	51.7	41.7	31.7
12500	40.1	40.8	41.7	40.8	38.0	38.0	37.7	36.0	37.4	40.4	40.3	46.3	46.9	48.3	50.7	53.5	48.1	38.1	28.1
16000	34.5	35.2	36.4	35.6	32.6	32.7	32.6	30.7	32.1	35.1	35.1	41.0	42.0	43.7	46.5	49.5	44.5	34.5	24.5
20000	28.5	29.4	30.7	29.9	26.9	27.0	27.1	25.1	26.5	29.3	29.5	35.3	36.8	39.0	42.1	45.4	40.8	30.8	20.8
25000	22.2	23.3	24.6	23.9	20.9	21.0	21.4	19.4	20.7	23.2	23.8	29.3	31.4	34.1	37.6	41.1	36.9	26.9	16.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.8	107.3	106.6	106.2	104.1	103.1	100.5	102.0	100.2	100.0	100.6	102.8	102.7	104.1	107.2	110.3	105.7	95.7	85.7
250	105.5	105.1	104.3	103.9	101.8	100.8	98.2	99.7	97.9	97.8	98.3	100.6	100.6	102.0	105.2	108.2	103.7	93.7	83.7
315	103.2	102.7	102.0	101.6	99.4	98.4	95.9	97.3	95.5	95.5	96.0	98.4	98.4	99.9	103.1	106.2	101.6	91.6	81.6
400	100.8	100.3	99.5	99.1	96.9	95.9	93.4	94.7	93.0	93.1	93.7	96.1	96.2	97.8	101.0	104.1	99.5	89.5	79.5
500	98.3	97.7	97.0	96.5	94.3	93.3	90.9	92.1	90.5	90.6	91.2	93.8	93.9	95.5	98.7	101.8	97.2	87.2	77.2
630	95.7	95.1	94.3	93.9	91.6	90.6	88.2	89.3	87.8	88.1	88.7	91.3	91.6	93.2	96.4	99.5	94.8	84.8	74.8
800	93.0	92.3	91.5	91.0	88.7	87.7	85.5	86.4	85.0	85.5	86.1	88.8	89.1	90.7	93.9	97.1	92.2	82.2	72.2
1000	90.1	89.3	88.5	88.0	85.6	84.7	82.5	83.3	82.1	82.8	83.4	86.3	86.6	88.2	91.4	94.5	89.5	79.5	69.5
1250	87.1	86.2	85.3	84.8	82.4	81.5	79.4	80.0	79.0	79.9	80.5	83.6	84.0	85.5	88.6	91.8	86.5	76.5	66.5
1500	83.9	82.8	82.0	81.5	78.9	78.3	76.2	76.5	75.7	77.0	77.5	80.8	81.2	82.7	85.6	88.9	83.4	73.4	63.4
2000	80.5	79.3	78.4	77.9	75.3	74.5	72.8	72.8	72.4	73.9	74.4	77.9	78.4	79.8	82.6	85.9	80.0	70.0	60.0
2500	76.8	75.5	74.7	74.1	71.4	70.7	69.2	68.9	68.9	70.7	71.2	74.9	75.3	76.5	79.2	82.4	76.2	66.2	56.2
3150	72.8	71.4	70.7	70.0	67.4	66.8	65.4	64.9	65.2	67.3	67.7	71.6	71.9	73.0	75.4	78.6	72.1	62.1	52.1
4000	68.1	66.7	66.2	65.4	62.8	62.4	61.2	60.4	61.0	63.4	63.7	68.0	68.2	69.1	71.3	74.2	67.5	57.5	47.5
5000	62.9	61.8	61.4	60.5	57.9	57.7	56.6	55.6	56.5	59.1	59.3	63.9	64.1	64.9	66.9	69.6	62.9	52.9	42.9
6300	57.3	56.5	56.3	55.3	52.8	52.7	51.8	50.6	51.6	54.4	54.6	59.6	59.7	60.5	62.3	64.8	58.3	48.3	38.3
8000	51.6	51.4	51.6	50.6	48.0	48.0	47.3	45.9	47.1	50.0	50.1	55.5	55.7	56.7	58.6	61.2	55.0	45.0	35.0
10000	45.7	46.0	46.6	45.6	43.0	43.0	42.5	40.9	42.2	45.3	45.3	51.1	51.5	52.6	54.7	57.4	51.7	41.7	31.7
12500	40.1	40.8	41.7	40.8	38.0	38.0	37.7	36.0	37.4	40.4	40.3	46.3	46.9	48.3	50.7	53.5	48.1	38.1	28.1
16000	34.5	35.2	36.4	35.6	32.7	32.7	32.6	30.7	32.1	35.1	35.1	41.3	42.0	43.7	46.5	49.5	44.5	34.5	24.5
20000	28.5	29.4	30.7	29.9	26.9	27.0	27.1	25.1	26.5	29.3	29.5	35.3	36.8	39.0	42.1	45.4	40.8	30.8	20.8
25000	22.2	23.3	24.6	23.9	20.9	21.0	21.4	19.4	20.7	23.2	23.8	29.3	31.4	34.1	37.6	41.1	36.9	26.9	16.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: AIRCRAFT  
 F-111D AIRCRAFT  
 ENG. TF30-P-9  
 GROUND RUNUP  
 IDENTIFICATION:  
 OMEGA 8.2  
 TEST 74-511-001  
 RUN 03  
 AIRCRAFT CODE 511  
 OPERATION CODE 01018  
 PROFILE VERSION A  
 14 APR 76  
 PAGE J3

METEOROLOGY:  
 TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -.8 DB

OPERATION:  
 ENG RUNUP 85% RPM, F-111D  
 SINGLE ENGINE, TF30-P-9  
 ESTIMATED NOISE LEVELS  
 RE F-111F LEVELS -0.3 DB

P=PNLT A=AL T=ALT

ANGLE	30	40	50	60	70	80	90	100	110	120	130
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

NOISE LEVEL IN PNDB OR DBA

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		) OMEGA 8.2																	
DISTANCE = 250 FEET		) TEST 74-511-001																	
		) RUN 04																	
NOISE SOURCE/SUBJECT:		) METEOROLOGY:																	
( F-1110 AIRCRAFT		) MIL PWR, 95% RPM, F-1110																	
( ENG. TF30-P-3		) TEMP = 59 F																	
( GROUND RUNUP		) SINGLE ENGINE, TF30-P-3																	
		) BAR PRESS = 29.92 IN HG																	
		) ESTIMATED NOISE LEVELS																	
		) REL HUMID = 70 %																	
		) RE F-111F LEVELS -0.8 DB																	
		) DELTA N = -.8 DB																	
		) PAGE C4																	
BAND CENTER		ANGLE (DEGREES)																	
FREQ (HZ)	J	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	77	77	79	80	80	81	84	83	87	88	90	92	98	103	109	111	107	97	87
63	80	80	83	83	83	83	85	86	89	89	92	95	100	106	113	115	109	99	89
80	83	83	86	86	86	87	88	89	91	92	93	97	102	109	115	118	112	102	92
100	85	88	88	88	87	89	90	90	93	95	97	100	105	112	119	121	116	106	96
125	87	89	90	90	88	89	90	92	94	96	97	101	107	112	116	121	117	107	97
160	91	92	92	91	90	90	91	93	96	97	100	103	110	117	116	123	119	109	99
200	90	92	91	90	90	90	91	91	92	96	99	102	109	118	120	118	108	98	98
250	87	89	92	92	90	90	92	93	92	94	99	101	108	114	119	117	119	109	99
315	87	91	94	92	90	91	91	91	92	93	95	99	106	113	118	120	118	108	98
400	89	90	93	93	90	90	89	90	91	93	95	99	104	113	115	120	117	107	97
500	97	96	102	96	91	91	90	91	94	96	94	100	104	108	115	117	117	107	97
630	94	94	95	95	93	91	90	91	93	96	96	101	104	107	114	116	113	103	93
800	87	93	95	95	94	93	92	92	94	96	97	101	104	106	113	115	111	101	91
1000	85	90	97	93	94	93	93	93	94	96	97	100	103	106	111	114	109	99	89
1250	84	88	90	91	92	92	92	93	94	96	97	100	107	104	110	112	107	97	87
1600	91	89	90	90	91	93	92	93	94	96	98	100	103	104	110	111	106	96	86
2000	96	91	88	88	87	89	89	90	94	96	98	101	102	104	108	110	105	95	85
2500	87	84	85	85	86	86	88	89	93	95	97	99	100	102	106	108	103	93	83
3150	85	83	85	85	86	87	88	90	94	95	98	100	101	102	106	108	103	93	83
4000	90	83	84	85	86	86	88	88	93	95	97	99	101	102	106	108	103	93	83
5000	84	84	82	83	84	85	86	86	91	92	94	95	98	99	102	105	107	102	82
6300	83	77	79	80	81	82	83	83	89	90	93	94	96	98	102	105	99	89	79
8000	79	74	75	76	77	78	79	80	87	88	90	92	94	96	101	105	98	88	78
10000	75	71	72	73	74	75	76	76	84	85	87	89	91	94	101	104	95	85	75
OVERALL	103	103	106	104	103	103	103	104	106	108	110	113	119	124	128	130	127	117	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNOB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
200	117.5	115.1	117.1	115.2	115.1	116.0	116.5	117.4	120.9	122.5	124.7	127.1	129.8	133.3	137.3	139.7	136.1	126.1	116.1	
250	115.3	112.9	114.9	113.0	112.9	113.7	114.2	115.2	118.6	120.3	122.4	124.9	127.6	131.1	135.1	137.5	134.0	124.0	113.9	
315	113.0	110.6	112.8	110.8	110.7	111.5	111.9	112.9	116.3	118.0	120.1	122.5	125.3	129.0	132.9	135.4	131.8	121.8	111.8	
400	110.7	108.4	110.6	108.6	108.4	109.2	109.5	110.5	113.9	115.6	117.7	120.2	122.9	126.7	130.7	133.1	129.6	119.6	109.6	
500	108.3	106.0	108.3	106.3	106.0	106.8	107.0	108.0	111.4	113.0	115.2	117.7	120.5	124.3	128.4	130.8	127.4	117.3	107.3	
630	105.6	103.5	105.9	103.9	103.5	104.3	104.5	105.4	108.7	110.4	112.5	115.1	117.9	121.7	125.9	128.4	125.0	115.0	104.9	
800	103.1	100.9	103.5	101.4	100.9	101.7	101.9	102.7	105.9	107.6	109.7	112.3	115.1	119.1	123.4	125.9	122.6	112.5	102.4	
1000	100.4	99.2	101.0	98.8	98.2	99.0	99.1	99.9	102.9	104.7	106.7	109.4	112.2	116.2	120.8	123.4	120.0	110.0	99.0	
1250	97.4	95.3	98.3	96.0	95.3	96.1	96.2	96.9	99.7	101.7	103.5	106.4	109.3	113.2	117.8	120.6	117.1	107.0	96.9	
1600	94.2	92.2	95.5	93.1	92.2	92.9	93.0	93.8	96.5	98.4	100.1	103.2	106.0	109.9	114.9	117.7	114.3	104.2	94.0	
2000	90.8	89.2	92.6	90.1	89.6	89.6	89.6	90.4	92.9	94.9	96.6	99.7	102.6	106.6	111.8	114.7	111.3	101.1	90.9	
2500	87.0	85.8	89.4	86.7	85.2	85.9	85.9	86.7	89.1	91.1	92.7	95.9	98.8	102.7	108.4	110.9	107.8	97.6	87.3	
3150	82.8	82.0	85.6	82.9	81.5	81.9	81.9	82.6	84.8	86.8	88.4	91.6	94.6	98.5	104.4	106.6	103.8	93.6	83.3	
4000	78.1	77.7	81.4	78.5	77.4	77.5	77.4	78.1	80.1	82.1	83.6	86.9	90.2	93.9	100.0	102.0	99.4	89.2	78.9	
5000	73.0	73.0	76.8	73.9	72.9	72.6	72.5	73.2	75.1	77.2	78.5	81.8	85.4	89.1	95.2	97.2	94.7	84.4	74.1	
6300	68.0	68.1	72.0	68.9	68.1	67.5	67.3	67.9	69.8	72.0	73.1	76.7	80.3	84.1	90.3	92.3	89.8	79.5	69.2	
8000	63.9	64.1	68.1	64.9	63.6	63.0	62.6	63.0	65.1	67.4	68.6	72.3	76.2	80.2	86.4	88.5	86.1	75.8	65.3	
13000	59.4	59.8	64.0	60.6	58.8	58.0	57.5	58.0	60.3	62.6	63.6	67.5	71.7	76.1	82.4	84.5	82.2	71.0	61.2	
12500	54.5	54.9	59.3	55.8	53.3	52.5	51.9	52.8	55.2	57.5	58.2	62.6	67.0	71.7	78.1	80.2	78.0	67.5	56.7	
16000	49.1	49.6	54.3	50.5	47.4	46.5	45.9	46.8	49.7	51.8	52.1	57.1	61.9	66.9	73.4	75.5	73.3	62.7	51.6	
20000	42.9	43.3	48.5	44.3	40.0	39.7	39.0	39.8	42.9	45.4	45.6	51.3	56.4	61.7	68.2	70.4	68.2	57.4	45.9	
25000	35.0	35.1	41.5	36.6	31.5	31.4	30.4	31.3	35.1	37.8	38.2	44.2	50.1	55.8	62.5	64.8	62.6	51.3	38.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	OPERATION:																			
F-111D AIRCRAFT																				
ENG. TF30-P-9																				
GROUND RUNUP																				
PE F-111F LEVELS -0.8 DB																				
DELTA N = -.8 DB																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
AIRCRAFT CODE 511																				
OPERATION CODE 01004																				
PROFILE VERSION A																				
14 APR 76																				
PAGE 54																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-511-001																				
RUN 04																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	120.0	116.7	119.5	115.2	115.1	116.0	116.5	117.4	120.9	122.5	124.7	127.1	129.8	133.3	137.8	139.7	136.1	126.1	116.1	
250	117.8	114.5	117.4	113.0	112.9	113.7	114.2	115.2	118.6	120.3	122.4	124.9	127.6	131.1	135.7	137.5	134.0	124.0	113.9	
315	113.6	110.3	113.0	108.6	108.4	109.2	109.5	110.5	113.9	115.6	117.7	120.2	122.9	126.7	131.3	133.1	129.6	119.6	109.6	
500	110.8	107.6	110.7	106.3	106.0	106.8	107.0	108.0	111.4	113.0	115.2	117.7	120.5	124.3	129.0	130.8	127.4	117.3	107.3	
630	108.3	105.1	108.4	103.9	103.5	104.3	104.5	105.4	108.7	110.4	112.5	115.1	117.9	121.7	126.4	128.4	125.0	115.0	104.9	
800	105.7	102.6	105.9	101.4	100.9	101.7	101.9	102.7	105.9	107.6	109.7	112.3	115.1	119.1	124.0	125.9	122.6	112.5	102.4	
1000	102.9	99.8	103.4	98.8	98.2	99.0	99.1	99.9	102.9	104.7	106.7	109.4	112.2	116.2	121.3	123.4	120.0	110.0	99.8	
1250	99.9	96.9	100.7	96.0	95.3	96.1	96.2	96.9	99.7	101.7	103.5	106.4	109.3	113.2	118.4	120.6	117.1	107.0	96.3	
1600	96.7	93.6	97.5	93.1	92.2	92.9	93.0	93.8	96.5	98.4	100.1	103.2	106.0	109.9	115.5	117.7	114.3	104.2	94.0	
2000	93.3	90.8	95.0	90.1	88.9	89.6	89.6	90.4	92.9	94.9	96.6	99.7	102.6	106.6	112.4	114.7	111.3	101.1	90.9	
2500	89.6	87.5	91.8	86.7	85.2	85.9	85.9	86.7	89.1	91.1	92.7	95.9	98.8	102.7	108.9	110.9	107.8	97.6	87.3	
3150	85.4	83.6	88.0	82.9	81.5	81.9	81.9	82.6	84.8	86.8	88.4	91.6	94.6	98.5	105.0	106.6	103.8	93.6	83.3	
4000	80.2	79.0	83.3	78.5	77.4	77.5	77.4	78.1	80.1	82.1	83.6	86.9	90.2	93.9	100.4	102.0	99.4	89.2	78.9	
5000	74.6	74.0	78.2	73.9	72.9	72.6	72.5	73.2	75.1	77.2	78.5	81.8	85.4	89.1	95.5	97.2	94.7	84.4	74.1	
6300	69.0	68.7	72.9	68.9	68.1	67.5	67.3	67.9	69.8	72.0	73.1	76.7	80.3	84.1	90.5	92.3	89.8	79.5	69.2	
8000	64.4	64.4	68.6	64.9	63.6	63.0	62.6	63.0	65.1	67.4	68.6	72.3	76.2	80.2	86.6	88.5	86.1	75.8	65.3	
10000	59.4	59.8	64.0	60.6	58.8	58.0	57.5	58.0	60.3	62.6	63.6	67.6	71.7	76.1	82.4	84.5	82.2	71.8	61.2	
12500	54.5	54.9	59.3	55.8	53.3	52.5	51.9	52.8	55.2	57.5	58.2	62.6	67.0	71.7	78.1	80.2	78.0	67.5	56.7	
16000	49.1	49.6	54.3	50.5	47.4	46.5	45.9	46.8	49.7	51.8	52.1	57.1	61.9	66.9	73.4	75.5	73.3	62.7	51.6	
20000	42.9	43.3	48.5	44.3	40.0	39.7	39.0	39.8	42.9	45.4	45.6	51.3	56.4	61.7	68.2	70.4	68.2	57.4	45.9	
25000	35.0	35.1	41.5	36.6	31.5	31.4	30.4	31.3	35.1	37.8	38.2	44.2	50.1	55.8	62.5	64.8	62.6	51.3	38.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	( MIL PHR, 95% RPM, F-111D ) TEMP = 59 F ( SINGLE ENGINE, TF30-P-9 ) BAR PRESS = 29.92 IN HG ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ( RE F-111F LEVELS -0.8 DB ) DELTA N = -.8 DB																		
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
( 200	103.7	102.5	105.0	103.8	103.3	103.4	103.4	104.1	106.8	108.7	110.3	113.1	115.7	119.0	124.0	126.1	123.1	113.1	103.1
( 250	101.5	100.4	103.0	101.7	101.1	101.2	101.2	101.9	104.6	106.5	108.1	110.9	113.6	116.9	121.9	124.0	121.0	111.0	101.0
( 315	99.3	98.3	100.9	99.5	99.0	99.1	99.0	99.7	102.4	104.2	105.8	108.6	111.4	114.7	119.7	121.9	118.9	108.9	98.9
( 400	97.1	96.1	98.7	97.4	96.8	96.9	96.8	97.5	100.1	102.0	103.5	106.4	109.2	112.6	117.6	119.7	116.8	106.8	96.8
( 500	94.8	93.9	96.6	95.2	94.6	94.6	94.5	95.2	97.7	99.6	101.1	104.1	106.9	110.3	115.4	117.5	114.6	104.6	94.6
( 630	92.4	91.7	94.4	93.0	92.3	92.3	92.2	92.9	95.3	97.2	98.6	101.7	104.5	108.0	113.1	115.3	112.4	102.4	92.4
( 800	90.0	89.4	92.2	90.7	89.9	89.8	89.4	90.4	92.8	94.7	96.1	98.2	102.1	105.6	110.8	112.9	110.1	100.1	90.1
( 1000	87.4	87.1	89.9	88.3	87.6	87.5	87.3	88.0	90.2	92.2	93.5	96.6	99.6	103.1	108.4	111.6	107.8	97.8	87.8
( 1250	84.8	84.6	87.5	85.9	85.1	84.9	84.7	85.4	87.5	89.5	90.7	94.0	97.0	100.4	105.6	108.1	105.3	95.3	85.3
( 1600	82.1	82.1	85.1	83.4	82.6	82.3	82.1	82.7	84.7	86.7	87.9	91.2	94.3	97.7	103.2	105.5	102.7	92.7	82.7
( 2000	79.3	79.5	82.6	80.8	79.9	79.5	79.2	79.8	81.8	83.9	84.9	88.4	91.4	94.8	100.5	102.8	100.0	90.0	80.0
( 2500	76.2	76.7	79.9	78.0	77.0	76.6	76.2	76.8	78.7	80.8	81.7	85.3	88.4	91.6	97.5	99.8	97.0	87.0	77.0
( 3150	72.7	73.5	76.7	74.9	73.9	73.3	73.0	73.5	75.4	77.5	78.3	82.0	85.1	88.2	94.2	96.4	93.6	83.6	73.6
( 4000	68.8	70.0	73.1	71.4	70.5	69.8	69.5	70.0	71.7	73.9	74.6	78.3	81.4	84.4	90.5	92.7	89.8	79.8	69.8
( 5000	64.5	65.9	69.1	67.4	66.6	65.9	65.5	66.0	67.6	69.9	70.5	74.2	77.4	80.3	86.4	88.6	85.6	75.6	65.6
( 6300	59.8	61.6	64.8	63.1	62.3	61.5	61.2	61.6	63.2	65.5	66.0	69.8	73.0	75.9	82.1	84.2	81.2	71.2	61.2
( 8000	55.8	57.7	61.1	59.2	58.2	57.3	56.8	57.3	58.9	61.2	61.7	65.6	68.9	71.9	78.2	80.4	77.6	67.6	57.6
( 10000	51.7	53.6	57.1	55.0	53.7	52.6	52.1	52.6	54.3	56.6	57.0	61.0	64.5	67.7	74.1	76.2	73.6	63.6	53.6
( 12500	47.4	49.0	52.8	50.3	48.7	47.5	47.0	47.5	49.3	51.6	51.9	56.1	59.7	63.2	69.6	71.8	69.4	59.4	49.4
( 16000	42.7	44.0	47.9	45.1	43.1	42.0	41.4	41.9	43.9	46.2	46.3	50.7	54.5	58.4	64.7	66.9	64.7	54.7	44.7
( 20000	37.4	38.4	42.5	39.4	37.0	35.9	35.3	35.9	38.3	40.2	40.4	44.9	48.9	53.3	59.4	61.7	59.6	49.6	39.6
( 25000	31.6	32.2	36.5	33.1	30.3	29.4	28.8	29.5	31.6	33.8	34.0	38.6	43.0	47.9	53.6	56.0	54.0	44.0	34.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D9A)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-111D AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. TF30-P-9	DELTA N = -.8 DB																			
GROUND RUNUP	RE F-111F LEVELS -0.8 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-511-001																				
RUN 04																				
AIRCRAFT CODE 511																				
OPERATION CODE 01004																				
PROFILE VERSION A																				
14 APR 76																				
PAGE 64																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	106.2	104.1	107.5	103.8	103.3	103.4	103.4	104.1	106.8	108.7	110.3	113.1	115.7	119.0	124.5	126.1	123.1	113.1	103.1	
250	104.0	102.0	105.4	101.7	101.1	101.2	101.9	104.6	106.5	108.1	110.9	113.6	116.9	122.4	124.0	121.0	111.0	101.0		
315	101.8	99.5	103.3	99.5	99.0	99.1	99.0	99.7	102.4	104.2	105.8	108.6	111.4	114.7	120.3	121.9	118.9	108.9		
400	99.6	97.8	101.2	97.4	96.8	96.9	96.8	97.5	100.1	102.0	103.5	106.4	109.2	112.6	118.2	119.7	116.8	106.8		
500	97.3	95.6	99.0	95.2	94.6	94.6	94.5	95.2	97.7	99.6	101.1	104.1	106.9	110.3	116.0	117.5	114.6	104.6		
630	94.9	93.3	96.8	93.0	92.3	92.3	92.2	92.9	95.3	97.2	98.6	101.7	104.5	108.0	113.7	115.3	112.4	102.4		
800	92.5	91.0	94.6	90.7	89.9	89.9	89.8	90.4	92.8	94.7	96.1	99.2	102.1	105.6	111.4	112.9	110.1	100.1		
1300	90.0	88.7	92.3	88.3	87.6	87.5	87.3	88.0	90.2	92.2	93.5	96.6	99.6	103.1	109.0	110.6	107.8	97.8		
1250	87.4	86.2	90.0	85.9	85.1	84.9	84.7	85.4	87.5	89.5	90.7	94.0	97.0	100.4	106.4	108.1	105.3	95.3		
1600	84.7	83.7	87.5	83.4	82.6	82.3	82.1	82.7	84.7	86.7	87.9	91.2	94.3	97.7	103.8	105.5	102.7	92.7		
2000	81.8	81.1	85.0	80.8	79.9	79.5	79.2	79.8	81.8	83.9	84.9	88.4	91.4	94.8	101.1	102.8	100.0	90.0		
2500	78.8	78.3	82.3	78.0	77.0	76.6	76.2	76.8	78.7	80.8	81.7	85.3	88.4	91.6	98.1	98.8	97.0	87.0		
3150	75.3	75.1	79.1	74.9	73.9	73.3	73.0	73.5	75.4	77.5	78.3	82.0	85.1	88.2	94.8	96.4	93.6	83.6		
4000	70.9	71.3	75.1	71.4	70.5	69.8	69.5	70.0	71.7	73.9	74.6	78.3	81.4	84.4	91.0	92.7	89.8	79.8		
5000	66.0	66.9	70.6	67.4	66.6	65.9	65.5	66.0	67.6	69.9	70.5	74.2	77.4	80.3	86.8	88.6	85.6	75.6		
6300	60.8	62.2	65.8	63.1	62.3	61.5	61.2	61.6	63.2	65.5	66.0	69.8	73.0	75.9	82.3	84.2	81.2	71.2		
8000	56.3	58.1	61.6	59.2	58.2	57.3	56.8	57.3	58.9	61.2	61.7	65.6	68.9	71.9	78.3	80.4	77.6	67.6		
10000	51.7	53.6	57.1	55.0	53.7	52.6	52.1	52.6	54.3	56.6	57.0	61.0	64.5	67.7	74.1	76.2	73.6	63.6		
12500	47.4	49.0	52.8	50.3	48.7	47.5	47.0	47.5	49.3	51.6	51.9	56.1	59.7	63.2	69.6	71.8	69.4	59.4		
16000	42.7	44.0	47.9	45.1	43.1	42.0	41.4	41.9	43.9	46.2	46.3	50.7	54.5	58.4	64.7	66.9	64.7	54.7		
20000	37.4	38.4	42.5	39.4	37.0	35.9	35.3	35.9	38.0	40.2	40.4	44.9	48.9	53.3	59.4	61.7	59.6	49.6		
25000	31.6	32.2	36.5	33.1	30.3	29.4	28.8	29.5	31.6	33.8	34.0	38.6	43.0	47.9	53.6	56.0	54.0	44.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



) IDENTIFICATION:  
 ) OMEGA 6.2  
 ) TEST 74-511-001  
 ) RUN 04  
 ) AIRCRAFT CODE 511  
 ) OPERATION CODE 01004  
 ) PROFILE VERSION A  
 ) 14 APR 76  
 ) PAGE J4

) METEOROLOGY:  
 ) TEMP = 59 F  
 ) BAR PRESS = 29.92 IN HG  
 ) REL HUMID = 70 %  
 ) DELTA N = -.8 DB

) OPERATION:  
 ) MIL PMR, 95% RPM, F-111D  
 ) SINGLE ENGINE, TF30-P-9  
 ) ESTIMATED NOISE LEVELS  
 ) RE F-111F LEVELS -0.8 DB

) AIRCRAFT  
 ) F-111D  
 ) ENG. TF30-P-9  
 ) GROUND RUNUP

) DISTANCE = 250 FEET

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

	40	50	60	70	80	90	100	110	120	130	140
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

A N G L E I N D E G R E E S

NOISE LEVEL IN PNDB OR DBA

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 511																			
F-111D AIRCRAFT ( AFTERBURNER ZONE3, F-111D ) TEMP = 59 F ) OPERATION CODE 01002																			
ENG. TF30-P-9 ( SINGLE ENGINE, TF30-P-9 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 14 APR 76																			
( RE F-111F LEVELS -0.8 DB ) DELTA N = -.8 DR ) PAGE C5																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	89	88	90	90	91	92	92	93	94	95	95	104	110	116	119	117	110	100	90
63	91	90	93	94	93	94	96	96	97	99	99	101	113	120	123	118	112	102	92
80	92	93	96	96	95	97	96	99	99	102	103	109	115	122	125	118	115	105	95
100	93	96	98	97	97	97	99	100	102	104	105	112	116	125	127	123	119	109	99
125	95	98	99	98	98	98	99	99	102	105	107	112	117	121	126	123	119	109	99
160	98	100	99	99	98	99	100	101	102	106	107	115	121	121	125	124	121	111	101
200	97	98	97	99	97	98	99	100	101	105	107	113	120	123	122	122	119	109	99
250	92	94	98	99	97	99	98	99	100	105	106	110	117	123	120	118	116	106	96
315	93	97	100	99	95	98	97	98	99	102	105	110	115	121	119	117	117	107	97
400	93	95	99	99	97	97	97	98	99	102	104	110	114	118	117	115	114	104	94
500	93	95	98	100	97	96	97	98	101	101	106	111	114	118	116	115	112	102	92
630	92	97	98	100	97	96	97	99	102	103	107	112	113	117	115	113	109	99	89
800	89	95	97	99	99	97	99	99	102	103	107	112	114	116	114	113	106	96	86
1000	89	94	96	98	99	98	100	101	103	105	108	112	114	117	114	112	104	94	84
1250	89	93	95	97	98	97	99	102	103	105	108	111	113	116	114	110	102	92	82
1600	92	94	95	97	98	98	101	103	105	106	110	110	112	114	112	107	99	89	79
2000	97	93	93	94	94	95	98	100	102	104	107	111	113	115	112	107	99	89	79
2500	88	90	90	93	94	95	99	101	102	104	106	110	111	113	111	104	97	87	77
3150	86	88	90	93	94	94	99	101	102	103	106	110	111	113	110	103	96	86	76
4000	91	87	89	92	93	93	98	100	100	103	105	110	111	114	110	104	95	85	75
5000	86	85	87	90	91	91	95	98	99	101	103	107	109	111	109	102	93	83	73
6300	84	81	83	87	88	88	92	95	96	99	101	106	108	111	108	101	90	80	70
8000	80	77	79	83	84	84	88	92	93	95	98	105	109	111	107	101	88	78	68
10000	76	74	76	80	81	81	85	90	90	93	96	105	108	112	107	102	86	76	66
OVERALL	106	108	110	110	110	110	111	113	114	117	119	124	128	133	134	131	127	117	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:																		
	METEOROLOGY:																		
F-1110 AIRCRAFT	TEMP = 59 F																		
ENG. TF30-P-9	BAR PRESS = 29.92 IN HG																		
GROUND RUNUP	REL HUMID = 70 %																		
	DELTA N = -.8 DB																		
	ANGLE (DEGREES)																		
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	119.6	119.0	120.3	122.3	122.5	122.7	125.8	128.0	129.1	130.7	133.5	138.0	140.4	143.6	141.9	138.2	133.6	123.5	113.5
250	117.4	116.9	118.1	120.1	120.3	120.5	123.5	125.7	126.8	128.4	131.3	135.7	138.1	141.4	139.6	136.1	131.5	121.4	111.4
315	115.2	114.7	115.9	117.8	118.0	118.2	121.2	123.4	124.5	126.2	129.0	133.4	135.8	139.0	137.4	133.9	129.3	119.3	109.3
400	112.9	112.4	113.6	115.5	115.6	115.8	118.8	121.0	122.1	123.8	126.6	131.0	133.4	136.6	135.0	131.7	127.1	117.1	107.1
500	110.5	110.0	111.3	113.0	113.3	113.3	116.3	118.5	119.7	121.4	124.1	128.5	130.9	134.1	132.7	129.3	124.9	114.8	104.8
630	108.0	107.5	108.9	110.5	110.6	110.8	113.7	115.9	117.0	118.8	121.5	125.8	128.3	131.5	130.2	126.8	122.5	112.5	102.4
800	105.3	104.9	106.3	107.9	108.0	108.2	111.0	113.1	114.3	116.1	118.7	123.1	125.6	128.9	127.6	124.1	120.2	110.1	99.9
1000	102.6	102.2	103.6	105.2	105.3	105.4	108.1	110.1	111.3	113.2	116.0	120.2	122.8	126.1	124.8	121.3	117.6	107.6	97.3
1250	99.6	99.3	100.7	102.3	102.4	102.5	105.0	106.9	108.2	110.2	113.1	117.2	119.8	123.1	121.8	118.4	114.7	104.6	94.3
1600	96.4	96.1	97.7	99.2	99.3	99.4	101.8	103.6	105.0	107.0	109.9	114.0	116.6	119.9	118.6	115.5	111.5	101.4	91.2
2000	92.9	92.8	94.6	95.8	95.9	96.0	98.4	100.2	101.6	103.6	106.5	110.5	113.2	116.5	115.4	112.3	108.5	98.3	88.0
2500	89.1	89.3	90.9	92.2	92.2	92.3	94.6	96.4	97.9	99.8	102.9	106.7	109.3	112.7	111.6	108.8	104.7	94.5	84.1
3150	84.8	85.6	87.0	88.4	88.2	88.2	90.5	92.3	93.8	95.7	98.8	102.5	105.1	108.6	107.3	104.8	100.4	90.1	79.7
4000	80.1	81.3	82.7	84.1	83.7	83.7	86.0	87.8	89.3	91.2	94.3	97.8	100.4	104.1	102.7	100.3	95.8	85.4	75.0
5000	74.9	76.5	78.0	79.4	78.8	78.8	81.1	82.9	84.4	86.3	89.5	93.0	95.8	99.3	97.9	95.5	91.0	80.6	70.1
6300	69.1	71.5	73.0	74.4	73.8	73.4	75.7	77.5	79.1	81.0	84.2	88.0	90.8	94.3	92.8	90.5	86.0	75.6	65.1
8000	63.5	67.4	68.9	70.2	69.4	68.7	70.5	72.2	73.8	75.7	79.0	83.8	86.6	90.3	89.0	86.8	82.5	72.0	61.3
10000	58.9	62.9	64.5	65.8	64.6	63.9	65.5	66.8	68.9	70.8	74.2	79.3	82.2	86.2	85.0	82.9	78.7	68.1	57.2
12500	53.9	57.9	59.8	60.9	59.2	58.5	60.1	61.6	63.8	65.7	69.1	74.5	77.8	81.8	80.7	78.7	74.6	63.9	52.6
16000	48.5	52.3	54.6	55.7	53.7	53.1	54.5	55.9	58.1	60.2	63.6	69.2	72.9	77.1	76.2	74.2	70.1	59.3	47.7
20000	41.4	45.8	48.7	49.8	47.6	46.9	48.5	49.9	52.1	54.0	57.7	63.7	67.6	72.0	71.2	69.2	65.2	54.1	41.6
25000	34.2	37.9	41.7	42.9	39.9	39.4	40.9	42.5	45.2	47.1	51.2	57.6	61.9	66.4	66.5	63.8	59.8	48.1	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT	METEOROLOGY:																		
	TEMP = 59 F																		
F-1110 AIRCRAFT	BAR PRESS = 29.92 IN HG																		
	REL HUMID = 70 %																		
ENG. TF30-P-9	DELTA N = -.8 DB																		
	RE F-111F LEVELS -0.8 DB																		
GROUND RUNUP	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	122.0	119.0	120.3	122.3	122.5	122.7	125.8	128.0	129.1	130.7	133.5	138.0	140.4	144.1	141.9	138.2	133.6	123.5	113.5
250	119.8	116.9	118.1	120.1	120.3	120.5	123.5	125.7	126.8	128.4	131.3	135.7	138.1	141.9	139.6	136.1	131.5	121.4	111.4
315	117.6	114.7	115.9	117.8	118.0	118.2	121.2	123.4	124.5	126.2	129.0	133.4	135.8	139.5	137.4	133.9	129.3	119.3	109.3
400	115.3	112.4	113.6	115.5	115.6	115.8	118.8	121.0	122.1	123.8	126.6	131.0	133.4	137.1	135.0	131.7	127.1	117.1	107.1
500	112.9	110.0	111.3	113.0	113.1	113.3	116.3	118.5	119.7	121.4	124.1	128.5	130.9	134.6	132.7	129.3	124.9	114.8	104.8
630	110.4	107.5	108.9	110.5	110.6	110.8	113.7	115.9	117.0	118.8	121.5	125.8	128.3	132.0	130.2	126.8	122.5	112.5	102.4
800	107.7	104.9	106.3	107.9	108.0	108.2	111.0	113.1	114.3	116.1	118.7	123.1	125.6	129.4	127.6	124.1	120.2	110.1	99.9
1000	105.0	102.2	103.6	105.2	105.3	105.4	108.1	110.1	111.3	113.2	116.0	120.2	122.8	126.6	124.8	121.3	117.6	107.6	97.3
1250	102.0	99.3	100.7	102.3	102.4	102.5	105.0	106.9	108.2	110.2	113.1	117.2	119.8	123.6	121.8	118.4	114.7	104.6	94.3
1600	98.8	96.1	97.7	99.2	99.3	99.4	101.6	103.6	105.0	107.0	109.9	114.0	116.6	120.4	118.6	115.5	111.5	101.4	91.2
2030	95.3	92.8	94.6	95.8	95.9	96.0	98.4	100.2	101.6	103.6	106.5	110.5	113.2	117.0	115.4	112.3	108.5	98.3	88.0
2500	91.5	89.3	90.9	92.2	92.2	92.3	94.6	96.4	97.9	99.8	102.9	106.7	109.3	113.2	111.6	108.8	104.7	94.5	84.1
3150	87.2	85.6	87.0	88.4	88.2	88.2	90.5	92.3	93.8	95.7	98.8	102.5	105.1	109.1	107.3	104.8	100.4	90.1	79.7
4000	82.0	81.3	82.7	84.1	83.7	83.7	86.0	87.8	89.3	91.2	94.3	97.8	101.4	104.5	102.7	100.3	95.8	85.4	75.0
5000	76.3	76.5	78.0	79.4	78.8	78.8	81.1	82.9	84.4	86.3	89.5	93.0	95.8	99.6	97.9	95.5	91.0	80.6	70.1
6300	70.1	71.5	73.0	74.4	73.8	73.4	75.7	77.5	79.1	81.0	84.2	88.0	90.8	94.5	92.8	90.5	86.0	75.6	65.1
8000	64.0	67.4	68.9	70.2	69.4	68.7	70.5	72.2	73.8	75.7	79.0	83.8	86.6	90.4	89.0	86.8	82.5	72.0	61.3
10000	58.9	62.9	64.5	65.8	64.6	63.9	65.5	66.8	68.9	70.8	74.2	79.3	82.2	86.2	85.0	82.9	78.7	68.1	57.2
12500	53.9	57.9	59.8	60.9	59.2	58.5	60.1	61.6	63.8	65.7	69.1	74.5	77.8	81.8	80.7	78.7	74.6	63.9	52.6
16000	48.5	52.3	54.6	55.7	53.7	53.1	54.5	55.9	58.1	60.2	63.6	69.2	72.9	77.1	76.2	74.2	70.1	59.3	47.7
20000	41.4	45.8	48.7	49.8	47.6	46.9	48.5	49.9	52.1	54.0	57.7	63.7	67.6	72.0	71.2	69.2	65.2	54.1	41.6
25000	34.2	37.9	41.7	42.9	39.9	39.4	40.9	42.5	45.2	47.1	51.2	57.6	61.9	66.4	66.5	63.8	59.8	48.1	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	104.8	105.1	107.7	109.4	109.4	109.2	111.9	114.0	115.3	117.0	120.1	124.0	126.1	129.1	127.1	124.0	119.8	109.8	99.8
250	102.7	104.0	105.6	107.2	107.3	107.0	109.7	111.8	113.1	114.8	117.9	121.8	123.9	126.9	124.9	121.9	117.8	107.8	97.8
315	100.5	101.8	103.5	105.1	105.1	104.8	107.5	109.5	110.8	112.6	115.7	119.5	121.7	124.7	122.8	119.8	115.7	105.7	95.7
400	98.2	99.6	101.3	102.9	102.9	102.6	105.2	107.2	108.6	110.3	113.4	117.2	119.4	122.5	120.5	117.6	113.6	103.6	93.6
500	95.9	97.4	99.1	100.7	100.6	100.3	102.9	104.9	106.2	108.0	111.1	114.9	117.1	120.2	118.3	115.4	111.4	101.4	91.4
630	93.5	95.1	96.9	98.4	98.3	98.0	100.5	102.5	103.8	105.6	108.7	112.5	114.7	117.8	115.9	113.1	109.1	99.1	89.1
800	91.1	92.8	94.6	96.1	95.9	95.6	98.0	99.9	101.4	103.1	106.2	110.0	112.3	115.4	113.5	110.8	106.8	96.8	86.8
1000	88.5	90.4	92.2	93.6	93.4	93.1	95.5	97.3	98.8	100.5	103.7	107.5	109.7	112.9	111.0	108.4	104.4	94.4	84.4
1250	85.8	87.9	89.7	91.1	90.9	90.5	92.8	94.6	96.1	97.8	101.1	104.9	107.1	110.2	108.3	105.8	101.8	91.8	81.8
1600	83.0	85.2	87.1	88.6	88.2	87.9	90.0	91.8	93.3	95.0	98.3	102.1	104.4	107.5	105.6	103.1	99.1	89.1	79.1
2000	80.1	82.5	84.4	85.9	85.5	84.9	87.1	88.8	90.4	92.1	95.4	99.3	101.5	104.7	102.7	100.4	96.2	86.2	76.2
2500	76.8	79.6	81.5	82.9	82.5	81.9	84.0	85.7	87.3	88.9	92.4	96.3	98.5	101.6	99.5	97.3	93.0	83.0	73.0
3150	73.3	75.4	78.2	79.8	79.3	78.6	80.6	82.3	84.0	85.6	89.1	93.0	95.1	98.3	96.1	94.0	89.4	79.4	69.4
4000	69.4	72.8	74.6	76.2	75.8	75.0	77.0	78.6	80.4	81.9	85.5	89.4	91.5	94.6	92.3	90.3	85.4	75.4	65.4
5000	65.1	68.7	70.6	72.2	71.8	70.9	72.9	74.5	76.3	77.8	81.4	85.4	87.5	90.5	88.2	86.2	81.1	71.1	61.1
6300	60.4	64.4	66.2	67.9	67.5	66.6	68.5	70.0	71.9	73.4	77.0	81.1	83.1	86.1	83.8	81.9	76.6	66.6	56.6
8000	56.1	60.3	62.3	63.9	63.3	62.3	64.1	65.5	67.4	69.0	72.6	76.9	79.0	82.0	79.8	78.0	73.1	63.1	53.1
10000	51.6	56.0	58.0	59.5	58.7	57.6	59.3	60.7	62.7	64.2	67.9	72.3	74.5	77.7	75.5	73.9	69.3	59.3	49.3
12500	46.9	51.2	53.3	54.8	53.6	52.5	54.1	55.4	57.5	59.0	62.7	67.4	69.7	73.0	70.9	69.4	65.2	55.2	45.2
16000	41.8	46.0	48.2	49.6	48.1	47.0	48.5	49.7	51.9	53.3	57.1	62.0	64.4	68.0	66.1	64.6	60.8	50.8	40.8
20000	36.5	40.3	42.6	43.9	42.1	41.1	42.4	43.7	45.8	47.3	51.0	56.1	58.8	62.6	61.1	59.5	56.1	46.1	36.1
25000	30.7	34.2	36.5	37.6	35.6	34.8	36.0	37.2	39.3	40.9	44.4	49.3	53.0	56.9	56.1	54.2	51.1	41.1	31.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 53 F																			
F-111D AIRCRAFT	BAR PRESS = 29.92 IN HG																			
ENG. TF30-P-9	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = -0.8 DB																			
	ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
(FEET)																				
200	107.2	106.1	107.7	109.4	109.4	109.2	111.9	114.0	115.3	117.0	120.1	124.0	126.1	129.6	127.1	124.0	119.8	109.8	99.8	
250	105.1	104.0	105.6	107.2	107.3	107.0	109.7	111.8	113.1	114.8	117.9	121.8	123.9	127.4	124.9	121.9	117.8	107.8	97.8	
315	102.9	101.8	103.5	105.1	105.1	104.8	107.5	109.5	110.8	112.6	115.7	119.5	121.7	125.2	122.8	119.8	115.7	105.7	95.7	
400	100.6	99.6	101.3	102.9	102.9	102.6	105.2	107.2	108.6	110.3	113.4	117.2	119.4	123.0	120.5	117.6	113.6	103.6	93.6	
500	98.3	97.4	99.1	100.7	100.6	100.3	102.9	104.9	106.2	108.0	111.1	114.9	117.1	120.7	118.3	115.4	111.4	101.4	91.4	
630	95.9	95.1	96.9	98.4	98.3	98.0	100.5	102.5	103.8	105.6	108.7	112.5	114.7	118.3	115.9	113.1	109.1	99.1	89.1	
800	93.5	92.8	94.6	96.1	95.9	95.6	98.0	100.5	101.4	103.1	106.2	110.0	112.3	115.9	113.5	110.8	106.8	96.8	86.8	
1000	90.9	90.4	92.2	93.6	93.4	93.1	95.5	97.3	98.8	100.5	103.7	107.5	109.7	113.4	111.0	108.4	104.4	94.4	84.4	
1250	88.2	87.9	89.7	91.1	90.9	90.5	92.8	94.6	96.1	97.8	101.1	104.9	107.1	110.7	108.3	105.8	101.8	91.8	81.8	
1600	85.4	85.2	87.1	88.6	88.2	87.8	90.0	91.8	93.3	95.0	98.3	102.1	104.4	108.0	105.6	103.1	99.1	89.1	79.1	
2000	82.5	82.9	84.4	85.9	85.5	84.9	87.1	88.8	90.4	92.1	95.4	99.3	101.5	105.2	102.7	100.4	96.2	86.2	76.2	
2500	79.2	79.6	81.5	82.9	82.5	81.9	84.0	85.7	87.3	88.9	92.4	96.3	98.5	102.1	99.5	97.3	93.0	83.0	73.0	
3150	75.7	76.4	78.2	79.8	79.3	78.6	80.6	82.3	84.0	85.6	89.1	93.0	95.1	98.9	96.1	94.0	89.4	79.4	69.4	
4000	71.4	72.8	74.6	76.2	75.8	75.0	77.0	78.6	80.4	81.9	85.5	89.4	91.5	95.0	92.3	90.3	85.4	75.4	65.4	
5000	66.5	68.7	70.6	72.2	71.8	70.9	72.9	74.5	76.3	77.8	81.4	85.4	87.5	90.8	88.2	86.2	81.1	71.1	61.1	
6300	61.4	64.4	66.2	67.9	67.5	66.6	68.5	70.0	71.9	73.4	77.0	81.1	83.1	86.3	83.8	81.9	76.6	66.6	56.6	
8000	56.6	60.3	62.3	63.9	63.3	62.3	64.1	65.5	67.4	69.0	72.6	76.3	79.0	82.1	79.3	78.0	73.1	63.1	53.1	
10000	51.6	56.0	58.0	59.5	58.7	57.6	59.3	60.7	62.7	64.2	67.9	72.3	74.5	77.7	75.5	73.9	69.3	59.3	49.3	
12500	46.9	51.2	53.3	54.8	53.6	52.5	54.1	55.4	57.5	59.0	62.7	67.4	69.7	73.0	70.3	69.4	65.2	55.2	45.2	
16000	41.8	46.0	48.2	49.6	48.1	47.0	48.5	49.7	51.9	53.3	57.1	62.0	64.4	68.0	66.1	64.6	60.8	50.8	40.8	
20000	36.5	40.3	42.6	43.9	42.1	41.1	42.4	43.7	45.8	47.3	51.0	56.1	58.8	62.6	61.1	59.5	56.1	46.1	36.1	
25000	30.7	34.2	36.5	37.6	35.6	34.8	36.0	37.2	39.3	40.9	44.4	49.8	53.0	56.9	56.1	54.2	51.1	41.1	31.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( ( DISTANCE = 250 FEET  
 ( ( NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 511  
 ( F-111D AIRCRAFT ( AFTERBURNER ZONE3, F-111D ) TEMP = 59 F ) OPERATION CODE 01002  
 ( ENG. TF30-P-9 ( SINGLE ENGINE, TF30-P-9 ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A  
 ( GROUND RUNUP ( ESTIMATED NOISE LEVELS ) REL HUMID = 70 % ) 14 APR 76  
 ( ( RE F-111F LEVELS -0.8 DB ) DELTA N = -.8 DB ) PAGE J5  
 ( ( P=PNLT A=AL T=A.L.T

	50	60	70	80	90	100	110	120	130	140	150
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.





	50	60	70	80	90	100	110	120	MEAN	SD
F	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	96.7	2.3
R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	94.9	3.8
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	92.7	3.2
Q	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	104.4	2.7
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	111.2	2.6
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	113.2	1.2
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	109.8	2.9
C	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	107.5	3.1
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	112.1	1.1
I	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	107.8	2.4
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	109.5	1.5
H	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	108.4	2.4
Z	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	106.5	2.4
1000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	104.9	2.0
1250	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	104.4	2.5
1600	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	104.2	2.4
2000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	103.8	2.3
2500	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	101.9	2.1
3150	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	101.0	2.1
4000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	99.7	2.2
5000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.8	1.9
6300	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.1	2.4
8000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.5	2.4
10000	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	97.8	3.2

F-111F AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 129.8 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 129.0 PNDB

NO. OF RECORDS = 8 IDENT: 6.6-079-101-280176 ALT = 116.8 DBA

AL = 116.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																								
AIRCRAFT:		A/C CODE: 079																								
( OPERATION: )		OPS CODE: 101																								
( AFTERBURNER POWER )		PROFILE VER: A																								
( 97 % RPM )		28 JAN 76																								
( )		PAGE H1																								
( AIRSPEED = 350 KNOTS )		DELTA N = 0.0 DB																								
( )		METEOROLOGY:																								
( )		TEMP = 59 F																								
( )		REL HUMID = 70 %																								
( )		METEOROLOGY:																								
( )		DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	111	109	107	119	125	127	124	122	124	122	124	123	122	120	120	120	120	121	120	120	121	120	123	129	138	
250	109	107	105	117	123	125	122	120	124	120	122	121	120	118	118	118	118	119	117	118	118	118	118	120	126	134
315	107	105	103	115	121	123	120	118	122	118	120	119	117	116	116	116	116	116	115	115	115	116	115	117	122	130
400	105	103	101	113	119	121	118	116	120	116	118	117	115	114	114	114	114	114	113	113	113	113	112	114	119	125
500	103	101	99	110	117	119	116	114	118	114	116	115	113	112	112	112	112	112	110	110	110	110	109	111	114	120
630	101	99	97	108	115	117	114	112	116	112	114	113	111	109	109	109	109	108	107	107	107	106	107	110	114	
800	99	97	95	106	113	115	112	110	114	110	112	111	109	107	107	107	107	105	105	105	105	104	102	104	106	
1000	97	95	93	104	111	113	110	107	112	108	110	108	106	105	104	104	104	104	102	102	101	100	98	97	98	
1250	95	93	91	102	109	111	108	105	110	106	107	106	104	102	102	102	101	101	99	97	95	93	91	90	88	
1600	93	91	89	100	107	109	106	103	108	103	105	104	102	100	99	99	98	98	95	93	90	88	84	81	75	
2000	91	89	87	98	105	107	103	101	106	101	103	101	99	97	96	95	94	91	89	85	81	76	70	60		
2500	89	87	85	96	103	105	101	99	103	99	100	99	96	94	93	92	90	87	83	78	74	66	56	41		
3150	87	85	82	94	101	103	99	97	101	96	98	96	93	91	90	88	86	82	77	70	65	55	40	18		
4000	84	83	80	92	99	100	97	94	98	94	95	93	90	88	86	84	81	76	70	61	54	40	20			
5000	82	80	78	90	96	98	94	92	96	91	92	90	87	84	82	79	75	69	61	50	41	23				
6300	80	78	76	88	94	96	92	89	93	88	89	87	83	80	77	73	69	61	51	36	25	1				
8000	78	76	74	85	92	93	89	86	90	85	86	83	79	75	71	67	61	51	38	19	6					
10000	76	74	72	83	89	91	87	84	87	82	82	79	74	69	65	59	51	39	23							
12500	74	72	69	80	87	88	84	81	84	78	78	74	68	63	57	49	40	25	4							
16000	72	69	67	78	84	85	81	77	80	74	73	68	62	55	48	38	26	7								
20000	69	67	64	75	81	82	77	73	76	69	67	62	54	46	37	25	9									
25000	67	64	62	72	78	79	73	69	71	63	61	54	45	35	24	8										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-111F	137.5	138.3	151.3	152.0	133.1	134.2	137.7	OMEGA	6.6
	134.5	135.2	148.4	149.1	131.1	132.1	135.8		
	131.2	132.0	145.3	146.0	128.8	129.9	133.7		
	128.0	128.7	142.0	142.7	126.6	127.6	131.4		
	124.7	125.5	138.4	139.2	124.3	125.4	128.8		
	121.7	122.4	135.1	135.9	122.3	123.3	126.5		
	118.8	119.5	132.2	132.9	120.4	121.5	124.6		
	116.1	116.8	129.0	129.8	118.7	119.7	122.4		
	113.4	114.2	126.0	126.7	117.0	118.1	120.4		
	110.8	111.5	123.1	123.8	115.4	116.4	118.5		
	108.1	108.8	120.1	120.8	113.7	114.8	116.5		
	105.3	106.1	117.1	117.8	111.9	113.0	114.5		
	102.5	103.2	114.0	114.8	110.1	111.2	112.4		
	99.6	100.2	110.9	111.5	108.2	109.0	110.1		
	96.5	97.0	107.7	108.2	106.1	106.8	107.7		
	93.4	93.7	104.5	104.8	104.0	104.4	105.2		
	90.1	90.3	101.1	101.2	101.7	101.9	102.6		
	86.7	86.7	97.5	97.5	99.3	99.3	99.8		
	83.1	83.1	93.9	93.9	96.7	96.7	97.2		
	79.2	79.2	90.3	90.3	93.8	93.8	94.6		
	75.2	75.2	86.4	86.4	90.8	90.8	91.8		
	71.0	71.0	82.3	82.3	87.6	87.6	88.6		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	80	90	100	110	120	130	140	150	160
200	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

F-111F AFTERBURNER POWER  
 97% RPM  
 AIRSPEED = 350 KNOTS  
 TEMP = 59 F REL HUMID = 70%  
 DELTA N = 0.0 DB  
 NO. OF RECORDS: 8  
 IDENT: 6.6-079-101-280176-A

S  
 L  
 A  
 N  
 T  
 D  
 I  
 S  
 T  
 A  
 N  
 C  
 E  
 I  
 N  
 F  
 E  
 T

AIR TO GROUND  
 P = PNLT  
 \* = PNL  
 + = ALT  
 A = AL



TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																									
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																									
AIRCRAFT:		METEOROLOGY:																									
( OPERATION:		A/C CODE: 079																									
( AFTERSURNER POWER		TEMP = 59 F																									
( 97 % RPM		REL HUMID = 70 %																									
( AIRSPEED = 350 KNOTS		DELTA N = 0.0 DB																									
(		PAGE L1																									
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																									
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	106	104	102	114	120	122	119	117	121	117	119	118	117	115	115	115	115	116	115	115	116	115	116	115	118	124	133
250	104	102	100	112	118	120	117	115	119	115	117	116	115	113	113	113	113	114	112	113	113	113	113	113	115	121	129
315	102	100	98	110	116	118	115	113	117	113	115	114	112	111	111	111	111	111	110	110	110	110	110	110	112	117	125
400	100	98	96	108	114	116	113	111	115	111	113	112	110	109	109	109	109	109	108	108	108	108	108	107	109	114	120
500	98	96	94	105	112	114	110	109	113	109	111	110	108	107	107	107	107	107	105	105	105	105	105	104	106	109	115
630	96	94	92	103	110	111	108	106	111	107	109	108	106	105	104	104	104	104	103	102	102	102	101	102	105	109	
800	94	92	90	101	107	108	105	103	109	105	107	106	104	102	102	102	102	102	100	99	99	99	97	97	99	101	
1000	92	90	88	98	104	105	102	100	107	103	105	103	101	100	99	99	99	99	97	96	95	95	93	92	92	93	
1250	90	88	85	95	101	102	99	97	104	101	102	101	99	97	97	97	96	96	94	92	90	88	86	85	83		
1600	88	85	81	92	97	99	95	93	101	98	100	99	97	95	94	94	94	93	90	88	85	83	79	76	70		
2000	85	81	78	88	93	95	91	90	97	96	98	96	94	92	91	90	89	86	84	80	76	71	65	55			
2500	81	77	73	83	89	91	87	85	93	92	95	94	91	89	88	87	85	82	78	73	69	61	51	36			
3150	77	73	69	79	84	86	82	80	89	88	92	91	88	86	85	83	81	77	72	65	60	50	35	13			
4000	73	68	63	73	79	80	76	74	83	83	88	87	85	83	81	79	76	71	65	56	45	35	15				
5000	67	63	59	68	74	75	71	69	77	78	83	83	82	79	77	74	70	64	56	45	36	18					
6300	62	58	54	64	69	70	66	64	71	72	79	79	77	75	72	68	64	56	46	31	20						
8000	60	56	52	61	67	68	64	61	68	69	76	75	73	70	66	62	56	46	33	14	1						
10000	58	54	50	59	64	65	61	59	65	66	72	71	68	64	60	54	46	34	18								
12500	56	52	47	56	62	63	58	56	62	62	68	66	62	58	52	44	35	20									
16000	54	49	45	54	59	60	55	52	58	58	63	60	56	50	43	33	21	2									
20000	51	47	42	51	56	57	52	48	54	53	57	54	48	41	32	20	4										
25000	49	44	40	48	53	53	48	44	49	47	51	46	39	30	19	3											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:	
(	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)		
(	132.5	133.4	146.3	147.2	128.1	129.4	132.9	) OMEGA 6.6	
(	129.5	130.4	143.4	144.3	126.1	127.3	130.9		
(	126.2	127.1	140.3	141.2	123.8	125.1	128.8		
(	123.0	123.9	136.9	137.8	121.6	122.8	126.5		
(	119.7	120.6	133.4	134.3	119.3	120.6	124.0		
(	116.6	117.5	130.0	130.9	117.2	118.4	121.6		
(	113.7	114.6	127.0	127.9	115.3	116.5	119.5	) A/C CODE: 079	
(	110.9	111.8	123.7	124.6	113.5	114.7	117.3	) OPS CODE: 101	
(	108.1	109.0	120.3	121.2	111.7	113.0	114.9	) PROFILE VER: A	
(	105.3	106.2	116.8	117.7	109.9	111.1	112.4	) 28 JAN 76	
(	102.4	103.3	113.3	114.2	108.0	109.2	109.9	) PAGE M1	
(	99.2	100.1	109.6	110.5	105.8	107.1	107.2		
(	95.8	96.7	105.4	106.3	103.4	104.6	104.0		
(	91.9	92.7	100.8	101.5	100.5	101.5	100.1		
(	87.6	88.1	95.8	96.3	97.2	97.9	95.8		
(	82.9	83.3	90.5	90.9	93.5	94.0	91.4		
(	78.7	78.9	86.3	86.5	90.3	90.6	87.9		
(	74.2	74.2	81.9	81.9	86.8	86.8	84.2		
(	69.3	69.3	77.1	77.1	82.9	82.9	80.4		
(	63.9	63.9	71.9	71.9	78.5	78.5	76.2		
(	58.1	58.1	66.2	66.2	73.7	73.7	71.5		
(	51.8	51.8	59.7	59.7	68.4	68.4	66.1		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200 ( F-111F AFTERBURNER POWER X-----\*P )  
 ( . 97 % RPM . . . . . A+ . . . . . \*P )  
 250 ( AIRSPEED = 350 KNOTS )  
 ( TEMP = 59 F REL HUMID = 70 % . . . . . A+ . . . . . \*P )  
 315 ( DELTA N = 0.0 DB )  
 ( NO. OF RECORDS: 8 . . . . . A+ . . . . . \*P )  
 400 ( IDENT: 6.6-079-101-280176-A )  
 500 ( . . . . . A+ . . . . . \*P )  
 S 630 ( . . . . . A+ . . . . . \*P )  
 L A 800 ( . . . . . A+ . . . . . \*P )  
 N T 1000 ( . . . . . A+ . . . . . \*P )  
 D 1250 ( . . . . . A+ . . . . . \*P )  
 I S 1600 ( . . . . . A+ . . . . . \*P )  
 T A 2000 ( . . . . . A+ . . . . . \*P )  
 N C 2500 ( . . . . . A+ . . . . . \*P )  
 E 3150 ( . . . . . A+ . . . . . \*P )  
 I N 4000 ( . . . . . A+ . . . . . \*P )  
 F 5000 ( . . . . . X . . . . . )  
 E 6300 ( . . . . . X . . . . . )  
 T 8000 ( . . . . . X . . . . . )  
 19000 ( . . . . . X . . . . . )  
 12500 (X . . . . . X . . . . . )  
 16000 ( . . . . . X . . . . . )  
 20000 ( . . . . . X . . . . . )  
 25000 ( . . . . . X . . . . . )

70      80      90      100      110      120      130      140      150  
 NOISE LEVEL IN DB





	30	40	50	60	70	80	90	100	
F R E Q U E N C Y									MEAN
50	.	.	.	.	.	.	.	.	77.5
63	.	.	.	.	.	X	.	.	5.1
80	.	.	.	.	X	.	.	.	4.7
100	.	.	.	.	.	.	X	.	2.7
125	.	.	.	.	.	.	.	.	3.2
160	.	.	.	.	.	.	.	.	2.4
200	.	.	.	.	.	.	X	.	4.2
250	.	.	.	.	.	.	.	.	6.9
315	.	.	.	.	.	.	.	.	1.9
400	.	.	.	.	.	.	X	.	3.5
500	.	.	.	.	.	.	.	.	2.4
630	.	.	.	.	.	.	.	.	2.8
800	.	.	.	.	.	.	.	.	2.4
1000	.	.	.	.	.	.	.	.	.7
1250	.	.	.	.	.	.	.	.	1.3
1600	.	.	.	.	.	.	.	.	1.2
2000	.	.	.	.	.	.	.	.	1.5
2500	.	.	.	.	.	.	.	.	1.8
3150	.	.	.	.	.	.	.	.	2.5
4000	.	.	.	.	.	.	.	.	2.5
5000	.	.	.	.	.	.	.	.	2.2
6300	.	.	.	.	.	.	.	.	2.3
8000	.	.	.	.	.	.	.	.	2.3
16000	.	.	.	.	.	.	.	.	2.6
	.	.	.	.	.	.	.	.	2.3
	.	.	.	.	.	.	.	.	

F-111F TAKEOFF POWER 97 % RPM  
 AIRSPEED = 300 KNOTS TEMP = 59 F  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %  
 NO. OF RECORDS = 8 IDENT: 6.6-079-103-280176  
 PNLT = 117.3 PNDB  
 PNL = 116.8 PNDB  
 ALT = 104.9 DBA  
 AL = 104.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)\*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: ( OPERATION: ) METEOROLOGY: ) OMEGA 6.6  
 ( TAKEOFF POWER ) ) TEMP = 59 F ) A/C CODE: 079  
 ( 97 % RPM ) ) REL HUMID = 70 % ) OPS CODE: 103  
 ( ) ) ) PROFILE VER: A )  
 ( AIRSPEED = 300 KNOTS ) DELTA N = 0.0 DB ) 28 JAN 76 )  
 ( ) ) ) PAGE H2 )

SLANT DISTANCE (FEET)

FREQUENCY BAND NUMBER

SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	92	91	101	109	112	108	110	112	111	110	110	111	110	110	110	110	110	110	109	108	105	105	106	109
250	90	89	99	107	110	106	108	110	109	108	108	108	108	108	108	108	108	108	107	106	103	103	103	105
315	88	87	87	97	105	108	104	106	108	107	106	107	106	106	106	106	106	106	105	104	103	100	100	101
400	86	85	85	95	103	106	102	104	106	105	103	105	104	104	103	103	104	103	102	101	97	96	96	97
500	84	83	83	93	101	104	100	102	104	103	101	102	102	102	101	101	101	101	99	98	94	92	92	92
630	82	81	81	91	99	102	98	100	102	101	99	100	99	99	99	99	99	99	98	96	95	91	89	86
800	79	79	79	89	97	100	96	98	99	99	97	98	97	97	97	96	96	95	93	91	87	84	82	79
1000	77	77	77	86	95	98	94	96	97	97	95	96	95	95	94	94	94	92	90	87	83	79	75	70
1250	75	75	75	84	93	95	92	94	95	94	93	94	93	92	92	91	91	89	87	83	78	73	68	60
1600	73	73	73	82	91	93	90	91	93	92	90	91	90	90	89	88	88	86	82	78	73	67	59	48
2000	71	71	71	80	89	91	88	89	91	90	88	89	88	87	86	85	84	82	78	73	67	59	48	33
2500	69	69	69	78	87	89	86	87	89	88	86	86	85	84	83	82	80	77	73	66	59	49	35	15
3150	67	67	67	76	84	87	83	85	86	85	83	84	82	81	80	78	76	72	67	59	51	38	20	0
4000	65	65	65	74	82	85	81	82	84	83	80	81	79	78	76	74	71	67	60	49	40	24	7	0
5000	63	63	63	72	80	83	79	80	81	80	78	78	76	74	72	69	66	60	51	38	28	7	0	0
6300	61	61	60	70	78	80	76	77	79	77	75	74	72	70	67	63	59	52	41	25	12	0	0	0
8000	59	59	58	67	75	78	74	75	76	74	71	71	68	65	61	57	51	42	29	9	0	0	0	0
10000	57	56	56	65	73	75	71	72	73	71	67	66	63	60	55	49	42	31	14	0	0	0	0	0
12500	55	54	54	63	71	73	68	69	69	67	63	62	58	53	48	40	31	17	0	0	0	0	0	0
16000	52	52	51	60	68	70	65	66	66	63	59	56	51	46	39	29	18	0	0	0	0	0	0	0
20000	50	49	49	57	65	67	62	62	62	58	53	50	44	37	28	16	0	0	0	0	0	0	0	0
25000	48	47	46	55	62	63	58	58	57	53	47	43	35	26	15	0	0	0	0	0	0	0	0	0

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*											
AIR-TO-GROUND PROPAGATION											
IDENTIFICATION											
OMEGA 5.6											
A/C CODE:											
OPS CODE:											
PROFILE VELOCITY:											
28 JAN 76											
PAGE 12											
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
DELTA N = 0.0 DB											
AIRSPEED = 300 KNOTS											
OPERATION:											
TAKEOFF POWER = 97 % RPM											
AL											
ALT**											
PNL											
PNLT**											
SEL											
SELT**											
EPNL**											
(EPNDB)											
200	121.0	121.6	134.6	135.1	121.1	122.2	124.5				
250	118.8	119.3	132.3	132.8	119.8	121.0	123.2				
315	116.5	117.0	129.9	130.5	118.5	119.7	121.9				
400	114.2	114.7	127.5	128.0	117.2	118.3	120.5				
500	111.8	112.3	125.0	125.5	115.8	117.0	119.0				
630	109.4	109.9	122.4	122.9	114.4	115.5	117.3				
800	106.9	107.4	119.7	120.2	112.9	114.1	115.6				
1000	104.3	104.9	116.8	117.3	111.4	112.5	113.7				
1250	101.7	102.2	113.8	114.3	109.8	110.9	111.7				
1600	99.0	99.5	110.6	111.1	108.1	109.2	109.5				
2000	96.2	96.7	107.3	107.8	106.3	107.4	107.3				
2500	93.3	93.8	103.8	104.4	104.3	105.5	104.8				
3150	90.3	90.8	100.5	101.1	102.3	103.5	102.5				
4000	87.2	87.6	97.3	97.7	100.2	101.1	100.0				
5000	83.9	84.2	94.0	94.3	98.0	98.6	97.5				
6300	80.6	80.8	90.5	90.7	95.6	96.1	94.8				
8000	77.0	77.1	86.9	87.0	93.1	93.3	92.0				
10000	73.4	73.4	83.1	83.1	90.4	90.4	89.0				
12500	69.5	69.5	79.1	79.1	87.6	87.6	86.0				
16000	65.5	65.5	74.8	74.8	84.6	84.6	82.7				
20000	61.3	61.3	70.5	70.5	81.3	81.3	79.3				
25000	56.8	56.8	65.9	65.9	77.8	77.8	75.7				

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	60	70	80	90	100	110	120	130	140
200	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
315	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
400	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
630	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
800	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1250	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
1600	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
2000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
2500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
3150	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
4000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
5000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
6300	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
8000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(
	(	(	(	(	(	(	(	(	(

```

200 (-----ST-E-----)
    ( F-111F TAKEOFF POWER )
250 ( . 97 % RPM )
    ( AIRSPEED = 300 KNOTS )
315 ( . TEMP = 59 F REL HUMID = 70 % )
    ( DELTA N = 0.0 DB )
400 ( . NO. OF RECORDS: 8 )
    ( IDENT: 6.6-079-103-260176-A )
500 ( . . . . . )
    ( . . . . . )
630 ( . . . . . )
    ( . . . . . )
800 ( . . . . . )
    ( . . . . . )
1000 ( . . . . . )
    ( . . . . . )
1250 ( . . . . . )
    ( . . . . . )
1600 ( . . . . . )
    ( . . . . . )
2000 ( . . . . . )
    ( . . . . . )
2500 ( . . . . . )
    ( . . . . . )
3150 ( . . . . . )
    ( . . . . . )
4000 ( . . . . . )
    ( . . . . . )
5000 ( . . . . . )
    ( . . . . . )
6300 ( . . . . . )
    ( . . . . . )
8000 ( . . . . . )
    ( . . . . . )
10000 ( . . . . . )
    ( . . . . . )
12500 ( . . . . . )
    ( . . . . . )
16000 ( . . . . . )
    ( . . . . . )
20000 ( . . . . . )
    ( . . . . . )
25000 (-----E-X-----)

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50 60 70 80 90 100 110 120 130
NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		A/G CODE: 079																							
( TAKEOFF POWER		OPS CODE: 103																							
( 97 % RPM		REL HUMID = 70 %																							
( F-111F		PROFILE VER: A																							
( AIRSPEED = 300 KNOTS		DELTA N = 0.0 DB																							
( )		PAGE L2																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
(	200	87	86	86	96	104	107	103	105	107	106	105	106	105	105	105	105	105	105	104	103	100	100	101	104
(	250	85	84	84	94	102	105	101	103	105	104	103	104	103	103	103	103	103	103	102	101	98	97	98	100
(	315	83	82	82	92	100	103	99	101	103	102	101	102	101	101	101	101	101	100	99	98	95	94	95	96
(	400	81	80	80	90	98	101	97	99	101	100	98	100	99	99	98	98	99	98	97	96	92	91	91	92
(	500	79	78	78	88	96	98	95	97	99	98	96	97	97	97	96	96	96	96	94	93	89	87	87	87
(	630	77	76	76	86	93	95	92	94	97	96	94	95	94	94	94	94	94	93	91	90	86	84	82	81
(	800	74	74	74	83	91	93	89	91	94	94	92	93	92	92	92	91	91	90	88	86	82	79	77	74
(	1000	72	72	72	80	88	90	86	88	92	92	90	91	90	90	89	89	89	87	85	82	78	74	70	65
(	1250	70	70	69	77	84	87	83	85	89	89	88	89	88	87	87	86	86	84	82	78	73	68	63	55
(	1600	68	67	66	74	81	83	80	82	86	87	85	86	85	85	84	83	83	81	77	73	68	62	54	43
(	2000	65	63	62	70	77	79	76	78	82	85	83	84	83	82	81	80	79	77	73	68	62	54	43	28
(	2500	62	60	58	66	73	75	71	73	78	81	81	81	80	79	78	77	75	72	68	61	54	44	30	10
(	3150	58	55	53	61	68	70	66	68	74	77	77	79	77	76	75	73	71	67	62	54	46	33	15	
(	4000	53	50	48	55	62	64	61	63	69	72	73	75	74	73	71	69	66	62	55	44	35	19		
(	5000	48	45	43	50	58	59	56	57	63	67	69	71	70	69	67	64	61	55	46	33	23	2		
(	6300	43	41	38	46	53	55	51	52	57	61	65	66	66	65	62	58	54	47	36	20	7			
(	8000	41	39	36	43	50	52	48	50	54	58	61	63	62	60	56	52	46	37	24	4				
(	10000	39	36	34	41	48	50	46	47	51	55	57	58	57	55	50	44	37	26	9					
(	12500	37	34	32	39	46	47	43	44	47	51	53	54	52	48	43	35	26	12						
(	16000	34	32	29	36	43	44	40	41	44	47	49	48	45	41	34	24	13							
(	20000	32	29	27	33	40	41	36	37	40	42	43	42	38	32	23	11								
(	25000	30	27	24	31	37	38	33	33	35	37	37	35	29	21	10									

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-111F	116.0	116.0	129.6	129.6	116.1	116.7	119.0	OMEGA	6.6
	113.8	113.8	127.3	127.3	114.8	115.4	117.7		
	111.5	111.5	124.9	124.9	113.5	114.1	116.4		
	109.2	109.2	122.5	122.5	112.2	112.8	114.9		
	106.8	106.8	120.0	120.0	110.8	111.4	113.4		
	104.3	104.3	117.3	117.3	109.4	110.0	111.7		
	101.8	101.8	114.5	114.5	107.9	108.5	109.9		
	99.3	99.3	111.5	111.5	106.3	106.9	107.9		
	96.6	96.6	108.3	108.3	104.6	105.2	105.7		
	93.8	93.8	104.9	104.9	102.8	103.4	103.3		
	90.8	90.6	101.3	101.3	100.9	101.5	100.7		
	87.7	87.7	97.3	97.3	98.7	99.3	97.7		
	84.2	84.2	92.9	92.9	96.3	96.9	94.3		
	80.4	80.4	88.3	88.3	93.5	93.9	90.6		
	76.1	76.1	83.3	83.3	90.2	90.5	86.5		
	71.5	71.5	78.1	78.1	86.5	86.8	82.2		
	67.1	67.1	73.6	73.6	83.1	83.3	78.6		
	62.4	62.4	68.8	68.8	79.4	79.4	74.7		
	57.2	57.2	63.6	63.6	75.3	75.3	70.4		
	51.6	51.6	57.9	57.9	70.7	70.7	65.7		
	45.6	45.6	51.6	51.6	65.6	65.6	60.4		
	39.0	39.0	44.4	44.4	60.1	60.1	54.2		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.



	50	60	70	80	90	100	110	120	130
200	(	(	(	(	(	(	(	(	(
	F-111F	97 % RPM	TAKEOFF POWER						
250	(	(	(	(	(	(	(	(	(
	AIRSPEED = 300 KNOTS								
315	(	(	(	(	(	(	(	(	(
	TEMP = 59 F	REL HUMID = 70 %							
400	(	(	(	(	(	(	(	(	(
	DELTA N = 0.0 DB								
500	(	(	(	(	(	(	(	(	(
	NO. OF RECORDS: 8								
	IDENT: 6.6-079-103-26C176-A								
S 630	(	(	(	(	(	(	(	(	(
L 800	(	(	(	(	(	(	(	(	(
N 1000	(	(	(	(	(	(	(	(	(
O 1250	(	(	(	(	(	(	(	(	(
I 1600	(	(	(	(	(	(	(	(	(
S 2000	(	(	(	(	(	(	(	(	(
A 2500	(	(	(	(	(	(	(	(	(
N 3150	(	(	(	(	(	(	(	(	(
C 4000	(	(	(	(	(	(	(	(	(
E 5000	(	(	(	(	(	(	(	(	(
E 6300	(	(	(	(	(	(	(	(	(
T 8000	(	(	(	(	(	(	(	(	(
10000	(	(	(	(	(	(	(	(	(
12500	(	(	(	(	(	(	(	(	(
16000	(	(	(	(	(	(	(	(	(
20000	(	(	(	(	(	(	(	(	(
25000	(	(	(	(	(	(	(	(	(

GROJND TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

200	F-111F TAKEOFF POWER										40
250	97 % RPM										50
315	AIR SPEED = 360 KNOTS	REL HUMID = 70 %									60
400	TEMP = 59 F	DELTA N = 0.0 DB									70
500	NO. OF RECGRDS: 8	IDENT: 6.6-079-103-280176-A									80
630											90
800											100
1000											110
1250											120
1600											
2000											
2500											
3150											
4000											
5000											
6300											
8000											
10000											
12500											
16000											
20000											
25000											

	20	30	40	50	60	70	80	90	MEAN	SD
F	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	71.1	4.2
R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	68.3	1.9
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	66.7	2.1
Q	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	77.2	1.4
U	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	84.3	1.6
E	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	87.2	3.2
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	82.8	4.9
C	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	80.2	2.7
Y	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	85.1	2.3
I	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	82.9	1.7
N	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	82.5	2.5
H	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	81.2	2.1
Z	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	79.4	2.1
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	77.5	2.3
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	76.1	1.9
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	74.4	2.2
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	72.7	2.3
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	70.9	2.4
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	72.7	3.0
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	69.4	3.4
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	62.0	2.7
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	54.9	3.5
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	48.1	4.7
	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	41.1	6.2

F-111F APPROACH POWER 81 % RPM

AIRSPEED = 150 KNOTS TEMP = 59 F PNLT = 100.5 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 99.9 PNDB

NO. OF RECORDS = 8 IDENT: 6.6-079-105-260176 ALT = 88.8 DBA

ALT = 88.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
OPERATION:		METEOROLOGY:																							
APPROACH POWER = 59 F		TEMP																							
81 % RPM		REL HUMID = 70 %																							
AIRSPEED = 150 KNOTS		DELTA N = 0.0 08																							
AIRCRAFT:		A/C CODE: 079																							
F-111F		OPS CODE: 105																							
		PROFILE VER: A																							
		28 JAN 76																							
		PAGE H3																							
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	82	81	91	98	101	97	95	100	97	97	96	94	93	92	91	90	89	92	90	84	81	79	80	
250	83	80	79	89	96	99	95	93	98	95	95	94	92	91	90	88	87	86	89	88	82	78	76	76	
315	81	78	77	87	94	97	93	90	96	93	93	92	90	89	88	85	84	84	87	85	79	75	73	72	
400	79	76	75	85	92	95	91	88	93	91	91	90	88	87	85	84	83	82	84	83	76	72	69	68	
500	77	74	73	83	90	93	89	86	91	89	89	88	86	84	83	82	80	79	82	80	73	68	65	63	
630	75	72	71	81	88	91	87	84	89	87	87	86	84	82	81	79	78	77	79	77	70	64	60	57	
800	73	70	69	79	86	89	85	82	87	85	85	83	82	80	78	77	75	74	76	73	66	60	54	50	
1000	71	68	67	77	84	87	83	80	85	83	83	81	79	78	76	74	73	71	73	69	62	55	48	41	
1250	69	66	65	75	82	85	81	78	83	81	80	79	77	75	74	72	70	68	69	65	57	49	41	31	
1600	67	64	63	73	80	83	79	76	81	78	78	77	75	73	71	69	67	64	65	60	52	42	32	19	
2000	65	62	61	71	78	81	76	74	79	76	76	74	72	70	68	66	63	60	60	55	46	34	21	4	
2500	63	60	59	69	76	79	74	72	76	74	73	72	69	67	65	62	59	56	55	48	38	25	8		
3150	61	58	56	67	74	77	72	69	74	71	71	69	66	64	61	58	55	51	49	40	30	13			
4000	59	56	54	65	72	75	70	67	72	69	68	66	63	60	58	54	50	45	42	31	19				
5000	57	54	52	63	69	72	67	65	69	66	65	63	60	57	54	49	45	38	34	20	6				
6300	55	52	50	60	67	70	65	62	66	63	62	60	56	53	49	44	38	30	24	7					
8000	53	50	48	58	65	67	62	59	64	60	59	56	52	48	43	37	30	21	11						
10000	50	47	46	56	62	65	60	56	61	57	55	52	47	42	37	30	21	9							
12500	48	45	43	53	60	62	57	53	57	53	51	47	42	36	29	21	10								
16000	46	43	41	51	57	59	54	50	53	49	46	41	35	28	21	10									
20000	44	40	38	48	54	56	50	46	49	44	41	35	28	20	10										
25000	41	38	36	45	51	53	47	42	45	39	34	28	19	9											

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)	IDENTIFICATION:	
F-111F	103.8	104.4	117.3	117.9	104.4	105.8	110.5	OMEGA	6.6
	101.7	102.3	115.1	115.7	103.3	104.7	109.2	A/C CODE: 079	
	99.5	100.1	112.7	113.3	102.1	103.5	107.9	OPS CODE: 105	
	97.3	97.9	110.4	111.0	100.9	102.3	106.5	PROFILE VER: A	
	95.1	95.7	107.9	108.5	99.7	101.1	105.1	28 JAN 76	
	92.8	93.4	105.3	105.9	98.4	99.8	103.5	PAGE	I3
	90.5	91.1	102.6	103.2	97.1	98.5	101.8		
	88.2	88.8	99.9	100.5	95.8	97.2	100.1		
	85.8	86.4	97.3	98.0	94.4	95.8	98.5		
	83.3	83.9	94.7	95.3	92.9	94.3	96.9		
	80.8	81.4	91.9	92.6	91.4	92.8	95.1		
	78.2	78.8	89.1	89.7	89.8	91.2	93.3		
	75.5	76.1	86.2	86.8	88.1	89.5	91.3		
	72.7	73.2	83.1	83.6	86.3	87.4	89.0		
	69.8	70.2	79.9	80.3	84.4	85.2	86.6		
	68.8	69.0	76.6	76.9	82.4	82.9	84.0		
	63.6	63.7	73.2	73.3	80.2	80.5	81.3		
	60.2	60.2	69.5	69.5	77.8	77.8	78.3		
	56.6	56.6	65.7	65.7	75.3	75.3	75.5		
	52.9	52.9	61.7	61.7	72.5	72.5	72.5		
	48.9	48.9	57.5	57.5	69.5	69.5	69.3		
	44.7	44.7	52.9	52.9	65.3	65.3	65.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

Noise Level (dB)	F-111F APPROACH POWER			X	P
	81% RPM	150 KNOTS	70% HUMID		
200	.	.	.	.	.
250	.	.	.	X	*P
315	.	.	.	X	X
400	.	.	A+	.	*P
500	.	.	A+	.	X
S 630	.	.	X	.	*P
L 800	.	.	.	X	.
A 1000	.	.	A+	.	*P
N 1250	.	.	X	.	*P
I 1600	.	.	A+	.	.
S 2000	.	.	X.	.	*P
T 2500	.	.	A+	.	*P
A 3150	.	.	.	.	.
N 4000	.	.	X	.	*P
F 5000	.	.	X	.	.
E 6300	.	X	.	.	.
E 8000	.	X	.	.	.
10000	.	X	.	.	.
12500	.	X	.	.	.
16000	.	X	.	.	.
20000	.	X.	.	.	.
25000	.	.	.	.	.

AIR TO GROUND  
P = PNLT  
\* = PNL  
+ = ALT  
A = AL

```

200 (-----S-T-E)
    ( F-111F      APPROACH POWER
250 (      81 % RPM
    ( AIRSPEED = 150 KNOTS
315 (      TEMP = 59 F   REL HUMID = 70 %
    ( DELTA N = 0.0 DB
400 (      NO. OF RECORDS: 8
    ( IDENT: 6.6-079-105-280176-A
500 (
    (
630 (
    (
800 (
    (
1000 (
    (
1250 (
    (
1600 (
    (
2000 (
    (
2500 (
    (
3150 (
    (
4000 (
    (
5000 (
    (
6300 (
    (
8000 (
    (
10000 (
    (
12500 (
    (
16000 (
    (
20000 (
    (
25000 (-----X-----

```

```

30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																						
AIRCRAFT:		A/C CODE: 079																						
OPERATION:		OPS CODE: 105																						
APPROACH POWER		PROFILE VER: A																						
81 % RPM		28 JAN 76																						
AIRSPEED = 150 KNOTS		PAGE L3																						
DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	FREQUENCY BAND NUMBER																							
200	80	77	76	86	93	96	92	90	95	92	92	91	89	88	87	86	85	84	87	85	79	76	74	75
250	78	75	74	84	91	94	90	88	93	90	90	89	87	86	85	83	82	81	84	83	77	73	71	71
315	76	73	72	82	89	92	88	85	91	88	88	87	85	84	83	81	80	79	82	80	74	70	68	67
400	74	71	70	80	87	90	86	83	88	86	86	85	83	82	80	79	78	77	79	78	71	67	64	63
500	72	69	68	78	85	88	83	81	86	84	84	83	81	79	78	77	75	74	77	75	68	63	60	58
630	70	67	66	76	83	85	81	79	84	82	82	81	79	77	76	74	73	72	74	72	65	59	55	52
800	68	65	64	74	80	82	78	76	82	80	80	78	77	75	73	72	70	69	71	68	61	55	49	45
1000	66	63	62	71	77	79	75	73	80	78	78	76	74	73	71	69	68	66	68	64	57	50	43	36
1250	64	61	59	68	74	76	72	70	77	76	75	74	72	70	69	67	65	63	64	60	52	44	36	26
1600	62	58	55	64	70	73	68	66	74	73	73	72	70	68	66	64	62	59	60	55	47	37	27	14
2000	59	55	52	61	67	69	64	62	70	71	71	69	67	65	63	61	58	55	55	50	41	29	16	
2500	55	51	47	56	62	65	60	58	66	67	68	67	64	62	60	57	54	51	50	43	33	20	3	
3150	51	46	43	51	57	60	55	53	62	63	65	64	61	59	56	53	50	46	44	35	25	8		
4000	47	41	37	46	52	54	49	47	56	58	61	60	58	55	53	49	45	40	37	26	14			
5000	42	36	33	41	47	49	44	42	50	53	57	56	55	52	49	44	40	33	29	15	1			
6300	37	32	28	36	42	44	40	37	44	47	52	52	50	48	44	39	33	25	19	2				
8000	35	30	26	34	40	42	37	34	42	44	49	48	46	43	38	32	25	16	6					
10000	32	27	24	32	37	39	34	31	39	41	45	44	41	37	32	25	16	4						
12500	30	25	21	29	35	37	31	28	35	37	41	39	36	31	24	16	5							
16000	28	23	19	27	32	34	28	25	31	33	35	33	29	23	16	5								
20000	26	20	16	24	29	31	25	21	27	28	31	27	22	15	5									
25000	23	18	14	21	26	27	21	17	23	23	24	20	13	4										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PN'DB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-111F	98.8	99.6	112.3	113.0	99.4	100.9	105.6	OMEGA	6.6
	96.7	97.4	110.0	110.8	98.3	99.8	104.4		
	94.5	95.3	107.7	108.5	97.1	98.6	103.0		
	92.3	93.1	105.3	106.1	95.9	97.5	101.6		
	90.1	90.8	102.8	103.6	94.7	96.2	100.1		
	87.8	88.5	100.1	100.9	93.4	94.9	98.5		
	85.4	86.2	97.3	98.1	92.0	93.5	96.7		
	83.0	83.7	94.4	95.2	90.6	92.1	94.7		
	80.4	81.2	91.3	92.1	89.0	90.5	92.6		
	77.7	78.5	88.3	89.0	87.3	88.9	90.6		
	75.0	75.7	85.1	85.8	85.6	87.1	88.4		
	71.9	72.7	81.4	82.1	83.5	85.0	85.7		
	68.5	69.3	77.3	78.0	81.1	82.6	82.6		
	64.7	65.3	72.7	73.3	78.3	79.5	78.7		
	60.4	60.9	67.8	68.2	75.0	75.9	74.5		
	55.8	56.1	62.5	62.8	71.4	72.0	69.9		
	51.8	52.0	58.3	58.5	68.4	68.7	66.5		
	47.4	47.4	53.6	53.6	65.1	65.1	62.4		
	42.7	42.7	48.5	48.5	61.3	61.3	58.3		
	37.5	37.5	42.5	42.5	57.1	57.1	53.3		
	31.8	31.8	35.2	35.2	52.4	52.4	47.0		
	25.7	25.7	25.9	25.9	47.3	47.3	38.7		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
\*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	F-111F APPROACH POWER									
	40	50	60	70	80	90	100	110	120	
200	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
250	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
315	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
400	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
500	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
S 630	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
L A 800	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
N T 1000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
O 1250	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
I S 1600	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
T A 2000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
N C 2500	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
E 3150	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
I N 4000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
F 5000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
E E 6300	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
T 8000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
10000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
12500	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
16000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
20000	(	(	(	(	(	(	(	(	(	)
	(	(	(	(	(	(	(	(	(	)
25000	(	(	(	(	(	(	(	(	(	)

-----S-T-E-----

200 ( ( F-111F APPROACH POWER ) )

250 ( ( 81 % RPM ) )

315 ( ( AIRSPEED = 150 KNOTS ) )

400 ( ( TEMP = 59 F REL HUMID = 70 % ) )

500 ( ( DELTA N = 0.0 DB ) )

630 ( ( NO. OF RECORDS: 8 ) )

800 ( ( IDENT: 6.6-679-105-280176-A ) )

1000 ( ( ) )

1250 ( ( ) )

1600 ( ( ) )

2000 ( ( ) )

2500 ( ( ) )

3150 ( ( ) )

4000 ( ( ) )

5000 ( ( ) )

6300 ( ( ) )

8000 ( ( ) )

10000 ( ( ) )

12500 ( ( ) )

16000 ( ( ) )

20000 ( ( ) )

25000 ( ( ) )

-----E-----

30 40 50 60 70 80 90 100 110

NOISE LEVEL IN DB

F R E Q U E N C Y	M E A N V A L U E O F N O R M A L I Z E D 1 / 3 O B S P L I N D B											MEAN	SD				
	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160		
50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	65.2	2.8
63	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	65.4	1.2
80	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	64.1	2.4
100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	75.1	4.6
125	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	83.0	3.5
160	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	83.3	2.7
200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	79.2	2.7
250	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	78.9	3.1
315	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	83.8	3.0
400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	84.4	2.0
500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	85.5	2.4
630	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	84.3	2.1
800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	83.8	2.0
1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	83.1	2.0
1250	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	82.3	2.4
1600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	82.2	2.3
2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	81.7	2.4
2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	80.3	2.3
3150	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	78.6	3.0
4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	74.7	3.7
5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	68.8	4.8
6300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	62.6	6.0
8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	56.7	7.4
10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	51.1	9.0

F-111F INTERMEDIATE POWER 86 % RPM  
 AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 104.3 PNDB  
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 104.3 PNDB  
 NO. OF RECORDS = 8 IDENT: 6.6-079-106-280176 ALT = 92.6 DBA  
 AL = 92.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 079																							
OPERATION:		OPS CODE: 106																							
INTERMEDIATE POWER		PROFILE VER: A																							
86 % RPM		28 JAN 75																							
AIRSPEED = 350 KNOTS		PAGE H4																							
DELTA N = 0.0 DB																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	79	79	78	89	97	98	93	93	98	99	100	99	99	99	98	98	99	98	98	98	96	91	88	88	90
250	77	77	76	87	95	96	91	91	90	97	98	97	97	96	96	96	96	96	95	93	93	89	86	85	87
315	75	75	74	85	93	94	89	89	94	95	96	95	95	94	94	94	94	93	93	93	91	86	83	81	83
400	73	73	72	83	91	91	87	87	92	93	94	93	93	92	92	92	92	91	90	88	88	83	80	78	78
500	71	71	70	81	89	89	85	85	90	91	92	91	90	90	89	89	89	89	88	88	85	80	76	73	73
630	69	69	68	79	87	87	83	83	88	89	90	89	88	88	87	87	87	86	85	85	82	77	72	69	67
800	67	67	66	77	85	85	81	81	86	87	88	87	86	86	85	85	84	83	82	82	79	73	68	63	60
1000	65	65	64	75	83	83	79	79	84	84	86	84	84	83	82	82	82	80	79	79	75	69	63	57	51
1250	63	63	62	73	81	81	77	77	82	82	83	82	81	81	80	79	79	77	75	75	70	64	57	49	41
1600	61	61	60	71	79	79	75	75	79	80	81	80	79	78	77	77	76	74	71	71	66	59	50	40	29
2000	59	59	58	69	77	77	73	72	77	78	79	77	76	75	74	73	72	70	66	66	60	52	42	29	14
2500	57	57	56	67	75	75	71	70	75	75	76	75	74	73	71	70	68	65	61	61	53	45	32	16	0
3150	55	55	54	65	73	73	68	68	73	73	74	72	71	69	68	67	64	60	55	55	46	36	21	0	
4000	53	53	52	63	70	71	66	66	70	70	71	69	68	66	64	62	59	54	48	48	36	26	13	7	
5000	51	51	50	60	68	68	64	63	68	68	68	66	64	62	60	57	53	48	39	39	25	13			
6300	49	49	47	58	66	66	61	61	65	65	65	63	61	58	55	51	47	39	29	29	12				
8000	47	47	45	56	64	63	59	58	62	62	62	59	56	53	49	45	39	30	17	17					
10000	44	44	43	54	61	61	56	55	59	58	58	55	52	48	43	37	30	18	2	2					
12500	42	42	41	51	59	58	53	52	56	55	54	50	46	41	35	28	19	4							
16000	40	40	38	49	56	55	50	49	52	50	49	44	40	34	26	17	5								
20000	38	37	36	46	53	52	47	45	48	46	43	38	32	25	16	4									
25000	35	35	33	43	50	49	43	41	43	40	37	31	23	14	2										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (JBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
F-111F	108.9	108.9	122.1	122.1	106.6	107.8	110.8	OMEGA 6.6	
	106.8	106.8	119.8	119.8	105.4	106.6	109.5	A/C CODE: 079	
	104.5	104.5	117.5	117.5	104.2	105.4	108.1	OPS CODE: 106	
	102.3	102.3	115.0	115.0	102.9	104.1	106.7	PROFILES VER: A	
	99.9	99.9	112.5	112.5	101.6	102.8	105.2	28 JAN 76	
	97.6	97.6	109.9	109.9	100.2	101.4	103.5	PAGE 14	
	95.1	95.1	107.2	107.2	99.8	100.0	101.8		
	92.6	92.6	104.3	104.3	97.2	98.4	100.0		
	90.0	90.0	101.3	101.3	95.6	96.8	98.0		
	87.3	87.3	98.1	98.1	93.9	95.0	95.8		
	84.5	84.5	94.8	94.8	92.1	93.3	93.5		
	81.5	81.5	91.4	91.4	90.2	91.4	91.1		
	78.5	78.5	88.2	88.2	88.2	89.4	89.8		
	75.3	75.3	84.8	84.8	86.0	87.0	86.2		
	72.0	72.0	81.3	81.3	83.7	84.4	83.5		
	68.6	68.6	77.6	77.6	81.2	81.7	80.5		
	64.9	64.9	73.7	73.7	78.6	78.8	77.4		
	61.0	61.0	69.7	69.7	75.7	75.7	74.2		
	57.0	57.0	65.3	65.3	72.6	72.6	70.8		
	52.6	52.6	60.6	60.6	69.3	69.3	67.1		
	48.0	48.0	55.8	55.8	65.7	65.7	63.3		
	43.2	43.2	50.3	50.3	61.9	61.9	58.8		

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

```

200 (-----X-----X-----X-----)
( F-111F INTERMEDIATE POWER )
250 ( . 86 % RPM . X . X )
315 ( AIRSPEED = 350 KNOTS . . . )
( TEMP = 59 F REL HUMID = 70 % . X . X . )
( DELTA N = 0.0 DB . . . X . . )
( NO. OF RECORDS: 8 . . . X . . )
( IDENT: 6.6-079-106-280176-A . . . )
500 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
630 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
800 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
1000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
1250 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
1600 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
2000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
2500 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
3150 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
4000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
5000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
6300 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
8000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
10000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
12500 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
16000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
20000 ( . . . . . X . . . . . )
( . . . . . X . . . . . )
25000 (-----X-----X-----X-----)

```

NOISE LEVEL IN DB

50 60 70 80 90 100 110 120 130





TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		METEOROLOGY:																							
( OPERATION:		A/C CODE: 079																							
( INTERMEDIATE POWER		OPS CODE: 106																							
( 86 % RPM		REL HUMID = 70 %																							
( AIRSPEED = 350 KNOTS		DELTA N = 0.0 DB																							
		PAGE L4																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	74	74	73	73	84	92	93	88	88	93	94	95	94	94	94	93	93	94	93	93	91	86	83	83	85
250	72	72	71	82	90	91	86	86	86	91	92	93	92	92	91	91	91	91	91	90	88	84	81	80	82
315	70	70	69	80	88	89	84	84	84	89	90	91	90	90	89	89	89	89	88	88	86	81	78	76	78
400	68	68	67	78	86	86	82	82	82	87	88	89	88	88	87	87	87	87	86	85	83	78	75	73	73
500	66	66	65	76	84	84	80	80	80	85	86	87	86	85	85	84	85	84	84	83	80	75	71	68	68
630	64	64	63	74	81	81	77	77	77	83	84	85	84	83	83	82	82	82	81	80	77	72	67	64	62
800	62	62	61	72	79	79	74	74	75	81	82	83	82	81	81	80	80	79	79	77	74	68	63	58	55
1000	60	60	59	69	76	76	71	72	72	79	79	81	79	79	78	77	77	77	75	74	70	64	58	52	46
1250	58	58	56	66	73	72	68	68	68	76	77	78	77	76	76	75	74	74	72	70	65	59	52	44	36
1600	56	55	53	62	69	69	65	65	65	72	73	74	72	71	70	69	68	67	65	61	55	47	37	24	9
2000	53	52	49	58	65	65	61	61	61	69	73	74	72	71	70	69	68	65	63	60	56	48	40	27	11
2500	49	48	45	54	61	61	57	57	57	65	69	71	70	69	68	66	65	63	60	56	48	40	27	11	
3150	46	43	40	49	56	56	52	52	52	60	65	68	67	66	64	63	61	59	55	50	41	31	16		
4000	41	38	35	44	50	50	46	46	46	55	60	64	63	63	61	59	57	54	49	43	31	21			
5000	36	33	30	39	46	45	41	41	41	49	54	60	59	59	57	55	52	48	43	34	20				
6300	31	29	25	34	41	40	36	36	36	43	49	55	55	55	53	50	46	42	34	24					
8000	29	27	23	32	39	38	33	33	33	40	46	52	51	50	48	44	40	34	25	12					
10000	26	24	21	30	36	35	31	30	30	37	42	48	47	46	43	38	32	25	13						
12500	24	22	19	27	34	33	28	27	27	34	39	44	42	40	36	30	23	14							
16000	22	20	16	25	31	30	25	24	24	30	34	39	36	34	29	21	12								
20000	20	17	14	22	28	27	21	21	21	26	30	33	30	26	20	11									
25000	17	15	11	19	25	23	18	16	16	21	24	27	23	17	9										

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	METEOROLOGY:		
F-111F	103.9	104.5	117.1	117.7	101.6	103.4	106.4	TEMP = 59 F	REL HUMID = 70 %	A/C CODE: 079
	101.8	102.3	114.8	115.4	100.4	102.2	105.1	DELTA N = 0.0 DB		OPS CODE: 106
	99.5	100.1	112.5	113.1	99.2	101.0	103.7			PROFILE VER: A
	97.3	97.9	110.6	110.6	97.9	99.7	102.3			28 JAN 76
	94.9	95.5	107.4	108.0	96.6	98.4	100.7			PAGE M4
	92.5	93.1	104.8	105.4	95.2	97.0	99.0			
	90.1	90.7	102.6	102.6	93.8	95.5	97.3			
	87.5	88.1	99.0	99.6	92.2	94.0	95.3			
	84.9	85.5	95.8	96.4	90.6	92.3	93.1			
	82.1	82.7	92.4	93.0	88.8	90.6	90.7			
	79.3	79.9	88.8	89.4	86.9	88.7	88.1			
	76.1	76.7	84.9	85.5	84.8	86.6	85.2			
	72.7	73.3	80.8	81.4	82.4	84.2	82.1			
	68.9	69.4	76.3	76.8	79.6	81.0	78.2			
	64.7	65.0	71.3	71.7	76.3	77.4	73.9			
	60.0	60.3	66.1	66.3	72.7	73.4	69.3			
	55.7	55.8	61.6	61.7	59.4	69.7	65.5			
	51.0	51.0	56.8	56.8	65.7	65.7	61.3			
	45.9	45.9	51.5	51.5	61.6	61.6	57.0			
	40.3	40.3	45.5	45.5	57.0	57.0	52.0			
	34.2	34.2	37.4	37.4	51.9	51.9	44.9			
	27.5	27.5	29.0	29.0	46.1	46.1	37.5			

\* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8  
 \*\* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

			INTERMEDIATE POWER											
200	F-111F													
250	86 % RPM													
315	AIRSPEED = 350 KNOTS													
	TEMP = 59 F REL HUMID = 70 %													
400	DELTA N = 0.0 03													
	NO. OF RECORDS: 8													
500	IDENT: 6.6-079-106-280176-A													
S 630														
L 800														
A 1000														
N 1250														
D 1600														
I 2000														
S 2500														
T 3150														
A 4000														
N 5000														
C 6300														
E 8000														
E 10000														
T 12500														
16000														
20000														
25000														

NOISE LEVEL IN DB

40      50      60      70      80      90      100      110      120

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200 (-----ST-E-----)
    ( F-111F INTERMEDIATE POWER
250 ( . 86 % RPM . . . . . S T E .
    ( AIRSPEED = 350 KNOTS
315 ( . TEMP = 59 F REL HUMID = 70 % . . . . . S.T E .
    ( DELTA N = 0.0 DB
400 ( . NO. OF RECORDS: 8 . . . . . S T E .
    ( IDENT: 6.6-079-106-280176-A
500 ( . . . . . .ST.E. . . . .
    (
S 630 ( . . . . . S T E.
L 800 ( . . . . . S T E .
N 1000 ( . . . . . S T E.
D 1250 ( . . . . .STE
I 1600 ( . . . . .S.X
S 2000 ( . . . . .SET. . . . .
A 2500 ( . . . . .X T .
N 3150 ( . . . . .X T .
C 4000 ( . . . . .E S T .
E 5000 ( . . . . .E S T. . . . .
E 6300 ( . . . . .E. X .
T 8000 ( . . . . .E S T .
10000 ( . . . . .E. X . . . . .GROUND TO GROUND
12500 ( . . . . .E . X . . . . .E = EPNL
16000 ( . . . . .E X . . . . .T = SELT
20000 ( . . . . .E. X . . . . .S = SEL
25000 (-----E-X-----)
30 40 50 60 70 80 90 100 110
NOISE LEVEL IN DB

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TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																			
1/3 OCTAVE BAND		) OMEGA 8.2																			
DISTANCE = 250 FEET		) TEST 74-079-001																			
		) RUN 01																			
NOISE SOURCE/SUBJECT:		) AIRCRAFT CODE 079																			
F-111F AIRCRAFT		) OPERATION CODE 02013																			
ENG. TF33-P-100		) PROFILE VERSION A																			
GROUND RUNUP		) 00 APR 76																			
		) PAGE C1																			
		) METEOROLOGY:																			
		) TEMP = 59 F																			
		) BAR PRESS = 29.92 IN HG																			
		) REL HUMID = 70 %																			
		) DELTA N = -3.0 DB																			
BAND CENTER		ANGLE (DEGREES)																			
FREQ (HZ)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
50	66<	63	65	64	62	62	62	64	62	61	65	63	65	65	63	65	64	63	61<	41	
63	66<	66	67	67	65	66	66	66	65	66	67	67	66	66	67	68	68	68	66	61<	41
80	66	71	73	73	73	73	75	73	72	72	72	74	74	74	74	75	75	73	61	41	
100	64	71	73	72	71	74	74	71	70	71	74	75	76	75	75	75	77	73	62	42	
125	60	66	67	67	64	64	64	65	65	68	70	71	71	70	69	69	70	68	58	38	
150	62	68	68	66	62	62	62	63	63	65	68	70	72	75	72	72	71	70	60	40	
200	64	70	68	64	62	64	64	65	63	65	68	69	70	71	71	69	68	71	57	37	
250	66	71	68	66	64	64	64	65	64	65	67	67	67	68	68	68	67	71	58	38	
315	66	72	69	68	64	64	65	65	62	61	63	63	64	67	69	68	72	71	60	40	
400	67	72	69	69	65	65	62	65	60	59	59	61	62	64	65	66	67	71	60	40	
500	68	69	70	72	67	67	64	66	61	64	62	60	62	62	65	65	67	70	60	40	
630	68	69	72	72	67	67	63	66	61	62	60	60	62	62	65	65	67	67	57	37	
800	75	78	82	79	75	75	72	71	69	66	64	65	64	64	67	65	67	68	59	39	
1000	76	78	81	79	76	76	73	72	71	66	65	64	64	65	65	64	66	66	57	37	
1250	75	78	78	78	76	76	73	72	69	65	62	63	63	65	65	63	64	63	55	35	
1600	90	96	95	92	87	87	82	83	80	78	72	70	71	69	72	76	75	74	66	46	
2000	89	95	94	92	88	84	84	83	81	78	76	75	75	73	76	78	79	77	69	49	
2500	82	86	84	85	82	79	77	77	75	73	71	71	70	73	75	71	69	69	63	43	
3150	82	86	84	84	83	79	76	76	75	73	71	71	70	70	70	69	68	68	62	42	
4000	84	88	87	86	86	82	79	79	78	76	75	74	74	75	75	74	71	70	64	44	
5000	80	84	82	80	80	76	74	74	73	69	70	69	72	72	72	69	67	66	56	36	
6300	78	81	80	79	79	75	73	71	68	70	69	70	73	74	70	67	65	56	36		
8000	74	77	76	75	75	71	70	67	64	69	66	67	69	69	65	64	63	52<	32		
10000	70	73	72	70	71	66	65	62	62	62	64	64	67	66	63	61	60	48	28		
OVERALL	94	99	99	97	93	89	89	87	85	84	84	84	84	84	85	85	85	84	75	55	

XXX< = EXTRAPOLATED OR INTERPOLATED SPL  
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PN08)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													IDENTIFICATION:					
DISTANCE (FEET)	NOISE SOURCE/SUBJECT:	METEOROLOGY:													OMEGA 8.2					
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
	F-111F AIRCRAFT	109.0	113.7	113.1	111.7	109.0	105.2	104.0	102.2	100.1	100.1	99.0	98.9	99.8	100.2	99.5	99.6	98.6	89.9	69.3
	ENG. TF30-P-100	106.8	111.5	110.9	109.4	106.6	102.9	101.8	99.8	97.7	97.7	96.7	96.5	97.4	97.8	97.3	97.4	96.4	87.6	67.0
	GROUND RUNUP	102.1	106.8	106.2	104.8	101.6	97.9	97.1	94.9	92.7	92.7	91.7	91.5	92.4	92.8	92.5	92.5	94.1	85.3	64.6
		99.7	104.4	103.8	102.3	99.0	95.3	94.6	92.4	90.1	90.0	89.0	88.8	89.7	90.1	90.1	90.3	89.3	80.5	59.5
		97.1	101.8	101.2	99.8	96.3	92.7	92.0	89.8	87.4	87.1	86.1	86.0	86.8	87.4	87.5	87.7	86.7	77.9	56.7
		94.4	99.1	98.6	97.1	93.6	90.0	89.3	87.0	84.7	84.0	83.0	83.0	83.7	84.5	84.7	85.0	84.0	75.2	53.9
		91.5	96.3	95.7	94.3	90.7	87.1	86.4	84.2	81.8	80.6	79.8	80.0	80.4	81.5	81.8	82.2	81.1	72.3	50.7
		89.5	93.3	92.7	91.3	87.6	84.0	83.4	81.0	78.7	77.2	76.7	76.9	77.1	78.2	78.7	79.1	78.1	69.2	47.0
		85.2	90.0	89.5	88.0	84.2	80.6	80.1	77.7	75.4	73.8	73.3	73.5	73.5	74.7	75.4	75.9	74.8	65.9	43.0
		81.8	86.6	86.1	84.5	80.7	77.0	76.5	74.1	71.7	70.0	69.5	69.7	69.7	71.1	71.8	72.3	71.3	62.3	38.0
		78.1	82.9	82.4	80.7	76.7	73.1	72.6	70.2	67.8	65.9	65.4	65.6	65.3	67.0	67.8	68.4	67.4	58.2	32.1
		74.0	78.9	78.5	76.5	72.4	68.7	68.3	65.8	63.3	61.3	60.8	61.1	60.6	62.5	63.3	64.0	63.0	53.6	24.6
		69.6	74.5	74.1	71.9	67.6	63.8	63.6	60.8	58.2	56.1	55.6	55.8	55.3	57.2	58.2	59.0	58.0	48.6	15.8
		64.7	69.6	69.2	67.0	62.6	58.3	58.5	55.3	52.8	50.0	49.5	49.8	49.2	51.4	52.3	53.2	52.4	42.1	6.9
		59.1	64.0	63.7	61.5	56.9	52.3	52.8	49.5	46.9	42.7	42.1	42.4	41.4	44.2	45.8	47.0	45.7	34.1	
		52.8	57.9	57.6	55.4	50.6	45.9	46.8	42.3	39.1	33.9	33.2	33.9	32.9	36.2	37.9	39.2	38.0	22.7	
		45.6	50.8	50.6	48.3	42.8	36.7	37.9	32.9	29.4	20.8	20.3	21.2	21.3	25.3	28.0	29.8	30.4	11.4	
		35.0	41.7	41.6	38.7	32.0	23.8	25.6	18.9	11.9	7.7	7.4	8.4	9.7	12.6	13.7	18.9	21.2	.0	
		18.3	27.7	29.3	24.7	15.7	7.9	6.7	4.8											
		1.6	13.7	13.6	7.6															

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT	METEOROLOGY:																			
	TEMP = 59 F																			
ENG. TF30-P-100	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = -3.0 DB																			
	ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	111.8	116.8	116.1	114.0	111.2	106.9	105.9	104.3	102.4	102.0	100.7	100.6	101.1	101.6	101.9	102.2	100.9	91.8	71.2	
250	109.5	114.5	113.9	111.8	108.8	104.5	103.7	101.9	100.0	99.7	98.4	98.3	98.7	99.2	99.6	99.9	98.7	89.6	68.9	
315	107.2	112.2	111.6	109.5	106.4	102.1	101.4	99.5	97.6	97.2	95.9	95.8	96.3	96.8	97.3	97.6	96.4	87.3	66.5	
400	104.8	109.9	109.2	107.2	103.8	99.6	99.0	96.9	95.0	94.6	93.4	93.3	93.7	94.2	94.9	95.3	94.0	84.9	64.0	
500	102.4	107.4	106.8	104.7	101.2	97.0	96.5	94.4	92.4	91.9	90.7	90.6	91.0	91.5	92.4	92.8	91.6	82.4	61.4	
630	99.8	104.9	104.2	102.2	98.5	94.4	93.9	91.8	89.7	89.0	87.8	87.7	88.1	88.8	89.8	90.3	89.0	79.8	58.6	
800	97.1	102.2	101.6	99.5	95.8	91.7	91.2	89.1	87.0	85.9	84.7	84.7	85.0	85.9	87.1	87.6	86.3	77.1	55.8	
1000	94.2	99.3	98.7	96.7	92.9	88.8	88.4	86.2	84.1	82.6	81.5	81.8	81.7	82.9	84.2	84.7	83.5	74.2	52.6	
1250	91.2	96.3	95.7	93.6	89.8	85.6	85.3	83.1	81.0	79.2	78.4	78.6	78.4	79.6	81.1	81.7	80.4	71.2	48.9	
1600	87.9	93.0	92.5	90.4	86.4	82.3	82.0	79.8	77.7	75.7	75.0	75.2	74.8	76.1	77.7	78.4	77.2	67.9	44.9	
2000	84.5	89.6	89.1	86.9	82.9	78.7	78.4	76.2	74.0	72.0	71.2	71.5	70.9	72.4	74.1	74.9	73.6	64.2	39.9	
2500	80.8	86.0	85.4	83.1	78.9	74.8	74.5	72.3	70.0	67.9	67.1	67.4	66.6	68.3	70.1	70.9	69.7	60.1	34.0	
3150	76.8	82.0	81.5	78.8	74.6	70.4	70.2	67.9	65.6	63.3	62.5	62.8	61.9	63.8	65.7	66.6	65.3	55.6	26.5	
4000	71.7	76.9	76.5	73.8	69.3	65.1	65.1	62.5	60.1	57.7	57.0	57.2	56.3	58.3	60.0	61.1	59.9	50.1	17.3	
5000	66.3	71.4	71.0	68.4	63.9	59.3	59.6	56.6	54.2	51.2	50.5	50.9	50.0	52.3	53.7	54.8	53.8	43.3	8.0	
6300	60.2	65.2	64.9	62.5	57.8	53.0	53.5	50.3	47.9	43.5	42.8	43.1	42.0	44.8	46.8	48.0	46.7	34.9		
8000	53.4	58.5	58.2	55.8	51.1	46.2	47.0	42.7	39.5	34.3	33.6	34.3	33.2	36.5	38.3	39.7	38.5	23.1		
10000	45.6	50.8	50.6	48.3	42.8	36.7	37.9	32.9	29.4	20.8	20.3	21.2	21.3	25.3	28.0	29.8	30.4	11.4		
12500	35.0	41.7	41.6	38.7	32.0	23.8	25.6	18.9	11.9	7.7	7.4	8.4	9.7	12.6	13.7	18.9	21.2	7.0		
16000	18.3	27.7	29.3	24.7	15.7	7.9	6.7	4.8												
20000	1.6	13.7	13.6	7.6																

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 079 ) IDENTIFICATION: )  
F-11F AIRCRAFT ( IDLE, 65% RPM ) ) TEMP = 59 F ) ) OMEGA 8.2 )  
ENG. TF33-P-100 ( SINGLE ENGINE ) ) BAR PRESS = 29.92 IN HG ) ) TEST 74-079-001 )  
GROUND RUNUP ( ) ) REL HUMID = 70 % ) ) RUN 01 )  
( ) ) DELTA N = -3.0 DB ) ) ) AIRCRAFT CODE 079 )  
( ) ) ) ) ) PROFILE VERSION A )  
( ) ) ) ) ) 06 APR 76 )  
( ) ) ) ) ) PAGE F1 )

DISTANCE ( FEET ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180 )

ANGLE ( DEGREES )

200	97.6	102.5	101.8	100.0	96.5	92.4	91.6	89.4	86.8	85.2	84.2	84.1	84.8	85.8	85.6	85.3	84.4	76.4
250	95.4	100.3	99.6	97.8	94.3	90.2	89.4	87.2	84.6	82.9	81.9	81.8	82.4	83.5	83.4	83.1	82.2	74.2
315	93.1	98.1	97.4	95.5	92.0	87.9	87.1	84.9	82.3	80.5	79.5	79.4	80.0	81.1	81.1	80.9	80.0	72.0
400	90.8	95.8	95.1	93.3	89.6	85.5	84.8	82.5	79.9	78.1	77.1	77.0	77.5	78.7	78.8	78.6	77.7	69.7
500	88.5	93.4	92.8	90.9	87.2	83.1	82.4	80.1	77.5	75.5	74.6	74.5	74.9	76.1	76.3	76.3	75.4	67.3
630	86.0	91.0	90.4	88.5	84.6	80.5	80.0	77.6	75.0	72.8	72.0	71.9	72.2	73.5	73.8	73.8	73.0	64.8
800	83.5	88.5	87.9	85.9	82.0	77.9	77.4	75.0	72.4	70.1	69.2	69.1	69.4	70.7	71.2	71.3	70.4	62.3
1000	80.8	85.8	85.3	83.3	79.2	75.1	74.7	72.2	69.6	67.1	66.3	66.3	66.4	67.9	68.5	68.7	67.8	59.6
1250	78.0	83.1	82.5	80.5	76.3	72.2	71.9	69.4	66.7	64.1	63.3	63.3	63.3	64.7	65.7	65.9	65.1	56.8
1600	75.0	80.1	79.6	77.5	73.3	69.2	68.9	66.3	63.7	60.8	60.1	60.1	60.0	61.7	62.7	63.0	62.2	53.8
2000	71.9	77.0	76.5	74.4	70.0	65.9	65.7	63.1	60.4	57.4	56.7	56.8	56.6	58.4	59.5	59.9	59.1	50.7
2500	68.5	73.5	73.1	70.9	66.5	62.4	62.3	59.6	56.9	53.7	53.1	53.2	52.9	54.8	56.0	56.5	55.8	47.3
3150	64.7	69.8	69.4	67.2	62.7	58.6	58.6	55.8	53.2	49.8	49.2	49.4	49.0	51.0	52.3	52.8	52.6	43.6
4000	60.6	65.7	65.3	63.1	58.6	54.4	54.5	51.7	49.0	45.6	45.0	45.2	44.8	46.8	48.1	48.7	48.1	39.5
5000	56.0	61.0	60.8	58.5	54.0	49.8	50.0	47.2	44.4	40.9	40.4	40.6	40.2	42.2	43.5	44.1	43.7	34.9
6300	50.8	55.8	55.6	53.3	48.8	44.7	44.9	42.1	39.3	35.9	35.3	35.5	35.2	37.2	38.4	39.0	38.8	29.9
8000	45.0	49.8	49.9	47.6	43.2	39.2	39.3	36.6	33.7	30.5	30.2	30.4	30.3	32.3	33.1	34.0	34.0	24.9
10000	38.5	43.1	43.5	41.2	36.9	33.1	33.3	30.6	27.7	25.0	24.9	25.1	25.3	27.2	27.5	28.9	29.1	19.7
12500	31.3	35.5	36.6	34.3	30.2	26.7	26.8	24.2	21.5	19.2	19.5	19.8	20.2	21.9	21.9	23.7	24.1	14.5
16000	23.8	27.3	29.2	27.1	23.1	19.8	20.1	17.4	15.1	13.4	13.9	14.3	14.9	16.5	16.4	18.5	19.0	9.1
20000	16.0	19.0	21.6	19.6	15.7	12.7	13.1	10.3	8.7	7.5	8.2	8.9	9.5	10.9	10.9	13.1	13.5	3.4
25000	8.2	10.9	13.5	11.9	7.9	5.2	6.0	2.9	2.3	1.8	2.6	3.5	4.2	5.1	5.2	7.5	7.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	170	>150	
200	100.3	105.5	104.8	102.4	98.7	94.1	93.5	91.5	89.1	87.2	85.9	85.8	86.1	87.2	88.0	87.9	86.7	78.3	58.3
250	98.1	103.3	102.6	100.2	96.5	91.9	91.3	89.2	86.9	84.9	83.6	83.5	83.7	84.9	85.7	85.7	84.5	76.1	56.1
315	95.8	101.1	100.4	97.9	94.2	89.5	89.1	87.0	84.6	82.5	81.2	81.2	81.3	82.5	83.5	83.4	82.3	73.9	53.9
400	93.5	98.8	98.1	95.6	91.8	87.2	86.7	84.6	82.2	80.0	78.8	78.8	78.8	80.0	81.1	81.2	80.0	71.6	51.6
500	91.2	96.5	95.8	93.3	89.4	84.8	84.4	82.2	79.8	77.5	76.3	76.2	76.2	77.5	78.7	78.8	77.7	69.2	49.2
630	88.7	94.0	93.4	90.8	86.8	82.2	81.9	79.7	77.3	74.8	73.7	73.6	73.5	74.9	76.2	76.4	75.3	66.7	46.7
800	86.2	91.5	90.9	88.3	84.2	79.6	79.3	77.1	74.7	72.0	70.9	70.9	70.7	72.1	73.6	73.9	72.8	64.2	44.2
1000	83.5	88.9	88.3	85.7	81.4	76.8	76.5	74.3	71.9	69.1	68.0	68.0	67.7	69.3	70.9	71.2	70.1	61.5	41.5
1250	80.7	86.1	85.5	82.9	78.5	73.9	73.8	71.4	69.0	66.1	65.0	65.0	64.6	66.3	68.0	68.5	67.4	58.7	39.7
1600	77.8	83.2	82.6	79.9	75.5	70.8	70.8	68.4	66.0	62.8	61.8	61.9	61.3	63.1	65.0	65.6	64.5	55.8	35.8
2000	74.6	80.0	79.5	76.8	72.2	67.6	67.6	65.2	62.7	59.4	58.4	58.5	57.9	59.8	61.8	62.5	61.4	52.6	32.6
2500	71.2	76.6	76.1	73.3	68.7	64.0	64.2	61.7	59.2	55.7	54.8	55.0	54.2	56.2	58.4	59.1	58.1	49.2	29.2
3150	67.4	72.9	72.4	69.6	64.9	60.2	60.5	57.9	55.5	51.8	50.9	51.1	50.3	52.4	54.6	55.3	54.5	45.5	25.5
4000	62.6	68.1	67.7	65.0	60.3	55.8	56.0	53.4	50.9	47.2	46.3	46.6	45.8	47.9	50.0	50.7	50.0	41.0	21.0
5000	57.6	62.9	62.6	59.9	55.3	50.8	51.1	48.4	45.8	42.1	41.4	41.6	40.9	43.0	44.9	45.6	45.0	36.1	16.1
6300	51.9	57.0	56.8	54.3	49.7	45.4	45.7	43.0	40.2	36.6	36.0	36.2	35.7	37.8	39.3	40.0	39.7	30.7	10.7
8000	45.5	50.4	50.5	48.1	43.6	39.5	39.7	37.0	34.2	30.9	30.6	30.8	30.6	32.5	33.5	34.5	34.5	25.3	5.3
10000	38.5	43.1	43.5	41.2	36.9	33.1	33.3	30.6	27.7	25.0	24.9	25.1	25.3	27.2	27.5	28.9	29.1	19.7	
12500	31.3	35.5	36.6	34.3	30.2	26.7	26.8	24.2	21.5	19.2	19.5	19.8	20.2	21.9	21.9	23.7	24.1	14.5	
16000	23.8	27.3	29.2	27.1	23.1	19.8	20.1	17.4	15.1	13.4	13.9	14.3	14.9	16.5	16.4	18.5	19.0	9.1	
20000	16.0	19.0	21.6	19.6	15.7	12.7	13.1	10.3	8.7	7.5	8.2	8.9	9.5	10.9	10.9	13.1	13.5	3.4	
25000	8.2	10.9	13.5	11.9	7.9	5.2	6.0	2.9	2.3	1.8	2.6	3.5	4.2	5.1	5.2	7.5	7.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

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( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
(
( DISTANCE = 250 FEET
(
( NOISE SOURCE/SUBJECT:
( F-111F AIRCRAFT
( ENG. TF30-P-100
( GROUND RUNUP
(
( OPERATION:
( IDLE, 65% RPM
( SINGLE ENGINE
(
( METEOROLOGY:
( TEMP = 59 F
( BAR PRESS = 29.92 IN HG
( REL HUMID = 70 %
( DELTA N = -3.0 DB
(
( IDENTIFICATION:
( OMEGA 8.2
( TEST 74-079-001
( RUN 01
( AIRCRAFT CODE 079
( OPERATION CODE 02013
( PROFILE VERSION A
( 06 APR 76
( PAGE J1

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ANGLE	NOISE LEVEL IN PNDB OR DBA										
	26	30	40	50	60	70	80	90	100	110	120
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (09)																				
1/3 OCTAVE BAND																				
DISTANCE = 250 FEET																				
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 079																				
( F-111F AIRCRAFT ) ) TEMP = 59 F ) OPERATION CODE 02019																				
( ENG. TF30-P-100 ) ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																				
( GROUND RUNUP ) ) REL HUMID = 70 % ) 06 APR 76																				
( ) ) DELTA N = -3.0 DB ) PAGE C2																				
BAND CENTER																				
FREQ (HZ)																				
ANGLE (DEGREES)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
(	50	73	72	75	76	75	76	75	76	77	79	81	83	88	92	93	92	82	72	)
(	63	73	75	76	76	75	77	78	80	79	81	82	86	91	96	97	93	83	73	)
(	80	76	77	79	80	79	81	81	83	81	82	85	88	93	98	100	95	85	75	)
(	100	78	79	81	84	83	83	83	84	86	87	88	90	96	100	104	100	90	80	)
(	125	79	80	82	82	79	81	83	85	85	87	88	90	94	97	103	99	89	79	)
(	160	82	83	83	81	80	82	84	86	86	87	89	91	94	96	101	100	90	80	)
(	200	82	82	83	80	80	81	81	84	83	86	87	89	92	95	95	96	86	76	)
(	250	82	82	82	82	80	81	83	84	83	83	83	86	89	93	91	92	82	72	)
(	315	80	82	82	80	80	79	79	80	77	79	80	83	87	89	91	89	79	69	)
(	400	80	81	81	81	77	76	76	77	75	76	79	80	84	86	87	85	75	65	)
(	500	80	79	81	80	75	76	75	76	75	74	79	78	83	84	85	83	73	63	)
(	630	80	79	81	80	76	77	77	77	76	76	79	78	82	82	83	81	71	61	)
(	800	79	78	81	79	76	77	76	76	76	76	78	77	81	80	82	78	68	58	)
(	1000	80	81	83	80	78	77	77	77	75	75	78	77	80	79	79	75	65	55	)
(	1250	86	86	86	83	83	81	80	80	77	75	76	76	78	77	77	74	64	54	)
(	1600	89	88	86	87	85	84	82	81	78	75	77	75	78	77	77	74	64	54	)
(	2000	88	87	88	87	84	83	81	80	77	77	77	76	78	77	76	73	63	53	)
(	2500	96	94	94	93	91	89	87	87	83	80	79	77	78	77	77	75	65	55	)
(	3150	99	98	98	97	96	93	92	92	89	86	85	81	82	81	82	80	70	60	)
(	4000	92	91	91	90	90	88	86	87	84	84	86	83	83	80	79	77	67	57	)
(	5000	92	90	90	88	88	86	84	84	80	79	78	77	76	75	74	73	63	53	)
(	6300	91	89	89	88	88	86	84	85	81	80	79	78	77	75	74	74	64	54	)
(	8000	86	85	84	83	83	80	79	80	77	77	75	75	75	73	72	71	61	51	)
(	10000	83	82	81	80	79	78	76	76	73	75	74	71	72	70	69	68	58	48	)
(	OVERALL	103	102	102	101	100	98	97	96	95	96	97	98	102	106	109	106	96	86	)

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:		ENGINE RUNUP, 80% RPM		SINGLE ENGINE		METEOROLOGY:		TEMP		BAR PRESS = 29.92 IN HG		PROFILE VERSION A						
	F-111F	AIRCRAFT	TEMP	REL HUMID = 70 %	DELTA N = -3.0 DB	OMEGA 8.2	TEST 74-079-001	RUN 02	AIRCRAFT CODE 079	OPERATION CODE 02019	06 APR 76	PAGE 02	IDENTIFICATION:						
(DISTANCE (FEET))	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
( 200	120.6	119.3	119.5	118.4	117.3	115.3	114.2	114.1	112.0	110.1	110.3	110.8	109.7	111.4	111.6	113.7	111.6	101.6	91.3
( 250	118.3	117.0	117.2	116.1	115.0	113.0	111.9	111.8	109.7	107.8	108.0	108.4	107.4	109.1	109.4	111.6	109.5	99.4	89.2
( 315	115.9	114.6	114.8	113.7	112.6	110.7	109.6	109.5	107.4	105.5	105.6	106.1	105.0	106.8	107.3	109.4	107.4	97.2	85.9
( 400	113.4	112.1	112.4	111.2	110.1	108.2	107.1	107.0	104.9	103.0	103.2	103.6	102.5	104.3	105.0	107.2	105.1	94.9	84.6
( 500	110.8	109.5	109.8	108.6	107.5	105.6	104.5	104.4	102.4	100.4	100.6	100.9	99.9	101.8	102.4	104.9	102.7	92.5	82.0
( 630	108.1	106.8	107.0	105.9	104.8	102.9	101.8	101.7	99.7	97.7	97.9	98.1	97.2	99.1	100.4	102.4	100.2	89.9	79.2
( 800	105.1	103.9	104.1	103.0	101.9	99.9	98.9	98.8	96.8	94.8	95.0	95.2	94.2	96.2	97.8	99.9	97.4	87.1	76.3
( 1000	100.8	100.8	101.0	99.9	98.7	96.8	95.7	95.6	93.7	91.6	91.8	92.1	91.0	93.2	94.9	97.0	94.6	84.1	73.2
( 1250	98.6	97.4	97.6	96.5	95.3	93.4	92.3	92.2	90.3	88.2	88.4	88.7	87.5	90.0	91.8	93.9	91.4	80.8	69.8
( 1600	94.9	93.7	93.9	92.8	91.6	89.7	88.6	88.5	86.6	84.5	84.7	85.0	83.8	86.3	88.3	90.5	88.0	77.1	66.1
( 2000	90.8	89.6	89.9	88.7	87.4	85.6	84.5	84.4	82.5	80.5	80.7	81.0	79.9	82.4	84.3	86.7	84.1	73.1	62.0
( 2500	86.2	85.0	85.4	84.2	82.8	81.0	80.0	79.8	78.0	75.9	76.1	76.6	75.4	78.1	79.7	82.1	79.6	68.7	57.2
( 3150	81.0	79.9	80.2	79.1	77.6	75.9	74.8	74.7	72.9	70.8	71.0	71.6	70.5	73.8	75.1	77.0	74.6	63.6	51.7
( 4000	75.7	74.3	74.7	73.7	71.7	70.0	69.0	68.8	67.1	64.9	65.1	65.8	65.4	69.0	70.2	71.5	69.2	58.3	45.8
( 5000	69.7	68.3	68.8	67.7	65.3	63.9	62.7	62.6	60.6	58.5	58.7	60.5	60.2	64.0	65.1	66.4	64.1	52.6	39.7
( 6300	63.0	61.6	62.1	61.1	58.6	57.5	56.5	55.9	54.3	52.4	52.5	55.0	54.5	58.5	59.7	61.1	58.7	46.5	30.8
( 8000	56.3	55.5	56.1	54.9	52.3	51.3	50.2	49.5	48.7	47.0	47.1	50.1	49.7	54.0	55.5	57.2	54.7	41.6	23.9
( 10000	49.4	48.4	49.1	47.5	44.3	43.4	42.7	42.7	42.8	41.0	41.3	44.5	44.3	49.1	51.1	52.8	50.1	36.4	15.1
( 12500	40.4	39.9	41.7	40.0	36.0	35.8	35.3	35.1	36.1	33.8	34.5	38.2	38.5	43.8	46.0	47.9	45.0	31.0	6.4
( 16000	32.5	31.9	34.1	32.3	26.0	26.6	26.1	27.2	27.7	24.5	25.9	31.2	31.8	37.6	40.2	42.5	39.8	22.3	
( 20000	21.8	19.7	24.0	22.0	12.4	13.9	12.0	14.0	14.7	10.8	10.2	20.1	21.4	30.9	33.9	36.8	33.9	7.1	
( 25000	7.8	7.5	9.9	7.6		1.1			1.7			8.9	11.0	19.1	24.2	30.8	26.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT AIRCRAFT ENG. TF30-P-100 GROUND RUNUP	OPERATION: ENGINE RUNUP, 80% RPM SINGLE ENGINE			METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB			ANGLE (DEGREES)			IDENTIFICATION: OMEGA 8.2 TEST 74-079-001 RUN 02 AIRCRAFT CODE 079 OPERATION CODE 02019 PROFILE VERSION A 05 APR 76 PAGE E2									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160		
200	122.6	121.3	121.3	120.2	119.2	117.1	116.1	115.8	113.8	111.4	111.5	112.3	111.2	112.7	111.6	114.8	112.9	102.8	92.6
315	120.3	119.0	117.9	116.9	114.8	113.8	113.5	111.5	109.1	109.2	110.0	108.9	110.5	109.4	112.7	110.8	100.6	90.4	88.2
400	115.4	114.1	114.2	113.1	112.1	109.9	108.9	108.7	106.7	104.3	104.4	105.1	104.0	105.7	105.0	108.4	106.4	96.2	85.8
500	112.8	111.5	111.6	110.5	109.5	107.3	106.4	106.1	104.1	101.7	101.8	102.5	101.4	103.2	102.8	106.1	103.9	93.7	83.2
630	110.1	108.8	108.9	107.7	106.7	104.6	103.6	103.4	101.4	99.0	99.1	99.7	98.7	100.5	100.4	103.6	101.4	91.1	80.5
800	107.2	105.9	106.0	104.8	103.8	101.7	100.7	100.5	98.5	96.1	96.2	96.7	95.7	97.6	97.6	101.0	98.7	88.4	77.5
1000	104.0	102.8	102.9	101.7	100.7	98.6	97.6	97.3	95.4	92.9	93.0	93.6	92.5	94.6	94.9	98.2	95.8	85.4	74.5
1250	100.6	99.4	99.5	98.3	97.2	95.2	94.2	93.9	92.0	89.5	89.7	90.3	89.0	91.3	91.8	95.1	92.6	82.0	71.1
1600	96.9	95.6	95.8	94.6	93.5	91.4	90.5	90.2	88.3	85.8	85.9	86.6	85.3	87.7	88.3	91.6	89.2	78.4	67.4
2000	92.8	91.6	91.7	90.6	89.4	87.4	86.4	86.1	84.3	81.7	81.9	82.6	81.4	83.8	84.3	87.9	85.3	74.4	63.2
2500	88.2	87.0	87.2	86.0	84.8	82.8	81.8	81.6	79.8	77.2	77.3	78.1	76.9	79.5	79.7	83.3	80.8	69.9	58.4
3150	83.1	81.9	82.1	80.9	79.6	77.6	76.7	76.4	74.7	72.1	72.2	73.1	72.0	75.1	75.1	78.1	75.8	64.8	53.0
4000	77.3	75.9	76.2	75.2	73.3	71.4	70.4	70.2	68.5	66.0	66.1	67.1	66.6	70.1	70.2	72.4	70.2	59.3	46.8
5000	70.9	69.5	69.9	68.9	66.5	65.0	63.8	63.6	61.7	59.3	59.4	61.5	61.1	64.8	65.1	67.1	64.9	53.4	40.4
6300	63.8	62.4	62.9	61.8	59.3	58.2	57.2	56.6	55.0	52.9	53.0	55.7	55.1	59.0	59.7	61.6	59.2	47.0	31.3
8000	56.7	55.9	56.5	55.3	52.7	51.7	50.6	49.9	49.1	47.3	47.3	50.4	50.0	54.3	55.5	57.4	54.9	41.9	24.1
10000	49.4	48.4	49.1	47.5	44.3	43.4	42.7	42.7	42.3	41.0	41.3	44.5	44.3	49.1	51.1	52.8	50.1	36.4	15.1
12500	40.4	39.9	41.7	40.0	36.0	35.8	35.3	35.1	36.1	33.8	34.5	38.2	38.5	43.8	46.0	47.9	45.0	31.0	6.4
16000	32.5	31.9	34.1	32.3	26.0	26.6	26.1	27.2	27.7	24.5	25.9	31.2	31.8	37.6	40.2	42.5	39.8	22.3	
20000	21.8	19.7	24.0	22.0	12.4	13.9	12.0	14.0	14.7	10.8	10.2	20.1	21.4	30.9	33.9	36.8	33.9	7.1	
25000	7.8	7.5	9.9	7.8	1.1	1.1	.7	.7	1.7			8.9	11.0	19.1	24.2	30.8	26.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT  
 ENG. TF30-P-100  
 GROUND RUNUP

OPERATION: ENGINE RUNUP, 80% RPM  
 SINGLE ENGINE

METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DB

IDENTIFICATION: OMEGA 8.2  
 TEST 74-079-001  
 RUN 02  
 AIRCRAFT CODE 079  
 OPERATION CODE 02019  
 PROFILE VERSION A  
 06 APR 76  
 PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	106.1	104.6	104.7	103.6	102.4	100.3	98.8	98.7	96.0	94.3	94.5	94.6	93.2	95.1	95.7	97.3	95.7	85.7	75.7
250	103.8	102.3	102.4	101.3	100.1	98.0	96.5	96.4	93.7	91.9	92.1	92.3	90.9	92.9	93.6	95.3	93.6	83.6	73.6
315	101.5	99.9	100.0	98.9	97.7	95.6	94.1	94.0	91.4	89.5	89.7	90.0	88.6	90.7	91.5	93.2	91.5	81.5	71.5
400	99.0	97.4	97.6	96.4	95.2	93.1	91.7	91.5	88.9	87.1	87.3	87.5	86.3	88.5	89.3	91.0	89.4	79.4	69.4
500	96.4	94.9	95.0	93.9	92.6	90.5	89.1	89.0	86.4	84.5	84.7	85.0	83.8	86.1	87.0	88.8	87.1	77.1	67.1
630	93.7	92.2	92.4	91.2	89.9	87.8	86.4	86.2	83.7	81.8	82.0	82.4	81.3	83.7	84.6	86.4	84.7	74.7	64.7
800	90.9	89.4	89.5	88.4	87.0	85.0	83.6	83.4	80.9	78.9	79.1	79.6	78.6	81.1	82.1	83.9	82.1	72.1	62.1
1000	87.9	86.4	86.6	85.4	84.0	82.0	80.6	80.3	78.0	75.9	76.1	76.8	75.8	78.5	79.5	81.3	79.5	69.5	59.5
1250	84.7	83.2	83.4	82.3	80.7	78.8	77.4	77.1	74.8	72.8	73.0	73.7	72.9	75.7	76.7	78.4	76.6	66.6	56.6
1600	81.2	79.7	80.0	78.8	77.2	75.3	73.9	73.7	71.4	69.4	69.6	70.6	69.8	72.8	73.7	75.4	73.5	63.5	53.5
2000	77.4	76.0	76.3	75.2	73.4	71.6	70.3	70.0	67.9	65.9	66.1	67.3	66.6	69.6	70.6	72.2	70.2	60.2	50.2
2500	73.3	72.0	72.4	71.2	69.3	67.7	66.3	66.1	64.1	62.2	62.3	63.9	63.2	66.5	67.2	68.6	66.6	56.6	46.6
3150	68.9	67.7	68.1	66.9	64.9	63.4	62.1	61.9	60.2	58.4	58.4	60.3	59.6	62.9	63.5	64.8	62.7	52.7	42.7
4000	64.2	63.0	63.6	62.3	60.1	58.9	57.7	57.4	55.9	54.3	54.3	56.4	55.7	59.1	59.4	60.6	58.4	48.4	38.4
5000	59.0	58.1	58.8	57.3	55.1	54.1	52.9	52.7	51.5	49.9	49.9	52.2	51.4	54.9	55.1	56.2	53.9	43.9	33.9
6300	53.6	52.8	53.7	52.1	49.9	49.1	47.9	47.8	46.8	45.3	45.3	47.7	47.0	50.5	50.6	51.7	49.4	39.4	29.4
8000	48.2	47.5	48.6	46.9	44.6	44.1	43.1	43.1	42.4	41.1	41.1	43.7	43.0	46.6	47.0	48.3	46.0	36.0	26.0
10000	42.6	42.0	43.4	41.7	39.1	38.8	38.0	38.2	37.8	36.6	36.6	39.3	38.8	42.5	43.2	44.6	42.5	32.5	22.5
12500	36.8	36.3	37.8	36.2	33.4	33.4	32.7	33.0	33.0	31.8	31.8	34.7	34.4	38.2	39.1	40.8	39.7	28.7	18.7
16000	30.8	30.4	32.0	30.6	27.5	27.7	27.2	27.6	27.8	26.6	26.8	29.7	29.7	33.5	33.5	36.9	34.9	24.9	14.9
20000	24.7	24.3	26.0	24.8	21.4	21.7	21.5	22.0	22.4	21.3	21.7	24.4	24.8	28.7	30.7	33.0	31.0	21.0	11.0
25000	18.3	18.0	19.6	18.6	15.3	15.6	15.6	16.2	16.9	15.9	16.6	19.0	19.9	23.9	25.5	29.2	27.0	17.0	7.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	108.2	106.6	106.5	105.4	104.3	102.0	100.7	100.4	97.8	95.6	95.7	96.2	94.7	96.5	95.7	98.5	96.9	86.9	76.9
250	105.8	104.3	104.3	103.1	102.0	99.7	98.4	98.1	95.5	93.2	93.4	93.9	92.4	94.3	93.6	96.4	94.9	84.9	74.9
315	103.5	101.9	101.9	100.7	99.6	97.3	96.0	95.7	93.2	90.8	91.0	91.5	90.2	92.1	91.5	94.3	92.8	82.8	72.8
400	101.0	99.4	99.4	98.3	97.1	94.9	93.5	93.3	90.7	88.4	88.5	89.1	87.8	89.9	89.3	92.2	90.6	80.6	70.6
500	98.4	96.9	96.9	95.7	94.5	92.3	91.0	90.7	88.2	85.8	85.9	86.6	85.3	87.5	87.0	89.9	88.3	78.3	68.3
630	95.8	94.2	94.2	93.1	91.9	89.7	88.3	88.0	85.5	83.1	83.2	83.9	82.8	85.1	84.6	87.5	85.9	75.9	65.9
800	92.9	91.4	91.4	90.3	89.0	86.8	85.4	85.1	82.7	80.2	80.4	81.2	80.1	82.5	82.1	85.1	83.4	73.4	63.4
1000	89.9	88.4	88.4	87.3	85.9	83.7	82.4	82.1	79.7	77.2	77.4	78.3	77.3	79.9	79.5	82.4	80.7	70.7	60.7
1250	86.7	85.2	85.2	84.1	82.6	80.5	79.2	78.8	76.6	74.1	74.2	75.3	74.4	77.1	76.7	79.5	77.8	67.8	57.8
1600	83.2	81.7	81.7	80.7	79.1	77.1	75.8	75.4	73.2	70.7	70.8	72.1	71.3	74.2	73.7	76.5	74.7	64.7	54.7
2000	79.4	78.0	78.2	77.0	75.3	73.4	72.1	71.7	69.7	67.2	67.3	68.9	68.2	71.1	70.6	73.3	71.5	61.5	51.5
2500	75.4	74.0	74.2	73.0	71.2	69.4	68.2	67.8	65.9	63.5	63.5	65.4	64.7	67.8	67.2	69.8	67.9	57.9	47.9
3150	70.9	69.7	70.0	68.8	66.8	65.2	64.0	63.6	61.9	59.7	59.6	61.8	61.1	64.3	63.5	65.9	63.9	53.9	43.9
4000	65.8	64.6	65.1	63.8	61.7	60.3	59.1	58.8	57.4	55.3	55.3	57.6	56.9	60.2	59.4	61.5	59.4	49.4	39.4
5000	60.2	59.3	59.9	58.4	56.3	55.2	54.0	53.7	52.5	50.7	50.7	53.1	52.4	55.7	55.1	56.9	54.7	44.7	34.7
6300	54.4	53.6	54.4	52.8	50.7	49.8	48.7	48.5	47.5	45.8	45.8	48.4	47.6	51.0	50.6	52.2	49.9	39.9	29.9
8000	48.6	47.9	49.0	47.3	45.0	44.4	43.4	43.4	42.8	41.1	41.3	44.0	43.3	46.9	47.0	48.5	46.2	36.2	26.2
10000	42.5	42.0	43.4	41.7	39.1	38.8	38.0	38.2	37.8	36.6	36.6	39.3	38.8	42.5	43.2	44.6	42.5	32.5	22.5
12500	36.8	36.3	37.8	36.2	33.4	33.4	32.7	33.0	33.0	31.8	31.8	34.7	34.4	38.2	39.1	40.8	38.7	28.7	18.7
16000	30.8	30.4	32.0	30.6	27.5	27.7	27.2	27.6	27.8	26.6	26.8	29.7	29.7	33.5	35.0	36.9	34.9	24.9	14.9
20000	24.7	24.3	26.0	24.8	21.4	21.7	21.5	22.0	22.4	21.3	21.7	24.4	24.8	28.7	30.7	33.0	31.0	21.0	11.0
25000	18.3	18.0	19.6	18.6	15.3	15.6	15.6	16.2	16.9	15.9	16.6	19.3	19.9	23.9	26.5	29.2	27.0	17.0	7.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-111F AIRCRAFT  
 ENG. TF30-P-100  
 GROUND RUNUP  
 OPERATIONS: ENGINE RUNUP, 80% RPM  
 SINGLE ENGINE  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 70 %  
 DELTA N = -3.0 DB  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-079-031  
 RUN 02  
 AIRCRAFT CODE 079  
 OPERATION CODE 02019  
 PROFILE VERSION A  
 06 APR 76  
 PAGE J2

ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA												
	30	40	50	60	70	80	90	100	110	120	130		
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													
>170													
>180													

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 079																			
F-111F AIRCRAFT ( ENGINE RUNUP, 85% RPM ) TEMP = 59 F ) OPERATION CODE 01018																			
ENG. TF30-P-100 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG : PROFILE VERSION A																			
GROUND RUNUP ( REL HUMID = 70 % ) 06 APR 76																			
( DELTA N = 0.0 DB ) PAGE 03																			
BAND CENTER																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	74	78	76	77	77	78	79	79	81	81	84	86	90	94	100	103	101	91	81
63	77	79	79	80	80	80	81	81	81	84	85	89	93	98	105	107	102	92	82
80	79	82	83	83	83	84	85	83	84	85	87	91	95	100	107	110	104	94	84
100	81	84	86	85	85	86	87	86	87	89	91	95	99	103	110	114	107	97	87
125	82	85	86	86	86	86	86	86	88	89	91	96	99	103	107	114	109	99	89
160	85	88	88	86	85	85	86	87	90	92	94	97	102	106	107	115	112	102	92
200	85	88	86	87	85	85	86	87	87	89	93	95	100	105	109	110	109	99	89
250	85	87	88	88	88	87	87	87	87	88	90	93	96	101	107	102	106	96	86
315	84	88	89	89	85	88	88	85	85	86	88	92	96	99	102	105	100	90	80
400	85	87	88	87	84	83	84	80	81	84	85	91	94	96	98	103	96	86	76
500	85	85	86	86	86	83	83	80	82	84	83	91	92	94	97	99	92	82	72
630	85	85	86	86	83	82	83	81	82	86	85	92	92	92	94	97	89	79	69
800	84	85	86	85	82	83	82	81	83	86	86	92	91	92	92	94	87	77	67
1000	85	86	86	85	83	83	82	81	82	85	86	90	90	91	91	93	85	75	65
1250	85	87	86	85	84	84	82	81	81	84	85	89	89	89	89	90	83	73	63
1600	93	91	89	88	86	85	84	82	82	85	86	90	89	89	88	89	82	72	62
2000	98	92	89	88	85	86	83	84	84	86	86	90	88	87	88	87	82	72	62
2500	92	92	91	90	87	87	84	84	83	84	86	88	87	85	85	84	79	69	59
3150	99	99	99	98	96	94	91	92	89	88	88	90	88	86	87	86	83	73	63
4000	96	96	96	95	94	94	91	94	91	89	90	91	89	86	87	86	83	73	63
5000	90	90	90	89	88	88	86	86	85	85	88	85	85	83	83	81	77	67	57
6300	89	90	89	88	87	86	83	86	83	83	85	85	83	81	82	80	75	65	55
8000	84	85	85	84	83	83	80	84	81	82	81	84	81	79	80	79	74	64	54
10000	81	82	81	81	80	79	76	80	78	79	78	81	79	77	77	76	71	61	51
OVERALL	104	104	103	103	101	101	99	100	99	100	102	105	108	112	117	121	117	107	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PN08)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	( OPERATION: )																			
	ENGINE RUNUP, 85% RPM																			
F-111F AIRCRAFT	TEMP = 59 F																			
ENG. TF30-P-100	BAR PRESS = 29.92 IN HG																			
GROUND RUNUP	REL HUMID = 70 %																			
	DELTA N = 9.0 DB																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-079-001																				
RUN 03																				
AIRCRAFT CODE 079																				
OPERATION CODE 01018																				
PROFILE VERSION A																				
06 APR 76																				
PAGE 03																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 9.0 DB																				
ANGLE (DEGREES)																				
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	120.5	121.5	120.9	120.4	118.3	117.6	115.4	116.7	115.2	115.2	115.9	118.7	118.3	119.7	122.7	125.4	121.4	111.3	101.2	
250	118.3	119.2	118.6	118.1	116.0	115.2	113.1	114.4	112.8	112.9	113.6	116.4	116.0	117.6	120.6	123.3	119.3	109.3	99.1	
315	115.9	116.8	116.2	115.7	113.6	112.9	110.8	111.9	110.4	110.5	111.2	114.0	113.7	115.4	118.4	121.2	117.2	107.2	97.0	
400	113.4	114.4	113.8	113.3	111.2	110.4	108.4	109.4	107.9	108.0	109.7	111.5	111.3	113.2	116.2	119.0	115.0	104.9	94.7	
500	110.9	111.8	111.2	110.7	108.6	107.9	105.8	106.7	105.3	105.4	106.1	109.0	108.8	110.8	113.8	116.7	112.6	102.5	92.3	
630	108.2	109.1	108.5	108.0	105.9	105.1	103.1	103.9	102.4	102.6	103.3	106.3	106.1	108.3	111.3	114.2	110.1	100.0	89.7	
800	105.3	106.2	105.7	105.2	103.0	102.3	100.2	100.8	99.4	99.7	100.4	103.4	103.4	105.6	108.7	111.6	107.5	97.3	87.0	
1000	102.2	103.1	102.6	102.1	99.9	99.1	97.2	97.5	96.2	96.6	97.2	100.3	100.5	102.8	105.9	108.8	104.7	94.5	84.1	
1250	98.9	99.8	99.2	98.7	96.5	95.8	93.8	93.9	92.7	93.3	93.9	97.1	97.3	99.7	102.8	105.8	101.6	91.4	80.8	
1500	95.3	96.1	95.6	95.0	92.8	92.1	90.2	90.2	89.0	89.7	90.3	93.6	94.1	96.3	99.5	102.5	98.2	87.9	77.2	
2000	91.7	92.1	91.5	91.0	88.7	88.1	86.2	86.1	85.0	85.7	86.4	90.0	90.8	92.8	95.8	98.9	94.5	84.1	73.2	
2500	87.8	87.6	87.1	86.5	84.2	83.6	81.7	81.6	80.5	81.4	82.2	86.1	86.9	88.8	91.7	94.8	90.3	79.7	68.7	
3150	83.4	82.6	82.0	81.5	79.1	78.5	76.7	76.5	75.5	76.9	77.8	81.8	82.6	84.4	87.2	90.3	85.6	74.7	63.6	
4000	78.6	76.9	76.3	75.7	73.3	72.7	71.0	70.7	70.0	72.1	72.9	77.4	78.1	79.5	82.4	85.2	79.9	69.0	57.8	
5000	73.2	70.9	70.0	69.3	66.9	66.8	65.5	64.4	64.5	67.0	67.8	72.6	73.2	74.6	77.5	80.0	74.6	63.5	51.7	
6300	67.2	65.3	64.2	63.3	60.9	61.0	59.8	58.3	59.0	61.8	62.2	67.5	68.1	69.5	72.4	75.0	69.1	57.9	45.5	
8000	60.8	59.5	58.8	57.9	55.3	55.4	54.4	53.0	54.1	57.0	57.5	62.9	63.9	65.7	68.7	71.4	65.7	54.1	40.9	
10000	53.6	53.2	53.6	52.7	49.4	49.4	49.2	47.2	48.7	51.8	52.3	58.3	59.5	61.5	64.8	67.6	62.1	50.1	36.1	
12500	46.1	46.8	47.6	46.9	43.1	43.2	43.0	40.7	42.4	46.2	45.4	53.0	54.6	57.0	60.5	63.5	58.4	45.4	30.1	
16000	39.2	40.2	41.1	40.4	36.3	36.3	36.4	33.4	35.6	39.3	38.8	47.2	49.5	52.1	55.9	59.4	54.3	40.7	22.1	
20000	33.5	32.4	33.5	33.0	28.3	29.3	28.6	24.0	26.9	32.0	32.1	40.4	43.0	46.0	50.4	55.2	49.9	35.0	11.6	
25000	19.5	21.5	24.2	23.1	16.1	16.9	17.1	7.8	12.9	18.8	21.5	32.7	36.0	39.5	44.4	50.3	44.0	28.9	1.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECTS	OPERATION:																			
	ENGINE RUNUP, 85% RPM																			
F-111F AIRCRAFT	SINGLE ENGINE																			
	TEMP = 59 F																			
ENG. TF30-P-100	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
GROUND RUNUP	DELTA N = 0.0 03																			
	METEOROLOGY:																			
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-079-001																				
RUN 03																				
AIRCRAFT CODE 079																				
OPERATION CODE 01018																				
PROFILE VERSION A																				
06 APR 76																				
PAGE E3																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	123.2	122.5	122.3	122.0	119.9	118.8	116.7	118.4	116.8	116.3	117.0	118.7	118.3	119.7	123.2	126.4	121.4	111.3	101.2	
250	120.9	120.2	120.0	117.6	116.5	114.4	116.4	116.0	114.5	114.0	114.7	116.4	116.0	117.6	121.1	124.3	119.3	109.3	99.1	
315	117.8	118.6	118.0	117.7	115.3	114.2	112.0	113.6	112.1	111.6	112.3	114.0	113.7	115.4	118.9	122.2	117.2	107.2	97.0	
400	115.4	116.1	115.5	115.2	112.8	111.7	109.6	111.1	109.6	109.1	109.8	111.6	111.3	113.2	116.7	120.0	115.0	104.9	94.7	
500	112.8	113.6	113.0	112.7	110.3	109.2	107.0	108.4	106.9	106.5	107.2	109.7	108.8	110.8	114.3	117.7	112.6	102.5	92.3	
630	110.1	110.8	110.3	110.0	107.5	106.4	104.3	105.5	104.1	103.7	104.4	106.3	106.1	108.3	111.8	115.2	110.1	100.0	89.7	
800	107.2	108.0	107.4	107.1	104.6	103.5	101.5	102.5	101.1	100.8	101.5	103.4	103.4	105.6	109.2	112.6	107.5	97.3	87.0	
1000	104.1	104.9	104.3	104.0	101.5	100.4	98.4	99.1	97.8	97.7	98.3	100.3	100.5	102.8	106.4	109.8	104.7	94.5	84.1	
1250	100.8	101.5	100.9	100.6	98.1	97.1	95.0	95.6	94.3	94.4	95.0	97.1	97.3	99.7	103.3	106.8	101.6	91.4	80.8	
1500	97.2	97.9	97.3	97.0	94.5	93.4	91.4	91.9	90.7	90.7	91.4	93.6	94.1	96.3	100.0	103.5	98.2	87.9	77.2	
2000	93.6	93.8	93.3	92.9	90.4	89.3	87.4	87.8	86.7	86.8	87.5	90.0	90.8	92.8	96.3	99.9	94.5	84.1	73.2	
2500	89.7	89.4	88.8	88.4	85.9	84.8	82.9	83.3	82.2	82.5	83.3	86.1	86.9	88.8	92.2	95.8	90.3	79.7	68.7	
3150	85.3	84.3	83.8	83.4	80.8	79.8	77.9	78.1	77.2	77.3	78.9	81.8	82.6	84.4	87.7	91.3	85.6	74.7	63.6	
4000	80.1	78.3	77.7	77.3	74.7	73.8	72.0	72.0	71.3	71.3	73.8	77.4	78.1	79.5	82.8	86.0	79.9	69.0	57.8	
5000	74.3	72.0	71.0	70.5	67.9	67.6	66.2	65.4	65.5	67.7	68.4	72.6	73.2	74.6	77.8	80.6	74.6	63.5	51.7	
6300	68.0	66.0	64.9	64.1	61.6	61.5	60.3	58.9	59.7	62.2	62.6	67.5	68.1	69.5	72.6	75.4	69.1	57.9	45.5	
8000	61.2	59.8	59.1	58.2	55.6	55.6	54.7	53.3	54.4	57.2	57.7	62.9	63.9	65.7	68.8	71.6	65.7	54.1	40.9	
10000	53.6	53.2	53.6	52.7	49.4	49.4	49.2	47.2	48.7	51.8	52.3	58.3	59.5	61.5	64.8	67.6	62.1	50.1	36.1	
12500	46.1	46.8	47.6	46.9	43.1	43.2	43.0	40.7	42.4	46.2	46.4	53.0	54.6	57.0	60.5	63.5	58.4	45.4	30.1	
16000	39.2	40.2	41.1	40.4	36.3	36.3	36.4	33.4	35.6	39.3	39.8	47.2	49.5	52.1	55.9	59.4	54.3	40.7	22.1	
20000	30.5	32.4	33.5	33.0	28.3	28.3	28.6	24.0	26.9	32.0	32.1	40.4	43.0	46.0	50.4	55.2	49.9	35.0	11.6	
25000	19.5	21.5	24.2	23.1	16.1	16.9	17.1	7.8	12.9	18.8	21.5	32.7	36.0	39.5	44.4	50.3	44.8	28.9	1.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D3A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	106.7	106.4	105.7	105.1	103.2	102.6	100.1	101.2	99.3	99.8	100.3	103.6	103.5	104.9	107.5	110.1	106.5	96.5	86.5
250	104.4	104.1	103.4	102.8	100.9	100.3	97.8	98.9	97.0	97.5	98.0	101.4	101.4	102.8	105.5	108.0	104.5	94.5	84.5
315	102.1	101.7	101.0	100.5	98.5	97.9	95.5	96.4	94.6	95.2	95.7	99.2	99.2	100.7	103.4	106.0	102.4	92.4	82.4
400	99.7	99.3	98.6	98.0	96.0	95.4	93.0	93.9	92.2	92.8	93.4	96.9	97.0	98.5	101.3	103.9	100.3	90.3	80.3
500	97.2	96.8	96.0	95.4	93.4	92.8	90.5	91.3	89.6	90.4	90.9	94.6	94.7	96.3	99.0	101.6	98.0	88.0	78.0
630	94.6	94.1	93.3	92.7	90.7	90.1	87.8	88.5	87.0	87.8	88.4	92.1	92.3	94.0	96.7	99.3	95.5	85.5	75.5
800	91.9	91.3	90.5	89.9	87.8	87.3	85.0	85.5	84.2	85.2	85.8	89.6	89.9	91.5	94.2	96.8	93.0	83.0	73.0
1000	89.0	88.3	87.6	86.9	84.8	84.2	82.1	82.4	81.2	82.5	83.1	87.1	87.4	89.0	91.6	94.3	90.3	80.3	70.3
1250	86.0	85.2	84.4	83.7	81.5	81.0	79.0	79.1	78.1	79.6	80.2	84.4	84.8	86.3	88.9	91.5	87.3	77.3	67.3
1600	82.8	81.9	81.0	80.3	78.1	77.6	75.8	75.6	74.9	76.7	77.2	81.6	82.0	83.5	85.9	88.7	84.2	74.2	64.2
2000	79.3	78.3	77.5	76.7	74.4	74.0	72.4	71.9	71.5	73.6	74.1	78.7	79.2	80.6	82.9	85.7	80.8	70.8	60.8
2500	75.6	74.5	73.7	72.9	70.5	70.2	68.8	68.0	68.0	70.4	70.8	75.7	76.0	77.3	79.5	82.2	77.0	67.0	57.0
3150	71.6	70.4	69.8	68.9	66.5	66.3	65.0	64.0	64.3	67.0	67.3	72.4	72.7	73.8	75.7	78.4	72.8	62.8	52.8
4000	67.3	66.1	65.6	64.6	62.2	62.1	61.0	59.8	60.5	63.3	63.6	68.9	69.0	69.9	71.7	74.2	68.3	58.3	48.3
5000	62.5	61.5	61.1	60.1	57.7	57.7	56.7	55.4	56.2	59.2	59.2	64.7	64.8	65.7	67.3	69.8	63.7	53.7	43.7
6300	57.3	56.6	56.4	55.4	53.0	53.0	52.1	50.7	51.8	54.8	55.0	60.3	60.4	61.3	62.9	65.2	59.1	49.1	39.1
8000	52.0	51.8	52.0	51.0	48.5	48.5	47.8	46.3	47.5	50.6	50.7	56.3	56.5	57.5	59.3	61.8	55.8	45.8	35.8
10000	46.5	46.8	47.4	46.4	43.8	43.8	43.3	41.7	43.0	46.1	46.1	51.9	52.3	53.4	55.5	58.2	52.4	42.4	32.4
12500	40.9	41.6	42.5	41.6	38.8	38.8	38.5	36.8	38.2	41.2	41.1	47.0	47.7	49.1	51.5	54.3	48.9	38.9	28.9
16000	35.2	36.0	37.2	36.3	33.4	33.4	33.3	31.5	32.9	35.8	35.8	41.8	42.8	44.5	47.2	50.3	45.3	35.3	25.3
20000	29.3	30.2	31.5	30.7	27.7	27.8	27.9	25.9	27.3	30.1	30.3	36.1	37.6	39.8	42.9	46.1	41.5	31.5	21.5
25000	23.0	24.1	25.3	24.7	21.7	21.8	22.1	20.2	21.5	24.0	24.6	30.1	32.1	34.9	38.4	41.9	37.7	27.7	17.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)  
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT  
ENG. YF30-P-100  
GROUND RUNUP

( OPERATIONS )  
( ENGINE RUNUP, 85% RPM )  
( SINGLE ENGINE )

METEOROLOGY:  
TEMP = 59 F  
BAR PRESS = 29.92 IN HG  
REL HUMID = 70 %  
DELTA N = 0.0 DB

IDENTIFICATION:  
OMEGA 8.2  
TEST 74-079-001  
RUN 03  
AIRCRAFT CODE 079  
OPERATION CODE 01018  
PROFILE VERSION A  
06 APR 76  
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	108.6	106.2	107.4	107.0	104.9	103.9	101.4	102.9	101.0	100.9	101.4	103.6	103.5	104.9	108.0	111.1	106.5	96.5	86.5
250	106.3	105.9	105.1	104.7	102.6	101.6	99.1	100.5	98.7	98.6	99.1	101.4	101.4	102.8	106.0	109.0	104.5	94.5	84.5
315	104.0	103.5	102.8	102.4	100.2	99.2	96.7	98.1	96.3	96.3	96.8	99.2	99.2	100.7	103.9	107.0	102.4	92.4	82.4
400	101.6	101.1	100.3	99.9	97.7	96.7	94.3	95.6	93.8	93.9	94.5	96.9	97.0	98.5	101.8	104.9	100.3	90.3	80.3
500	99.1	98.5	97.8	97.4	95.1	94.1	91.7	92.9	91.3	91.5	92.1	94.6	94.7	96.3	99.5	102.6	98.0	88.0	78.0
630	96.5	95.9	95.1	94.7	92.4	91.4	89.1	90.1	88.6	88.9	89.5	92.1	92.3	94.0	97.2	100.3	95.5	85.5	75.5
800	93.8	93.1	92.3	91.8	89.5	88.5	86.3	87.2	85.8	86.3	86.9	89.6	89.9	91.5	94.7	97.8	93.0	83.0	73.0
1000	90.9	90.1	89.3	88.8	86.5	85.5	83.3	84.1	82.9	83.6	84.2	87.1	87.4	89.0	92.1	95.3	90.3	80.3	70.3
1250	87.9	87.0	86.1	85.6	83.2	82.3	80.2	80.8	79.8	80.7	81.3	84.4	84.8	86.3	89.4	92.5	87.3	77.3	67.3
1600	84.7	83.6	82.8	82.3	79.7	78.9	77.0	77.3	76.5	77.8	78.3	81.6	82.0	83.5	86.4	89.7	84.2	74.2	64.2
2000	81.2	80.0	79.2	78.7	76.1	75.3	73.6	73.6	73.2	74.7	75.2	78.7	79.2	80.6	83.4	86.7	80.8	70.8	60.8
2500	77.6	76.2	75.5	74.8	72.2	71.5	70.0	69.7	69.7	71.5	71.9	75.7	76.0	77.3	80.0	83.2	77.0	67.0	57.0
3150	73.6	72.2	71.5	70.8	68.1	67.6	66.2	65.7	66.0	68.1	68.4	72.4	72.7	73.8	76.2	79.4	72.8	62.8	52.8
4000	68.9	67.5	67.0	66.2	63.5	63.2	62.0	61.2	61.8	64.2	64.5	68.8	69.0	69.9	72.1	75.0	68.3	58.3	48.3
5000	63.7	62.6	62.2	61.2	58.7	58.5	57.4	56.4	57.2	59.9	60.1	64.7	64.8	65.7	67.6	70.4	63.7	53.7	43.7
6300	58.1	57.3	57.1	56.1	53.6	53.5	52.6	51.4	52.4	55.2	55.4	60.3	60.4	61.3	63.1	65.6	59.1	49.1	39.1
8000	52.4	52.2	52.4	51.4	48.8	48.8	48.0	46.7	47.9	50.8	50.9	56.3	56.5	57.5	59.4	62.0	55.8	45.8	35.8
10000	46.5	46.0	47.4	46.4	43.8	43.8	43.3	41.7	43.0	46.1	46.1	51.9	52.3	53.4	55.5	58.2	52.4	42.4	32.4
12500	40.9	41.6	42.5	41.6	38.8	38.8	38.5	36.8	38.2	41.2	41.1	47.0	47.7	49.1	51.5	54.3	48.9	38.9	28.9
16000	35.2	36.0	37.2	36.3	33.4	33.4	33.3	31.5	32.9	35.8	35.8	41.8	42.8	44.5	47.2	50.3	45.3	35.3	25.3
20000	29.3	30.2	31.5	30.7	27.7	27.8	27.9	25.9	27.3	30.1	30.3	36.1	37.6	39.8	42.9	46.1	41.5	31.5	21.5
25000	23.0	24.1	25.3	24.7	21.7	21.8	22.1	20.2	21.5	24.0	24.6	30.1	32.1	34.9	38.4	41.9	37.7	27.7	17.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-111F AIRCRAFT  
 ENG. TF30-P-100  
 GROUND RUNUP  
 OPERATION: ENGINE RUNUP, 85% RPM  
 SINGLE ENGINE  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 79 %  
 DELTA N = 9.0 09  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-079-001  
 RUN 03  
 AIRCRAFT CODE 079  
 OPERATION CODE 01018  
 PROFILE VERSION A  
 06 APR 76  
 PAGE J3

ANGLE	NOISE LEVEL IN PNDB OR DBA												
	30	40	50	60	70	80	90	100	110	120	130		
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													
>170													
>180													

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 079																			
F-111F AIRCRAFT ( MILITARY POWER, 95% RPM ) TEMP = 59 F ) OPERATION CODE 01004																			
ENG. TF30-P-100 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( REL HUMID = 70 % ) 06 APR 76																			
( DELTA N = 0.0 DB ) PAGE 04																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	78	78	79	81	81	81	85	83	88	89	91	92	99	104	110	112	108	98	88
63	80	81	84	84	84	84	86	87	89	90	92	96	101	107	114	115	110	100	90
80	84	84	87	86	87	88	89	90	91	92	94	98	102	110	116	119	113	103	93
100	86	88	89	89	88	90	90	91	94	96	98	101	106	113	120	122	116	106	96
125	87	90	91	91	89	90	91	92	95	97	98	101	108	113	116	122	118	108	98
160	92	93	93	92	91	91	92	94	96	98	100	103	111	117	117	124	119	109	99
200	91	92	91	91	91	91	92	92	93	97	100	103	110	119	119	121	118	108	98
250	87	90	93	93	91	91	92	93	93	95	100	102	108	114	120	118	120	110	100
315	88	92	95	93	90	92	92	91	93	94	96	100	106	113	118	120	119	109	99
400	90	91	94	94	91	91	90	91	92	94	95	100	105	110	116	120	117	107	97
500	98	97	102	97	92	92	91	92	95	96	95	101	105	109	117	118	117	107	97
630	90	95	96	96	94	92	91	92	94	97	96	101	105	108	115	117	114	104	94
800	87	93	96	95	95	93	92	92	95	97	98	101	104	107	113	115	112	102	92
1000	86	91	94	94	94	94	94	94	94	97	97	101	104	107	112	114	110	100	90
1250	85	88	91	91	93	93	93	94	95	96	98	101	103	105	111	112	107	97	87
1600	92	89	90	91	92	93	93	94	95	97	98	101	104	105	110	112	106	96	86
2000	97	92	89	89	88	90	90	91	95	97	99	102	103	105	109	111	106	96	86
2500	88	85	86	86	87	89	89	90	94	96	98	100	101	103	107	109	104	94	84
3150	86	84	86	86	87	88	89	91	95	96	99	101	102	103	107	109	104	94	84
4000	91	84	85	86	86	87	88	89	94	96	98	99	102	102	106	108	103	93	83
5000	85	81	82	84	84	85	86	87	92	93	95	96	98	99	103	106	99	89	79
6300	84	78	80	81	82	83	84	84	90	91	94	95	97	99	103	106	99	89	79
8000	80	75	76	77	78	79	80	81	88	89	91	93	95	97	102	106	97	87	77
10000	76	72	73	74	75	76	78	77	85	86	89	90	93	95	102	105	96	86	76
OVERALL	104	104	107	105	104	104	104	105	107	109	111	114	119	124	128	131	128	118	108

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	OPERATION:																		
	MILITARY POWER, 95% RPM SINGLE ENGINE																		
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DR																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	118.3	115.9	117.9	116.0	115.9	116.8	117.3	118.2	121.7	123.3	125.5	127.9	130.6	134.1	138.1	140.5	136.9	126.9	116.9
250	116.1	113.7	115.8	113.7	113.7	114.5	115.0	116.0	119.4	121.1	123.2	125.7	128.4	131.9	135.9	138.4	134.8	124.8	114.7
315	113.8	111.4	113.6	111.7	111.5	112.3	112.7	113.7	117.1	118.8	120.9	123.4	126.1	129.8	133.7	136.2	132.6	122.6	112.6
400	111.5	109.2	111.4	109.4	109.2	110.0	110.3	111.3	114.7	116.4	118.5	121.0	123.7	127.5	131.5	133.9	130.4	120.4	110.4
500	109.1	106.8	109.1	107.1	106.8	107.6	107.9	108.8	112.2	113.9	116.0	118.5	121.3	125.1	129.2	131.6	129.2	118.1	108.1
630	106.6	104.3	106.7	104.7	104.3	105.1	105.3	106.2	109.5	111.2	113.3	115.9	118.7	122.5	126.7	129.2	125.8	115.8	105.7
800	103.9	101.7	104.3	102.2	101.8	102.6	102.7	103.5	106.7	108.4	110.5	113.1	115.9	119.9	124.2	126.7	123.4	113.3	103.2
1000	101.2	99.0	101.8	99.6	99.0	99.8	99.9	100.7	103.8	105.5	107.6	110.2	113.0	117.0	121.6	124.2	120.8	110.8	100.6
1250	98.2	96.1	99.1	96.8	96.1	96.9	97.0	97.7	100.6	102.5	104.3	107.2	110.1	114.0	118.6	121.4	117.9	107.9	97.7
1600	95.0	93.0	96.3	93.9	93.0	93.7	93.8	94.6	97.3	99.2	100.9	104.0	106.8	110.7	115.7	118.5	115.1	105.3	94.8
2000	91.6	90.0	93.4	90.9	89.7	90.4	90.4	91.2	93.7	95.7	97.4	100.5	103.4	107.4	112.6	115.5	112.0	101.9	91.7
2500	87.8	86.7	90.2	87.5	86.0	86.7	86.7	87.5	89.9	91.9	93.5	96.7	99.6	103.5	109.2	111.7	108.6	98.4	88.2
3150	83.6	82.8	85.4	83.7	82.3	82.7	82.7	83.4	85.6	87.6	89.2	92.4	95.4	99.3	105.2	107.4	104.6	94.4	84.2
4000	78.9	78.5	82.2	79.4	78.2	78.3	78.2	79.0	80.9	82.9	84.4	87.7	91.0	94.7	100.8	102.8	100.2	90.0	79.7
5000	73.8	73.8	77.6	74.7	73.8	73.4	73.3	74.1	75.9	78.0	79.3	82.6	86.2	89.9	96.0	98.0	95.5	85.3	75.0
6300	68.8	68.9	72.8	69.7	68.9	68.3	68.1	68.7	70.6	72.8	74.0	77.6	81.1	84.9	91.1	93.1	90.6	80.4	70.0
8000	64.7	64.9	68.9	65.7	64.5	63.8	63.4	63.8	66.0	68.3	69.4	73.1	77.0	81.0	87.3	89.3	86.9	76.6	66.2
10000	60.2	60.6	64.8	61.4	59.6	58.8	58.3	58.9	61.1	63.4	64.5	68.4	72.5	76.9	83.2	85.3	83.0	72.6	62.0
12500	55.3	55.8	60.2	56.6	54.2	53.3	52.9	53.6	56.1	58.3	59.0	63.4	67.8	72.5	78.9	81.0	78.8	68.3	57.5
16000	50.0	50.5	55.1	51.4	48.4	47.6	46.9	47.7	50.5	52.7	53.1	58.0	62.8	67.7	74.2	76.3	74.2	63.5	52.5
20000	43.9	44.3	49.3	45.3	41.2	40.7	39.9	41.0	43.8	46.4	46.6	52.2	57.3	62.5	69.1	71.3	69.1	58.2	46.9
25000	36.0	36.4	42.5	37.5	32.9	32.4	31.5	33.1	36.4	39.8	39.2	45.2	51.0	56.8	63.4	65.7	63.4	52.2	39.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE (FEET)	ANGLE (DEGREES)											METEOROLOGY:				IDENTIFICATION:			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	120.8	117.5	120.3	116.0	115.9	116.8	117.3	118.2	121.7	123.3	125.5	127.9	130.6	134.1	138.6	140.5	136.9	126.9	116.9
250	118.6	115.3	118.2	113.9	113.7	114.5	115.0	116.0	119.4	121.1	123.2	125.7	128.4	131.9	136.5	138.4	134.8	124.8	114.7
315	116.4	113.1	116.0	111.7	111.5	112.3	112.7	113.7	117.1	118.8	120.9	123.4	126.1	129.8	134.3	136.2	132.6	122.6	112.6
400	114.0	110.8	113.8	109.4	109.2	110.0	110.3	111.3	114.7	116.4	118.5	121.0	123.7	127.5	132.1	133.9	130.4	120.4	110.4
500	111.6	108.4	111.5	107.1	106.8	107.6	107.9	108.8	112.2	113.9	116.0	118.5	121.3	125.1	129.8	131.6	128.2	118.1	108.1
630	109.1	105.9	109.2	104.7	104.3	105.1	105.3	106.2	109.5	111.2	113.3	115.9	118.7	122.5	127.2	129.2	125.8	115.8	105.7
800	106.5	103.4	106.7	102.2	101.8	102.6	102.7	103.5	106.7	108.4	110.5	113.1	115.9	119.9	124.8	126.7	123.4	113.3	103.2
1000	103.7	100.6	104.2	99.6	99.0	99.8	99.9	100.7	103.8	105.5	107.6	110.2	113.0	117.0	122.1	124.2	120.8	110.8	100.6
1250	100.7	97.7	101.5	96.8	96.1	96.9	97.0	97.7	100.6	102.5	104.3	107.2	110.1	114.0	119.2	121.4	117.9	107.9	97.7
1600	97.5	94.6	98.7	93.9	93.0	93.7	93.8	94.6	97.3	99.2	100.9	104.3	106.8	110.7	116.3	118.5	115.1	105.0	94.8
2000	94.1	91.6	95.8	90.9	89.7	90.4	90.4	91.2	93.7	95.7	97.4	100.5	103.4	107.4	113.2	115.5	112.0	101.9	91.7
2500	90.4	88.3	92.6	87.5	86.0	86.7	86.7	87.5	89.9	91.9	93.5	96.7	99.6	103.5	109.7	111.7	108.6	98.4	88.2
3150	86.2	84.4	88.8	83.7	82.3	82.7	82.7	83.4	85.6	87.6	89.2	92.4	95.4	99.3	105.8	107.4	104.6	94.4	84.2
4000	81.0	79.8	84.1	79.4	78.2	78.3	78.2	79.0	80.9	82.9	84.4	87.7	91.0	94.7	101.2	102.8	100.2	90.0	79.7
5000	75.4	74.8	79.0	74.7	73.8	73.4	73.3	74.1	75.9	78.0	79.3	82.6	86.2	89.9	96.3	98.0	95.5	85.3	75.0
6300	69.8	69.5	73.7	69.7	68.9	68.3	68.1	68.7	70.6	72.8	74.0	77.6	81.1	84.9	91.3	93.1	90.6	80.4	70.0
8000	65.2	65.2	69.4	65.7	64.5	63.8	63.4	63.8	66.0	68.3	69.4	73.1	77.0	81.0	87.4	89.3	86.9	76.6	66.2
10000	60.2	60.6	64.8	61.4	59.6	58.8	58.3	58.9	61.1	63.4	64.5	68.4	72.5	76.9	83.2	85.3	83.0	72.6	62.0
12500	55.3	55.8	60.2	56.6	54.2	53.3	52.9	53.6	56.1	58.3	59.0	63.4	67.8	72.5	78.9	81.0	78.8	68.3	57.5
16000	50.0	50.5	55.1	51.4	48.4	47.6	46.9	47.7	50.5	52.7	53.1	58.0	62.8	67.7	74.2	76.3	74.2	63.5	52.5
20000	43.9	44.3	49.3	45.3	41.2	40.7	39.9	41.0	43.8	46.4	46.6	52.2	57.3	62.5	69.1	71.3	69.1	58.2	46.9
25000	36.0	36.4	42.5	37.5	32.9	32.4	31.5	33.1	36.4	38.8	39.2	45.2	51.0	56.8	63.4	65.7	63.4	52.2	39.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:	METEOROLOGY:																			
	TEMP = 59 F																			
F-111F AIRCRAFT	BAR PRESS = 29.92 IN HG																			
	REL HUMID = 70 %																			
ENG. TF30-P-100	DELTA N = 0.0 DB																			
GROUND RUNUP	IDENTIFICATION:																			
	OMEGA 8.2																			
	TEST 74-079-001																			
	RUN 04																			
	AIRCRAFT CODE 079																			
	OPERATION CODE 01004																			
	PROFILE VERSION A																			
	06 APR 76																			
	PAGE F4																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	104.5	103.3	105.8	104.6	104.1	104.2	104.2	104.8	107.6	109.5	111.1	113.9	116.5	119.8	124.8	126.9	123.9	113.9	103.9	
250	102.3	101.2	103.7	102.5	101.9	102.0	102.0	102.7	105.4	107.3	108.9	111.7	114.4	117.7	122.7	124.8	121.8	111.8	101.8	
315	100.1	99.1	101.6	100.3	99.8	99.9	99.8	99.8	100.5	103.2	105.0	106.6	109.4	112.2	115.5	120.5	119.7	109.7	97.7	
400	97.8	96.4	99.5	98.2	97.6	97.7	97.6	98.3	100.9	102.8	104.3	107.2	110.0	113.4	118.4	120.5	117.6	107.6	97.6	
500	95.5	94.7	97.4	96.0	95.4	95.4	95.3	96.0	98.5	100.4	101.9	104.8	107.7	111.1	116.2	118.3	115.4	105.4	95.4	
630	93.2	92.5	95.2	93.8	93.1	93.1	93.0	93.6	96.1	98.0	99.4	102.5	105.3	108.7	113.9	116.0	113.2	103.2	93.2	
800	90.7	90.2	93.0	91.5	90.8	90.7	90.6	91.2	93.6	95.5	96.9	100.0	102.9	106.3	111.6	113.7	110.9	100.9	90.9	
1000	88.2	87.8	90.7	89.1	88.4	88.3	88.1	89.7	91.0	93.0	94.3	97.4	100.4	103.9	109.2	111.4	108.5	98.5	88.5	
1250	85.6	85.4	88.3	86.7	85.9	85.7	85.5	87.1	88.3	90.3	91.5	94.8	97.8	101.2	106.6	108.9	106.0	96.0	86.0	
1600	82.9	82.9	85.9	84.2	83.3	83.1	82.8	83.4	85.5	87.5	88.7	92.0	95.0	98.4	104.0	106.3	103.5	93.5	83.5	
2000	80.1	80.3	83.4	81.6	80.7	80.3	80.0	80.6	82.6	84.7	85.7	89.1	92.2	95.6	101.3	103.6	100.8	90.8	80.8	
2500	77.0	77.4	80.7	78.8	77.8	77.3	77.0	77.6	79.5	81.6	82.5	86.1	89.2	92.4	98.3	100.5	97.8	87.8	77.8	
3150	73.5	74.3	77.5	75.7	74.7	74.1	73.8	74.3	76.1	78.3	79.1	82.7	85.9	89.0	95.0	97.2	94.4	84.4	74.4	
4000	69.6	70.7	73.9	72.2	71.3	70.6	70.2	70.8	72.5	74.7	75.4	79.1	82.2	85.2	91.3	93.5	90.6	80.6	70.6	
5000	65.3	66.7	69.9	68.2	67.4	66.6	66.3	66.8	68.4	70.6	71.3	75.0	78.1	81.1	87.2	89.3	86.4	76.4	66.4	
6300	60.6	62.4	65.6	63.9	63.1	62.3	61.9	62.4	64.0	66.2	66.8	70.6	73.8	76.6	82.8	85.0	82.0	72.0	62.0	
8000	56.6	58.5	61.9	60.0	59.0	58.1	57.6	58.1	59.7	62.0	62.5	66.4	69.7	72.7	79.0	81.1	78.3	68.3	58.3	
10000	52.5	54.4	57.9	55.8	54.4	53.4	52.9	53.4	55.1	57.4	57.7	61.8	65.2	68.5	74.9	77.0	74.4	64.4	54.4	
12500	48.1	49.8	53.5	51.1	49.4	48.3	47.8	48.3	50.1	52.4	52.6	56.9	60.5	64.0	70.4	72.6	70.2	60.2	50.2	
16000	43.5	44.8	48.7	45.9	43.9	42.8	42.2	42.7	44.7	47.0	47.1	51.5	55.3	59.2	65.5	67.7	65.5	55.5	45.5	
20000	38.2	39.2	43.3	40.2	37.8	36.7	36.1	36.7	38.8	41.0	41.1	45.7	49.7	54.1	60.2	62.4	60.4	50.4	40.4	
25000	32.3	33.0	37.3	33.9	31.1	30.2	29.6	30.3	32.4	34.6	34.8	39.4	43.8	48.7	54.4	56.8	54.8	44.8	34.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)		AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
DISTANCE (FEET)	NOISE SOURCE/SUBJECT: F-111F AIRCRAFT ENG. TF30-P-100 GROUND RUNUP	OPERATION: MILITARY POWER, 95% RPM SINGLE ENGINE																		
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
		METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN. Hg. REL HUMID = 70 % DELTA N = 0.0 DB																		
		ANGLE (DEGREES)																		
200	107.0	104.9	106.3	104.6	104.1	104.2	104.8	107.6	109.5	111.1	113.9	116.5	119.8	125.3	126.9	123.9	113.9	103.9		
250	104.8	102.6	106.2	102.5	101.9	102.0	102.7	105.4	107.3	108.9	111.7	114.4	117.7	123.2	124.8	121.8	111.8	101.8		
315	102.6	100.7	104.1	100.3	99.8	99.9	99.8	100.5	103.2	105.0	106.6	109.4	112.2	115.5	121.1	122.7	119.7	109.7	99.7	
400	100.4	98.5	102.0	98.2	97.6	97.7	97.6	98.3	100.9	102.8	104.3	107.2	110.0	113.4	118.9	120.5	117.6	107.6	97.6	
500	98.1	96.3	99.8	96.0	95.4	95.4	95.3	96.0	98.5	100.4	101.9	104.8	107.7	111.1	116.7	118.3	115.4	105.4	95.4	
630	95.7	94.1	97.6	93.8	93.1	93.1	93.0	93.6	96.1	98.0	99.4	102.5	105.3	108.7	114.5	116.0	113.2	103.2	93.2	
800	93.3	91.8	95.4	91.5	90.8	90.7	90.6	91.2	93.6	95.5	96.9	100.0	102.9	106.3	112.1	113.7	110.9	100.9	90.9	
1000	90.8	89.5	93.1	89.1	88.4	88.3	88.1	88.7	91.0	93.0	94.3	97.4	100.4	103.9	109.7	111.4	108.5	98.5	88.5	
1250	88.2	87.0	90.7	86.7	85.9	85.7	85.5	86.1	88.3	90.3	91.5	94.8	97.8	101.2	107.2	108.9	106.0	96.0	86.0	
1600	85.4	84.5	88.3	84.2	83.3	83.1	82.8	83.4	85.5	87.5	88.7	92.0	95.0	98.4	104.6	106.3	103.5	93.5	83.5	
2000	82.6	81.9	85.8	81.6	80.7	80.3	80.0	80.6	82.6	84.7	85.7	89.1	92.2	95.6	101.9	103.6	100.8	90.8	80.8	
2500	79.6	79.1	83.1	78.8	77.8	77.3	77.0	77.6	79.5	81.6	82.5	86.1	89.2	92.4	98.3	100.5	97.8	87.8	77.8	
3150	76.0	75.9	79.9	75.7	74.7	74.1	73.8	74.3	76.1	78.3	79.1	82.7	85.9	89.0	95.6	97.2	94.4	84.4	74.4	
4000	71.7	72.0	75.9	72.2	71.3	70.6	70.2	70.8	72.5	74.7	75.4	79.1	82.2	85.2	91.8	93.5	90.6	80.6	70.6	
5000	66.8	67.7	71.4	68.2	67.4	66.5	66.3	66.8	68.4	70.6	71.3	75.0	78.1	81.1	87.6	89.3	86.4	76.4	66.4	
6300	61.6	63.0	66.6	63.9	63.1	62.3	61.9	62.4	64.0	66.2	66.8	70.6	73.8	76.6	83.1	85.0	82.0	72.0	62.0	
8000	57.1	58.8	62.4	60.0	59.0	58.1	57.6	58.1	59.7	62.0	62.5	66.4	69.7	72.7	79.1	81.1	78.3	68.3	58.3	
10000	52.5	54.4	57.9	55.8	54.4	53.4	52.9	53.4	55.1	57.4	57.7	61.8	65.2	68.5	74.9	77.0	74.4	64.4	54.4	
12500	48.1	49.8	53.5	51.1	49.4	48.3	47.8	48.3	50.1	52.4	52.6	56.9	60.5	64.0	70.4	72.6	70.2	60.2	50.2	
16000	43.5	44.8	48.7	45.9	43.9	42.8	42.2	42.7	44.7	47.0	47.1	51.5	55.3	59.2	65.5	67.7	65.5	55.5	45.5	
20000	38.2	39.2	43.3	40.2	37.8	36.7	36.1	36.7	38.8	41.0	41.1	45.7	49.7	54.1	60.2	62.4	60.4	50.4	40.4	
25000	32.3	33.0	37.3	33.9	31.1	30.2	29.6	30.3	32.4	34.6	34.8	39.4	43.8	48.7	54.4	56.8	54.8	44.8	34.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

( TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 ( DISTANCE = 250 FEET  
 ( NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 079  
 ( F-111F AIRCRAFT ) MILITARY POWER, 95% RPM ) TEMP = 59 F ) OPERATION CODE 01004  
 ( ENG. TF30-P-100 ) SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A  
 ( GROUND RUNUP ) ) REL HUMID = 70 % ) 06 APR 76  
 ( ) DELTA N = 0.0 DB ) PAGE J4  
 ( ) IDENTIFICATION: )  
 ( ) OMEGA 8.2 )  
 ( ) TEST 74-079-001 )  
 ( ) RUN 04 )

ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA											
	40	50	60	70	80	90	100	110	120	130	140	
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												
>170												
>180												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: ( OPERATION: ) METEOROLOGY: ) AIRCRAFT CODE 079																			
F-111F AIRCRAFT ( AFTERBURNER POWER, ZONE 3 ) TEMP = 59 F ) OPERATION CODE 01002																			
ENG. TF30-P-100 ( SINGLE ENGINE ) BAR PRESS = 29.92 IN HG ) PROFILE VERSION A																			
GROUND RUNUP ( ) REL HUMID = 70 % ) 06 APR 76																			
( ) DELTA N = 0.0 DB ) PAGE C5																			
BAND CENTER																			
ANGLE (DEGREES)																			
BAND CENTER	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	90	89	90	91	92	93	93	93	95	96	96	105	111	117	120	118	111	101	91
63	91	91	94	94	93	94	96	97	97	100	101	107	113	121	124	118	113	103	93
80	92	94	97	97	95	97	97	99	100	103	104	110	116	123	126	119	116	106	96
100	94	97	99	98	97	98	99	100	102	105	106	113	117	125	128	124	119	109	99
125	96	99	100	99	98	99	100	100	103	105	108	113	118	122	127	124	120	110	100
160	99	101	100	99	98	99	101	101	103	107	108	116	122	122	126	124	121	111	101
200	97	99	97	99	97	99	100	100	102	105	107	114	120	124	123	122	120	110	100
250	92	95	99	100	98	100	99	100	101	105	106	111	118	124	121	119	117	107	97
315	94	98	101	100	97	99	98	99	100	102	106	111	116	121	120	118	117	107	97
400	93	95	99	100	98	98	98	99	100	102	105	111	114	119	118	116	114	104	94
500	93	95	99	100	98	96	98	99	101	102	106	112	115	119	116	116	112	102	92
630	92	98	99	100	98	96	98	100	102	104	107	113	114	118	115	114	109	99	89
800	90	96	98	100	99	98	99	100	102	104	108	112	115	117	114	113	107	97	87
1000	90	94	97	99	100	99	101	102	104	105	109	113	115	117	115	113	105	95	85
1250	90	94	95	97	98	98	100	103	104	105	109	112	114	117	114	110	102	92	82
1600	93	95	96	98	99	99	102	104	105	107	110	111	113	115	113	108	100	90	80
2000	98	94	94	95	95	96	99	101	103	105	108	112	114	116	113	108	100	90	80
2500	89	91	91	94	95	96	100	102	103	105	107	111	112	114	112	105	98	88	78
3150	87	89	91	94	95	95	100	102	103	104	107	111	112	114	111	104	97	87	77
4000	92	88	90	93	94	94	99	101	101	104	106	111	112	114	111	104	96	86	76
5000	87	86	88	91	92	92	96	99	99	102	104	107	110	112	109	103	93	83	73
6300	85	82	84	88	89	89	93	96	97	100	102	107	109	112	109	102	91	81	71
8000	81	78	80	84	85	85	89	93	94	96	99	106	109	112	108	102	89	79	69
10000	78	75	77	81	82	82	87	92	91	94	98	106	110	113	108	103	87	77	67
OVERALL	107	109	110	111	110	111	112	114	115	117	120	125	129	133	135	132	126	118	108

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	METEOROLOGY:																		
	TEMP = 59 F																		
F-111F AIRCRAFT	BAR PRESS = 29.92 IN HG																		
ENG. TF30-P-100	REL HUMID = 70 %																		
GROUND RUNUP	DELTA N = 0.0 DB																		
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	120.4	119.8	121.1	123.3	123.3	123.5	126.6	128.8	129.9	131.5	134.3	138.8	141.2	144.5	142.7	139.0	134.4	124.3	114.3
250	118.2	117.7	118.9	120.9	121.1	121.3	124.3	126.6	127.6	129.3	132.1	136.5	139.0	142.2	140.4	136.9	132.3	122.2	112.2
315	116.0	115.5	116.7	118.6	118.8	119.0	122.0	124.2	125.3	127.0	129.8	134.2	136.6	139.9	138.2	134.7	130.1	120.1	110.1
400	113.7	113.2	114.4	116.4	116.6	117.6	119.6	121.8	123.0	124.6	127.4	131.8	134.2	137.4	135.8	132.5	127.9	117.9	107.9
500	111.3	110.8	112.1	113.8	113.9	114.2	117.2	119.3	120.5	122.2	124.9	129.3	131.7	134.9	133.5	130.1	125.7	115.6	105.6
630	108.8	108.3	109.7	111.3	111.4	111.6	114.5	116.7	117.8	119.6	122.3	126.7	129.1	132.3	131.0	127.6	123.3	113.3	103.2
800	106.1	105.8	107.1	108.7	108.8	109.0	111.8	113.9	115.1	116.9	119.5	123.9	126.4	129.7	128.4	124.9	121.0	110.9	100.8
1000	103.4	103.0	104.4	106.0	106.1	106.2	108.9	110.9	112.1	114.1	116.8	121.0	123.6	126.9	125.6	122.1	118.4	108.4	98.2
1250	100.4	100.1	101.5	103.1	103.2	103.3	105.8	107.7	109.0	111.0	113.9	118.0	120.6	123.9	122.6	119.2	115.5	105.4	95.2
1600	97.2	97.0	98.5	100.0	100.1	100.2	102.6	104.4	105.8	107.9	110.7	114.8	117.4	120.7	119.4	116.3	112.3	102.2	92.0
2000	93.7	93.6	95.4	96.6	96.7	96.8	99.2	101.0	102.4	104.4	107.3	111.3	114.0	117.3	116.2	113.1	109.3	99.1	88.8
2500	89.9	89.1	91.7	93.1	93.0	93.1	95.4	97.2	98.7	100.6	103.7	107.5	110.1	113.5	112.3	109.6	105.5	95.3	84.9
3150	85.6	86.4	87.8	89.2	89.0	89.0	91.3	93.1	94.6	96.5	99.6	103.3	105.9	109.4	108.1	105.6	101.2	90.9	80.5
4000	80.9	82.1	83.5	84.9	84.5	84.5	86.8	88.6	90.1	92.0	95.1	98.6	101.2	104.9	103.5	101.1	96.6	86.2	75.8
5000	75.7	77.4	78.8	80.2	79.6	79.6	81.9	83.7	85.2	87.1	90.2	93.8	96.6	100.1	98.7	96.3	91.8	81.4	71.0
6300	69.9	72.4	73.8	75.2	74.7	74.3	76.5	78.3	79.9	81.8	85.0	88.8	91.6	95.1	93.7	91.4	86.9	76.5	65.9
8000	64.3	68.2	69.7	71.0	70.2	69.5	71.3	73.0	74.6	76.5	79.8	84.6	87.4	91.1	89.8	87.6	83.3	72.8	62.2
10000	59.8	63.7	65.3	66.6	65.4	64.7	66.3	67.6	69.7	71.6	75.0	80.1	83.1	87.0	85.8	83.7	79.5	69.0	58.1
12500	54.9	58.8	60.6	61.8	60.1	59.4	60.9	62.5	64.6	66.5	69.9	75.3	78.6	82.6	81.5	79.5	75.4	64.7	53.5
16000	49.3	53.2	55.5	56.6	54.6	53.9	55.4	56.8	59.0	61.1	64.4	70.0	73.7	77.9	77.0	75.0	71.0	60.1	48.6
20000	42.8	46.8	49.7	50.9	48.6	47.9	49.4	50.8	53.0	54.8	58.6	64.5	68.5	72.8	72.1	70.1	66.1	55.0	42.6
25000	35.2	39.1	42.7	43.9	41.2	40.4	41.9	43.7	46.1	48.1	52.1	58.4	62.7	67.3	67.4	64.6	60.7	49.1	35.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	122.8	119.8	121.1	123.1	123.3	123.5	126.6	128.8	129.9	131.5	134.3	138.8	141.2	145.0	142.7	139.0	134.4	124.3	114.3
250	120.6	117.7	118.9	120.9	121.1	121.5	124.3	126.6	127.6	129.3	132.1	136.5	139.0	142.7	140.4	136.9	132.3	122.2	112.2
315	118.4	115.5	116.7	118.6	118.8	119.0	122.0	124.2	125.3	127.0	129.8	134.2	136.6	140.4	138.2	134.7	130.1	120.1	110.1
400	116.1	113.2	114.4	116.3	116.4	116.6	119.6	121.8	123.0	124.6	127.4	131.8	134.2	137.9	135.8	132.5	127.9	117.9	107.9
500	113.7	110.8	112.1	113.8	113.9	114.2	117.2	119.3	120.5	122.2	124.9	129.3	131.7	135.4	133.5	130.1	125.7	115.6	105.6
630	111.2	108.3	109.7	111.3	111.4	111.6	114.5	116.7	117.8	119.6	122.3	126.7	129.1	132.8	131.0	127.6	123.3	113.3	103.2
800	108.5	105.8	107.1	108.7	108.8	109.0	111.8	113.9	115.1	116.9	119.5	123.9	126.4	130.2	128.4	124.9	121.0	110.9	100.8
1000	105.8	103.0	104.4	106.0	106.1	106.2	108.9	110.9	112.1	114.1	116.8	121.0	123.6	127.4	125.6	122.1	118.4	108.4	98.2
1250	102.8	100.1	101.5	103.1	103.2	103.3	105.8	107.7	109.0	111.0	113.9	118.0	120.6	124.4	122.6	119.2	115.5	105.4	95.2
1600	99.6	97.0	98.5	100.0	100.1	100.2	102.6	104.4	105.8	107.8	110.7	114.8	117.4	121.2	119.4	116.3	112.3	102.2	92.0
2000	96.1	93.6	95.4	96.6	96.7	96.8	99.2	101.0	102.4	104.4	107.3	111.3	114.0	117.8	116.2	113.1	109.3	99.1	88.8
2500	92.3	90.1	91.7	93.1	93.0	93.1	95.4	97.2	98.7	100.6	103.7	107.5	110.1	114.0	112.3	109.6	105.5	95.3	84.9
3150	88.0	86.4	87.8	89.2	89.0	89.0	91.3	93.1	94.6	96.5	99.6	103.3	105.9	109.9	108.1	105.6	101.2	90.9	80.5
4000	82.8	82.1	83.5	84.9	84.5	84.5	86.8	88.6	90.1	92.0	95.1	98.6	101.2	105.3	103.5	101.1	96.6	86.2	75.8
5000	77.1	77.4	78.8	80.2	79.6	79.6	81.9	83.7	85.2	87.1	90.2	93.8	96.6	100.4	98.7	96.3	91.8	81.4	71.0
6300	70.9	72.4	73.8	75.2	74.7	74.3	76.5	78.3	79.9	81.8	85.0	88.8	91.6	95.3	93.7	91.4	86.9	76.5	65.9
8000	64.8	68.2	69.7	71.0	70.2	69.5	71.3	73.0	74.6	76.5	79.8	84.6	87.4	91.2	89.8	87.6	83.3	72.8	62.2
10000	59.8	63.7	65.3	66.6	65.4	64.7	66.3	67.6	69.7	71.6	75.0	80.1	83.1	87.0	85.8	83.7	79.5	69.0	58.1
12500	54.9	58.8	60.6	61.8	60.1	59.4	60.9	62.5	64.6	66.5	69.9	75.3	78.6	82.6	81.5	79.5	75.4	64.7	53.5
16000	49.3	53.2	55.5	56.6	54.6	53.9	55.4	56.8	59.0	61.1	64.4	70.0	73.7	77.9	77.0	75.0	71.0	60.1	48.6
20000	42.8	46.6	49.7	50.9	48.6	47.9	49.4	50.8	53.0	54.8	58.5	64.5	68.5	72.8	72.1	70.1	66.1	55.0	42.6
25000	35.2	39.1	42.7	43.9	41.2	40.4	41.9	43.7	46.1	48.1	52.1	58.4	62.7	67.3	67.4	64.6	60.7	49.1	35.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.



TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.6	106.9	108.5	110.1	110.2	110.0	112.7	114.8	116.0	117.8	120.9	124.8	126.9	129.9	127.9	124.8	120.6	110.6	100.6
250	103.5	104.7	106.4	108.0	108.0	107.8	110.5	112.6	113.9	115.6	118.7	122.6	124.7	127.7	125.7	122.7	118.5	108.5	98.5
315	101.3	102.6	104.3	105.9	105.9	105.6	108.3	110.3	111.6	113.4	116.5	120.3	122.5	125.5	123.6	120.6	116.5	106.5	96.5
400	99.0	100.4	102.1	103.7	103.7	103.4	106.0	108.0	109.4	111.1	114.2	118.0	120.2	123.3	121.3	118.4	114.4	104.4	94.4
500	96.7	98.2	99.9	101.5	101.4	101.1	103.7	105.7	107.0	108.8	111.9	115.7	117.9	121.0	119.1	116.2	112.2	102.2	92.2
630	94.3	95.9	97.7	99.2	99.1	98.8	101.3	103.2	104.6	106.3	109.5	113.3	115.5	118.6	116.7	113.9	109.9	99.9	89.9
800	91.8	93.6	95.3	96.8	96.7	96.4	98.8	100.7	102.1	103.9	107.0	110.8	113.0	116.2	114.3	111.6	107.6	97.6	87.6
1000	89.3	91.2	93.0	94.4	94.2	93.9	96.3	98.1	99.6	101.3	104.5	108.3	110.5	113.7	111.8	109.1	105.2	95.2	85.2
1250	86.6	88.7	90.5	91.9	91.7	91.3	93.6	95.4	96.9	98.6	101.8	105.7	107.9	111.0	109.1	106.6	102.6	92.6	82.6
1600	83.8	86.0	87.9	89.3	89.0	88.6	90.8	92.6	94.1	95.8	99.1	102.9	105.1	108.3	106.3	103.9	99.8	89.8	79.8
2000	80.8	83.3	85.2	86.7	86.3	85.7	87.9	89.6	91.2	92.9	96.2	100.1	102.3	105.5	103.5	101.1	97.0	87.0	77.0
2500	77.6	80.3	82.2	83.7	83.3	82.7	84.7	86.4	88.1	89.7	93.2	97.1	99.2	102.4	100.3	98.1	93.8	83.8	73.8
3150	74.1	77.2	79.0	80.5	80.1	79.4	81.4	83.1	84.8	86.4	89.9	93.8	95.9	99.0	96.9	94.7	90.2	80.2	70.2
4000	70.2	73.6	75.4	77.0	76.6	75.8	77.8	79.4	81.1	82.7	86.2	90.2	92.3	95.4	93.1	91.1	86.2	76.2	66.2
5000	65.9	69.5	71.4	73.0	72.6	71.7	73.7	75.3	77.1	78.6	82.2	86.2	88.2	91.3	89.0	87.0	81.9	71.9	61.9
6300	61.2	65.2	67.0	68.6	68.3	67.4	69.3	70.8	72.6	74.2	77.8	81.8	83.9	86.9	84.5	82.6	77.4	67.4	57.4
8000	56.9	61.1	63.1	64.6	64.1	63.0	64.9	66.3	68.2	69.7	73.4	77.7	79.7	82.8	80.5	78.8	73.9	63.9	53.9
10000	52.4	56.8	58.8	60.3	59.4	58.4	60.1	61.5	63.4	64.9	68.7	73.1	75.3	78.5	76.3	74.7	70.1	60.1	50.1
12500	47.6	52.0	54.1	55.5	54.4	53.3	54.9	56.2	58.3	59.7	63.5	68.2	70.4	73.8	71.7	70.2	66.0	56.0	46.0
16000	42.6	46.8	49.0	50.3	48.9	47.8	49.3	50.5	52.6	54.1	57.9	62.8	65.2	68.7	66.9	65.4	61.6	51.6	41.6
20000	37.3	41.1	43.4	44.6	42.8	41.9	43.2	44.5	46.6	48.1	51.8	56.9	59.6	63.4	61.9	60.3	56.9	46.9	36.9
25000	31.5	35.0	37.3	38.4	36.3	35.6	36.8	38.0	40.0	41.7	45.2	50.5	53.7	57.7	56.9	55.0	51.9	41.9	31.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
200	108.0	106.9	106.5	110.1	110.2	110.0	112.7	114.8	116.0	117.8	120.9	124.8	126.9	130.4	127.9	124.8	120.6	110.6	100.6	
250	105.9	104.7	106.4	108.0	107.8	110.5	112.6	113.9	115.6	118.7	122.6	124.7	128.2	125.7	122.7	118.5	108.5	98.5		
315	103.7	102.6	104.3	105.9	105.6	108.3	110.3	111.6	113.4	116.5	120.3	122.5	126.0	123.6	120.6	116.5	106.5	96.5		
400	101.4	100.4	102.1	103.7	103.4	106.0	108.0	109.4	111.1	114.2	118.0	120.2	123.8	121.3	118.4	114.4	104.4	94.4		
500	99.1	98.2	99.9	101.5	101.4	103.7	105.7	107.0	108.8	111.9	115.7	117.9	121.5	119.1	116.2	112.2	102.2	92.2		
630	96.7	95.9	97.7	99.2	99.1	98.8	101.3	103.2	104.6	106.3	109.5	113.3	115.5	119.1	116.7	113.9	109.9	99.9	89.9	
800	94.3	93.6	95.3	96.8	96.7	96.4	98.8	100.7	102.1	103.9	107.0	110.8	113.0	116.7	114.3	111.6	107.6	97.6	87.6	
1000	91.7	91.2	93.0	94.4	94.2	93.9	96.3	98.1	99.6	101.3	104.5	108.3	110.5	114.2	111.8	109.1	105.2	95.2	85.2	
1250	89.0	88.7	90.5	91.9	91.7	91.3	93.6	95.4	96.9	98.6	101.8	105.7	107.9	111.5	109.1	106.6	102.6	92.6	82.6	
1600	86.2	86.0	87.9	89.3	89.0	88.6	90.8	92.6	94.1	95.8	99.1	102.9	105.1	108.8	106.3	103.9	99.8	89.8	79.8	
2000	83.2	83.3	85.2	86.7	86.3	85.7	87.9	89.6	91.2	92.9	96.2	100.1	102.3	106.0	103.5	101.1	97.0	87.0	77.0	
2500	80.0	80.3	82.2	83.7	83.3	82.7	84.7	86.4	88.1	89.7	93.2	97.1	99.2	102.9	100.3	98.1	93.8	83.8	73.8	
3150	76.5	77.2	79.0	80.5	80.1	79.4	81.4	83.1	84.8	86.4	89.9	93.8	95.9	99.5	96.9	94.7	90.2	80.2	70.2	
4000	72.1	73.6	75.4	77.0	76.6	75.8	77.8	79.4	81.1	82.7	86.2	90.2	92.3	95.8	93.1	91.1	86.2	76.2	66.2	
5000	67.3	69.5	71.4	73.0	72.6	71.7	73.7	75.3	77.1	78.6	82.2	86.2	88.2	91.6	89.0	87.0	81.9	71.9	61.9	
6300	62.2	65.2	67.0	68.6	68.3	67.4	69.3	70.8	72.6	74.2	77.8	81.8	83.9	87.1	84.5	82.6	77.4	67.4	57.4	
8000	57.3	61.1	63.1	64.6	64.1	63.0	64.9	66.3	68.2	69.7	73.4	77.7	79.7	82.9	80.5	78.8	73.9	63.9	53.9	
10000	52.4	56.0	58.0	60.3	59.4	58.4	60.1	61.5	63.4	64.9	68.7	73.1	75.3	78.5	76.3	74.7	70.1	60.1	50.1	
12500	47.6	52.0	54.1	55.5	54.4	53.3	54.9	56.2	58.3	59.7	63.5	68.2	70.4	73.8	71.7	70.2	66.0	56.0	46.0	
16000	42.6	46.8	49.0	50.3	48.9	47.8	49.3	50.5	52.6	54.1	57.9	62.8	65.2	68.7	66.9	65.4	61.6	51.6	41.6	
20000	37.3	41.1	43.4	44.6	42.8	41.9	43.2	44.5	46.6	48.1	51.8	56.9	59.6	63.4	61.9	60.3	56.9	46.9	36.9	
25000	31.5	35.0	37.3	38.4	36.3	35.6	36.8	38.0	40.0	41.7	45.2	50.5	53.7	57.7	56.9	55.0	51.9	41.9	31.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE  
 DISTANCE = 250 FEET  
 NOISE SOURCE/SUBJECT: F-111F AIRCRAFT  
 ENG. TF30-P-100  
 GROUND RUNUP  
 OPERATION: AFTERBURNER POWER, ZONE 3  
 SINGLE ENGINE  
 METEOROLOGY: TEMP = 59 F  
 BAR PRESS = 29.92 IN HG  
 REL HUMID = 71 %  
 DELTA N = 0.0 08  
 IDENTIFICATION: OMEGA 8.2  
 TEST 74-079-001  
 RUN 05  
 AIRCRAFT CODE 079  
 OPERATION CODE 01002  
 PROFILE VERSION A  
 06 APR 76  
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ANGLE IN DEGREES	P=PNLT		A=AL		T=ALT	
	50	60	70	80	90	100
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						
160						
>170						
>180						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.