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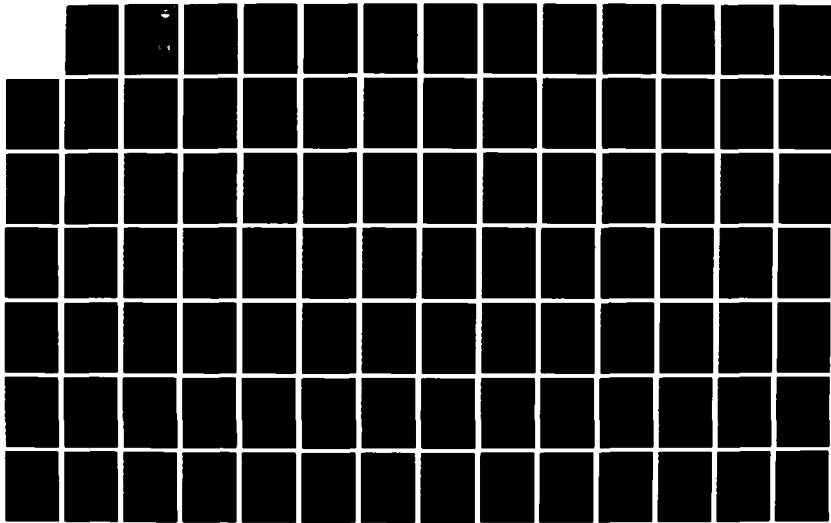
FIRST ARTICLE NOISE SURVEY OF THE A/F32T-9 LARGE TURBO
FAN ENGINE ENCLOSE. (U) AIR FORCE OCCUPATIONAL AND
ENVIRONMENTAL HEALTH LAB BROOKS AF. T H FAIRMAN
MAY 87 USAFOEHL-87-068E0118ENA

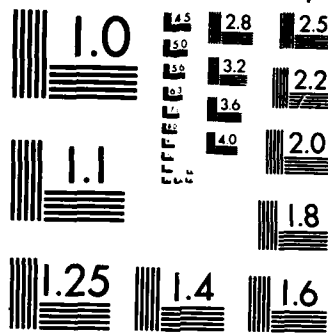
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USAFOEHL REPORT

87-068EH0118ENA



**FIRST ARTICLE NOISE SURVEY OF THE A/F32T-9
LARGE TURBO FAN ENGINE ENCLOSED NOISE
SUPPRESSOR SYSTEM, FAR-FIELD NOISE,
McCONNELL AFB KS**

TERRY M. FAIRMAN, CAPTAIN, USAF, BSC

May 1987

Final Report

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**USAF Occupational and Environmental Health Laboratory
Human Systems Division (AFSC)
Brooks Air Force Base, Texas 78235-5501**

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No 0704-0188

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS	
2a. SECURITY CLASSIFICATION AUTHORITY N/A		3. DISTRIBUTION / AVAILABILITY OF REPORT Distribution is unlimited; Approved for public release.	
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE N/A		4. PERFORMING ORGANIZATION REPORT NUMBER(S) USAFOEHLE Report 87-068EHO118ENA	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) USAFOEHLE Report 87-068EHO118ENA		5. MONITORING ORGANIZATION REPORT NUMBER(S)	
6a. NAME OF PERFORMING ORGANIZATION USAF Occupational and Environmental Health Laboratory	6b. OFFICE SYMBOL (if applicable) ECH	7a. NAME OF MONITORING ORGANIZATION	
6c. ADDRESS (City, State, and ZIP Code) Brooks AFB TX 78235-5501		7b. ADDRESS (City, State, and ZIP Code)	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION Same as 6A	8b. OFFICE SYMBOL (if applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
8c. ADDRESS (City, State, and ZIP Code) Same as 6c		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) First Article Noise Survey of the A/F32T-9 Large Turbo Fan Engine Enclosed Noise Suppressor System, Far-Field Noise, McConnell AFB KS			
12. PERSONAL AUTHOR(S) Terry M. Fairman, Capt, USAF, BSC			
13a. TYPE OF REPORT Final	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Year, Month, Day) May 1987	15. PAGE COUNT 181
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	A/F32T-9 Jet Engine Noise	
		Engine Test Cell Noise Suppressor	
		Noise T-9 NSS	
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			
<p>-This report presents the results of noise measurements made on the A/F32T-9 Large Turbo Fan Engine, Enclosed Noise Suppressor System, during First Article Tests at McConnell AFB KS. Noise measurements obtained at 100 meters distance are summarized for the following engines: the J57-59W, TF33-P3, TF30-P7, F100, TF41-A1, J85-5, F101-GE-102, and the F109-CF-100.</p>			
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL TERRY M. FAIRMAN, Captain, USAF, BSC		22b. TELEPHONE (Include Area Code) (512) 536-3214	22c. OFFICE SYMBOL ECH

ACKNOWLEDGMENTS

The author gratefully acknowledges the technical assistance provided by the staff of the Biodynamic Environment Branch, Armstrong Aerospace Medical Research Laboratory, Wright-Patterson AFB OH. Particular thanks go to Mr John Cole for approving a joint effort with his staff, the loan of their data acquisition systems, and providing access to their data analysis system. Also a special thanks to Mr Harald Hille who provided on-site technical assistance, Mr Robert Powell and Mr Robert Lee for their help in establishing a survey protocol, and to Mr Keith Kettler of the University of Dayton for his help in calibrating the microphones and recording systems, as well as assistance in the mechanics of data processing along with Mr Henry Mohlman and Mr Fred Lampley also of the University of Dayton who ran the OMEGA programs used to analyze and format the data.

The author also gratefully acknowledges the assistance of all the USAFOEHL data gathering team members, without whose assistance this project would never have been completed. They include: Lt Col Kenneth Talley, Lt Col Glenn Gaudet, Maj John Ellis, Maj Randall Ostraat, Maj Denton Crotchett, Capt Jeffery Jenkins, Capt Isaac Atkins, Capt Frank Liebhaber, Mr Jimmy Langwell, MSgt Abel De La Rosa, MSgt James Lanoue, MSgt John Randall, SSgt Michael Lazenby, SSgt Shelley Schelin, Sgt Kathy Skjod, Sgt Paul Lay, A1C Ty Farris, and A1C Donald Johnson.

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I. INTRODUCTION

A. Purpose: This report provides 1/3 octave band noise data on the A/F32T-9 Large Turbo Fan Engine Enclosed Noise Suppressor System (T-9 NSS), at McConnell AFB KS. Data were obtained in support of a request from the T-9 item managers, SA ALC/MMIMH, Kelly AFB TX, for noise data to support their First Article Tests (FAT) on the new facility.

B. Problem: The Williams Steel Inc./Cullum-Detuners Ltd. T-9 NSS is a prefabricated, air cooled, demountable, acoustically treated, jet engine noise suppressor system designed to totally enclose a single engine during ground runup operations. This facility is designed to permit testing of bare engines under controlled environmental conditions, and protect the neighboring area from noise through use of an air cooled exhaust system. This one facility can serve many different engine types and provides an efficient enclosed work area for maintenance personnel. T-9 noise suppressors are programmed to be sited at over 20 SAC bases and National Guard units in the next two years. Noise data are essential to evaluate the impact on the community noise environment around the T-9 facility, and determine if the T-9 noise suppressor meets the FAT requirements.

C. Scope: This report provides measured data defining bioacoustic environments produced by the following aircraft engines operating in the T-9 NSS during ground runup operations: J57-59W, TF33-P3, TF30-P7, F100, TF41-A1, J85-5, F101-GE-102, and F108-CF-100. All data are reported for 100 meters distance from the T-9 NSS, and are evaluated against the contractually specified criterion limit of 77 dB(A).

1. This report follows the data reporting format for the USAF Bioenvironmental Noise Data Handbooks established by the Armstrong Aerospace Medical Research Laboratory (AAMRL) under the report number AMRL-TR-75-50. The handbooks represent a multivolume library that quantifies the noise environments produced at flight/ground crew locations, and in surrounding communities by operations of Air Force aircraft and ground support equipment. The far-field, community-type noise data in the handbooks describe the noise produced during ground operations of aircraft, ground support equipment, and other ground-based equipment or facilities.

2. Volume 1 of the USAF Environmental Noise Data Handbook series discusses the objectives and design of the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc. Refer to Volume 1 (reference 2) for such information.

II. DISCUSSION

A. Measurements

1. USAFOEHL acquired the far-field noise data during an approximately 2 hour test period for each engine operating in the T-9 NSS, thus keeping similar meteorological conditions. Figure 1 shows the T-9 Noise Suppressor's

orientation relative to 20 microphone measurement sites centered on two 100 meter (328 feet) semicircles. The center of the front semicircle was located on the ground beneath the intersection of the engine centerline and a plane passing through the exhaust nozzle. The center of the back semicircle was located on the center of the exhaust stack. This two center approach was used because the T-9 NSS is designed with two main exit ports for the noise generated; the air inlets and the exhaust stack. These two exit ports are located a relatively large distance apart (over 100 feet) causing the T-9 to act like a two point noise source. For the T-9 to be measured as a single point source, noise measurements would have had to be taken at a much further distance than the 100 meter radius. Measured noise levels at farther distances would have been lower and possibly too close to the ambient noise environment to make a clear determination as to the source characteristics. The 1/3 octave band spectra for the two 90 degree positions were logarithmically averaged together to present only single values for the 90 degree measurement sites. This approximation was necessary since the OMEGA programs used to analyze the data only allow 19 angles to be presented. This method of averaging does not significantly affect the calculated overall values at any of the measurement locations.

2. Portable tape recording systems were used to sequentially record the noise at each far-field location. Approximately 10-15 seconds of noise at each location was recorded on audio tape for later analysis using a 1/3 octave band digital frequency analyzer. Two survey teams (three for the F101) recorded data using separate recording systems at different points to allow data collection within the time allowed by the operating constraints of the engine. The microphone was attached to a hand held pole, pointed at the source (0 degree angle of incidence) and vertically scanned from 0.5 to 3 meters for a period of 10 to 15 seconds during data acquisition at each measurement location. These samples were then time-integrated to derive a root-mean-square sound pressure level. Vertical scanning and time-integrating together reduces anomalies frequently present in data acquired by fixed height microphones.

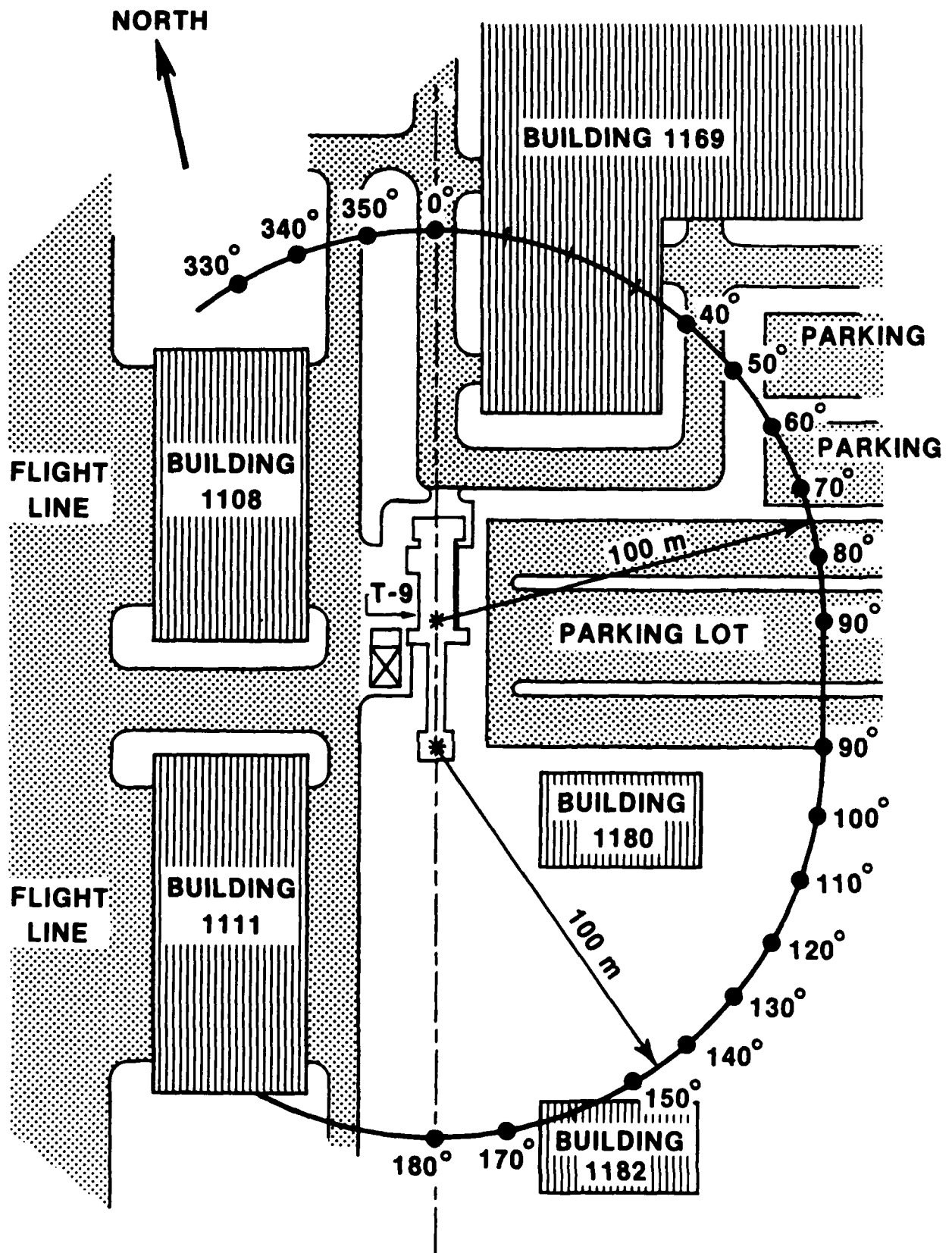


Figure 1: A/F32T-9 Noise Suppressor System Far-Field Measurement Locations

B. Results

1. Table 1 presents a list of definitions of the acoustical quantities and terminology used in this report.

TABLE 1

DEFINITIONS OF ACOUSTICAL TERMS

OASPL	Overall Sound Pressure Level. Energy summation of sound pressure levels in all 1/3 octave bands with no frequency weighting applied.
OASLA	A-Weighted Overall Sound Level, in dB(A), as specified in American National Standards Institute (ANSI) Standard Number S1.4-1983.
OASLC	C-Weighted Overall Sound Level, in dB(C), as specified in ANSI Standard Number S1.4-1983.
PNLT	Tone Corrected Perceived Noise Level as specified in Federal Aviation Regulation (FAR) Part 36.
PSIL	Preferred Speech Interference Level as specified in AFR 161-35.
dB	Decibel, Base 10 logarithmic ratio of sound pressure.

2. Table 2 presents a summary of the OASLA values for each of the eight engines measured at McConnell AFB. These values were obtained from each of the Tables X.4 for each engine. The table summarizes the noise data for only the highest engine power setting of each engine, either military power or afterburner power, as this condition created the loudest noise levels. A review of this table indicates four of the eight engines had one or more measured angles where the A-weighted noise level exceeded the 77 dB(A) criteria. The four engines with OASLA values in excess of 77 dB(A) are the TF30-P7, the F100, the J85-5, and the F101. Each of these engines had afterburner capability. The F101 appears to be the worst offender in that 16 of the 18 measured locations exceeded the 77 dB(A) specification. As discussed next in the Observations section, each of these A-weighted values could be off by as much as ± 3 dB(A), possibly even slightly more, because of the errors introduced from reflections and adverse weather conditions. Even conceding an overestimation of the actual noise level by as much as 3 or 4 dB(A), the noise levels measured for these engines would still be well in excess of the 77 dB(A) criteria particularly for the F101 engine.

TABLE 2

OVERALL SOUND LEVELS, A-WEIGHTED (OASLA)

ANGLE (Deg)	ENGINE							
	J57	T33	* TF30	* F100	TF41	* J85	* F101	F108
0	74	75	76	79	72	77	85	73
350	72	74	76	76	71	85	81	71
340	72	74	78	74	70	89	80	71
330	64	74	66	67	66	75	72	67
40	54	56	62	66	59	71	67	69
50	63	62	71	72	66	70	80	71
60	67	64	72	75	69	84	80	70
70	70	66	73	76	71	75	80	70
80	73	66	74	78	72	78	83	72
90	70	66	77	80	72	73	86	71
100	70	64	79	79	68	75	85	69
110	67	62	71	74	63	69	79	66
120	63	62	75	77	63	69	83	64
130	66	63	81	80	66	76	86	69
140	68	65	82	79	68	74	87	70
150	69	66	85	84	71	74	91	73
170	70	68	83	84	69	72	91	73
180	69	67	82	84	70	70	92	72

* Engines operating at maximum afterburner power.
All other engines operating at military power or
equivalent maximum thrust.

3. Tables "X".1 (specific "X" for each engine) provide the engine operating condition (%RPM) for each power setting used in the far-field tests. Also listed in these tables are the surface meteorological conditions during acquisition of the noise data for each engine operating in the T-9 NSS.

4. Tables "X".2 list the overall and 1/3 octave band sound pressure level (SPL) measured at the far-field locations under the specified engine power conditions and meteorological conditions at the time of each test.

5. Tables "X".3 present the overall and 1/3 octave band SPLs normalized to 100 meters distance and standard day meteorological conditions (15 degrees C temperature, 70% relative humidity, 0.760 meter Hg barometric pressure).

6. Tables "X".4 present the measures of human noise exposure as specified in AFR 161-35.

7. Tables "X".5 list the overall and octave band SPL data normalized to standard conditions.

8. Some of the Tables "X".2 - "X".5 have missing data for certain angles and frequencies. Several conditions caused missing data. First, it was physically impossible to collect data at the angle 160 location. Secondly, the level of noise in certain frequencies may have been below the dynamic range of the analysis equipment. This is the case for those measurement locations where high frequency results are missing. Lastly, any data which was erroneously recorded and not analyzable is not included in the tables.

9. Background noise levels were measured at each microphone measurement angle, and these data are presented as the first tables in the Table "X".2 series. It was necessary to determine the ambient noise levels at each measured angle around the T-9 since a single measurement obtained somewhere in the near vicinity of the T-9 would not adequately represent the background conditions at any of the individual measurement sites. This is due to both the sound energy reflected off of the surrounding buildings and the spurious and transient nature of aircraft operations noise from the flight line. It is important to note background noise levels are reported in a separate table in this report, and have not been eliminated from any of the remaining tables of this report. Further discussion of the reasons for not applying background noise corrections to the data in this report is contained in the Observations section.

C. Observations

1. A review of the data clearly indicates that the T-9 site at McConnell AFB KS, was not good for acquiring far-field noise data. As depicted in Figure 1, the complete west side of the T-9 NSS is shielded by buildings 1108 and 1111, so no noise measurements could be made on that side. On the east side, building 1169 either completely blocked or interfered with measurements from 10° to 60°, and buildings 1180 and 1182 blocked or interfered with measurements from angles 100° to 170°. Noise measurements at all angles were affected to varying degrees due to reflection of the acoustic waves off these nearby buildings and the interaction of the reflected waves with the direct acoustic wave from the source. Sound levels in any particular band could be different from a free-field measurement by as much as ± 4 dB. This could throw the final A-weighted levels at some of these locations off by as much as ± 3 dB(A) from the effect of reflections alone.

2. Another possible problem with the data which cannot be quantified is the affect of collecting data under meteorological conditions outside of the desired parameters. Attempts were made to collect data only when the conditions of temperature, humidity, and wind speed were within the range specified by the AAMRL Standard Procedure. This was not always possible due to the importance placed on keeping the FAT on schedule, a restriction levied by the Test Directors. It was also unrealistic to delay the tests several days waiting for the weather to change at McConnell AFB KS, during the winter months. High wind speeds probably had the greatest adverse affect on the data due to the nearby buildings. The higher wind speeds would create even larger eddy currents around nearby buildings. These currents might have been outside of our wind speed tolerance, and we would not have known it since wind

velocity was measured at a single location. Noise signatures at measurement locations near these buildings would be distorted to some indeterminable extent in addition to the distortion caused by the reflection effects discussed above. The OMEGA programs do not correct for these types of effects.

3. All the noise data presented in this report were subject to interfering noise from highly active flight line operations. F-4 and KC-135 flyovers were routine, as were helicopters. Noise from ground support equipment and vehicular traffic seemed to be constant. Every effort was made to record samples of the noise from the T-9 NSS during the quietest periods, but for the most part this turned out to be a practical impossibility. Where it could be determined that an aircraft or helicopter flyover had adversely affected the recording, every effort was made to attempt to analyze a segment of the record with the least amount of outside interference.

4. Background noise readings were obtained at each measurement angle prior to starting each engine test run. A review of any of the Table "X".2, background power condition data tables will show the high level of the ambient noise environment existing during each test. Normally the OMEGA programs are equipped to eliminate background and electronic noise from the data. We chose not to apply the background noise corrections to the data because if applied, it would have created many blank tables. We therefore chose to present the background noise in a separate table, and the uncorrected measured results at all other engine power settings. To be able to identify a measured noise level as coming from a suspected source, the background or ambient noise levels should be very much quieter than the measured level. In practice background levels should be 10 or more decibels below the measured level. The OMEGA analysis programs look for a measured level at least 6 dB above background to be identified with any degree of reliability as coming from the measured source. On examining the background versus other power settings for any data set, we found only the measured results for power conditions of military power and afterburner power were reliable in terms of exceeding the background noise by the required 6 dB criteria. The engine power settings of idle and intermediate for all engines should not be relied on, but are included in this report since they are representative of the actual noise levels measured at McConnell AFB, under the given conditions.

III. CONCLUSIONS

A. The survey site at McConnell AFB, KS, was not the best location for the purpose of conducting a noise survey on the T-9 NSS. Although the location of this facility is ideal from the standpoint of locating the T-9 NSS close to the jet engine repair shop and the rest of the industrial complex of the base, the surrounding buildings and proximity to an active runway did not allow for the most accurate noise data collection.

B. Since we can not qualify the noise source characteristics of the data in this report (i.e., attribute all the measured noise levels as coming from only the T-9 NSS), we must emphasize the reported data can only be considered representative of the noise levels measured at the McConnell AFB T-9 NSS under

the given site location and weather conditions. The data in this report can not and should not be used for predicting noise levels in future siting applications at other installations.

C. Given the uncertainty level of the data as discussed above, it appears the T-9 NSS does not adequately suppress the noise output of four of the eight engines surveyed. The limiting criteria of 77 dB(A) was exceeded at one or more measurement locations for the TF30, F100, J85, and F101 engines.

IV. RECOMMENDATION

We recommend these noise data be recollected at some other location with better acoustic conditions in the future to establish data for noise level predictions.

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4. Lee, Robert A., T.H. Rau, and C. Jones, USAF Bioenvironmental Noise Data Handbook Volume 172: Hush-House Noise Suppressor (Aero Systems Engineering, Inc.) Far-Field Noise, AMRL-TR-75-50 (172), Armstrong Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio (1982)

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APPENDIX A
Far-Field Noise on the
J57-59W Engine

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TABLE 3.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
J57-59W ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 8 February 1986

Time of Test: 1415 Hrs

Engine Operation

Idle 65.0 %RPM

80 % 80.0 %RPM

Military Power 94.4 %RPM

Meteorology

Temperature -1 Deg C

Bar Pressure 0.727 M Hg

Rel Humidity 68 %

Wind - Speed 3 - 6 Knots

- Direction 340 Deg (True)

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:		
1/3 OCTAVE BAND		OMEGA 1.5		
DISTANCE = 100 METERS		TEST DP-OT9-100		
		RUN 05		
NOISE SOURCE/SUBJECT:		METEOROLOGY:		
(OPERATION:		TEMP = -1 C		
(BACKGROUND NOISE		BAR PRESS = 0.727 M HG		
(IN THE A/F32T-9 M88		REL HUMID = 68 X		
(MCCONNELL AFB, KANSAS				
(RUMUP IN THE A/F32T-9				
(FAR FIELD NOISE		PAGE 2		
FREQ		ANGLE (DEGREES)		
(HZ)		80	90	
		100	110	
		120	130	
		140	150	
		160	170	
		180		
25	59	57	59	55
31.5	59	58	59	56
40	57	57	57	55
50	57	57	59	61
63	59	60	59	57
80	61	61	57	60
100	68	67	62	65
125	63	62	65	61
160	55	56	56	54
200	55	61	57	58
250	49	52	54	56
315	45	48	50	49
400	45	47	51	49
500	45	45	45	47
630	44	47	48	50
800	45	47	48	49
1000	45	50	49	51
1250	46	50	52	47
1600	46	49	50	48
2000	45	45	45	44
2500	42	42	42	41
3150	38	38	40	37
4000	36	36	37	33
5000	33	34	36	29
6300	30	30	33	25
8000	28	26	29	22
10000	25	23	25	21
OVERALL	71	71	70	70

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																										
3.2 1/3 OCTAVE BAND		OMEGA 1.5																										
DISTANCE = 100 METERS		TEST DP-019-100																										
NOISE SOURCE/SUBJECT:		RUN 02																										
(J57-5910P) ENGINE		-1 C																										
(IN THE A/F327-9 N88		BAR PRESS = 0.727 M HG																										
(MCCONNELL AFB, KANSAS		REL HUMID = 68 %																										
(FAR FIELD NOISE		PAGE 2																										
		**																										
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180									
	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
	85	83	86	79	76	74	76	79	78	81	79	78	77	77	78	75	77	80										
	84	82	79	76	68	70	74	74	78	76	73	72	72	72	74	77	74	75										
	81	79	76	69	62	69	73	73	74	74	72	70	68	66	68	71	68	69										
	73	72	72	68	59	65	70	69	70	69	65	64	64	64	64	65	66	69										
	74	71	70	67	56	64	68	66	69	68	63	62	60	64	64	68	65	66										
	70	66	65	63	51	59	63	64	63	63	60	57	57	57	59	59	61	59										
	71	68	67	66	51	56	59	61	59	59	55	53	54	59	58	59	58	59										
	67	60	63	57	47	54	58	58	57	56	54	51	51	51	53	54	55	56										
	160	58	57	57	53	44	51	53	51	52	48	46	47	45	48	48	48	52										
	59	61	60	54	52	52	51	52	51	53	50	49	46	47	46	47	46	47										
	52	52	53	48	41	45	47	45	48	44	44	44	44	45	45	42	43	46										
	48	48	50	43	38	41	44	44	46	45	44	41	41	44	42	43	45	44										
	48	49	51	47	36	39	45	48	50	46	45	41	42	44	44	46	48	47										
	46	46	47	42	33	37	44	47	52	45	45	40	41	42	43	45	44	43										
	48	51	50	48	34	36	43	45	46	45	43	40	39	40	42	43	43	42										
	46	49	47	44	34	35	43	43	44	42	41	38	39	39	40	42	47	42										
	45	47	47	44	32	32	42	41	43	41	41	37	37	38	37	39	40	39										
	46	48	48	46	34	34	45	43	43	42	41	36	36	38	38	39	38	29										
	46	46	46	46	43	43	41	41	40	40	38	34	36	36	36	37	36	37										
	61	47	47	43	38	39	43	45	45	44	41	37	38	40	40	39	36	41										
	49	45	45	42	30	32	41	40	40	39	38	35	31	34	33	34	34	35										
	59	54	52	43	32	38	47	47	45	45	42	38	32	36	36	37	37	37										
	53	48	46	41	30	31	41	41	39	38	37	32	30	32	33	33	33	34										
	53	48	46	38	28	32	40	40	37	37	35	31	30	31	31	31	31	32										
	51	45	44	37	30	31	37	38	36	36	34	30	30	31	32	32	32	33										
	48	43	41	34	30	30	35	35	34	33	31	30	30	30	31	30	31	30										
OVERALL	89	87	87	82	77	77	80	81	82	83	82	80	79	78	80	80	80	82										

NO BACKGROUND CORRECTION APPLIED.

** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
3.2 1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-100																		
NOISE SOURCE/SUBJECT:		MILITARY PWR(94.4X RPM)																		
J57-59(GP) ENGINE		SINGLE ENGINE GROUND																		
IN THE A/F321-9 MSS		RUMUP IN THE A/F321-9																		
MCCONNELL AFB, KANSAS		MSS MCCONNELL AFB																		
FAR FIELD NOISE		MSS MCCONNELL AFB																		
FREQ		METEOROLOGY:																		
(HZ)		TEMP = -1 C																		
		BAR PRESS = 0.727 M HG																		
		REL HUMID = 68 X																		
		PAGE 2																		
		ANGLE (DEGREES)																		
		°°																		
25	87	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	86	85	84	82	80	78	83	83	83	82	85	83	83	80	83	85	83	83	84	85
40	86	86	81	81	76	79	81	83	84	84	84	83	81	79	81	82	87	86	86	86
50	82	79	79	74	68	75	79	78	80	79	77	77	75	74	77	80	84	82	84	84
63	85	82	80	74	69	74	79	80	81	81	81	79	77	74	76	79	79	79	81	81
80	78	78	74	72	64	72	78	79	78	80	80	76	73	69	70	73	72	75	76	76
100	76	73	73	67	62	70	72	73	73	73	73	70	67	65	67	69	71	73	72	72
125	73	69	71	62	57	69	69	71	71	71	71	67	64	62	64	64	66	66	71	70
160	70	66	67	57	54	63	65	68	68	68	68	66	60	61	60	62	61	68	66	66
200	67	65	63	58	55	66	63	66	67	66	66	62	59	60	61	61	59	64	63	63
250	64	61	60	53	51	58	59	61	64	63	63	58	57	58	60	60	60	62	59	59
315	66	62	64	56	48	56	57	62	67	63	67	67	56	58	61	63	63	65	60	60
400	61	58	58	54	46	54	57	60	66	62	61	55	58	58	61	63	66	68	64	64
500	61	59	59	53	45	51	57	60	67	61	61	55	58	58	60	63	65	64	62	62
630	60	59	58	53	43	51	55	58	63	60	60	60	53	56	58	61	62	62	61	61
800	61	60	59	54	42	49	56	58	63	59	59	54	53	53	55	58	58	60	60	60
1000	60	59	58	55	40	48	55	58	62	58	59	55	51	54	55	57	58	56	56	56
1250	60	58	60	54	40	49	54	58	60	58	58	55	50	53	54	56	56	57	55	55
1600	61	60	60	52	37	46	54	56	57	56	54	51	48	51	52	55	56	54	54	54
2000	61	61	60	52	39	48	54	58	60	58	58	57	48	50	52	53	53	54	53	53
3150	62	60	60	48	40	47	55	57	59	57	56	59	46	49	50	51	52	51	51	51
4000	57	56	55	43	43	43	53	55	56	56	56	54	56	43	47	47	49	50	49	49
5000	55	56	54	40	47	46	46	46	48	48	48	43	44	43	42	45	46	45	46	45
6300	54	55	53	40	44	44	46	46	45	45	45	43	41	42	40	43	44	43	44	43
8000	51	51	49	41	41	41	41	42	42	43	43	40	39	40	39	41	42	41	42	41
10000	49	49	46	39	41	41	39	41	41	41	40	40	39	38	40	39	40	41	40	40
OVERALL	93	92	89	86	82	85	88	89	90	90	90	88	87	85	87	89	91	90	91	91

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-100																	
NOISE SOURCE/SUBJECT:		OPERATION:																	
J57-59(OP) ENGINE		BACKGROUND NOISE																	
IN THE A/F32T-9 NSS		SINGLE ENGINE GROUND																	
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																	
FAR FIELD NOISE		NSS MCCONNELL AFB																	
METEOROLOGY:		TEMP = 15 C																	
		BAR PRESS = 0.760 H HG																	
		REL HUMID = 70 X																	
		PAGE 3																	
FREQ		ANGLE (DEGREES)																	
(HZ)		SS																	
25	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
59	59	57	59	55															
31.5	59	58	59	56															
40	57	57	57	55															
50	57	57	59	61															
63	59	60	59	57															
80	61	61	57	60															
100	68	67	62	65															
125	63	62	65	61															
160	55	56	56	54															
200	55	61	57	58															
250	49	52	54	56															
315	45	48	50	49															
400	45	47	51	49															
500	45	45	45	47															
630	44	47	48	50															
800	45	47	48	49															
1000	45	51	50	51															
1250	46	50	52	48															
1600	47	50	50	49															
2000	46	46	46	45															
2500	44	43	44	42															
3150	40	40	42	39															
4000	39	39	40	36															
5000	37	37	39	33															
6300	35	35	38	29															
8000	34	33	35	29															
10000	33	30	32	29															
OVERALL	71	71	70	70															

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-100																	
NOISE SOURCE/SUBJECT:		MUN 02																	
OPERATION:		METEOROLOGY:																	
J57-59(GP) ENGINE		TEMP = 15 C																	
IN THE A/F32T-9 NSS		BAR PRESS = 0.760 M HG																	
MCCONNELL AFB, KANSAS		REL HUMID = 70 X																	
FAR FIELD NOISE		PAGE 3																	
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	85	83	86	79	76	74	76	79	78	81	79	78	77	77	78	75	77	77	80
31.5	84	82	79	76	68	70	74	74	78	78	76	73	72	72	74	77	74	75	75
40	81	79	76	69	62	69	73	73	74	74	72	70	68	66	68	71	68	69	69
50	73	72	72	68	59	65	70	69	70	69	65	64	64	64	66	65	66	69	69
63	74	71	70	67	56	64	68	66	69	68	63	62	60	64	68	68	65	66	66
80	70	66	65	63	51	59	63	64	63	65	63	60	57	59	59	59	61	59	59
100	71	68	67	66	51	56	59	61	59	59	55	53	53	54	59	58	58	59	59
125	67	60	63	57	47	54	58	58	57	56	54	49	51	51	53	54	55	56	56
160	58	57	57	53	44	51	53	51	52	52	48	46	47	45	48	48	48	47	50
200	59	61	60	54	52	52	51	52	51	53	50	49	46	47	46	47	46	47	47
250	52	52	53	48	41	45	47	45	48	48	44	44	45	45	42	43	46	44	44
315	48	48	50	43	38	41	44	44	46	45	44	41	41	44	42	43	45	44	44
400	48	49	51	47	36	39	45	48	50	46	45	41	42	44	44	46	48	47	47
500	46	46	47	42	33	37	44	47	52	45	45	40	41	42	43	45	44	43	43
630	48	51	50	48	34	36	43	45	46	45	43	40	39	40	42	43	43	42	42
800	46	50	47	44	34	35	43	43	44	42	42	38	39	40	40	42	42	42	42
1000	45	47	47	44	32	33	42	42	43	41	41	37	37	38	38	39	40	39	39
1250	47	48	48	46	34	34	45	43	43	42	41	36	36	38	38	39	39	38	39
1600	47	46	47	44	32	34	42	42	41	41	38	35	36	36	36	37	37	37	38
2000	61	57	56	50	38	50	53	56	55	55	53	53	48	47	46	47	44	44	49
2500	52	49	48	44	39	41	45	47	47	46	45	43	39	40	41	41	41	37	42
3150	51	47	47	44	32	34	43	42	42	41	40	37	33	36	35	36	35	36	37
4000	61	57	55	46	35	41	50	50	48	48	45	41	35	39	39	40	38	40	40
5000	57	51	50	44	34	34	45	44	43	42	40	36	34	35	37	36	34	34	38
6300	57	52	51	43	33	36	45	45	42	42	39	36	34	35	36	35	34	34	36
8000	57	52	50	43	36	38	43	44	42	42	40	36	37	38	38	38	38	38	39
10000	55	50	49	42	37	38	42	43	41	40	39	37	38	38	38	38	38	38	39
OVERALL	89	87	86	82	77	77	81	82	82	84	82	80	79	79	80	80	80	80	82

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-100																	
NOISE SOURCE/SUBJECT:		RUN 03																	
(OPERATION:		05 MAR 67																	
(MILITARY PWR(94.4X MPH)		PAGE 3																	
(SINGLE ENGINE GROUND																			
(RUNUP IN THE A/F32T-9																			
(M55 MCCONNELL AFB																			
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	87	85	84	82	80	78	83	83	82	85	83	83	80	83	85	83	84	85	
31.5	86	86	81	81	76	79	81	83	84	84	83	81	79	81	82	87	86	86	
40	86	86	82	78	74	78	81	82	83	82	81	79	77	77	80	84	82	84	
50	82	79	79	74	68	75	79	78	80	79	77	75	74	76	79	79	79	81	
63	85	82	80	74	69	74	79	80	81	81	79	77	74	74	78	81	79	80	
80	78	78	74	72	64	72	78	79	78	80	76	73	69	70	73	72	75	76	
100	76	73	73	67	62	70	72	73	73	73	70	67	65	67	69	71	73	72	
125	73	69	71	62	57	69	69	71	71	71	67	64	62	64	64	66	62	71	70
160	70	66	67	57	54	67	63	68	68	68	66	60	61	60	62	61	68	66	
200	67	65	63	58	55	66	63	66	67	66	62	59	60	61	61	59	64	63	
250	64	61	60	53	51	58	59	61	64	63	58	57	58	60	60	60	62	59	
315	66	62	64	56	48	56	57	62	67	63	67	56	58	61	63	63	65	60	
400	61	58	58	54	46	54	57	60	66	62	61	55	58	61	63	66	68	64	
500	61	59	59	53	45	51	57	60	67	61	61	53	58	60	63	65	64	62	
630	60	59	58	55	43	51	55	58	63	60	60	53	56	58	61	62	62	61	
800	61	60	59	55	42	49	56	58	63	59	59	54	53	55	58	58	60	60	
1000	60	59	59	55	41	48	55	59	62	59	59	55	52	54	55	58	59	57	
1250	60	59	60	54	40	49	54	58	60	58	59	55	50	53	55	57	57	55	
1600	62	60	61	53	38	47	54	57	58	57	55	52	49	52	53	55	56	55	
2000	62	62	61	53	40	49	55	59	61	59	59	58	49	51	53	54	55	54	
2500	63	61	61	51	42	48	57	59	60	58	58	60	47	51	51	53	54	53	
3150	65	63	62	50	45	45	55	57	58	58	56	59	45	49	49	51	52	51	
4000	59	59	58	45	45	50	50	51	51	51	48	47	46	45	48	49	48	48	
5000	59	59	57	43	43	50	49	49	49	48	46	44	45	43	46	47	46	46	
6300	59	59	57	43	43	48	48	49	48	47	45	44	44	43	45	46	45	45	
8000	57	57	55	47	47	47	49	48	48	47	46	46	44	46	47	47	46	46	
10000	56	56	54	46	46	46	49	48	48	48	47	47	46	46	47	47	47	47	
OVERALL	93	92	89	86	82	85	88	89	90	90	89	87	85	87	89	91	91	91	

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)										IDENTIFICATION:	
3.4 DISTANCE = 100 METERS										OMEGA 1.5	
NOISE SOURCE/SUBJECT:										TEST DP-019-100	
(J57-59(GP) ENGINE (OPERATION:)										RUN 05	
(IN THE A/F321-9 N88 (BACKGROUND NOISE)										TEMP = 15 C	
(MCCONNELL AFB, KANSAS (SINGLE ENGINE GROUND)										BAR PRESS = 0.760 H HG	
(FAR FIELD NOISE (RUNUP IN THE A/F321-9)										REL HUMID = 70 %	
((NSS MCCONNELL AFB)										PAGE 4	
										**	
										ANGLE (DEGREES)	
										0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180	
HAZARD/PROTECTION											
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR											
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR											
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)											
NO PROTECTION											
OASLC 71 71 70 70											
OASLA 57 59 60 59											
T 1440 1440 1440 1440											
COMMUNICATION											
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)											
PSIL 48 50 52 50											
ANNOYANCE											
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)											
TONE CORRECTION (C IN DB)											
PNLT 73 73 73 72											
C 1 1 1 1											
** NO DATA COLLECTED.											

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																		
IDENTIFICATION:																		
3.4	DISTANCE = 100 METERS																	
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																		
J57-59(OP) ENGINE	(INTMD POWER(80.0X RPM)	(TEMP = 15 C																
IN THE A/F32T-9 NSS	(SINGLE ENGINE GROUND	BAR PRESS = 0.760 M HG																
MCCONNELL AFB, KANSAS	(RUNUP IN THE A/F32T-9	REL HUMID = 70 X																
FAR FIELD NOISE	(NSS MCCONNELL AFB																	
ANGLE (DEGREES)																		
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	86	84	84	79	73	74	78	78	80	80	78	77	75	75	77	78	77	78
OASLA	68	64	63	58	49	54	59	60	59	58	56	53	53	53	54	54	54	55
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	57	56	55	51	40	43	51	52	52	51	49	46	44	45	45	46	46	47
ANNNOYANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PNLT	88	83	82	75	64	73	77	79	79	79	78	75	71	71	71	72	70	73
C	4	3	3	2	2	4	3	4	4	4	4	5	4	3	3	3	2	3

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																
IDENTIFICATION:																
3.4 DISTANCE = 100 METERS																
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																
J57-59(GP) ENGINE (MILITARY PWR(94.4X RPM)) TEMP = 15 C																
IN THE A/F32T-9 N55 (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																
MCCONNELL AFB, KANSAS (RUMUP IN THE A/F32T-9) REL HUMID = 70 X																
FAR FIELD NOISE (N55 MCCONNELL AFB)																
PAGE 4																
HAZARD/PROTECTION																
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DB) AT EAR																
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DB) AT EAR																
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																
NO PROTECTION																
OASLC	91	89	87	84	79	83	86	87	88	88	86	84	82	84	86	89
OASLA	74	72	72	64	54	63	67	70	73	70	70	67	63	65	68	69
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																
PSIL	66	65	64	57	60	62	65	63	62	60	58	59	61	62	61	
ANNNOYANCE																
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																
TONE CORRECTION (C IN DB)																
PNLT	91	88	88	78	67	77	83	85	87	86	85	84	76	80	81	84
C	1	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
3.5 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-100																	
NOISE SOURCE/SUBJECT:		RUN 05																	
(J57-59(OP) ENGINE		METEOROLOGY:																	
(IN THE A/F32T-9 NSS		TEMP = 15 C																	
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																	
(FAR FIELD NOISE		REL HUMID = 70 X																	
(NSS MCCONNELL AFB		PAGE 5																	
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	63	62	63	60															
63	64	64	63	65															
125	69	68	67	67															
250	56	61	60	61															
500	50	51	54	54															
1000	50	54	55	54															
2000	51	52	51																
4000	44	44	46	41															
8000	39	38	41	34															
OVERALL	71	71	70	70															

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
3.5 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-079-100																	
NOISE SOURCE/SUBJECT:		RUN 02																	
J57-59(OP) ENGINE		METEOROLOGY:																	
IN THE A/F32T-9 N88		TEMP = 15 C																	
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																	
PAR FIELD NOISE		REL HUMID = 70 %																	
M88 MCCONNELL AFB		PAGE 5																	
FREQ	ANGLE (DEGREES)																		
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
31.5	89	86	87	81	77	76	80	81	82	83	81	80	79	78	80	80	80	82	
63	78	75	75	71	61	68	73	71	73	72	70	67	66	66	69	70	69	71	
125	73	69	69	67	53	59	62	63	62	61	58	55	56	56	60	59	60	61	
250	60	61	61	55	53	53	53	53	54	55	51	51	49	50	49	49	51	50	
500	52	54	54	51	40	42	49	52	55	50	49	45	45	47	48	50	51	49	
1000	51	53	52	50	38	39	48	48	48	47	46	42	42	43	44	45	48	45	
2000	62	58	57	52	42	51	54	57	56	56	55	53	49	48	48	48	45	50	
4000	63	58	57	50	39	42	52	52	50	49	47	43	39	42	42	42	41	43	
8000	61	56	55	47	41	42	48	49	47	46	44	41	41	42	42	42	41	43	
OVERALL	89	87	88	82	77	77	81	82	82	84	82	80	79	79	80	80	80	82	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:	
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5	TEST DP-0T9-100
NOISE SOURCE/SUBJECT:		RUN 03	
(OPERATION:		05 MAR 87	
(MILITARY PWR(94.4X RPM)		PAGE 5	
(SINGLE ENGINE GROUND			
(RUNUP IN THE A/F32T-9			
(N88 MCCONNELL AFB			
METEOROLOGY:			
(TEMP = 15 C			
(BAR PRESS = 0.760 M HG			
(REL HUMID = 70 %			
FREQ (HZ)	ANGLE (DEGREES)		
0	350	340	330
31.5	91	87	85
63	87	79	72
125	78	75	69
250	71	68	61
500	66	63	59
1000	65	64	59
2000	67	66	64
4000	66	65	64
8000	62	63	61
OVERALL	93	92	89
		86	82
		85	88
		89	90
		87	85
		87	89
		87	89
		89	91
		88	91
		89	91
		87	89
		84	86
		78	79
		68	70
		64	66
		59	62
		60	57
		62	53
		57	59
		52	51
		50	48
		51	50
		52	51
		51	51

** NO DATA COLLECTED.

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APPENDIX B
Far-Field Noise on the
TF33-P3 Engine

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TABLE 4.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
TF33-P3 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 13 February 1986

Time of Test: 1000 Hrs

Engine Operation

Idle 57.3 %RPM

80 % 80.3 %RPM

Military Power 99.0 %RPM

Meteorology

Temperature -2 Deg C

Bar Pressure 0.727 M Hg

Rel Humidity 67 %

Wind - Speed 4 - 6 Knots
(Gusts to 15)

- Direction 170 Deg (True)

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-019-200																		
NOISE SOURCE/SUBJECT:		RUM OS																		
TF33-P3(GP) ENGINE		METEOROLOGY:																		
IN THE A/F327-9 MSS AT		TEMP = -2 C																		
MCCONNELL AFB-KANSAS		BAR PRESS = 0.727 M HG																		
FAR FIELD NOISE		REL HUMID = 67 %																		
		PAGE 2																		
		**																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
25	69	74	74	72	66	68	63	64	70	71	69	72	70	69	68	64				
31.5	68	72	71	71	65	65	63	62	68	71	67	72	71	74	70	71				
40	66	71	71	69	63	62	63	60	64	68	66	66	68	68	65	61				
50	66	70	69	68	60	60	59	59	64	67	64	65	66	67	65	61				
63	70	72	69	68	58	58	57	57	61	65	63	62	64	64	62	60				
80	67	67	66	70	54	54	55	54	58	63	61	60	62	62	60	58				
100	71	69	67	70	54	52	53	53	58	59	60	57	61	61	58	57				
125	65	65	66	66	55	50	53	54	54	55	54	52	56	58	56	57				
160	63	62	64	65	47	48	47	47	50	52	50	49	53	53	52	53				
200	65	64	67	64	48	49	50	52	55	56	53	50	53	51	52	52				
250	62	59	62	61	46	47	50	50	57	55	54	48	54	52	51	50				
315	62	59	62	63	43	44	46	46	48	50	50	48	57	56	55	52				
400	64	61	62	66	43	48	49	49	49	51	53	50	57	57	56	52				
500	65	58	62	67	41	46	46	48	48	49	50	50	55	56	55	51				
630	65	59	62	68	39	40	43	46	48	47	49	49	56	59	54	52				
800	66	60	64	69	39	39	44	45	49	48	50	50	58	59	55	54				
1000	67	61	65	67	37	37	43	44	46	47	47	49	57	57	55	52				
1250	66	60	64	66	36	36	46	45	45	46	46	49	57	56	55	51				
1600	62	57	62	62	34	33	41	41	42	43	43	44	54	52	52	48				
2000	61	55	60	60	31	30	38	38	39	40	39	42	49	47	49	43				
2500	56	52	57	56	30	27	38	35	35	38	36	40	44	43	45	41				
3150	51	48	54	52	28		36	32	32	35	33	37	40	38	40	35				
4000	47	44	49	49			33	29	29	32	31	34	37	34	34	33				
5000	42	41	44	44			31	28	28	32	31	32	36	33	31	30				
6300	37	37	40	39			31			32	31	31	35	31	31	32				
8000	33	34	37	36			31			32	33	32	33	35	32	35				
10000	31	32	33	33			29			32	32	32	32	32	32	33				
OVERALL	79	80	80	81	71	71	69	69	74	76	74	76	76	77	75	74				

NO BACKGROUND CORRECTION APPLIED.
** NO DATA COLLECTED.

TABLE		MEASURED SOUND PRESSURE LEVEL (DB)																	IDENTIFICATION:			
4.2		1/3 OCTAVE BAND																	OMEGA 1.5			
		DISTANCE = 100 METERS																	TEST DP-019-200			
NOISE SOURCE/SUBJECT:		OPERATION:																	RUN 01			
TF33-P3(OP) ENGINE		FLIGHT IDLE(57.3k RPM)																				
IN THE A/F32T-9 MISS AT		SINGLE ENGINE GROUND																	-2 C			
MCCONNELL AFB,KANSAS		RUMUP IN THE A/F32T-9																	BAR PRESS = 0.727 H HG			
FAR FIELD NOISE		MSS MCCONNELL AFB																	REL HUMID = 67 %			
		MCCONNELL AFB																	PAGE 2			
FREQ		ANGLE (DEGREES)																	**			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
25	68	73	67	67	77	69	68	69	70	68	66	65	68	71	66	65	65	67	65			
31.5	67	71	67	74	67	66	66	68	68	67	64	64	64	68	69	70	69	69	73	71		
40	63	70	64	72	67	64	64	65	66	67	63	62	66	66	67	69	69	70	66			
50	64	68	66	70	66	61	61	65	65	67	63	62	67	67	67	69	69	71	73			
63	70	72	67	69	64	60	60	64	62	67	63	62	64	66	64	65	65	68	70			
80	65	67	65	67	61	59	59	59	59	62	66	58	57	62	63	60	62	66	65			
100	68	69	68	67	59	61	61	62	63	64	61	56	59	60	57	58	62	64				
125	70	69	71	69	59	55	55	56	58	61	56	53	55	56	54	55	59	61				
160	70	69	71	71	60	53	53	52	52	57	49	50	52	52	49	50	54	59				
200	67	67	69	68	61	51	51	52	54	58	51	49	54	50	50	47	51	58				
250	61	61	64	62	60	50	50	51	52	58	46	46	49	48	46	46	46	51	60			
315	58	60	61	59	60	48	48	48	47	57	45	45	48	47	46	45	52	58				
400	57	59	57	59	58	48	48	48	47	53	44	45	49	47	47	44	53	59				
500	57	58	57	58	55	46	46	49	47	50	43	44	47	46	48	43	54	60				
630	60	62	59	63	52	45	45	46	44	49	43	43	48	46	47	43	54	57				
800	60	61	58	60	49	43	43	45	45	47	42	43	45	44	45	41	52	56				
1000	60	62	61	60	45	41	41	45	44	44	42	42	46	43	44	40	50	54				
1250	59	61	62	58	43	40	40	43	44	43	41	40	42	41	41	39	48	52				
1600	57	57	58	54	45	36	36	40	39	38	36	36	39	38	36	36	45	49				
2000	57	58	58	55	43	34	34	39	38	37	35	35	36	37	35	34	43	46				
2500	55	56	55	55	37	33	33	38	37	36	38	38	36	37	35	35	41	43				
3150	54	54	54	56	33	31	31	37	35	33	33	33	33	33	32	30	39	40				
4000	52	52	53	56	30	28	28	36	33	31	30	30	32	32	31	28	34	35				
5000	51	52	52	56	28	28	28	34	32	31	32	32	33	33	31	29	32	32				
6300	48	50	50	55	28	28	28	33	32	28	30	30	31	31	30	28	29	29				
8000	50	51	53	59	28	28	28	33	33	27	30	30	32	30	31	28	29	29				
10000	45	47	49	55	28	28	28	31	31	27	28	28	29	27	30	27	28	28				
OVERALL	78	80	79	82	75	73	73	74	75	76	72	71	74	76	75	75	75	78				

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
4.2		TEST DP-019-200																		
DISTANCE = 100 METERS		RUN 02																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(OPERATION:		TEMP = -2 C																		
(INTMD POWER (90.32 RPM)		BAR PRESS = 0.727 M HG																		
(IN THE A/F327-9 N55 AT		REL HUMID = 67 %																		
(SINGLE ENGINE GROUND		PAGE 2																		
(MCCONNELL AFB, KANSAS																				
(RUNUP IN THE A/F327-9																				
(FAR FIELD NOISE																				
(N55 MCCONNELL AFB																				
FREQ	ANGLE (DEGREES)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	81	80	79	74	71	70	71	70	71	70	72	73	72	70	71	69	73	74		
31.5	80	80	73	72	68	67	70	70	71	70	70	70	70	69	68	70	68	69	68	
40	74	75	70	70	65	65	68	71	69	68	68	68	68	67	66	65	66	68	66	
50	71	69	69	71	63	62	66	67	66	65	65	65	65	66	64	63	61	70	69	
63	72	72	69	72	62	62	65	69	64	64	64	64	64	66	62	61	64	70	78	
80	67	67	66	70	63	60	61	66	61	60	60	60	60	63	60	57	59	70	74	
100	68	71	67	70	58	62	59	63	64	57	59	57	56	59	57	56	57	69	67	
125	69	70	70	71	55	55	55	59	60	59	55	54	54	56	55	53	55	68	60	
160	69	70	70	72	50	51	55	58	56	51	50	50	52	53	55	49	52	66	56	
200	66	68	69	70	51	53	54	55	57	52	50	50	51	51	51	50	49	60	53	
250	60	62	62	65	48	51	51	53	55	49	49	49	51	50	50	50	49	60	56	
315	57	58	60	64	45	47	52	53	51	47	48	48	52	47	47	47	48	61	55	
400	56	58	58	61	44	44	49	50	52	51	47	47	51	48	48	48	48	61	55	
500	55	58	58	60	43	47	49	51	49	46	48	48	46	48	47	47	47	60	53	
630	58	62	63	64	42	46	49	50	47	46	49	46	49	47	47	49	46	53	52	
800	58	61	63	62	41	44	48	47	49	44	45	45	45	45	46	46	44	53	50	
1000	59	61	65	62	40	42	47	46	47	43	44	44	45	45	46	46	43	50	48	
1250	59	61	65	59	40	42	46	46	46	47	43	43	42	42	43	43	41	47	46	
1600	57	58	59	56	37	38	44	43	44	41	38	38	40	42	43	38	38	44	43	
2000	64	64	63	58	44	46	54	57	56	51	47	47	39	40	40	41	41	44	47	
2500	58	58	57	55	37	39	46	48	47	43	40	40	35	39	39	36	40	42		
3150	55	55	56	56	32	33	42	40	40	37	35	33	33	36	33	33	37	39		
4000	59	57	57	58	30	35	45	43	42	38	36	36	30	31	32	33	34	36		
5000	55	53	54	57	30	30	40	39	37	35	33	33	29	28	33	31	31	33		
6300	54	52	53	57	29	39	38	35	35	31	28	28	28	32	30	30	31			
8000	52	52	55	60		36	35	32	33	30	28	28	28	32	31	30	31			
10000	49	48	51	56		32	32	29	32	27	27	27	27	31	30	30	30			
OVERALL	85	85	82	82	75	74	76	77	77	77	76	76	74	75	74	74	79	81		

NO BACKGROUND CORRECTION APPLIED.
 NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-200																		
NOISE SOURCE/SUBJECT:		RUN 03																		
(OPERATION:		METEOROLOGY:																		
(MILITARY POWER(90.0X RPM)		TEMP = -2 C																		
(SINGLE ENGINE GROUND		BAR PRESS = 0.727 H MG																		
(RUNUP IN THE A/F32T-9		REL HUMID = 67 X																		
(NSS MCCONNELL AFB		PAGE 2																		
FREQ		ANGLE (DEGREES)																		
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
25	88	88	87	83	81	80	82	84	83	84	83	80	78	82	82	80	80	81	83	
31.5	89	86	85	81	78	79	81	82	83	83	82	79	77	79	79	83	82	82	82	
40	87	88	83	78	74	76	81	81	82	81	79	76	75	75	78	81	81	79	81	
50	83	82	80	76	72	75	77	78	80	78	77	74	73	75	77	76	79	79	79	
63	86	83	79	74	71	74	76	76	78	77	76	73	73	72	75	78	77	77	77	
80	79	79	75	70	66	71	75	74	75	77	72	69	70	68	71	71	74	74	74	
100	75	74	73	68	63	70	71	68	69	71	68	65	66	67	68	70	72	70	70	
125	75	73	73	71	58	67	69	67	68	70	66	61	62	63	65	67	70	68	68	
160	73	72	71	73	58	63	65	66	65	66	62	59	58	64	65	68	66	66	66	
200	71	71	69	70	57	61	62	65	65	65	60	59	57	56	62	63	66	64	64	
250	66	68	64	65	54	60	58	60	63	64	58	57	55	56	61	57	61	59	59	
315	63	66	61	65	50	59	56	58	60	62	56	55	54	54	60	55	60	60	60	
400	62	64	61	63	49	55	54	58	58	60	57	54	55	57	59	58	62	63	63	
500	61	63	61	61	47	51	53	56	57	58	57	55	55	56	59	58	60	60	60	
630	62	65	65	65	45	50	51	55	56	57	56	53	54	56	57	58	59	59	60	
800	61	63	64	62	44	49	50	54	55	54	55	52	52	54	56	58	60	60	60	
1000	62	63	64	63	41	48	50	53	53	53	54	51	51	53	55	57	58	57	57	
1250	62	62	62	60	39	47	49	53	53	52	49	51	51	52	53	54	56	54	54	
1600	60	60	59	57	37	45	47	51	51	50	50	47	47	50	51	53	54	52	52	
2000	60	60	59	58	37	44	47	52	51	49	48	45	45	48	49	51	52	50	50	
2500	59	59	58	57	37	42	46	51	50	48	47	45	43	45	47	49	49	48	48	
3150	62	60	60	58	38	41	48	52	49	47	46	44	39	42	44	46	46	46	46	
4000	60	58	58	59	38	46	50	46	45	43	41	41	39	42	39	43	43	43	43	
5000	57	55	56	58	43	43	46	42	42	41	38	41	41	41	41	41	41	41	41	
6300	57	55	55	57	42	42	45	41	40	38	38	40	40	41	41	41	41	41	41	
8000	56	55	56	61	40	43	43	39	38	38	38	40	40	41	41	41	41	41	41	
10000	52	51	53	57	40	43	43	39	38	38	38	40	40	41	41	41	41	41	41	
OVERALL	94	93	91	87	84	85	87	88	89	89	87	84	83	85	86	87	86	87	86	88

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																				
1/3 OCTAVE BAND		OMEGA 1.5																				
DISTANCE = 100 METERS		TEST DP-019-200																				
NOISE SOURCE/SUBJECT:		MSS MCCONNELL AFB																				
OPERATION:		METEOROLOGY:																				
BACKGROUND NOISE		TEMP = 15 C																				
SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																				
RUNUP IN THE A/F32T-9		REL HUMID = 70 %																				
MSS MCCONNELL AFB		PAGE 3																				
FAR FIELD NOISE																						
FREQ		ANGLE (DEGREES)																				
(	(	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180)	
(	(	69	74	74	72	66	68	63	64	70	71	69	72	70	69	68	64)
(	(	68	72	71	71	65	65	63	62	68	71	67	72	71	74	70	71)
(	(	40	66	71	71	69	63	62	60	66	68	66	66	68	68	65	61)
(	(	50	66	70	69	68	60	59	59	64	67	64	65	66	67	65	61)
(	(	63	70	72	69	68	58	57	57	61	65	63	62	64	64	62	60)
(	(	80	67	67	66	70	54	54	58	58	63	61	60	62	62	60	58)
(	(	100	71	69	67	70	54	52	53	58	59	60	57	61	61	58	57)
(	(	125	65	65	66	66	55	50	54	54	55	54	52	56	58	56	57)
(	(	160	63	62	64	65	47	48	47	50	52	50	49	53	53	52	53)
(	(	200	65	64	67	64	48	49	50	52	55	50	50	53	51	52	52)
(	(	250	62	59	62	61	46	47	50	50	57	54	48	54	52	51	50)
(	(	315	62	59	62	63	43	44	46	48	50	50	48	57	56	55	52)
(	(	400	64	61	62	66	43	48	49	49	51	53	50	57	57	56	52)
(	(	500	65	58	62	67	41	46	46	48	49	50	50	55	56	55	51)
(	(	630	65	59	62	68	39	40	43	46	49	47	49	50	56	59	54)
(	(	800	66	60	64	68	39	39	44	45	49	48	50	50	58	59	55)
(	(	1000	67	61	65	68	37	37	43	45	46	47	47	49	57	57	53)
(	(	1250	66	61	65	66	36	37	46	45	45	46	46	49	57	56	52)
(	(	1600	63	58	63	63	34	34	41	42	43	44	44	45	54	53	49)
(	(	2000	62	56	61	61	33	31	40	39	40	41	40	43	50	48	50)
(	(	2500	58	53	59	58	32	29	40	37	37	40	38	42	46	45	47)
(	(	3150	54	50	56	54	30		39	35	35	37	35	39	42	40	42)
(	(	4000	50	48	53	52			37	32	33	36	35	37	40	38	37)
(	(	5000	46	45	48	48			35	35	36	35	36	40	37	35	34)
(	(	6000	42	42	46	45			36	36	37	37	37	40	37	36	38)
(	(	8000	40	40	43	43			37	37	38	39	38	40	41	38	41)
(	(	10000	38	39	40	40			35	39	39	39	39	39	39	38	40)
(	(	OVERALL	80	80	80	81	71	71	69	69	74	74	76	76	77	75	74)

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)													IDENTIFICATION:						
1/3 OCTAVE BAND													OMEGA 1.5						
DISTANCE = 100 METERS													TEST DP-019-200						
NOISE SOURCE/SUBJECT:													RUN 01						
OPERATION:													METEOROLOGY:						
TF33-P3(GP) ENGINE													TEMP = 15 C						
IN THE A/F32T-9 N55 AT													BAR PRESS = 0.760 M HG						
MCCONNELL AFB-KANSAS													REL HUMID = 70 X						
FAR FIELD NOISE													PAGE 3						
FREQ													**						
(Mhz)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	68	73	67	77	69	68	69	70	68	66	65	68	71	66	65	67	65		
31.5	67	71	67	74	67	66	68	68	67	64	64	68	69	70	69	73	71		
40	63	70	64	72	67	64	65	66	67	63	62	66	66	67	69	70	66		
50	64	68	66	70	66	61	65	65	67	63	62	67	67	67	69	71	73		
63	70	72	67	69	64	60	64	62	67	63	62	64	66	64	65	68	70		
80	65	67	65	67	61	59	62	66	58	57	62	63	60	62	66	65			
100	68	69	68	67	59	61	62	63	64	61	56	59	60	57	58	62	64		
125	70	69	71	69	59	55	56	58	61	56	53	55	56	54	55	59	61		
160	70	69	71	71	60	53	52	52	54	58	51	49	54	50	47	51	58		
200	67	67	69	68	61	51	52	54	58	51	49	54	50	50	47	51	58		
250	61	61	64	62	60	50	51	52	58	46	45	49	48	46	46	51	60		
315	58	60	61	59	60	48	48	47	57	45	45	48	47	46	45	52	58		
400	57	59	57	59	58	48	48	47	53	44	43	49	47	47	44	53	59		
500	57	58	57	58	55	46	49	47	50	43	44	47	46	48	43	54	60		
630	60	62	59	63	53	46	46	44	49	43	44	49	46	47	43	54	58		
800	60	61	58	60	49	43	43	45	47	42	43	45	44	45	41	52	56		
1000	60	62	61	61	45	42	43	44	45	42	42	46	43	44	40	51	54		
1250	60	61	62	58	43	40	43	43	43	41	40	42	41	42	39	48	52		
1600	58	58	59	55	46	37	40	40	39	37	37	39	39	38	36	46	49		
2000	58	59	59	56	45	35	41	39	38	37	36	37	38	37	35	44	47		
2500	57	57	57	56	39	35	39	39	38	39	40	37	38	37	37	43	44		
3150	56	57	57	58	35	34	40	37	36	35	34	35	37	35	33	42	43		
4000	55	56	57	60	34	32	39	36	34	33	33	36	35	34	32	38	38		
5000	55	56	56	60	32		38	36	35	36	36	37	35	38	33	36	36		
6300	53	55	55	60			38	34	36	35	35	37	36	38	33	34	34		
8000	56	58	59	65			40	34	36	36	34	38	36	37	34	36	36		
10000	52	54	56	62			38					36	34	36	34	34	35		
OVERALL	79	80	79	82	75	73	74	75	76	72	71	74	76	75	75	78	78		

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
4.3 1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-200																	
NOISE SOURCE/SUBJECT:		RUN 02																	
(TF35-P3(OP) ENGINE		METEOROLOGY:																	
(IN THE A/F327-9 N55 AT		TEMP = 15 C																	
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																	
(FAR FIELD NOISE		REL HUMID = 70 X																	
(NSS MCCONNELL AFB		PAGE 3																	
FREQ		**																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	81	80	79	74	71	70	71	70	72	73	72	72	70	71	69	73	74		
31.5	80	80	73	72	68	67	70	70	71	70	70	69	68	70	68	69	68		
40	74	75	70	70	65	65	68	71	69	68	68	67	66	65	66	68	66		
50	71	69	69	71	63	62	66	67	66	65	65	66	64	63	61	70	69		
63	72	72	69	72	62	62	65	69	64	64	64	66	62	61	64	70	78		
80	67	67	66	70	63	60	61	65	61	60	60	63	60	57	59	70	74		
100	68	71	67	70	58	62	59	63	64	57	59	59	57	56	57	69	67		
125	69	70	70	71	55	55	59	60	59	55	54	56	55	53	55	68	60		
160	69	70	70	72	50	51	55	58	56	51	50	53	55	49	52	66	56		
200	66	68	69	70	51	53	54	55	57	52	50	51	51	50	49	60	55		
250	60	62	62	65	48	51	51	53	55	49	49	51	50	50	49	60	56		
315	57	58	60	64	45	47	52	53	51	47	48	52	47	47	48	61	55		
400	56	58	58	61	44	49	50	52	51	47	47	51	48	48	48	61	55		
500	55	58	58	60	43	47	49	51	49	46	48	46	48	47	47	60	53		
630	58	62	63	64	42	47	50	50	48	46	49	47	47	49	46	56	52		
800	58	61	63	62	41	44	48	47	49	44	45	45	46	46	44	53	50		
1000	59	62	66	62	40	43	47	46	47	43	45	45	45	46	43	50	49		
1250	59	61	65	59	40	42	47	46	47	44	43	43	43	43	41	48	47		
1600	58	59	60	57	38	39	45	43	44	42	39	41	42	38	39	45	45		
2000	65	63	64	59	45	48	55	58	58	52	48	40	42	41	42	45	48		
2500	60	59	59	57	39	41	48	49	49	45	41	37	40	40	38	42	44		
3150	58	57	58	58	34	35	44	43	42	40	37	35	38	36	36	40	42		
4000	63	60	60	61	34	38	49	46	46	42	39	34	35	35	36	37	39		
5000	59	57	58	61	34	34	44	43	41	39	37	33	32	37	35	35	37		
6300	60	57	59	62	34	34	45	43	41	40	37	33	37	36	36	36	36		
8000	59	59	62	67	34	34	43	41	38	39	37	35	38	37	36	37	37		
10000	56	55	58	63	39	39	39	35	38	34	34	34	38	38	36	37	37		
OVERALL	85	85	83	82	75	74	76	77	77	77	76	74	74	75	74	79	81		

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-0T9-200																		
NOISE SOURCE/SUBJECT:		RUN 03																		
(OPERATION:		METEOROLOGY:																		
(MILITARY POWER(90.0X APH)		TEMP = 15 C																		
(SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																		
(MCCONNELL AFB, KANSAS		REL HUMID = 70 X																		
(RUNUP IN THE A/F32T-9		PAGE 3																		
(FAR FIELD NOISE		M88 MCCONNELL AFB																		
FREQ		ANGLE (DEGREES)																		
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
(25	88	88	87	83	81	80	82	84	83	84	83	80	78	82	82	80			81	83
(31.5	89	86	85	81	78	79	81	82	83	83	82	79	77	79	79	83			82	82
(40	87	88	83	78	74	76	81	81	82	81	79	76	75	75	78	81			81	79
(50	83	82	80	76	72	75	77	78	80	78	77	74	73	75	77	76			79	79
(63	86	83	79	74	71	74	76	76	78	77	76	73	72	75	78	77			77	77
(80	79	79	75	70	66	71	75	74	75	77	72	69	70	68	71	71			74	74
(100	75	74	73	68	63	70	71	68	69	71	68	65	66	67	68	70			72	70
(125	75	73	73	71	58	67	69	67	68	70	66	61	62	63	66	67			70	68
(160	73	72	71	73	58	63	65	66	65	66	62	59	58	58	64	65			68	66
(200	71	71	69	70	57	61	62	65	65	66	60	59	57	56	62	63			66	64
(250	66	68	64	65	54	60	58	60	63	64	58	57	55	56	61	57			61	59
(315	63	66	61	65	50	59	56	58	60	62	56	55	54	54	60	55			60	60
(400	62	64	61	63	49	55	54	58	58	60	57	54	55	57	59	58			62	63
(500	61	63	61	61	47	51	53	56	57	58	57	55	55	56	59	58			60	60
(630	62	65	65	65	45	50	52	55	56	57	56	53	54	56	57	58			59	60
(800	62	63	64	63	44	49	50	54	55	55	52	52	52	54	56	58			60	60
(1000	62	63	64	64	42	48	50	53	54	53	54	51	52	53	56	57			58	57
(1250	63	63	63	61	39	47	49	53	54	52	53	49	51	52	54	55			57	54
(1600	61	61	60	58		46	48	52	51	51	50	47	48	50	52	54			55	52
(2000	61	61	60	59	38	45	48	53	52	50	49	46	46	49	50	52			53	51
(2500	61	61	60	59		44	48	52	51	50	49	47	44	47	48	51			51	50
(3150	64	63	63	60		44	51	55	51	50	48	46	44	46	48	49			49	48
(4000	64	62	62	62		41	49	53	49	48	46	44	42	44	46	47			47	47
(5000	61	59	60	62		47	49	46	46	46	44	44	43	45	45	45			45	45
(6300	63	60	61	63		48	50	46	45	43	43	43	43	43	43	43			43	43
(8000	62	61	63	67		46	46	49	45	44	44	44	44	44	44	43			43	43
(10000	59	57	59	64		46	49	45	45	44	44	44	44	44	43	43			43	43
(OVERALL	94	94	91	87	84	85	87	88	89	89	87	85	83	85	86	87			88	88

** NO DATA COLLECTED.

((TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)) IDENTIFICATION:)
 (4.4 DISTANCE = 100 METERS))
 (NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:)
 (TF33-P3(GP) ENGINE (BACKGROUND NOISE) TEMP = 15 C)
 (IN THE A/F32T-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG)
 (MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X)
 (FAR FIELD NOISE (NSS MCCONNELL AFB)) PAGE 4)
 ()
 (0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180) **
 (HAZARD/PROTECTION) ANGLE (DEGREES)
 (C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR)
 (A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR)
 (LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82))
 (NO PROTECTION)
 (OASLC 79 79 79 80 68 69 67 67 72 73 72 73 74 75 73 71 78 77)
 (OASLA 74 69 73 75 49 50 54 54 56 57 57 58 65 65 63 60 68 63)
 (T 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440)
 (COMMUNICATION)
 (PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB))
 (PSIL 66 61 65 67 47 46 47 46 47 49 48 50 56 56 55 52 58 53)
 (ANNOYANCE)
 (PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHDB))
 (TONE CORRECTION (C IN DB))
 (PNLT 86 82 85 85 61 61 68 65 69 70 70 70 76 76 74 71 78 76)
 (C 1 1 1 0 1 0 1 1 1 1 1 0 0 0 1 0 0 1)
 (** NO DATA COLLECTED.)

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																					
4.4 DISTANCE = 100 METERS																					
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) IDENTIFICATION:																					
TF33-P3(GP) ENGINE	(	FLIGHT IDLE(57.3k RPM)	)	TEMP = 15 C	)	OMEGA 1.5	)	TEST DP-0T9-200	)	RUN 01)										
IN THE A/F32T-9 NSS AT	(	SINGLE ENGINE GROUND	)	BAR PRESS = 0.760 M HG	)	05 MAR 87)))										
MCCONNELL AFB, KANSAS	(	RUMUP IN THE A/F32T-9	)	REL HUMID = 70 %))))										
FAR FIELD NOISE	(	NSS MCCONNELL AFB	)		)	PAGE 4)))										
	(	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
	(	** ANGLE (DEGREES)																			
	(** **																			
HAZARD/PROTECTION																					
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																					
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																					
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																					
NO PROTECTION																					
OASLC	78	79	78	80	73	70	72	72	74	70	69	72	73	73	73	76	77				
OASLA	70	71	71	72	61	53	55	55	58	53	52	55	54	54	52	60	64				
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440				
COMMUNICATION																					
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																					
PSIL	63	64	63	64	50	44	48	47	47	44	45	46	46	46	43	52	55				
ANNOYANCE																					
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHDB)																					
TONE CORRECTION (C IN DB)																					
PNLT	84	85	85	88	73	66	70	69	71	67	67	69	68	67	66	72	76				
C	1	1	1	1	0	1	1	0	0	1	1	1	0	0	1	0	0				

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																		
												IDENTIFICATION:						
4.4	DISTANCE = 100 METERS											OMEGA 1.5						
NOISE SOURCE/SUBJECT: (OPERATION:)												TEST DP-0T9-200						
TF33-P3(GP) ENGINE (INTMD POWER (60.3K RPM))												RUN 02						
IN THE A/F321-9 MSS AT (SINGLE ENGINE GROUND)												05 MAR 87						
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F321-9)																		
FAR FIELD NOISE (MSS MCCONNELL AFB)												PAGE 4						
METEOROLOGY: TEMP = 15 C																		
BAR PRESS = 0.760 H HG																		
REL HUMID = 70 X																		
ANGLE (DEGREES) **												**						
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	82	83	80	81	72	72	74	75	74	74	73	74	72	72	72	72	78	80
OASLA	72	72	74	73	53	55	61	62	62	57	56	55	55	55	54	54	64	61
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	64	65	66	65	44	47	54	54	53	49	49	46	47	47	46	53	52	
ANNOYANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PNLT	89	89	89	89	69	72	79	81	80	75	73	69	67	68	69	77	78	
C	2	2	1	1	2	3	3	4	4	3	3	0	0	0	1	0	1	

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																				
												IDENTIFICATION:								
4.4	DISTANCE = 100 METERS												OMEGA 1.5							
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:													TEST DP-019-200							
(TF33-P3(OP) ENGINE (MILITARY POWER(90.0X RPM)) TEMP = 15 C													RUN 03							
(IN THE A/F32T-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG													05 MAR 87							
(MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X													PAGE 4							
(FAR FIELD NOISE (NSS MCCONNELL AFB)																				
ANGLE (DEGREES)																				
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
HAZARD/PROTECTION																				
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																				
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																				
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82):																				
NO PROTECTION																				
OASLC	92	91	88	85	81	83	85	86	86	87	85	82	81	82	84	85			86	86
OASLA	75	74	74	74	56	62	64	66	66	66	64	62	62	63	65	66			68	67
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440			1440	1440
COMMUNICATION																				
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																				
PSIL	67	67	67	66	51	55	59	58	57	56	54	56	58	56	58				60	59
ANNOYANCE																				
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																				
TONE CORRECTION (C IN DB)																				
PNLT	91	90	89	90	68	76	79	82	81	82	79	74	74	74	78	80			81	81
C	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0			0	1

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
OCTAVE BAND		OMEGA 1.5																	
4.5		TEST DP-019-200																	
DISTANCE = 100 METERS		RUN 05																	
NOISE SOURCE/SUBJECT:		METEOROLOGY:																	
(OPERATION:		TEMP = 15 C																	
(TF33-P3(OP) ENGINE		BAR PRESS = 0.760 M HG																	
(IN THE A/F32T-9 MSS AT		REL HUMID = 70 X																	
(MCCONNELL AFB, KANSAS		PAGE 5																	
(FAR FIELD NOISE																			
FREQ		ANGLE (DEGREES)																	
((HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
((31.5	73	77	77	76	70	71	68	67	73	74	73	75	74	76	73	72	78	77	
((63	73	75	73	73	63	62	62	62	66	70	68	68	69	70	68	65	74	73	
((125	72	71	71	72	58	55	57	58	60	61	61	59	63	63	61	61	69	70	
((250	68	66	69	67	51	52	54	55	59	59	57	53	60	59	58	56	62	58	
((500	69	64	67	72	46	50	51	52	53	54	56	55	61	62	60	56	66	61	
((1000	71	65	69	72	42	43	49	50	52	52	53	54	62	63	60	58	64	60	
((2000	66	61	66	66	38	37	45	45	45	47	46	48	56	55	55	51	57	50	
((4000	56	53	58	57			42	37	38	41	40	42	46	43	44	41	46	42	
((8000	45	45	48	48			41		43	43	43	43	45	44	42	45	44	43	
((OVERALL	80	80	80	81	71	71	69	69	74	76	74	76	76	77	75	74	80	79	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)									
4.5 OCTAVE BAND									
DISTANCE = 100 METERS									
NOISE SOURCE/SUBJECT:					METEOROLOGY:				
(OPERATION:					TEMP				
(FLIGHT IDLE(57.3X RPM)					= 15 C				
(IN THE A/F32T-9 ENGINE					(BAR PRESS = 0.760 M HG				
(SINGLE ENGINE GROUND					(REL HUMID = 70 %				
(MCCONNELL AFB, KANSAS					(
(RUNUP IN THE A/F32T-9					(
(FAR FIELD NOISE					(
(NSS MCCONNELL AFB					(
((
(FREQ					** ANGLE (DEGREES)				
((HZ)					**				
(0					30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180				
(31.5					71 76 71 79 73 40 50 71				
(63					72 74 71 74 69 65 72 73 72 69 69 72 74 73 73 76 73				
(125					74 74 75 74 64 63 65 68 68 71 67 65 70 70 69 71 74 75				
(250					68 69 71 69 65 65 55 57 62 64 66 62 58 61 62 59 60 64 67				
(500					63 65 63 65 61 51 53 57 62 53 52 56 53 51 52 48 56 64				
(1000					65 66 66 65 51 47 49 50 50 50 47 49 48 48 45 58 64				
(2000					62 63 63 61 49 40 45 44 43 43 43 43 43 42 41 49 52				
(4000					60 61 61 64 38 36 44 41 40 40 40 40 41 41 41 44 45				
(8000					59 61 62 68 43 37 44 41 40 40 40 40 41 41 41 44 45				
(OVERALL					79 80 79 82 75 73 74 75 76 72 71 74 76 75 75 78 78				

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5	TEST DP-079-200																
NOISE SOURCE/SUBJECT:		MUM 02																	
(TF33-P310P) ENGINE		METEOROLDOY:																	
(IN THE A/F321-9 N58 AT		TEMP = 15 C																	
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																	
(FAR FIELD NOISE		REL HUMID = 70 %																	
(OPERATION:		PAGE 5																	
(INTMD POWER (80.3X RPM)																			
(SINGLE ENGINE GROUND																			
(RUMUP IN THE A/F321-9																			
(N58 MCCONNELL AFB																			
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	84	84	80	77	74	73	75	75	75	76	75	75	75	73	74	73	75	75	75
63	75	75	73	76	68	66	69	72	69	68	68	70	67	66	67	67	75	80	80
125	74	75	74	76	60	63	63	66	66	60	61	61	60	59	60	60	72	68	68
250	68	70	70	72	53	56	57	58	60	55	54	56	55	54	53	53	65	60	60
500	61	65	65	67	48	52	55	56	54	51	53	53	52	53	52	52	64	58	58
1000	64	66	69	66	46	48	52	51	53	49	49	49	49	50	50	48	55	53	53
2000	67	67	66	63	47	49	56	59	58	53	49	44	46	45	45	45	49	51	51
4000	65	63	64	65	37	41	51	49	48	45	43	39	40	41	40	40	43	45	45
8000	63	62	65	69			48	46	43	44	41	39	40	43	43	41	41	42	42
OVERALL	85	85	83	82	75	74	76	77	77	77	76	76	74	75	74	74	79	81	81

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)												
4.5 OCTAVE BAND												
DISTANCE = 100 METERS												
NOISE SOURCE/SUBJECT:												
(OPERATION:)												
(MILITARY POWER(90.0X RPM))												
(SINGLE ENGINE GROUND)												
(RUNUP IN THE A/F32T-9)												
(MSS MCCONNELL AFB)												
METEOROLOGY:												
TEMP = 15 C												
BAR PRESS = 0.760 M HG												
REL HUMID = 70 X												
PAGE 5												
IDENTIFICATION:												
OMEGA 1.5												
TEST DP-019-200												
RUN 03												
05 MAR 67												
FREQ (HZ)												
ANGLE (DEGREES)												
**												
00												
100												
110												
120												
130												
140												
150												
160												
170												
180												
31.5												
93												
92												
90												
86												
83												
80												
79												
78												
77												
76												
75												
74												
73												
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11												
10												
9												
8												
7												
6												
5												
4												
3												
2												
1												
OVERALL												
94												
91												
87												
84												
85												
87												
89												
89												
87												
85												
83												
85												
86												
87												
88												
88												

** NO DATA COLLECTED.

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APPENDIX C
Far-Field Noise on the
TF30-P7 Engine

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TABLE 5.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
TF30-P7 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 22 February 1986

Time of Test: 1100

Engine Operation

Idle	66.4 %RPM
80 %	80.0 %RPM
Military Power	97.9 %RPM
Afterburner Power	95.1 %RPM

Meteorology

Temperature	11 Deg C
Bar Pressure	0.767 M Hg
Rel Humidity	60 %
Winds - Speed	5 - 8 Knots (Gusts to 15)
- Direction	10 Deg (True)

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-300																		
NOISE SOURCE/SUBJECT:		RUN 05																		
(TF30-P7 ENGINE		METEOROLOGY:																		
(IN THE A/F32T-9 MSS AT		TEMP = 11 C																		
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.767 M HG																		
(FAR FIELD NOISE		REL HUMID = 60 X																		
((OPERATION:		PAGE 2																		
((BACKGROUNND NOISE		**																		
((SINGLE ENGINE GROUND		ANGLE (DEGREES)																		
((RUNUP IN THE A/F32T-9		0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
((MSS MCCONNELL AFB																				
FREQ	(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	57	58	59	61	56	61	66	61	55	62	62	62	69	67	66	63	65	67	67	67
31.5	59	58	60	61	56	60	63	61	56	61	61	61	69	66	65	62	62	62	67	66
40	61	60	59	59	56	57	62	59	53	59	59	59	68	64	63	61	61	61	64	65
50	63	60	60	60	52	55	58	56	52	58	58	58	67	64	62	59	64	64	64	65
63	65	63	61	60	49	53	57	55	53	56	60	66	62	60	60	62	61	62	61	62
80	66	58	69	64	49	52	52	54	55	54	55	60	63	61	61	56	62	60	59	62
100	61	57	61	59	47	50	50	55	53	53	57	61	57	56	54	65	65	61	59	61
125	67	63	69	67	46	48	47	52	50	51	54	58	54	54	52	59	57	57	56	56
160	58	57	58	58	42	46	44	47	45	47	51	55	51	52	55	57	57	56	55	55
200	62	64	61	62	43	48	49	49	48	52	49	55	49	51	55	56	54	55	53	53
250	58	58	57	60	38	40	44	43	43	44	47	51	46	50	50	54	54	52	50	50
315	54	54	54	56	36	41	39	40	42	41	44	50	46	51	53	56	56	52	49	50
400	54	53	55	56	37	43	38	42	44	44	43	49	47	51	54	58	51	51	51	51
500	51	52	52	54	38	42	41	42	41	44	43	45	46	49	52	53	53	48	53	53
630	47	50	52	51	32	36	39	40	39	40	42	46	45	46	53	54	54	48	51	51
800	49	52	53	51	31	36	38	38	41	40	44	46	43	43	50	55	55	46	47	47
1000	49	53	54	55	28	35	35	37	38	39	43	46	42	42	51	52	52	46	45	45
1250	51	54	55	56	26	33	34	37	35	38	51	43	38	42	51	52	52	46	46	46
1600	48	53	52	54	23	32	31	34	34	34	44	42	34	41	48	50	44	46	46	46
2000	45	50	49	50	22	28	28	33	33	31	34	39	31	37	46	47	41	41	43	43
2500	45	48	48	50	23	26	26	30	30	29	34	38	28	36	44	46	46	40	41	41
3150	39	44	43	46	23	24	24	27	26	25	30	37	28	36	40	43	39	37	37	37
4000	37	39	39	41	22	23	21	24	25	23	26	34	34	31	37	39	36	35	35	35
5000	33	36	36	38	19	24	22	23	24	27	32	35	32	38	38	38	34	31	31	31
6300	28	31	31	33	23	21	22	23	20	21	33	27	36	34	34	34	31	29	29	29
8000	25	26	26	28	23	22	22	22	23	22	28	27	36	31	31	31	28	28	28	28
10000	22	22	22	25	23	22	22	22	19	22	17	22	27	27	27	27	28	28	28	28
OVERALL	73	71	74	73	62	66	69	67	63	67	69	76	73	71	70	73	73	73	73	73

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE		MEASURED SOUND PRESSURE LEVEL (DB)																	IDENTIFICATION:	
5.2		1/3 OCTAVE BAND																	OMEGA 1.5	
		DISTANCE = 100 METERS																	TEST DP-0T9-300	
NOISE SOURCE/SUBJECT:		OPERATION:																	RUN 01	
TF30-P7 ENGINE		IDLE POWER (66.42X RPM)																	TEMP = 11 C	
IN THE A/F32T-9 NSS AT		SINGLE ENGINE GROUND																	BAR PRESS = 0.767 M HG	
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																	REL HUMID = 60 X	
FAR FIELD NOISE		NSS MCCONNELL AFB																	PAGE 2	
FREQ		ANGLE (DEGREES)																	**	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
25	69	64	66	66	67	65	63	57	62	63	63	63	70	67	67	63	69	69	69	
31.5	71	70	69	67	67	65	63	55	63	63	61	62	68	68	67	61	70	69	69	
40	73	73	72	68	63	63	63	63	65	63	61	67	68	68	67	68	68	68	68	
50	71	67	68	66	62	59	59	55	60	61	60	59	67	65	64	66	67	66	66	
63	69	65	67	64	61	58	57	55	59	58	58	58	65	64	62	62	66	64	64	
80	67	64	66	63	56	55	56	55	61	60	61	59	62	63	60	60	63	61	61	
100	66	63	65	63	55	52	57	54	64	57	57	54	61	60	58	57	61	59	57	
125	67	65	67	66	53	51	59	52	68	55	54	54	59	59	57	57	58	57	57	
160	65	63	65	64	47	49	58	51	66	54	51	51	55	55	57	58	56	54	54	
200	62	62	65	64	50	50	57	49	66	52	48	50	52	52	55	57	53	51	51	
250	61	60	62	60	44	45	56	49	61	48	47	48	48	52	55	56	52	48	48	
315	61	59	60	60	42	43	53	50	59	49	51	48	47	50	53	56	52	47	47	
400	63	60	63	63	44	45	50	51	57	50	51	50	46	51	52	55	51	48	48	
500	58	58	58	57	40	41	45	48	51	50	46	47	43	47	47	51	47	44	44	
630	57	56	57	56	37	38	42	46	47	49	43	44	40	46	47	49	45	44	44	
800	54	53	54	55	36	36	40	45	45	46	41	42	39	44	46	48	43	45	45	
1000	54	53	54	55	33	34	39	43	45	44	40	41	38	43	45	45	41	40	40	
1250	53	52	52	55	32	33	37	42	43	42	39	39	38	42	44	43	39	39	39	
1600	52	52	52	55	30	31	37	42	43	40	38	38	36	39	41	41	37	38	38	
2000	57	54	52	53	31	33	44	48	48	42	42	40	37	39	41	41	37	40	40	
2500	47	47	48	50	33	31	35	38	39	36	34	34	31	34	37	36	33	33	33	
3150	45	44	46	48	33	30	35	36	36	35	31	31	30	30	33	34	30	30	30	
4000	43	43	43	45	33	29	35	36	35	32	29	28	31	28	28	31	28	28	28	
5000	41	41	41	41	32	32	33	36	32	28	32	32	32	30	32	34	32	34	34	
6300	38	38	36	36	32	32	30	32	28	30	31	30	31	29	31	31	29	31	32	
8000	33	33	32	33	30	30	30	28	28	28	28	27	27	27	27	27	27	28	28	
10000	30	30	30	30	30	30	30	24	24	24	24	24	24	24	24	24	24	24	24	
OVERALL	79	78	78	76	72	70	70	67	75	71	70	69	75	75	74	73	76	75	75	

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

FREQ (HZ)	MEASURED SOUND PRESSURE LEVEL (DB)																	IDENTIFICATION:	
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160		170	180
25	83	79	81	76	71	69	68	73	73	72	69	71	70	68	72	68	71	72	()
31.5	80	78	75	71	63	65	68	69	70	71	68	68	66	67	69	68	71	71	()
40	74	73	72	68	61	64	67	70	68	69	67	66	65	65	66	70	71	71	()
50	66	64	68	63	58	60	64	63	64	65	65	64	62	63	63	65	71	68	()
63	68	65	68	63	56	59	63	62	62	63	63	61	60	63	62	65	69	67	()
80	65	64	65	63	53	56	61	61	60	62	62	58	58	60	60	62	66	64	()
100	63	63	64	64	51	54	57	58	57	59	59	56	55	58	58	61	64	61	()
125	64	67	65	68	48	52	55	55	55	56	54	53	56	58	58	62	62	58	()
160	64	65	64	69	46	49	51	54	51	52	52	51	49	53	56	55	57	56	()
200	64	66	64	66	50	49	50	53	52	51	50	49	47	50	52	51	54	56	()
250	61	63	62	61	44	47	47	49	49	49	47	46	45	49	50	48	51	54	()
315	61	61	61	60	43	46	46	49	49	48	47	46	44	49	51	51	52	57	()
400	62	63	63	62	44	45	47	53	52	49	45	49	46	51	51	55	54	52	()
500	57	59	58	59	41	42	43	49	48	46	42	46	44	49	49	55	55	55	()
630	58	58	58	60	38	38	40	49	46	46	41	46	41	49	48	56	53	55	()
800	57	57	57	58	36	36	40	46	45	44	39	43	40	45	46	53	56	54	()
1000	56	56	57	58	34	34	37	43	44	42	38	41	38	45	45	54	53	50	()
1250	54	55	56	57	32	32	36	41	42	41	37	39	37	44	45	53	53	50	()
1600	54	54	54	55	31	30	36	40	42	40	36	36	34	40	42	50	52	48	()
2000	53	52	52	53	32	30	39	39	41	40	36	35	32	38	40	48	48	45	()
2500	63	60	57	54	36	38	50	53	52	50	45	47	36	41	42	46	46	44	()
3150	57	55	52	49	32	36	44	47	47	45	40	42	31	36	37	42	42	39	()
4000	49	48	46	44	30	33	39	40	38	37	32	32	29	30	30	35	36	33	()
5000	52	50	47	42	28	32	40	42	39	37	31	31							()
6300	48	45	43	38	28	30	36	37	34	33									()
8000	45	42	40	37	28	34	33	33	30	28									()
10000																			()
OVERALL	85	83	83	80	72	72	74	77	76	76	74	74	73	73	75	75	78	78	()

NO BACKGROUND CORRECTION APPLIED.

** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-OT9-300																		
NOISE SOURCE/SUBJECT:		OPERATION:																		
TF30-P7 ENGINE		MILITARY POWER(97.9 XRPH)																		
IN THE A/F32T-9 N55 AT		SINGLE ENGINE GROUND																		
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																		
FAR FIELD NOISE		N55 MCCONNELL AFB																		
		METEOROLOGY:																		
		TEMP = 11 C																		
		BAR PRESS = 0.767 M HG																		
		REL HUMID = 60 X																		
		PAGE 2																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
25	83	80	80	81	82	78	80	83	81	83	81	82	79	81	85	79			83	84
31.5	80	79	80	77	81	78	82	79	81	82	82	79	77	80	82	84			84	83
40	79	80	78	75	79	78	80	79	80	81	80	77	76	77	80	83			82	82
50	78	76	76	71	75	72	77	77	77	77	77	74	74	76	77	80			80	80
63	80	76	77	70	74	73	78	76	77	78	77	73	73	72	76	78			78	78
80	75	73	72	69	71	72	77	76	75	77	75	70	69	71	73	75			75	75
100	73	71	70	65	69	71	73	73	73	72	70	67	67	68	70	71			73	72
125	71	69	69	68	63	69	71	70	70	70	68	64	64	67	67	69			71	69
160	69	68	67	68	60	68	67	67	68	69	65	62	62	64	65	67			69	67
200	68	67	66	65	60	67	65	65	67	66	61	60	61	62	63	62			65	63
250	64	64	63	61	55	63	62	62	63	64	57	56	58	59	60	59			60	62
315	62	61	60	61	51	59	58	58	61	61	56	53	57	59	58	61			60	64
400	61	63	62	64	49	54	55	55	58	60	57	52	57	59	61	66			65	67
500	57	59	58	61	46	49	52	53	57	58	57	51	56	60	61	66			63	63
630	56	58	58	58	43	47	52	51	54	56	56	49	54	58	59	64			62	61
800	56	57	56	56	42	46	51	50	53	55	55	47	52	57	58	61			61	60
1000	55	55	55	57	41	45	49	48	51	54	55	47	51	56	57	59			59	58
1250	55	54	54	55	40	45	47	48	52	53	54	47	50	55	56	59			57	56
1600	54	53	54	54	39	43	47	47	50	53	52	45	49	55	55	58			57	55
2000	53	52	53	53	39	42	47	47	50	51	51	45	48	53	53	56			55	53
2500	52	50	50	51	38	40	46	46	49	50	50	46	45	51	51	54			53	51
3150	49	48	47	48	38	38	44	44	46	48	47	44	42	48	48	51			50	49
4000	49	48	46	44	44	43	43	43	43	45	44	38	39	45	45	47			47	46
5000	52	49	48	41	41	44	44	45	43	44	42	42	42	42	44	44			44	43
6300	56	43	42	41	39	39	39	39	39	38	38	39	39	39	38	40			40	39
8000	40																			
10000	39																			
OVERALL	88	86	86	84	87	84	87	87	87	88	87	85	84	86	89	89			89	89

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-019-300																		
NOISE SOURCE/SUBJECT:		OPERATION:																		
TF30-P7 ENGINE		AFTERBURNER POWER(95.1x)																		
IN THE A/F32T-9 MSS AT		SINGLE ENGINE GROUND																		
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																		
FAR FIELD NOISE		MSS MCCONNELL AFB																		
		METEOROLOGY:																		
		TEMP = 11 C																		
		BAR PRESS = 0.767 M HG																		
		REL HUMID = 60 x																		
		PAGE 2																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15					80	76	74	81	84	83	83	87	85	80	82	82				
4					87	88	88	88	88	88	89	89	88	90	89	89				
5					82	82	85	82	83	84	85	85	84	87	82	84				
6.3					81	83	81	81	84	84	84	87	85	87	88	88				
8					86	84	86	89	88	90	87	89	89	90	89	92				
10					87	88	89	90	91	91	91	94	91	92	89	94				
12.5					89	88	90	94	94	95	93	92	93	95	98	98				
16					92	92	95	95	96	96	97	96	95	99	100	101				
20					90	89	93	94	93	97	95	95	94	96	97	94				
25				96	89	89	94	92	91	96	93	92	89	95	98	94				
31.5				95	87	85	86	91	88	89	93	91	89	86	92	94				
40				93	85	83	85	88	88	88	90	86	85	87	93	97				
50				93	85	81	84	87	87	86	87	88	86	86	89	91				
63				89	79	78	80	84	84	83	86	85	81	84	88	91				
80				82	74	74	78	81	83	82	84	82	78	78	80	84				
100				71	70	77	79	79	79	80	79	75	76	79	82	81				
125				81	69	66	75	77	77	79	77	73	73	76	79	80				
160				80	66	64	74	73	74	75	77	76	71	71	74	76				
200				78	66	62	72	71	72	74	76	75	70	71	73	75				
250				76	64	61	70	68	69	72	73	72	69	70	75	76				
315				72	63	57	67	65	66	70	71	69	67	69	75	77				
400				69	69	71	59	52	64	68	68	69	64	68	75	78				
500				66	67	59	48	48	61	66	68	71	65	69	76	77				
630				64	65	55	46	46	61	63	62	65	69	76	77	80				
800				64	65	64	53	45	60	62	62	60	65	72	75	76				
1000				64	63	53	44	38	60	61	63	68	70	63	70	72				
1250				62	61	63	51	44	58	58	61	63	66	69	71	74				
1600				61	61	63	50	43	56	57	60	61	65	66	69	71				
2000				60	60	62	49	42	54	56	59	60	63	64	67	69				
2500				59	59	61	48	39	52	54	57	59	62	62	65	67				
3150				58	57	60			50	52	54	56	59	59	61	63				
4000				59	58	61			47	51	52	52	55	55	56					
5000				55	54	57			43			48	48	50	52					
6000				51	50	53														
8000																				
10000																				
OVERALL	98	96	101	93	98	99	101	102	102	104	103	102	101	104	106	106				

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-300																	
NOISE SOURCE/SUBJECT:		MUN 05																	
TF30-P7 ENGINE		TEMP = 15 C																	
IN THE A/F32T-9 NSS AT		BAR PRESS = 0.760 M HG																	
MCCONNELL AFB, KANSAS		REL HUMID = 70 X																	
FAR FIELD NOISE		PAGE 3																	
NSS MCCONNELL AFB																			
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	57	58	59	61	56	61	66	61	55	62	62	69	67	66	63	65	67	67	67
31.5	59	58	60	61	56	60	63	61	56	60	61	69	66	65	62	62	67	66	66
40	61	59	59	59	56	57	62	58	52	59	59	68	64	63	60	61	63	65	65
50	63	60	60	60	52	55	58	56	52	57	58	67	64	62	59	64	64	65	65
63	65	63	61	60	49	53	56	55	52	56	59	65	62	60	59	62	61	62	62
80	66	58	69	64	49	52	52	53	54	55	60	63	61	61	56	62	60	60	59
100	61	57	61	59	46	50	50	55	53	53	56	61	56	56	53	65	61	59	59
125	67	63	69	67	46	48	47	52	50	51	54	58	54	54	52	59	57	56	56
160	58	57	58	58	42	46	44	47	45	47	51	55	51	52	55	57	56	55	55
200	62	64	61	62	43	47	49	49	48	52	49	55	49	50	54	56	55	53	53
250	58	58	57	60	38	40	44	43	43	44	47	51	46	50	50	54	52	50	50
315	53	51	54	56	35	41	39	40	41	41	44	50	46	51	53	56	52	49	49
400	54	53	54	56	37	43	38	41	44	44	43	49	46	50	54	58	51	51	51
500	51	52	52	54	37	42	40	42	41	44	43	45	45	49	52	52	48	53	53
630	47	50	51	51	32	36	39	40	39	40	42	46	45	46	53	54	47	51	51
800	49	52	53	53	31	36	38	38	41	40	44	46	43	43	50	55	46	47	47
1000	49	53	54	55	28	35	35	37	38	39	43	46	42	42	51	52	46	45	45
1250	51	54	55	56	26	33	34	36	35	38	51	43	38	42	51	52	46	45	45
1600	48	53	52	54	23	32	31	34	33	34	44	42	34	41	48	50	44	46	46
2000	45	50	49	50	22	28	28	33	33	31	34	39	31	37	46	47	41	43	43
2500	45	49	48	50	23	26	26	30	30	29	34	38	29	36	44	46	41	42	42
3150	40	44	43	46	23	24	24	27	26	25	30	37	37	41	43	39	37	37	37
4000	38	40	40	42	23	24	22	25	26	24	27	35	32	38	40	37	36	36	36
5000	34	37	37	39	20	25	23	24	25	28	33	36	33	39	39	35	32	32	32
6300	30	33	32	35	25	22	22	24	25	22	23	34	29	38	35	32	31	31	31
8000	27	28	29	31	26	24	24	25	26	24	21	30	30	39	33	30	31	31	31
10000	25	25	25	28	26	25	25	25	22	25	20								
OVERALL	73	71	74	73	62	66	69	67	63	67	69	75	73	71	70	73	73	73	73

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-300																	
NOISE SOURCE/SUBJECT:		OPERATION:																	
TF30-P7 ENGINE		IDLE POWER (66.42x RPM)																	
IN THE A/F32T-9 MSS AT		SINGLE ENGINE GROUND																	
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																	
FAR FIELD NOISE		MSS MCCONNELL AFB																	
		METEOROLOGY:																	
		TEMP = 15 C																	
		BAR PRESS = 0.760 M HG																	
		REL HUMID = 70 X																	
		PAGE 3																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	69	64	65	66	67	65	63	57	62	63	63	63	70	67	67	63	69	69	69
31.5	71	70	69	67	67	65	63	55	63	63	61	62	68	68	67	61	67	69	69
40	73	73	72	68	63	63	62	62	65	64	63	61	67	68	68	67	68	68	68
50	71	67	68	66	62	59	59	55	60	61	60	59	67	65	64	66	67	66	66
63	69	65	67	64	60	57	56	55	59	58	58	57	65	64	62	62	66	64	64
80	67	64	66	63	56	55	56	55	61	60	61	59	62	63	60	60	63	61	61
100	66	63	65	63	55	52	57	54	63	57	54	54	61	60	58	57	61	59	59
125	66	65	66	66	53	51	59	52	68	55	54	54	59	59	57	57	58	57	57
160	65	63	65	64	47	49	58	51	66	54	51	51	55	55	57	58	56	54	54
200	62	62	65	63	49	50	57	49	66	51	48	50	52	52	55	57	52	51	51
250	61	60	62	60	44	45	56	49	61	48	47	48	48	48	53	56	52	48	48
315	61	59	60	60	42	43	53	50	59	49	51	48	47	50	53	56	52	47	47
400	62	60	62	63	43	45	50	51	57	49	51	49	46	51	52	54	50	47	47
500	58	58	58	57	40	41	45	48	51	49	46	46	43	47	47	51	47	44	44
630	58	58	57	56	37	38	41	46	47	49	42	44	40	46	47	49	45	43	43
800	57	56	55	55	36	36	40	45	45	46	41	42	39	44	46	48	43	45	45
1000	54	53	54	55	33	34	39	43	45	44	40	41	38	43	45	45	41	40	40
1250	53	52	52	55	32	33	37	42	43	42	39	39	38	41	44	43	39	38	38
1600	52	52	52	55	30	31	37	42	43	40	38	38	36	39	41	41	37	38	38
2000	57	54	52	53	31	33	44	48	48	42	42	40	37	39	41	41	37	40	40
2500	48	47	48	50	33	32	35	38	39	37	35	34	31	34	37	37	33	34	34
3150	46	45	46	48	33	30	35	36	37	35	31	31	30	30	33	34	31	31	31
4000	44	44	44	45	34	30	36	37	36	33	30	29	29	29	29	32	29	29	29
5000	42	42	42	42	33	30	34	37	33	29	33	33	33	31	33	33	35	35	35
6300	39	40	38	37	34	32	32	34	33	29	32	32	32	30	32	32	33	33	33
8000	35	36	34	35	33	32	32	31	29	27	31	31	31	30	30	32	31	31	31
10000	33	33	33	33	33	33	33	31	27	27	31	31	31	30	30	32	31	31	31
OVERALL	79	78	78	76	72	70	70	67	74	71	70	69	75	75	74	73	76	75	75

** NO DATA COLLECTED.

TABLE		SOUND PRESSURE LEVEL (DB)																		IDENTIFICATION:	
5.3		1/3 OCTAVE BAND																		OMEGA 1.5	
		DISTANCE = 100 METERS																		TEST DP-019-300	
NOISE SOURCE/SUBJECT:		OPERATION:																		RUN 02	
TF30-P7 ENGINE		INTMD POWER (80.0X RPM)																		TEMP = 15 C	
IN THE A/F32T-9 N55 AT		SINGLE ENGINE GROUND																		BAR PRESS = 0.760 M HG	
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																		REL HUMID = 70 X	
FAR FIELD NOISE		N55 MCCONNELL AFB																		PAGE 3	
FREQ	(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	**
25	82	79	81	76	71	69	68	73	73	72	69	71	70	68	72	68	71	72	71	72	
31.5	80	74	73	68	61	64	67	70	68	68	66	65	64	65	66	69	68	71	71	70	
50	66	64	68	63	58	60	64	63	64	65	65	64	62	63	63	65	65	71	68	68	
63	68	65	67	63	56	58	62	61	62	62	63	61	60	62	62	65	62	69	67	67	
80	65	64	64	63	53	56	61	61	60	62	62	58	58	60	60	62	66	64	64	64	
100	63	62	64	64	50	54	57	57	57	58	58	56	55	57	57	60	60	63	61	61	
125	63	66	65	68	48	52	55	55	55	56	56	54	53	56	58	58	62	58	58	58	
160	64	65	63	69	46	49	51	54	51	52	52	51	49	53	56	55	57	56	56	56	
200	64	65	64	65	50	49	50	53	52	51	49	49	47	50	52	51	54	56	54	56	
250	61	63	62	61	44	47	47	49	49	49	47	46	45	49	50	48	51	54	54	54	
315	61	61	60	60	43	46	46	49	49	48	47	46	44	49	51	51	52	53	52	53	
400	62	63	62	62	43	45	47	53	51	48	44	48	46	51	51	55	54	52	54	52	
500	57	58	58	59	40	41	42	49	48	46	41	46	44	49	49	55	55	55	55	55	
630	58	58	58	60	38	38	40	48	46	46	41	46	41	48	48	55	53	54	53	54	
800	57	57	56	58	36	36	40	46	45	44	39	43	40	45	46	53	56	54	56	54	
1000	56	56	57	58	34	34	37	43	44	42	38	41	38	45	45	54	53	50	53	50	
1250	54	55	56	57	32	32	36	40	42	41	37	39	36	44	45	53	50	53	50	50	
1600	54	54	54	55	31	30	36	40	42	40	36	36	34	40	42	50	52	48	52	48	
2000	53	52	52	53	32	30	39	39	41	40	36	35	32	38	40	48	48	45	48	45	
2500	63	60	57	54	36	38	50	53	53	50	45	47	36	41	42	47	47	44	47	44	
3150	58	55	52	50	33	36	45	48	47	45	40	42	32	37	37	42	42	40	42	40	
4000	50	49	47	45	31	34	40	41	39	38	33	33	32	30	31	36	37	34	37	34	
5000	53	51	48	43	29	33	41	43	40	38	32	32	30	30	31	36	30	32	30	32	
6300	49	47	45	40	30	31	37	39	35	34	32	32	30	30	31	36	29	30	29	29	
8000	47	45	42	39	31	35	35	35	32	30	30	30	30	30	30	30	30	30	30	30	
10000																					
OVERALL	85	83	83	80	72	72	74	77	76	76	74	74	74	73	73	75	75	78	78	78	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
5.3		TEST DP-019-300																	
DISTANCE = 100 METERS		RUN 03																	
NOISE SOURCE/SUBJECT:		METEOROLOGY:																	
(OPERATION:		TEMP = 15 C																	
(MILITARY POWER(97.9 XRPM)		BAR PRESS = 0.760 M HG																	
(SINGLE ENGINE GROUND		REL HUMID = 70 X																	
(IN THE A/F32T-9 N55 AT		PAGE 3																	
(MCCONNELL AFB, KANSAS																			
(RUNUP IN THE A/F32T-9																			
(FAR FIELD NOISE																			
(MSS MCCONNELL AFB																			
FREQ		ANGLE (DEGREES)																	
((HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
((25	83	80	80	81	82	78	80	83	81	83	81	82	79	81	85	79	83	84	
((31.5	80	79	80	77	81	78	82	79	81	82	82	79	77	80	82	83	84	83	
((40	79	80	77	74	79	78	80	79	80	80	80	77	76	77	80	83	82	82	
((50	78	76	76	71	75	72	77	77	77	77	77	74	74	76	77	80	80	80	
((63	80	76	77	70	74	73	78	76	77	77	77	73	73	72	76	78	78	78	
((80	75	73	72	69	70	71	76	76	75	77	74	70	69	70	73	74	75	75	
((100	73	71	70	65	69	71	72	72	73	72	70	67	67	68	69	71	73	71	
((125	70	69	69	68	63	69	71	70	70	70	68	64	64	67	67	69	71	69	
((160	68	67	67	67	60	67	67	67	68	69	65	62	62	64	65	67	69	66	
((200	67	67	66	65	60	67	65	65	66	66	61	59	61	62	63	62	64	63	
((250	64	64	63	61	55	62	62	61	62	64	57	55	58	59	59	59	60	62	
((315	62	61	60	61	51	59	58	58	60	61	55	53	56	58	58	61	60	64	
((400	61	63	61	64	49	54	55	55	58	60	57	52	57	59	61	66	65	67	
((500	57	58	58	61	45	49	52	53	57	58	56	51	56	59	61	66	63	63	
((630	56	58	58	58	43	47	52	51	54	56	56	49	54	58	59	64	62	61	
((800	56	57	56	56	42	46	51	50	53	55	55	47	52	57	58	61	61	60	
((1000	55	55	55	57	41	45	49	48	51	54	55	47	51	56	57	59	59	58	
((1250	55	54	54	55	40	45	47	48	52	53	54	47	50	55	56	59	57	56	
((1600	54	53	54	54	38	43	47	47	50	52	52	44	49	54	54	57	57	54	
((2000	53	52	53	53	39	42	47	47	50	51	51	45	48	53	53	56	55	53	
((2500	52	50	50	51	38	40	46	46	49	50	50	46	45	51	51	54	53	51	
((3150	49	48	48	48	38	38	44	45	47	48	48	44	43	49	48	51	50	49	
((4000	49	48	47	45			44	44	44	44	46	45	40	46	46	48	48	46	
((5000	53	50	49	42			45	46	44	45	43	39	40	43	43	45	45	44	
((6300	57	44	44				40	40	40	40	40	41	39	41	39	41	42	40	
((8000	43																		
((10000	42																		
((OVERALL	88	86	86	84	86	84	87	87	87	88	87	85	84	86	89	89	89	89	

** MD DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
5.3		TEST DP-OT9-300																		
DISTANCE = 100 METERS		RUN 04																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(OPERATION:		TEMP = 15 C																		
(AFTERBURNER POWER(95.1X)		BAR PRESS = 0.760 M HG																		
(SINGLE ENGINE GROUND		REL HUMID = 70 X																		
(IN THE A/F32T-9 N55 AT		PAGE 3																		
(MCCONNELL AFB, KANSAS																				
(RUMUP IN THE A/F32T-9																				
(FAR FIELD NOISE																				
(N55 MCCONNELL AFB																				
FREQ		ANGLE (DEGREES)																		
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15					80	76	74	81	84	83	83	87	85	80	82	82			77	88
4					87	88	88	88	88	88	88	89	88	90	89	89			87	87
5					82	82	85	82	83	84	85	85	84	87	82	84			82	89
6.3					81	83	81	81	84	84	83	87	85	87	88	89			86	88
8					85	84	85	89	87	90	87	89	89	90	89	92			88	90
10					86	88	89	90	90	91	91	94	91	92	89	93			94	91
12.5					89	88	90	94	94	95	93	92	93	95	98	98			98	96
16					91	92	95	95	96	96	96	96	95	99	100	100			97	100
20					90	89	93	94	93	97	95	95	94	96	97	94			98	96
25	94	89	96	89	88	89	94	92	91	96	93	92	89	95	98	94			95	98
31.5	89	88	94	87	85	86	91	88	89	93	91	89	86	92	94	97			96	96
40	89	89	93	85	83	85	87	87	88	88	90	86	84	87	92	97			94	96
50	89	89	93	85	81	84	87	87	86	86	88	86	86	89	91	94			95	95
63	85	85	89	79	78	80	84	84	83	86	85	81	84	84	88	88			91	92
80	83	82	84	74	74	77	81	82	82	84	82	77	77	80	84	87			86	87
100	80	81	82	71	70	77	79	79	79	80	79	75	76	79	82	81			82	81
125	78	80	81	69	66	75	77	77	77	79	77	73	73	76	79	80			79	78
160	78	78	79	66	63	73	73	74	75	77	76	71	71	74	76	77			76	76
200	77	77	78	66	62	72	70	72	74	76	75	70	71	73	75	75			74	75
250	76	76	77	64	61	70	68	69	72	73	72	69	70	75	75	76			72	73
315	73	72	76	63	57	67	65	66	69	71	69	67	69	75	74	77			72	74
400	69	69	70	59	52	64	63	64	67	68	69	64	68	75	75	78			76	76
500	66	67	69	59	48	61	63	64	66	68	71	65	69	75	77	80			79	79
630	64	65	65	55	46	61	63	62	64	69	72	62	68	75	77	80			77	75
800	64	65	64	53	45	60	62	62	64	69	72	60	65	72	75	76			73	72
1000	64	63	63	53	44	58	60	61	63	67	70	59	63	70	72	74			73	72
1250	62	61	63	51	44	58	58	61	62	66	68	59	63	70	71	74			72	71
1600	61	61	63	50	42	56	57	60	61	65	66	58	62	67	69	71			70	69
2000	60	60	62	49	42	54	56	59	60	63	64	56	60	65	67	69			68	68
2500	60	59	61	48	40	53	55	57	59	62	62	55	57	63	65	67			66	65
3150	58	57	60			51	53	55	56	59	59	52	53	60	62	64			63	62
4000	60	59	62			48	52	53	53	56	56	49	49	56	57					
5000	56	55	58			44				53	52			51	53					
6300	52	52	54																	
8000	52	52	52																	
10000	52	52	52																	
OVERALL	98	96	101	93	98	98	101	102	102	104	103	102	101	104	106	106			106	106

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																		
IDENTIFICATION:																		
5.4 DISTANCE = 100 METERS																		
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																		
TF30-P7 ENGINE (BACKGROUND NOISE) TEMP = 15 C																		
IN THE A/F32T-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																		
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X																		
FAR FIELD NOISE (NSS MCCONNELL AFB)																		
PAGE 4																		
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	73	71	74	72	60	63	67	65	61	65	67	73	70	69	68	72	71	71
OASLA	60	62	63	64	42	47	47	48	48	49	55	55	52	54	60	62	56	57
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	51	54	54	56	32	37	37	39	39	40	45	47	46	52	54	48	49	
ANNoyANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PMLT IN PHDB)																		
TONE CORRECTION (C IN DB)																		
PMLT	75	76	77	78	53	59	59	61	61	64	69	68	62	68	71	75	69	70
C	1	1	2	1	1	1	1	1	1	2	3	0	0	1	0	1	0	0

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																				
IDENTIFICATION:																				
5.4 DISTANCE = 100 METERS																				
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																				
TF30-P7 ENGINE (IDLE POWER (66.42% RPM)) TEMP = 15 C																				
IN THE A/F32T-9 MSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																				
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X																				
FAR FIELD NOISE (MSS MCCONNELL AFB)																				
PAGE 4																				
HAZARD/PROTECTION																				
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																				
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																				
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																				
NO PROTECTION																				
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
	ANGLE (DEGREES)																			
	#																			
OASLC	78	76	77	75	69	68	68	65	74	69	68	67	73	73	72	71			74	73
OASLA	66	65	65	66	49	48	55	55	62	55	53	53	52	55	56	58			55	53
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440			1440	1440
COMMUNICATION																				
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																				
	58	57	57	58	40	39	45	48	49	46	44	44			46	47			44	
ANNNOYANCE																				
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																				
TONE CORRECTION (C IN DB)																				
PNLT	82	79	79	79	63	61	71	71	77	68	67	67	66	66	69	70			69	66
C	2	1	1	1	1	1	3	3	2	1	2	1	1	0	0	0			1	2

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)											IDENTIFICATION:							
5.4 DISTANCE = 100 METERS											OMEGA 1.5							
NOISE SOURCE/SUBJECT:											TEST DP-019-300							
TF30-P7 ENGINE											RUN 02							
IN THE A/F32T-9 NSS AT											METEOROLOGY:							
MCCONNELL AFB, KANSAS											TEMP = 15 C							
FAR FIELD NOISE											BAR PRESS = 0.760 M HG							
											REL HUMID = 70 %							
											PAGE 4							
											**							
HAZARD/PROTECTION											ANGLE (DEGREES)							
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	82	80	80	78	69	69	72	74	73	74	72	72	70	71	72	73	76	75
OASLA	69	68	67	67	48	50	55	59	58	56	53	54	50	55	56	62	62	61
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	62	61	60	59	40	41	47	52	51	49	44	47	46	47	54	54	52	52
ANNOYANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PNLT	87	85	83	80	62	65	74	77	76	74	70	72	63	68	69	72	74	72
C	2	2	2	0	1	2	3	3	3	2	2	3	1	1	1	0	0	0

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																			
IDENTIFICATION:																			
5.4	DISTANCE = 100 METERS																		
	NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																		
	TF30-P7 ENGINE (MILITARY POWER(97.9 XRPH)) TEMP = 15 C																		
	IN THE A/F321-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																		
	MCCONNELL AFB, KANSAS (RUNUP IN THE A/F321-9) REL HUMID = 70 X																		
	FAR FIELD NOISE (NSS MCCONNELL AFB)																		
	PAGE 4																		
	**																		
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
	HAZARD/PROTECTION																		
	C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
	A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
	LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
	NO PROTECTION																		
	OASLC	86	84	84	81	84	82	85	85	86	85	83	81	83	86	87	87	87	87
	OASLA	68	67	67	58	63	64	64	65	67	65	60	62	66	67	70	69	69	69
	T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
	COMMUNICATION																		
	PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
	PSIL	59	59	59	59	59	53	53	56	57	57	51	53	58	59	62	61	61	61
	ANNOYANCE																		
	PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
	TONE CORRECTION (C IN DB)																		
	PNLT	85	82	82	80	72	76	81	81	80	81	79	74	75	79	80	83	83	84
	C	2	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	** NO DATA COLLECTED.																		

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 1, APRIL 82)																		
IDENTIFICATION:																		
5.4 DISTANCE = 100 METERS																		
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																		
TF30-P7 ENGINE (AFTERBURNER POWER(95.1x)) TEMP = 15 C																		
IN THE A/F32T-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																		
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X																		
FAR FIELD NOISE (NSS MCCONNELL AFB)) PAGE 4																		
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	95	94	98	90	91	92	96	95	95	98	97	95	94	97	100	101	101	102
OASLA	76	76	78	66	62	71	72	73	74	77	79	71	75	81	82	85	83	82
T	1440	1440	1358	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	807	679	404
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	67	67	68	61	62	64	65	69	70	65	72	74						
ANNoyANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PNLT	92	92	95	82	77	86	87	88	89	92	92	86	88	93	95	97	98	98
C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
5.5 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-300																		
NOISE SOURCE/SUBJECT:		RUN 05																		
(TF30-P7 ENGINE		METEOROLOGY:																		
(IN THE A/F32T-9 NSS AT		TEMP = 15 C																		
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
(FAR FIELD NOISE		REL HUMID = 70 X																		
		PAGE 5																		
FREQ	ANGLE (DEGREES)	**																		
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
31.5	64 63 64 65 61 65 68 65 59 63 66 73 71 69 67 68	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	
63	70 65 70 67 55 58 61 60 58 61 64 70 67 66 63 68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
125	68 65 70 68 50 53 53 57 55 56 59 63 59 59 58 67	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
250	64 63 63 65 45 49 50 50 50 53 52 57 52 55 58 60	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
500	56 57 58 59 41 46 44 46 47 48 47 52 50 53 58 60	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
1000	54 58 59 60 33 40 41 42 43 44 52 50 46 47 55 58	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
2000	51 56 55 57 28 35 34 37 37 37 45 45 37 44 51 53	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
4000	42 46 45 48 27 29 28 30 31 31 36 41 39 44 46 46	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
8000	32 34 34 37 30 29 29 29 29 29 28 26 36 32 41 37	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
OVERALL	73 71 74 73 62 66 69 67 63 67 69 75 73 71 70 73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-019-300																		
NOISE SOURCE/SUBJECT:		OPERATION:									METEOROLOGY:									
TF30-P7 ENGINE		IDLE POWER (66.42X RPM)									TEMP = 15 C									
IN THE A/F32T-9 MSS AT		SINGLE ENGINE GROUND									BAR PRESS = 0.760 M HG									
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9									REL HUMID = 70 X									
FAR FIELD NOISE		MSS MCCONNELL AFB									PAGE 5									
FREQ		ANGLE (DEGREES)																		
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	76	75	75	75	72	71	69	67	64	68	68	67	67	73	73	72	69			
63	74	71	72	69	65	62	62	62	60	65	64	65	63	70	69	67	68			74
125	71	69	70	69	57	56	63	63	57	71	60	59	58	64	63	62	62			70
250	66	65	68	66	51	52	60	60	54	68	55	54	54	54	56	59	61			63
500	65	63	64	64	46	47	52	52	54	58	54	53	52	48	53	54	57			57
1000	60	59	58	60	39	39	43	48	49	49	49	45	46	43	47	50	50			53
2000	58	57	56	58	37	37	45	49	50	50	45	44	44	40	43	45	45			46
4000	49	49	49	51	38	33	40	41	40	40	38	34	36	40	43	36	38			41
8000	41	42	40	40	36				36											37
OVERALL	79	78	78	76	72	70	70	70	67	74	71	70	69	75	75	74	73			76

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5 TEST DP-0T9-300 RUN 02																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
((30-P7 ENGINE		TEMP = 15 C																		
((IN THE A/F32T-9 NSS AT		BAR PRESS = 0.760 M HG																		
((MCCONNELL AFB, KANSAS		REL HUMID = 70 X																		
((FAR FIELD NOISE		PAGE 5																		
		**																		
FREQ (HZ)	ANGLE (DEGREES)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	85	82	78	72	71	73	76	75	75	72	73	72	71	74	73	76	76			
63	71	69	72	68	61	63	67	67	68	68	66	65	67	67	69	73	71			
125	68	70	69	72	53	57	60	60	61	61	59	58	61	62	63	66	64			
250	67	68	67	68	52	52	53	56	55	53	52	50	54	56	55	57	59			
500	64	65	65	65	46	47	49	55	54	52	47	52	49	54	54	59	59			
1000	60	61	61	62	39	39	42	48	48	47	43	46	43	49	50	58	56			
2000	64	62	60	59	38	39	30	33	33	31	46	48	39	45	46	53	51			
4000	60	57	55	51	36	39	47	50	48	47	42	43	38	38	43	43	41			
8000	51	49	47	43	33	40	40	40	37	36							33			
OVERALL	85	83	83	80	72	72	74	77	76	76	74	74	73	73	75	75	78	78		

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:	
OCTAVE BAND	DISTANCE = 100 METERS		
5.5			OMEGA 1.5
			TEST DP-019-300
			RUN 03
NOISE SOURCE/SUBJECT:		METEOROLOGY:	
(OPERATION:		TEMP = 15 C	
(MILITARY POWER(97.9 XRPM)		BAR PRESS = 0.760 M HG	
(SINGLE ENGINE GROUND		REL HUMID = 70 X	
(RUNUP IN THE A/F321-9			
(MSS MCCONNELL AFB			
FREQ		ANGLE (DEGREES)	
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180		**
(31.5	86 84 84 83 86 83 86 85 85 87 86 84 82 84 88 87		88 88
(63	80 80 75 78 77 82 81 81 82 81 78 77 78 80 83		83 83
(125	76 74 73 72 70 74 75 75 75 75 73 70 69 71 72 74		76 74
(250	70 70 68 68 61 69 67 67 69 69 63 61 64 65 65 66		67 68
(500	63 65 64 66 51 55 58 58 61 63 61 56 60 64 65 70		68 69
(1000	60 60 60 61 46 50 54 53 57 59 59 52 56 61 61 64		64 63
(2000	58 57 57 58 43 47 51 51 55 56 56 50 52 58 58 61		60 58
(4000	56 54 53 51		53 52
(8000	57		
(OVERALL	88 86 86 84 86 84 87 87 87 88 87 85 84 86 89 89		89 89

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
OCTAVE BAND		OMEGA 1.5																	
5.5		TEST DP-OT9-300																	
DISTANCE = 100 METERS		RUN 04																	
NOISE SOURCE/SUBJECT:		METEOROLOGY:																	
(OPERATION:		TEMP = 15 C																	
(AFTERBURNER POWER(95.1k)		BAR PRESS = 0.760 M HG																	
(SINGLE ENGINE GROUND		REL HUMID = 70 %																	
(IN THE A/F32T-9 MISS AT		PAGE 5																	
(MCCONNELL AFB, KANSAS																			
(RUNUP IN THE A/F32T-9																			
(FAR FIELD NOISE																			
(MISS MCCONNELL AFB																			
FREQ		ANGLE (DEGREES)																	
((Mhz)		**																	
(0		350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																	
(4		89 89 89 89 90 90 90 90 90 91 92 91 92 90 91																	
(8		90 90 91 93 93 94 93 94 93 96 94 95 93 96																	
(16		95 95 98 99 99 101 100 99 99 102 103 103																	
(31.5		96 94 99 92 90 92 96 94 94 98 96 94 92 97 100 101																	
(63		91 91 95 86 84 86 89 90 89 90 90 88 89 90 93 96																	
(125		84 85 86 74 72 80 82 82 82 83 82 78 79 81 85 84																	
(250		80 80 82 69 65 75 73 74 77 79 77 73 75 79 80 81																	
(500		71 72 73 63 54 67 68 68 71 73 76 69 73 80 81 84																	
(1000		68 68 68 57 49 64 65 66 68 73 75 64 69 75 78 79																	
(2000		65 65 67 54 46 59 61 64 65 68 69 61 65 70 72 74																	
(4000		63 62 65																	
(8000		58																	
(OVERALL		98 96 101 93 98 98 101 102 102 104 103 102 101 104 106 106																	

** NO DATA COLLECTED.

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APPENDIX D
Far-Field Noise on the
F100 Engine

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TABLE 6.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
F100 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 26 February 1986

Time of Test: 1330 Hrs

Engine Operation

Idle	66.7 %RPM
80 %	80.0 %RPM
Military Power	90.7 %RPM
Afterburner Power	90.6 %RPM

Meteorology

Temperature	24 Deg C
Bar Pressure	0.721 M Hg
Rel Humidity	30 %
Winds - Speed	5 - 9 Knots (Gusts to 18)
- Direction	350 Deg (True)

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																
1/3 OCTAVE BAND		OMEGA 1.5																
DISTANCE = 100 METERS		TEST DP-OT9-400																
		RUN 05																
NOISE SOURCE/SUBJECT:		METEOROLOGY:																
(OPERATION:		TEMP = 24 C																
(BACKGROUND NOISE		BAR PRESS = 0.721 M HG																
(SINGLE ENGINE GROUND		REL HUMID = 30 X																
(A/F32T-9 NSS AT		11 MAR 87																
(MCCONNELL AFB, KANSAS		PAGE 2																
(RUNUP IN THE A/F32T-9																		
(FAR FIELD NOISE																		
(NSS MCCONNELL AFB																		
		**																
FREQ	ANGLE (DEGREES)																	
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																	
25	65 63 69 66 57 63 67 65 65 71 66 69 64 69 63 63 63 72 73																	
31.5	67 65 71 68 59 62 65 65 65 69 65 69 63 66 63 63 63 71 71																	
40	68 67 74 70 56 58 65 66 66 68 65 68 63 63 64 64 64 69 70																	
50	78 71 72 67 61 63 64 65 66 66 62 66 60 62 61 61 61 65 67																	
63	66 64 71 67 59 58 62 64 65 65 62 63 60 62 66 66 66 70 72																	
80	64 63 69 66 69 62 59 65 66 68 58 61 58 59 58 58 62 64																	
100	67 66 70 67 64 64 60 63 66 64 58 60 58 56 54 54 61 58																	
125	72 71 74 73 59 60 59 64 66 64 56 55 55 52 52 52 52 57																	
160	72 71 72 74 56 56 57 61 67 62 53 53 52 51 49 49 60 55																	
200	69 70 70 71 56 57 57 60 65 62 53 53 50 50 50 50 59 55																	
250	64 66 66 65 54 55 58 59 64 62 53 53 50 48 48 48 60 54																	
315	61 59 62 61 53 52 56 58 65 62 52 53 52 47 47 47 57 50																	
400	63 59 62 63 55 52 56 59 64 62 54 54 54 47 50 50 55 50																	
500	59 57 60 59 51 52 57 57 64 62 53 53 52 45 45 45 56 46																	
630	62 60 60 61 51 54 59 60 65 60 54 52 44 44 44 44 54 45																	
800	61 61 61 53 57 59 60 61 59 52 51 50 45 44 44 44 52 45																	
1000	59 61 63 60 50 55 57 58 59 57 52 51 49 42 42 42 53 44																	
1250	59 59 66 60 48 58 58 60 54 57 50 50 48 41 41 41 53 43																	
1600	59 59 65 60 47 54 56 59 49 54 48 48 46 38 40 40 51 41																	
2000	57 58 64 60 45 52 54 56 47 49 45 44 41 37 36 36 47 40																	
2500	56 57 63 58 42 54 54 55 47 43 41 41 38 35 35 44 42																	
3150	54 56 59 58 41 48 52 53 49 41 38 39 33 34 34 34 42 41																	
4000	52 53 56 39 44 48 48 37 36 35 36 31 33 32 32 32 37 37																	
5000	50 52 55 56 31 38 42 41 33 35 34 35 31 32 31 31 36 36																	
6300	47 49 52 54 29 32 35 32 35 32 33 32 32 28 28 36 36																	
8000	53 55 58 61 32 27 32 33 33 36 33 34 33 29 29 37 37																	
10000	47 50 52 55 24 25 31 34 34 36 34 35 34 29 29 38 38																	
OVERALL	81 79 82 80 73 72 74 76 77 78 72 75 71 73 71 71 78 79																	

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-0T9-400																		
		RUN 01																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(OPERATION:		TEMP = 24 C																		
(FLIGHT IDLE(66.7X RPM)		BAR PRESS = 0.721 M HG																		
(SINGLE ENGINE GROUND		REL HUMID = 30 X																		
(A/F32T-9 N55 AT		PAGE 2																		
(MCCONNELL AFB, KANSAS																				
(RUNUP IN THE A/F32T-9																				
(FAR FIELD NOISE																				
(N55 MCCONNELL AFB																				
		**																		
FREQ	ANGLE (DEGREES)																			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	66	64	65	67	64	64	64	66	61	68	63	66	66	65	60	70	64	67	71	
31.5	68	67	66	68	65	63	64	61	67	63	64	65	64	62	70	65	66	68		
40	69	68	70	69	67	65	62	63	66	64	64	66	66	66	69	69	65	69		
50	65	62	63	66	73	66	59	68	65	65	62	63	63	62	66	67	65	66		
63	65	62	66	72	69	65	59	69	64	71	59	64	62	59	65	72	64	64		
80	60	60	60	68	65	65	63	68	64	63	66	62	61	56	63	74	63	63		
100	59	60	59	69	64	62	60	63	66	62	58	63	59	54	58	69	62	61		
125	63	60	65	71	60	60	60	57	57	64	67	56	59	57	53	56	66	60		
160	60	60	61	67	58	57	54	53	57	59	52	57	55	51	52	65	56	55		
200	61	60	62	67	54	57	57	56	60	60	60	54	55	49	50	64	55	53		
250	57	57	58	67	51	59	55	55	56	58	54	52	55	47	45	65	56	52		
315	54	53	54	67	48	60	60	53	55	56	58	56	50	53	44	42	69	56		
400	57	57	58	65	46	58	51	52	54	57	55	51	51	47	47	69	54	49		
500	53	53	56	65	42	56	48	52	53	56	57	51	49	45	46	66	52	47		
630	51	51	53	65	39	55	46	55	55	53	57	49	47	42	44	62	47	45		
800	52	52	54	62	39	52	44	49	52	52	54	48	45	42	43	55	46	43		
1000	54	52	54	61	37	51	44	47	49	51	53	46	44	42	42	51	45	42		
1250	52	52	53	59	36	47	43	47	48	49	50	43	42	40	41	46	45	41		
1600	52	51	52	57	33	44	41	46	47	48	45	40	41	37	38	42	43	39		
2000	49	48	49	54	29	39	38	45	44	45	40	35	39	34	35	37	39	36		
2500	57	54	53	52	30	35	46	48	47	47	40	38	38	36	38	38	39	37		
3150	53	51	51	48	32	45	47	47	47	45	40	38	38	35	40	38	38	37		
4000	53	51	49	45	34	42	44	44	44	41	33	31	35	29	34	35	36	34		
5000	50	48	47	42	34	41	42	40	38	31	29	32	26	33	35	36	35			
6300	45	41	40	37	32	38	35	36	32	30	29	23	23	32	36	36	36			
8000	44	40	37	32	34	34	33	37	30											
10000	34	33	30	30	31	29	34													
OVERALL	75	74	75	80	77	74	71	75	75	75	73	73	72	70	76	80	74	76		

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

MEASURED SOUND PRESSURE LEVEL (DB)													IDENTIFICATION:						
1/3 OCTAVE BAND													OMEGA 1.5						
DISTANCE = 100 METERS													TEST DP-0T9-400						
NOISE SOURCE/SUBJECT:													RUN 02						
OPERATION:													METEOROLOGY:						
F100 ENGINE IN THE INTMD POWER (80.8X RPM) TEMP = 24 C																			
A/F32T-9 NSS AT SINGLE ENGINE GROUND BAR PRESS = 0.721 M HG																			
MCCONNELL AFB, KANSAS RUNUP IN THE A/F32T-9 REL HUMID = 30 X													11 MAR 87						
FAR FIELD NOISE NSS MCCONNELL AFB													PAGE 2						
FREQ	ANGLE (DEGREES)												**						
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	83	80	81	77	74	73	74	77	76	78	78	76	74	75	77	73	76	76	76
31.5	84	81	78	75	69	72	75	75	76	76	77	75	70	74	75	77	75	75	75
40	80	82	79	75	66	72	74	76	75	75	75	74	70	71	73	75	73	74	74
50	75	75	74	71	64	68	71	71	71	72	72	72	67	71	70	73	72	73	72
63	76	73	71	69	67	69	69	68	71	70	70	69	65	68	69	71	70	70	70
80	74	73	68	65	63	67	70	70	69	71	69	67	62	63	63	68	68	68	68
100	76	75	63	63	68	67	67	66	65	65	64	65	60	64	59	62	62	64	64
125	78	77	67	65	57	64	62	70	62	63	63	66	58	60	57	61	62	62	62
160	78	79	63	64	55	64	56	58	58	57	64	67	55	62	55	58	60	59	59
200	79	76	62	64	56	66	54	58	59	58	63	69	54	57	53	55	61	62	62
230	78	74	60	61	52	67	53	55	57	56	60	68	52	55	54	52	61	60	60
315	74	69	57	59	49	63	50	53	56	54	58	65	52	54	55	54	62	60	60
400	72	68	57	60	47	60	50	52	54	51	54	61	53	56	56	57	62	60	60
500	70	66	54	55	47	58	48	50	53	50	50	60	53	57	53	55	57	59	59
630	67	64	54	53	45	56	47	48	54	50	48	59	53	56	52	55	55	56	56
800	62	62	55	55	42	53	46	48	54	50	46	57	51	55	50	53	53	53	53
1000	57	58	55	57	39	48	45	47	53	50	44	53	48	53	48	51	51	49	49
1250	54	54	55	55	36	44	45	46	51	50	44	46	46	46	49	48	49	50	46
1600	52	52	53	54	34	42	47	45	49	50	43	41	43	47	45	47	47	44	44
2000	52	50	51	51	32	40	45	45	48	47	42	41	41	44	44	46	45	45	42
2500	51	50	50	50	30	39	44	46	46	44	41	40	39	41	42	44	43	43	39
3150	53	51	51	48	31	38	44	46	44	44	41	39	37	40	40	42	42	35	35
4000	51	49	49	45	31	37	43	44	42	41	38	36	34	37	38	39	39	39	39
5000	52	50	50	42	31	36	43	45	41	41	38	36	33	36	37	37	37	37	31
6300	54	52	51	39	32	36	44	46	42	42	39	37	32	34	37	37	37	37	31
8000	46	41	39	35	32	34	35	43	38	38	38	37	33	34	37	38	38	38	38
10000	40	36	34	33	34	34	35	43	38	38	38	38	33	34	38	38	38	38	38
OVERALL	90	88	85	82	77	80	81	82	82	82	83	82	77	80	81	81	81	82	81

NO BACKGROUND CORRECTION APPLIED.

** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND																				
DISTANCE = 100 METERS		OMEGA 1.5																		
		TEST DP-019-400																		
		RUN 03																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(F100 ENGINE IN THE		TEMP = 24 C																		
(A/F32T-9 NSS AT		BAR PRESS = 0.721 H HG																		
(MCCONNELL AFB, KANSAS		REL HUMID = 30 X																		
(FAR FIELD NOISE		PAGE 2																		
		**																		
FREQ	ANGLE (DEGREES)																			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(25	(85	82	84	81	80	80	83	83	80	81	84	83	80	85	87	82	85	86	85	86
(31.5	(84	81	82	79	78	79	83	83	82	79	84	80	77	81	85	87	88	87	88	87
(40	(82	82	81	77	76	78	80	83	82	78	81	78	75	78	82	87	84	86	84	86
(50	(80	78	79	73	71	75	79	80	80	74	79	75	75	78	80	84	83	83	83	83
(63	(81	76	78	71	70	75	77	75	79	74	79	73	74	76	78	80	81	80	81	81
(80	(78	76	75	70	67	74	74	77	77	73	76	70	71	74	78	76	77	77	76	77
(100	(73	72	73	66	64	72	71	71	71	69	72	67	69	71	71	72	74	74	74	74
(125	(70	71	71	69	59	70	71	68	70	67	70	64	64	67	68	69	71	72	71	72
(160	(70	67	68	63	58	66	68	67	67	64	67	61	60	64	65	68	69	71	72	71
(200	(68	65	66	62	60	64	65	69	66	62	63	60	58	60	63	63	65	68	65	68
(250	(65	62	63	58	55	61	62	65	65	59	59	58	57	60	59	58	59	62	59	62
(315	(61	59	60	57	50	58	60	62	64	57	57	56	58	61	58	61	60	59	61	60
(400	(61	59	60	56	48	55	58	60	63	57	59	56	59	63	61	66	65	65	63	63
(500	(59	57	58	54	45	51	55	58	62	56	61	55	60	64	62	67	64	63	64	63
(630	(56	55	56	52	43	50	56	56	59	56	61	55	56	62	60	64	63	62	63	62
(800	(56	55	55	53	41	50	53	55	59	56	61	53	54	60	59	61	62	63	61	62
(1000	(55	55	55	54	40	49	51	55	58	55	60	52	53	58	57	59	58	59	58	59
(1250	(56	55	54	54	39	49	51	55	58	59	65	52	52	56	56	58	58	57	57	57
(1600	(56	56	55	52	37	48	51	54	55	56	61	52	51	55	54	57	57	57	57	57
(2000	(58	55	57	55	50	59	61	63	57	54	59	52	50	54	53	56	55	55	55	55
(2500	(56	55	56	51	45	54	56	59	57	53	59	51	48	52	51	54	54	53	53	53
(3150	(56	53	54	44	42	50	51	57	57	49	54	49	46	50	49	52	51	50	51	50
(4000	(55	51	53	41	47	47	58	44	48	44	48	43	42	46	46	48	48	47	48	47
(5000	(52	48	50	44	44	44	44	44	40	44	44	41	39	44	44	45	45	45	45	45
(6300	(53	48	50	43	43	43	42	42	42	42	42	40	41	42	42	42	42	42	42	42
(8000	(45	41	43	41	41	41	41	41	41	42	41	42	41	42	42	42	42	42	42	42
(10000	(38	40	39	41	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	43
(OVERALL	(90	88	89	85	84	86	88	89	88	85	89	86	84	88	91	92	92	92	92	92

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-400																		
NOISE SOURCE/SUBJECT:		RUN 04																		
(F100 ENGINE IN THE)		METEOROLOGY:																		
(A/F32T-9 N55 AT)		TEMP = 24 C																		
(MCCONNELL AFB, KANSAS)		BAR PRESS = 0.721 M HG																		
(FAR FIELD NOISE)		REL HUMID = 30 %																		
		PAGE 2																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
																				**
3.15	75	76	78	77	78	76	77	81	87	83	81	87	81	83	81	80	83	83	83	83
4	88	87	89	86	86	87	88	88	89	89	89	90	90	90	89	87	89	89	89	89
5	84	85	84	83	83	82	81	83	84	84	84	85	85	85	85	85	85	85	85	85
6.3	87	85	83	84	80	81	82	83	84	85	82	83	87	85	86	87	88	88	88	88
8	89	88	87	83	85	83	85	85	89	88	85	87	90	88	88	92	89	89	89	89
10	91	89	88	86	87	86	88	88	89	90	89	90	88	93	88	93	93	91	91	91
12.5	92	92	87	88	87	92	90	93	92	94	92	92	92	95	96	94	96	94	94	94
16	92	94	89	88	90	90	93	95	95	95	95	95	94	99	99	99	99	99	99	101
20	90	89	88	88	89	90	92	92	93	96	94	94	96	97	95	94	99	97	97	97
25	92	86	87	86	88	89	92	93	91	93	93	92	88	93	96	95	96	96	96	96
31.5	87	86	88	85	84	86	90	91	89	91	92	89	87	92	92	99	96	97	97	97
40	87	88	86	82	82	82	88	88	89	89	89	86	85	88	93	97	95	96	96	96
50	88	88	86	81	87	85	89	88	87	87	89	86	86	88	91	94	96	95	95	95
63	87	81	82	76	83	83	84	85	85	85	87	80	83	85	87	94	93	93	93	93
80	83	82	79	75	78	81	82	84	83	86	84	78	79	81	82	89	88	88	88	88
100	79	77	77	69	74	79	78	79	79	80	80	73	76	78	78	83	82	82	82	82
125	75	76	76	66	70	76	76	75	76	78	76	71	72	75	74	78	79	77	77	77
160	75	73	73	62	65	74	73	75	75	74	74	69	70	72	73	75	76	74	74	74
200	74	71	70	62	64	72	69	74	73	74	73	67	71	71	70	71	73	72	72	72
250	71	69	68	61	61	70	68	72	72	72	69	69	73	69	69	71	71	73	73	73
315	69	66	66	60	58	68	66	68	72	71	66	68	72	71	68	74	74	76	76	76
400	67	65	65	59	55	66	65	67	70	70	68	67	71	74	71	76	77	78	78	78
500	67	64	65	57	52	63	65	67	69	71	72	66	72	76	75	80	81	82	82	82
630	67	64	64	56	50	59	64	66	67	70	73	64	70	73	73	77	77	77	77	77
800	68	63	63	57	50	58	64	66	68	70	71	63	66	69	70	73	72	73	73	73
1000	68	66	63	58	49	57	64	66	68	70	69	63	65	68	69	72	72	74	74	74
1250	68	65	63	56	49	57	64	65	67	70	67	63	65	68	68	72	73	74	74	74
1600	66	65	61	55	47	55	61	64	65	67	65	61	63	66	67	70	70	71	71	71
2000	67	65	61	53	48	54	61	62	66	67	64	60	61	64	65	68	68	69	69	69
2500	66	63	60	52	48	52	60	61	64	65	62	59	59	62	62	66	65	67	67	67
3150	64	62	58	48	48	50	58	59	61	62	59	56	56	60	59	64	62	64	64	64
4000	62	60	55	45	45	50	54	55	55	55	55	51	51	56	55	59	58	59	59	59
5000	60	58	53	41	41	51	53	53	53	54	52	52	52	52	52	55	54	55	55	55
6300	57	55	49	39	39	49	52	51	52	51	52	51	51	51	52	52	52	52	52	52
8000	52	49	45	39	49	49	52	52	52	52	52	47	47	51	51	52	52	52	52	52
10000	44	44	44	39	48	47	47	53	53	53	53	47	47	53	52	53	53	53	53	53
OVERALL	101	100	98	97	97	99	100	102	101	103	102	102	101	104	104	106	106	106	106	106

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-400																	
NOISE SOURCE/SUBJECT:		METEOROLOGY:																	
(OPERATION:		TEMP = 15 C																	
(BACKGROUND NOISE		BAR PRESS = 0.760 M HG																	
(SINGLE ENGINE GROUND		REL HUMID = 70 X																	
(A/F32T-9 NSS AT		RUNUP IN THE A/F32T-9																	
(MCCONNELL AFB, KANSAS		NSS MCCONNELL AFB																	
(FAR FIELD NOISE		PAGE 3																	
FREQ	ANGLE (DEGREES)	**																	
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
25	65 63 70 66 57 63 68 65 72 66 69 64 69 63 63	72 73																	
31.5	67 65 71 68 60 62 65 65 65 69 63 66 63 63	71 72																	
40	68 67 74 70 56 58 65 66 68 65 68 63 64 64	69 70																	
50	78 71 72 67 61 63 65 66 66 63 67 60 62 61 61	66 67																	
63	66 64 71 67 59 58 62 64 65 62 63 60 62 66 66	70 73																	
80	64 63 69 66 70 62 59 65 66 68 58 62 59 58 58	62 64																	
100	67 66 70 68 64 64 60 63 66 64 58 60 58 55 55	61 59																	
125	73 72 75 73 60 60 59 64 67 64 55 56 53 52 52	62 57																	
160	72 71 73 74 56 56 57 62 67 62 54 53 53 52 49	61 55																	
200	69 70 71 71 56 58 57 61 65 62 53 53 50 50 51	59 55																	
250	64 66 66 66 54 55 58 59 65 62 53 54 50 48 48	60 54																	
315	62 60 62 62 53 53 56 59 65 62 53 54 52 47 48	57 51																	
400	63 60 62 64 55 53 57 59 65 62 54 54 54 48 50	56 50																	
500	59 57 60 60 52 52 57 57 64 62 53 53 52 46 45	56 46																	
630	62 60 61 61 51 54 59 60 65 61 54 52 52 44 44	54 45																	
800	63 61 62 62 54 57 59 60 62 59 52 51 51 45 44	53 45																	
1000	60 61 63 60 51 55 57 58 60 57 53 51 50 43 43	53 44																	
1250	59 59 66 61 49 58 59 60 54 57 51 50 48 42 42	53 43																	
1600	60 59 65 61 47 55 56 59 49 54 49 48 47 39 41	51 42																	
2000	58 59 65 60 45 53 55 57 47 50 46 45 42 38 37	48 40																	
2500	57 57 63 59 43 55 55 55 48 44 42 42 38 35 36	45 43																	
3150	55 57 60 59 42 49 54 50 42 39 40 34 35 35 35	43 42																	
4000	54 55 58 58 40 45 50 50 39 37 38 33 34 33 33	39 39																	
5000	52 54 57 58 34 41 44 43 35 37 36 37 33 34 33	38 38																	
6300	49 51 55 57 32 34 38 37 35 38 35 36 34 35 31	31 31																	
8000	57 59 62 65 37 31 36 37 40 37 38 37 38 37 33	41 41																	
10000	53 55 58 61 30 30 37 39 42 39 40 39 40 35 35	43 44																	
OVERALL	82 79 83 81 73 72 74 76 78 78 73 75 71 73 71	78 79																	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-400																		
NOISE SOURCE/SUBJECT:		RUN 01																		
F100 ENGINE IN THE		METEOROLOGY:																		
A/F32T-9 MSS AT		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
FAR FIELD NOISE		REL HUMID = 70 X																		
		PAGE 3																		
		**																		
FREQ	ANGLE (DEGREES)																			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25		67	64	65	67	64	64	66	61	68	63	66	66	65	60	70	64	67	72	
31.5		68	67	66	69	66	64	64	61	67	63	64	65	65	63	70	66	66	69	
40		69	68	70	69	67	65	62	63	66	64	64	66	66	66	70	69	66	69	
50		65	62	63	66	73	66	60	68	65	65	63	63	63	62	66	68	65	67	
63		65	62	66	72	69	65	59	69	64	71	59	64	62	59	65	72	64	64	
80		61	60	60	68	65	65	59	69	64	63	66	62	61	56	63	74	64	64	
100		59	61	59	69	64	62	60	63	66	63	58	63	59	54	58	70	62	61	
125		63	60	66	71	60	60	58	57	64	67	56	59	57	53	56	66	60	60	
160		60	60	61	68	58	58	55	53	58	59	52	57	55	51	52	65	56	56	
200		61	61	62	68	54	57	58	56	60	60	54	55	55	49	50	64	55	53	
250		57	58	58	67	51	59	56	55	57	59	54	52	55	47	45	65	56	52	
315		54	54	55	67	48	61	53	55	56	58	56	50	53	44	43	69	56	51	
400		58	58	58	66	46	59	51	53	54	57	55	51	51	47	47	69	54	50	
500		53	53	56	66	43	57	48	52	53	56	57	51	49	45	46	66	52	48	
630		52	51	53	65	39	55	46	55	55	54	57	50	47	42	45	62	47	46	
800		52	52	54	62	39	53	45	50	52	53	55	48	46	42	44	56	47	44	
1000		54	52	54	62	37	51	44	48	49	51	53	46	44	42	42	51	46	43	
1250		53	53	54	59	37	48	43	47	48	50	51	44	43	40	41	47	45	42	
1600		52	51	52	57	34	44	41	47	47	48	46	40	41	38	39	42	43	40	
2000		49	49	50	54	29	39	39	45	44	45	40	35	40	34	35	38	40	36	
2500		58	55	54	53	31	36	46	49	48	48	41	39	39	37	38	39	40	38	
3150		55	53	53	50	34	34	46	48	48	46	41	39	39	36	41	39	39	38	
4000		55	52	51	47	36	36	44	46	45	43	34	32	37	30	36	37	37	36	
5000		52	50	49	44			43	44	42	40	34	31	34	28	35	37	38	37	
6300		48	44	43	39			40	38	39	35			32	26	34	39	39	39	
8000		48	44	41	36			38	37	41	34			28	26	37	41	41	41	
10000		40	39	36	36			36	35	40				29	39	44	43	44	44	
OVERALL		76	74	76	80	77	74	72	75	75	76	73	73	72	70	76	80	74	76	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND)																		
DISTANCE = 100 METERS		) OMEGA 1.5																		
		) TEST DP-019-400																		
		) RUN 02																		
NOISE SOURCE/SUBJECT:		) METEOROLOGY:																		
(F100 ENGINE IN THE		) TEMP = 15 C																		
(A/F32T-9 N55 AT		) BAR PRESS = 0.760 M HG																		
(MCCONNELL AFB, KANSAS		) REL HUMID = 70 X																		
(FAR FIELD NOISE		) PAGE 3																		
)-----)																		
) **																		
FREQ		ANGLE (DEGREES)																		
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
25	83	80	81	77	74	73	74	77	76	78	79	77	74	75	77	73			77	77
31.5	84	81	78	75	69	72	75	75	77	77	78	75	70	74	75	77			75	75
40	80	82	79	75	66	72	74	76	76	75	75	75	70	72	74	75			73	74
50	75	75	74	71	64	69	71	71	72	71	73	72	68	71	71	73			73	72
63	76	73	71	69	67	69	69	68	71	71	71	70	65	68	69	72			70	70
80	75	73	68	65	63	67	70	70	70	71	69	67	62	63	63	68			68	68
100	76	75	64	63	68	67	67	67	66	65	65	65	60	64	59	62			68	64
125	79	77	67	65	58	64	63	70	62	63	64	66	58	60	58	61			63	63
160	78	79	63	64	55	64	57	58	59	58	64	68	55	63	55	58			61	60
200	79	76	62	64	56	66	54	58	59	58	64	70	54	58	53	56			61	62
250	78	74	60	62	52	67	53	55	57	56	60	68	53	55	54	52			61	60
315	74	69	57	60	49	63	51	53	56	54	58	65	53	54	55	54			62	60
400	72	68	57	60	47	60	50	52	54	52	54	62	54	56	57	57			62	60
500	71	66	55	56	47	58	49	51	54	50	51	60	53	58	53	55			58	59
630	67	65	54	53	45	56	47	49	54	50	49	60	53	57	52	55			55	56
800	63	62	55	55	42	53	46	48	54	51	46	57	51	55	50	53			54	53
1000	57	58	55	57	39	49	45	47	53	50	45	53	49	53	49	51			51	50
1250	54	55	55	56	36	45	45	47	52	50	45	47	46	49	48	50			50	47
1600	53	53	53	55	34	42	47	46	50	50	44	42	44	47	46	47			48	44
2000	53	51	51	52	33	41	46	46	48	48	43	41	42	45	44	46			45	42
2500	52	51	51	51	31	40	44	47	46	45	41	40	39	42	43	45			44	40
3150	54	52	52	49	32	39	45	47	45	45	42	40	38	41	41	43			43	36
4000	53	51	51	47	32	38	44	46	43	43	40	38	36	39	40	41			41	
5000	54	52	52	44	33	38	45	47	43	43	40	38	35	38	39					
6300	57	55	54	42	34	39	47	49	45	44	42	40	35	36	40					33
8000	50	45	43	39	36	38	39	47	42	42	42	41	37	38	41					
10000	46	41	40	39	40	40	40	49	44	44	44	43	39	40	44	44				44
OVERALL	90	89	85	82	78	80	81	82	82	83	83	82	78	80	81	82			82	82

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-OT9-400																		
NOISE SOURCE/SUBJECT:		RUN 03																		
(F100 ENGINE IN THE		METEOROLOGY:																		
(A/F32T-9 NSS AT		TEMP = 15 C																		
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
(FAR FIELD NOISE		REL HUMID = 70 X																		
(		PAGE 3																		
(**																		
FREQ	(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	85	82	84	81	80	80	80	83	83	80	81	84	83	80	85	87	82	85	86	86
31.5	84	81	82	79	78	79	80	83	83	82	80	84	80	77	82	86	87	88	88	88
40	82	82	81	77	77	78	80	83	82	82	78	81	78	76	78	82	87	84	86	86
50	80	78	80	73	71	75	79	81	80	80	74	80	75	75	78	80	85	83	83	83
63	81	76	78	71	71	75	77	76	79	74	79	73	74	74	76	78	80	80	81	81
80	78	77	76	70	67	74	75	77	77	74	76	71	71	71	72	74	78	77	78	78
100	74	73	73	67	65	73	71	71	72	69	72	67	69	72	72	72	74	74	74	74
125	70	71	71	69	59	70	72	68	70	67	70	64	64	64	67	68	70	71	72	72
160	70	68	69	63	58	66	68	68	67	65	67	61	60	65	66	68	68	69	71	71
200	69	66	66	62	60	64	66	69	66	62	63	60	58	61	63	63	63	65	68	68
250	65	62	63	58	55	61	62	65	65	65	59	58	58	60	59	59	59	59	62	62
315	62	59	60	57	50	58	58	60	62	64	58	57	56	58	61	58	62	61	59	59
400	61	59	60	56	48	55	58	60	63	63	57	60	57	59	64	61	67	65	63	63
500	59	57	58	54	45	51	55	59	62	57	61	56	60	64	62	67	64	63	63	63
630	56	56	56	52	43	50	56	57	59	57	62	55	57	62	61	64	63	62	62	62
800	56	56	55	53	42	50	53	55	59	56	61	53	54	60	59	61	62	63	63	63
1000	56	55	55	54	40	50	51	55	58	55	60	52	53	58	57	59	59	60	60	60
1250	56	55	55	54	40	49	52	56	59	55	65	53	53	57	56	58	58	58	58	58
1600	57	56	55	52	38	49	52	54	56	56	61	52	52	56	55	58	57	57	57	57
2000	58	56	58	55	50	60	61	64	58	55	59	53	51	54	54	56	55	55	55	55
2500	59	56	57	52	45	54	57	60	58	54	60	52	49	53	52	55	54	54	54	54
3150	57	54	55	45	43	43	51	52	58	50	55	50	47	51	50	53	52	51	51	51
4000	57	53	54	42		49	49	49	59	46	50	45	44	48	48	50	49	49	49	49
5000	54	50	52		46	46	46	46	46	42	46	43	41	46	46	47	47	47	47	47
6300	56	51	53		45	45	45	45	44	44	44	43	41	44	44	45	45	45	45	45
8000	49	45	47		45	45	45	45	45	45	46	45	45	46	46	46	46	46	46	46
10000	44	46	44		44	44	44	47	47	47	48	47	48	48	48	48	48	48	48	48
OVERALL	90	88	89	85	84	86	89	90	89	86	90	87	85	89	91	92	92	92	93	93

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-OT9-400																		
		RUN 04																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(OPERATION:		TEMP = 15 C																		
(AFTERBURNER POWER(90.6X)		BAR PRESS = 0.760 M MG																		
(SINGLE ENGINE GROUND		REL HUMID = 70 %																		
(A/F32T-9 NSS AT		PAGE 3																		
(MCCONNELL AFB, KANSAS																				
(FAR FIELD NOISE																				
(NSS MCCONNELL AFB																				
		**																		
FREQ	ANGLE (DEGREES)																			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15		76	76	78	77	78	76	78	81	87	83	82	87	82	84	82	80	83	83	
4		88	87	89	89	86	87	89	89	89	89	90	90	90	90	89	88	89	89	
5		84	86	84	83	84	83	81	83	84	85	85	86	85	85	86	85	84	83	
6.3		87	85	83	84	80	81	83	83	85	85	83	83	87	86	86	87	88	88	
8		89	88	87	83	85	83	86	86	89	88	85	88	91	88	88	92	90	90	
10		91	89	88	86	87	86	88	88	89	90	89	90	88	93	88	93	91	91	
12.5		92	93	88	88	87	92	90	93	92	94	93	92	94	95	97	94	96	94	
16		94	89	88	88	90	90	93	96	95	96	96	95	94	99	99	99	95	101	
20		91	89	88	88	89	89	90	92	94	96	94	95	96	97	96	94	99	97	
25		92	86	87	86	88	89	93	93	92	93	93	93	88	93	96	95	96	96	
31.5		88	86	88	85	84	86	91	91	89	91	92	89	88	92	93	99	97	97	
40		87	88	86	82	82	86	88	89	89	89	90	86	85	88	93	98	95	96	
50		88	88	86	81	87	85	89	88	87	87	89	86	86	88	91	94	96	96	
63		87	81	82	76	83	83	84	85	85	88	87	80	84	85	87	94	93	93	
80		84	82	80	75	79	81	82	84	83	86	84	78	80	82	82	89	88	88	
100		79	77	77	69	75	79	78	79	79	80	80	73	76	79	78	83	82	82	
125		76	76	76	66	70	76	77	75	77	79	77	72	73	75	75	78	79	77	
160		75	74	73	63	65	74	74	75	75	75	74	70	70	72	73	76	76	75	
200		74	72	70	62	64	72	70	74	73	74	73	68	71	71	71	71	73	73	
250		72	69	68	61	61	71	68	72	72	72	69	69	73	69	69	71	71	74	
315		69	66	66	60	59	68	67	68	72	71	66	68	72	71	69	74	74	76	
400		68	65	66	59	55	67	66	68	70	71	68	67	72	74	71	77	77	78	
500		68	65	65	57	53	63	65	68	69	71	72	66	72	76	75	80	81	82	
630		67	64	64	56	51	60	64	66	67	71	73	64	71	73	73	78	77	77	
800		68	66	63	57	50	59	64	66	68	70	71	64	66	69	70	74	72	73	
1000		69	66	63	58	50	57	65	66	68	70	69	63	65	69	69	72	72	74	
1250		68	65	63	57	50	57	64	66	68	70	68	63	65	68	69	72	73	74	
1600		67	65	62	55	48	56	62	64	65	68	66	61	64	66	67	71	70	72	
2000		67	65	62	54	49	55	62	63	67	68	65	61	62	65	65	69	69	70	
2500		67	64	61	53	53	53	61	62	65	66	63	60	60	63	63	67	66	67	
3150		65	63	59	50	52	59	60	62	63	60	58	57	61	60	65	63	65	65	
4000		64	61	57	46	56	57	57	57	59	57	52	53	57	57	61	60	61	61	
5000		62	60	55	43	53	55	55	55	56	55	53	54	54	54	57	56	58	58	
6300		60	58	52	42	51	54	54	54	55	54	54	54	54	53	55	54	55	55	
8000		56	53	49	43	53	53	53	56	56	56	56	56	56	56	56	56	56	56	
10000		49	45	54	53	53	53	58	58	58	58	58	53	58	58	58	58	58	58	
OVERALL		101	100	98	97	98	99	101	102	102	103	102	102	102	104	105	106	106	106	

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)

IDENTIFICATION:

6.4 DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY: OMEGA 1.5
 F100 ENGINE IN THE (BACKGROUND NOISE) TEMP = 15 C TEST DP-OT9-400
 A/F32T-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG RUN 05
 MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 % 11 MAR 87
 FAR FIELD NOISE (MSS MCCONNELL AFB) PAGE 4

HAZARD/PROTECTION

C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR
 A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR
 LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)

NO PROTECTION

	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
OASLC	81	79	82	80	72	71	73	75	77	76	71	73	69	70	70	70	76	77	77
OASLA	71	71	75	73	60	65	67	69	70	67	61	60	59	53	53	53	63	57	57
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440

COMMUNICATION

PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)

PSIL	64	63	67	65	52	57	60	62	59	57	52	52	50	45	45	45	54	48	
------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--

ANNOYANCE

PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)
 TONE CORRECTION (C IN DB)

PNLT	86	86	90	88	74	79	79	81	83	79	72	72	70	66	67	67	75	72	
C	1	1	1	1	1	1	0	2	0	0	0	0	0	0	1	1	0	0	

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)													IDENTIFICATION:	
6.4 DISTANCE = 100 METERS													OMEGA 1.5	
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:													TEST DP-019-400	
(F100 ENGINE IN THE (FLIGHT IDLE(66.7x RPM)) TEMP = 15 C													RUN 01	
(A/F32T-9 N9B AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG													11 MAR 87	
(MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X													PAGE 4	
(FAR FIELD NOISE (NSS MCCONNELL AFB))														
													**	
0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180														
HAZARD/PROTECTION														
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR														
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR														
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)														
NO PROTECTION														
OASLC 74 73 74 80 76 73 70 74 74 75 71 72 71 68 74 80 73 74														
OASLA 65 64 65 71 54 62 58 61 62 62 62 57 56 52 54 70 58 56														
T 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440														
COMMUNICATION														
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)														
PSIL 59 58 58 62 50 50 54 54 54 54 52 48 47 44 46 54 49 46														
ANNNOYANCE														
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)														
TONE CORRECTION (C IN DB)														
PNLT 82 80 80 83 69 73 73 76 76 77 74 70 69 64 69 82 72 69														
C 2 1 1 0 2 0 1 1 0 1 1 1 0 0 1 0 0 0														
** NO DATA COLLECTED.														

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																
IDENTIFICATION:																
6.4 DISTANCE = 100 METERS																
NOISE SOURCE/SUBJECT:																
(F100 ENGINE IN THE)																
(A/F32T-9 N55 AT)																
(MCCONNELL AFB, KANSAS)																
(FAR FIELD NOISE)																
(NSS MCCONNELL AFB)																
METEOROLOGY:																
TEMP = 15 C																
BAR PRESS = 0.760 M HG																
REL HUMID = 70 X																
PAGE 4																
OMEGA 1.5																
TEST DP-019-400																
RUN 03																
11 MAR 87																
HAZARD/PROTECTION																
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																
NO PROTECTION																
OASLC	88	86	87	82	81	84	86	87	87	83	87	84	82	86	88	90
OASLA	70	68	69	65	58	66	68	70	70	67	72	64	65	69	68	71
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																
PSIL	62	60	61	56	59	61	64	59	64	59	64	57	57	61	60	63
ANNOYANCE																
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																
TONE CORRECTION (C IN DB)																
PNLT	87	84	84	79	74	83	86	88	88	81	87	79	77	82	82	86
C	1	1	0	1	3	3	2	2	2	1	1	0	0	0	0	0

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82) IDENTIFICATION:

6.4 DISTANCE = 100 METERS OMEGA 1.5
 TEST DP-019-400
 RUN 04

NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:
 F100 ENGINE IN THE (AFTERBURNER POWER(90.6%)) TEMP = 15 C
 A/F32T-9 MSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG
 MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 %
 FAR FIELD NOISE (NSS MCCONNELL AFB) PAGE 4

ANGLE (DEGREES) **

	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
HAZARD/PROTECTION																			
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																			
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																			
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																			
NO PROTECTION																			
OASLC	95	94	92	90	92	93	96	96	96	97	97	95	95	98	99	102			102
OASLA	79	76	74	67	66	72	75	76	78	80	79	74	77	80	79	84			84
T	1142	1440	1440	1440	1440	1440	1440	1440	1358	960	1142	1440	1440	960	1142	480			480
COMMUNICATION																			
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																			
PSIL	71	69	66	59			67	68	70	72	71	66	68	71	71	75			75
ANNNOYANCE																			
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHDB)																			
TONE CORRECTION (C IN DB)																			
PNLT	94	92	89	81	84	87	91	92	93	94	93	88	89	93	94	98			100
C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			1

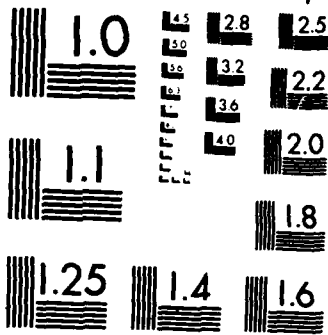
** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-400																		
NOISE SOURCE/SUBJECT:		OPERATION:																		
F100 ENGINE IN THE		METEOROLOGY:																		
A/F32T-9 NSS AT		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 H HG																		
FAR FIELD NOISE		REL HUMID = 70 X																		
		MSS MCCONNELL AFB																		
		PAGE 5																		
		**																		
FREQ	ANGLE (DEGREES)																			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5		72	70	77	73	63	67	71	71	70	75	71	74	68	72	68	68	68	76	77
63		78	73	76	72	71	67	67	70	70	71	66	69	64	66	68	68	68	72	74
125		76	75	77	77	66	66	64	68	71	68	61	62	61	59	57	57	57	66	62
250		71	72	72	73	59	60	62	64	70	67	58	58	56	53	54	54	54	64	58
500		67	64	66	67	58	58	62	64	69	67	59	58	58	51	52	52	52	60	53
1000		66	65	69	66	56	62	63	64	64	63	57	56	54	48	48	48	58	49	49
2000		63	63	69	65	50	59	60	62	53	56	51	51	48	42	43	43	54	47	47
4000		59	60	63	63	45	51	56	55	51	44	42	43	38	39	39	39	45	45	45
8000		59	61	64	67	38	37	42	43	42	45	42	43	42	43	38	38	46	47	47
OVERALL		82	79	83	81	73	72	74	76	78	78	73	75	71	73	71	71	71	78	79

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
OCTAVE BAND																			
6.5		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-400																	
NOISE SOURCE/SUBJECT:		METEROLOGY:																	
(OPERATION:		TEMP = 15 C																	
(FLIGHT IDLE(66.7X RPM)		BAR PRESS = 0.760 M HG																	
(SINGLE ENGINE GROUND		REL HUMID = 70 X																	
(A/F32T-9 N55 AT		RUN 01																	
(MCCONNELL AFB, KANSAS		11 MAR 87																	
(FAR FIELD NOISE		PAGE 5																	
(N55 MCCONNELL AFB																			
FREQ		ANGLE (DEGREES)																	
((HZ)		**																	
(0		180																	
(31.5		71																	
(63		72																	
(125		73																	
(250		74																	
(500		75																	
(1000		76																	
(2000		77																	
(4000		78																	
(8000		79																	
(OVERALL		80																	
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
31.5	73	72	72	71	69	69	67	72	68	70	71	70	68	75	72	71	75		
63	69	66	69	74	75	70	64	74	69	73	68	67	65	70	77	69	70		
125	66	65	67	74	65	65	63	64	69	69	61	65	62	58	61	72	65	64	
250	63	63	64	72	57	64	61	60	63	64	60	57	59	52	52	72	60	57	
500	60	60	61	70	48	62	54	58	59	61	61	55	54	50	51	71	57	53	
1000	58	57	59	66	43	56	49	53	55	56	58	51	49	46	47	57	51	48	
2000	59	57	57	60	36	46	48	52	52	52	48	43	45	41	42	45	46	43	
4000	59	57	56	52	38	49	51	51	48	43	41	42	37	43	42	43	42	42	
8000	51	48	45	42	43	43	42	45	38	43	41	42	33	42	47	46	46	46	
OVERALL	76	74	76	80	77	74	72	75	75	76	73	73	72	70	76	80	74	76	

** NO DATA COLLECTED.



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5																	
NOISE SOURCE/SUBJECT:		TEST DP-079-400																	
(F100 ENGINE IN THE		RUN 02																	
(A/F32T-9 NSS AT		11 MAR 87																	
(MCCONNELL AFB, KANSAS		PAGE 5																	
(FAR FIELD NOISE																			
		METEOROLOGY:																	
		TEMP = 15 C																	
		BAR PRESS = 0.760 M HG																	
		REL HUMID = 70 X																	
		OPERATION:																	
		INTMD POWER (80.8X RPM)																	
		SINGLE ENGINE GROUND																	
		RUNUP IN THE A/F32T-9																	
		NSS MCCONNELL AFB																	
		ANGLE (DEGREES)																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	68	66	84	80	76	77	79	81	81	82	82	80	77	79	80	80	80	80	80
63	80	79	77	74	70	73	75	75	76	76	76	75	70	73	73	76	76	76	75
125	82	82	70	69	69	70	69	72	68	68	69	71	63	67	62	66	66	69	67
250	82	79	65	67	58	71	58	61	62	61	66	73	58	61	59	59	66	66	66
500	75	71	60	62	51	63	54	55	59	55	57	65	58	62	59	61	64	64	64
1000	64	64	60	61	45	55	50	52	58	55	50	59	54	58	54	56	57	57	55
2000	57	56	57	57	38	46	51	51	53	53	47	46	47	50	49	51	51	47	47
4000	58	57	56	52	37	43	50	52	49	48	45	44	41	44	45	45	45	45	45
8000	58	56	55	45	42	44	48	48	49	48	47	46	42	43	43	47	47	47	45
OVERALL	90	89	85	82	78	80	81	82	82	83	83	82	78	80	81	82	82	82	82

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:	
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5	TEST DP-OT9-400
NOISE SOURCE/SUBJECT:		METS	
(OPERATION:		RUN 03	
(MILITARY POWER(90.6X RPM)		11 MAR 67	
(SINGLE ENGINE GROUND		PAGE 5	
(RUMUP IN THE A/F32T-9			
(NSS MCCONNELL AFB			
METEOROLOGY:			
TEMP = 15 C			
BAR PRESS = 0.760 M HG			
REL HUMID = 70 X			
FREQ	ANGLE (DEGREES)		
(HZ)	0 50 60 70 80 90 100 110 120 130 140 150 160 170 180		
31.5	89 87 84 83 84 87 88 86 84 88 86 83 87 90 91	91	91
63	85 82 83 76 72 66 75 75 74 75 72 75 69 71 74 75	87	86
125	77 75 76 68 64 62 67 68 71 70 65 63 63 65 66	77	77
250	71 68 68 64 62 67 68 71 70 65 63 63 63 65 66	66	70
500	64 62 63 59 51 57 61 63 66 62 66 61 63 68 66	71	68
1000	61 60 60 59 45 54 57 60 64 62 67 58 58 63 62	64	65
2000	63 61 61 58 52 61 63 66 62 60 65 57 55 59 58	61	60
4000	61 58 59 47	53	55
8000	57 52 55	51	51
OVERALL	90 88 89 85 84 86 89 90 89 86 90 87 85 89 91 92	92	93

NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
6.5 OCTAVE BAND		DMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-400																	
NOISE SOURCE/SUBJECT:		RUN 04																	
(F100 ENGINE IN THE		15 C																	
(A/F32T-9 M88 AT		BAR PRESS = 0.760 M HG																	
(MCCONNELL AFB, KANSAS		REL HUMID = 70 %																	
(FAR FIELD NOISE		PAGE 5																	
(PREC																			
(INZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4	90	90	90	90	89	89	90	90	92	91	91	93	92	92	91	90	91	91	91
8	94	93	91	89	90	89	91	91	93	93	91	92	94	95	92	96	96	95	95
16	96	97	93	93	94	96	97	99	98	100	99	99	102	102	101	102	103	102	103
31.5	95	92	92	90	90	92	96	95	96	96	97	95	92	96	99	102	101	101	101
63	91	90	89	83	89	88	91	91	90	92	92	88	89	90	93	98	98	98	98
125	82	81	81	71	76	82	81	82	82	83	83	76	78	81	80	85	84	84	84
250	77	74	73	66	67	75	73	77	77	78	75	73	77	75	74	77	78	79	79
500	72	69	70	62	58	69	70	72	74	76	76	71	76	80	78	83	84	84	84
1000	73	70	68	62	55	62	69	71	73	75	74	68	70	74	74	78	77	79	79
2000	72	70	66	59	51	60	66	68	70	72	69	65	67	70	70	74	73	75	75
4000	68	66	62	52		61	63	64	65	65	63	59	58	63	63	67	66	67	67
8000	62	59	55	48	56	53	61	61	61	61	61	61	61	61	61	61	61	61	61
OVERALL	101	100	98	97	98	99	101	102	102	103	102	102	102	104	105	106	106	106	106

** NO DATA COLLECTED.

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APPENDIX E
Far-Field Noise on the
TF41-A1 Engine

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TABLE 7.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
TF41-A1 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 6 March 1986

Time of Test: 0945 Hrs

Engine Operation

Idle	57.2 %RPM
80 %	80.7 %RPM
Military Power	96.5 %RPM

Meteorology

Temperature	16 Deg C
Bar Pressure	0.728 M Hg
Rel Humidity	56 %
Winds - Speed	3 - 8 Knots
- Direction	260 Deg (True)

MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-SBO																	
NOISE SOURCE/SUBJECT:		RUN 05																	
(OPERATION:		METEOROLOGY:																	
(BACKGROUND NOISE		TEMP = 16 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.728 M HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 56 X																	
(MCDONNELL AFB, KANSAS		PAGE 2																	
(FAR FIELD NOISE		MSS MCCONNELL AFB																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	58	58	57	52	54	57	59	61	59	59	56	57	59	58	59	59	59	63	56
31.5	61	60	59	58	61	59	62	64	65	63	61	60	64	65	62	65	62	70	59
40	61	59	60	61	57	58	64	64	64	67	64	63	66	69	65	65	65	69	62
50	62	62	61	64	58	57	62	64	66	60	61	60	61	63	64	64	64	69	60
63	64	63	65	66	58	61	62	62	63	64	61	63	60	61	63	61	63	69	62
80	64	64	63	65	55	58	62	60	59	62	59	59	59	58	60	59	63	61	
100	64	66	64	65	53	55	62	59	58	61	57	59	57	56	57	59	59	59	
125	65	66	66	67	54	55	59	58	61	58	57	56	56	56	56	56	58	59	
160	62	65	64	67	50	50	55	55	56	61	56	55	54	52	54	57	56	56	
200	67	69	67	66	55	56	58	58	61	55	58	52	54	50	53	53	56	55	
250	57	66	61	60	48	51	50	53	53	58	49	49	46	50	48	49	50	51	
315	54	63	61	61	45	48	49	50	51	56	48	48	46	51	49	51	51	51	
400	57	60	62	61	45	51	52	53	50	56	52	53	50	54	51	53	51	52	
500	54	58	58	60	40	46	48	50	48	51	49	48	47	51	50	52	49	49	
630	53	60	59	60	38	44	47	51	50	51	49	48	47	53	52	52	49	48	
800	52	57	60	61	35	41	45	49	50	50	49	46	45	51	50	50	46	46	
1000	51	56	56	59	33	38	44	46	46	49	45	42	43	51	48	48	43	43	
1250	53	57	56	57	32	35	41	43	43	47	42	40	41	48	47	47	41	41	
1500	53	56	55	54	31	32	39	41	41	48	41	37	38	45	45	47	40	39	
2000	50	53	53	53	28	28	36	39	39	45	39	34	35	43	42	45	38	36	
2500	46	51	52	54	26	35	38	36	36	41	35	30	33	42	39	42	36	34	
3150	42	48	48	52	28	27	33	36	34	37	32	27	31	38	36	39	36	33	
4000	37	45	45	50	29	32	34	34	34	36	31	26	30	35	33	35	34	33	
5000	32	42	42	48	29	26	30	29	31	32	31	25	30	32	31	32	32	31	
6300	30	37	34	40	30	26	30	26	31	30	31	26	30	31	31	31	32	31	
8000	31	34	32	35	31	27	32	27	32	30	32	27	32	32	32	32	32	32	
10000	28	30	29	30	32	28	33	28	32	29	33	28	33	33	33	33	33	33	
OVERALL	74	76	75	76	66	68	70	71	72	75	71	70	69	71	73	71	76	70	

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
7.2 1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-079-S80																	
NOISE SOURCE/SUBJECT:		RUN 01																	
(OPERATION:		METEOROLOGY:																	
(FLIGHT IDLE(57.2X RPM)		TEMP = 16 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.728 H HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 56 X																	
(NSS MCCONNELL AFB		PAGE 2																	
FREQ		ANGLE (DEGREES)																	
((HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
((25	(71	(68	(68	(66	(64	(64	(65	(65	(68	(67	(66	(65	(65	(66	(67	(65	(64	(68	(68
((31.5	(77	(75	(70	(70	(65	(61	(62	(68	(73	(70	(68	(71	(71	(70	(70	(69	(73	(72	(69
((40	(75	(76	(72	(70	(59	(60	(62	(64	(67	(68	(69	(69	(67	(65	(64	(67	(69	(69	(69
((50	(70	(69	(70	(66	(62	(62	(63	(64	(68	(67	(63	(64	(63	(64	(65	(64	(67	(68	(68
((63	(76	(73	(69	(70	(63	(65	(67	(64	(69	(66	(61	(65	(64	(63	(63	(63	(65	(67	(67
((80	(63	(62	(73	(71	(58	(58	(60	(60	(66	(59	(58	(63	(59	(60	(60	(58	(60	(64	(64
((100	(60	(60	(76	(75	(60	(56	(58	(60	(63	(59	(59	(61	(58	(57	(57	(60	(57	(60	(60
((125	(61	(59	(69	(66	(60	(55	(56	(57	(61	(56	(55	(58	(55	(55	(55	(62	(56	(56	(56
((160	(59	(59	(63	(62	(57	(53	(51	(56	(60	(53	(50	(54	(50	(51	(52	(53	(51	(52	(51
((200	(61	(65	(65	(64	(56	(53	(49	(56	(63	(54	(49	(52	(50	(48	(47	(50	(50	(50	(50
((250	(57	(57	(58	(58	(54	(52	(47	(53	(59	(48	(44	(48	(47	(45	(44	(49	(49	(46	(46
((315	(57	(54	(55	(57	(52	(52	(46	(49	(58	(47	(44	(47	(48	(47	(45	(46	(47	(47	(47
((400	(56	(54	(56	(60	(51	(51	(46	(48	(58	(47	(46	(48	(50	(48	(46	(47	(46	(46	(46
((500	(52	(51	(54	(55	(49	(53	(44	(46	(57	(47	(44	(45	(50	(47	(44	(46	(47	(45	(45
((630	(53	(54	(55	(55	(44	(47	(44	(43	(54	(46	(47	(45	(47	(46	(46	(46	(46	(46	(46
((800	(52	(53	(54	(55	(39	(37	(43	(43	(50	(45	(46	(43	(44	(45	(45	(45	(45	(47	(45
((1000	(50	(50	(53	(52	(35	(34	(40	(43	(44	(44	(42	(42	(42	(44	(46	(45	(44	(44	(43
((1250	(49	(50	(53	(53	(33	(33	(42	(44	(46	(44	(44	(42	(42	(44	(46	(43	(44	(43	(43
((1600	(48	(50	(53	(53	(30	(32	(38	(39	(46	(42	(42	(40	(39	(41	(44	(42	(43	(42	(42
((2000	(47	(46	(50	(51	(29	(31	(38	(38	(45	(42	(39	(37	(35	(38	(41	(39	(40	(40	(40
((2500	(47	(46	(49	(49	(28	(31	(37	(38	(43	(38	(37	(35	(33	(36	(38	(36	(36	(38	(38
((3150	(45	(44	(48	(47	(30	(32	(36	(36	(40	(35	(34	(33	(33	(35	(37	(34	(33	(35	(35
((4000	(43	(42	(45	(44	(29	(33	(35	(36	(40	(36	(34	(33	(33	(35	(37	(34	(34	(34	(34
((5000	(41	(40	(42	(41	(29	(34	(35	(35	(40	(35	(34	(34	(34	(34	(34	(34	(34	(34	(34
((6300	(39	(38	(39	(39	(30	(35	(35	(35	(40	(35	(35	(35	(35	(35	(35	(35	(35	(35	(35
((8000	(38	(37	(38	(38	(32	(37	(37	(37	(41	(37	(36	(36	(36	(36	(37	(37	(37	(37	(37
((10000	(38	(38	(38	(38	(33	(38	(38	(38	(43	(38	(37	(37	(37	(38	(38	(38	(38	(38	(38
((OVERALL	(82	(81	(81	(80	(72	(71	(72	(73	(78	(75	(74	(75	(74	(74	(74	(74	(74	(76	(76

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-580																	
NOISE SOURCE/SUBJECT:		RUN 02																	
(OPERATION:		METEOROLOGY:																	
(INTMD POWER (80.7X RPM)		TEMP = 16 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.728 H MG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 56 X																	
(M8S MCCONNELL AFB		PAGE 2																	
FREQ		**																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(25	88	85	81	79	76	78	80	80	79	81	79	77	77	77	80	74	78	79	
(31.5	88	85	79	75	73	78	77	78	79	78	76	72	72	75	74	74	75	76	
(40	83	82	77	73	68	71	74	79	75	75	72	70	71	71	75	73	69	71	
(50	79	78	77	76	69	73	71	74	73	70	70	67	68	69	73	68	70		
(63	79	76	74	70	69	73	72	71	73	72	70	68	66	67	68	70	65	68	
(80	70	69	68	65	71	67	66	68	66	68	66	70	60	62	65	62	64		
(100	67	66	66	62	65	67	63	64	63	62	62	59	56	58	59	59	59		
(125	69	64	64	62	64	63	61	62	61	60	57	61	56	54	56	58	57	57	
(160	62	62	62	61	57	59	56	59	58	57	52	56	53	50	52	56	56	53	
(200	63	63	64	62	55	57	55	57	59	56	51	52	50	46	47	54	51	53	
(250	58	58	58	58	54	54	49	56	56	54	48	47	44	45	44	45	45	45	
(315	56	56	55	58	51	50	45	56	54	56	49	45	45	47	43	55	45	43	
(400	59	57	55	62	48	47	47	54	54	56	51	46	46	48	47	54	47	46	
(500	50	51	55	45	46	46	46	53	52	53	49	46	44	47	48	52	46	45	
(630	50	50	50	43	46	45	51	50	51	51	47	43	47	49	50	46	45		
(800	49	50	55	41	45	44	49	50	49	52	44	42	47	47	48	44	44		
(1000	49	50	51	38	44	42	47	49	49	51	43	41	43	47	47	43	43		
(1250	48	50	50	35	42	41	44	47	47	52	42	41	43	47	45	42	42		
(1600	48	51	49	32	41	41	43	47	45	49	42	38	41	45	42	40	40		
(2000	49	49	50	31	38	40	43	50	53	57	41	35	41	42	40	39	37		
(2500	52	51	50	33	40	45	47	52	48	54	42	35	39	41	40	41	40		
(3150	52	51	48	33	38	42	43	44	41	45	42	34	37	38	38	38	36		
(4000	47	46	44	46	33	37	38	40	40	37	38	38	33	38	38	38	39	34	
(5000	50	49	46	43	34	38	40	41	38	39	40	35	40	41	40	40	37		
(6300	45	44	41	38	35	37	37	41	40	36	36	40	35	40	40	40	40	36	
(8000	44	42	39	38	37	37	38	42	42	37	42	37	42	42	42	42	42	37	
(10000	44	39	38	38	38	38	38	43	38	38	43	38	43	43	43	43	43	38	
(OVERALL	92	90	87	84	81	81	83	84	84	84	84	82	80	80	82	81	81	82	

NO BACKGROUND CORRECTION APPLIED.

** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-580																	
NOISE SOURCE/SUBJECT:		RUN 03																	
(OPERATION:		METEOROLOGY:																	
(MILITARY PWR (96.3X RPM)		TEMP = 16 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.728 M HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 56 X																	
(MCONNELL AFB, KANSAS		PAGE 2																	
(FAR FIELD NOISE		MSS MCCONNELL AFB																	
FREQ		ANGLE (DEGREES)																	
((HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
((25	88	85	86	82	83	83	83	85	83	87	83	84	79	84	87	85	84	86	86
((31.5	87	85	82	80	80	82	84	85	83	86	84	82	78	82	83	87	86	88	88
((40	86	85	82	76	78	80	84	85	85	82	82	79	76	78	80	85	83	85	85
((50	82	81	80	72	74	77	80	81	82	79	79	76	76	77	80	81	81	81	81
((63	85	80	80	72	75	79	81	79	81	83	80	75	75	76	78	82	79	80	80
((80	80	78	76	71	71	76	79	80	80	81	78	73	72	73	74	74	77	77	77
((100	75	76	74	65	67	73	77	77	74	74	73	68	69	71	70	74	74	72	72
((125	72	71	71	63	64	72	75	74	72	74	69	67	65	68	67	70	72	69	69
((160	70	69	67	62	60	69	72	72	69	71	68	66	61	63	64	65	69	67	67
((200	66	67	66	62	58	66	68	72	68	69	63	63	58	60	61	63	67	68	68
((250	63	62	62	58	53	65	63	68	64	68	58	58	55	59	56	59	60	60	60
((315	61	61	59	57	50	62	61	66	64	66	57	54	53	57	55	61	61	57	59
((400	63	62	61	63	51	58	60	63	67	66	60	53	55	59	61	65	61	63	63
((500	62	60	60	59	48	55	58	62	67	65	60	54	56	60	62	65	60	61	61
((630	60	60	58	57	46	52	56	60	61	62	59	52	54	58	60	64	60	62	62
((800	60	60	58	57	43	50	56	59	61	60	58	51	53	56	58	61	61	62	62
((1000	60	60	59	55	42	51	56	58	61	61	58	51	52	56	58	60	60	60	60
((1250	59	58	58	54	41	51	55	58	60	61	57	50	51	54	56	58	56	58	58
((1600	59	59	59	53	40	50	54	56	57	59	54	49	49	52	54	57	55	57	57
((2000	60	59	58	53	41	49	54	58	59	55	48	47	47	51	53	55	54	56	56
((2500	59	58	57	52	41	48	53	57	59	57	54	48	47	49	51	54	53	54	54
((3150	58	57	55	50	39	45	51	53	54	54	51	46	43	47	48	52	50	51	51
((4000	58	56	54	47	38	43	49	51	49	51	47	43	41	44	46	49	48	49	49
((5000	53	52	50	43	39	42	45	48	45	50	46	41	41	44	46	50	48	49	49
((6300	50	48	47	42	40	41	43	46	42	47	42	41	40	42	42	46	43	46	46
((8000	47	46	46	42	42	42	43	47	43	47	43	42	42	42	43	47	43	47	47
((10000	44	44	44	43	43	43	43	48	43	48	43	43	43	43	43	48	43	48	48
((OVERALL	93	91	90	86	87	88	90	91	91	92	89	88	85	88	90	92	91	92	92

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-0T9-SBO																		
NOISE SOURCE/SUBJECT:		RUN 05																		
TF41 ENGINE IN THE		METEOROLOGY:																		
A/F32T-9 NSS		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
FAR FIELD NOISE		REL HUMID = 70 X																		
		PAGE 3																		
FREQ (HZ)	ANGLE (DEGREES)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	58	58	57	57	57	52	54	57	59	61	59	59	56	57	59	58	59	59	63	56
31.5	61	60	59	60	59	58	61	59	62	64	65	63	61	60	64	66	62	62	70	59
40	61	59	60	61	57	58	59	64	65	70	67	64	63	66	69	65	69	63	69	63
50	62	62	61	64	58	58	58	62	64	67	60	61	60	61	63	64	69	60	69	60
63	64	64	65	67	58	62	62	62	63	64	62	63	60	61	64	61	64	61	69	62
80	64	65	63	65	55	58	62	60	60	62	59	59	59	58	60	59	60	59	63	61
100	64	67	64	65	53	55	63	59	58	61	58	59	57	56	57	59	59	59	59	59
125	65	66	66	67	54	55	59	58	58	58	57	56	56	56	58	56	56	58	59	59
160	62	65	64	67	50	50	56	55	55	56	61	56	55	54	53	54	57	56	56	56
200	68	70	67	66	55	56	58	58	62	58	61	55	58	53	54	50	53	56	55	55
250	57	66	61	60	48	51	50	53	53	58	49	49	46	50	48	49	48	49	50	51
315	54	63	61	61	45	48	50	51	51	56	48	48	46	51	49	52	51	51	51	51
400	57	60	62	61	45	52	52	53	50	56	52	53	50	54	51	53	51	52	51	52
500	55	58	58	60	40	46	48	50	48	51	49	48	47	51	50	52	52	49	49	48
630	53	60	59	60	38	44	47	51	50	51	49	48	47	53	52	52	49	49	48	48
800	53	57	60	61	35	41	45	49	50	50	49	46	45	51	50	50	46	46	46	46
1000	51	56	56	59	33	38	44	46	46	46	49	45	42	43	51	48	48	43	43	43
1250	53	57	57	57	32	35	41	43	44	47	43	40	41	48	47	47	47	41	41	41
1600	53	56	55	54	31	32	39	42	42	48	41	37	38	46	45	48	40	39	40	39
2000	50	53	53	53	29	28	26	39	39	45	39	34	35	43	43	45	38	37	37	37
2500	47	52	52	54	28	27	35	39	36	41	35	30	34	42	40	42	36	34	36	34
3150	43	49	48	48	28	27	34	36	35	37	32	27	31	38	37	39	36	33	36	33
4000	37	46	46	51	30	30	33	35	35	37	32	27	31	36	34	36	34	33	34	33
5000	33	43	42	48	30	27	31	30	32	33	32	26	31	33	32	33	33	33	33	32
6300	32	38	36	42	31	27	32	28	32	31	32	27	32	32	32	32	32	33	32	32
8000	32	35	34	36	32	28	33	28	33	31	33	28	33	33	33	34	34	33	33	33
10000	30	32	31	32	34	30	35	30	34	31	35	30	30	35	35	35	35	35	35	35
OVERALL	74	76	75	75	66	68	70	71	72	75	71	71	69	71	73	71	76	70	70	70

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
7.3 1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-0T9-SBO																	
NOISE SOURCE/SUBJECT:		RUN 01																	
(OPERATION:		METEOROLOGY:																	
(FLIGHT IDLE(57.2X RPM)		TEMP = 15 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 70 X																	
(NSS MCCONNELL AFB		PAGE 3																	
FAR FIELD NOISE																			
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100'	110	120	130	140	150	160	170	180
25	71	68	68	66	64	65	65	65	68	68	67	66	66	66	67	66	66	64	68
31.5	77	75	70	70	65	61	62	68	73	70	68	71	71	71	70	69	69	73	72
40	75	77	73	71	59	60	62	64	68	68	69	69	67	66	64	67	69	69	69
50	70	69	70	66	62	62	63	65	68	67	63	65	63	64	65	64	67	68	68
63	76	73	69	70	64	65	67	64	69	66	61	65	64	63	63	63	65	67	67
80	63	62	73	71	59	58	60	60	66	59	58	63	59	60	60	58	60	64	64
100	60	60	76	75	60	56	58	60	64	59	59	61	58	58	57	60	57	61	61
125	61	60	69	66	60	55	56	57	61	57	55	59	56	55	55	62	56	57	57
160	59	59	63	62	58	53	52	56	60	53	50	55	50	51	52	53	51	52	52
200	61	65	65	64	56	53	49	56	63	54	49	52	50	48	47	50	50	50	50
250	57	57	58	58	54	52	47	53	59	48	44	48	47	46	44	49	49	46	46
315	57	54	55	57	52	52	46	50	58	47	44	47	48	47	45	47	47	47	47
400	56	54	56	60	51	51	47	48	58	48	46	48	50	48	46	47	46	46	46
500	53	52	55	55	49	53	44	46	57	47	44	45	50	47	44	45	47	47	45
630	53	54	55	55	44	47	44	43	54	46	47	45	47	47	46	46	47	47	46
800	52	53	54	55	39	37	43	43	50	45	46	43	44	45	45	45	45	47	45
1000	50	50	53	52	35	34	40	43	47	43	44	42	42	44	46	45	45	44	44
1250	49	50	53	53	33	34	42	44	47	44	44	42	40	43	46	43	44	44	43
1600	48	50	53	53	31	32	39	40	46	42	42	40	39	41	44	42	43	43	43
2000	48	48	51	52	30	31	38	38	45	42	40	38	35	38	41	40	40	40	40
2500	48	47	51	49	28	32	37	38	44	39	37	35	34	36	39	36	37	38	38
3150	45	44	48	47	30	33	36	36	41	36	35	33	33	35	37	34	33	33	35
4000	43	42	46	44	30	34	36	36	41	36	34	34	34	34	35	34	31	35	35
5000	41	41	43	41	30	35	36	36	41	36	35	35	35	35	35	35	30	35	35
6300	41	39	40	40	32	36	37	37	41	36	36	36	36	36	36	37	32	36	36
8000	39	39	39	40	33	38	38	38	43	38	38	38	38	38	38	38	33	38	38
10000	40	40	40	40	35	40	40	40	45	40	39	39	40	40	40	40	35	40	40
OVERALL	82	81	81	80	72	71	72	73	78	75	74	76	75	74	74	74	76	77	77

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-580																	
NOISE SOURCE/SUBJECT:		RUN 02																	
(OPERATION:		METEOROLOGY:																	
(INTND POWER (80.7% RPM)		TEMP = 15 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																	
(RUMUP IN THE A/F321-9		REL HUMID = 70 X																	
(NSS MCCONNELL AFB		PAGE 3																	
FREQ		**																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
25	88	85	81	79	76	79	80	80	79	81	79	79	77	77	80	74	78	80	
31.5	88	86	80	76	73	78	77	79	79	78	76	76	72	75	75	74	76	76	
40	83	83	78	74	68	71	74	79	75	75	75	72	70	71	72	75	70	71	
50	79	78	77	76	69	74	71	74	73	73	70	70	67	68	69	73	68	70	
63	80	76	74	70	69	73	72	71	73	72	70	68	66	67	68	70	65	68	
80	70	69	68	65	71	67	66	68	66	68	66	66	70	60	62	65	62	64	
100	67	66	66	62	65	67	63	64	63	63	63	63	59	56	59	60	59	59	
125	69	65	64	62	64	63	61	62	61	60	57	61	56	54	56	58	57	57	
160	62	62	62	61	58	59	57	59	58	57	52	56	53	50	52	56	56	53	
200	63	65	64	62	55	57	55	58	59	56	51	53	50	46	47	54	51	53	
250	58	58	58	58	54	54	49	56	54	48	47	44	45	44	45	45	45	45	
315	56	56	55	58	51	50	45	56	55	49	45	45	45	47	43	55	45	44	
400	59	57	56	62	49	48	47	54	54	56	51	46	46	48	47	54	47	46	
500	55	50	51	55	45	46	46	53	52	53	49	46	44	47	48	52	46	45	
630	55	50	50	55	43	46	45	51	50	51	51	47	43	47	49	50	46	45	
800	53	49	50	55	41	45	44	49	50	49	52	44	42	47	47	48	44	44	
1000	52	49	50	51	38	44	42	47	49	49	51	43	41	43	47	47	43	43	
1250	51	48	50	50	35	42	41	44	48	47	52	42	41	43	47	46	42	42	
1600	51	48	51	49	32	41	41	43	47	43	49	42	38	41	45	42	40	41	
2000	52	49	49	50	31	39	40	43	50	53	57	41	35	41	42	41	39	37	
2500	55	53	51	50	33	40	46	48	52	49	55	43	35	39	41	40	41	41	
3150	52	51	49	48	33	38	42	43	44	42	45	42	34	38	39	38	39	36	
4000	48	47	45	47	34	38	38	41	40	38	38	39	34	39	39	39	39	35	
5000	51	50	46	43	35	39	41	42	41	39	40	40	35	40	41	41	41	37	
6300	46	45	42	40	37	38	38	42	41	37	37	41	37	41	41	41	41	42	
8000	46	44	41	39	36	39	39	43	38	38	38	43	38	43	43	43	43	38	
10000	46	41	40	40	40	40	40	45	45	40	40	45	40	45	45	45	45	40	
OVERALL	92	90	88	84	82	81	83	85	84	84	84	82	80	80	82	81	81	82	

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																		
												IDENTIFICATION:						
7.4	DISTANCE = 100 METERS											OMEGA 1.5						
NOISE SOURCE/SUBJECT:												TEST DP-019-580						
(OPERATION:												RUN 05						
(BACKGROUND NOISE																		
(SINGLE ENGINE GROUND												TEMP = 15 C						
(RUNUP IN THE A/F32T-9												BAR PRESS = 0.760 M HG						
(MBS MCCONNELL AFB												REL HUMID = 70 %						
(FAR FIELD NOISE												PAGE 4						
												..						
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
												ANGLE (DEGREES)						
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DB) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DB) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	74	76	75	76	65	67	69	70	74	70	69	68	70	71	70	75	69	
OASLA	64	66	67	68	50	53	56	58	60	56	55	54	59	57	59	56	56	
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	54	59	59	61	38	41	46	48	47	51	47	43	44	50	49	51	47	46
ANNUNCIANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PH8B)																		
TONE CORRECTION (C IN DB)																		
PNLT	78	82	80	81	65	66	70	73	70	73	69	69	67	70	69	71	70	69
C	1	1	1	0	1	1	1	1	1	0	1	1	1	0	0	0	1	0
.. NO DATA COLLECTED.																		

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 62)																			
7.4 DISTANCE 100 METERS																			
NOISE SOURCE/SUBJECT	OPERATION:				METEOROLOGY:				IDENTIFICATION:										
T/41 ENGINE IN THE	(	FLIGHT IDLE(57.24 RPM)	(	TEMP	15 C	(	OMEGA	1.5	(	TEST BP-019-580	(
A/F32T-9 WSS	(	SINGLE ENGINE GROUND	(	BAR PRESS	0.760 M Hg	(	RUN	01	((
MCCONNELL AFB, KANSAS	(	RUNUP IN THE A/F32T-9	(	REL HUMID	70.2	(			(	11 MAR 67	(
FAR FIELD NOISE	(	WSS MCCONNELL AFB	(			(	PAGE	4	((
				ANGLE (DEGREES)	00														
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
HAZARD/PROTECTION																			
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																			
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																			
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 62)																			
NO PROTECTION																			
OASLC	80	79	80	79	70	69	71	71	76	73	72	74	72	72	72	72	72	74	74
OASLA	62	62	65	65	55	55	53	55	62	55	54	54	54	54	55	55	55	55	55
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																			
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																			
PSIL	54	54	56	57	41	43	45	46	52	47	46	45	45	46	47	46	46	46	46
ANNOYANCE																			
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHNB)																			
TONE CORRECTION (C IN DB)																			
PNLT	77	78	82	81	67	69	68	70	76	69	67	68	67	67	68	70	67	68	68
C	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0

** NO DATA COLLECTED.

7.4 MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)													IDENTIFICATION:						
DISTANCE : 100 METERS													OMEGA 1.5						
NOISE SOURCE/SUBJECT:													TEST DP-019-580						
(OPERATION:													RUN 02						
(INTND POWER (80.7X RPM)													METEOROLOGY:						
(SINGLE ENGINE GROUND													TEMP : 15 C						
(A/F32T-9 NSS													BAR PRESS : 0.760 M HG						
(MCCONNELL AFB, KANSAS													REL HUMID : 70 %						
(RUMUP IN THE A/F32T-9													PAGE 4						
(FAR FIELD NOISE																			
(NSS MCCONNELL AFB																			
HAZARD/PROTECTION																			
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																			
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																			
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																			
NO PROTECTION																			
OASLC	89	87	84	81	79	79	79	80	82	81	81	81	79	77	77	79	79	78	79
OASLA	66	64	63	64	56	58	57	60	61	61	61	63	56	54	56	57	59	55	55
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																			
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																			
PSIL	58	55	55	57	43	47	48	52	53	53	53	48	44	48	49	50	50	47	46
ANNOYANCE																			
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHNDB)																			
TONE CORRECTION (C IN DB)																			
PNLT	83	80	79	79	72	73	73	76	78	78	78	79	71	70	69	70	73	70	70
C	1	1	1	1	0	0	1	1	1	2	2	0	0	0	0	0	0	0	1

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)

7.4 DISTANCE : 100 METERS

NOISE SOURCE/SUBJECT : (OPERATION:) METEOROLOGY:) IDENTIFICATION:
 TF41 ENGINE IN THE (MILITARY PWR (96.3X RPM)) TEMP : 15 C) OMEGA 1.5
 A/F32T-9 NSS (SINGLE ENGINE GROUND) BAR PRESS : 0.760 M HG) RUN 03
 MCCONNELL AFB, KANSAS (RUMUP IN THE A/F32T-9) REL HUMID : 70 X) 11 MAR 87
 FAR FIELD NOISE (MSS MCCONNELL AFB)) PAGE 4

HAZARD/PROTECTION
 C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR
 A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR
 LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)

	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
OASLC	91	89	88	83	84	86	89	89	89	90	87	85	83	85	87	89	89	89	90
OASLA	72	71	70	66	59	66	69	71	72	72	68	63	63	66	68	71	69	70	70
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440

COMMUNICATION
 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)

	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
PSIL	64	64	62	59	48	55	59	62	64	64	60	54	54	58	60	63	61	62	62

ANNNOYANCE
 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHDB)
 TONE CORRECTION (C IN DB)

	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
PNLT	00	06	05	01	75	82	85	87	87	87	83	78	78	80	82	86	83	85	85
C	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1

** NO DATA COLLECTED

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:	
OCTAVE BAND	DISTANCE : 100 METERS		
7.5		OMEGA 1.5	
		TEST BP-019-SBO	
		RUN 05	
NOISE SOURCE/SUBJECT:		METEOROLOGY:	
(OPERATION:		TEMP : 15 C	
(BACKGROUND NOISE		BAR PRESS : 0.760 M HG	
(SINGLE ENGINE GROUND		REL HUMID : 70 %	
(RUMUP IN THE A/F32T-9			
(MCONNELL AFB, KANSAS			
(FAR FIELD NOISE			
(MSS MCCONNELL AFB			
PAGE 5			
FREQ		ANGLE (DEGREES)	
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180		
31.5	65 64 64 64 61 63 63 63 67 68 71 69 66 65 69 71 67		65
63	69 68 68 70 62 64 66 66 67 69 69 65 66 65 65 67 67		65
125	69 71 69 71 57 59 65 62 62 66 62 62 61 60 61 62 63		63
250	68 72 69 68 56 58 59 63 60 64 57 59 54 57 54 56		58
500	60 64 65 65 47 53 54 56 55 58 55 55 53 57 56 57		55
1000	57 62 63 64 39 43 49 52 52 54 51 48 48 55 53 53		49
2000	55 59 58 59 34 34 42 45 44 50 44 39 41 49 48 50		42
4000	44 51 51 56 34 33 37 39 39 41 37 31 36 41 39 41		38
8000	36 41 39 43 38 33 38 34 38 36 36 38 38 38 39 38		38
OVERALL	74 76 75 76 66 68 70 71 72 75 71 71 69 71 73 71		76

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-079-S80																		
NOISE SOURCE/SUBJECT:		RUN 01																		
TF41 ENGINE IN THE		11 MAR 87																		
A/F32T-9 MSS		PAGE 5																		
MCCONNELL AFB, KANSAS																				
FAR FIELD NOISE																				
FREQ																				
(HZ)		ANGLE (DEGREES)																		
		°°																		
31.5																				
63																				
125																				
250																				
500																				
1000																				
2000																				
4000																				
8000																				
OVERALL																				
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
80	79	75	74	68	67	68	71	75	74	73	74	73	73	72	72	72	72	72	75	75
77	75	76	75	67	68	69	68	73	70	66	69	67	68	68	67	67	67	67	70	71
65	64	77	76	64	60	61	63	67	62	61	64	61	60	60	65	65	65	60	62	62
64	66	66	66	59	57	53	59	66	56	51	55	53	52	50	54	54	55	53	55	53
59	58	60	62	54	56	50	51	61	52	51	51	54	52	50	51	51	52	51	52	51
55	56	58	58	41	40	47	48	53	49	50	47	47	49	50	49	49	49	50	49	49
53	53	57	57	34	36	43	43	50	46	45	43	41	44	47	45	45	45	46	46	46
48	47	51	50	35	39	41	41	46	41	39	39	39	40	41	39	41	39	37	40	40
45	44	44	44	38	43	43	43	48	43	43	43	43	43	43	43	43	43	38	43	43
82	81	81	80	72	71	72	73	78	75	74	76	75	74	74	74	74	74	76	76	77

NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5	TEST DP-OT9-SBO																
NOISE SOURCE/SUBJECT:		RUN 03																	
(MILITARY PWR (96.3X RPM)		15 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 70 %																	
(NSS MCCONNELL AFB		PAGE 5																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
31.5	92	90	89	85	86	87	89	90	89	90	88	87	83	87	89	91	90	91	90
63	88	85	84	77	78	82	85	85	86	86	84	80	79	81	83	85	84	85	84
125	78	78	76	68	70	77	80	80	77	78	75	72	71	73	72	76	77	75	77
250	69	69	69	65	60	70	70	74	71	73	65	65	61	64	63	66	69	69	69
500	66	66	65	65	53	61	63	67	71	69	64	58	60	64	66	70	65	67	67
1000	65	64	63	61	47	56	61	63	66	66	62	56	57	60	62	65	64	65	65
2000	65	64	63	58	45	54	59	62	63	63	59	54	53	56	58	61	59	61	59
4000	62	61	59	53	44	49	54	56	56	57	54	49	47	50	52	56	54	55	54
8000	54	52	52	49	48	50	49	53	49	54	49	49	48	49	49	53	50	53	53
OVERALL	94	91	90	86	87	88	91	92	91	92	90	88	85	88	90	92	91	92	91

** NO DATA COLLECTED.

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APPENDIX F
Far-Field Noise on the
J85-5 Engine

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TABLE 8.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
J85-5 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 12 March 1986

Time of Test: 1400

Engine Operation

Idle	49.0 %RPM
Military Power	100 %RPM
Afterburner Power	100 %RPM

Meteorology

Temperature	12 Deg C
Bar Pressure	0.712 M Hg
Rel Humidity	90 %
Wind - Speed	8 - 14 Knots (Gusts to 17)
- Direction	290 Deg (True)

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-079-600																		
NOISE SOURCE/SUBJECT:		RUN 05																		
J85-5(GP) ENGINE		METEOROLOGY:																		
IN THE A/F32T-9 N55		TEMP = 12 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.712 H HG																		
FAR FIELD NOISE		REL HUMID = 90 X																		
		PAGE 2																		
FREQ (HZ)		ANGLE (DEGREES)																		
		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	76	81	80	80	79	63	70	78	79	82	77	72	80	79	80	80	77	75	76	
4	88	87	89	87	68	74	77	80	74	72	77	78	77	78	77	80	75	73	75	
5	81	84	83	80	62	70	77	79	81	78	71	80	76	79	79	77	77	73	76	
6.3	74	77	83	79	62	69	76	77	81	75	70	79	75	78	78	77	77	70	73	
8	72	76	80	78	55	65	74	73	81	74	69	75	74	76	79	76	71	72		
10	73	75	78	78	58	67	69	73	80	71	65	74	76	79	77	72	72	67	72	
12.5	74	75	79	80	61	64	68	73	78	70	66	71	75	78	77	70	70	66	69	
16	73	75	78	78	54	62	67	72	76	69	64	69	71	75	75	70	65	68		
20	76	77	78	78	57	59	67	70	73	67	63	68	67	71	68	65	63	69		
25	76	76	78	78	56	58	64	66	71	66	62	68	67	71	68	65	63	64		
31.5	74	75	76	76	60	59	64	66	73	67	63	68	67	70	68	66	63	64		
40	72	74	74	76	65	58	63	66	70	67	61	71	66	68	67	65	64	66		
50	69	71	72	75	66	58	65	66	69	67	60	77	67	69	69	65	65	67		
63	68	67	69	74	70	64	58	64	65	63	62	78	64	66	67	64	68	67		
80	65	64	66	77	76	59	59	63	64	62	62	80	63	64	64	64	69	63		
100	65	63	67	78	73	58	58	65	64	66	62	81	59	62	62	64	74	67		
125	63	64	66	77	65	58	57	65	64	64	65	81	57	59	61	63	69	65		
160	62	61	64	75	64	55	63	70	67	67	61	79	54	55	60	59	64	62		
200	61	60	62	74	57	56	52	66	63	63	58	78	51	53	60	58	63	59		
250	58	57	59	76	56	50	60	66	61	59	55	80	50	54	61	59	65	58		
315	59	57	60	79	51	51	54	64	60	57	56	81	54	56	61	61	66	61		
400	58	58	60	78	47	51	61	66	63	60	58	81	57	60	63	64	66	64		
500	55	57	57	79	44	48	57	66	66	55	60	78	56	60	63	63	66	57		
630	55	55	57	79	42	47	58	67	72	57	62	76	57	59	62	62	66	58		
800	55	55	56	76	41	48	56	68	74	59	63	75	58	59	62	62	64	56		
1000	55	54	55	74	39	46	54	68	72	57	62	72	58	58	61	61	63	56		
1250	53	52	54	72	36	46	51	64	70	57	64	70	59	61	66	64	62	56		
1600	53	51	54	68	34	43	48	61	68	56	62	68	59	60	64	62	60	53		
2000	51	48	52	63	34	40	46	54	64	55	60	64	59	60	61	60	59	51		
2500	48	46	48	58	34	39	45	50	59	54	60	61	59	60	62	61	60	52		
3150	46	46	46	51	32	38	44	46	53	53	59	56	58	59	60	59	58	50		
4000	44	44	44	47	30	37	44	45	48	51	55	50	56	56	57	57	57	50		
5000	41	40	41	45	29	35	43	43	45	49	51	44	51	51	51	51	52	46		
6300				41	29	34	41	42	43	44	44	44	44	44	44	44	45	46	43	
8000				40	30	34	41	41	43	42	37	38	39	40	39	41	42	43		
10000				30	34	38	39	39	42	41	34	38	35	37	35	39	37	40		
OVERALL	90	91	92	93	80	79	84	87	90	84	80	92	86	88	88	85	83	83		

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)										IDENTIFICATION:										
1/3 OCTAVE BAND										OMEGA 1.5										
DISTANCE = 100 METERS										TEST DP-019-600										
NOISE SOURCE/SUBJECT:										METEOROLOGY:										
(OPERATION:										TEMP = 12 C										
(FLIGHT IDLE(49X RPM)										BAR PRESS = 0.712 M HG										
(SINGLE ENGINE GROUND										REL HUMID = 90 X										
(IN THE A/F321-9										PAGE 2										
(MCCONNELL AFB, KANSAS																				
(RUNUP IN THE A/F321-9																				
(FAR FIELD NOISE																				
(NSS MCCONNELL AFB																				
										**										
FREQ	ANGLE (DEGREES)																			
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15	68	67	70	69	63	63	72	69	70	70	68	66	70	72	65	71	64	63		
4	68	71	70	66	68	70	70	70	71	71	68	66	71	72	69	69	67	68		
5	64	66	67	66	63	63	69	67	67	72	66	64	67	68	65	66	64	65		
6.3	63	66	66	64	60	62	68	70	67	68	65	62	66	65	65	64	64	62		
8	63	65	65	61	56	59	68	66	66	66	62	59	63	62	64	64	64	63		
10	58	61	62	58	57	58	63	64	65	66	60	59	60	59	60	62	61	60		
12.5	57	61	61	58	55	57	63	61	63	65	60	58	60	59	58	58	59	59		
16	56	58	63	60	55	56	63	60	63	61	60	56	59	57	58	59	59	59		
20	61	61	62	61	57	56	61	59	61	60	58	57	58	59	58	57	59	58		
25	59	58	60	60	58	57	60	58	62	62	60	58	60	59	59	59	59	58		
31.5	61	60	60	60	58	55	62	58	62	61	60	59	62	58	57	57	58	60		
40	61	60	62	60	59	53	61	54	61	59	59	60	63	57	58	57	59	59		
50	63	62	65	61	60	56	60	55	62	61	58	59	66	58	66	54	56	60		
63	64	61	62	62	59	56	59	54	58	61	57	57	63	57	59	58	53	62		
80	63	63	63	63	66	52	54	55	59	61	57	54	61	63	57	56	52	64		
100	65	64	67	65	64	52	52	55	54	58	58	52	58	60	59	52	52	61		
125	70	69	71	70	58	51	52	54	53	58	56	59	54	60	56	49	55	60		
160	72	73	71	74	54	50	52	58	50	57	57	54	50	55	55	46	50	56		
200	71	72	69	73	50	48	48	48	48	58	51	51	46	49	51	45	48	50		
250	66	66	65	73	46	43	44	44	44	44	47	45	46	48	47	45	44	45		
315	63	62	64	68	47	44	44	44	44	44	45	45	47	44	46	47	45	43		
400	64	61	63	67	47	45	46	45	48	47	47	43	43	49	47	46	47	45		
500	59	58	57	60	46	43	44	44	47	47	39	40	47	46	45	44	44	42		
630	63	62	60	66	46	44	45	45	50	45	40	39	48	47	47	49	46	47		
800	60	60	61	65	45	42	42	42	48	43	39	38	47	47	49	46	47			
1000	62	62	64	66	43	42	42	42	48	40	39	39	45	47	49	45	45	44		
1250	62	62	64	64	41	41	43	49	48	40	38	37	44	46	50	43	42	43		
1600	60	59	59	61	40	40	41	47	45	39	39	37	44	45	50	46	41	41		
2000	59	60	60	62	39	37	47	44	44	37	41	36	42	44	50	42	40	40		
2500	58	60	60	62	38	36	42	43	43	37	38	36	42	43	49	41	40	39		
3150	58	61	62	63	38	37	37	42	43	37	35	34	40	42	45	40	39	37		
4000	61	63	62	65	38	39	49	45	46	40	36	36	39	40	43	39	38	37		
5000	60	63	62	67	35	36	45	42	43	42	37	37	37	37	42	38	38	37		
6300	58	61	60	67	35	34	33	38	39	33	31	35	36	37	39	34	34	33		
8000	61	62	63	69	35	35	37	40	38	33	32	36	37	37	38	33	33	32		
10000	55	56	57	64	35	35	34	38	34	33	33	37	38	38	38	33	33	33		
OVERALL	80	80	80	82	74	73	78	77	77	78	75	73	77	77	75	76	73	75		

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE		MEASURED SOUND PRESSURE LEVEL (DB)																IDENTIFICATION:					
8.2		1/3 OCTAVE BAND																OMEGA 1.5					
		DISTANCE = 100 METERS																TEST DP-019-600					
NOISE SOURCE/SUBJECT:		OPERATION:																MUN 03					
J85-SIGP) ENGINE		MILITARY PWR (99X RPM)																					
IN THE A/F321-9 NSS		SINGLE ENGINE GROUND																03 MAR 67					
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F321-9																					
FAR FIELD NOISE		NSS MCCONNELL AFB																PAGE 2					
FREQ		ANGLE (DEGREES)																**					
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180			
3.15	67	65	63	70	63	70	63	70	71	69	68	75	71	66	72	70	73	73	73	66	68		
4	71	72	68	74	70	71	74	71	74	71	70	74	70	71	73	73	76	76	76	72	69		
5	66	65	69	69	71	73	69	70	73	67	69	68	69	68	70	72	73	73	73	69	67		
6.3	75	74	75	70	66	72	72	74	72	75	65	66	71	70	71	74	71	74	74	72	71		
8	78	79	76	73	69	69	74	75	74	74	70	69	70	69	70	72	71	79	75	75	76		
10	77	77	79	77	74	71	72	74	72	76	74	70	69	70	69	71	70	75	71	71	71		
12.5	73	71	73	72	74	73	73	72	71	75	70	72	72	71	73	74	74	74	72	73	73		
16	74	73	70	70	73	75	74	74	72	75	71	74	76	77	77	76	75	75	75	76	76		
20	76	73	72	70	75	72	73	73	75	75	73	75	71	72	74	74	69	75	75	75	75		
25	84	82	81	77	74	74	74	76	75	76	76	73	73	73	73	75	70	73	73	73	71		
31.5	86	83	78	74	71	71	72	75	73	74	74	71	69	70	69	70	69	70	73	71	71		
40	83	83	78	73	65	69	73	74	71	70	74	70	68	67	67	70	68	67	67	67	67		
50	81	79	78	74	64	68	72	73	72	71	70	70	69	69	69	69	67	66	68	69	69		
63	81	77	76	70	65	70	71	70	74	66	70	65	63	64	67	69	65	65	66	65	66		
80	73	71	71	68	61	67	65	67	67	64	63	62	57	61	61	62	61	62	61	61	61		
100	71	69	69	67	59	60	63	62	65	60	58	57	54	59	57	58	57	58	61	61	61		
125	74	72	70	70	57	61	65	61	66	58	58	55	53	54	56	57	56	57	60	63	63		
160	73	71	70	73	56	58	60	60	62	55	54	52	49	52	53	53	53	56	56	56	56		
200	70	70	68	71	53	56	59	57	59	54	51	49	47	50	51	52	51	52	54	53	53		
250	67	67	66	71	50	57	57	55	59	56	51	47	48	49	49	52	52	52	57	52	52		
315	67	67	66	69	51	57	57	58	61	58	56	50	50	52	52	60	60	60	61	61	61		
400	68	68	68	69	52	58	61	63	66	58	59	54	54	55	55	64	64	61	56	56	56		
500	68	65	67	65	52	59	62	66	68	61	61	53	54	55	55	63	62	59	62	59	59		
630	71	68	69	68	51	56	61	64	64	58	58	50	53	54	55	62	63	65	61	61	61		
800	69	67	69	67	49	55	59	63	62	58	57	50	52	52	53	64	64	66	60	60	60		
1000	68	68	69	68	46	54	58	61	62	59	57	50	50	51	53	63	63	65	59	59	59		
1250	67	67	67	65	44	52	57	60	61	59	57	49	48	51	52	64	64	65	55	55	55		
1600	66	64	64	63	43	50	54	57	57	53	51	46	46	48	50	62	62	64	53	53	53		
2000	65	65	64	63	44	51	55	58	59	56	54	51	47	48	49	61	61	64	53	53	53		
2500	65	64	64	62	41	50	55	57	59	54	53	53	45	47	48	60	60	62	52	52	52		
3150	64	64	64	63	41	47	54	55	56	50	50	43	45	45	45	58	60	50	50	50	50		
4000	63	64	64	64	38	45	51	51	51	47	45	42	41	43	43	54	54	57	47	47	47		
5000	63	65	64	66	35	42	48	48	48	45	43	39	39	41	41	49	52	43	43	43	43		
6300	61	63	63	65	33	40	45	44	45	41	40	35	37	38	38	43	43	45	40	40	40		
8000	62	64	65	68	34	39	43	41	43	40	39	34	37	37	37	39	39	40	38	38	38		
10000	56	58	59	62	34	38	40	39	40	38	38	33	30	30	38	38	38	38	38	38	38		
OVERALL	92	90	88	86	83	83	83	85	85	86	84	82	83	83	84	85	84	85	84	84	84		

NO BACKGROUND CORRECTION APPLIED.

** NO DATA COLLECTED.

TABLE		MEASURED SOUND PRESSURE LEVEL (DB)										IDENTIFICATION:									
8.2		1/3 OCTAVE BAND										DME GA 1.5									
		DISTANCE : 100 METERS										TEST DP-019-600									
												RUN 04									
NOISE SOURCE/SUBJECT:		OPERATION:										METEOROLOGY:									
J85-SLOP ENGINE		AFTERBURNER PWR(100X RPM)										TEMP 12 C									
IN THE A/F321-9 NSS		SINGLE ENGINE GROUND										BAR PRESS : 0.712 M HG									
MCCONNELL AFB-KANSAS		RUNUP IN THE A/F321-9										REL HUMID : 90 X									
FAR FIELD NOISE		NSS MCCONNELL AFB										PAGE 2									
FREQ		ANGLE (DEGREES)										°°									
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15	69	72	74	77	69	67	69	77	74	75	70	66	80	79	80	73	69	72			
4	75	73	77	75	71	72	69	75	73	74	72	71	79	77	78	79	70	73			
5	74	72	73	73	70	72	69	76	72	73	71	68	76	78	77	74	69	72			
6.3	75	75	77	75	67	72	73	75	75	73	68	70	78	78	76	79	77	76			
8	81	83	81	78	67	72	72	77	74	72	73	71	77	79	79	82	79	80			
10	84	84	84	81	65	79	71	76	73	72	76	74	76	79	76	81	79	77			
12.5	78	76	80	78	65	76	72	73	72	72	76	76	77	78	80	80	80	79			
16	78	77	74	75	63	79	74	74	72	71	79	81	79	81	81	81	80	82			
20	79	77	76	74	63	79	74	73	75	73	77	76	77	79	78	75	79	79			
25	87	84	82	78	64	79	76	76	75	77	81	78	77	78	79	75	78	80			
31.5	90	86	82	76	66	77	74	73	73	75	80	75	75	77	74	80	78	77			
40	87	87	83	77	65	73	73	74	71	77	80	73	73	76	74	79	72	72			
50	86	83	84	84	76	74	74	74	78	76	71	75	75	74	78	75	73	76			
63	87	82	81	81	72	76	73	75	78	69	74	73	72	74	73	76	73	74			
80	79	79	79	76	66	66	70	76	71	65	72	70	65	71	67	70	68	69			
100	74	77	78	74	68	64	68	64	73	72	69	66	64	65	62	70	63	66			
125	76	77	77	74	65	67	73	69	68	64	64	63	59	72	66	63	65	65			
160	74	74	75	72	70	63	74	67	64	61	63	62	54	75	68	61	60	61			
200	71	72	75	71	67	63	73	65	63	63	66	59	54	77	69	61	58	60			
250	66	68	71	69	65	64	71	65	67	64	67	64	57	75	64	61	55	55			
315	67	70	72	68	67	64	72	65	67	66	67	66	67	59	60	71	59	63			
400	67	70	72	69	64	63	70	68	71	68	68	62	63	67	61	63	58	59			
500	70	71	73	68	65	66	72	71	74	66	69	63	60	68	62	64	61	62			
630	68	70	71	67	65	62	73	68	71	66	68	64	58	67	61	62	62	62			
800	68	70	70	65	64	61	77	66	70	65	69	58	58	65	61	62	62	60			
1000	69	71	71	66	62	59	79	65	68	64	67	58	57	64	61	63	61	59			
1250	67	79	81	63	59	57	75	63	67	63	66	57	60	67	68	67	64	63			
1600	65	76	77	62	57	52	73	60	64	60	63	52	58	64	64	63	62	60			
2000	65	75	79	62	56	57	71	67	63	61	60	55	56	62	62	62	60	58			
2500	64	75	81	60	53	51	67	61	61	58	57	55	56	63	64	63	62	59			
3150	61	73	78	59	48	47	61	57	59	55	54	54	54	61	60	60	59	56			
4000	59	71	77	56	44	43	54	53	54	50	49	47	51	57	57	57	56	53			
5000	57	67	72	56	40	41	48	51	53	49	48	45	48	52	51	51	50	48			
6300	55	60	64	55	38	45	48	49	46	44	43	44	46	44	44	45	44	43			
8000	53	55	58	59	38	45	47	49	45	44	43	41	44	43	43	43	43	43			
10000			50	53	38	43	45	46	44	43	43	39	43	43	43	43	43	43			
OVERALL	96	94	94	90	82	88	88	88	87	86	89	87	88	91	90	90	89	89			

NO BACKGROUND CORRECTION APPLIED
 ** NO DATA COLLECTED

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1 5																	
DISTANCE : 100 METERS		TEST DP-079-600																	
NOISE SOURCE/SUBJECT		RUN 05																	
JOS-510P) ENGINE		METEOROLOGY																	
IN THE A/F32T-9 MSS		TEMP 15 C																	
MCCONNELL AFB, KANSAS		BAR PRESS 0 760 M HG																	
FAR FIELD NOISE		REL HUMID 70 X																	
		PAGE 3																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
									ANGLE (DEGREES)										
3 15	77	82	81	79	63	70	78	79	83	77	72	80	80	80	80	78	75	75	76
4	88	87	89	87	68	74	77	80	81	75	72	78	78	77	80	76	74	74	76
5	81	84	83	80	62	70	77	79	81	78	71	80	76	79	79	77	73	73	76
6 3	74	77	83	79	62	69	76	77	81	75	70	79	76	78	78	78	70	73	73
8	73	76	81	78	56	65	74	73	81	74	69	75	74	77	80	77	71	72	71
10	73	75	78	78	58	67	69	74	80	71	66	74	77	79	77	73	68	73	73
12.5	74	76	80	80	61	64	68	73	78	70	66	71	76	79	78	71	66	69	69
16	73	75	78	78	55	62	67	72	76	69	64	69	72	76	76	70	65	69	69
20	76	77	78	78	58	59	68	70	73	68	63	67	68	72	71	68	65	69	69
25	76	76	78	78	56	58	64	66	72	66	62	68	68	71	69	66	63	63	64
31.5	74	75	77	77	60	59	64	67	73	67	63	68	67	71	68	66	63	63	64
40	72	75	74	77	65	58	63	66	70	68	62	71	66	69	68	65	64	66	66
50	69	71	72	75	66	58	65	66	69	67	60	77	67	69	69	66	64	68	68
63	68	67	69	74	70	64	59	64	65	63	62	78	64	67	67	64	68	67	67
80	65	64	66	77	76	59	59	64	65	62	62	80	63	65	64	65	69	63	63
100	65	64	67	78	73	58	58	66	64	67	62	81	59	62	62	64	75	67	67
125	63	64	66	77	65	58	57	65	64	64	65	81	57	59	61	63	69	65	65
160	62	62	64	75	64	55	63	70	67	67	61	80	54	55	60	59	64	63	63
200	61	60	62	74	57	56	62	66	63	63	59	78	52	53	61	58	63	59	59
250	58	57	59	76	56	50	60	66	61	60	56	80	51	54	61	60	66	59	66
315	59	57	60	80	51	51	55	65	60	57	56	81	54	57	62	61	67	61	67
400	59	58	60	78	47	52	62	66	63	60	58	81	57	61	64	65	66	64	64
500	56	57	57	79	44	49	58	66	66	56	60	78	56	60	63	63	67	57	67
630	55	55	57	79	42	47	58	67	72	57	62	76	57	59	62	62	66	58	66
800	55	55	57	77	41	48	56	69	74	59	63	75	59	59	63	62	65	56	65
1000	55	54	56	74	39	46	54	68	72	57	63	72	58	58	62	61	63	56	63
1250	53	52	54	72	37	46	51	64	71	57	65	71	59	61	66	64	62	56	62
1600	53	51	54	69	34	43	49	61	68	56	62	69	59	61	64	62	60	54	60
2000	51	48	53	64	34	41	46	54	64	55	61	65	60	60	62	60	60	51	60
2500	48	47	49	58	34	39	45	50	59	54	60	61	59	60	62	61	60	52	60
3150	46	46	46	51	32	38	44	46	53	53	59	56	58	59	60	59	58	50	59
4000	44	44	44	47	30	37	44	45	48	51	55	50	56	56	57	57	57	50	50
5000	40	39	40	44	29	35	43	43	45	49	51	44	51	51	51	51	51	52	46
6300				41	29	34	41	41	43	44	43	39	44	44	44	44	44	46	43
8000				39	29	34	40	41	43	42	36	38	39	40	38	40	42	42	42
10000				29	29	34	37	38	41	40	33	38	35	36	34	38	37	39	39
OVERALL	90	91	93	93	80	79	84	87	90	84	80	92	86	88	88	85	83	84	84

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-079-600																		
NOISE SOURCE/SUBJECT:		RUN 01																		
J85-5(GP) ENGINE		METEOROLOGY:																		
IN THE A/F32T-9 MSS		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
FAR FIELD NOISE		REL HUMID = 70 %																		
		PAGE 3																		
		°°																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15	68	67	70	70	63	63	72	69	71	70	69	66	70	72	65	71	65	71	64	64
4	68	71	70	66	69	70	71	71	71	71	71	68	66	71	72	69	69	68	68	68
5	65	66	67	66	63	63	69	67	67	72	66	64	67	68	65	66	66	64	64	65
6.3	63	66	66	64	60	63	68	70	67	68	65	62	67	66	65	64	64	64	64	62
8	64	66	65	61	56	59	68	66	67	67	62	60	63	63	64	64	64	64	63	63
10	59	62	62	59	57	58	63	64	65	66	60	60	61	59	60	62	61	61	61	61
12.5	57	62	61	58	55	57	63	61	63	65	60	58	61	60	58	58	58	59	59	60
16	56	58	63	60	55	56	63	61	63	61	60	56	59	58	59	59	60	59	59	59
20	62	61	63	61	57	56	61	59	62	60	59	57	59	58	58	57	59	58	58	58
25	59	58	60	60	58	57	61	58	62	62	60	58	60	59	59	59	59	58	58	58
31.5	61	60	60	61	58	55	62	58	62	62	60	59	63	59	57	57	57	58	58	60
40	61	60	62	60	59	54	61	54	61	60	59	61	63	58	59	57	57	59	59	60
50	63	62	66	61	60	56	60	55	62	61	58	60	66	58	66	54	54	56	60	60
63	64	61	62	62	59	56	59	55	59	62	57	57	63	57	59	58	53	53	63	63
80	63	63	63	63	66	62	55	55	59	61	57	54	61	63	58	57	57	53	63	64
100	65	64	67	65	64	52	53	55	54	58	58	52	58	60	59	52	52	61	61	61
125	70	70	71	70	58	51	52	54	53	58	56	59	54	60	56	49	45	55	60	60
160	72	73	72	74	54	50	52	59	51	58	57	55	50	55	55	47	47	50	56	56
200	72	72	69	73	50	48	49	57	49	58	52	51	46	49	51	45	45	48	50	50
250	67	67	65	73	46	43	45	52	45	56	48	48	45	47	50	44	44	45	45	45
315	63	62	64	68	47	45	44	53	46	53	46	45	47	45	46	47	45	45	44	44
400	64	61	63	67	47	46	46	56	48	50	43	43	49	47	46	47	46	47	47	45
500	60	58	57	60	46	44	44	55	47	47	39	40	47	46	45	45	45	44	43	43
630	63	62	60	66	46	44	45	55	50	45	40	39	48	47	47	49	46	47	46	47
800	61	61	61	66	45	42	43	54	48	43	40	39	48	48	47	49	46	47	46	47
1000	62	63	64	64	43	42	42	52	48	40	40	39	45	47	49	46	45	44	44	44
1250	62	62	64	64	41	42	43	49	48	40	38	37	44	47	50	43	42	43	42	43
1600	60	59	60	61	41	40	41	47	46	39	40	37	44	46	50	46	42	42	42	42
2000	59	60	60	62	39	37	47	45	44	38	41	37	42	44	50	42	40	40	40	40
2500	58	61	61	62	38	36	42	43	37	38	36	36	42	43	49	41	40	39	37	37
3150	59	62	62	63	38	37	37	42	43	37	35	34	40	42	45	40	39	37	37	37
4000	61	63	62	65	38	39	49	45	46	40	36	36	39	40	43	39	38	37	37	37
5000	60	63	62	67	35	36	45	42	43	42	37	37	37	38	42	38	38	37	37	37
6300	58	61	60	67	34	34	33	38	39	33	31	35	35	37	38	34	34	33	33	33
8000	60	62	62	68	35	35	37	39	38	32	31	36	36	36	37	33	33	32	32	32
10000	54	56	56	63	35	34	34	37	33	33	32	37	37	37	37	32	32	32	32	32
OVERALL	80	81	81	82	74	73	78	77	78	79	75	73	77	77	75	76	74	75	74	75

°° NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-019-600																		
NOISE SOURCE/SUBJECT:		OPERATION:																		
J85-SIGP ENGINE		MILITARY PMR (99X RPM)																		
IN THE A/F327-9 MSS		SINGLE ENGINE GROUND																		
MCCONNELL AFB, KANSAS		RUMUP IN THE A/F327-9																		
FAR FIELD NOISE		MSS MCCONNELL AFB																		
		METEOROLOGY:																		
		TEMP : 15 C																		
		BAR PRESS : 0.760 M HG																		
		REL HUMID : 70 X																		
		PAGE 3																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
ANGLE (DEGREES)																				
3.15	67	65	64	70	63	70	71	69	68	75	71	66	72	70	74	73	76	72	68	
4	71	72	69	74	71	71	74	72	70	74	71	71	74	73	76	76	72	70	70	
5	66	66	65	69	69	71	73	69	70	73	67	69	68	70	72	73	76	73	69	
6.3	75	74	75	70	66	72	73	74	72	75	65	67	71	70	71	74	74	72	71	
8	78	80	77	74	69	69	75	76	74	75	71	69	70	72	72	79	76	76	76	
10	77	78	79	77	74	71	72	74	72	76	74	71	69	71	71	75	71	71	71	
12.5	73	72	73	72	74	73	73	72	71	75	70	72	72	71	73	75	75	72	73	
16	74	73	70	70	73	76	75	74	72	76	72	74	76	77	77	76	75	75	76	
20	77	73	73	71	75	73	73	73	75	75	75	71	72	74	74	70	75	75	76	
25	84	82	81	77	75	74	74	77	75	76	76	74	73	73	76	70	73	73	76	
31.5	86	83	78	74	71	71	72	75	73	75	75	71	69	71	69	70	74	74	71	
40	83	84	78	74	66	68	73	74	72	70	74	71	68	68	67	71	68	67	67	
50	81	79	78	74	64	68	73	73	73	71	70	70	69	69	66	66	68	69	69	
63	81	77	76	70	65	70	71	70	74	66	70	65	63	64	67	69	65	65	66	
80	74	72	72	68	61	68	65	68	67	64	63	62	57	61	61	62	62	62	61	
100	71	69	70	68	59	60	64	62	66	61	58	57	55	59	58	58	58	61	61	
125	74	72	70	71	57	61	65	61	66	59	58	55	53	54	56	57	60	60	63	
150	73	71	70	73	56	59	60	60	62	55	54	52	49	52	54	53	57	57	57	
200	71	70	68	72	53	57	60	58	59	55	52	50	47	50	51	52	54	54	54	
250	67	67	66	71	50	57	57	55	59	56	51	48	48	49	49	53	51	50	50	
315	67	67	67	70	52	57	57	58	61	58	57	51	51	52	52	60	58	58	52	
400	68	68	68	69	52	59	62	63	67	58	60	54	55	56	55	64	61	56	56	
500	68	65	68	65	52	60	62	67	68	61	62	54	54	56	55	63	62	59	59	
630	71	68	69	68	51	56	61	64	64	58	58	50	53	54	55	63	65	61	61	
800	70	68	69	67	49	55	59	63	62	58	57	50	52	53	53	64	66	60	60	
1000	68	69	69	68	46	54	58	61	62	59	57	50	50	52	53	63	64	65	59	
1250	67	67	67	65	44	52	57	60	61	59	57	49	48	51	52	64	66	55	55	
1600	66	64	65	63	44	51	54	57	58	54	51	46	46	49	50	63	65	53	53	
2000	65	65	64	63	44	51	56	58	59	57	54	51	47	48	49	61	64	53	53	
2500	65	64	64	62	41	50	56	57	59	55	53	53	45	47	48	60	62	52	52	
3150	64	65	64	63	41	47	54	55	56	50	50	50	43	45	45	58	60	50	50	
4000	63	64	64	64	38	45	51	51	51	47	45	42	41	43	43	54	57	47	47	
5000	63	65	64	66	35	42	48	48	48	44	43	39	39	41	41	49	52	43	43	
6300	61	62	63	65	33	39	44	44	45	41	40	34	37	38	38	43	45	39	39	
8000	61	63	64	67	33	38	42	41	43	39	38	33	36	37	37	39	40	37	37	
10000	55	57	58	62	33	38	39	39	39	38	37	33	37	37	37	37	37	37	37	
OVERALL	92	90	89	87	83	84	85	85	85	86	84	82	83	83	85	86	84	84	84	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
8.3 1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-600																	
NOISE SOURCE/SUBJECT:		RUN 04																	
(J85-5(OP) ENGINE		METEOROLOGY:																	
(IN THE A/F32T-9 NSS		TEMP = 15 C																	
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																	
(FAR FIELD NOISE		REL HUMID = 70 X																	
		PAGE 3																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	70	73	74	77	70	67	69	78	74	75	70	67	80	79	80	74	69	72	
4	75	74	77	76	72	72	69	75	74	74	72	71	79	77	79	79	71	73	
5	74	72	74	73	70	72	69	76	72	73	71	68	76	78	77	74	69	72	
6.3	75	75	77	75	67	72	73	76	75	73	68	70	78	78	76	80	77	76	
8	82	83	81	78	67	72	73	77	74	73	73	71	77	79	80	83	79	81	
10	85	84	84	81	65	79	72	76	74	72	77	74	76	80	77	82	80	77	
12.5	78	76	80	78	66	76	72	73	72	73	76	76	77	78	80	80	81	79	
16	78	77	74	75	64	79	74	75	72	71	79	82	79	82	82	80	80	82	
20	79	77	76	74	64	79	75	74	76	74	77	76	78	79	78	75	79	79	
25	87	84	82	78	65	79	76	77	75	77	82	79	77	79	79	75	78	80	
31.5	90	87	82	76	66	77	74	73	74	75	80	76	76	77	74	80	78	78	
40	87	87	84	78	66	73	73	74	71	77	80	74	73	76	74	79	72	73	
50	87	83	84	84	77	74	74	79	77	71	75	75	74	78	75	73	76	77	
63	88	82	81	81	72	76	73	75	78	69	75	73	72	74	74	76	73	74	
80	79	79	79	77	67	67	70	76	71	66	72	70	65	71	67	71	69	69	
100	74	77	78	74	68	64	73	72	69	66	65	65	62	70	63	65	66	66	
125	76	78	77	75	65	67	74	69	68	64	64	64	59	72	66	63	65	65	
160	75	74	75	72	70	63	74	67	62	66	62	66	62	54	75	68	61	61	
200	71	72	75	71	67	63	73	65	65	63	66	59	54	77	69	61	58	60	
250	66	68	71	69	65	64	71	65	67	65	67	56	57	75	64	61	55	56	
315	67	70	72	68	68	64	72	65	67	66	67	59	60	72	59	63	57	57	
400	67	70	72	69	64	65	71	68	71	68	68	62	63	67	61	64	58	60	
500	70	71	73	69	65	66	72	72	74	67	69	63	60	68	62	64	61	62	
630	68	70	71	67	66	62	74	68	72	66	68	64	59	67	61	62	62	62	
800	68	71	71	66	64	61	77	66	70	65	69	58	58	65	61	62	63	60	
1000	69	71	72	66	63	59	79	65	68	64	67	58	58	64	62	63	61	60	
1250	67	79	81	64	60	57	75	64	67	63	66	57	61	67	68	67	64	63	
1600	65	76	77	62	57	52	73	60	64	60	63	52	58	64	64	64	62	60	
2000	65	75	79	62	56	57	71	67	63	61	60	55	56	62	62	60	58	58	
2500	65	75	82	60	53	52	67	61	61	58	58	55	57	63	64	63	62	59	
3150	62	73	78	59	48	47	61	57	59	55	54	54	54	61	60	60	59	56	
4000	59	71	77	56	44	43	54	53	54	50	49	47	51	57	57	57	56	53	
5000	57	67	72	56	40	41	48	51	52	49	47	45	48	52	51	51	50	48	
6300	55	60	64	55	38	45	48	49	46	44	43	44	46	44	44	44	44	43	
8000	52	54	58	58	37	44	46	49	45	43	42	41	44	42	42	42	42	42	
10000	49	52	52	37	37	43	44	45	45	43	42	42	38	43	42	42	42	42	
OVERALL	96	94	94	91	83	88	88	88	87	86	89	87	89	91	90	91	89	89	

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																				
8.4 DISTANCE : 100 METERS												IDENTIFICATION:								
NOISE SOURCE/SUBJECT:												OMEGA 1.5								
(OPERATION:												TEST DP-019-600								
(BACKGROUND NOISE												RUN 05								
(SINGLE ENGINE GROUND												TEMP : 15 C								
(RUNUP IN THE A/F327-9												BAR PRESS : 0.760 M HG								
(MSS MCCONNELL AFB												REL HUMID : 70 X								
(FAR FIELD NOISE												PAGE 4								
												°°								
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
HAZARD/PROTECTION																				
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																				
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																				
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																				
NO PROTECTION																				
OASLC	79	80	81	89	79	69	73	79	82	76	75	90	75	78	78	76			80	76
OASLA	64	64	66	84	60	57	64	74	79	67	72	83	69	70	73	72			73	67
T	1440	1440	1440	480	1440	1440	1440	1440	1142	1440	1440	571	1440	1440	1440	1440			1440	1440
COMMUNICATION																				
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																				
PSIL	56	56	57	72	42	48	56	64	69	60	65	72	62	64	67	66			66	59
ANNOYANCE																				
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																				
TONE CORRECTION (C IN DB)																				
PNLT	76	76	78	94	75	70	78	85	88	81	84	95	82	83	87	85			87	81
C	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0			1	1

°° NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)													IDENTIFICATION:					
8.4													OMEGA 1.5					
DISTANCE = 100 METERS													TEST DP-019-600					
NOISE SOURCE/SUBJECT:													RUN 01					
(OPERATION)													METEOROLOGY:					
(FLIGHT IDLE (49X RPM))													TEMP = 15 C					
(SINGLE ENGINE GROUND)													BAR PRESS = 0.760 M HG					
(RUNUP IN THE A/F32T-9)													REL HUMID = 70 X					
(MSS MCCONNELL AFB)													PAGE 4					
ANGLE (DEGREES)													**					
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	79	79	79	81	70	63	67	68	68	70	67	67	70	68	69	65	70	
OASLA	73	73	74	77	55	52	56	61	57	56	52	52	56	57	59	56	54	55
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	66	66	66	69	46	45	49	54	51	47	44	43	49	49	52	49	47	47
ANNOYANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PMLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PMLT	88	89	89	92	69	65	74	74	72	71	67	67	69	70	73	69	67	68
C	1	1	1	1	0	0	3	1	1	2	1	1	0	0	0	1	1	0

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																			
IDENTIFICATION:																			
8.4	DISTANCE = 100 METERS																		
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																			
J85-5(GP) ENGINE (MILITARY PWR (95X RPM)) TEMP = 15 C																			
IN THE A/F32T-9 NSS (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																			
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X																			
FAR FIELD NOISE (NSS MCCONNELL AFB)) PAGE 4																			
HAZARD/PROTECTION																			
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																			
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																			
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																			
NO PROTECTION																			
	OASLC	89	87	85	83	76	78	79	80	81	79	79	77	76	76	77	78	79	78
	OASLA	78	77	78	77	58	64	68	71	72	67	66	61	60	61	62	72	74	67
	T	1358	1440	1358	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																			
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																			
	PSIL	71	71	71	70	50	57	61	64	65	60	59	55	53	54	55	65	67	59
ANNOYANCE																			
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PHDB)																			
TONE CORRECTION (C IN DB)																			
	PNLT	92	92	92	92	70	77	82	83	85	79	78	77	72	74	74	84	85	76
	C	1	1	1	1	0	0	1	1	1	0	0	1	0	0	0	0	0	1
** NO DATA COLLECTED.																			

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)										IDENTIFICATION:										
8.4 DISTANCE = 100 METERS										OMEGA 1.5										
										TEST DP-OT9-600										
										RUN 04										
NOISE SOURCE/SUBJECT:										METEOROLOGY:										
(OPERATION:)										TEMP = 15 C										
(AFTERBURNER PWR(100X RPM))										BAR PRESS = 0.760 M HG										
(SINGLE ENGINE GROUND)										REL HUMID = 70 X										
(IN THE A/F32T-9 NSS)																				
(RUNUP IN THE A/F32T-9)										PAGE 4										
(MCCONNELL AFB, KANSAS)																				
(FAR FIELD NOISE)										MSS MCCONNELL AFB										
										**										
										ANGLE (DEGREES)										
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
HAZARD/PROTECTION																				
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																				
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																				
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																				
NO PROTECTION																				
OASLC	93	92	92	87	80	83	87	84	84	81	85	82	81	86	83	84	83	83	83	83
OASLA	77	85	89	75	71	70	84	75	78	73	75	69	69	76	74	74	72	70	70	70
T	1440	404	202	1440	1440	1440	480	1440	1358	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																				
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																				
PSIL	70	78	81	68	62	60	74	68	70	65	67	61	62	68	66	67	65	64	64	64
ANNOYANCE																				
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																				
TONE CORRECTION (C IN DB)																				
PNLT	92	100	105	90	83	83	94	91	89	85	86	82	81	90	89	88	85	85	85	85
C	0	2	2	1	1	2	0	2	0	0	0	1	0	0	2	1	0	0	1	1

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
8.5 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-0T9-600																		
NOISE SOURCE/SUBJECT:		RUN 05																		
(OPERATION:		15 C																		
(BACKGROUND NOISE		BAR PRESS = 0.760 M HG																		
(SINGLE ENGINE GROUND		03 MAR 87																		
(RUNUP IN THE A/F32T-9		REL HUMID = 70 %																		
(MCCONNELL AFB, KANSAS		PAGE 5																		
(FAR FIELD NOISE																				
(MSS MCCONNELL AFB																				
FREQ		ANGLE (DEGREES)																		
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
4	89	90	90	89	70	77	82	84	86	81	77	84	83	83	84	82			79	81
8	78	81	86	83	64	72	78	80	86	78	73	81	80	83	83	81			74	78
16	80	81	83	83	63	67	72	77	81	74	70	74	78	81	80	74			70	74
31.5	79	80	81	82	67	63	69	71	76	72	67	74	72	75	73	70			68	70
63	73	73	75	80	77	66	66	70	71	69	66	83	70	72	70	70			72	71
125	68	68	71	82	74	62	65	72	70	71	68	85	62	64	66	67			76	70
250	65	63	65	82	60	58	62	71	66	66	62	85	57	60	66	65			70	65
500	62	62	63	83	50	54	64	71	73	63	65	83	61	65	68	68			71	66
1000	59	59	60	79	44	51	59	72	77	63	68	78	63	65	69	67			68	61
2000	56	54	57	70	39	46	51	62	70	60	66	71	64	65	68	66			65	57
4000	49	48	49	53	35	42	48	49	55	56	61	57	61	61	62	61			61	54
8000				43	34	39	45	45	47	47	45	43	46	46	45	46			48	47
OVERALL	90	91	93	93	80	79	84	87	90	84	80	92	86	88	88	85			83	84

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		) OMEGA 1.5																		
DISTANCE = 100 METERS		) TEST DP-019-600																		
NOISE SOURCE/SUBJECT:		) RUN 01																		
) J85-5(GP) ENGINE		) METEOROLOGY:																		
) IN THE A/F32T-9 NSS		) TEMP = 15 C																		
) MCCONNELL AFB, KANSAS		) BAR PRESS = 0.760 M HG																		
) FAR FIELD NOISE		) REL HUMID = 70 X																		
		) PAGE 5																		
)**																		
FREQ	ANGLE (DEGREES)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4	72	74	74	74	72	70	72	76	74	75	76	73	70	74	76	72	74	70	71	
8	67	70	69	66	63	65	72	72	72	71	72	68	65	69	68	68	68	68	67	
16	64	65	67	65	60	61	67	65	67	65	68	64	62	64	64	63	63	64	64	
31.5	65	64	66	65	63	60	66	62	67	66	66	65	64	67	63	63	63	63	65	
63	68	67	69	67	67	60	63	60	65	65	66	62	62	69	65	67	61	59	67	
125	75	75	75	76	65	56	57	61	58	63	62	61	60	64	62	55	58	64		
250	73	73	71	77	53	51	51	59	51	61	54	53	51	52	54	50	51	52		
500	67	65	66	70	51	49	50	60	53	53	46	46	46	53	52	51	52	50	50	
1000	66	66	68	70	48	47	47	57	53	46	44	43	43	51	52	54	51	49	50	
2000	64	65	65	67	44	43	49	50	49	43	45	41	41	48	49	55	48	45	45	
4000	64	67	67	70	42	42	50	48	49	45	41	41	41	43	45	48	44	43	42	
8000	63	65	65	71	39	39	40	43	42	37	36	41	41	41	41	42	38	38	37	
OVERALL	80	81	81	82	74	73	78	77	78	79	75	73	77	77	75	76	74	75		

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-0T9-600																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(OPERATION:		TEMP = 15 C																		
(MILITARY PWR (99X RPM)		BAR PRESS = 0.760 M HG																		
(IN THE A/F32T-9 ENGINE		REL HUMID = 70 X																		
(SINGLE ENGINE GROUND		PAGE 5																		
(MCCONNELL AFB, KANSAS																				
(RUNUP IN THE A/F32T-9																				
(FAR FIELD NOISE																				
(MSS MCCONNELL AFB																				
FREQ		ANGLE (DEGREES)																		
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
4	73	73	71	75	73	76	78	75	74	79	75	74	77	76	79	79	79	79	74	73
8	82	82	82	79	76	76	78	80	78	80	76	74	75	76	76	81	81	81	78	78
16	80	77	77	75	79	79	78	78	78	80	78	78	79	80	80	79	79	79	80	80
31.5	89	88	84	80	77	77	78	80	78	79	80	77	75	76	77	75	77	77	77	77
63	85	82	81	76	68	74	76	76	77	73	73	72	70	71	71	71	71	71	71	71
125	78	76	75	76	62	65	68	66	70	63	62	60	57	61	61	61	61	61	65	66
250	73	73	72	76	57	62	63	62	65	61	59	54	54	55	56	61	61	60	60	57
500	74	72	73	72	56	63	66	70	71	64	65	58	59	60	60	68	68	68	68	64
1000	73	73	73	72	52	59	63	66	67	63	62	54	55	57	58	69	69	70	64	64
2000	70	69	69	68	48	56	60	62	64	60	58	56	51	53	54	66	66	68	58	58
4000	68	69	69	69	43	50	56	57	58	53	52	51	46	48	48	59	59	62	52	52
8000	65	67	67	70	38	43	47	46	47	44	43	38	41	42	42	45	45	47	43	43
OVERALL	92	90	89	87	83	84	85	85	85	86	84	82	83	83	85	86	86	84	84	84

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND	DISTANCE = 100 METERS	OMEGA 1.5																		
NOISE SOURCE/SUBJECT:		TEST DP-0T9-600																		
(OPERATION:		RUN 04																		
(AFTERBURNER PWR(100X RPM)		TEMP = 15 C																		
(SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																		
(RUNUP IN THE A/F32T-9		REL HUMID = 70 X																		
(NSS MCCONNELL AFB		PAGE 5																		
FREQ (HZ)	ANGLE (DEGREES)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4	78	78	80	80	80	75	76	74	81	78	79	76	74	84	83	84	81	81	74	77
8	87	87	86	84	81	71	81	77	81	79	78	79	77	82	84	83	86	86	83	83
16	83	82	82	81	81	69	83	79	78	78	77	82	84	83	85	84	85	84	85	85
31.5	93	91	88	82	82	70	82	79	80	78	81	86	81	80	82	81	83	83	82	82
63	90	86	87	86	78	78	78	77	82	81	74	79	78	77	80	78	79	78	79	79
125	80	81	82	78	73	70	78	75	73	69	70	68	64	78	71	68	69	69	69	69
250	73	75	78	74	72	69	77	77	70	72	70	72	63	63	80	70	67	61	63	63
500	73	75	77	73	70	70	77	74	77	72	72	73	68	66	72	66	68	65	66	66
1000	73	80	82	70	67	64	82	70	73	69	72	62	64	70	70	69	67	66	66	66
2000	70	80	85	66	61	59	76	69	68	65	66	59	62	68	68	68	68	66	64	64
4000	64	76	81	62	50	49	62	59	61	57	56	55	57	63	62	62	61	58	58	58
8000	57	61	65	61	42	49	49	51	53	49	48	47	46	49	48	48	48	47	47	47
OVERALL	96	94	94	91	83	88	88	88	87	86	89	87	89	91	90	91	91	89	89	89

** NO DATA COLLECTED.

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APPENDIX G
Far-Field Noise on the
F101-GE-102 Engine

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TABLE 9.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
 F101-GE-102 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
 McCONNELL AFB, KANSAS

Date of Test: 20 March 1986

Time of Test: 0130 Hrs

Engine Operation

Idle	71 %RPM
Intermediate (Military Pwr)	100 %RPM
Augmented Thrust (Afterburner Power)	100 %RPM

Meteorology

Temperature	0 Deg C
Bar Pressure	0.734 M Hg
Rel Humidity	62 %
Wind - Speed	6 - 10 Knots
- Direction	20 Deg (True)

MEASURED SOUND PRESSURE LEVEL (DB)															IDENTIFICATION:					
1/3 OCTAVE BAND															OMEGA 1.5					
DISTANCE = 100 METERS															TEST DP-079-700					
NOISE SOURCE/SUBJECT:															RUN 05					
OPERATION:															METEOROLOGY:					
BACKGROUND NOISE															TEMP = 0 C					
SINGLE ENGINE GROUND															BAR PRESS = 0.734 M HG					
RUNUP IN THE A/F32T-9															REL HUMID = 62 %					
MSS MCCONNELL AFB															PAGE 2					
FAR FIELD NOISE																				
ANGLE (DEGREES)																				
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15					62	62	64	73	73	61	71	65	64	66	56	60			62	63
4					64	63	68	70	72	65	73	62	62	67	57	61			64	64
5					63	64	66	69	76	63	72	64	66	66	53	60			63	62
6.3					64	66	69	71	73	62	69	63	64	64	53	59			64	64
8					59	63	68	71	71	61	67	63	65	64	59	61			65	60
10					59	64	69	70	69	59	70	63	64	64	59	60			65	62
12.5					56	61	70	70	71	60	69	61	62	63	52	56			62	57
16					53	60	66	67	67	68	68	60	59	62	49	55			57	56
20					49	57	65	67	63	55	65	59	59	61	48	52			58	55
25					47	54	61	66	59	54	65	57	58	59	49	52			58	55
31.5					49	53	59	65	58	52	64	56	56	58	50	52			57	54
40					46	50	57	61	55	51	60	53	54	56	50	53			54	52
50					47	48	56	51	53	48	57	52	52	54	50	52			53	53
63					47	50	54	51	52	51	55	52	50	52	49	52			54	52
80					47	47	54	49	51	49	53	48	49	51	51	51			51	50
100					46	48	52	49	50	50	54	49	49	51	53	52			53	52
125					49	46	46	45	45	44	48	42	42	42	42	46			49	47
160					39	43	46	45	45	44	48	42	42	42	42	46			49	47
200					38	42	47	47	46	43	46	41	38	40	39	43			40	40
250					37	38	42	42	41	41	42	37	36	39	37	42			38	37
315					33	35	37	40	37	35	38	34	35	39	36	40			37	37
400					35	37	38	40	38	33	37	34	37	40	37	37			36	36
500					35	36	39	39	40	34	38	36	38	40	36	37			36	36
630					31	33	37	33	38	35	37	35	36	35	34	37			35	34
800					33	37	41	39	32	36	34	35	33	33	32	36			34	33
1000					37	37	37	31	30	32	33	30	30	31	30	32			31	30
1250					33	39	38	25	25	31	33	31	31	30	29	30			29	29
1600					31	34	35	23	28	30	30	29	29	30	28	28			28	27
2000					25	27	31	22	26	28	29	28	28	28	24	25			27	25
2500					24	26	29	20	22	26	28	29	29	29	23	23			26	24
3150					23	25	28	22	25	29	29	29	29	29	22	23			24	24
4000					22	23	25	26	23	30	30	30	30	31	23	23			23	24
5000					22	22	23	25	31	32	32	32	31	32	24	23			24	25
6300					22	21	22	23	25	32	32	32	32	32	24	24			24	26
8000					23	22	22	23	33	33	33	33	33	33	25	25			24	26
10000					24	23	23	23	34	34	34	34	34	34	26	26			26	27
OVERALL	70	66	65	67	71	73	77	80	81	71	80	72	73	74	66	69			73	71

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

MEASURED SOUND PRESSURE LEVEL (DB)										IDENTIFICATION:										
1/3 OCTAVE BAND										OMEGA 1.5										
DISTANCE = 100 METERS										TEST DP-019-700										
NOISE SOURCE/SUBJECT:										METEOROLOGY:										
(OPERATION:										TEMP :										
(IDLE POWER										O C										
(SINGLE ENGINE GROUND										BAR PRESS : 0.734 M HG										
(RUNUP IN THE A/F32T-9										REL HUMID : 62 X										
(MSS MCCONNELL AFB										PAGE 2										
FREQ	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
(HZ)																				
3.15					61	75	62	75	69	63	67	82	78	70	75	74			77	79
4					62	72	62	77	66	65	67	81	77	72	74	73			78	76
5					58	71	63	74	69	64	68	82	78	74	74	69			76	73
6.3					60	69	60	73	67	63	67	80	77	69	74	69			76	75
8					61	72	63	70	68	62	65	79	73	66	71	66			74	74
10					61	72	61	70	69	63	69	79	72	64	71	65			76	72
12.5					58	70	60	69	65	63	66	78	69	63	67	65			75	71
16					56	68	59	67	63	62	66	77	68	63	68	63			72	70
20					54	65	56	64	61	60	63	75	66	59	65	61			69	68
25	62	62	58	59	53	64	54	66	57	58	61	74	64	59	64	61			68	65
31.5	60	60	58	58	52	60	52	62	57	56	61	71	63	58	63	59			67	64
40	56	55	54	55	48	56	50	59	54	53	59	69	60	56	59	57			64	63
50	55	54	53	54	47	52	51	55	50	52	53	69	56	50	55	53			62	59
63	55	52	53	54	46	50	50	55	49	53	54	66	55	49	53	54			60	55
80	53	53	51	52	42	48	48	52	49	49	50	63	52	48	52	51			57	52
100	56	56	54	54	43	46	46	49	47	51	50	59	50	50	51	51			55	51
125	54	57	57	61	47	51	47	49	48	49	49	57	48	49	51	50			54	51
160	50	50	48	48	40	41	41	44	42	42	42	52	45	42	46	46			50	47
200	49	50	56	51	42	40	39	45	42	42	43	48	42	38	42	46			45	41
250	50	49	50	49	40	39	40	41	43	40	41	45	40	36	38	42			41	39
315	51	51	45	48	37	38	42	42	45	37	37	41	37	35	37	40			41	39
400	43	40	41	41	36	39	41	40	40	36	37	39	39	39	37	36			38	35
500	44	39	43	40	36	36	41	40	42	38	38	39	41	38	36	39			34	35
630	46	48	56	43	31	33	37	37	39	38	36	37	40	36	36	39			36	37
800	48	44	52	43	30	31	38	38	44	39	41	35	38	36	37	39			40	46
1000	40	38	42	42	26	27	31	32	34	33	33	33	33	33	34	34			34	33
1250	41	38	40	43	25	25	30	31	31	32	32	32	31	29	30	34			32	31
1600	36	35	35	39	23	23	29	30	30	30	29	30	31	29	30	32			33	31
2000	37	35	34	35	22	23	30	31	35	32	31	30	29	27	29	31			32	30
2500	50	45	43	37	27	28	41	41	48	42	41	37	33	34	36	37			35	36
3150	37	35	34	31	21	23	29	31	32	31	30	31	29	27	28	29			30	29
4000	40	38	36	30	22	24	33	35	32	33	32	32	30	28	29	30			31	30
5000	43	40	38	31	23	25	33	35	31	33	33	32	31	29	30	31			31	31
6300	35	33	31	28	23	24	27	33	25	32	32	33	31	30	30	31			31	31
8000	35	33	31	28	24	25	27	33	25	33	33	33	32	31	32	32			32	32
10000	32	30	30	29	25	25	26	34	26	34	34	34	33	33	33	33			33	33
OVERALL	67	67	66	66	69	81	71	82	77	73	77	89	84	78	82	79			85	84

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-019-700																		
NOISE SOURCE/SUBJECT:		RUN 02																		
(F101 ENGINE IN THE		O C																		
(A/F32T-9 NSS		BAR PRESS 0.734 M HG																		
(MCCONNELL AFB, KANSAS		REL HUMID 62 X																		
(FAR FIELD NOISE		PAGE 2																		
OPERATION:		METEOROLOGY:																		
(INTMD POWER(100 X RPM)		TEMP																		
(SINGLE ENGINE GROUND		BAR PRESS																		
(RUNUP IN THE A/F32T-9		REL HUMID																		
(NSS MCCONNELL AFB																				
FREQ (HZ)	ANGLE (DEGREES)	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
3.15					69	71	71	69	72	71	71	73	69	74	76	75			77	73
4					74	75	74	76	75	78	77	80	76	77	77	77			77	75
5					74	75	78	79	74	78	74	77	74	78	76	76			79	79
6.3					74	77	78	77	80	79	76	80	81	81	84	84			83	82
8					82	83	84	84	86	88	83	84	84	84	84	90			85	86
10					85	85	86	84	86	89	86	86	86	87	86	89			87	89
12.5					86	88	88	91	89	92	89	90	91	90	91	94			93	92
16					88	89	92	92	89	94	91	91	87	95	94	94			91	94
20					84	86	87	88	89	90	87	89	87	88	87	84			92	90
25		88	83	84	84	83	85	87	85	87	89	86	86	86	89	84			87	89
31.5		86	83	81	82	81	84	87	85	87	87	87	83	81	85	92			90	89
40		85	87	82	79	80	83	85	85	85	84	84	81	79	81	85			87	89
50		82	78	80	76	76	78	82	82	83	80	80	76	77	80	84			86	88
63		84	82	81	74	73	77	81	81	82	83	80	76	77	80	84			84	86
80		80	80	76	73	70	76	80	81	80	82	79	74	74	77	79			81	82
100		77	79	78	72	67	75	78	77	78	77	75	71	73	75	77			80	80
125		75	77	75	70	63	73	75	75	77	73	68	68	70	71	74			79	78
160		74	75	73	68	59	71	71	71	73	74	70	64	65	68	70			77	78
200		70	76	72	62	59	71	67	68	70	71	66	62	63	64	67			76	76
250		66	70	66	58	56	67	63	64	68	68	62	60	62	61	64			69	70
315		64	64	61	53	49	61	59	61	65	65	60	57	59	63	61			64	65
400		60	58	60	53	45	56	57	57	62	65	60	55	61	66	65			63	67
500		57	56	59	50	43	53	55	56	60	64	60	54	62	65	67			59	64
630		54	56	58	48	41	52	56	55	56	63	60	53	58	63	65			61	65
800		54	55	57	47	40	50	55	56	62	60	52	56	60	63	66			64	66
1000		53	56	54	47	39	49	54	55	56	60	59	52	56	61	64			64	64
1250		52	54	51	45	39	48	53	54	55	59	58	52	54	59	60			63	61
1600		53	55	51	45	39	49	51	53	55	60	56	51	54	57	59			61	58
2000		54	55	52	44	38	48	50	52	54	58	54	50	52	55	57			58	57
2500		53	53	51	43	38	46	49	50	52	56	53	49	50	54	55			56	55
3150		52	51	49	41	39	44	47	49	54	51	47	47	52	52	56			54	53
4000		50	50	48	40	40	43	45	46	46	51	48	44	45	48	49			52	51
5000		50	49	47	41	41	43	45	45	45	48	46	43	43	43	47			50	49
6300		51	50	48	41	42	43	45	44	44	46	45	43	43	43	43			47	47
8000		47	45	45	42	43	43	44	44	44	45	44	43	43	43	43			48	48
10000		45	45	44	43	44	44	44	44	44	44	44	44	44	44	44			48	48
OVERALL		93	92	90	88	94	95	97	97	99	97	97	95	98	98	101			99	100

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-0T9-700																	
NOISE SOURCE/SUBJECT:		RUN 04																	
(OPERATION:		METEOROLOGY:																	
(AFTERBURNER PWR(100X RPM)		TEMP = 0 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.734 M HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 62 X																	
(NSS MCCONNELL AFB		PAGE 2																	
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	74	76	77	76	74	71	74	77	77	75	79	82	79	78	78	75	77	77	79
4	87	89	88	87	79	75	78	79	80	81	82	85	82	79	82	82	81	81	82
5	87	85	87	85	82	84	81	85	83	85	84	86	84	86	84	86	85	85	87
6.3	89	89	90	88	85	84	82	86	86	82	84	88	88	86	91	92	91	90	90
8	92	92	91	87	89	88	89	90	90	92	91	92	92	92	96	96	92	94	94
10	92	93	92	89	92	91	90	92	95	96	93	94	95	92	93	98	96	95	95
12.5	94	96	93	91	93	94	95	96	97	98	98	97	97	95	101	102	100	98	98
16	96	94	94	94	97	98	100	100	99	102	99	99	98	103	103	104	99	104	104
20	95	91	92	93	96	95	98	99	98	103	97	99	97	100	98	96	100	100	100
25	96	92	93	93	95	97	98	98	98	101	99	98	93	98	102	99	100	101	101
31.5	92	91	93	91	93	95	96	95	97	99	97	93	92	97	99	104	102	100	100
40	93	93	92	87	89	92	95	93	95	94	94	90	91	93	98	101	98	100	100
50	97	92	92	89	88	92	94	94	95	91	95	90	93	95	98	99	101	101	101
63	95	89	89	83	83	90	93	91	93	95	91	88	91	91	94	99	98	98	98
80	91	87	85	79	77	87	88	89	92	93	89	85	85	87	90	93	93	93	93
100	89	87	85	77	76	85	86	85	87	87	86	80	82	84	84	88	89	88	88
125	86	85	83	75	70	82	84	83	85	87	82	78	77	82	81	83	86	85	85
160	85	84	82	70	67	82	82	80	83	83	81	76	76	79	78	79	82	83	83
200	81	83	81	70	67	81	79	77	82	83	81	77	77	77	76	78	80	79	79
250	83	83	80	71	66	78	75	75	80	82	78	78	79	77	77	82	79	81	81
315	80	77	76	69	61	75	72	72	78	79	75	75	78	79	78	84	82	84	84
400	78	72	71	65	57	71	70	70	76	77	76	72	77	80	80	86	85	86	86
500	76	70	69	63	55	70	69	72	74	76	78	72	78	81	83	87	89	89	89
630	74	68	67	60	53	70	69	71	73	75	79	71	77	80	82	84	86	85	85
800	75	67	67	60	52	68	69	70	73	77	78	69	73	77	80	81	80	78	78
1000	75	66	66	59	51	67	68	70	74	77	76	68	72	75	76	79	80	82	82
1250	73	64	65	58	51	66	67	69	71	76	74	68	71	74	75	79	81	80	80
1600	72	63	64	56	50	64	65	68	69	73	71	67	70	72	74	77	78	78	78
2000	70	62	63	55	49	63	64	66	68	70	70	65	67	69	72	75	76	75	75
2500	69	60	60	53	49	61	61	64	66	69	67	62	64	67	69	72	73	73	73
3150	65	58	58	51	49	59	59	61	63	65	64	58	61	64	66	69	70	70	70
4000	62	57	56	49	49	56	56	58	59	61	60	59	61	64	66	69	70	70	70
5000	59	55	54	49	49	54	54	55	57	58	58	58	59	61	64	66	66	66	66
6300	54	53	53	50	49	53	54	54	55	57	57	58	58	59	61	64	64	64	64
8000	53	52	51	50	49	53	54	54	55	57	57	58	58	59	61	64	64	64	64
10000	53	53	53	53	53	54	55	55	55	55	58	58	58	59	59	59	59	59	59
OVERALL	105	103	103	101	103	104	106	106	107	109	106	106	105	108	109	111	110	110	110

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:											
1/3 OCTAVE BAND													
DISTANCE = 100 METERS		OMEGA 1.5											
		TEST DP-0T9-700											
		RUN 05											
NOISE SOURCE/SUBJECT:		METEOROLOGY:											
(F101 ENGINE IN THE		TEMP = 15 C											
(A/F32T-9 N55		BAR PRESS = 0.760 M HG											
(MCCONNELL AFB-KANSAS		REL HUMID = 70 X											
(FAR FIELD NOISE		PAGE 3											
		**											
FREQ	ANGLE (DEGREES)												
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180												
3.15	62 62 64 73 73 61 71 65 64 66 56 60												
4	64 63 68 70 72 65 73 62 62 67 57 61												
5	63 64 66 69 76 63 72 64 66 66 53 60												
6.3	64 66 69 71 73 62 69 63 64 64 53 59												
8	59 63 68 71 71 61 67 63 64 64 59 61												
10	59 64 69 70 69 59 70 63 64 64 59 60												
12.5	56 61 70 70 71 60 69 61 62 63 52 56												
16	53 60 66 67 67 58 68 60 59 62 49 55												
20	49 57 65 67 63 55 65 59 59 61 48 52												
25	47 54 61 66 59 54 65 57 58 59 49 52												
31.5	49 53 59 65 58 52 64 56 56 58 50 52												
40	46 50 57 61 55 51 60 53 54 56 50 53												
50	47 48 56 51 53 48 57 52 52 54 50 52												
63	61 55 59 60 54 51 52 51 55 52 50 52												
80	56 54 52 54 47 54 49 51 49 53 48 49												
100	57 58 55 54 46 48 52 49 50 54 49 49												
125	50 53 51 49 51 50 49 49 49 48 48 48												
160	49 46 46 39 43 45 44 45 44 42 42 42												
200	48 48 53 51 38 42 47 47 46 43 46 41												
250	45 43 49 45 37 38 42 42 41 41 42 37												
315	38 38 41 40 33 35 37 40 37 35 38 34												
400	37 37 39 35 37 38 40 38 33 37 34 37												
500	34 36 38 41 35 36 39 39 40 34 38 36												
630	33 35 38 40 31 33 37 33 38 35 37 35												
800	34 37 41 39 29 31 35 32 36 34 35 33												
1000	30 33 37 26 27 32 30 33 33 31 31 31												
1250	30 33 39 38 26 25 31 30 31 33 33 31												
1600	27 31 35 36 24 24 29 29 30 31 32 30												
2000	26 28 32 33 24 23 27 29 30 32 31 29												
2500	26 28 31 32 24 24 27 30 31 33 31 30												
3150	25 27 30 30 24 24 27 31 32 33 31 31												
4000	25 26 28 29 26 26 28 33 34 35 33 33												
5000	26 25 26 28 27 26 28 35 36 35 35 35												
6300	27 26 27 28 29 28 30 37 38 37 37 37												
8000	30 29 29 30 31 31 32 40 40 40 40 40												
10000	32 31 31 31 33 33 34 42 42 42 42 42												
OVERALL	70 66 65 67 71 73 77 80 81 71 80 73 73 74 66 69 73 71												

** NO DATA COLLECTED.

TABLE		SOUND PRESSURE LEVEL (DB)													IDENTIFICATION:					
9.3		1/3 OCTAVE BAND													OMEGA 1.5					
		DISTANCE = 100 METERS													TEST DP-0T9-700					
NOISE SOURCE/SUBJECT:		METEOROLOGY:													RUN 01					
F101 ENGINE IN THE		TEMP = 15 C																		
A/F321-9 NSS		BAR PRESS = 0.760 M HG													11 MAR 87					
MCCONNELL AFB, KANSAS		REL HUMID = 70 X																		
FAR FIELD NOISE		NSS MCCONNELL AFB													PAGE 3					
FREQ		ANGLE (DEGREES)													**					
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
					61	75	62	75	69	63	67	82	78	70	75	74			77	79
	3.15				62	72	62	77	66	65	67	81	77	72	74	73			77	76
	4				58	71	63	74	69	64	68	82	78	74	74	59			76	73
	5				60	69	60	73	67	63	67	80	77	69	74	69			76	75
	6.3				61	72	63	70	68	62	65	79	73	66	71	66			74	74
	8				61	72	61	70	69	63	69	79	72	64	71	65			76	72
	10				58	70	60	69	65	63	66	78	69	63	67	65			75	71
	12.5				56	68	59	67	63	62	66	77	68	63	68	63			72	70
	16				54	65	56	64	61	60	63	75	66	59	65	61			69	68
	20				53	64	54	66	57	58	61	74	64	59	64	61			68	65
	25	62	62	59	52	60	52	62	57	56	61	71	63	58	63	59			67	64
	31.5	60	60	58	52	60	52	62	57	56	61	71	63	58	63	59			67	64
	40	56	55	54	55	48	56	50	54	53	59	69	60	56	59	57			64	63
	50	55	54	53	54	47	52	51	55	50	52	53	69	56	50	55	53		62	59
	63	55	52	53	54	46	50	50	55	49	53	54	66	55	49	53	54		60	55
	80	53	53	51	52	48	48	52	49	49	50	63	52	48	52	51	51		57	52
	100	56	56	54	54	43	46	46	49	47	51	50	59	50	50	51	51		55	51
	125	54	57	57	61	47	51	47	49	48	49	49	57	48	49	51	50		54	51
	160	50	50	48	48	40	41	41	44	42	42	42	52	45	42	46	46		50	47
	200	49	50	56	51	42	40	39	45	42	42	43	48	42	38	42	46		45	41
	250	50	49	50	49	40	39	40	41	43	40	41	45	40	36	38	42		41	39
	315	51	51	45	48	37	38	42	42	45	37	41	37	35	37	40	41		41	39
	400	43	40	41	41	36	39	41	40	40	36	37	39	39	36	38	35		35	35
	500	44	39	43	40	36	36	41	40	42	38	38	39	41	38	36	39		34	35
	630	46	48	56	43	31	33	37	39	38	36	37	40	36	36	39	39		36	37
	800	48	44	52	43	30	31	38	38	44	39	41	35	38	36	37	39		40	46
	1000	41	39	42	42	26	27	31	32	34	33	33	33	30	32	34	34		34	33
	1250	41	38	40	44	23	26	30	31	32	32	33	32	30	31	34	32		32	31
	1600	37	36	36	40	24	24	30	31	31	31	30	31	29	30	32	33		33	31
	2000	38	36	35	36	23	24	31	32	36	33	32	31	30	28	30	32		33	31
	2500	52	47	45	39	28	30	43	43	49	44	42	38	34	36	37	39		36	37
	3150	39	37	36	33	23	25	31	33	34	33	32	33	31	29	30	31		32	31
	4000	43	41	39	33	25	28	36	38	35	36	35	35	33	31	32	33		34	33
	5000	47	44	41	34	26	28	37	38	34	37	36	36	34	33	34	35		35	34
	6000	40	38	36	33	28	29	32	38	30	37	37	37	36	35	36	36		36	36
	8000	41	39	37	35	31	32	33	40	32	40	40	39	38	38	38	38		39	38
	10000	39	38	37	37	32	33	33	42	33	42	42	41	41	41	41	41		41	41
	OVERALL	67	67	66	66	69	81	71	82	77	73	77	89	84	78	82	79		85	84

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-700																	
		RUN 02																	
NOISE SOURCE/SUBJECT:		METEOROLOGY:																	
(F101 ENGINE IN THE		(TEMP = 15 C																	
(A/F32T-9 NSS		(BAR PRESS = 0.760 M HG																	
(MCCONNELL AFB, KANSAS		(REL HUMID = 70 %																	
(FAR FIELD NOISE		(PAGE 3																	
		**																	
FREQ	ANGLE (DEGREES)																		
(HZ)	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
3.15	69 71 71 69 72 71 71 73 69 74 76 75																		
4	74 75 74 76 75 78 77 80 77 80 76 77 77																		
5	74 75 78 79 74 78 74 77 74 78 76 76																		
6.3	74 77 78 77 80 79 76 80 81 81 84 84																		
8	82 83 84 84 86 88 83 84 84 84 84 90																		
10	85 85 86 86 89 86 86 86 86 86 87 89																		
12.5	86 88 88 91 89 92 89 90 91 90 91 94																		
16	88 89 92 92 89 94 91 91 87 95 94 94																		
20	84 86 87 88 89 90 87 89 87 88 87 84																		
25	83 85 87 85 87 89 86 86 82 86 89 84																		
31.5	81 82 81 84 87 85 87 87 83 81 85 86																		
40	80 83 85 85 85 84 84 81 85 81 85 91																		
50	76 78 82 82 83 80 80 77 79 81 84 85																		
63	77 77 81 81 82 83 80 76 77 77 80 84																		
80	76 73 70 76 80 81 80 82 79 74 74 77																		
100	72 67 75 78 77 75 71 73 73 73 75 77																		
125	70 63 73 75 75 75 73 68 68 70 71 74																		
160	68 59 71 71 71 73 74 70 64 65 68 70																		
200	67 62 59 71 67 68 70 71 66 62 63 64																		
250	66 58 56 67 63 64 68 68 62 60 60 62																		
315	64 61 53 49 61 59 61 65 65 60 57 59																		
400	60 58 60 53 45 56 57 62 63 60 55 61																		
500	57 56 59 50 43 53 55 56 60 54 62 65																		
630	54 56 58 48 41 52 56 55 56 63 60 53																		
800	54 55 57 47 40 50 55 56 56 62 60 52																		
1000	53 56 54 48 39 49 54 55 57 60 59 52																		
1250	52 54 51 46 39 49 53 54 56 59 58 52																		
1600	53 55 52 45 39 50 52 53 55 60 56 52																		
2000	55 56 53 45 39 49 51 53 55 59 55 51																		
2500	54 55 52 44 40 47 51 52 54 58 54 51																		
3150	54 54 51 44 41 46 49 51 52 56 53 49																		
4000	54 53 51 43 43 46 48 49 49 54 51 47																		
5000	53 53 51 44 44 46 48 49 49 52 50 47																		
6300	56 55 53 46 47 48 50 49 49 51 50 48																		
8000	54 52 51 49 49 50 50 51 50 52 51 50																		
10000	53 52 51 52 52 52 52 52 53 52 52 52																		
OVERALL	93 92 90 88 94 95 97 98 97 99 97 95																		
		100 100																	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-700																		
NOISE SOURCE/SUBJECT:		OPERATION:																		
F101 ENGINE IN THE		AFTERBURNER PWR (100% RPM)																		
A/F32T-9 MSS		SINGLE ENGINE GROUND																		
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																		
FAR FIELD NOISE		MSS MCCONNELL AFB																		
METEOROLOGY:		TEMP = 15 C																		
		BAR PRESS = 0.760 M HG																		
		REL HUMID = 70 X																		
		PAGE 3																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
																				**
3.15	74	76	77	76	74	71	74	77	77	75	79	82	79	78	78	75	77	79	79	
4	87	89	88	87	79	75	78	79	80	81	82	85	82	79	82	82	81	82	81	
5	87	85	87	85	82	84	81	85	83	85	84	86	84	82	84	86	85	87	85	
6.3	89	89	90	88	85	84	82	86	86	82	84	88	88	86	86	91	92	91	90	
8	92	92	91	87	89	88	89	90	90	93	92	91	92	92	92	96	92	94	92	
10	92	93	92	89	92	91	90	92	95	96	93	94	95	92	93	98	96	95	98	
12.5	94	96	93	91	93	94	95	96	97	98	98	97	97	95	101	102	100	98	100	
16	96	94	94	94	97	98	100	100	99	102	98	99	98	103	103	104	99	104	99	
20	95	91	92	93	96	95	98	99	98	103	97	99	97	100	96	96	100	100	100	
25	96	92	93	93	95	97	98	98	98	101	99	98	93	98	102	99	100	101	100	
31.5	92	91	93	91	93	95	96	95	97	99	97	93	92	97	99	104	102	100	102	
40	93	93	92	87	89	92	95	93	95	94	94	90	91	93	98	101	98	101	100	
50	97	92	92	89	88	92	94	94	95	91	95	90	93	95	98	99	101	101	101	
63	95	89	89	83	83	90	93	91	93	95	91	88	91	91	94	99	98	98	98	
80	91	87	85	79	77	87	88	89	92	93	89	85	85	87	90	93	93	93	93	
100	89	87	85	77	76	85	86	85	87	87	86	80	82	84	84	88	88	88	88	
125	86	85	83	75	70	82	84	83	85	87	82	78	77	82	81	83	86	85	85	
160	85	84	82	70	67	82	82	80	83	83	81	76	76	79	78	79	82	83	82	
200	81	83	81	70	67	81	79	77	82	83	81	77	77	77	76	78	80	79	80	
250	83	83	80	71	66	78	75	75	80	82	78	78	79	77	77	82	79	81	81	
315	80	77	76	69	61	75	72	72	78	79	75	75	78	79	78	84	82	84	84	
400	78	72	71	65	57	71	70	70	76	77	76	72	77	80	80	86	85	86	86	
500	76	70	69	63	55	70	69	72	74	76	78	72	77	80	80	87	89	89	89	
630	74	68	67	60	53	70	69	71	73	75	79	71	77	80	82	84	86	85	85	
800	75	67	67	60	52	68	69	70	73	77	78	69	73	77	80	81	80	78	80	
1000	75	66	66	59	52	67	69	70	74	77	76	68	72	75	76	79	80	82	80	
1250	73	64	65	58	51	67	68	69	72	76	74	68	72	74	76	79	81	80	81	
1600	72	64	65	57	51	65	66	68	70	74	72	67	70	73	74	78	79	79	79	
2000	71	63	64	56	50	64	65	67	69	71	71	66	68	70	73	76	77	76	77	
2500	70	62	62	54	50	63	63	65	68	70	69	64	66	68	71	74	75	75	75	
3150	67	60	60	53	50	61	61	63	65	68	66	60	63	66	68	71	72	72	72	
4000	65	60	59	52	50	59	59	61	63	65	64	60	63	65	67	69	69	69	69	
5000	63	59	58	53	50	57	58	59	60	60	60	60	60	60	64	64	65	65	65	
6300	59	58	58	55	50	58	58	59	59	59	59	59	59	59	63	63	63	63	63	
8000	60	59	58	50	50	60	61	61	61	61	61	61	61	61	61	61	61	61	61	
10000	61	61	61	61	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	
OVERALL	105	104	103	101	103	104	106	106	107	109	106	106	105	108	109	111	110	110	110	

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)

9.4 DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.5
TEST DP-0T9-700
RUN 05

NOISE SOURCE/SUBJECT: OPERATION: METEOROLOGY:
F101 ENGINE IN THE (BACKGROUND NOISE) TEMP = 15 C
A/F32T-9 MSS (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 %
FAR FIELD NOISE (N55 MCCONNELL AFB) PAGE 4

ANGLE (DEGREES)

HAZARD/PROTECTION

C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)

NO PROTECTION

	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
OASLC	68	64	64	65	57	61	67	69	66	60	68	62	62	64	59	60	63	61	
OASLA	47	47	50	49	42	43	46	48	48	48	48	47	47	48	44	45	45	44	
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440

COMMUNICATION

PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)

	34	36	39	40	32	33	36	38	39	38	39	37	38	38	35	36	35	35
PSIL	34	36	39	40	32	33	36	38	39	38	39	37	38	38	35	36	35	35

ANNOYANCE

PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)
TONE CORRECTION (C IN DB)

	60	61	64	63	54	56	58	62	62	61	62	61	60	61	56	57	57	57
PNLT	60	61	64	63	54	56	58	62	62	61	62	61	60	61	56	57	57	57
C	0	1	1	1	1	1	0	1	1	0	0	1	0	0	1	0	0	0

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																				
IDENTIFICATION:																				
9.4	DISTANCE = 100 METERS																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:																				
F101 ENGINE IN THE	(IDLE POWER	(TEMP	=	15 C	(OMEGA 1.5							
A/F32T-9 NSS	(SINGLE ENGINE GROUND	(BAR PRESS	=	0.760 M HG	(TEST DP-0T9-700							
MCCONNELL AFB, KANSAS	(RUNUP IN THE A/F32T-9	(REL HUMID	=	70 %	(RUN 01							
FAR FIELD NOISE	(	NSS MCCONNELL AFB	(									11 MAR 87
PAGE 4																				

0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
HAZARD/PROTECTION																				
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																				
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																				
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																				
NO PROTECTION																				
OASLC	65	65	65	58	67	60	68	64	63	66	77	68	63	68	65			72	70	
OASLA	57	55	58	42	44	49	50	53	50	49	51	48	47	47	49			49	50	
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440			1440	1440	
COMMUNICATION																				
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																				
PSIL	50	47	50	44	33	34	42	42	45	42	42	40	40	38	39	41			40	41
ANNNOYANCE																				
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																				
TONE CORRECTION (C IN DB)																				
PNLT	76	73	72	68	56	58	67	68	72	68	67	68	63	62	64	66			65	66
C	4	3	3	2	2	2	4	3	4	3	3	2	1	2	2	2			2	4

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																		
IDENTIFICATION:																		
9.4 DISTANCE = 100 METERS																		
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY: OMEGA 1.5																		
F101 ENGINE IN THE (INTMD POWER(100 X RPM)) TEMP = 15 C TEST DP-019-700																		
A/F32T-9 NSS (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG RUN 02																		
MCCONNELL AFB-KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 % 11 MAR 87																		
FAR FIELD NOISE (NSS MCCONNELL AFB)) PAGE 4																		
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	91	90	88	85	87	89	92	91	92	93	91	90	88	91	92	95	94	95
OASLA	70	71	69	63	59	67	68	69	70	73	69	65	67	71	72	77	74	75
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	59	60	59	51	46	54	57	58	60	64	61	56	59	63	64	69	65	65
ANNOYANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PNLT	87	88	86	79	74	83	85	85	86	88	85	80	82	84	85	90	89	90
C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																				
IDENTIFICATION:																				
9.4	DISTANCE = 100 METERS																			
NOISE SOURCE/SUBJECT:																				
(OPERATION:) METEOROLOGY:																				
(AFTERBURNER PWR(100X RPM)) TEMP = 15 C																				
(SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG																				
(RUMUP IN THE A/F32T-9) REL HUMID = 70 X																				
(NSS MCCONNELL AFB)																				
PAGE 4																				
HAZARD/PROTECTION																				
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																				
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																				
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																				
NO PROTECTION																				
	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
	OASLC	102	99	98	95	97	100	102	101	102	104	102	100	99	102	104	107		106	106
	OASLA	85	81	80	72	67	80	80	80	83	86	85	79	83	86	87	91		91	92
	T	404	807	960	1440	1440	960	960	960	571	339	404	1142	571	339	285	143		143	120
COMMUNICATION																				
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																				
	PSIL	77	69	69	62	70	70	72	75	77	77	77	77	77	79	82			83	83
ANNOYANCE																				
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																				
TONE CORRECTION (C IN DB)																				
	PNLT	101	97	96	90	84	96	97	97	99	100	99	94	96	99	101	104		106	106
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	1

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
9.5 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-OT9-700																		
NOISE SOURCE/SUBJECT:		RUN 05																		
(F101 ENGINE IN THE		METEOROLOGY:																		
(A/F32T-9 NSS		TEMP = 15 C																		
(MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M Hg																		
(FAR FIELD NOISE		REL HUMID = 70 X																		
(NSS MCCONNELL AFB		PAGE 5																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
4					68	68	71	76	79	68	77	69	69	71	61	65			68	68
8					66	69	73	75	76	66	74	68	69	69	62	65			69	67
16					58	65	72	73	73	63	72	64	65	67	55	59			64	61
31.5	68	63	60	64	52	57	64	69	62	57	68	60	61	63	55	57			61	59
63	64	60	60	63	52	53	59	55	57	54	60	56	55	58	55	57			58	57
125	59	59	57	56	51	53	55	52	53	53	57	52	52	53	54	54			56	55
250	50	50	55	52	41	44	48	49	47	46	48	43	41	44	42	46			43	43
500	40	41	43	45	39	41	43	43	43	39	42	40	42	43	41	42			41	40
1000	36	40	44	43	32	33	38	36	38	38	39	36	36	36	36	38			37	36
2000	31	34	38	39	29	28	33	34	35	37	36	34	34	35	31	32			33	31
4000	30	31	33	34	30	30	33	38	39	39	38	38	38	39	31	31			31	32
8000	35	34	34	35	36	36	37	45	45	45	45	45	45	45	37	37			36	38
OVERALL	70	66	65	67	71	73	77	80	81	71	80	73	73	74	66	69			73	71

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
9.5 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-OT9-700																		
NOISE SOURCE/SUBJECT:		RUN 01																		
F101 ENGINE IN THE		METEOROLOGY:																		
A/F321-9 NSS		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
FAR FIELD NOISE		REL HUMID = 70 %																		
		OPERATION:																		
		IDLE POWER																		
		SINGLE ENGINE GROUND																		
		RUNUP IN THE A/F321-9																		
		NSS MCCONNELL AFB																		
		PAGE 5																		
FREQ	(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4						65	78	67	80	73	69	72	86	82	77	79	77	77	82	82
8						65	76	66	76	73	67	72	84	79	72	77	72	72	80	78
16						61	73	64	72	68	66	70	81	73	67	72	68	68	77	75
31.5		65	65	62	62	56	66	57	68	61	61	65	77	67	63	67	64	71	69	
63		59	58	57	58	50	55	55	59	54	57	57	71	59	54	58	58	65	61	
125		59	60	59	62	49	52	50	53	51	54	53	62	53	52	55	54	58	55	
250		55	55	57	54	45	44	45	48	48	45	46	50	45	41	44	48	48	45	
500		49	49	56	46	40	41	45	44	45	42	42	43	45	42	41	44	40	41	
1000		49	46	53	48	32	33	39	40	45	41	42	39	40	38	39	41	42	46	
2000		52	48	46	43	30	32	43	43	50	44	43	40	37	37	39	40	39	39	
4000		49	46	44	38	30	32	40	42	39	40	40	39	38	36	37	38	38	38	
8000		45	43	42	40	35	36	38	45	37	45	45	45	44	43	43	43	44	44	
OVERALL		67	67	66	66	69	81	71	82	77	73	77	89	84	78	82	79	85	84	

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-OT9-700																		
NOISE SOURCE/SUBJECT:		RUN 02																		
F101 ENGINE IN THE		METEOROLOGY:																		
A/F32T-9 NSS		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
FAR FIELD NOISE		REL HUMID = 70 %																		
		PAGE 5																		
FREQ		**																		
(HZ)		ANGLE (DEGREES)																		
		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4						78	79	80	81	79	81	79	82	78	81	81	81	81	82	81
8						87	88	89	88	90	92	88	89	89	90	90	93	90	91	91
16						91	92	95	95	94	97	94	95	93	97	96	97	97	97	97
31.5						86	89	91	90	91	92	91	89	86	89	92	95	93	94	94
63	91	90	88	87	79	78	82	86	86	87	87	84	81	82	83	86	88	89	91	91
125	87	85	84	79	78	78	82	86	86	87	87	84	81	82	83	86	88	89	91	91
250	81	82	81	75	69	78	80	80	80	80	81	77	73	74	76	77	79	84	84	84
500	72	77	73	64	61	73	69	70	73	73	68	65	66	68	69	71	77	77	77	77
1000	62	62	64	56	48	59	61	61	64	69	65	59	65	70	70	77	66	70	70	70
2000	58	60	59	52	44	54	59	60	61	65	64	57	60	65	66	70	69	69	69	69
4000	59	60	57	50	44	54	56	57	59	64	60	56	58	61	63	67	64	63	63	63
8000	58	58	56	48	48	51	53	54	55	59	56	53	53	56	56	61	60	59	59	59
	59	58	57	54	54	55	55	55	55	57	56	55	55	55	56	61	60	59	59	59
OVERALL	93	92	90	88	94	95	97	98	97	99	97	97	95	98	98	101	100	100	100	100

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-OT9-700																		
NOISE SOURCE/SUBJECT:		RUN 04																		
(OPERATION:		METEOROLOGY:																		
(AFTERBURNER PWR(100X RPM)		TEMP = 15 C																		
(SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG																		
(RUNUP IN THE A/F32T-9		REL HUMID = 70 X																		
(MSS MCCONNELL AFB		PAGE 5																		
FREQ		ANGLE (DEGREES)																		
((HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
4	90	91	90	89	84	84	83	86	86	87	87	89	87	85	87	88	87	88	87	88
8	96	96	93	94	93	93	94	96	96	98	96	96	97	96	97	101	98	98	98	98
16	100	99	98	100	101	103	103	103	106	106	102	103	102	105	106	107	105	106	105	106
31.5	99	97	96	98	100	101	101	102	104	102	100	97	101	105	106	105	105	105	105	105
63	100	95	94	90	89	95	97	96	98	98	97	93	95	97	100	102	103	103	103	103
125	92	90	89	80	77	88	89	88	90	91	88	83	84	87	87	89	91	91	91	91
250	86	87	84	75	70	84	81	80	85	87	84	82	83	82	82	87	85	87	85	87
500	81	75	74	68	60	75	74	76	79	81	82	76	82	85	87	91	92	92	92	92
1000	79	71	71	64	56	72	73	75	78	81	81	73	77	81	83	85	85	85	85	85
2000	76	68	68	61	53	69	69	72	74	77	75	71	73	76	77	81	82	82	82	82
4000	70	65	64	57	64	64	66	68	69	68	69	68	69	68	69	73	75	74	74	74
8000	65	64	64	63	65	66	66	66	66	66	66	66	66	66	68	69	73	68	68	68
OVERALL	105	104	103	101	103	104	106	106	107	109	106	106	105	108	109	111	110	110	110	110

** NO DATA COLLECTED.

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APPENDIX H
Far-Field Noise on the
F108-CF-100 Engine

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TABLE 10.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
F108-CF-100 ENGINE IN THE A/F32T-9 NOISE SUPPRESSOR SYSTEM
McCONNELL AFB, KANSAS

Date of Test: 16 April 1986

Time of Test: 1530 Hrs

Engine Operation

Flight Idle	35.4 %RPM
Max Cont Power	88.6 %RPM
Take-Off Power	89.4 %RPM

Meteorology

Temperature	16 Deg C
Bar Pressure	0.727 M Hg
Rel Humidity	47 %
Wind - Speed	7 - 9 Knots
- Direction	120 Deg (True)

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-019-800																	
NOISE SOURCE/SUBJECT:		RUN 05																	
(OPERATION:		METEOROLOGY:																	
(BACKGROUND NOISE		TEMP = 16 C																	
(SINGLE ENGINE GROUND		BAR PRESS = 0.727 M HG																	
(RUNUP IN THE A/F32T-9		REL HUMID = 47 X																	
(MCCONNELL AFB, KANSAS		PAGE 2																	
(FAR FIELD NOISE		PAGE 2																	
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	65	62	67	69	57	64	64	65	75	68	63	58	63	65	68	73	64	62	
4	68	70	71	72	67	69	70	70	73	70	70	70	68	70	71	75	69	68	
5	63	64	68	69	59	65	66	66	71	66	64	61	62	64	65	68	63	62	
6.3	62	62	62	69	59	60	62	61	70	65	63	56	58	62	65	70	63	63	
8	58	61	62	65	58	62	62	60	68	62	57	56	59	61	63	69	60	62	
10	56	59	60	65	61	59	63	63	66	62	59	55	60	61	63	68	62	60	
12.5	55	59	58	64	57	59	61	60	63	60	58	55	56	57	58	64	59	58	
16	56	59	57	62	56	58	60	59	63	59	57	54	56	57	58	64	58	58	
20	57	61	59	62	55	58	60	62	62	59	57	57	57	58	59	63	57	59	
25	57	59	59	62	58	58	60	64	61	59	60	59	59	60	61	61	60	59	
31.5	58	59	60	61	63	60	59	63	62	59	61	61	61	62	63	60	61	59	
40	56	62	63	60	63	58	60	64	62	61	61	60	60	61	63	62	59	60	
50	59	63	57	59	64	60	60	68	60	57	60	60	62	60	59	57	54	60	
63	61	61	58	57	62	61	59	68	63	61	61	60	62	60	59	61	56	61	
80	59	64	53	54	66	64	61	63	64	66	61	59	59	60	60	59	61	66	
100	56	69	54	57	66	64	60	62	68	66	62	65	59	59	58	57	55	57	
125	64	67	63	68	65	70	61	67	71	71	67	70	65	63	62	60	58	59	
160	63	62	59	64	61	57	54	65	61	59	54	57	57	56	55	53	52	53	
200	61	60	55	58	57	54	54	65	60	59	53	54	52	50	48	45	50	49	
250	60	61	60	63	57	58	57	66	62	63	52	50	53	50	48	44	52	49	
315	55	55	53	53	55	57	60	66	66	71	58	58	58	55	51	50	54	52	
400	52	53	50	51	48	49	50	59	53	58	46	46	50	47	44	43	48	47	
500	50	54	52	55	53	53	53	62	54	59	49	48	50	48	46	49	49	49	
630	48	49	48	50	55	57	58	64	57	59	52	52	53	52	51	55	53	53	
800	48	48	48	51	55	56	56	61	56	56	50	49	49	48	48	51	51	49	
1000	48	48	49	53	58	58	58	62	58	58	54	50	50	50	49	53	51	49	
1250	48	48	49	53	60	60	59	62	60	59	56	51	52	51	51	53	51	50	
1600	48	46	46	53	57	60	58	61	57	58	54	48	49	58	47	51	48	47	
2000	47	45	44	49	54	58	56	58	55	56	52	45	48	47	45	49	46	45	
2500	46	47	45	48	52	55	54	55	53	54	49	44	47	45	43	47	43	43	
3150	43	45	43	47	49	50	51	50	51	52	45	41	43	41	39	43	40	41	
4000	40	41	35	43	45	45	47	47	44	50	42	38	41	39	38	39	35	37	
5000	37	40	31	42	40	40	42	43	44	46	39	34	37	35	33	35	30	33	
6300	33	38	28	38	33	35	37	39	41	34	32	33	33	33	33	32	27	29	
8000	31	35	28	34	30	33	33	35	33	35	32	33	33	33	33	32	28	29	
10000	28	31	28	30	29	33	33	34	30	30	33	33	33	33	33	33	29	29	
OVERALL	74	77	76	79	76	76	76	79	81	79	76	75	74	75	76	80	74	74	

NO BACKGROUND CORRECTION APPLIED.

** NO DATA COLLECTED.

TABLE MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-800																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(F108 ENGINE IN THE		TEMP = 16 C																		
(A/F321-9 NSS AT		BAR PRESS = 0.727 M HG																		
(MCCONNELL AFB, KANSAS		REL HUMID = 47 X																		
(FAR FIELD NOISE		PAGE 2																		
FREQ (HZ)		ANGLE (DEGREES)																		
		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	56	59	72	73	74	71	73	63	67	63	64	66	67	68	74	73	76	71	68	
4	69	72	73	73	71	70	70	70	69	69	64	66	67	70	72	76	74	77	73	
5	61	64	73	71	72	68	64	66	64	64	64	65	68	66	71	70	75	70	64	
6.3	70	65	70	67	69	69	66	67	65	61	63	71	63	69	69	69	75	70	63	
8	70	71	73	71	66	68	66	70	66	65	64	67	64	68	67	74	72	70	70	
10	68	68	72	71	69	68	66	66	67	71	71	70	67	69	69	74	70	67	67	
12.5	66	66	69	67	68	68	64	65	63	68	64	66	66	67	68	69	69	65	64	
16	66	67	70	66	64	67	68	64	64	66	66	67	70	70	71	69	64	67	67	
20	69	65	68	67	64	63	65	66	66	67	65	64	66	66	67	68	67	67	67	
25	76	74	74	71	67	66	68	68	68	68	67	66	64	64	64	68	65	65	67	
31.5	76	75	71	67	74	65	70	62	65	64	65	62	64	61	74	64	64	62	62	
40	64	66	64	61	60	60	61	61	63	63	63	63	64	63	64	63	62	62	59	
50	62	62	63	60	63	60	60	59	63	65	65	66	62	60	58	60	60	56	57	
63	63	61	62	59	65	61	61	59	62	65	62	62	62	59	61	58	59	55	57	
80	63	61	61	58	68	57	58	56	60	61	60	58	57	60	56	59	61	58	58	
100	60	57	59	54	69	60	57	64	63	60	60	59	62	58	58	56	54	60	54	
125	56	55	58	57	65	64	63	65	69	65	65	67	63	62	62	56	61	58	58	
160	56	54	59	60	58	60	55	56	58	57	59	59	58	54	53	49	52	52	52	
200	54	54	57	58	58	63	52	57	57	55	55	56	53	51	50	47	47	47	49	
250	50	51	55	51	54	60	55	60	58	56	51	51	46	47	46	45	45	47	47	
315	50	51	50	52	56	69	61	63	58	66	60	58	52	50	51	50	47	47	47	
400	47	44	44	48	49	57	49	53	54	51	46	46	44	44	45	47	42	42	43	
500	46	45	45	45	50	55	50	54	57	52	48	47	47	46	48	49	46	46	46	
630	46	46	48	47	53	57	52	56	60	55	53	50	50	49	51	51	52	50	50	
800	44	44	47	43	53	55	51	54	59	50	49	47	47	46	50	48	48	48	48	
1000	44	43	47	45	55	59	54	55	58	52	52	50	49	49	51	50	52	50	50	
1250	44	42	46	45	54	61	57	57	62	55	55	55	52	52	53	52	55	52	52	
1600	45	42	43	42	53	62	56	54	59	53	54	52	50	50	52	50	52	51	51	
2000	47	44	43	42	50	57	53	52	58	52	52	51	48	47	50	48	49	49	49	
2500	52	49	46	42	48	54	52	50	56	50	52	51	47	46	48	47	47	48	48	
3150	46	43	42	40	45	51	49	48	54	48	49	48	44	43	45	43	43	44	44	
4000	44	40	38	35	43	49	47	46	52	44	46	44	42	41	41	39	39	41	41	
5000	48	42	42	37	39	45	44	43	48	40	42	40	38	37	36	35	35	35	35	
6300	40	35	34	33	34	39	37	44	36	36	34	33	33	33	32	33	31	32	32	
8000	38	34	33	35	33	34	34	35	40	33	33	33	33	33	32	33	32	32	33	
10000	38	33	33	34	34	33	33	34	35	34	33	33	33	33	33	33	33	33	34	
OVERALL	82	81	83	81	81	80	78	78	78	79	79	79	79	78	81	81	84	80	78	

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

MEASURED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-0T9-800																		
NOISE SOURCE/SUBJECT:		RUN 02																		
(OPERATION:		METEOROLOGY:																		
(MAX CONT PWR(88.6X RPM)		TEMP = 16 C																		
(SINGLE ENGINE GROUND		BAR PRESS = 0.727 M HG																		
(RUNUP IN THE A/F321-9		REL HUMID = 47 X																		
(N55 MCCONNELL AF		PAGE 2																		
FREQ		**																		
((HZ)		ANGLE (DEGREES)																		
		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	74	79	74	75	70	70	68	84	86	86	83	82	80	83	84	82	82	81	82	
4	78	80	77	78	72	78	75	83	85	86	83	82	80	82	82	82	85	83	82	
5	77	80	77	80	75	77	74	83	83	83	82	80	78	75	76	79	83	80	81	
6.3	80	80	79	78	72	77	77	80	80	79	78	74	74	74	77	78	78	78	80	
8	85	84	82	78	80	81	81	76	76	76	76	73	73	73	74	79	79	78	79	
10	86	84	85	82	83	81	83	74	74	78	74	68	69	68	71	74	74	75	77	
12.5	84	84	83	83	81	82	83	68	69	73	71	67	69	67	69	72	72	74	74	
16	83	86	84	83	84	83	85	75	74	74	74	63	63	63	64	67	67	75	75	
20	84	81	80	81	83	83	84	77	75	74	74	63	63	63	64	67	67	75	75	
25	87	86	86	84	81	82	84	73	73	74	74	63	63	63	64	67	67	75	75	
31.5	88	87	83	83	79	81	85	72	72	72	72	68	68	69	67	68	69	69	74	
40	87	85	82	79	77	79	83	68	68	68	68	63	63	63	63	64	67	72	71	
50	83	82	82	77	72	77	80	62	62	62	62	62	62	62	62	62	62	62	62	
63	85	82	78	74	73	77	78	61	62	67	64	60	58	55	61	58	62	66	62	
80	80	80	76	70	68	73	77	57	57	57	57	55	52	51	61	58	64	63	64	
100	75	76	74	66	65	74	73	56	56	59	64	61	62	69	67	62	62	66	62	
125	73	74	73	65	78	72	72	55	57	59	64	61	62	69	67	62	62	66	62	
160	72	72	71	63	63	70	67	55	57	59	64	61	62	69	67	62	62	66	62	
200	69	71	67	62	62	68	62	55	57	59	64	61	62	69	67	62	62	66	62	
250	66	65	61	60	59	64	61	55	57	59	64	61	62	69	67	62	62	66	62	
315	61	62	59	57	59	64	61	55	57	59	64	61	62	69	67	62	62	66	62	
400	58	59	55	55	51	57	56	55	57	59	64	61	62	69	67	62	62	66	62	
500	56	57	54	52	51	53	55	55	57	59	64	61	62	69	67	62	62	66	62	
630	55	57	55	52	59	52	57	55	57	59	64	61	62	69	67	62	62	66	62	
800	55	56	54	50	58	52	57	55	57	59	64	61	62	69	67	62	62	66	62	
1000	56	56	56	50	61	53	59	55	57	59	64	61	62	69	67	62	62	66	62	
1250	54	53	54	48	61	52	60	61	61	60	58	58	55	60	59	62	61	61	58	
1600	54	52	52	47	58	51	59	60	60	59	56	58	54	57	57	61	58	56	56	
2000	55	54	52	48	55	50	56	57	58	58	54	56	52	54	55	59	57	56	54	
2500	56	54	52	51	53	48	54	54	55	58	54	52	52	51	51	53	58	55	54	
3150	59	58	56	54	51	48	54	53	53	54	49	48	47	47	49	55	55	53	52	
4000	56	55	53	51	48	45	51	50	50	51	46	45	44	44	46	52	50	50	50	
5000	53	52	51	48	44	43	47	46	46	47	41	40	41	41	43	49	47	47	47	
6300	52	50	49	46	38	39	44	42	42	42	43	40	41	40	41	43	41	41	43	
8000	48	47	46	42	37	40	42	38	38	41	40	40	40	40	41	42	41	41	42	
10000	45	44	44	38	38	38	38	38	38	41	41	41	41	41	41	41	41	41	41	
OVERALL	96	95	94	92	91	92	93	89	90	91	88	86	85	87	88	89	88	89	88	

NO BACKGROUND CORRECTION APPLIED.
 ** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE = 100 METERS		TEST DP-019-800																		
		RUN 05																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
F108 ENGINE IN THE		TEMP : 15 C																		
A/F32T-9 N55 AT		BAR PRESS : 0.760 M HG																		
MCCONNELL AFB, KANSAS		REL HUMID : 70 %																		
FAR FIELD NOISE		PAGE 3																		
		OPERATION:																		
		BACKGROUND NOISE																		
		SINGLE ENGINE GROUND																		
		RUNUP IN THE A/F32T-9																		
		N55 MCCONNELL AFB																		
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
																				**
3.15	65	62	67	69	57	64	64	65	75	68	63	58	63	65	68	73	64	62		
4	68	70	71	72	67	69	70	70	73	70	70	70	68	70	71	75	69	68		
5	63	65	68	69	59	66	66	67	71	66	64	61	62	64	65	68	64	63		
6.3	63	62	62	70	59	60	62	61	70	65	64	57	59	62	65	70	63	63		
8	58	61	63	65	59	62	63	60	68	62	57	56	60	61	63	69	61	63		
10	56	59	60	65	61	59	63	63	66	62	59	55	60	61	63	68	62	60		
12.5	55	59	58	64	57	59	61	60	63	60	58	55	56	57	58	64	59	58		
16	56	59	57	62	56	58	60	59	63	59	57	54	56	57	58	64	58	58		
20	58	61	59	62	55	58	60	62	63	59	58	58	57	58	59	64	59	58		
25	57	59	59	62	59	59	61	64	61	59	60	59	59	60	61	60	60	60		
31.5	59	59	61	61	63	60	59	63	62	59	61	61	61	62	63	60	61	59		
40	56	62	63	60	63	58	60	64	62	61	61	60	60	61	63	62	59	60		
50	59	63	57	59	64	60	60	68	60	57	60	60	62	61	59	57	54	60		
63	61	61	58	57	62	61	59	68	63	61	61	60	62	60	59	61	56	61		
80	59	64	54	54	67	64	61	63	64	67	62	60	59	60	61	59	62	67		
100	56	69	54	57	66	64	60	62	68	66	62	65	59	59	58	57	55	57		
125	64	67	64	69	65	70	61	67	71	71	67	70	65	63	62	60	58	59		
160	63	62	59	65	61	57	54	66	61	59	55	57	58	56	55	53	52	53		
200	61	60	55	58	57	54	54	65	60	59	53	54	52	50	48	45	50	49		
250	60	61	60	63	57	58	57	66	62	63	52	50	53	51	48	44	52	49		
315	55	55	53	53	55	57	60	66	66	72	58	58	58	55	51	50	54	52		
400	53	53	51	52	48	49	50	60	54	59	46	46	50	48	45	43	48	47		
500	50	54	52	55	53	53	53	63	54	59	49	48	51	49	47	50	49	49		
630	48	49	48	50	56	57	58	64	57	60	53	52	53	52	51	56	53	53		
800	48	49	48	51	56	56	57	61	56	56	50	49	49	48	48	52	49	49		
1000	48	48	50	53	58	59	58	63	58	58	54	50	50	50	50	54	51	49		
1250	48	48	49	53	60	61	60	63	60	59	56	52	52	52	51	53	51	50		
1600	48	47	46	53	57	61	59	62	58	59	55	49	50	59	48	51	49	47		
2000	47	45	44	49	55	58	56	58	56	56	52	46	49	47	45	50	46	45		
2500	47	47	46	49	53	55	54	56	54	54	49	44	48	43	47	44	44	44		
3150	44	46	43	48	50	51	52	51	51	53	45	42	44	42	40	44	41	42		
4000	41	43	36	45	46	46	48	48	50	51	43	39	42	40	39	40	36	38		
5000	39	41	33	43	41	42	44	44	46	47	40	36	39	37	35	36	32	34		
6300	35	40	30	40	35	37	39	41	41	43	36	34	35	35	34	34	29	31		
8000	34	38	31	37	33	36	38	38	36	38	36	35	36	36	36	35	31	32		
10000	32	35	32	34	33	37	37	38	34	34	37	37	37	37	37	37	33	33		
OVERALL	75	77	76	79	76	77	76	79	81	79	76	75	74	75	76	80	75	75		

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-0T9-800																	
NOISE SOURCE/SUBJECT:		OPERATION:																	
F108 ENGINE IN THE		FLIGHT IDLE (35.4X RPM)																	
A/F32T-9 NSS AT		SINGLE ENGINE GROUND																	
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9																	
FAR FIELD NOISE		NSS MCCONNELL AFB																	
		METEOROLOGY:																	
		TEMP 15 C																	
		BAR PRESS = 0.760 M HG																	
		REL HUMID = 70 X																	
		PAGE 3																	
FREQ		ANGLE (DEGREES)																	
(HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	56	59	73	74	71	73	63	67	63	64	66	67	68	74	73	76	71	68	
4	69	72	73	73	73	71	70	70	69	70	71	70	72	76	74	77	73	70	
5	62	64	73	72	72	68	64	66	65	64	65	69	66	71	70	76	70	64	
6.3	70	65	70	68	69	67	67	67	65	61	64	71	63	69	69	75	70	64	
8	70	71	73	71	66	68	67	70	67	65	64	68	65	68	67	74	72	70	
10	68	68	72	71	69	68	66	66	67	71	71	70	67	69	69	74	70	67	
12.5	66	66	69	67	68	68	64	65	63	68	64	66	66	67	68	69	65	64	
16	67	67	70	66	64	67	68	64	64	66	66	67	70	70	71	69	64	67	
20	69	65	68	67	64	63	65	66	66	67	65	64	66	66	67	68	67	67	
25	76	74	71	67	66	68	68	68	68	68	66	64	64	64	68	65	65	67	
31.5	77	75	71	67	74	65	70	62	65	64	65	62	64	61	74	64	64	62	
40	64	66	64	61	60	60	61	61	63	63	63	64	63	64	63	62	62	59	
50	63	62	63	60	63	60	60	59	63	65	66	62	60	58	58	60	56	57	
63	63	62	62	60	65	61	61	59	62	65	62	62	59	61	58	59	55	57	
80	63	61	61	58	68	58	58	57	60	61	60	59	58	60	57	59	61	58	
100	60	58	60	54	69	60	57	64	63	60	59	62	58	58	56	54	60	54	
125	56	55	58	57	55	64	63	65	69	65	65	67	63	62	62	56	61	58	
160	56	54	59	60	58	60	55	56	58	58	59	59	58	54	53	50	52	53	
200	54	54	57	58	58	63	52	57	57	55	55	56	53	51	50	47	47	49	
250	50	51	55	51	54	60	55	60	58	56	51	51	46	47	46	45	45	47	
315	50	51	50	53	56	70	61	63	59	66	60	58	52	51	51	50	47	47	
400	47	45	44	48	49	57	50	53	54	51	46	46	44	44	45	47	42	43	
500	46	46	45	46	50	56	50	54	58	52	49	47	47	46	48	49	47	46	
630	46	46	48	47	54	57	52	56	60	56	53	50	51	50	51	52	50	50	
800	44	44	47	43	53	55	52	54	59	50	49	47	48	46	50	48	48	48	
1000	44	43	47	45	56	59	55	55	59	52	53	51	50	49	51	50	52	50	
1250	44	42	46	45	54	61	57	57	62	55	55	52	52	52	53	53	56	53	
1600	45	42	43	42	54	62	57	55	60	54	54	53	51	50	53	51	53	51	
2000	47	45	43	42	50	57	54	52	59	53	51	49	48	51	49	50	49	48	
2500	52	49	47	43	48	54	52	51	57	51	52	51	48	47	49	47	48	48	
3150	47	43	42	41	46	51	50	49	55	48	49	48	45	44	45	44	43	45	
4000	45	41	40	37	44	50	48	47	53	45	47	45	43	42	42	40	42	40	
5000	49	44	43	39	41	47	45	44	49	42	44	41	39	38	37	36	36	36	
6300	43	37	36	35	36	41	39	39	46	38	38	36	35	35	34	35	33	34	
8000	41	37	36	38	36	37	37	38	43	36	36	36	36	36	35	36	35	36	
10000	42	37	37	38	38	37	37	38	39	38	37	37	37	37	37	37	37	38	
OVERALL	82	81	83	81	82	80	78	79	79	79	79	79	78	81	82	84	80	78	

** NO DATA COLLECTED

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-019-000																		
NOISE SOURCE/SUBJECT:		OPERATION:									METEOROLOGY:									
F108 ENGINE IN THE		MAX CONT PWR(88.62 RPM)									TEMP :									
A/F32T-9 MSS AT		SINGLE ENGINE GROUND									BAR PRESS :									
MCCONNELL AFB, KANSAS		RUNUP IN THE A/F32T-9									REL HUMID :									
FAW FIELD NOISE		MSS MCCONNELL AFB									70 x									
FREQ		ANGLE (DEGREES)																		
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	74	79	74	74	75	70	70	68	68	66	66	63	62	60	63	64	62	61	62	61
4	78	80	77	78	72	78	75	75	75	83	85	83	82	80	83	83	85	83	82	82
5	78	80	77	81	75	77	75	75	75	83	83	83	82	80	78	75	79	83	80	81
6.3	80	80	79	79	72	78	77	77	77	79	78	77	75	74	77	78	78	79	79	80
8	85	84	82	78	80	81	81	81	81	80	79	76	76	73	73	74	74	79	78	80
10	86	84	85	82	83	81	83	83	83	76	75	74	74	69	69	68	71	74	75	77
12.5	84	84	83	83	81	82	83	83	83	73	73	73	73	73	73	74	79	78	79	80
16	83	86	84	84	84	84	83	85	85	70	70	70	70	70	70	74	79	78	79	80
20	84	82	81	81	84	83	85	84	84	68	68	68	68	68	68	71	74	75	75	77
25	87	86	86	84	82	82	84	84	84	66	65	65	65	65	65	69	67	69	72	74
31.5	88	87	84	83	79	81	85	85	85	72	72	72	72	72	69	67	68	69	74	73
40	87	85	82	77	79	79	83	83	83	63	63	63	63	63	66	69	67	63	61	63
50	83	82	82	77	73	78	80	80	80	62	62	62	62	62	64	65	63	60	58	62
63	85	82	78	75	73	77	78	78	78	62	62	62	62	62	67	64	60	58	55	61
80	80	80	76	70	68	73	77	77	75	58	58	58	58	58	62	59	67	63	57	56
100	75	77	74	66	65	74	73	73	73	56	56	56	56	56	57	60	55	53	51	61
125	73	74	73	65	78	72	72	72	72	55	55	55	55	55	54	53	62	58	54	62
160	72	73	71	63	63	70	67	67	63	57	57	57	57	57	61	62	61	63	64	67
200	70	71	67	62	62	68	62	62	63	54	54	54	54	54	58	56	62	61	65	71
250	66	65	62	60	59	64	61	61	62	52	52	52	52	52	56	60	59	62	66	62
315	61	62	59	57	59	62	61	62	62	51	51	51	51	51	55	59	62	66	66	62
400	59	60	55	55	51	57	56	56	57	48	48	48	48	48	52	56	60	62	62	61
500	56	57	54	52	52	54	55	55	57	46	46	46	46	46	50	54	58	64	64	64
630	55	57	55	52	52	59	52	58	58	45	45	45	45	45	49	54	59	63	63	62
800	55	56	54	50	58	53	57	58	57	44	44	44	44	44	48	53	58	63	63	62
1000	56	56	56	50	62	53	60	61	61	43	43	43	43	43	47	52	57	62	62	61
1250	54	53	54	48	61	52	61	61	62	42	42	42	42	42	46	51	56	61	61	61
1600	55	53	52	48	59	51	60	60	61	41	41	41	41	41	45	50	55	60	60	60
2000	55	54	52	48	56	50	57	57	58	40	40	40	40	40	44	49	54	59	59	57
2500	56	55	53	51	54	49	55	55	56	39	39	39	39	39	43	48	53	58	56	55
3150	60	58	56	54	52	48	55	54	54	38	38	38	38	38	42	47	52	57	56	55
4000	57	56	54	52	49	46	52	51	51	37	37	37	37	37	41	46	51	56	55	53
5000	55	53	52	49	45	44	49	47	48	36	36	36	36	36	40	45	50	55	54	51
6300	54	52	51	48	41	42	46	44	44	35	35	35	35	35	39	44	49	54	53	49
8000	51	50	49	45	40	43	44	44	41	34	34	34	34	34	38	43	48	53	51	47
10000	49	48	48	42	42	42	42	42	41	33	33	33	33	33	37	42	47	52	51	45
OVERALL	96	95	94	92	92	92	94	94	89	91	88	87	85	87	88	90	90	90	89	89

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																	
1/3 OCTAVE BAND		OMEGA 1.5																	
DISTANCE = 100 METERS		TEST DP-OT9-000																	
NOISE SOURCE/SUBJECT:		RUN 03																	
F100 ENGINE IN THE		METEOROLOGY:																	
A/F32T-9 NSS AT		TEMP = 15 C																	
MCCONNELL AFB-KANSAS		BAR PRESS = 0.760 M HG																	
FAR FIELD NOISE		REL HUMID = 70 %																	
		PAGE 3																	
		**																	
FREQ (HZ)	0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
3.15	74	73	74	81	69	71	72	72	76	69	70	70	73	73	76	77	77	76	75
4	79	79	77	78	76	76	76	74	80	75	79	77	77	75	84	79	79	74	76
5	80	77	77	78	78	76	78	77	81	75	76	75	72	73	90	79	79	75	77
6.3	82	82	81	79	74	76	80	78	79	77	76	79	77	79	80	82	81	82	81
8	83	85	80	79	81	78	82	81	82	84	83	80	82	81	83	87	84	84	84
10	82	86	84	81	81	80	81	84	84	85	85	82	83	83	81	88	85	83	83
12.5	83	87	83	83	82	82	85	88	86	86	86	86	86	86	87	88	88	86	86
16	85	87	83	80	84	84	87	89	88	88	86	85	82	90	88	89	86	89	89
20	84	82	82	79	84	84	83	84	85	85	82	84	82	85	84	82	87	87	87
25	88	86	84	82	82	82	84	85	85	86	83	82	78	81	83	81	81	83	83
31.5	88	87	84	81	82	84	84	84	85	87	82	80	77	81	82	85	84	82	82
40	86	87	82	78	78	80	83	83	82	83	79	77	75	77	80	84	79	79	83
50	84	83	81	77	74	78	79	81	80	79	77	75	75	77	79	80	81	81	81
63	86	82	80	74	74	79	79	78	79	78	77	73	74	74	77	80	79	80	79
80	81	81	78	71	70	75	79	76	76	79	75	70	69	70	73	76	76	78	78
100	75	77	77	69	66	75	75	71	71	75	71	67	68	69	71	74	75	75	75
125	73	75	76	68	66	75	73	70	74	70	70	68	66	68	71	72	75	75	74
160	73	73	73	67	61	71	70	65	66	69	68	63	60	64	66	70	74	73	74
200	71	72	69	64	59	70	68	63	64	65	64	61	58	61	64	66	72	71	71
250	68	67	66	61	56	67	65	62	64	64	61	59	55	58	60	63	66	67	67
315	65	64	63	60	58	65	63	66	72	68	60	56	58	57	60	63	63	63	63
400	63	61	60	58	53	61	58	58	61	61	55	52	51	59	62	66	66	64	64
500	62	60	58	57	57	59	58	57	60	61	55	55	52	60	61	66	63	61	61
630	62	59	59	57	61	61	60	60	63	63	56	58	53	60	61	65	63	63	63
800	64	59	59	57	58	59	57	58	59	60	55	55	53	59	59	64	65	64	64
1000	63	59	59	56	61	61	59	61	60	60	58	56	55	60	64	63	63	63	63
1250	61	58	58	56	62	62	61	62	61	60	60	55	56	61	60	63	62	61	61
1600	60	57	58	54	60	59	60	59	60	60	56	54	59	59	62	60	60	60	60
2000	60	57	57	54	56	56	56	58	57	59	58	57	52	57	57	61	60	59	59
2500	59	57	56	53	53	54	55	56	57	58	57	54	51	56	56	59	58	58	58
3150	61	59	58	53	51	52	56	56	55	56	54	50	48	54	53	57	55	55	55
4000	58	57	56	49	48	50	53	54	53	54	50	47	46	50	51	55	54	54	54
5000	55	54	54	48	44	47	50	51	50	52	47	45	44	48	49	54	52	52	52
6300	54	53	53	47	40	43	48	47	48	45	43	43	43	45	46	50	49	49	49
8000	51	50	50	46	41	41	47	47	46	45	45	45	45	45	46	48	47	47	47
10000	48	48	48	42	42	42	47	47	47	47	47	47	47	47	47	47	47	47	47
OVERALL	96	96	94	91	92	92	94	95	95	95	94	93	92	94	95	96	95	95	95

** NO DATA COLLECTED

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)

104 DISTANCE : 100 METERS IDENTIFICATION:
 NOISE SOURCE/SUBJECT: OPERATION: METEOROLOGY: OMEGA 1.5
 F108 ENGINE IN THE (BACKGROUND NOISE) TEST DP-019-800
 A/F32T-9 NSS AT (SINGLE ENGINE GROUND) TEMP 15 C RUN 05
 MCCONNELL AFB, KANSAS (RUMUP IN THE A/F32T-9) BAR PRESS : 0.760 M HG 11 MAR 87
 FAR FIELD NOISE (NSS MCCONNELL AFB) REL HUMID : 70 X) PAGE 4

HAZARD/PROTECTION ANGLE (DEGREES) **
 0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR
 A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR
 LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)
 NO PROTECTION

OASLC	71	74	70	73	74	74	71	77	76	77	72	73	71	70	69	69	68	70
OASLA	60	61	59	63	66	68	67	71	68	70	63	61	61	62	58	61	60	59
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440

COMMUNICATION
 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)
 PSIL 52 53 51 55 58 60 60 63 59 61 55 51 53 53 50 54 51 51

ANNNOYANCE
 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PMDB)
 TONE CORRECTION (C IN DB)

PNLT	74	76	73	78	78	82	80	84	82	85	77	76	75	79	71	74	72	72
C	1	1	1	1	0	2	1	1	1	2	2	2	1	3	1	2	1	1

** NO DATA COLLECTED.

TABLE MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)																		
												IDENTIFICATION:						
10.4	DISTANCE = 100 METERS											OMEGA 1.5						
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:												TEST DP-019-800						
F108 ENGINE IN THE (MAX CONT PWR(88.6X RPM)) TEMP = 15 C												RUN 02						
A/F32T-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS = 0.760 M HG												11 MAR 87						
MCCONNELL AFB, KANSAS (RUNUP IN THE A/F32T-9) REL HUMID = 70 X												PAGE 4						
FAR FIELD NOISE (NSS MCCONNELL AFB)																		
ANGLE (DEGREES)												**						
0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
HAZARD/PROTECTION																		
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR																		
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR																		
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)																		
NO PROTECTION																		
OASLC	92	91	89	86	85	86	89	87	88	88	86	84	82	84	85	87	86	87
OASLA	70	70	68	64	69	66	69	69	70	70	67	67	64	69	68	72	72	71
T	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
COMMUNICATION																		
PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)																		
PSIL	61	61	59	56	60	56	61	61	61	62	59	58	57	61	60	65	63	62
ANNOYANCE																		
PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT IN PNDB)																		
TONE CORRECTION (C IN DB)																		
PNLT	88	86	84	80	86	82	84	83	85	86	81	80	78	81	81	85	85	84
C	0	0	0	0	2	0	0	0	1	1	1	1	1	0	0	0	0	0

** NO DATA COLLECTED.

MEASURES OF HUMAN NOISE EXPOSURE (AFR 161-35, APRIL 82)		IDENTIFICATION:	
104	DISTANCE : 100 METERS		OMEGA 1.5
			TEST DP-019-800
			RUN 03
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGICAL: ()			
	F108 ENGINE IN THE (TAKE-OFF PWR (89.4X RPM)) TEMP : 15 C		
	A/F321-9 NSS AT (SINGLE ENGINE GROUND) BAR PRESS : 0.760 M HG		11 MAR 87
	MCCONNELL AFB, KANSAS (RUNUP IN THE A/F321-9) REL HUMID : 70 X		
	FAR FIELD NOISE (NSS MCCONNELL AFB)		PAGE 4

	0 350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180	ANGLE (DEGREES)	**
HAZARD/PROTECTION			
C-WEIGHTED OVERALL SOUND LEVEL (OASLC IN DBC) AT EAR			
A-WEIGHTED OVERALL SOUND LEVEL (OASLA IN DBA) AT EAR			
LIMITING TIME (T IN MINUTES) FOR TOTAL DAILY EXPOSURE (AFR 161-35, TABLE 5, APRIL 82)			
	NO PROTECTION		
	OASLC 92 91 89 85 85 80 89 89 89 90 87 85 84 87 88 89		89 89
	OASLA 73 71 71 67 69 71 70 70 72 71 69 66 64 69 70 73		73 72
	T 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440		1440 1440
COMMUNICATION			
	PREFERRED SPEECH INTERFERENCE LEVEL (PSIL IN DB)		
	PSIL 66 63 62 59 61 62 62 63 63 63 61 58 56 62 62 66		65 64
ANNNOYANCE			
	PERCEIVED NOISE LEVEL, TONE CORRECTED (PMLT IN PHNDB)		
	TONE CORRECTION (C IN DB)		
	PMLT 90 88 87 81 82 85 86 85 88 87 83 81 79 83 83 87		87 87
	C 0 0 0 0 1 0 1 1 2 1 0 1 1 0 0 0		0 0

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND		OMEGA 1.5																		
DISTANCE : 100 METERS		TEST DP-0T9-800																		
NOISE SOURCE/SUBJECT:		RUN 01																		
F100 ENGINE IN THE		METEOROLOGY:																		
A/F32T-9 NSS AT		TEMP = 15 C																		
MCCONNELL AFB, KANSAS		BAR PRESS = 0.760 M HG																		
FAR FIELD NOISE		REL HUMID = 70 %																		
		PAGE 5																		
		**																		
FREQ	ANGLE (DEGREES)																			
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4	70	73	78	78	78	77	76	72	73	71	72	73	74	75	79	78	81			
8	75	74	77	75	73	73	73	71	73	71	72	73	75	70	74	73	79			
16	72	71	74	72	71	71	71	70	69	72	70	71	72	73	74	73	71			
31.5	80	78	76	73	75	69	72	69	71	70	70	69	68	68	75	69				
63	68	66	67	64	71	65	65	63	67	69	68	66	64	65	62	64				
125	63	61	64	62	71	67	65	68	70	67	67	69	65	64	63	59				
250	57	57	60	60	61	71	63	65	63	67	62	61	56	55	54	53				
500	51	50	51	52	56	61	55	59	63	58	55	53	52	53	54	53				
1000	49	48	51	49	59	64	60	60	65	58	58	57	55	54	56	55				
2000	54	51	50	47	56	64	59	58	63	57	58	57	54	53	56	54				
4000	52	48	47	44	49	54	53	52	58	51	52	51	48	47	48	46				
8000	47	42	41	42	41	43	43	43	48	42	42	41	41	41	41	41				
OVERALL	82	81	83	81	82	80	78	79	79	79	79	79	79	78	81	82	84			

** NO DATA COLLECTED.

TABLE SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
OCTAVE BAND	DISTANCE : 100 METERS																			
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(F108 ENGINE IN THE)		(OPERATION:)																		
(A/F32T-9 NSS AT)		(MAX CONT PWR(88.6X RPM))																		
(MCCONNELL AFB, KANSAS)		(SINGLE ENGINE GROUND)																		
(FAR FIELD NOISE)		(RUNUP IN THE A/F32T-9)																		
		(NSS MCCONNELL AFB)																		
FREQ	ANGLE (DEGREES)	**																		
(HZ)		0	350	340	330	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
4		82	85	81	83	78	81	78												
8		89	88	88	85	85	85	86												
16		89	89	87	88	88	87	89												
31.5		92	91	89	87	84	86	89												
63		88	87	84	80	77	81	83	88	90	87	86	84	86	87	88				86
125		78	80	78	70	79	77	76	72	75	76	74	72	71	71	73	75			82
250		72	73	69	65	65	70	66	67	72	71	67	63	62	66	64	68			78
500		62	63	60	58	60	60	61	63	62	65	61	60	59	66	63	69			73
1000		60	60	60	54	65	57	64	65	64	64	62	62	59	65	63	67			68
2000		60	59	57	54	61	55	62	63	63	60	60	61	57	60	61	64			67
4000		62	61	59	57	54	51	57	56	56	57	52	51	51	51	53	58			62
8000		57	55	54	49	44	46	49	46	46	50	48	48	48	49	49	51			56
OVERALL		96	95	94	92	92	92	94	89	91	88	87	85	87	88	90				88

** NO DATA COLLECTED.

SOUND LEVEL (DB)		IDENTIFICATION:	
100 METERS		OMEGA 1.5	
SUBJECT:		TEST DP-019-800	
OPERATION:		RUN 03	
TAKE-OFF PMR (89.4X RPM)		TEMP = 15 C	
SINGLE ENGINE GROUND		BAR PRESS = 0.760 M HG	
RUNUP IN THE A/F32T-9		REL HUMID = 70 X	
MSS MCCONNELL AFB		11 MAR 87	
MSS MCCONNELL AFB		PAGE 5	
FREQ (HZ)	ANGLE (DEGREES)	**	
0	350 340 330 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180		
4	83 82 81 84 80 80 81 80 84 79 81 79 80 79 86 83 80 81		
8	87 89 87 85 84 83 86 87 87 88 87 85 86 86 86 91 88 88		
16	89 91 88 86 88 88 90 92 91 91 90 90 89 92 92 92 92 92		
31.5	92 91 88 86 86 87 89 89 89 89 90 86 85 81 85 88 87 87		
63	89 87 85 79 78 83 84 84 84 83 81 78 78 79 82 84 84 85		
125	79 80 81 73 70 79 78 74 76 77 75 71 70 72 75 77 80 79		
250	74 74 71 67 63 73 70 69 74 71 67 64 62 64 67 69 74 73		
500	67 65 64 62 63 65 64 63 66 66 60 60 57 65 66 70 69 68		
1000	68 63 63 61 65 66 64 65 65 65 63 60 59 65 64 68 68 68		
2000	64 62 62 59 62 62 62 63 63 63 63 60 57 63 62 66 64 64		
4000	63 62 61 55 53 55 58 59 58 59 56 53 51 56 56 60 59 59		
8000	56 55 55 51 44 47 52 52 52 52 50 50 50 51 51 53 52 53		
OVERALL	96 96 94 91 92 92 94 95 95 94 93 92 94 95 96 95 95 95		

** NO DATA COLLECTED.

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