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ADVANCED TECHNOLOGY FAN. VOLUME 5: FAN  
ACOUSTICS. SECTION 2: ONE-THIRD OCTAVE  
DATA TABULATIONS AND SELECTED NARROWBAND  
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**SINGLE STAGE, LOW NOISE,  
ADVANCED TECHNOLOGY FAN  
VOLUME V FAN ACOUSTICS**

Section 2: 1/3-Octave Data Tabulations and Selected Narrowband Traces

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PREPARED FOR

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

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16. Abstract The raw-acoustic data corrected to standard day, from acoustic tests performed on a 0.508-scale fan vehicle of a 111,300 newton (25,000 pound) thrust, full-size engine, which would have application on an advanced transport aircraft, is presented. The single-stage advanced technology fan was designed to a pressure ratio of 1.8 at a tip speed of 503 m/sec (1650 ft/sec) to achieve the desired pressure ratio in a single-stage fan with low radius ratio (0.38), and to maintain adequate stall margin. The fan has 44 tip-shrouded rotor blades and 90 outlet guide vanes. The two basic approaches taken in the acoustic design were: 1) minimization of noise at the source, and 2) suppression of the generated noise in the inlet and bypass exhaust duct. Suppression of the generated noise was accomplished in the inlet through use of the "hybrid" concept (wall acoustic treatment plus airflow acceleration suppression) and in the exhaust duct with extensive acoustic treatment including a splitter. The goal of the design was attainment of twenty effective perceived noise decibels (20 EPNdB) below current Federal Air Regulation noise standards for a full-scale fan at the takeoff, cutback, and approach conditions. The suppression goal of FAR 36-20 was not reached, but improvements in the technology of both front and aft fan-noise suppression were realized. The total fan noise resulted in EPNL suppression below FAR 36 of 10.6 ΔEPNdB for takeoff, 6.7 ΔEPNdB for cutback and 7.1 ΔEPNdB for approach.  The suppressed fan noise was shown to be consistent with the proposed federal regulation on aircraft noise (FAR 36 - XYZ).  This report entitled, "Volume V - Fan Acoustics", is one of two in a series of final analysis reports. The other report is entitled, "Volume IV - Fan Aerodynamics".  Volume V is bound in two covers: Section 1 - Results and Analysis Section 2 - Tabulations and Selected Narrowband Traces  Three design reports precede this series of final analysis reports. They are: Volume I - Aerodynamic Design, Volume II - Structural Design, and Volume III - Acoustic Design.					
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## SECTION I

### SUMMARY

A high speed, low noise, high bypass ratio, single-stage research fan with a variable-geometry inlet was designed, fabricated and tested by the General Electric Company under the sponsorship of NASA (Contract No. NAS3-16813). This report, entitled Volume V - Fan Acoustics, is one of two in a series of final analysis reports. Three design reports precede the series of final analysis reports. They are: Volume I - Aerodynamic Design, Volume II - Structural Design and Volume III - Acoustic Design, which are references 1, 2 and 3 respectively. The other final analysis report in the series, Volume IV - Fan Aerodynamics is reference 4. The present volume is bound in two separate covers:

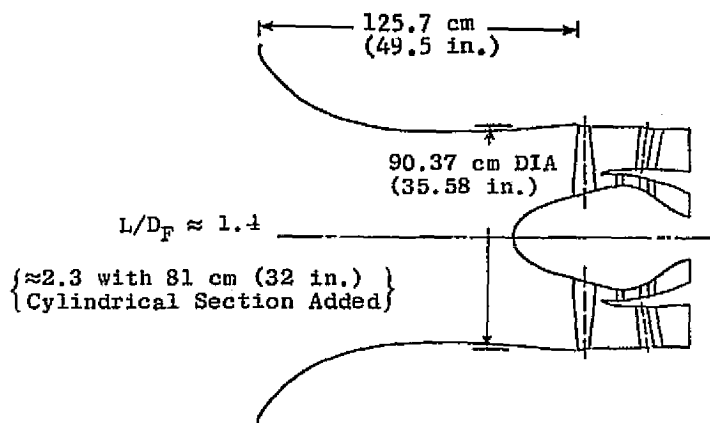
Section 1 - Results and Analysis

Section 2 - One-Third Octave Data Tabulations and Selected Narrow-Band Traces

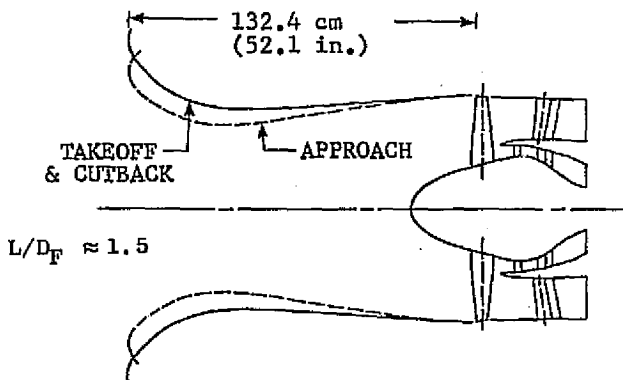
For convenient reference, the remaining SUMMARY and most of the following INTRODUCTION is repeated from Section 1 - Results and Analysis.

The 90.37 cm (35.58 in.) diameter tip-shrouded fan was designed to a bypass pressure ratio of 1.8, and a corrected airflow of 117.9 kg/sec (259.9 lbm/sec) at a tip speed of 503 m/sec (1650 ft/sec). The fan was designed to a stall margin goal at constant speed of 13% and an objective adiabatic efficiency of 84.0%, with a peak efficiency objective of 85%. Several low fan source noise features were included in the design, such as a vane/blade ratio of 2.05, a rotor/stator spacing of 2.06 (rotor tip chords) and a fan blade designed for a swallowed shock at takeoff conditions.

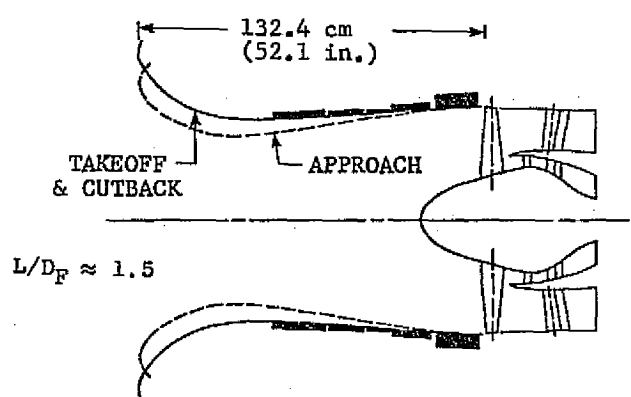
Two separate series of tests were conducted on the advanced technology fan vehicle at General Electric's Peebles, Ohio, Site IV-B outdoor facility. The rear-shaft drive test series provided the evaluation of front-quadrant acoustic performance, as well as fan and inlet aerodynamic performance. The inlet configurations tested are shown in the schematic on Page 2. The major portion of the fan and inlet aerodynamic performance tests were conducted with a long ( $L/D_F = 2.3$ ) bellmouth inlet which contained an extra instrumentation section (not shown) ahead of the fan. This was followed by a brief diagnostic test with a shorter ( $L/D_F = 1.4$ ) bellmouth inlet, which also served as the reference, or baseline, acoustic inlet. The inlet noise suppression system employed a hybrid inlet, which combined an adjustable-geometry cowl, capable of generating high throat Mach numbers (design  $M_{TH} = 0.79$ ) at all critical noise operating points, with wall acoustic treatment. The wall treatment panels were replaceable with hardwall panels so that the effects of the treatment on noise suppression and inlet aerodynamic performance could be isolated.



BELLMOUTH INLET, ACOUSTIC BASELINE



ACCELERATING INLET



HYBRID INLET  
(ACCELERATING INLET + WALL TREATMENT)

FAN INLET CONFIGURATIONS FOR REAR-DRIVE TESTS

The second series of tests involved driving the fan vehicle from a front shaft for the evaluation of aft-propagating fan noise and bypass duct aerodynamic performance. The configurations tested included a hardwall bypass duct without a splitter and a fully treated duct with a midstream acoustic splitter. They are shown schematically on page 4.

The design point static acoustic results from the individual spectra of both front-drive (aft noise) and rear-drive (front noise) tests were scaled and extrapolated to the projected takeoff, cutback, and approach flight conditions for a Boeing 767-640 trijet with a takeoff gross weight of 137,892 kg. (The preliminary design of this  $0.85 \leq M_0 \leq 0.90$  Boeing airplane was the basis for earlier engine cycle-selection studies used to determine the fan design parameters and overall system noise goals.)

#### A. Front-Quadrant Acoustic Performance

The isolated forward fan noise with the hybrid inlet at an average throat Mach number of 0.79 was 16.3  $\Delta$ EPNdB at takeoff, 9.6  $\Delta$ EPNdB at cutback, and 9.1  $\Delta$ EPNdB at approach below the current FAR 36 aircraft noise regulation level. This was accomplished with a static total pressure recovery in the inlet of 98.9% at the takeoff and cutback conditions and 98.2% at approach, and with steady-state total pressure distortion levels below 10%. Further noise reductions could be obtained by increasing the throat Mach number to 0.84 at takeoff and cutback and 0.81 at approach without exceeding 10% pressure distortion, and without significant reductions in pressure recovery.

#### B. Aft-Quadrant Acoustic Performance

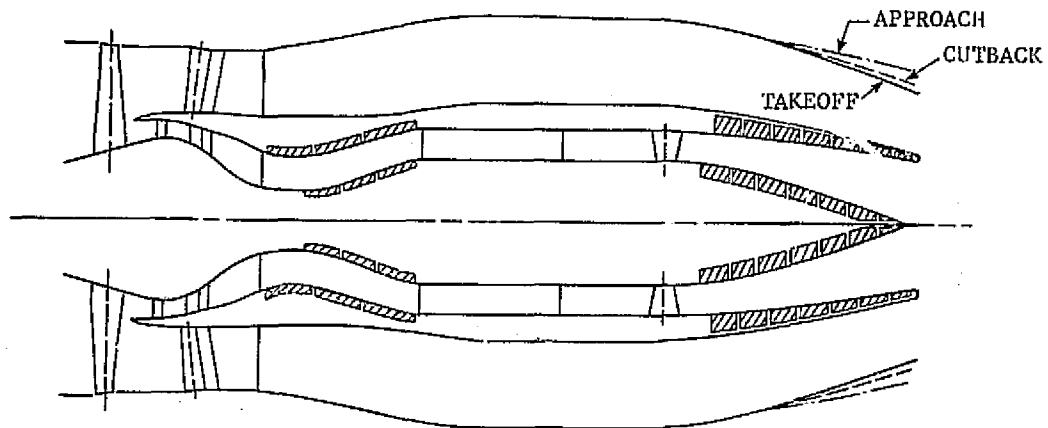
Aft fan noise for the fully suppressed exhaust duct configuration was below FAR 36 by 12.1  $\Delta$ EPNdB at takeoff, 9.4  $\Delta$ EPNdB at cutback, and 12.2  $\Delta$ EPNdB at approach. This was accomplished with increased bypass duct pressure losses (relative to the hardwall duct without a splitter) of 0.56, 1.96, and 2.05% at takeoff, cutback, and approach respectively. A penalty of 0.68% in cruise specific fuel consumption was estimated to result from the wall treatment and splitter in the exhaust duct.

#### C. Total Fan System Noise

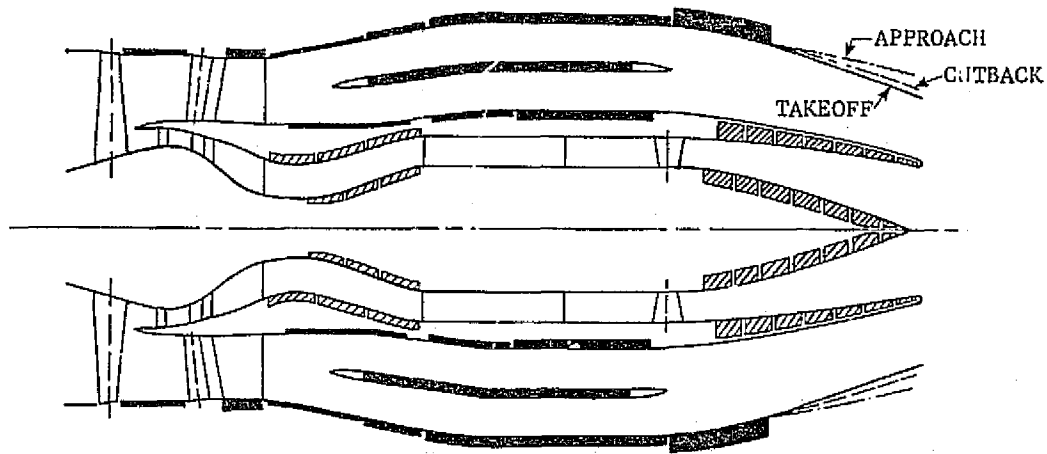
The combined front and aft fan noise, extrapolated to flight, resulted in EPNL's of 10.6  $\Delta$ EPNdB at takeoff, 6.7  $\Delta$ EPNdB at cutback, and 7.1  $\Delta$ EPNdB at approach below FAR 36.

Although the suppression goal of FAR 36 - 20 EPNdB was not reached, improvements in the technology of both front and aft fan noise suppression were realized. Comparisons with results from the Quiet Engine Program (QEP) indicated improved suppression efficiency of the hybrid inlet relative to the Fan "C" splitter inlet, and improved suppression in the bypass duct relative to that of Engine "C". In addition, the suppressed advanced technology fan was shown to be compatible with the proposed FAR 36-XYZ regulation. Specifically, the total fan-noise levels were 1.6, 0.7, and 3.1 EPNdB below the proposed new levels (per the draft of the FAA Environmental Impact Statement dated July 9, 1975) at takeoff, cutback, and approach, respectively.





HARDWALL DUCT WITHOUT SPLITTER



TREATED DUCT WITH SPLITTER

FAN DUCT CONFIGURATIONS FOR FRONT-DRIVE TESTS

## SECTION II

### INTRODUCTION

Low noise and exhaust emissions and economical operation are the primary requirements for advanced transport aircraft. The successful development and acceptance of a subsonic, long-range transport for the next generation are greatly dependent upon technological improvements in the areas of fan aerodynamics and acoustic suppression. To help provide this fan technology, the General Electric Company was contracted to design, build and test a high speed, low noise, single-stage research fan (hereafter referred to as an advanced technology fan), a variable-geometry inlet with high throat Mach number capability, and an acoustically treated fan exit duct, all applicable for an advanced high bypass, low noise engine. To utilize existing hardware and facilities, the subject fan was designed to be half scale.

Under a separate and earlier contract with NASA (Contract NAS3-15544, References 5 and 6), parametric studies were performed to optimize the engine cycle for a typical advanced transport aircraft. Based on these studies, plus the current contract Statement of Work, an engine cycle was selected for an advanced transport designed to cruise between 0.85 and 0.90 Mach number. A fan pressure ratio of 1.8 to 1.9 and a bypass ratio of approximately 6:1 were desirable. Furthermore, it is desirable to raise the pressure ratio of the flow entering the core compressor to about 2.5 to 3.0 by the addition of booster stages. This provides an overall cycle pressure ratio of 30:1 or greater and still uses only a single-stage turbine to drive the high pressure compressor. Fan tip speeds of 488 to 518 m/sec (1600 to 1700 ft/sec) are required to achieve the desired pressure ratio in a single, low radius-ratio stage with adequate stall margin. A high specific flow rate of 215 kg/sec  $m^2$  (44.0 lbm/sec  $ft^2$ ) was chosen to minimize the fan diameter.

The aerodynamic and acoustic performance of the fan vehicle was evaluated in two separate series of tests conducted at General Electric, Peebles, Ohio outdoor sound-field facility. In the first series of tests, the fan was driven by a rear shaft and detailed fan and inlet aerodynamic performance information was obtained. A long bellmouth inlet ( $L/D_F = 2.3$ ) was used for the majority of the fan aerodynamic performance tests, because it contained an additional instrumentation section ahead of the fan. Unsuppressed and suppressed forward-propagating fan noise was evaluated with the shorter bellmouth inlet, with aft-propagating noise virtually eliminated from the system by a massive exhaust suppressor. In the second series of tests, the fan was shaft driven from the front and the inlet system was enclosed in a large "silencer box" to eliminate forward-propagating fan noise. This test program was used to evaluate bypass duct aerodynamic performance and aft-radiating fan noise, both suppressed and unsuppressed. An abbreviated description of the complete test program is given in Table I; the acoustic portions are boxed-in for easy identification.

The advanced technology fan, in combination with the inlet and bypass duct system, was designed to the very challenging noise goal of 20 EPNdB

9  
Table I. Advanced Technology Fan Test Program Outline.

REAR-DRIVE TESTS

Fan Aerodynamic Performance Tests

1. Long Bellmouth Inlet
  - Inlet  $L/D_f = 2.3$
  - Full instrumentation
  - Bypass Ratio Migration
2. Short Bellmouth Inlet
  - Inlet  $L/D_f = 1.4$
  - Tip Clearance Tightened Initially
  - Limited Aerodynamic Instrumentation
3. Hybrid Inlet
  - Inlet  $L/D_f = 1.5$
  - Limited Aerodynamic Instrumentation
  - Takeoff/Cutback and Approach Configurations

Inlet Aerodynamic Performance Tests

3. Hybrid Inlet
  - Inlet  $L/D_f = 1.5$
  - Takeoff/Cutback and Approach Configurations
4. Accelerating Inlet
  - Inlet  $L/D_f = 1.5$
  - Hybrid Inlet without Wall Treatment
  - Takeoff/Cutback and Approach Configurations

Inlet Acoustics Tests

2. Short Bellmouth Inlet (Baseline)
  - Takeoff, Cutback, and Approach Operating Lines
3. Hybrid Inlet
  - Takeoff, Cutback, and Approach Operating Lines
4. Accelerating Inlet
  - Takeoff, Cutback, and Approach Operating Lines

FRONT-DRIVE TESTS

Bypass Duct Aerodynamic Performance Tests

5. Fully Treated Duct with Splitter
  - Takeoff, Cutback, and Approach Nozzles
6. Hardwall Duct without Splitter
  - Takeoff, Cutback, and Approach Nozzles

Aft-Noise Acoustic Tests

5. Fully Treated Duct with Splitter
  - Takeoff, Cutback, and Approach Nozzles
6. Hardwall Duct without Splitter (Baseline)
  - Takeoff, Cutback, and Approach Nozzles



below FAR 36. As a result, the fan design incorporated many low noise features such as a vane/blade ratio of 2.05, a rotor/stator spacing of 2.06 (rotor tip chords) and a blade designed for a swallowed shock at takeoff. The inlet noise suppression system employed a "hybrid" inlet with an adjustable-geometry cowl (two position) capable of generating high throat Mach numbers (design  $M_{TH} = 0.79$ ) at all critical noise conditions [takeoff (sideline), cutback, and approach]. The high Mach number, variable-geometry inlet concept was designed to operate in conjunction with a variable-area fan exhaust nozzle, which was already determined to be necessary for reducing exhaust velocity at the cutback position. This combination reduces the range of area change required of the inlet. At takeoff the exhaust area was assumed to be at the nominal value (necessary to reach takeoff rated thrust), and the inlet throat was adjusted to obtain  $M_{TH} = 0.79$ . Throat area at cutback ( $0.457 \text{ m}^2$ ) was maintained at the takeoff setting for operational simplicity, and the cycle was matched to the proper weight flow by selecting the appropriate combination of throttle setting and exhaust nozzle area. The nozzle was opened during the cutback setting tests 25% above nominal, compared to pretest design estimates of 15%. The difference was due to variation in vehicle performance relative to design. At approach the exhaust nozzle was opened to an area 35% greater than nominal (design estimate was 40%) and the inlet throat was reduced to  $0.339 \text{ m}^2$  in order to achieve  $M_{TH} = 0.79$  at the low thrust level required at approach. During rear-drive tests, these nozzle positions were simulated with core and bypass stream discharge valves, while during the front-drive tests, three separate nozzles were employed and trimmed to duplicate the appropriate operating lines.

Four segments of acoustic-treatment panels, which were tuned to the predicted dominant noise frequencies, were combined with airflow acceleration to form the hybrid inlet. The wall treatment panels were replaceable with hardwall panels so that suppression due to flow acceleration and suppression due to treatment could be isolated, and the effect of wall treatment on inlet aerodynamic performance could be evaluated. The exhaust duct suppression system consisted of a full complement of wall acoustic treatment panels and a midduct splitter. The hardwall duct without splitter served as the acoustic baseline and as the reference in determining the aerodynamic performance penalty associated with the suppressed configuration.

Section 1 of this volume (under separate cover) first describes the test vehicle design and the test specifications and procedures, followed by acoustic performance results and discussion from all tests. For convenient reference, the overall aerodynamic performance map from Reference 4 is shown in Figure 1, and the aerodynamic design parameters from Reference 1 are summarized in Table II. The present report (Section 2 of Volume V) contains 1/3-octave data tabulations and selected narrowband traces. These acoustic data are presented on a 1/3-octave basis, corrected to standard day without sideline extrapolation or scaling, in Sections III and IV. A summary of these data is presented in Table III for rear drive (front noise) and Table IV for front drive (aft noise). Farfield narrowband (20 Hz bandwidth) data presented in Sections V and VI and summarized in Table V are included for the forward and aft angles where the PNL is a maximum on the 31 m (100 ft) arc, at the design operating point of takeoff, cutback and approach.

Other reports of work performed under this contract include: Volume I - Aerodynamic Design, Volume II - Structural Design, Volume III - Acoustic Design and Volume IV - Fan Aerodynamics, which are References 1, 2, 3, and 4 respectively.

A visual representation of the overall program and report organization is shown in Figure 4.

Table II. Aerodynamic Design Parameters.

<u>Fan</u>	
Corrected tip speed	503 m/sec (1650 ft/sec)
Corrected airflow	117.9 kg/sec (259.9 lbm/sec)
Inlet specific flow rate	215 kg/sec m <sup>2</sup> (44.0 lbm/sec ft <sup>2</sup> )
Predicted stall margin (const. speed)	13%
Objective adiabatic efficiency (bypass)	84%
Bypass pressure ratio	1.80
Core pressure ratio	1.69
Bypass ratio	6.0
Inlet hub-tip radius ratio	0.38
Tip diameter	90.37 cm (35.58 in.)
Rotor aspect ratio	3.34
OGV aspect ratio	3.94
Rotor tip/hub solidity	1.50/2.74
OGV tip/hub solidity	1.37/2.05
<u>Booster</u>	
Corrected tip speed	262 m/sec (858 ft/sec)
Corrected airflow (R <sub>2</sub> inlet)	11 kg/sec (24.0 lbm/sec)
Pressure ratio	1.63
Predicted stall margin (const. speed)	13%
Rotor aspect ratio (R <sub>2</sub> /R <sub>3</sub> )	2.05/2.02
Rotor pitchline solidity (R <sub>2</sub> /R <sub>3</sub> )	1.27/1.35
Stator aspect ratio (S <sub>1</sub> /S <sub>2</sub> /S <sub>3</sub> )	1.60/1.99/2.20
Stator pitchline solidity (S <sub>1</sub> /S <sub>2</sub> /S <sub>3</sub> )	1.52/1.79/1.69

Table III. Test Summary, Rear Drive.

Configuration	Reading	FGK (lb)	$\frac{V_T}{\sqrt{N}}$ (ft/sec)	$\frac{V_T}{\sqrt{N}}$ (ft/sec)	$\frac{N}{\sqrt{N}}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		$\frac{P}{T}$ (1)		$\frac{M\sqrt{N}}{\delta_{TH}}$ (2)		$N_{TH}$	$N_{PTH}$	Acoustic Probe (3)
							BP	M	$\frac{P}{P_{BARO}}$	$\frac{M\sqrt{N}}{\delta_{TH}}$ (lb/s $\delta c$ )					
Hybrid Inlet Approach Position - 7/12/74	246	2730	64.0	1057	6797	6910	70	70	1.176	175.9	.839	1.03	Inlet Probe Fan Face Probe Strut Probe		
	248	2664	62.6	1034	6649	6759	70	70	1.171	174.5	.815	.993			
	254	2618	62.8	1038	6674	6742	70	70	1.164	172.8	.79	.964			
	255	2618	62.8	1038	6674	6742	70	70	1.164	172.8	.79	.964			
	256	2829	63.7	1052	6768	6847	65	65	1.185	173.8	.805	.975			
	257	2609	62.4	1031	6631	6709	75	75	1.161	174.1	.81	.979			
	259	2677	62.2	1028	6611	6689	75	75	1.163	174.2	.81	.979			
	260	2540	61.3	1014	6519	6595	75	75	1.148	171.1	.77	.911			
	261	2566	61.8	1022	6571	6647	70	70	1.151	170.65	.764	.899			
	262	2660	61.8	1021	6565	6641	65	65	1.173	169.7	.753	.895			
	263	2508	60.4	998	6416	6490	65	65	1.161	165.18	.707	.830			
	264	2435	60.0	991	6376	6431	70	70	1.147	165.9	.713	.840			
	265	2397	59.6	984	6329	6384	75	75	1.140	166.5	.719	.851			
	266	2331	58.3	963	6195	6249	75	75	1.136	163.5	.691	.815			
	267	2352	58.6	968	6227	6270	70	70	1.141	162.5	.687	.801			
	268	2564	61.2	1012	6510	6555	65	65	1.164	166.5	.719	.858			
	269	2539	60.6	1001	6439	6484	65	65	1.159	166.1	.716	.842			
	270	2523	61.1	1010	6493	6538	65	65	1.158	166.3	.717	.851			
	271	2648	62.0	1025	6590	6636	65	65	1.169	169.2	.748	.888			
	272	2799	63.9	1055	6787	6834	65	65	1.184	172.9	.793	.961			
	273	2625	62.2	1028	6611	6669	75	75	1.154	173.2	.797	.952			
	274	2590	61.8	1022	6573	6631	75	75	1.151	172.5	.788	.937			
	275	2412	59.3	981	6306	6361	75	75	1.140	166.4	.718	.840			
	276	2316	58.4	964	6203	6258	75	75	1.136	164.4	.699	.816			
	277	2776	62.5	1033	6644	6702	75	75	1.149	174.1	.81	.966			
	279	2410	61.9	1024	6386	6423	70	70	1.142	165.1	.706	.833			
	281	2393	58.9	974	6264	6319	70	70	1.147	163.3	.689	.815			
	282	2559	61.7	1020	6560	6618	70	70	1.154	169.2	.747	.889			
	283	2719	63.1	1042	6704	6764	70	70	1.169	173.5	.801	.967			
284	2830	65.3	1083	6936	6998	70	70	1.177	177.5	.875	1.053				
285	2760	64.3	1063	6836	6896	70	70	1.168	175.5	.834	1.008				
287	2841	65.3	1079	6937	6998	70	70	1.175	176.8	.859	1.060				
288	2620	62.5	1033	6643	6702	75	75	1.154	173.6	.802	.968				
289	2585	62.0	1024	6588	6654	75	75	1.154	173.02	.795	.959				
Hybrid Inlet Takeoff Operating Line - 7/15/74	294	-----	59.5	981	6307	6404	51	49	-----	-----	-----	-----	*		
	295	3401	69.5	1149	7390	7550	51	49	1.277	176.2	.479	.551			
	296	5281	84.4	1396	8976	9175	51	49	1.499	217.7	.669	.782			
	297	5839	93.0	1488	9570	9722	51	49	1.499	207.8	.614	.751			
	299	6017	91.0	1504	9670	9846	51	49	1.613	233.4	.787	.956			
	301	5804	88.5	1462	9404	9572	51	49	1.566	227.4	.735	.880			



Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$\frac{ZN}{\sqrt{G}}$	$V_T$ (ft/sec)	$N/\sqrt{G}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		P (1)		P (2)		$M_{TH}$	$M_{PTH}$	Acoustic Probe
							BP	M	$\frac{T}{P_{BARO}}$	$\frac{W/\sqrt{G}}{\delta TH}$ (lb/sec)	$M_{TH}$	$M_{PTH}$			
Hybrid Inlet Takeoff Operating Line - 7/15/74 (cont'd)	302	5624	87.6	1447	9308	9424	51	49	1.539	223.4	.706	.832			
	303	6568	98.5	1627	10465	10635	51	49	1.678	240.6	.88	1.075			
	304	6628	99.6	1646	10584	10755	51	49	1.697	240.4	.878	1.074			
	305	3095	69.3	1149	7390	7480	51	49	1.266	174.3	.472	.543			
	306	5220	84.2	1396	8976	9084	51	49	1.478	214.7	.651	.766			
	307	6142	90.8	1504	9670	9794	51	49	1.605	232.9	.782	.952			
	308	5632	88.2	1457	9370	9509	51	49	1.544	225.6	.719	.854			
	309	5584	86.9	1442	9273	9375	51	49	1.528	221.9	.696	.826			
	310	6678	98.2	1627	10465	10586	51	49	1.700	240.9	.887	1.096			
	311	6540	99.3	1641	10551	10705	51	49	1.691	240.7	.883	1.096			
	313	5264	84.2	1392	8953	9072	53	53	1.462	217.7	.669	.795			
	314	5856	88.2	1459	9380	9505	53	53	1.534	230.3	.758	.919			
	315	5803	89.1	1473	9474	9600	53	53	1.543	231.7	.771	.928			
	316	6068	90.1	1489	9578	9704	53	53	1.562	234.8	.802	.970			
	317	6447	99.8	1650	10611	10754	53	53	1.620	240.7	.883	1.094			
	318	5233	84.2	1392	8954	9072	53	53	1.460	218.2	.672	.797			
	319	5760	88.2	1457	9373	9506	53	53	1.527	229.6	.752	.905			
	320	6021	90.1	1490	9582	9704	53	53	1.565	234.5	.799	.971			
	321	6381	99.9	1651	10618	10754	53	53	1.632	240.8	.887	1.084			
	322	5168	84.2	1392	8952	9067	55	54	1.446	221.2	.691	.926			
	323	5702	88.2	1459	9381	9508	55	54	1.517	231.6	.77	.926			
	324	6219	99.9	1650	10613	10754	55	54	1.578	241.3	.897	1.083			
	325	---	89.3	1476	9492	9579	55	54	---	---	---	---	*		
	326	6231	99.8	1650	10609	10754	55	54	1.583	241.3	.897	1.083			
	327	5825	88.8	1468	9443	9578	55	54	1.531	234.2	.796	.968	**		
	328	5683	88.3	1459	9385	9508	55	54	1.510	232.2	.776	.934			
	329	5823	89.1	1473	9476	9577	55	54	1.529	234.4	.803	.971			
	330	5236	84.4	1395	8973	9065	55	54	1.455	222.7	.702	.828			
	Hybrid Inlet Cutback Operating Line - 7/15/74	331	3424	69.6	1151	7403	7474	63	63	1.235	187.6	.523	.601		
		333	4593	79.7	1317	8472	8540	63	63	1.352	213.9	.647	.761		
334		5169	84.7	1400	9007	9077	63	63	1.411	226.7	.73	.862			
335		5180	86.3	1426	9169	9240	63	63	1.424	230.3	.75	.907			
336		5438	87.8	1451	9332	9402	63	63	1.439	232.7	.781	.939			
337		5948	94.6	1563	10054	10144	63	63	1.467	241.2	.896	1.071			
338		5874	100.4	1659	10668	10746	63	63	1.481	241.6	.895	1.072			
339		3387	69.7	1152	7410	7460	63	63	1.233	186.7	.52	.599			
340		4397	79.7	1317	8471	8528	63	63	1.345	213.4	.645	.747			
341		5156	84.8	1401	9014	9077	63	63	1.408	226.8	.731	.863			
342	5262	86.3	1426	9167	9236	63	63	1.419	229.6	.753	.895				

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$ZN/\sqrt{O}$	$V_T$ (ft/sec)	$N/\sqrt{O}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		$\frac{P}{T}$ $\frac{P}{P_{BARO}}$	$\frac{W\sqrt{O}}{\delta TH}$ (lb/sec)	$M_{TH}$	$M_{PTH}$	Acoustic Probe	
							BP	M						
Hybrid Inlet Cutback Operating Line - 7/15/74 (cont'd)	343	5472	87.9	1453	9344	9412	63	63	1.439	233.2	.786	.951		
	344	5994	94.6	1563	10054	10141	63	63	1.476	241.6	.907	1.096		
	345	5845	100.3	1658	10662	10751	63	63	1.485	241.3	.899	1.103		
	347	4543	79.7	1317	8468	8538	58	58	1.364	210.1	.627	.722		
	348	4527	84.8	1401	9008	9077	58	58	1.431	223.4	.705	.835		
	350	5736	88.5	1462	9404	9477	58	58	1.510	233.4	.789	.953		
	351	-----	63.2	1045	6718	6750	58	58	-----	-----	-----	-----	*	
	353	4594	79.7	1317	8473	8540	58	58	1.371	210.6	.630	.733		
	354	5260	84.7	1401	9002	9073	58	58	1.446	224.5	.714	.837		
	355	5753	88.2	1458	9374	9474	58	58	1.510	233.8	.793	.951		
	356	6187	100.3	1658	10662	10750	58	58	1.564	241.1	.894	1.091		
	357	4511	79.8	1318	8478	8535	69	69	1.328	215.4	.658	.769		
	358	4936	84.8	1401	9008	9073	69	69	1.357	227.1	.733	.867		
	359	5194	87.4	1445	9292	9350	69	69	1.377	233.6	.791	.945		
	360	5689	100.4	1660	10675	10750	69	69	1.432	241.9	.914	1.102		
	361	4543	79.7	1317	8470	8540	69	69	1.333	215.4	.655	.763		
	362	4936	84.7	1401	9002	9077	69	69	1.355	227.9	.739	.870		
	363	5190	87.3	1442	9273	9350	69	69	1.380	233.2	.787	.943		
	364	5645	100.3	1658	10664	10750	69	69	1.423	241.7	.910	1.091		
	380	-----	87.5	1446	9298	9457	63	63	1.438	233.3	.787	.941	Lip Probe (4)	
	381	-----	87.5	1446	9298	9457	63	63	1.438	233.3	.787	.941	Fan Face Probe	
	382	-----	87.5	1446	9298	9457	63	63	1.438	233.3	.787	.941	Strut Probe	
	392	-----	91.9	1518	9764	10047	51	49	1.627	232.9	.785	.941	Lip Probe	
	393	-----	91.9	1518	9764	10047	51	49	1.627	232.9	.785	.941	Fan Face Probe	
	394	-----	91.9	1518	9764	10047	51	49	1.627	232.9	.785	.941	Strut Probe	
	Accelerating Inlet Takeoff Operating Line - 7/27/74	415	3320	69.3	1145	7363	7492	51	49	1.276	173.9	.471	.524	*
		416	3128	66.2	1095	7040	7491	51	49	-----	-----	-----	-----	
		418	5193	83.0	1372	8821	9387	51	49	1.523	212.1	.637	.812	
		420	3313	69.6	1150	7398	7510	51	49	1.264	169.9	.456	.542	
		421	3270	69.3	1144	7360	7511	51	49	1.268	173.5	.469	.527	
422		5047	83.9	1386	8913	9113	51	49	1.480	213.4	.644	.727		
423		5316	86.8	1435	9228	9436	51	49	1.532	224.4	.690	.792		
424		5569	88.2	1457	9373	9585	51	49	1.552	223.4	.703	.813		
425		5928	90.8	1500	9647	9866	51	49	1.600	237.7	.762	.879		
426		6462	98.3	1625	10451	10688	51	49	1.700	239.0	.855	1.016		
427		6498	98.9	1634	10511	10749	51	49	1.708	239.4	.862	1.036		
428		5637	88.7	1466	9428	9658	51	49	1.563	225.0	.717	.825		
429		6072	92.0	1520	9773	10012	51	49	1.630	232.6	.78	.909		

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$ZN/\sqrt{G}$	$V_T$ (ft/sec)	$N/\sqrt{G}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		$\frac{P}{T}$ (1)	$\frac{W\sqrt{G}}{\delta TH}$ (2)	$M_{TH}$	$M_{PTH}$	Acoustic Probe
							BP	M					
							$P_{BARO}$						
Accelerating Inlet Takeoff Operating Line - 7/27/74	430	----	92.4	1528	9826	10014	51	49	----	----	----	----	*
	431	6097	92.7	1531	9847	10088	51	49	1.634	233.3	.787	.926	
	432	6012	93.0	1536	9880	10088	51	49	1.634	233.3	.787	.926	
	433	6469	98.6	1629	10477	10749	51	49	1.695	240.0	.872	1.038	
	434	6464	98.1	1622	10431	10698	51	49	1.691	240.5	.88	1.054	
	435	5966	92.7	1532	9853	10105	51	49	1.631	233.9	.792	.923	
	436	5695	88.8	1467	9438	9679	51	49	1.574	226.4	.727	.835	
	437	5486	87.1	1439	9256	9492	51	49	1.547	227.0	.696	.794	
	438	5512	86.6	1431	9205	9441	51	49	1.546	223.4	.706	.795	
	439	3294	69.4	1147	7380	7568	51	49	1.277	173.7	.47	.525	
	440	5069	84.2	1391	8949	9178	51	49	1.490	213.3	.644	.730	
Accelerating Inlet Takeoff Operating Line - 7/29/74	441	5584	88.3	1459	9380	9646	53	53	1.523	229.1	.749	.853	
	442	5085	84.3	1393	8957	9203	53	53	1.468	217.9	.67	.759	
	443	5843	90.2	1490	9583	9847	53	53	1.571	232.7	.78	.914	
	444	6359	98.4	1626	10460	10748	53	53	1.652	241.2	.894	1.092	
	445	----	98.9	1634	10510	10750	53	53	----	----	----	----	*
	446	5942	91.4	1511	9719	9986	53	53	1.602	237.5	.834	.961	
	447	5870	90.4	1495	9613	9873	53	53	1.573	233.6	.789	.914	
	448	5018	84.3	1393	8961	9203	53	53	1.456	217.0	.665	.754	
	449	5526	88.7	1466	9428	9648	53	53	1.543	225.3	.719	.853	
	456	5195	84.1	1389	8933	9069	53	53	1.486	217.5	.672	.75	
	457	5787	88.3	1458	9380	9523	53	53	1.549	231.4	.775	.871	
	458	6043	90.3	1493	9600	9720	53	53	1.586	235.6	.82	.94	
	459	5705	87.8	1452	9336	9452	53	53	1.539	229.4	.757	.849	
	460	5865	88.9	1468	9444	9560	53	53	1.563	232.1	.782	.89	
	461	6480	99.8	1649	10602	10734	53	53	1.655	242.4	.955	1.0+	
	462	5968	89.6	1481	9527	9646	53	53	1.576	234.4	.805	.916	
	463	6483	99.8	1649	10608	10740	53	53	1.655	242.5	1.036	1.0+	
	464	5970	89.6	1480	9520	9639	53	53	1.576	234.2	.803	.914	
	465	5653	87.5	1447	9303	9419	53	53	1.532	228.3	.748	.842	
	466	5168	84.0	1388	8926	9038	53	53	1.470	218.4	.677	.759	
	485	5204	84.0	1389	8931	9005	55	54	1.456	221.5	.698	.778	
	486	5713	88.4	1460	9394	9432	55	54	1.520	230.7	.769	.874	
	487	5809	89.0	1471	9461	9499	55	54	1.534	232.1	.783	.893	
488	6112	100.0	1652	10626	10669	55	54	1.594	240.0	.885	1.004		
489	5800	89.1	1472	9466	9504	55	54	1.529	232.6	.737	.899		
490	5245	84.4	1394	8968	9013	55	54	1.464	220.9	.694	.779		
491	5484	88.6	1464	9413	9433	55	54	1.522	221.4	.692	.867		

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$ZN/\sqrt{G}$	$V_T$ (ft/sec)	$N/\sqrt{G}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		P (1)		$\frac{W\sqrt{G}}{\delta TH}$ (2)		$N_{TH}$	$N_{PTH}$	Acoustic Probe
							BP	M	$\frac{T}{P_{BARO}}$	$\frac{W\sqrt{G}}{\delta TH}$ (lb/sec)					
Accelerating Inlet Takeoff Operating Line - 7/29/74 (cont'd)	492	5875	89.9	1485	9550	9599	55	54	1.548	232.8	.789	.904			
	493	6322	99.9	1650	10614	10668	55	54	1.610	240.3	.892	1.018			
	494	5875	89.8	1484	9545	9613	55	54	1.550	233.0	.791	.906			
	495	5874	88.2	1457	9372	9439	55	54	1.528	229.3	.757	.907			
Accelerating Inlet Cutback Operating Line - 7/29/74	497	3408	69.8	1153	7417	7471	63	63	1.240	186.6	.522	.581			
	498	4546	79.7	1317	8471	8546	63	63	1.355	212.3	.642	---			
	500	5217	84.6	1399	8996	9060	63	63	1.427	227.0	.738	.829			
	501	5217	84.6	1399	8996	9108	63	63	1.427	227.0	.738	.829			
	502	5343	86.1	1423	9154	9268	63	63	1.439	229.9	.762	.867			
	503	5495	87.3	1443	9279	9419	63	63	1.454	234.1	.803	.895	**		
	504	5806	92.4	1527	9820	9968	63	63	1.485	240.7	.90	1.022			
	505	---	100.0	1652	10623	10750	63	63	---	---	---	---	*		
	506	5821	92.1	1523	9793	9968	63	63	1.486	241.7	.928	1.041			
	507	5063	84.8	1402	9017	9178	63	63	1.429	227.7	.744	.838			
	508	5467	86.4	1428	9183	9344	63	63	1.434	231.6	.777	.874			
	509	3470	69.7	1151	7403	7532	63	63	1.252	188.2	.528	.591			
	510	4558	79.3	1311	8429	8594	63	63	1.357	214.8	.656	.731			
	510A	---	79.6	1316	8462	8600	63	63	1.357	214.8	.656	.731			
	511	5081	83.9	1387	8920	9093	63	63	1.415	225.2	.724	.816			
	512	5177	84.8	1401	9013	9188	63	63	1.422	227.8	.744	.832			
	512A	---	84.9	1403	9026	9177	63	63	1.429	227.7	.744	.832			
	513	5169	86.7	1433	9213	9392	63	63	1.433	231.4	.776	.868			
	514	5372	87.1	1440	9258	9437	63	63	1.438	232.9	.79	.898			
	515	---	99.2	1640	10547	10748	63	63	1.479	243.8	.98	---			
	516	5339	86.9	1436	9236	9439	63	63	1.435	232.9	.79	.892			
	517	5802	99.1	1637	10529	10761	63	63	1.478	243.5	1.0+	1.0+			
	518	5798	99.0	1637	10527	10759	63	63	1.478	243.2	.979	1.0+			
	519	4469	79.3	1310	8427	8636	58	58	1.355	212.1	.64	.709			
	521	4871	82.1	1357	8727	8943	58	58	1.406	219.9	.687	.765			
	522	5022	83.1	1373	8828	9047	58	58	1.426	222.5	.705	.789			
	524	5500	87.1	1440	9258	9488	58	58	1.484	232.8	.789	.877			
	525	6094	98.8	1632	10496	10757	58	58	1.563	243.0	1.0+	1.0+			
	526	---	87.3	1442	9277	9480	58	58	---	---	---	---	*		
	527	6075	98.7	1631	10491	10753	58	58	1.558	243.0	1.0+	1.0+			
	528A	5536	87.1	1439	9257	9487	58	58	1.490	232.0	.79	.887			
	529	5039	83.1	1373	8831	9051	58	58	1.427	223.0	.711	.788			
529A	---	83.3	1377	8856	9050	58	58	1.427	223.6	.711	.788				

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$\%N/\sqrt{\theta}$	$V_T$ (ft/sec)	$N/\sqrt{\theta}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		$\frac{P}{T}$ P BARO	$\frac{W/\sqrt{\theta}}{\delta TH}$ (lb/sec)	$M_{TH}$	$M_{PTH}$	Acoustic Probe
							BP	M					
							(1)	(2)					
Accelerating Inlet Cutback Operating Line (cont'd) 7/31/74	530	4492	79.0	1305	8394	8603	58	58	1.366	211.2	.636	.705	
	531	4535	80.1	1324	8513	8709	69	69	1.339	218.2	.677	.751	
	533	4855	84.3	1392	8955	9161	69	69	1.352	229.0	.754	.836	
	534	4795	83.8	1385	8906	9111	69	69	1.351	226.7	.735	.75	
	535	4946	85.9	1419	9127	9338	69	69	1.358	231.3	.774	.863	
	535A	-----	86.1	1423	9150	9333	69	69	1.358	231.3	.774	.863	
	536	5070	87.1	1440	9258	9471	69	69	1.369	234.4	.806	.903	
	536A	-----	87.3	1443	9282	9468	69	69	1.369	234.4	.806	.903	
	537	5728	98.9	1635	10513	10755	69	69	1.459	243.5	1.0+	1.0+	
	538	5066	87.1	1439	9252	9466	69	69	1.366	234.6	.808	.904	
	538A	-----	87.3	1442	9274	9460	69	69	1.366	234.6	.808	.904	
	538B	-----	87.3	1442	9276	9462	69	69	1.366	234.6	.808	.904	
	539	5728	98.9	1634	10507	10750	69	69	1.457	243.6	1.0+	1.0+	
	540	4813	83.8	1386	8911	9117	69	69	1.354	226.7	.736	.816	
	541	4516	79.9	1320	8491	8679	69	69	1.340	216.8	.667	.744	
	543A	-----	86.9	1437	9241	9390	63	63	1.422	232.2	.784	.898	Lip Probe
	544A	-----	86.9	1437	9241	9390	63	63	1.422	232.2	.784	.898	Fan Face Probe
	545A	-----	86.9	1437	9241	9390	63	63	1.422	232.2	.784	.898	Strut Probe
	552A	-----	91.4	1510	9712	9875	51	49	1.620	233.1	.792	.920	Lip Probe
	553A	-----	91.4	1510	9712	9875	51	49	1.620	233.1	.792	.920	Fan Face Probe
554A	-----	91.4	1510	9712	9875	51	49	1.620	233.1	.792	.920	Strut Probe	
Accelerating Inlet Approach Position 8/5/74	564	2335	58.6	968	6226	6347	70	70	1.141	162.2	.679	.770	
	565	2472	60.0	992	6379	6502	70	70	1.150	167.1	.724	.815	
	566	2251	59.4	982	6317	6439	70	70	1.140	165.3	.707	.804	
	566A	-----	59.7	986	6341	6444	70	70	1.140	165.3	.707	.804	
	567	2618	61.6	1017	6543	6669	70	70	1.164	170.5	.760	.856	
	568	2690	62.6	1034	6649	6777	70	70	1.168	173.3	.797	.904	
	569	2746	63.9	1056	6793	6910	70	70	1.169	175.7	.835	.961	
	570	2681	64.9	1073	6900	7020	70	70	1.181	177.2	.867	1.042	
	571	2771	63.9	1057	6796	6913	70	70	1.173	176.1	.842	.964	
	572	2925	65.4	1080	6949	7069	70	70	1.186	180.4	1.0+	1.0+	
	573	2767	62.6	1035	6657	6772	70	70	1.175	175.1	.826	.916	
	574	2642	61.7	1020	6557	6670	70	70	1.161	172.8	.79	.868	
	575	2458	59.6	984	6329	6439	70	70	1.151	165.7	.71	.800	
	576	2600	61.6	1018	6547	6660	70	70	1.158	171.3	.77	.869	
	577	2368	58.7	970	6240	6347	70	70	1.144	163.3	.688	.774	
	578	2514	60.3	996	6408	6518	65	65	1.160	165.3	.706	.799	
	579	2547	61.1	1009	6490	6602	65	65	1.161	166.7	.72	.819	

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	ZN/√G	V <sub>T</sub> (ft/sec)	N/√G (rpm)	N <sub>PHY</sub> (rpm)	D.V.		P (1)		W/√G 5TH (lb/sec)	M <sub>TH</sub>	M <sub>PTH</sub>	Acoustic Probe
							BP	M	P <sub>BARO</sub>	T				
Accelerating Inlet Approach Position (cont'd) 8/5/74	580	2637	62.0	1024	6587	6700	65	65	1.168	169.5	.75	.852	Inlet Probe Fan Face Probe Strut Probe	
	581	2784	63.6	1052	6763	6879	65	65	1.180	173.8	.804	.917		
	582	2654	62.0	1025	6591	6698	65	65	1.171	169.6	.75	.852		
	583	2720	63.1	1043	6710	6819	65	65	1.174	172.0	.781	.895		
	584	2589	61.2	1011	6500	6605	65	65	1.167	167.8	.731	.837		
	585	2527	60.3	996	6408	6512	65	65	1.162	165.2	.706	.809		
	586	2318	58.3	964	6198	6299	75	75	1.135	163.5	.69	.783		
	587	2398	59.3	980	6300	6403	75	75	1.142	165.6	.71	.805		
	588	2721	61.3	1013	6512	6619	75	75	1.153	170.9	.766	.865		
	589	2460	62.4	1031	6629	6738	75	75	1.159	173.4	.798	.915		
	590	2561	61.4	1014	6521	6628	75	75	1.151	171.2	.77	.876		
	591	2646	62.3	1029	6619	6729	75	75	1.159	173.0	.793	.900		
	592	2482	59.5	983	6319	6424	75	75	1.151	167.3	.727	.81		
	594	2122	58.5	966	6214	6317	75	75	1.133	163.9	.694	.781		
	595	2416	62.9	1039	6682	6714	75	75	1.162	170.4	.754	.849		
	602	2697	63.2	1045	6721	6765	70	70	1.166	171.9	.778	.895		
	604	2697	63.2	1045	6721	6765	70	70	1.166	171.9	.778	.895		
	605	2697	63.2	1045	6721	6765	70	70	1.166	171.9	.778	.895		
Bellmouth Inlet Approach Operating Line - 8/9/74	634	----	69.6	1151	7404	7542	70	70	----	----			*	
	635	2347	58.7	970	6236	6370	70	70	1.150	159.2				
	636	1455	60.0	993	6384	6521	70	70	1.157	163.1				
	637	2594	61.7	1020	6561	6717	70	70	1.167	168.3				
	638	2802	62.7	1037	6667	6826	70	70	1.169	170.0				
	639	2794	64.1	1056	6807	6970	70	70	1.183	174.0				
	640	2922	65.2	1077	6927	7090	70	70	1.195	177.7				
	641	2330	58.5	967	6222	6370	70	70	1.148	160.1				
	642	----	60.0	992	6380	6512	70	70	1.154	161.9				
	643	----	60.0	992	6380	6512	70	70	1.154	161.9				
	643A	----	60.0	992	6380	6512	70	70	1.154	161.9				
	644	----	60.0	992	6380	6512	70	70	1.154	161.9				
	645	2419	60.0	992	6380	6512	70	70	1.154	161.9				
	646	2529	61.7	1020	6562	6718	70	70	1.162	166.9				
	647A	2567	64.1	1059	6811	6986	70	70	1.177	174.2				
	648	2632	64.0	1057	6801	6975	70	70	1.177	179.9				
	650	2458	60.2	994	6395	6558	65	65	1.164	161.9				
	651	2561	61.7	1020	6559	6727	65	65	1.171	165.9				
652A	----	63.7	1052	6767	6896	65	65	----	----			*		
653	2769	63.6	1050	6754	6888	65	65	1.190	170.7					

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$ZN/\sqrt{O}$	$V_T$ (ft/sec)	$N/\sqrt{O}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		P (1)		(2)		$M_{TH}$	$M_{PTH}$	Acoustic Probe
							BP	M	$P_{BARO}$	$\frac{N/\sqrt{O}}{\delta TH}$ (lb/sec)					
											T				
Bellmouth Inlet Approach Operating Line - 8/9/74 (cont'd)	654	2802	61.9	1024	6583	6714	65	65	1.171	167.1					
	655	2776	63.5	1050	6754	6888	65	65	1.189	171.1					
	656	2483	60.2	995	6400	6527	65	65	1.166	162.2					
	657	2312	58.3	963	6194	6316	75	75	1.140	162.5					
	658	2408	59.3	981	6306	6430	75	75	1.148	164.7					
	659	-----	62.5	1033	6644	6746	75	75	-----	-----				*	
	660	-----	62.2	1027	6606	6719	75	75	1.167	171.6					
	663	2644	62.2	1028	6613	6725	75	75	1.166	171.8					
	664	2418	59.4	982	6313	6421	75	75	1.149	164.5					
	665	2649	62.2	1028	6613	6725	75	75	1.166	171.8					
	666	2302	58.3	963	6191	6300	75	75	1.140	161.2					
Bellmouth Inlet Cutback Operating Line - 8/9/74	667	3361	69.5	1149	7389	7514	63	63	1.245	185.3					
	668	4491	79.5	1313	8447	8590	63	63	1.385	211.6					
	669	-----	85.0	1405	9033	9145	63	63	-----	-----				*	
	670	-----	86.3	1427	9176	9290	63	63	-----	-----				*	
	671	5123	84.6	1398	8990	9136	63	63	1.431	224.2					
	672	5219	86.0	1420	9135	9283	63	63	1.436	227.4					
	673	5293	86.7	1433	9217	9367	63	63	1.443	229.2					
	674	5724	92.4	1526	9817	9977	63	63	1.508	243.5					
	675	6468	99.5	1644	10571	10743	63	63	1.559	255.2					
	676	5917	92.4	1526	9817	9977	63	63	1.507	242.6					
	677	6449	99.5	1644	10574	10746	63	63	1.556	254.6					
	678	5321	86.9	1437	9240	9390	63	63	1.443	230.1					
	679	5158	85.8	1417	9113	9261	63	63	1.426	226.7					
	680	5083	84.8	1402	9016	9163	63	63	1.419	224.5					
	681	4436	79.8	1320	8478	8613	63	63	1.346	211.5					
	682	3333	69.8	1153	7418	7537	63	63	1.240	185.0					
	683	-----	80.0	1323	8506	8600	63	63	1.240	185.0					
	686	5073	84.7	1399	8999	9135	58	58	1.437	220.9					
	687	5616	88.3	1459	9381	9523	58	58	1.506	231.6					
	688	6864	99.9	1651	10619	10780	58	58	1.677	254.4					
	689	5624	88.3	1459	9382	9524	58	58	1.505	231.8					
	690	6591	99.9	1651	10619	10780	58	58	1.670	254.4					
	691	5127	84.7	1400	9000	9139	58	58	1.455	221.0					
692	4507	80.1	1323	8507	8597	58	58	-----	-----					*	
693	4337	79.6	1316	8465	8593	58	58	1.377	208.0						
695	-----	84.6	1400	9000	9134	69	69	1.371	225.0						
696	5197	87.4	1444	9289	9312	69	69	1.394	233.2						

Table III. Test Summary, Rear Drive (Continued).

Configuration	Reading	FGK (lb)	$\%N/\sqrt{G}$	$V_T$ (ft/sec)	$N/\sqrt{G}$ (rpm)	$N_{PHY}$ (rpm)	D.V.		$\frac{P}{T}$ P BARO	$\frac{W/\sqrt{G}}{\delta TH}$ (lb/sec)	$M_{TH}$	$M_{PTH}$	Acoustic Probe
							BP	M					
Bellmouth Inlet Cutback Operating Line - 8/9/74 (cont'd)	697	4756	84.6	1399	8994	9113	69	69	1.371	224.4			
	699	-----	100.6	1663	10693	10785	69	69	-----	-----			*
	700	6462	100.1	1654	10635	10777	69	69	1.541	255.8			
	701	5164	87.3	1505	9276	9407	69	69	1.398	232.8			
	702	6478	100.1	1654	10640	10782	69	69	1.542	255.9			
	703	4964	84.6	1399	8995	9113	69	69	1.380	226.4			
	704	5178	85.2	1408	9058	9177	55	54	1.476	218.6			
	705	5588	88.7	1465	9422	9546	55	54	1.529	226.7			
	707	6947	99.8	1650	10609	10749	55	54	1.716	252.9			
	708	5530	88.7	1466	9425	9548	55	54	1.509	226.8			
	709	6910	99.7	1649	10602	10742	55	54	1.709	252.4			
	711	4932	84.3	1393	8958	9075	55	54	1.457	211.6			
	712	-----	88.6	1465	9421	9502	53	53	-----	-----			*
	713	-----	90.0	1488	9568	9651	53	53	-----	-----			*
	715	6957	99.7	1648	10600	10740	53	53	1.737	250.8			
	716	5625	89.5	1480	9516	9641	53	53	1.546	225.7			
	717	6955	99.8	1650	10609	10747	53	53	1.739	250.5			
	718	5639	89.6	1481	9522	9646	53	53	1.546	226.0			
	719	5473	88.2	1457	9373	9494	53	53	1.532	222.1			
	721	5495	88.2	1458	9378	9500	53	53	1.531	222.4			
Bellmouth Inlet Takeoff Operating Line - 8/10/74	722	3157	69.4	1147	7377	7471	51	49	1.268	168.2			
	723	4941	84.2	1391	8947	9055	51	49	1.479	208.6			
	724	5384	88.3	1460	9390	9503	51	49	1.532	218.5			
	725	5736	90.8	1500	9649	9765	51	49	1.581	225.2			
	726	6025	92.7	1532	9850	9969	51	49	1.623	230.5			
	727	7040	100.3	1658	10664	10793	51	49	1.773	249.9			
	728	5997	92.4	1526	9816	9935	51	49	1.618	230.1			
	730	6992	100.3	1632	10665	10794	51	49	1.770	248.4			
	731	5735	90.8	1500	9647	9763	51	49	1.584	224.8			
	732	5463	88.3	1460	9385	9498	51	49	1.547	219.3			
	733	4852	84.1	1390	8941	9048	51	49	1.466	206.9			
	734	3188	69.4	1148	7380	7468	51	49	1.270	169.3			
	743	5583	88.0	1454	9353	9551	63	63	1.148	233.0			Inlet Probe
	744	5583	88.0	1454	9353	9551	63	63	1.148	233.0			Fan Face Probe
	745	5583	88.0	1454	9353	9551	63	63	1.148	233.0			Strut Probe
746	5583	88.0	1454	9353	9551	63	63	1.148	233.0				



Table III. Test Summary, Rear Drive (Concluded).

Configuration	Reading	FRK (lb)	$\frac{ZN}{\sqrt{Q}}$	$V_T$ (ft/sec)	$N/\sqrt{Q}$ (rpm)	$N_{PHV}$ (rpm)	D.V.		P (1)		$\frac{W\sqrt{Q}}{\delta TH}$ (lb/sec) (2)	$M_{TH}$	$M_{PTH}$	Acoustic Probe
							BP	M	$\frac{P_T}{P_{BARO}}$	$\frac{P}{P_{BARO}}$				
Bellmouth Inlet Takeoff Operating Line - 8/13/74	747	5842	91.2	1507	9694	9870	63	63	1.616	226.2				
	749	5935	91.1	1505	9679	9855	63	63	1.622	228.8				
	750	-----	91.1	1506	9684	9860	63	63						*
	752	5886	90.6	1497	9629	9889	52	49	1.613	229.7				
	753	5886	90.6	1497	9629	9889	52	49	1.613	229.7				
	754	5886	90.6	1497	9629	9889	52	49	1.613	229.7				
	755	5886	90.6	1497	9629	9889	52	49	1.613	229.7				
	756	2710	62.7	1037	6668	6848	70	70	1.178	172.0				
	757	2710	62.7	1037	6668	6848	70	70	1.178	172.0				
	758	2710	62.7	1037	6668	6848	70	70	1.178	172.0				
	759	2710	62.7	1037	6668	6848	70	70	1.178	172.0				
	760	7077	99.9	1651	10619	10920	52	49	1.802	251.8				
	761	7022	99.9	1651	10620	10921	51	49	1.825	251.6				
	766	7165	99.9	1651	10622	10923	51	49	1.828	252.0				
	767	4012	76.9	1271	8176	8400	51	49	1.367	190.1				
	768	3132	69.1	1142	7343	7544	51	49	1.263	169.8				
	768A	-----	69.2	1144	7355	7534	51	49	1.270	169.8				
	769	-----	53.3	882	5674	5800	51	49	1.144	130.3				
	770	-----	77.0	1272	8178	8402	51	49	1.368	190.2				
	771	7441	103.2	1706	10973	11265	51	49	1.871	256.6				
	772	7610	106.2	1755	11284	11585	51	49	1.889	259.9				
	773	7589	106.2	1755	11286	11577	51	49	1.885	259.7				
	774	7451	103.3	1707	10979	11262	51	49	1.874	256.4				
	775	-----	69.5	1146	7372	7534	51	49	1.272	169.8				
	776	1989	53.3	880	5662	5806	51	49	1.144	130.3				
	777	3118	69.2	1144	7357	7545	51	49	1.27	169.8				

\* Aero Data Not Available

\*\* Full Scale Extrapolations Not Available.

(1)  $\frac{P_T}{P_{BARO}}$  is the fan duct strut total pressure to barometric pressure and must be correlated to obtain fan bypass ratio. The total-pressure measurements were made with a total-pressure probe attached to the leading edge of a fan strut so as to measure pitch line total pressure.

(2)  $\frac{W\sqrt{Q}}{\delta TH}$  is the inlet throat flow and not fan face flow (no recovery correction). Can be used along with  $\frac{ZN}{\sqrt{Q}}$  to enter Figure 1 for an approximate operating point on the overall fan stage performance map.

(3) See Volume V, Section 1 - Results and Analysis, Section IV-B.

(4) Same as inlet probe.

Table IV. Test Summary, Front Drive.

Configuration	Reading	FGK (lb)	% $N/\sqrt{B}$	$V_T$ (ft/sec)	$N/\sqrt{B}$ (rpm)	$N_{PHY}$ (rpm)	$\frac{W\sqrt{B}}{\delta}$ (lb/sec)	$\frac{P_{W13}}{P_{12}}$	CORE D.V.	Acoustic Probe
Treated with splitter Takeoff nozzle 6-18-75	40	6025	92.5	1530	9882	10117	231	1.573	49	
	41	7040	100.3	1655	10700	10955	251	1.71	49	
	42	7610	106.5	1770	11373	11645	261	1.779	49	
	43	7040	100.3	1670	10721	10965	251	1.71	49	
	44	7610	106.5	1765	11353	11631	261	1.779	49	
	45	6025	92.5	1530	9880	10106	231	1.573	49	
	46	4852	84.2	1400	8993	9206	211	1.436	49	
	47	3188	69.4	1152	7415	7588	172	1.256	49	
	48	1989	53.3	885	5693	5822	125	1.142	49	
	49	3188	69.4	1149	7389	7585	172	1.256	49	
	51	1989	53.3	886	5702	5822	125	1.142	49	
	52	4852	84.2	1400	9017	9203	211	1.436	49	
	53	6025	92.5	1530	9882	10105	231	1.573	49	Fan face probe
	54	6025	92.5	1530	9882	10105	231	1.573	49	Strut probe
	55	6025	92.5	1530	9882	10105	231	1.573	49	Nozzle probe
Treated with splitter Approach nozzle 6-19-75	63	2802	62.9	1042	6706	6818	170	1.164	70	Fan face probe
	64	2802	62.9	1042	6706	6818	170	1.164	70	Strut probe
	65	2802	62.9	1042	6706	6818	170	1.164	70	Nozzle probe
	74	2922	65.2	1085	6971	7083	176	1.175	70	
	75	2794	64.1	1065	6853	6965	173	1.169	70	
	76	2802	62.7	1042	6706	6814	170	1.164	70	
	77	2455	60.0	990	6362	6466	162	1.148	70	
	78	2330	58.5	972	6248	6354	158	1.14	70	
	79	2922	65.2	1078	6927	7053	176	1.175	70	
	80	2794	64.1	1065	6849	6959	173	1.169	70	
	81	2802	62.7	1042	6704	6814	170	1.164	70	
	82	2455	60.0	986	6347	6461	162	1.148	70	
	83	2330	58.5	970	6239	6340	158	1.14	70	
Treated with splitter Cutback nozzle 6-20-75	95	5321	86.9	1440	9276	9517	231	1.385	63	Fan face probe
	96	5321	86.9	1440	9276	9517	231	1.385	63	Strut probe
	97	5321	86.9	1440	9276	9517	231	1.385	63	Nozzle probe
	107	3361	69.5	1152	7427	7618	188	1.245	63	
	108	4491	79.5	1321	8504	8723	211	1.316	63	
	109	5321	86.9	1442	9293	9530	231	1.385	63	
	110	5724	92.5	1535	9880	10134	246	1.44	63	
	111	6468	99.5	1655	10674	10927	256	1.495	63	
	112	5724	92.5	1513	9873	10108	246	1.44	63	
	113	6468	99.5	1650	10635	10886	256	1.495	63	
	114	5321	86.9	1440	9289	9518	231	1.385	63	
	115	4491	79.5	1318	8489	8695	211	1.316	63	
	116	3361	69.5	1152	7423	7603	188	1.245	63	

Table IV. Test Summary, Front Drive (Concluded).

Configuration	Reading	FGK (lb)	% $N/\sqrt{\theta}$	$V_T$ (ft/sec)	$N/\sqrt{\theta}$ (rpm)	$N_{PHY}$ (rpm)	$\frac{W\sqrt{\theta}}{t}$ (lb/sec)	$\frac{P_{W13}}{P_{12}}$	CORE D.V.	Acoustic Probe
Hardwall Cutback nozzle 7-9-75	118	5321	86.9	1440	9284	9456	231	1.385	63	Fan face probe Strut probe Nozzle probe
	119	5321	86.9	1440	9283	9440	231	1.385	63	
	120	5321	86.9	1440	9283	9440	231	1.385	63	
	131	3361	69.5	1150	7400	7495	188	1.245	63	
	132	4491	79.5	1319	8481	8569	211	1.316	63	
	133	5321	86.9	1440	9274	9370	231	1.385	63	
	134	5724	92.4	1532	9865	9960	246	1.44	63	
	135	6468	99.5	1650	10625	10726	256	1.495	63	
	136	5724	92.4	1532	9865	9960	246	1.44	63	
	137	6468	99.5	1650	10617	10729	256	1.495	63	
	138	5321	86.9	1440	9266	9386	231	1.385	63	
	139	4491	79.5	1318	8476	8565	211	1.316	63	
	140	3361	69.5	1150	7400	7491	188	1.245	63	
	Hardwall Approach nozzle 7-10-75	141	2330	58.5	968	6236	6286	158	1.14	
142		2455	60.0	995	6400	6450	162	1.148	70	
143		2802	62.7	1042	6696	6770	170	1.164	70	
144		2794	64.1	1060	6826	6890	173	1.169	70	
145		2922	65.2	1078	6939	7007	176	1.175	70	
146		2794	64.1	1060	6839	6893	173	1.169	70	
147		2922	65.2	1080	6950	7009	176	1.175	70	
148		2802	62.7	1039	6684	6740	170	1.164	70	
149		2455	60.0	993	6388	6443	162	1.148	70	
150		2330	58.5	966	6219	6279	158	1.14	70	
151		2802	62.7	1039	6685	6748	170	1.164	70	
152		2802	62.7	1039	6685	6748	170	1.164	70	
153		2802	62.7	1039	6685	6748	170	1.164	70	
Hardwall Takeoff nozzle 7-10-75		157	1989	53.3	870	5691	5735	125	1.142	49
	158	3188	69.4	1150	7416	7473	172	1.256	49	
	159	4852	84.2	1395	8990	9052	211	1.436	49	
	160	6025	92.5	1535	9874	9955	231	1.573	49	
	161	7040	100.3	1664	10707	10794	251	1.71	49	
	162	7610	106.5	1768	11366	11459	261	1.779	49	
	163	3188	69.4	1150	7416	7467	172	1.256	49	
	164	1989	53.3	870	5691	5737	125	1.142	49	
	165	4852	84.2	1395	8990	9059	211	1.436	49	
	166	6025	92.5	1535	9874	9956	231	1.573	49	
	167	7040	100.3	1664	10698	10791	251	1.71	49	
	168	7610	106.5	1768	11365	11460	261	1.779	49	
	169	6025	92.5	1535	9869	9955	231	1.573	49	
	170	6025	92.5	1535	9869	9955	231	1.573	49	
171	6025	92.5	1535	9869	9955	231	1.573	49		

Table V. Farfield Narrowbands for Angles where PNL is a Maximum at Critical Operating Conditions.

Vehicle Position	Configuration		Rdg.	Angle
Rear Drive	Takeoff	Baseline	726	50°
		Accelerating	431	50°
		Hybrid	299	50°
	Cutback	Baseline	673	50°
		Accelerating	514	50°
		Hybrid	343	50°
	Approach	Baseline	646	50°
		Accelerating	568	50°
		Hybrid	254	50°
Front Drive	Takeoff	Hardwall	160	110°
		Treated	40	110°
	Cutback	Hardwall	133	120°
		Treated	109	120°
	Approach	Hardwall	143	120°
		Treated	76	120°

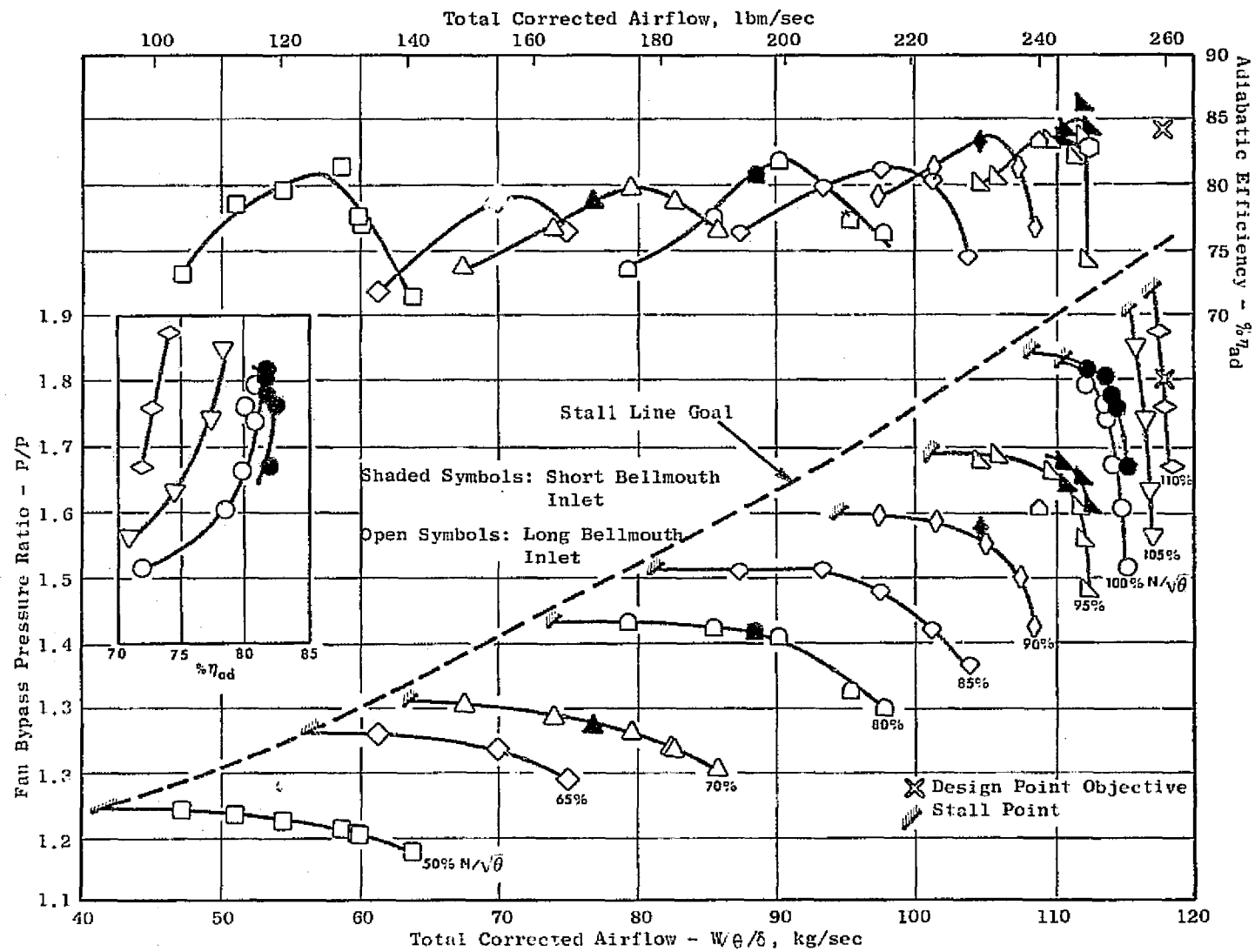
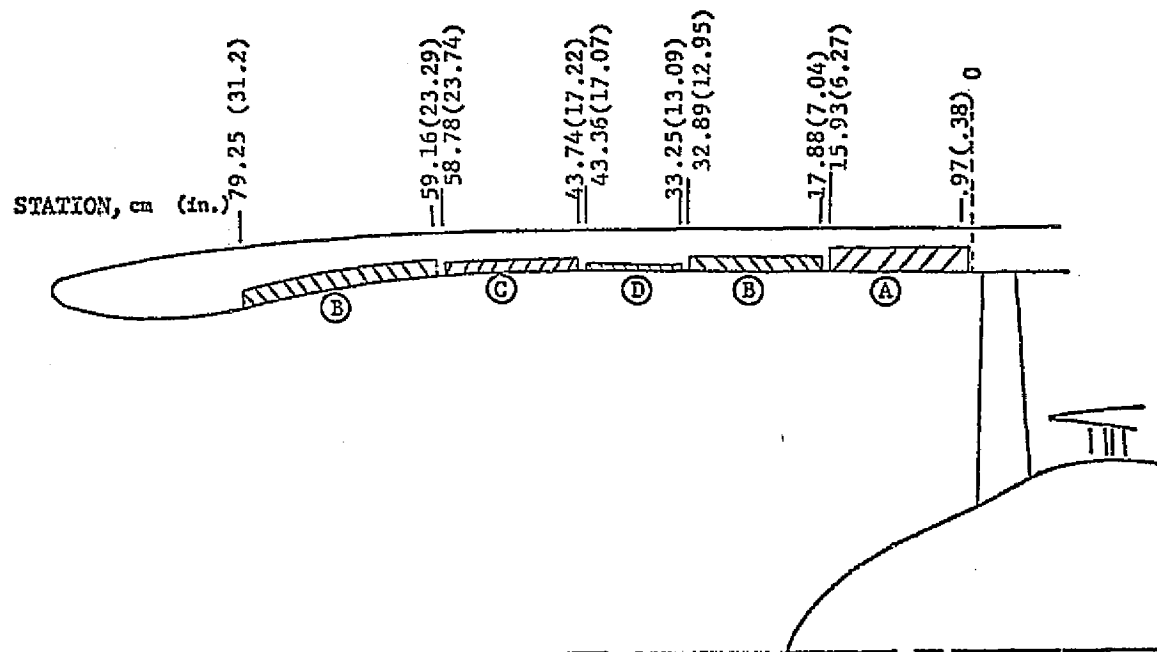


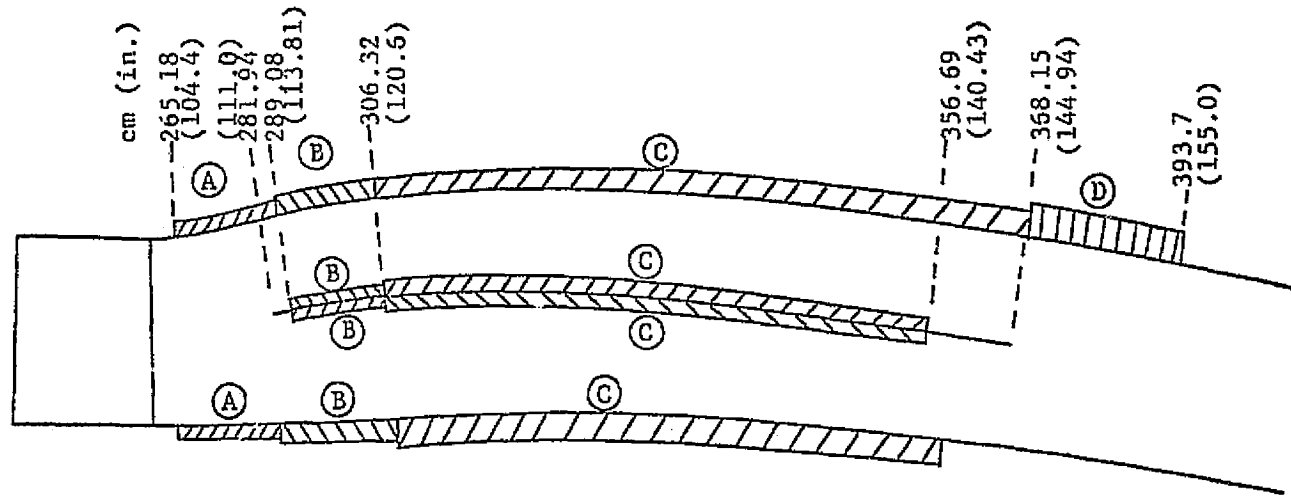
Figure 1. Bypass Performance Map.



ACOUSTIC TREATMENT	t , cm (in) <sup>a)</sup>	d , cm (in) <sup>a)</sup>	OPEN AREA		S , cm (in) <sup>a)</sup>
			BEFORE BOND.	AFTER BOND.	
A	0.036 (.014)	0.058 (.023)	6.7±0.2%	6.0±0.2%	2.29 (.90)
B	0.036 (.014)	0.058 (.023)	6.7±0.2%	6.0±0.2%	0.94 (.37)
C	0.036 (.014)	0.058 (.023)	6.7±0.2%	6.0±0.2%	0.71 (.28)
D	0.036 (.014)	0.058 (.023)	6.7±0.2%	6.0±0.2%	0.36 (.14)

- a) t = face plate thickness, cm (in.)  
d = hole diameter, cm (in.)  
S = cavity depth, cm (in.)

Figure 2. Fan Scale-Model, Variable-Geometry Inlet Treatment Design.



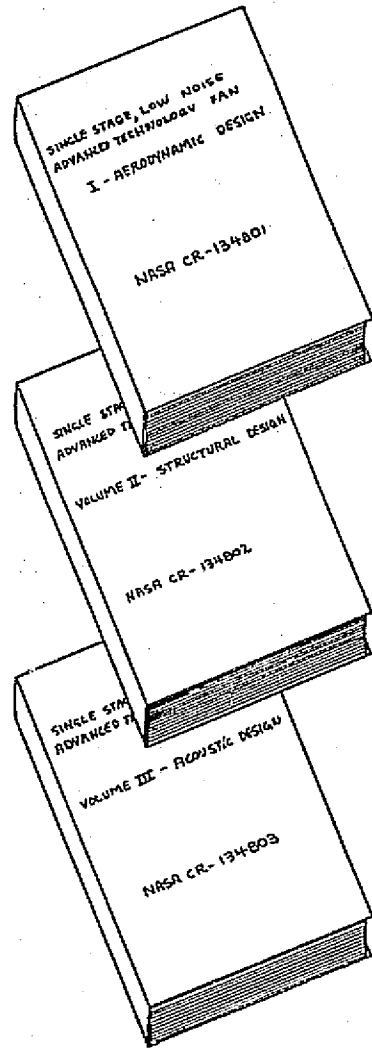
NOTE : Dimensions are Relative to Fan Blade Leading Edge at the Hub.

ACOUSTIC TREATMENT	a) t, cm (in.)	d <sup>a)</sup> , cm (in.)	OPEN AREA		S <sup>a)</sup> , cm (in.)
			BEFORE BOND.	AFTER BOND.	
A	0.046 (.018)	0.069 (.027)	17.0±2.0%	≥ 15.0%	0.24 (.09)
B	0.046 (.018)	0.069 (.027)	17.0±2.0%	≥ 15.0%	0.36 (.14)
C	0.046 (.018)	0.069 (.027)	17.0±2.0%	≥ 15.0%	0.97 (.38)
D	0.046 (.018)	0.152 (.060)	11.0±1.0%	≥ 10.0%	2.54 (1.0)

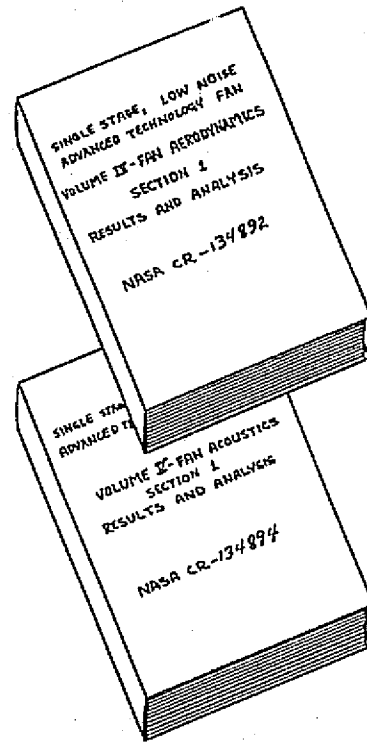
a) t = face plate thickness  
d = hole diameter  
S = cavity depth

Figure 3. Fan Scale-Model Exhaust Duct, Acoustic Treatment Design.

**DESIGN REPORTS**



**ANALYSIS (FINAL) REPORTS**



**DATA REPORTS**

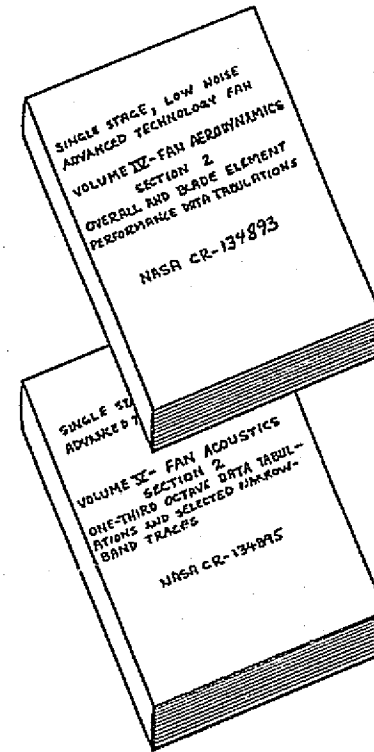


Figure 4. Description of Advanced Technology Fan Reports.



SECTION III

ONE-THIRD OCTAVE DATA - REAR DRIVE

PRECEDING PAGE BLANK NOT FILLED

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH B DAY 1 HR. 14.8  
 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	71.7	71.9	70.7	70.8	71.1	69.6	73.9	69.6	68.9	68.8	68.0	68.0	67.7	68.9	68.8	119.4
63	69.9	64.8	75.0	70.1	73.2	71.0	74.1	62.8	66.9	75.1	75.1	66.3	62.8	67.2	65.0	121.0
RADIAL 100. FT. ( 30. M)	80	62.4	64.8	64.0	62.9	62.2	60.7	71.7	60.4	60.6	60.7	60.6	59.4	60.0	60.5	113.4
VEHICLE ATT	100	67.7	65.8	64.8	65.9	66.2	64.1	71.2	61.7	63.2	63.2	62.1	65.1	63.0	64.9	115.2
CONFIC APP	125	65.3	63.1	60.3	63.0	61.7	59.1	66.1	58.1	58.3	59.7	60.4	60.3	61.1	59.4	110.9
LOC PTO	160	62.6	60.8	62.9	62.8	63.4	60.0	68.1	60.7	59.8	59.9	60.0	62.1	60.7	61.3	112.1
DATE 7/12/74	200	69.8	70.0	69.4	68.0	68.3	66.8	69.1	63.8	62.0	61.3	60.5	62.0	60.7	62.3	114.9
RUN 246	250	76.1	74.9	75.2	73.9	74.4	72.9	72.1	70.1	68.3	66.0	64.4	64.4	63.8	66.0	120.0
TAPE A956	315	85.9	82.9	83.5	83.9	85.4	84.7	84.1	82.9	80.1	79.4	76.4	73.1	71.9	77.4	131.2
BAR 29.0 HG	400	70.5	69.9	71.3	70.7	72.0	69.9	69.9	68.0	66.6	66.1	65.1	66.1	65.8	64.9	118.0
(98664. N/M2)	500	70.6	68.8	68.9	68.7	71.2	68.6	67.8	70.8	66.9	64.1	66.3	69.2	67.5	66.8	118.3
TAMB 73. DEG F	630	83.1	83.1	83.2	82.1	82.4	78.4	79.5	79.1	76.2	73.3	74.3	75.5	73.1	72.6	128.1
(296. DEG K)	800	73.8	72.7	74.0	74.1	73.4	71.9	72.1	69.9	68.4	67.0	68.1	67.2	66.1	65.3	120.1
THET 62. DEG F	1000	79.9	78.3	77.2	77.4	77.5	77.1	76.4	73.8	72.3	71.4	70.4	71.6	70.1	67.4	124.2
(290. DEG K)	1250	78.8	77.0	77.2	76.2	75.2	75.1	75.2	72.1	71.1	69.1	69.4	71.1	70.9	70.1	123.1
HACT10.99 GH/M3	1600	76.8	75.9	75.0	74.2	72.9	73.2	70.2	68.4	66.3	66.5	69.4	68.0	67.3	67.2	121.3
(.01099 KG/M3)	2000	77.1	76.1	76.2	75.1	73.6	72.2	72.3	69.2	68.6	68.3	67.3	68.3	70.2	68.4	121.5
NFA 6871. RPM	2500	78.6	77.1	76.1	74.9	73.3	73.0	71.0	68.9	68.3	66.0	66.0	68.3	68.9	68.9	121.2
( 719. RAD/SEC)	3150	82.0	79.1	78.6	76.4	75.6	72.9	74.4	71.3	68.5	66.2	64.5	68.7	66.9	65.5	122.7
NFK 6780. RPM	4000	83.8	83.0	81.1	79.2	75.2	73.7	74.8	72.0	70.1	66.1	67.3	69.5	70.9	69.0	124.7
( 710. RAD/SEC)	5000	83.0	81.5	78.6	77.5	80.7	76.5	75.5	73.3	75.4	72.5	73.7	73.5	74.0	72.5	126.6
NFD1062.9. RPM	6300	81.3	80.4	78.8	74.3	74.8	72.3	71.7	69.5	67.4	65.7	66.6	66.7	67.4	64.7	122.6
(1113. RAD/SEC)	8000	79.4	78.3	75.6	72.5	74.8	71.4	71.4	68.2	65.6	63.8	63.7	65.9	63.2	63.5	121.7
NO. OF BLADES 44	10000	78.3	76.5	73.6	71.3	72.0	69.5	69.8	67.3	64.8	64.8	63.8	65.6	65.2	62.8	121.0
16000	73.9	73.1	70.5	67.2	67.7	67.3	66.7	64.3	62.4	63.3	63.5	62.8	62.4	59.3	60.6	119.3
20000	70.1	69.6	67.4	64.3	65.9	64.6	67.5	63.3	61.3	67.5	67.9	64.5	64.2	62.5	64.5	121.5
OVERALL MEASURED	93.0	91.9	91.1	90.0	91.4	88.8	90.1	88.1	87.0	86.1	85.6	86.2	85.9	85.1	86.1	126.8
OVERALL CALCULATED	93.0	91.5	90.9	89.8	90.3	88.6	88.9	86.8	84.8	84.3	83.5	83.2	82.5	82.8	82.5	137.5
PND8	106.0	104.8	103.6	102.0	102.2	99.4	99.5	96.8	96.6	94.5	94.9	95.5	95.4	94.5	93.8	

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	72.4	71.9	70.7	71.6	72.0	70.7	72.9	69.6	69.7	70.0	68.1	68.8	68.5	69.1	69.0	119.7
	63	69.9	69.7	75.0	70.8	73.1	70.9	72.9	62.9	68.0	75.1	74.3	67.3	63.8	68.0	65.3	120.8
RADIAL 100, FT.	80	64.3	65.7	64.7	63.8	63.8	61.9	70.0	62.4	62.9	62.0	61.7	60.7	61.3	61.7	60.8	113.4
( 30, N)	100	69.5	67.8	66.8	66.9	68.2	66.0	70.2	62.7	65.2	66.2	65.0	66.2	65.6	65.9	69.0	116.4
VEHICLE ATT	125	66.0	64.5	62.7	63.2	63.7	62.4	65.5	58.4	61.5	63.4	61.6	61.6	62.4	60.3	62.5	112.2
CONFIG APP	160	64.6	62.8	65.1	64.0	64.1	60.7	67.1	63.2	60.8	61.2	60.3	63.0	62.9	62.2	61.1	112.7
LOC PTO	200	70.8	70.0	70.0	68.1	69.4	67.1	68.0	64.1	63.0	62.1	61.2	61.2	62.1	63.1	61.9	115.2
DATE 7/12/74	250	75.8	75.0	75.0	74.1	73.3	72.0	72.1	69.1	66.9	64.2	62.5	64.1	64.0	63.9	65.3	119.4
RUN 248	315	74.5	75.0	75.0	74.8	75.4	72.7	71.0	69.9	67.8	67.3	65.1	65.3	64.7	64.3	64.4	120.2
TAPE A956	400	71.7	70.9	71.9	71.8	71.1	68.9	68.1	65.8	69.1	64.8	64.9	65.1	64.1	63.0	63.0	117.2
BAR 29.0 HG	500	72.6	71.8	71.0	70.0	70.3	68.8	67.0	68.6	65.9	63.1	67.0	70.0	67.6	66.0	67.0	118.1
(98064, N/M2)	630	76.7	76.2	76.4	76.3	76.6	73.2	73.3	72.0	70.3	69.5	70.7	71.4	70.9	68.5	69.3	122.6
TAMB 73, DEG F	800	74.9	75.0	75.2	74.7	73.4	72.0	72.2	69.8	68.2	67.0	66.2	68.1	66.7	64.3	65.2	120.4
(296, DEG K)	1000	77.0	75.2	76.3	75.1	74.2	75.0	74.2	72.0	70.3	68.2	68.5	70.4	68.9	66.5	66.6	122.1
TWET 62, DEG F	1250	78.9	77.0	78.2	77.0	75.4	74.0	73.9	70.8	70.0	68.0	67.2	70.3	69.6	69.1	67.1	122.6
(290, DEG K)	1600	77.0	75.2	78.3	75.2	74.5	73.0	73.3	70.2	68.2	66.2	66.5	69.4	67.9	67.2	66.0	121.7
HACT10.99 GM/M3	2000	78.1	77.1	77.5	76.3	74.4	73.2	73.2	70.3	67.4	66.2	67.3	68.4	69.0	68.4	68.2	122.0
(.01099 KG/M3)	2500	79.6	79.3	78.1	76.2	75.3	74.9	71.8	69.9	67.1	67.2	66.4	68.2	67.8	68.0	67.1	122.4
NFA 6765, RPM	3150	84.1	81.2	82.4	79.5	78.9	76.1	77.1	74.0	70.3	67.4	65.3	69.3	67.1	65.5	66.2	125.4
( 708, RAD/SEC)	4000	85.9	86.0	84.1	82.1	78.2	77.3	78.1	74.9	72.9	67.0	68.2	70.2	70.7	68.3	68.2	127.4
NFK 6676, RPM	5000	85.4	85.2	82.4	80.5	83.8	80.3	79.3	75.2	77.7	72.5	72.5	73.5	72.2	71.3	70.5	129.0
( 699, RAD/SEC)	6300	84.5	83.6	82.5	78.6	78.8	75.5	74.6	72.4	70.4	67.6	66.7	66.4	67.3	63.8	64.8	125.8
NFD10628, RPM	8000	82.2	81.5	79.5	77.3	78.8	75.4	75.2	71.4	69.3	65.6	64.9	65.6	64.2	63.7	63.4	125.3
(1113, RAD/SEC)	10000	81.2	80.8	77.7	74.6	75.9	73.5	73.6	70.2	67.5	66.6	65.6	65.6	62.5	61.7	61.7	124.4
NO. OF BLADES 44	12500	77.0	76.2	74.5	71.2	71.8	70.2	70.4	67.4	65.5	63.3	63.5	61.8	63.1	59.6	60.3	122.2
	16000	73.2	72.5	70.6	67.6	66.7	67.5	68.4	65.3	65.5	69.8	66.7	63.5	65.1	61.9	63.5	123.1
	20000	69.2	69.3	66.7	64.3	66.9	67.3	69.5	66.3	66.5	72.4	71.7	67.5	67.4	63.4	66.5	127.1
OVERALL MEASURED		93.9	92.8	92.2	90.1	90.4	88.3	89.2	86.1	86.2	84.5	85.2	85.0	84.1	86.2		
OVERALL CALCULATED		93.6	92.7	91.8	89.7	89.8	87.6	87.6	84.4	83.5	82.5	82.0	82.3	81.0	80.5		137.3
PWDB		107.8	106.9	105.7	103.8	103.9	101.3	100.9	97.7	97.6	94.2	94.0	95.2	94.3	93.2		

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0.17)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	71.6	71.9	70.7	71.1	71.1	69.8	73.0	68.6	68.8	69.0	67.8	67.9	68.7	68.9	67.9	119.2	
63	69.6	65.8	75.2	71.2	74.3	70.9	73.0	62.2	67.9	76.0	66.2	64.4	66.0	68.2	65.3	120.4	
RADIAL 100. FT. ( 30. M)	80	64.2	66.5	65.5	63.8	62.9	61.5	70.8	63.7	64.5	63.6	62.7	61.9	64.3	65.0	61.7	114.5
VEHICLE ATT CONFIG APP	100	68.7	67.9	66.9	67.3	69.2	66.8	70.8	65.0	65.9	66.1	66.0	66.9	66.8	69.0	65.0	117.0
LOC PTO	125	65.0	64.5	61.3	62.5	62.5	61.5	65.6	59.4	60.7	61.5	61.4	59.6	61.3	60.3	61.3	111.4
DATE 7/12/74	160	63.8	63.2	64.9	63.1	64.5	61.1	68.1	61.8	60.1	59.9	60.0	62.1	61.9	62.0	61.2	112.6
RUN 254	200	70.7	71.0	70.2	68.9	69.6	67.0	69.1	64.7	62.0	63.0	61.2	61.3	62.0	64.0	62.0	115.5
TAPE A956	250	76.8	76.0	75.2	75.5	74.3	72.0	72.9	69.9	68.9	65.1	64.5	64.0	63.7	65.3	66.0	120.2
BAR 29.0 HG	315	75.8	74.8	76.1	76.1	75.5	73.0	72.0	70.0	68.8	67.1	65.5	65.3	65.7	64.3	65.2	120.7
(98064. N/M2)	400	71.7	71.9	72.0	71.7	71.3	68.9	69.0	66.7	65.0	63.2	65.0	65.9	65.6	63.2	63.8	117.5
TAMB 66. DEG F	500	73.6	73.7	75.8	74.8	74.2	70.7	71.0	70.8	66.1	65.1	67.0	66.8	68.7	68.0	66.0	120.2
(292. DEG K)	630	77.9	77.4	78.3	78.3	77.6	75.2	74.3	73.2	70.3	69.4	71.1	70.2	70.0	69.2	68.1	123.5
THET 61. DEG F	800	78.0	77.2	78.1	76.1	75.2	75.0	74.9	71.8	68.2	68.0	68.3	67.2	67.9	66.3	66.3	122.3
(289. DEG K)	1000	79.9	78.4	79.5	77.5	76.4	75.1	75.2	72.0	72.1	69.4	68.4	70.4	69.2	67.2	68.4	123.5
HACT 12.25 GH/M3	1250	80.9	78.2	79.2	78.2	77.4	75.9	76.1	72.9	71.4	69.2	68.3	70.1	69.9	69.2	68.0	124.0
(.01225 KG/M3)	1600	78.9	77.0	78.2	76.5	75.5	74.1	74.0	71.0	68.3	67.1	66.5	68.4	68.1	67.1	66.3	122.3
NFA 6749. RPM	2000	80.0	79.1	79.3	80.3	76.6	75.2	74.4	72.3	69.3	67.5	67.3	68.6	69.2	68.5	68.4	123.9
( 707. RAD/SEC)	2500	81.0	81.1	80.4	78.1	76.0	75.9	72.8	70.7	69.0	67.2	65.9	68.2	68.8	68.2	68.1	123.6
NFK 6704. RPM	3150	84.8	82.3	83.4	81.4	79.8	77.2	78.3	75.2	71.1	68.3	66.2	69.0	67.8	66.2	66.5	126.5
( 702. RAD/SEC)	4000	88.0	87.1	86.1	84.1	80.5	79.8	80.0	77.1	74.1	68.9	69.2	70.1	70.8	69.1	69.2	129.2
NFD 10628. RPM	5000	87.2	87.1	84.1	82.3	86.6	81.4	81.4	78.1	79.2	74.3	74.5	74.4	73.1	71.2	71.3	131.0
(1113. RAD/SEC)	6300	86.2	85.5	84.3	80.6	81.6	78.2	76.5	74.0	71.5	68.5	67.6	66.6	68.3	64.5	65.2	127.8
NO. OF BLADES 44	8000	84.9	84.2	82.4	79.5	80.4	78.3	77.3	72.9	71.2	68.1	66.5	66.3	64.9	64.1	64.4	127.5
OVERALL MEASURED	10000	83.9	82.2	80.1	78.4	79.4	76.0	76.3	72.1	70.0	68.1	66.2	65.4	65.9	63.2	62.1	126.8
OVERALL CALCULATED	16000	78.8	78.7	76.7	73.0	75.1	72.6	72.0	69.6	66.6	65.8	63.1	62.1	62.7	60.7	62.2	124.3
PND8	20000	76.4	75.4	71.9	69.9	70.8	69.4	69.8	68.5	65.6	69.8	64.6	64.9	65.4	63.9	64.6	124.3
		70.2	70.0	67.4	65.2	67.6	66.2	69.2	67.1	66.3	72.0	65.5	66.4	66.8	67.3	65.5	126.3
		94.8	94.1	94.1	92.3	92.5	89.9	89.9	88.0	87.2	87.2	84.2	84.3	84.9	84.1	85.0	126.3
		95.3	94.4	93.5	91.7	91.8	89.1	89.1	86.0	84.6	83.2	81.6	82.0	82.1	81.2	80.6	138.7
		109.2	108.2	107.6	105.8	106.2	102.7	102.7	99.5	98.8	95.5	95.1	95.4	95.0	93.6	93.4	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	71.7	71.7	70.8	70.7	70.3	69.4	72.1	68.8	68.5	69.9	66.8	67.9	67.9	67.7	66.9	118.8	
63	70.3	65.0	74.7	71.7	74.9	71.8	73.6	61.9	67.8	75.9	66.1	64.3	64.4	68.0	64.4	120.6	
RADIAL 100. FT. ( 30. M)	80	64.9	66.6	65.5	63.6	62.6	61.4	70.2	63.4	64.7	64.0	61.7	60.5	64.9	64.3	59.7	114.1
VEHICLE ATT	100	68.6	66.5	74.0	65.9	67.8	65.6	69.7	64.6	66.7	65.9	65.7	65.8	66.2	68.8	63.2	116.9
CONFIG APP	125	68.5	67.0	79.1	65.9	65.9	64.0	69.5	61.3	64.9	65.5	64.0	63.2	64.2	62.1	63.2	117.3
LOC PTO	160	64.1	62.6	67.8	62.9	63.6	60.6	67.6	61.9	60.6	61.2	59.7	62.0	61.2	61.9	60.2	112.6
DATE 7/12/74	200	70.8	69.8	70.9	67.8	68.8	65.8	68.3	64.6	61.6	62.2	59.7	60.7	60.8	62.9	60.8	114.8
RUN 255	250	77.2	74.8	76.1	74.8	74.0	71.9	71.8	70.0	68.0	65.3	64.0	64.3	63.4	64.8	65.1	119.9
TAPE A956	315	75.9	74.8	78.1	79.0	78.1	77.2	76.6	75.8	74.8	75.4	73.1	66.9	73.9	67.5	68.9	125.0
BAR 29.0 HG	400	72.8	71.8	74.9	72.8	71.8	70.6	70.4	67.8	66.8	66.0	66.0	65.7	65.8	63.8	64.1	118.7
(98064. N/M2)	500	74.9	73.6	75.8	73.8	70.5	69.7	69.3	67.6	67.6	64.2	63.9	68.6	68.0	64.6	65.6	119.0
TAMB 66. DEG F	630	88.2	85.2	84.1	80.2	77.3	75.1	75.7	72.8	71.1	70.5	70.2	71.2	71.4	67.7	68.1	125.6
(292. DEG K)	800	79.2	78.1	76.9	75.9	73.9	75.7	72.7	70.6	67.9	67.1	66.8	66.8	66.3	64.7	65.0	121.5
TWET 61. DEG F	1000	81.1	78.8	80.1	77.8	76.1	76.1	74.9	72.8	69.9	70.2	68.0	70.9	67.1	66.8	66.1	123.5
(289. DEG K)	1250	81.0	79.1	84.9	77.8	76.9	75.5	74.5	71.7	69.7	69.1	67.8	70.0	69.2	67.9	68.1	124.7
HACT12.25 GM/M3	1600	80.1	78.2	79.3	77.9	76.0	75.0	73.8	70.9	68.1	67.2	66.1	68.0	67.1	66.9	65.3	122.8
(.01225 KG/M3)	2000	80.1	78.9	79.1	79.3	75.8	74.8	73.7	72.0	68.2	67.2	66.9	68.0	68.6	67.8	67.1	123.3
NFA 6748. RPM	2500	81.2	80.1	80.9	77.7	76.7	75.6	72.5	70.5	68.5	68.2	66.0	66.7	68.1	68.8	66.9	123.5
( 707. RAD/SEC)	3150	84.2	81.3	83.1	80.3	78.8	75.8	76.9	75.1	71.1	68.5	65.2	69.0	66.4	65.8	65.1	125.7
NFK 6703. RPM	4000	87.9	87.0	85.0	82.9	80.2	79.0	78.7	75.6	72.7	68.2	68.1	69.8	69.1	67.8	67.3	128.3
( 702. RAD/SEC)	5000	86.3	85.0	83.1	81.2	85.0	80.9	79.7	77.0	78.2	73.4	73.2	73.2	72.1	71.0	70.5	129.7
NFD10628. RPM	6300	85.4	85.0	84.2	79.3	79.1	77.3	75.7	72.9	71.1	68.6	67.0	67.1	67.3	64.1	64.4	126.8
(1113. RAD/SEC)	8000	83.3	83.0	82.3	78.1	80.1	77.2	76.6	72.1	70.1	66.6	65.0	65.3	63.4	63.8	62.3	126.7
NO. OF BLADES 44	10000	83.3	81.8	79.1	77.2	77.9	75.7	74.8	71.8	68.8	67.5	65.0	65.0	64.3	62.8	61.5	125.9
OVERALL MEASURED	12500	79.1	77.6	77.8	72.4	72.7	71.5	70.5	67.8	64.8	65.1	63.0	61.7	60.1	59.7	60.2	123.3
OVERALL CALCULATED	16000	74.7	74.3	75.7	68.3	69.5	69.3	68.2	66.3	63.8	71.9	64.4	65.7	61.6	62.3	61.9	124.2
PNDB	20000	70.2	69.9	76.0	64.9	67.1	67.1	66.6	65.9	62.3	74.2	64.2	64.3	62.2	64.8	60.5	126.8
		96.0	94.8	96.3	91.9	91.8	89.7	89.8	87.0	86.0	86.3	84.2	84.2	84.1	84.9	84.1	
		95.7	94.2	94.4	91.2	91.0	88.9	88.4	85.7	84.3	84.1	81.4	81.8	81.8	80.6	79.8	
		109.3	108.1	107.7	105.0	105.1	102.4	101.7	98.9	98.2	95.3	94.3	94.9	94.3	93.2	92.5	158.4

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 8 DAY 1 HR. 14.9  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
	50	72.3	72.5	71.7	71.8	72.2	70.6	73.0	70.6	69.9	69.7	67.9	68.9	68.7	68.9	68.8	119.9
	63	69.6	65.7	75.1	71.0	75.3	71.8	73.0	62.9	67.9	77.0	67.5	64.8	65.1	67.9	65.3	121.0
RADIAL 100. FT.	80	64.4	64.7	64.6	62.8	63.2	61.5	70.6	62.5	61.9	61.9	62.1	60.7	60.3	60.6	60.8	113.4
( 30. M)	100	69.6	68.0	67.2	66.9	68.0	65.0	69.9	64.0	64.8	63.3	66.0	65.7	68.7	69.0	65.9	116.5
VEHICLE ATT	125	67.0	66.3	62.4	64.4	61.7	60.1	64.5	60.1	61.5	62.3	63.4	61.5	62.0	61.3	61.6	112.0
CONFIG APP	160	64.0	62.7	64.9	63.8	64.4	61.7	68.2	63.0	60.8	60.9	61.1	63.1	61.6	61.9	61.2	113.0
LOC PTO	200	70.8	71.8	71.2	69.0	70.3	67.9	69.3	65.0	63.0	62.4	61.2	61.2	61.7	64.0	62.2	116.0
DATE 7/12/74	250	77.8	76.9	77.1	76.1	75.3	73.8	73.1	70.9	69.9	67.1	65.1	65.1	64.7	66.3	67.3	121.3
RUN 256	315	79.7	77.2	78.1	79.0	79.2	78.9	80.3	79.3	75.1	76.4	75.2	68.9	72.9	69.0	69.8	126.7
TAPE A956	400	73.7	73.9	74.0	73.9	74.2	71.8	71.2	69.8	68.8	67.9	67.2	68.8	68.6	65.0	65.9	120.2
BAR 29.1 HG	500	74.6	73.6	74.0	71.6	72.4	71.6	69.8	70.8	68.7	69.1	67.2	69.0	67.7	67.0	68.9	119.7
(98135. N/M2)	630	92.0	90.3	87.1	82.3	80.5	78.3	77.4	77.4	75.3	72.3	73.5	73.4	71.8	71.2	73.2	128.8
TAHB 68. DEG F	800	79.7	79.2	78.3	77.3	75.5	73.9	73.0	72.1	68.8	67.3	68.2	67.0	66.9	66.2	66.0	122.2
(293. DEG K)	1000	79.9	79.5	80.5	79.1	79.5	78.1	78.5	74.2	73.1	70.3	69.3	72.4	71.1	68.6	67.3	125.6
TWET 60. DEG F	1250	82.8	81.0	80.1	80.0	79.4	76.9	75.4	73.1	71.2	69.1	69.1	71.2	71.6	69.5	69.1	125.0
(289. DEG K)	1600	79.1	79.0	79.3	78.1	77.7	76.2	75.3	72.1	69.3	68.3	67.4	69.3	69.0	67.2	67.1	123.8
HACT10.93 GM/M3	2000	80.4	79.1	79.5	78.2	77.5	76.0	75.4	72.2	70.3	67.2	67.4	68.7	69.1	69.3	69.5	124.0
(.01093 KG/M3)	2500	80.7	80.8	79.9	78.9	77.2	76.9	74.1	71.9	70.1	67.1	68.1	68.4	68.6	68.1	69.0	124.2
NFA 6850. RPM	3150	84.1	82.5	82.3	80.2	79.9	77.2	77.1	75.3	70.3	68.4	66.3	69.3	67.8	66.2	66.3	126.0
( 717. RAD/SEC)	4000	86.8	86.0	84.4	82.8	79.2	77.8	78.0	75.7	72.8	68.0	68.2	70.5	70.7	69.1	69.1	127.8
NFK 6791. RPM	5000	86.1	85.2	82.5	81.2	84.6	79.2	79.4	76.3	77.6	73.1	73.4	74.5	73.9	72.5	71.4	129.4
( 711. RAD/SEC)	6300	85.0	84.2	82.7	78.4	79.7	76.5	75.3	73.2	70.6	67.4	67.4	67.6	67.0	64.4	65.4	126.3
NFD10628. RPM	8000	83.3	82.5	79.4	77.3	78.9	76.1	75.5	71.4	70.3	65.5	65.6	65.7	64.5	63.5	63.5	125.5
(1113. RAD/SEC)	10000	82.8	81.3	78.8	75.2	76.7	73.4	74.4	70.4	68.6	66.4	65.8	65.7	65.4	63.4	62.3	124.9
NO. OF BLADES 44	12500	78.3	77.4	74.1	71.1	72.6	71.2	70.3	69.0	66.1	67.3	63.3	63.3	63.0	60.4	61.4	122.8
	16000	74.1	74.0	71.2	69.1	69.4	68.3	69.5	68.1	66.5	72.0	64.7	66.6	65.9	64.5	65.2	124.4
	20000	69.9	70.2	67.3	65.2	68.5	66.9	70.2	68.2	67.2	75.3	66.4	68.2	66.9	65.5	66.2	127.8
OVERALL MEASURED		96.9	95.1	93.3	91.1	91.5	90.2	91.0	87.9	87.2	86.2	85.2	85.2	85.9	85.2	86.1	
OVERALL CALCULATED		96.5	95.3	93.7	91.5	91.6	89.2	89.2	86.9	85.0	84.6	82.7	83.0	82.9	81.7	81.7	
PNDP		109.0	108.1	106.8	105.1	105.4	101.9	101.9	99.3	98.4	99.2	95.1	96.0	95.6	94.3	94.0	138.8

 REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 8 DAY 1 HR. 14.9  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
	50	72.8	71.9	71.0	71.2	70.7	70.2	73.2	69.8	70.2	69.2	66.7	67.9	68.1	69.0	67.8	119.4
	63	69.0	65.1	75.1	71.4	73.8	71.2	74.2	62.9	68.7	76.3	65.8	65.1	63.4	68.2	64.8	120.7
RADIAL 100. FT.	80	64.7	66.9	65.7	65.8	62.8	61.1	70.8	63.5	67.0	64.8	61.9	61.7	65.9	67.9	61.6	115.3
( 30. H)	100	69.1	66.9	66.3	66.3	68.8	66.3	71.1	63.8	66.5	66.2	65.1	65.3	66.2	70.2	65.7	116.9
VEHICLE ATT	125	69.3	67.3	64.3	64.6	66.3	64.7	69.5	61.3	63.9	64.9	63.1	62.5	64.3	63.4	64.3	114.6
CONFIG APP	160	64.2	63.0	65.0	63.1	63.8	61.1	68.1	62.8	60.4	60.3	60.8	62.3	61.3	61.5	60.7	112.6
LOC PTO	200	71.0	70.3	70.2	69.2	69.0	67.2	69.3	64.8	63.7	62.6	60.9	61.1	61.1	64.5	61.8	115.6
DATE 7/12/74	250	76.9	76.0	75.0	74.3	72.8	72.0	72.1	69.8	68.5	65.3	63.0	64.3	63.0	66.1	65.0	119.6
RUN 257	315	76.2	75.3	75.1	75.1	75.1	72.1	71.4	69.8	68.5	67.5	65.1	65.1	64.2	63.6	64.2	120.2
TAPE A956	400	72.1	71.4	72.2	72.3	71.0	69.3	69.4	65.9	64.2	63.1	62.8	65.0	63.1	63.2	62.8	117.2
BAR 29.1 HG	500	74.7	74.1	75.0	74.2	72.9	70.0	70.2	67.9	67.1	65.3	66.9	69.9	67.1	66.3	65.9	119.6
(98135. N/M2)	630	78.6	77.5	78.5	77.5	77.5	73.7	74.6	72.1	71.7	70.7	70.3	70.6	70.5	67.6	68.0	123.3
TAMB 68. DEG F	800	78.1	77.5	78.3	77.4	74.9	76.3	75.1	70.8	70.3	69.2	66.9	68.3	67.4	66.3	66.2	122.7
(293. DEG K)	1000	80.7	78.6	80.3	78.7	77.2	76.3	76.4	73.2	71.3	69.6	69.3	71.3	69.6	67.3	67.1	124.2
THET 60. DEG F	1250	80.5	79.4	80.1	78.5	78.0	77.3	77.1	73.7	72.5	70.1	68.3	70.3	70.3	68.2	67.9	124.7
(289. DEG K)	1600	80.2	77.3	78.4	77.4	76.0	75.8	74.5	70.9	69.7	67.6	66.2	68.3	67.3	66.6	66.0	122.8
HACT10.93 GM/M3	2000	80.4	79.4	79.6	79.6	76.3	75.7	74.7	72.3	69.7	67.7	67.3	68.4	67.6	67.8	69.2	123.8
(.01093 KG/M3)	2500	81.1	81.2	79.1	77.4	76.9	76.2	73.3	71.1	69.2	67.2	66.9	68.3	67.4	67.2	67.7	123.5
NFA 6714. RPM	3150	84.3	82.2	82.6	80.6	79.5	76.3	77.3	74.1	70.8	67.7	65.3	69.3	66.3	64.7	66.3	125.9
( 703. RAD/SEC)	4000	88.3	87.2	85.3	83.4	80.3	79.6	79.4	75.7	74.4	68.1	68.0	70.3	70.1	67.6	69.1	128.7
NFK 6656. RPH	5000	87.3	86.6	83.5	82.8	85.2	80.9	80.9	77.3	79.1	73.7	73.2	73.6	73.4	70.6	72.3	130.3
( 697. RAD/SEC)	6300	85.7	85.6	83.5	79.7	79.7	76.6	76.7	73.3	71.8	68.0	67.1	66.7	66.7	64.0	65.6	127.0
NFD10628. RPM	8000	84.4	83.3	81.5	78.6	79.6	76.8	77.6	72.0	71.6	66.8	65.2	65.8	63.4	62.9	63.5	126.7
(1113. RAD/SEC)	10000	83.6	82.6	79.5	77.7	77.4	75.8	74.6	71.3	69.7	68.1	65.2	65.5	64.5	61.9	61.5	126.0
NO. OF BLADES 44	12500	79.3	78.6	76.3	73.3	73.0	71.6	70.4	68.2	66.5	68.5	62.2	62.3	61.4	60.5	61.0	123.6
	16000	75.1	74.2	71.6	69.6	70.0	69.6	69.5	67.0	63.5	74.5	62.4	65.5	63.7	65.5	65.0	124.9
	20000	76.3	70.5	67.2	65.3	67.2	66.6	69.6	67.1	61.3	76.8	65.3	68.3	64.2	66.5	65.4	128.0
OVERALL MEASURED		95.2	93.9	93.3	91.4	91.1	90.1	90.1	87.0	85.9	87.4	84.1	85.0	85.3	84.2	84.8	
OVERALL CALCULATED		95.3	94.3	93.1	91.4	91.1	88.9	89.1	85.4	84.9	84.3	80.9	82.3	81.4	80.9	80.5	138.5
PND8		109.4	108.3	107.0	105.4	105.3	102.4	102.5	98.9	99.0	95.2	94.2	95.2	94.6	93.0	93.7	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	72.0	72.1	70.9	72.0	71.0	70.0	73.0	68.9	69.0	69.9	66.7	67.9	68.0	67.3	67.5	119.2
63	70.3	65.0	75.2	72.1	74.0	71.2	73.5	62.9	68.1	76.3	65.9	65.1	63.5	67.2	64.1	129.6
RADIAL 100. FT. ( 30. M)	80	63.6	66.8	65.9	66.0	63.8	62.2	70.8	63.6	65.8	63.0	61.8	62.9	64.8	63.2	60.5
VEHICLE ATT CONFIG APP	100	68.0	67.0	67.0	66.1	67.8	67.0	70.4	63.7	65.1	64.3	66.8	68.2	65.9	68.3	69.8
LOC PTO	125	67.2	67.3	64.6	65.4	65.1	63.7	68.5	61.0	61.4	61.6	63.2	64.3	64.4	61.5	63.3
DATE 7/12/74	160	63.9	62.3	65.3	63.3	63.8	62.1	68.4	61.8	61.2	61.1	59.8	62.0	60.4	61.0	59.9
RUN 259	200	71.2	70.3	71.2	69.6	68.9	67.2	69.3	63.8	63.5	62.3	59.3	61.0	59.9	62.7	61.8
TAPE A956	250	76.9	75.3	75.2	74.4	74.0	72.1	72.3	69.8	67.2	69.1	62.1	63.3	61.8	63.4	64.7
BAR 29.1 HG (98135. N/M2)	315	76.2	75.3	75.3	75.5	75.2	72.1	72.4	69.9	68.5	66.2	64.0	64.1	63.9	63.3	63.1
TAMB 68. DEG F (293. DEG K)	400	72.0	71.9	72.0	72.0	70.8	69.1	69.1	65.7	65.1	63.2	63.1	64.0	64.0	62.1	63.0
THET 60. DEG F (289. DEG K)	500	74.0	73.1	74.2	74.0	73.8	70.9	70.2	69.6	66.1	69.1	69.0	68.1	66.1	65.1	64.5
HACT 10.93 GM/M3 (101093 KG/M3)	630	77.1	77.4	77.5	77.6	77.5	73.6	74.5	72.1	70.6	69.6	69.1	67.2	67.5	65.5	67.0
NFA 6600. RPM ( 691. RAD/SEC)	800	76.9	76.0	78.3	77.3	75.9	75.4	74.4	70.8	70.3	68.1	67.1	67.3	67.2	65.0	65.8
NFK 6543. RPM ( 685. RAD/SEC)	1000	79.2	79.3	81.6	78.7	77.4	78.6	77.6	72.9	73.5	70.3	68.3	70.5	70.2	66.5	66.0
NFD 10628. RPM (1113. RAD/SEC)	1250	80.2	80.4	80.1	81.1	79.0	77.5	77.1	73.9	73.9	70.3	68.9	70.9	68.9	68.2	67.7
NO. OF BLADES 44	1600	79.2	78.3	79.4	77.5	75.0	76.3	75.2	72.2	70.5	67.6	67.3	68.5	67.2	66.2	65.9
OVERALL MEASURED	2000	79.5	79.4	80.4	79.6	77.6	76.6	75.6	73.3	70.6	68.6	68.2	68.3	69.3	67.3	68.0
OVERALL CALCULATED	2500	82.0	81.1	80.1	78.5	76.9	77.4	74.2	72.0	70.3	67.1	66.8	67.0	68.3	66.3	67.8
PNDB	3150	85.1	83.4	83.6	82.5	81.4	78.7	79.7	77.2	72.4	69.4	67.1	69.5	67.3	65.3	66.2
	4000	88.2	87.2	86.8	85.5	81.0	81.4	80.9	77.1	75.4	69.0	68.9	70.3	70.4	68.4	68.0
	5000	87.4	87.6	84.5	82.8	86.5	82.6	81.8	78.2	79.5	73.6	73.1	74.2	76.5	71.7	70.3
	6300	86.7	86.5	84.6	80.9	81.4	79.0	77.6	74.2	72.8	68.6	67.1	66.5	67.7	63.8	65.2
	8000	85.5	84.7	82.7	80.6	81.3	79.1	78.7	73.4	72.5	67.8	66.2	65.7	64.5	63.0	63.4
	10000	84.6	83.5	81.6	79.1	79.4	77.8	76.5	73.1	69.7	67.8	66.4	65.7	64.6	62.7	62.1
	12500	80.3	79.4	77.5	74.7	75.0	74.4	72.3	70.1	67.4	68.2	63.1	61.6	61.4	60.5	60.9
	16000	76.2	76.2	73.5	70.7	72.1	71.4	69.5	66.0	64.8	74.4	65.1	64.5	65.4	64.5	64.9
	20000	71.3	71.5	69.5	66.6	68.4	67.5	68.5	65.2	63.7	75.5	68.0	68.4	66.5	65.5	65.9
		95.9	94.3	94.1	92.4	91.8	91.3	90.1	87.9	87.3	86.3	84.0	85.1	84.2	84.2	84.8
		95.6	95.0	93.9	92.5	92.2	90.4	89.9	86.4	85.4	84.2	81.3	82.0	82.1	80.2	80.0
		109.4	108.6	107.8	106.7	106.3	103.9	103.3	99.8	99.5	95.4	94.4	95.3	96.2	93.1	92.6
																139.3



MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	
	50	71.7	71.9	71.1	71.0	70.9	70.0	73.2	68.9	69.1	70.1	66.6	67.9	67.1	67.2	67.6	119.1
	63	70.1	66.1	74.4	71.4	74.1	71.3	73.4	62.8	68.3	76.4	65.8	65.5	64.1	66.3	64.9	120.5
RADIAL 100. FT.	80	65.0	66.8	65.9	65.7	63.5	62.0	70.3	63.5	64.7	63.1	61.7	62.8	64.8	63.3	60.4	114.4
( 30. M)	100	68.9	67.0	68.0	67.3	67.8	67.0	70.6	63.8	66.1	63.5	67.8	69.0	67.2	68.4	65.7	117.0
VEHICLE ATT	125	68.4	67.6	65.6	66.4	66.0	64.7	68.7	62.1	61.3	61.7	63.3	64.5	64.5	61.5	64.3	114.3
CONFIG APP	160	63.9	63.4	65.0	63.1	63.8	61.4	67.5	62.7	60.1	60.1	59.8	62.0	61.2	61.2	61.0	112.4
LOC PTO	200	71.0	71.3	71.1	70.3	69.1	67.3	68.6	64.1	64.2	63.3	59.9	62.2	60.5	63.2	60.8	115.7
DATE 7/12/74	250	76.3	75.3	75.0	74.4	73.8	72.2	72.0	69.1	68.0	65.3	63.2	64.0	63.1	64.0	64.8	119.6
RUN 260	315	76.2	75.3	76.3	76.6	75.0	73.3	72.1	69.9	68.4	67.6	64.9	65.2	64.1	63.4	63.8	120.7
TAPE A956	400	73.0	71.9	73.2	72.4	71.9	70.1	69.9	67.0	66.2	64.4	63.8	65.2	65.1	63.1	63.7	118.0
BAR 29.1 HG	500	74.7	73.9	75.0	74.9	73.9	72.2	72.9	68.7	68.2	68.1	69.9	70.0	66.9	65.4	64.9	120.7
(98135. N/M2)	630	80.3	79.3	78.8	79.8	80.3	76.5	75.2	73.3	72.3	71.5	71.1	69.2	68.2	66.7	68.5	124.7
TAMB 67. DEG F	800	80.1	79.4	80.2	80.5	81.2	77.4	76.1	73.7	72.3	70.5	67.9	71.3	69.4	66.3	70.0	125.4
(293. DEG K)	1000	80.2	80.6	82.4	81.7	79.2	79.9	78.6	75.1	73.4	71.5	70.5	72.3	71.5	68.5	69.2	126.6
TWET 59. DEG F	1250	82.0	80.3	82.1	81.5	80.3	77.5	77.0	73.8	72.3	71.4	69.8	71.3	71.3	69.4	68.0	126.0
(288. DEG K)	1600	79.2	78.5	79.4	80.4	78.4	76.3	75.2	71.8	70.3	68.4	67.2	68.2	68.5	66.6	65.9	124.2
HACT10.49 GM/M3	2000	81.4	81.6	80.5	80.5	78.6	76.7	76.6	72.9	70.6	70.5	68.3	68.5	68.4	67.6	67.9	125.1
(101049 KG/M3)	2500	82.2	82.0	81.6	79.5	77.2	77.5	73.9	72.6	70.3	68.2	66.8	67.1	68.4	67.4	67.9	124.7
NFA 6598. RPM	3150	86.2	84.3	84.7	81.7	81.2	79.5	79.6	77.2	73.3	69.7	67.1	69.5	67.5	65.7	66.3	127.9
( 691. RAD/SEC)	4000	89.3	89.3	87.3	85.3	82.1	82.5	81.3	78.0	76.1	70.5	69.1	71.3	71.4	68.5	68.9	130.7
NFK 6548. RPM	5000	88.5	88.6	85.5	84.8	87.4	83.7	82.4	78.4	80.5	75.8	74.4	74.4	73.6	71.4	71.0	132.2
( 686. RAD/SEC)	6300	88.5	87.6	85.9	82.7	82.4	79.9	78.9	75.4	73.6	69.9	68.5	67.7	67.7	64.0	65.2	129.4
NFD10628. RPM	8000	86.4	85.5	83.6	81.6	82.4	80.9	79.8	75.3	73.4	69.7	67.5	66.5	64.9	63.7	64.5	129.4
(1113. RAD/SEC)	10000	85.7	84.7	81.9	80.7	80.5	79.0	78.1	74.3	71.5	69.7	67.5	65.8	64.8	62.7	62.2	128.8
NO. OF BLADES 44	12500	81.6	81.4	78.5	76.7	76.3	75.7	73.9	71.3	68.7	66.6	64.3	62.6	61.5	59.9	60.2	126.4
	16000	78.6	77.9	74.7	72.5	72.6	72.7	70.9	69.3	65.7	74.7	65.2	65.6	63.6	62.8	62.5	126.5
	20000	72.6	72.4	70.6	67.8	69.7	69.7	69.7	68.3	63.9	75.6	65.2	68.4	64.5	65.7	65.2	128.1
OVERALL MEASURED		96.2	96.0	94.2	94.2	93.2	91.5	91.1	87.8	87.1	87.3	85.1	85.2	84.3	84.1	85.9	
OVERALL CALCULATED		96.8	96.3	95.0	93.6	93.3	91.4	90.5	87.1	86.1	85.1	82.1	82.8	82.0	80.5	80.7	140.3
PNOB		110.4	110.1	108.8	107.3	107.4	104.8	103.9	100.5	100.3	96.9	95.4	95.8	95.2	93.3	93.3	

REPRODUCIBILITY OF THE ORIGINAL DATA IS POOR

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0, )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
	50	72.8	71.9	70.8	72.0	71.7	70.2	73.2	69.7	69.9	70.1	67.6	68.2	68.1	68.3	68.6	119.6
	63	69.4	66.3	74.3	70.4	74.1	71.4	74.4	64.1	68.3	76.4	65.9	65.1	63.9	66.5	64.9	120.7
RADIAL 100. FT.	80	65.0	67.7	66.7	66.1	63.5	61.8	71.0	64.4	65.8	64.0	61.8	62.8	64.9	63.9	61.7	115.0
( 30. M)	100	69.1	68.0	67.2	67.4	68.8	66.1	70.1	63.6	65.2	69.6	66.1	68.2	66.4	68.4	65.7	116.7
VEHICLE ATT	125	69.2	68.5	66.5	66.8	65.4	64.7	69.6	62.3	61.6	62.7	63.1	64.3	64.6	62.5	64.3	114.6
CONFIG APP	160	64.2	63.0	65.2	63.1	64.1	61.4	68.3	62.0	60.0	60.6	60.0	62.1	61.1	61.4	61.0	112.6
LOC PTO	200	70.0	70.1	69.1	68.2	68.3	66.4	68.5	64.1	62.3	62.8	60.9	61.0	61.5	62.7	61.0	114.8
DATE 7/12/74	250	76.9	75.2	74.9	74.2	73.7	72.0	72.3	68.9	68.0	69.6	64.1	64.0	63.0	64.1	65.7	119.6
RUN 261	315	76.2	76.3	76.3	76.4	75.9	73.4	73.2	71.0	69.1	67.8	65.2	65.1	64.4	63.4	64.8	121.2
TAPE	400	73.9	73.4	74.0	74.3	72.7	71.1	70.1	67.8	67.0	65.2	64.1	65.0	64.0	62.5	63.7	118.8
BAR 29.1 HG	500	78.0	77.1	76.8	77.1	75.0	73.1	73.2	71.9	69.1	66.1	69.9	70.1	68.0	67.2	67.6	121.9
(98135. N/M2)	630	80.8	80.5	80.7	79.9	78.5	76.4	76.3	74.2	72.3	71.5	72.1	69.4	68.6	66.7	69.0	124.9
TAMB 67. DEG F	800	80.6	79.1	80.5	80.5	78.0	76.5	75.3	71.9	70.1	69.0	69.0	68.1	68.0	65.3	68.0	124.2
(293. DEG K)	1000	81.4	81.6	83.5	82.5	80.5	80.7	79.5	74.9	73.3	71.5	70.2	71.4	69.3	68.6	69.2	127.2
TWET 59. DEG F	1250	83.2	82.3	81.3	81.4	80.2	78.7	78.2	75.8	72.9	71.3	70.1	71.9	71.1	69.1	68.8	126.4
(288. DEG K)	1600	81.7	80.3	79.8	79.7	77.1	76.5	75.2	72.0	69.4	68.2	67.2	69.1	68.1	66.6	66.2	124.1
HACT10.49 GM/M3	2000	82.5	81.5	80.9	80.7	77.4	77.5	76.7	74.0	71.5	69.0	68.1	68.3	68.7	67.8	68.9	125.2
(.01049 KG/M3)	2500	83.5	83.3	81.3	80.3	77.9	77.5	75.0	72.8	71.0	68.0	66.8	68.3	68.3	67.3	67.8	125.2
NFA 6653. RPM	3150	86.6	85.6	85.3	82.9	81.4	79.5	79.8	77.1	73.5	70.5	67.1	70.2	68.4	65.7	66.3	128.4
( 697. RAD/SEC)	4000	91.3	89.1	88.2	86.3	83.1	82.5	79.2	76.0	70.0	69.9	69.9	71.3	71.4	68.4	69.2	131.4
NFK 6602. RPM	5000	89.8	89.6	86.6	85.5	89.2	84.6	84.6	80.5	81.5	79.7	75.2	74.6	73.7	70.6	72.3	133.5
( 691. RAD/SEC)	6300	88.6	87.0	86.8	83.9	83.4	80.8	79.7	76.2	73.7	69.9	69.5	67.8	67.6	65.0	66.4	130.2
NFD10628. RPM	8000	87.8	86.4	84.4	82.9	83.6	81.6	81.8	76.5	74.3	69.8	68.4	67.8	65.8	64.6	64.2	130.6
(1113. RAD/SEC)	10000	86.4	85.6	83.5	81.7	81.3	79.8	78.9	75.5	72.5	70.6	67.6	66.7	65.5	63.6	62.5	129.8
NO. OF BLADES 44	12500	81.8	81.5	79.4	76.9	77.4	76.5	74.8	72.3	69.7	67.8	64.3	62.7	62.4	60.9	61.2	127.1
	16000	78.5	77.8	75.6	72.8	73.4	72.6	71.9	70.2	66.7	70.8	66.4	67.4	64.6	64.9	63.2	126.4
	20000	73.4	72.7	71.5	68.7	69.3	70.8	69.7	68.4	63.4	73.5	68.4	69.4	64.5	67.6	65.2	127.9
OVERALL MEASURED		97.9	97.0	95.2	94.3	93.8	92.2	92.4	89.1	88.0	88.1	85.1	85.2	84.1	83.4	85.9	
OVERALL CALCULATED		97.9	96.9	95.7	94.3	94.0	91.9	91.6	88.1	86.5	84.5	82.6	82.9	81.9	80.7	81.1	140.9
PWDB		111.9	110.5	109.6	108.1	108.4	105.4	105.3	101.6	100.9	96.9	95.9	96.0	95.2	93.0	94.0	

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	73.0	72.8	71.9	72.0	71.8	71.2	72.2	69.9	70.0	70.2	67.7	68.9	68.9	68.1	68.6	119.7
	63	70.0	66.3	75.3	72.2	74.8	72.6	73.2	63.2	68.3	77.3	67.2	65.4	64.4	66.5	63.9	121.2
RADIAL 100. FT. ( 30. M)	80	64.9	66.9	66.7	66.8	63.5	62.2	69.9	64.5	65.8	63.2	62.9	63.7	64.8	63.9	61.5	114.7
VEHICLE ATT	100	68.9	67.3	67.4	67.4	68.0	66.1	70.4	64.8	65.3	64.2	66.1	68.0	67.2	69.4	65.7	116.8
CONFIG APP	125	67.5	67.3	66.3	66.5	65.4	64.5	69.5	62.1	62.4	62.9	63.4	64.5	64.5	62.5	65.0	114.6
LOC PTO	160	64.1	64.0	66.2	63.5	63.8	62.5	68.1	61.8	61.1	62.1	60.9	63.3	62.1	62.3	61.7	113.1
DATE 7/12/74	200	71.2	71.2	71.1	69.5	69.2	67.3	68.4	63.6	62.5	62.3	61.2	61.1	61.1	62.6	61.8	115.4
RUN 262	250	76.9	76.0	76.2	75.2	73.0	72.3	72.3	69.6	68.4	65.3	63.9	64.1	63.0	63.4	65.8	120.0
TAPE A754	315	76.9	75.4	76.3	76.3	75.8	74.3	73.2	71.1	69.4	67.5	65.2	66.1	64.6	63.5	64.8	121.3
BAR 29.1 HG	400	73.8	72.9	73.0	73.1	72.8	70.4	70.3	67.6	67.1	65.4	64.1	65.3	65.0	63.1	64.1	118.5
(98135. N/M2)	500	81.0	78.9	77.1	74.1	72.7	72.0	71.1	70.6	69.0	66.1	68.9	72.0	69.0	65.1	64.9	121.1
TAMB 67. DEG F	630	80.3	79.4	78.6	78.5	78.5	77.7	76.6	73.0	72.3	70.6	72.1	71.3	69.4	66.6	68.2	124.5
(293. DEG K)	800	79.5	78.1	79.2	78.6	78.0	76.2	75.4	72.0	72.3	69.4	68.9	69.3	69.0	66.5	65.8	123.8
THET 59. DEG F	1000	80.4	81.5	81.4	80.5	78.5	78.5	79.8	75.3	73.6	70.7	70.0	71.5	69.6	67.4	67.1	126.1
(288. DEG K)	1250	82.3	82.1	81.4	81.3	80.0	78.3	78.2	75.1	73.3	71.3	69.7	71.2	71.0	69.1	67.9	126.3
HACT10.49 GH/M3	1600	80.2	78.3	78.3	78.5	76.3	76.3	75.2	71.9	69.3	67.7	67.0	69.4	67.3	66.4	66.8	123.4
(.01049 KG/M3)	2000	80.3	80.6	80.4	80.4	78.5	76.4	76.6	73.1	70.6	68.5	68.1	68.6	69.6	68.4	69.2	125.0
NFA 6646. RPM	2500	83.2	83.1	82.1	79.3	77.9	78.2	74.3	73.1	70.3	68.2	67.1	68.1	68.2	67.2	67.6	125.2
( 696. RAD/SEC)	3150	86.5	85.2	86.4	84.7	84.3	80.6	80.5	78.4	73.4	70.7	68.2	70.3	67.5	65.4	66.1	129.7
NFK 6595. RPM	4000	91.3	90.4	88.2	87.4	84.1	83.5	82.4	79.2	76.4	71.3	70.1	71.3	71.1	69.1	69.0	132.0
( 691. RAD/SEC)	5000	89.2	89.6	86.7	85.6	89.5	85.8	84.8	80.8	81.6	76.6	74.4	74.3	74.4	71.4	72.1	133.9
NFD10628. RPM	6300	89.5	88.8	86.6	84.0	83.5	81.1	81.0	77.8	74.8	70.9	70.3	68.9	68.6	64.9	66.3	130.7
(1113. RAD/SEC)	8000	87.6	87.5	85.4	84.0	84.4	82.3	82.1	76.6	75.5	70.8	69.6	68.9	66.7	65.5	65.6	131.3
NO. OF BLADES 44	10000	86.5	86.8	83.5	82.9	82.6	81.0	79.7	76.3	73.5	71.6	68.5	67.7	66.6	63.8	63.6	130.7
OVERALL MEASURED	12500	82.6	82.6	80.5	78.6	78.5	77.7	76.6	73.5	70.4	68.8	65.6	63.8	62.6	60.5	61.6	128.3
OVERALL CALCULATED	16000	79.6	79.5	76.6	74.7	74.6	74.5	73.5	70.3	67.5	73.8	64.3	66.9	64.9	64.7	65.3	127.8
PND8	20000	74.3	74.4	71.4	69.8	71.3	71.8	70.5	67.4	64.8	76.8	66.6	69.7	63.8	64.7	66.2	129.1
		98.1	97.2	96.0	94.5	94.1	92.3	92.2	88.9	88.3	86.3	84.8	86.0	84.3	83.5	85.8	
		97.8	97.4	95.8	94.5	94.6	92.4	91.9	88.3	86.9	85.4	82.6	83.3	82.3	80.7	80.9	141.4
		111.8	111.1	109.6	108.5	108.7	106.1	105.5	101.8	101.1	97.4	95.7	96.1	95.7	93.4	93.9	

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 8 DAY 1 HR. 15.0  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	
	50	72.7	72.1	71.1	71.9	71.9	71.2	72.0	69.6	70.1	70.4	67.6	69.2	68.1	69.0	68.6	119.7
	63	70.0	66.0	75.1	72.2	74.8	72.4	73.4	62.1	67.4	77.3	66.9	64.2	64.5	65.2	64.2	121.0
RADIAL 100. FT.	80	63.7	64.1	63.8	62.8	62.7	62.0	70.8	61.5	62.8	62.9	62.5	61.6	61.0	60.8	60.6	113.6
( 30. M)	100	66.9	64.9	67.2	57.3	66.8	65.4	70.2	67.7	67.0	64.5	64.9	67.2	66.4	70.3	67.0	117.0
VEHICLE ATT	125	67.4	67.4	65.3	66.5	65.0	63.8	68.7	63.3	61.6	60.5	60.4	62.3	63.7	61.7	64.0	113.7
CONFIG APP	160	64.9	63.1	65.3	62.2	63.9	62.3	68.4	61.9	61.3	61.4	60.9	63.0	62.1	61.2	60.8	112.9
LOC PTO	200	71.2	71.1	70.2	68.6	69.2	67.1	69.6	64.8	62.4	64.2	60.2	61.2	61.1	63.2	60.9	115.5
DATE 7/12/74	250	76.9	76.1	75.2	75.1	73.0	72.1	72.3	69.9	68.2	65.3	63.1	63.9	63.3	63.2	65.0	119.8
RUN 263	315	77.2	76.6	76.4	76.5	75.9	73.5	73.5	70.7	71.5	69.3	66.0	65.1	64.3	63.6	64.8	121.5
TAPE A754	400	73.9	73.1	74.2	73.1	72.1	71.3	71.3	68.9	67.0	66.3	64.8	66.2	65.3	63.3	63.7	119.0
BAR 29.1 HG	500	76.7	77.9	76.8	76.2	73.7	72.0	70.9	68.8	70.9	66.1	66.8	66.9	67.1	69.2	66.9	121.0
(98121. N/M2)	630	80.3	78.6	79.6	79.7	78.4	74.6	75.6	72.9	72.4	70.7	69.0	67.6	67.3	67.5	67.0	124.0
TAMB 65. DEG F	800	79.4	78.4	79.5	78.3	75.9	77.6	76.5	72.0	70.2	71.2	67.9	68.4	68.0	66.3	67.8	123.8
(291. DEG K)	1000	83.2	83.5	84.5	83.5	78.2	77.8	75.3	71.9	71.3	69.7	68.3	70.3	67.1	67.5	67.0	126.3
TWET 58. DEG F	1250	82.0	82.0	82.1	80.2	78.0	77.5	77.3	73.6	71.3	69.4	68.0	70.2	68.9	67.2	66.7	125.3
(288. DEG K)	1600	80.2	78.6	79.3	79.7	77.4	78.5	77.3	74.0	70.5	68.3	67.2	69.1	67.4	67.5	66.1	124.7
HACT10.35 GH/M3	2000	80.5	80.4	81.6	80.8	79.5	78.5	76.5	72.2	69.6	67.8	67.0	69.3	67.5	67.5	68.0	125.4
(.01035 KG/M3)	2500	83.0	83.2	82.2	80.5	79.2	78.2	74.3	71.6	68.9	67.2	65.8	67.0	67.9	66.2	66.7	125.4
NFA 6492. RPM	3150	90.2	88.5	88.5	85.6	84.2	80.8	81.7	78.2	72.6	70.3	68.2	70.4	68.5	65.6	66.0	130.7
( 680. RAD/SEC)	4000	92.0	91.3	90.0	88.4	85.2	84.4	83.3	80.0	77.3	71.5	70.0	71.2	71.2	69.5	69.1	133.1
NFK 6455. RPM	5000	92.3	91.6	89.6	87.8	91.5	87.8	86.6	82.2	82.5	77.9	76.2	74.5	73.6	70.6	72.0	135.7
( 676. RAD/SEC)	6500	90.5	89.8	89.8	85.9	85.5	83.7	82.7	79.6	75.6	72.7	70.5	69.7	69.7	66.8	67.2	132.7
NFD10628. RPM	8000	89.4	89.4	88.7	85.9	87.3	84.8	85.0	80.5	77.8	72.8	71.4	69.5	68.7	66.5	66.1	134.0
(1113. RAD/SEC)	10000	89.4	88.8	87.5	85.7	86.3	83.9	83.7	80.5	76.5	73.8	70.5	68.5	68.6	65.7	65.2	134.0
NO. OF BLADES 44	12500	85.2	85.6	84.7	81.4	82.3	80.6	79.6	76.3	73.4	70.5	67.4	65.4	64.4	61.8	62.1	131.5
	16000	81.4	81.5	80.2	77.7	78.4	77.9	76.5	73.9	69.6	72.8	66.2	67.6	65.6	66.7	65.5	130.4
	20000	76.5	77.5	75.3	73.4	73.2	73.4	71.7	69.3	66.4	72.7	68.1	68.6	66.7	68.4	67.4	129.6
OVERALL MEASURED		99.2	98.9	98.0	95.4	96.2	93.2	93.3	90.0	88.3	87.3	84.8	85.3	84.0	84.1	85.8	
OVERALL CALCULATED		99.5	98.9	98.2	96.1	96.2	94.0	93.3	89.6	87.6	85.5	82.7	82.7	81.9	81.1	80.9	143.1
PND8		112.8	112.1	111.4	109.7	110.2	107.6	106.8	102.8	101.6	98.2	96.3	96.0	95.1	93.2	93.8	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	72.8	71.9	70.9	72.0	70.9	70.8	73.2	69.6	69.9	70.1	66.9	67.7	68.1	68.0	69.0	119.5
63	70.1	66.1	75.3	71.3	73.1	71.3	73.5	62.0	68.1	77.3	65.9	64.2	63.4	66.2	63.9	120.7
RADIAL 100. FT. ( 30. M)	80	63.7	64.0	63.7	63.0	61.5	61.6	70.8	61.4	61.7	61.9	61.5	60.5	60.0	59.8	113.2
VEHICLE ATT	125	67.2	67.3	65.3	65.7	65.4	63.9	69.8	62.3	61.8	60.4	60.0	62.3	63.8	62.5	117.1
CONFIG APP	160	63.9	62.2	64.3	62.1	63.1	60.9	68.3	61.7	66.3	60.1	59.1	62.1	61.0	61.1	113.9
LOC PTO	200	70.2	71.1	70.4	68.4	68.1	66.3	69.3	63.8	62.4	63.2	63.2	61.2	62.4	62.3	112.3
DATE 7/12/74	250	76.8	75.2	75.2	74.2	72.8	71.9	72.3	68.8	67.0	65.3	63.0	64.4	63.5	63.1	115.3
RUN 264	315	77.2	75.2	76.1	76.4	76.1	73.3	73.4	70.7	69.1	68.3	66.1	66.4	64.3	63.2	119.4
TAPE A754	400	74.1	72.9	75.1	74.4	73.9	71.9	71.2	67.7	67.0	65.3	63.9	65.0	63.3	63.1	121.2
BAR 29.1 HG	500	76.0	75.8	77.1	76.2	74.7	75.2	74.2	71.5	68.2	66.1	68.9	70.0	69.1	69.2	119.3
(98121. N/M2)	630	80.3	79.4	79.4	78.8	78.2	74.5	75.6	73.2	73.6	70.7	68.3	67.5	67.5	66.5	122.0
TAMB 65. DEG F	800	80.1	79.6	80.5	80.5	78.0	77.4	76.5	73.0	70.3	69.4	70.0	69.1	70.3	67.3	123.9
(291. DEG K)	1000	83.4	84.2	84.6	82.7	80.2	78.8	77.6	73.9	71.5	70.6	70.3	70.1	69.4	68.6	124.7
TWET 58. DEG F	1250	83.2	83.1	82.3	82.5	80.2	79.3	78.3	73.9	73.0	70.2	69.8	71.2	71.0	68.3	126.9
(288. DEG K)	1600	81.3	79.3	79.5	80.4	79.4	77.5	77.3	73.1	70.3	68.5	67.0	69.4	68.5	66.3	126.7
HACT10.35 GH/M3	2000	80.3	80.0	81.5	80.5	80.9	79.6	77.3	74.2	71.6	70.6	68.0	69.6	68.4	67.7	125.0
(.01035 KG/M3)	2500	83.2	83.1	83.1	81.4	79.2	78.3	75.1	71.0	69.2	67.2	65.8	67.3	67.3	66.2	126.2
NFA 6435. RPM	3150	88.3	87.4	87.4	85.4	83.2	80.8	81.5	77.1	72.2	69.6	67.0	69.6	68.3	65.4	126.7
( 674. RAD/SEC)	4000	91.9	91.1	89.4	88.5	85.9	84.7	83.5	80.2	76.1	71.4	71.1	71.1	71.3	69.3	125.0
NFK 6398. RPM	5000	92.5	92.4	89.6	87.6	92.3	87.6	85.8	81.4	82.5	77.8	75.1	74.2	75.6	72.7	126.2
( 670. RAD/SEC)	6300	90.4	90.7	89.6	85.7	85.6	82.7	82.1	78.3	75.8	71.6	69.6	68.5	69.5	65.8	126.2
NFD10628. RPM	8000	89.3	89.4	88.5	85.9	86.5	84.6	84.0	79.2	77.5	72.4	71.1	69.6	68.6	67.0	125.7
(1113. RAD/SEC)	10000	89.4	88.8	86.5	86.0	85.6	82.7	82.9	79.3	75.7	72.5	70.3	67.5	67.7	64.9	130.0
NO. OF BLADES 44	12500	85.2	84.6	83.4	80.8	81.2	79.8	79.0	75.1	72.5	69.6	66.5	63.7	63.9	61.7	133.1
	16000	81.4	81.7	79.5	77.7	77.6	76.5	75.5	73.1	69.5	72.4	65.3	66.4	64.3	64.7	135.9
	20000	76.5	76.6	74.2	72.7	73.1	73.4	76.8	70.0	65.5	73.4	66.5	69.3	65.7	67.7	132.5
OVERALL MEASURED		98.9	99.0	97.3	96.4	96.0	93.3	93.3	90.0	88.0	87.3	85.1	85.2	85.1	84.3	133.6
OVERALL CALCULATED		99.4	99.1	97.8	96.1	96.5	93.8	93.1	89.0	87.4	85.3	82.6	82.8	82.6	81.2	133.3
PND8		112.7	112.2	111.0	109.8	110.8	107.5	106.5	102.3	101.6	98.1	96.0	95.8	96.3	94.1	130.6
																129.7
																129.3
																142.9

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 1 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	72.8	71.9	71.0	71.2	71.7	70.0	72.2	69.6	69.9	70.0	66.6	67.9	68.0	67.9	68.0	119.2
	63	70.1	65.1	75.4	72.2	74.1	72.4	73.4	62.9	67.1	77.3	67.1	64.2	64.4	64.4	63.0	120.9
RADIAL 100. FT.	80	63.7	63.7	62.7	62.8	61.6	61.9	70.8	60.8	61.8	61.9	60.7	60.8	60.0	59.8	60.4	113.1
( 30. M)	100	68.1	66.2	66.1	64.4	66.8	65.1	70.4	67.7	68.0	64.1	66.1	71.4	69.1	70.2	66.0	117.8
VEHICLE ATTY	125	67.4	67.3	64.3	65.4	65.1	63.5	69.8	62.0	61.3	61.5	60.4	63.6	64.4	61.5	64.0	114.0
CONFIG APP	160	64.2	62.2	64.3	63.4	63.8	61.4	68.3	61.7	60.1	60.1	59.1	62.0	61.0	61.3	60.6	112.4
LOC PTO	200	72.1	72.3	72.2	70.4	68.9	67.4	68.6	66.8	64.2	70.4	68.1	69.1	66.5	64.4	63.1	118.0
DATE 7/12/74	250	76.1	75.9	75.2	74.1	73.8	72.4	72.1	68.9	67.2	66.1	63.8	65.0	63.2	63.3	64.7	119.7
RUN 265	315	77.0	76.0	77.3	77.1	76.1	74.1	73.2	70.7	70.2	68.3	66.0	67.1	65.1	63.6	66.1	121.7
TAPE A754	400	73.1	72.2	73.0	72.1	72.0	70.3	70.0	66.7	67.1	65.4	63.8	66.1	65.2	63.2	64.0	118.2
BAR 29.1 HG	500	76.7	75.8	77.1	76.2	74.9	75.2	73.1	67.6	69.1	64.0	65.9	69.0	68.2	68.3	65.8	121.5
(98121. N/M2)	630	79.5	77.4	77.1	77.5	77.3	74.3	75.4	72.1	71.5	70.6	67.1	68.5	67.5	66.5	66.2	122.9
TAMB 65. DEG F	800	78.2	77.2	79.2	78.3	77.0	74.4	74.3	71.0	69.4	70.2	67.9	66.1	67.2	66.7	65.7	122.9
(291. DEG K)	1000	82.4	81.3	82.5	81.5	79.2	76.7	75.4	73.2	70.3	69.6	69.2	70.4	68.6	66.6	66.9	125.3
THET 58. DEG F	1250	81.3	80.3	81.2	80.2	78.0	77.5	76.5	74.9	71.1	70.1	68.0	70.0	70.3	67.3	67.0	125.1
(288. DEG K)	1600	80.2	78.6	78.5	79.7	78.4	77.5	76.4	72.1	70.3	68.5	66.3	68.2	68.3	66.6	66.1	124.3
HACT10.35 GH/M3	2000	80.3	80.4	80.7	79.8	78.5	78.5	77.7	73.0	69.6	68.7	67.4	67.4	68.5	67.8	67.2	125.2
(.01035 KG/M3)	2500	82.2	82.2	81.1	80.4	78.9	78.5	74.3	70.9	68.9	67.2	66.0	66.1	67.1	66.4	66.9	125.0
NFA 6390. RPM	3150	88.5	87.6	87.2	83.4	82.3	80.7	80.5	78.2	73.6	70.6	67.1	69.1	68.3	65.4	66.2	129.5
( 669. RAD/SEC)	4000	91.9	91.0	90.3	87.3	85.1	84.4	82.4	80.0	77.4	71.5	71.0	71.2	71.3	69.2	68.9	132.8
NFK 6353. RPM	5000	90.5	91.3	88.7	87.6	91.5	87.6	85.6	81.0	81.7	76.7	74.4	74.4	73.6	70.4	73.0	135.3
( 665. RAD/SEC)	6300	90.5	89.8	88.8	85.7	84.6	82.6	81.8	77.6	75.8	71.7	69.5	68.5	68.7	65.6	66.2	132.0
NFD10628. RPM	8000	89.3	88.7	87.7	85.6	86.4	83.6	83.6	78.5	76.7	72.5	70.2	68.6	67.7	66.6	66.1	133.0
(1113. RAD/SEC)	10000	88.6	88.5	85.8	84.7	84.6	82.8	81.9	78.6	75.7	71.8	69.6	66.7	66.9	64.6	64.5	132.6
NO. OF BLADES 44	12500	84.5	84.4	82.4	80.8	81.3	79.6	77.8	75.0	72.4	69.5	66.4	63.8	63.7	60.8	62.4	130.3
	16000	80.4	81.4	78.8	77.0	77.3	76.8	74.5	72.1	68.7	73.6	64.7	66.6	64.8	65.6	65.4	129.4
	20000	75.2	75.4	73.4	71.5	72.2	74.5	70.7	69.0	64.6	72.7	66.3	69.3	66.4	66.7	67.2	128.9
OVERALL MEASURED		98.9	97.9	96.3	95.4	95.1	93.4	93.2	89.7	87.6	86.4	84.9	85.0	84.3	83.2	85.9	
OVERALL CALCULATED		98.8	98.4	97.3	95.3	95.7	93.5	92.3	88.6	87.0	85.2	82.1	82.7	82.1	80.7	80.7	142.3
PNOB		112.4	111.7	111.0	108.8	110.0	107.2	106.0	101.9	101.1	97.6	95.4	95.8	95.3	93.0	94.0	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	PWL	
FREQ.	(0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	
	50	71.9	71.9	71.0	71.4	70.9	70.2	73.2	68.6	68.1	69.0	66.7	67.9	66.9	67.2	66.8	118.9
	63	70.4	65.1	75.0	72.6	74.8	71.4	74.4	62.9	66.3	77.6	66.0	62.4	63.4	64.2	62.8	121.1
RADIAL 100. FT.	80	62.7	62.7	61.9	63.0	61.9	61.1	70.3	60.5	60.9	60.7	60.5	60.7	58.7	60.1	59.6	112.6
( 30. M)	100	69.0	67.0	70.4	64.5	68.0	64.2	70.6	64.7	68.1	63.2	65.2	70.2	69.0	69.2	65.7	117.4
VEHICLE ATT	125	66.6	66.3	64.5	65.5	64.1	63.7	68.6	60.9	61.3	59.8	59.1	62.3	64.4	60.7	63.3	113.2
CONFIG APP	160	65.3	63.3	65.1	63.4	63.8	51.5	68.5	60.9	60.0	60.2	58.8	62.0	61.4	61.2	60.0	112.5
LOC PTD	200	71.4	71.3	71.3	69.6	68.3	67.3	70.4	64.9	67.3	69.5	67.9	68.2	64.5	66.5	64.8	117.8
DATE 7/12/74	250	77.0	75.0	75.1	74.2	72.8	72.3	72.5	68.7	67.0	65.1	63.0	63.0	62.1	63.2	64.7	119.4
RUN 266	315	76.3	74.3	76.2	75.5	75.9	73.2	72.3	70.0	68.4	67.5	65.9	64.1	65.2	64.6	63.9	120.7
TAPE A754	400	73.8	72.0	73.3	73.0	72.1	71.3	70.5	66.9	67.1	66.2	65.0	67.2	67.9	65.4	64.7	118.9
BAR 29.1 HG	500	74.9	74.9	76.1	76.1	75.0	75.4	74.2	68.7	70.2	68.3	65.7	63.0	62.2	64.9	63.9	121.4
(98121. N/M2)	630	78.4	77.7	78.8	77.8	78.2	74.7	75.4	73.1	71.4	69.5	69.1	67.3	66.5	66.5	66.2	123.3
TAMB 65. DEG F	800	77.1	78.2	78.4	78.5	77.3	76.7	75.6	71.0	70.4	68.2	69.2	68.4	67.2	66.3	65.1	123.4
(291. DEG K)	1000	83.3	82.5	83.6	82.5	80.2	78.6	78.5	74.2	73.3	69.5	71.2	69.3	69.2	66.6	67.3	126.7
THET 58. DEG F	1250	82.1	82.4	82.2	80.4	78.3	77.6	76.4	73.7	70.1	69.4	67.9	69.3	68.4	67.5	66.7	125.2
(288. DEG K)	1600	80.9	80.4	80.6	80.4	78.4	78.7	77.2	72.2	69.4	66.6	66.0	68.2	67.2	66.4	64.9	125.0
HACT10.35 GM/M3	2000	80.3	80.5	80.5	80.5	77.2	77.5	76.6	71.2	68.7	67.5	66.3	67.5	67.3	66.5	66.2	124.6
(101035 KG/M3)	2500	82.1	83.0	82.2	80.4	78.2	78.2	74.2	70.9	69.1	66.2	65.1	66.0	65.9	65.4	65.9	125.1
NFA 6255. RPM	3150	89.1	87.6	87.5	85.4	83.4	80.3	80.3	77.3	72.6	70.7	67.3	69.5	67.6	64.7	66.0	129.9
( 655. RAD/SEC)	4000	92.2	92.1	90.4	88.6	85.2	84.3	82.1	78.1	75.3	71.4	69.9	70.2	71.4	68.6	69.0	133.0
NFK 6219. RPM	5000	91.2	92.4	89.4	87.6	90.5	87.6	84.6	81.2	81.4	76.6	74.3	73.4	73.5	69.7	71.3	135.1
( 651. RAD/SEC)	6300	91.2	90.8	89.6	85.9	85.4	82.8	81.8	78.3	74.7	71.7	70.2	68.7	68.8	64.9	65.5	132.5
NFD10628. RPM	8000	89.5	89.4	87.7	86.9	86.3	85.5	85.4	80.5	78.0	72.8	71.2	69.4	68.7	66.8	66.2	134.0
(1113. RAD/SEC)	10000	89.6	88.8	86.5	85.6	86.6	84.5	82.5	79.5	76.5	75.8	70.5	67.8	67.5	64.9	65.2	133.8
NO. OF BLADES 44	12500	85.2	86.4	83.7	81.5	82.4	80.7	80.4	77.1	73.4	71.6	67.4	65.5	64.6	61.5	63.1	131.7
	16000	81.5	82.5	79.9	78.9	78.6	78.8	76.7	73.3	70.7	72.8	65.2	67.5	64.5	63.6	65.2	130.7
	20000	76.4	77.6	74.6	73.7	73.2	75.7	72.2	70.1	66.7	75.5	64.2	69.6	64.4	64.8	67.0	130.3
OVERALL MEASURED		98.9	98.9	97.4	96.1	95.7	94.1	93.2	88.6	88.1	87.3	85.0	84.3	84.1	82.2	84.8	
OVERALL CALCULATED		99.3	99.3	97.8	96.1	95.8	94.1	92.6	88.9	87.0	85.4	82.3	82.3	81.6	80.2	80.2	142.9
PND8		112.7	112.5	111.3	109.7	109.6	107.5	105.7	101.9	100.8	97.4	95.4	95.1	94.9	92.5	93.1	

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 8 DAY 1 HR. 15.1  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	71.7	71.6	70.7	71.3	71.1	70.0	72.6	68.9	68.3	68.4	66.7	67.8	68.0	68.8	67.0	118.9
	63	68.9	64.6	74.7	71.2	75.2	71.0	72.8	63.0	65.5	76.8	66.4	62.9	63.1	65.9	62.4	120.5
RADIAL 100. FT.	80	63.3	62.2	62.5	62.0	61.6	61.7	69.4	60.8	60.4	60.6	61.6	60.6	60.9	60.3	58.6	112.3
( 30. M)	100	69.7	66.5	69.8	65.1	66.1	63.2	69.8	66.1	67.4	63.5	64.8	69.8	69.1	69.9	64.3	117.1
VEHICLE ATT	125	66.0	65.9	63.8	64.7	64.2	62.3	68.0	61.4	60.0	59.8	59.5	61.9	65.1	60.2	63.5	112.9
CONFIG APP	160	62.9	61.6	63.8	62.4	63.2	60.0	67.2	61.9	59.8	59.5	58.8	60.8	62.1	61.6	59.9	111.8
LOC PTO	200	70.4	69.4	69.4	69.2	68.0	65.6	67.7	62.8	65.1	65.6	65.8	65.2	65.8	65.5	62.0	115.9
DATE 7/12/74	250	76.0	74.5	74.7	74.3	73.2	70.9	70.9	68.9	66.5	63.9	61.9	62.7	63.1	62.9	63.1	118.8
RUN 267	315	75.9	74.8	76.0	76.4	75.9	73.0	72.0	70.1	67.8	67.5	64.9	63.7	65.3	63.6	63.0	120.7
TAPE A754	400	73.8	72.5	73.9	73.0	72.9	70.9	69.7	68.0	65.5	64.7	64.3	64.9	65.1	62.9	62.1	118.4
BAR 29.1 HG	500	74.4	74.3	75.6	74.9	74.0	71.9	70.6	69.9	67.4	62.6	64.2	62.8	64.0	66.5	63.2	119.7
(98131. N/M2)	630	79.0	78.2	78.1	77.5	77.3	74.0	74.2	72.1	69.6	67.7	68.2	66.0	67.1	66.1	65.2	122.5
TAMB 63. DEG F	800	77.7	76.9	76.9	77.4	74.9	74.1	73.7	70.1	68.7	66.6	66.9	66.7	67.1	65.6	65.1	121.7
(290. DEG K)	1000	81.3	82.1	82.2	80.6	77.6	76.3	74.0	72.1	68.7	67.8	68.2	68.2	68.0	66.0	64.4	124.5
TWET 58. DEG F	1250	82.7	81.7	82.0	79.3	77.3	76.3	74.9	71.9	69.5	67.8	67.1	69.1	68.9	67.8	65.0	124.3
(288. DEG K)	1600	81.0	79.8	80.9	79.8	77.5	76.0	75.1	71.1	67.9	65.7	65.5	66.9	67.0	65.0	64.1	123.9
HACT10.93 GH/M3	2000	81.0	80.2	81.3	79.8	78.3	76.3	74.0	71.1	67.7	67.0	66.2	66.9	67.1	66.9	65.5	124.2
( 01093 KG/M3)	2500	81.9	82.8	81.8	80.3	78.9	77.0	73.6	71.0	67.4	65.5	65.1	65.8	67.1	66.6	65.1	124.8
NFA 6273. RPM	3150	88.9	87.0	87.2	85.9	84.5	81.2	79.9	76.2	71.6	68.9	67.2	68.9	68.3	65.7	65.2	130.0
( 657. RAD/SEC)	4000	91.9	92.6	89.7	89.2	85.2	84.0	82.0	78.3	75.3	69.8	70.2	70.7	72.2	68.6	67.1	133.1
NFK 6249. RPM	5000	91.2	91.8	89.3	87.8	90.9	86.5	84.3	80.3	79.8	75.0	74.4	73.0	76.4	70.8	70.2	134.8
( 654. RAD/SEC)	6300	90.0	89.8	89.1	86.0	85.5	83.4	82.3	78.5	73.8	71.0	69.5	68.1	69.3	66.2	65.6	132.4
NFD10628. RPM	8000	89.3	89.9	88.1	85.7	87.6	85.5	84.5	79.7	76.9	71.9	71.2	69.0	69.1	67.0	66.1	133.9
(1113. RAD/SEC)	10000	89.2	89.1	86.2	85.9	86.6	83.5	83.3	79.7	75.7	73.0	70.2	68.0	69.2	65.2	64.2	133.7
NO. OF BLADES 44	12500	84.6	85.9	82.9	81.5	83.1	80.0	80.0	76.2	72.7	69.7	67.4	63.9	65.0	62.0	61.0	131.4
	16000	81.7	81.8	79.1	78.3	78.3	77.0	76.7	73.1	69.4	72.8	67.1	65.7	65.2	64.8	63.0	130.1
	20000	76.5	76.5	74.7	72.9	72.8	71.9	71.7	69.9	65.5	73.5	65.7	67.6	65.7	65.4	65.8	129.0
OVERALL MEASURED		90.7	99.0	97.6	95.7	96.4	93.2	93.2	88.9	86.8	86.8	84.1	83.8	85.1	83.9	83.9	
OVERALL CALCULATED		98.9	99.1	97.4	96.0	96.1	93.3	92.2	88.4	85.8	84.1	81.9	81.5	82.5	80.5	79.1	142.6
PND8		112.4	112.6	110.9	109.9	109.8	106.5	105.0	101.2	99.5	95.9	95.2	94.6	96.5	93.0	92.0	



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
58	71.7	71.5	70.7	71.1	70.8	70.0	72.7	69.7	68.5	69.4	68.0	68.6	68.8	68.5	66.8	119.2
63	69.7	65.8	75.0	71.3	76.2	73.0	73.9	63.0	65.6	76.8	66.9	64.1	64.3	65.7	63.0	121.1
RADIAL 100. FT. ( 30. M)	80	64.6	64.3	64.5	64.0	62.5	61.8	70.4	61.9	61.2	61.4	61.5	61.8	62.5	61.3	113.3
VEHICLE ATT CONFIG APP	100	66.7	65.4	66.0	65.0	66.8	65.3	70.2	65.1	65.7	62.9	65.3	66.8	67.9	69.8	116.4
LOC PTO	200	70.4	70.0	69.5	68.0	68.6	65.6	67.6	64.8	61.3	62.3	59.9	61.5	63.2	65.3	113.9
DATE 7/12/74	250	76.9	75.4	75.0	74.3	73.3	71.9	71.9	69.2	66.7	64.7	63.3	63.7	64.4	63.9	119.4
RUN 268	315	76.6	75.8	75.9	76.3	75.9	73.8	72.9	71.0	69.5	67.7	66.1	65.0	65.3	64.0	121.2
TAPE A754	400	73.6	72.4	73.9	72.9	72.9	70.9	69.7	67.9	65.4	64.7	64.8	65.6	66.1	63.9	118.5
BAR 29.1 HG	500	75.3	75.3	74.7	73.9	71.8	70.9	71.8	70.6	70.5	65.6	67.0	68.5	66.8	67.5	120.1
(98131. N/M2)	630	79.2	78.0	78.3	78.3	77.2	74.3	74.3	72.4	70.9	68.8	69.1	67.1	68.2	67.9	123.0
TAMB 63. DEG F	800	78.7	80.1	80.1	78.2	77.2	75.1	74.7	71.1	68.7	68.7	67.1	66.8	67.9	65.9	123.2
(290. DEG K)	1000	81.2	82.2	83.0	81.8	78.5	77.3	75.3	72.4	69.9	69.0	67.1	69.1	68.2	67.1	125.3
TWET 58. DEG F	1250	81.0	81.0	81.8	80.1	79.0	77.2	77.0	74.1	70.6	69.7	68.1	69.6	71.0	68.0	125.3
(288. DEG K)	1600	79.2	77.9	78.9	79.5	77.4	75.3	74.0	71.4	68.6	66.7	66.0	66.8	67.9	66.9	123.3
HACT10.93 GM/M3	2000	80.0	80.3	81.1	80.4	77.3	76.1	74.9	71.6	68.9	67.7	67.1	68.2	68.4	68.0	124.4
(.01093 KG/M3)	2500	81.9	82.7	81.2	80.1	78.9	77.3	73.9	71.9	68.5	66.5	66.0	66.7	68.2	66.8	124.8
NFA 6559. RPM	3150	88.2	87.1	87.2	83.6	82.3	80.3	81.1	78.7	71.6	69.0	67.3	68.9	69.2	66.2	129.5
( 687. RAD/SEC)	4000	91.7	90.7	88.8	87.2	83.9	84.0	82.9	79.3	75.3	70.6	70.1	70.9	72.0	68.9	132.2
NFK 6534. RPM	5000	90.2	90.2	88.1	86.6	90.2	85.5	84.4	80.5	81.1	75.9	75.4	73.2	75.3	72.0	134.2
( 684. RAD/SEC)	6300	89.2	89.2	88.4	84.6	84.4	82.6	81.6	77.7	75.0	71.1	69.5	68.1	69.7	66.0	131.6
NFD10628. RPM	8000	88.3	88.9	86.6	84.6	86.3	83.3	83.2	78.6	76.0	71.1	70.4	68.3	68.3	67.0	132.6
(1113. RAD/SEC)	10000	88.2	88.0	85.3	83.6	84.6	82.3	81.2	78.6	74.8	71.9	69.2	67.2	67.5	64.9	132.1
NO. OF BLADES 44	12500	84.1	83.9	81.8	80.2	80.5	79.3	78.0	74.1	70.5	68.8	65.2	64.0	64.0	60.9	129.7
	15000	80.0	79.6	78.1	75.3	76.1	76.1	73.9	71.9	67.8	72.7	65.9	65.8	64.9	64.1	128.5
	20000	74.6	74.4	72.8	70.8	71.7	70.9	69.8	68.6	64.4	76.4	64.0	67.9	64.7	65.8	128.9
OVERALL MEASURED		98.7	97.9	96.8	94.5	95.3	92.3	93.1	88.9	87.6	86.8	84.2	85.0	85.4	84.1	141.8
OVERALL CALCULATED		98.3	98.0	96.7	94.8	95.1	92.6	91.9	88.5	86.1	84.7	82.0	81.9	82.5	81.0	
PND8		112.0	111.4	110.2	108.5	109.1	105.9	105.2	101.6	100.3	96.6	95.7	94.9	96.2	92.4	

		MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)																
		ANGLES FROM INLET IN DEGREES (AND RADIANS)																
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (D. )		(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)			
	50	72.7	71.7	71.5	71.9	71.8	70.0	73.6	70.0	68.6	68.4	67.7	68.6	68.9	68.7	67.8	119.5	
	63	68.9	65.9	73.9	71.2	75.0	71.1	73.8	64.3	63.8	76.8	65.9	63.9	63.4	66.7	63.3	120.6	
RADIAL 100. FT.	80	64.3	63.5	63.4	63.8	62.5	61.7	71.3	61.6	61.5	61.3	61.5	61.3	61.5	61.6	59.8	113.6	
( 30. M )	100	66.6	65.6	65.0	66.2	66.1	66.0	70.9	68.0	65.5	62.5	64.1	67.5	68.9	70.7	66.2	117.1	
VEHICLE ATT	125	68.1	66.0	64.2	65.3	65.1	64.1	69.0	63.5	60.6	60.1	59.2	62.0	65.5	62.9	63.5	113.8	
CONFIG APP	160	63.6	62.6	64.7	62.4	62.8	60.8	67.9	61.9	59.4	59.5	59.8	60.9	62.2	61.8	60.2	112.1	
LOC PTD	200	70.7	70.5	70.5	68.0	68.6	65.7	67.8	63.6	63.1	64.4	64.6	62.6	61.9	63.2	60.6	115.2	
DATE 7/12/74	250	76.7	75.9	75.0	74.4	73.3	71.9	72.0	69.2	67.6	64.8	63.9	63.8	64.2	64.0	64.1	119.5	
RUN 269	315	76.9	75.9	77.0	77.7	77.2	73.9	73.7	71.2	70.5	68.6	66.1	65.8	65.3	64.8	64.1	122.0	
TAPE A754	400	73.6	72.7	74.6	73.3	72.9	71.1	69.9	68.3	66.5	65.6	65.0	65.7	66.8	63.6	63.3	118.9	
BAR 29.1 HG	500	77.7	76.9	74.7	74.2	71.8	71.0	69.6	69.8	69.5	64.5	67.0	65.8	67.9	69.7	66.9	119.9	
(98131. N/M2)	630	79.3	78.1	78.1	78.4	77.4	74.0	75.2	73.2	70.9	69.0	68.3	68.0	68.2	68.3	66.2	123.2	
TAMB 63. DEG F	800	77.7	76.8	78.1	78.2	75.9	75.9	73.7	71.2	68.7	68.7	68.1	68.0	68.1	66.7	66.0	122.6	
(290. DEG K)	1000	81.0	82.9	84.2	82.6	77.6	76.1	75.1	71.2	68.9	68.8	68.1	69.0	68.5	67.1	65.4	125.5	
TWET 58. DEG F	1250	80.8	80.9	81.0	79.5	78.0	77.0	76.0	72.1	70.5	68.6	68.1	69.7	70.1	67.9	65.9	124.6	
(288. DEG K)	1600	79.7	77.8	78.2	78.7	77.4	76.0	75.0	72.1	68.8	67.0	66.3	68.9	68.0	67.0	64.9	123.4	
HACT10.93 GM/M3	2000	79.3	80.0	81.3	79.5	79.2	76.4	74.9	72.2	69.7	67.1	67.1	68.3	69.2	67.9	66.5	124.6	
(.01093 KG/M3)	2500	81.9	81.8	81.7	80.3	79.0	78.2	73.9	70.9	67.5	65.3	65.8	66.7	69.3	66.7	66.1	125.0	
NFA 6480. RPM	3150	90.0	88.1	88.4	84.5	83.6	81.1	81.2	77.2	72.7	69.7	67.3	69.9	69.6	66.0	66.3	130.2	
( 679. RAD/SEC)	4000	91.6	90.9	89.7	87.1	84.9	84.2	83.0	79.3	76.7	69.7	70.1	71.0	72.4	69.8	67.8	132.5	
NFK 6463. RPM	5000	91.0	89.9	88.5	86.5	81.5	86.4	85.3	81.5	81.1	76.3	74.5	73.0	74.2	71.1	71.2	134.9	
( 677. RAD/SEC)	6300	90.3	90.3	88.4	85.8	85.4	83.6	82.4	78.7	75.8	71.2	70.5	69.3	79.3	66.4	65.4	132.4	
NFD10628. RPM	8000	89.1	89.8	88.0	85.7	87.4	85.2	84.2	79.3	77.0	72.8	71.1	69.2	69.4	67.0	66.2	133.7	
(1113. RAD/SEC)	10000	88.0	88.8	86.2	84.7	86.2	83.3	82.4	79.1	75.6	72.8	70.0	68.0	69.5	66.1	64.5	133.3	
NO. OF BLADES 44	12500	84.7	84.8	83.0	80.5	82.2	80.4	78.9	75.9	71.8	69.6	66.3	64.7	65.0	62.0	61.3	130.8	
	16000	80.7	81.7	78.8	77.5	78.4	77.1	75.2	72.9	69.4	71.7	66.2	65.0	64.1	67.1	63.9	129.7	
	20000	75.7	75.4	73.7	71.9	72.7	71.7	72.0	68.9	65.4	73.6	66.0	66.7	63.7	66.6	66.9	129.7	
OVERALL MEASURED		98.9	97.7	96.8	94.6	96.2	93.3	93.0	90.1	86.8	86.9	85.0	84.9	84.9	83.7	84.1		
OVERALL CALCULATED		98.8	98.5	97.4	95.2	96.2	93.4	92.5	88.8	86.6	84.5	82.1	82.2	82.7	81.4	80.0	142.5	
PND8		112.2	111.6	110.8	108.7	110.1	106.6	105.8	102.1	100.5	96.8	95.5	95.4	96.0	93.7	93.0		

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
	50	72.5	72.5	71.7	71.9	72.8	71.0	72.6	69.7	69.3	69.4	67.7	68.6	69.8	68.7	67.9	119.7
	63	69.7	65.6	73.8	70.1	77.0	72.3	72.0	63.0	65.5	76.7	66.3	64.7	64.1	66.7	61.9	120.8
RADIAL 100. FT.	80	64.3	64.7	64.6	63.8	62.9	61.8	70.6	62.8	62.4	62.2	61.9	61.5	62.5	61.3	59.6	113.6
( 30. M)	100	66.8	65.9	65.8	64.1	66.9	65.8	70.0	66.0	65.8	62.4	65.0	66.7	67.9	69.6	65.3	116.4
VEHICLE ATT	125	67.0	66.9	64.9	65.4	65.1	63.4	68.1	62.4	61.0	60.1	60.4	62.0	65.2	61.9	63.3	113.4
CONFIG APP	160	63.7	62.7	64.1	62.1	63.0	61.0	67.7	62.1	59.6	59.5	59.1	61.8	62.2	61.6	60.1	112.1
LOC PTO	200	70.3	70.6	70.5	68.7	67.8	66.0	67.5	62.6	62.3	61.4	62.0	61.5	61.6	62.8	59.7	114.7
DATE 7/12/74	250	76.9	76.0	75.8	74.4	73.2	72.3	71.8	69.9	67.8	64.8	64.0	63.9	64.1	64.7	64.0	119.7
RUN 270	315	76.9	75.7	76.8	77.4	77.3	75.0	73.9	72.1	71.4	68.8	66.1	66.1	64.9	64.7	66.1	122.2
TAPE A754	400	73.7	72.8	73.7	73.1	73.1	71.1	70.9	68.1	66.7	64.7	64.9	65.6	66.2	63.6	63.0	118.8
BAR 29.1 HG	500	78.6	76.6	75.8	74.1	72.6	70.8	72.6	70.9	68.6	65.3	68.8	66.7	67.9	68.3	64.8	120.4
(98431. N/M2)	630	80.1	78.2	79.1	78.8	78.3	74.3	74.9	73.0	71.0	69.8	68.3	68.2	68.3	67.9	66.2	123.5
TAMB 63. DEG F	800	79.1	77.9	78.9	79.1	76.1	75.9	75.0	72.0	69.5	68.7	68.9	68.9	69.1	65.6	68.2	123.3
(290. DEG K)	1000	83.2	83.0	84.0	82.3	79.1	78.2	77.0	73.2	70.9	69.6	69.3	70.2	70.0	67.9	66.4	126.2
THET 58. DEG F	1250	82.0	80.7	80.8	79.4	79.3	78.3	76.7	72.8	70.7	68.5	68.0	69.9	69.9	68.6	67.1	125.1
(288. DEG K)	1600	80.2	77.9	79.0	79.6	78.2	76.3	75.1	71.9	68.8	67.0	67.0	68.1	69.2	67.0	65.3	123.8
HACT10.93 GH/M3	2000	80.0	80.1	82.0	80.4	79.3	77.3	75.2	73.5	69.9	68.9	68.4	68.0	69.4	68.2	67.4	125.2
(.01093 KG/M3)	2500	82.8	81.6	81.7	79.5	79.3	77.9	74.7	71.0	68.4	66.5	65.7	66.6	68.8	66.6	66.2	124.9
NFA 6541. RPM	3150	89.3	87.9	87.3	84.5	82.4	80.5	80.4	78.7	72.0	69.8	67.1	70.0	69.4	65.9	65.2	129.7
( 685. RAD/SEC)	4000	92.0	90.6	89.7	87.2	85.2	83.9	81.9	79.4	76.7	70.7	71.1	70.9	72.1	69.7	68.0	132.4
NFK 6516. RPM	5000	90.3	90.2	87.3	87.3	91.5	86.3	85.4	81.3	81.9	77.0	76.5	75.2	75.3	71.9	71.2	135.0
( 682. RAD/SEC)	6300	90.1	90.0	88.2	85.4	85.4	82.6	81.3	78.5	74.1	71.1	70.3	69.3	70.5	66.2	65.6	131.9
NFD10620. RPM	8000	88.3	89.1	87.3	85.6	86.3	83.6	83.3	78.4	76.1	71.0	70.4	68.2	68.3	67.2	64.5	132.9
(1113. RAD/SEC)	10000	88.1	88.1	85.3	84.6	85.5	82.3	82.2	78.4	74.8	71.7	69.5	67.0	68.2	65.2	63.2	132.6
NO. OF BLADES 44	12500	84.1	84.7	81.8	80.2	81.1	79.3	77.9	75.4	70.8	69.6	66.2	63.2	64.3	61.7	61.1	150.0
	16000	81.0	80.7	78.1	77.1	78.0	76.0	74.6	72.0	68.5	73.7	65.1	64.8	64.9	63.6	62.2	129.2
	20000	75.5	75.8	73.7	71.8	72.7	70.7	70.7	68.7	65.3	74.3	66.7	66.7	64.9	66.5	63.7	129.6
OVERALL MEASURED		98.1	97.9	97.1	95.1	96.0	93.1	92.9	89.1	87.9	86.7	85.3	85.0	85.3	84.0	85.3	
OVERALL CALCULATED		98.7	98.2	96.9	95.3	96.0	93.0	92.1	88.8	86.6	84.8	82.7	82.4	82.9	81.2	79.9	142.2
PND8		112.5	111.7	110.7	108.8	110.1	106.5	105.7	102.1	100.9	97.2	96.6	96.0	96.4	93.9	92.9	

MODEL SOUND PRESSURE LEVELS (39. DEG. F, 70 PERCENT REL. HUM. DAT.)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)		
50	73.6	72.7	71.6	72.9	72.0	70.9	73.6	70.0	70.3	69.6	68.8	68.4	69.7	69.7	67.8	120.1
63	69.7	66.6	74.9	71.1	76.0	71.1	74.0	63.9	66.3	76.7	67.0	64.9	64.1	67.8	64.1	121.0
RADIAL 100. FT. (30. M)	80	64.3	66.6	65.3	65.7	63.7	61.8	71.6	63.8	64.1	65.2	62.8	63.3	65.5	63.3	114.9
VEHICLE ATT CONFIG APP	100	66.0	65.6	64.7	64.4	66.9	65.1	70.9	64.9	65.6	62.9	61.1	65.8	67.1	68.7	116.0
LOC PTO	125	67.9	67.3	65.2	66.4	66.3	64.1	70.2	64.4	64.6	63.1	63.1	62.9	67.3	63.8	115.3
DATE 7/12/74	150	62.9	60.8	64.9	62.3	62.1	61.3	68.8	61.3	59.5	58.8	59.1	61.6	62.4	61.6	112.3
RUN 271	200	70.4	69.3	68.9	66.9	68.0	65.8	67.7	63.6	61.5	62.3	62.0	61.7	61.9	64.3	114.5
TAPE A754	250	76.8	75.0	74.8	74.2	73.2	72.2	71.9	70.2	67.6	64.6	65.3	64.0	64.0	64.7	119.6
BAR 29.1 HG (98131. N/M2)	315	77.0	76.7	77.0	76.4	75.9	75.0	74.0	71.9	69.5	68.6	68.6	65.9	65.9	64.7	121.9
TAMB 63. DEG F (290. DEG K)	400	73.8	73.4	74.8	74.3	73.1	71.9	71.6	68.9	67.6	65.6	65.8	65.8	66.8	64.6	119.5
THET 58. DEG F (288. DEG K)	500	76.7	75.4	74.5	73.0	75.7	72.0	73.6	72.0	66.3	65.6	68.8	66.9	66.6	64.1	120.7
HACT10.93 GH/M3 (.01093 KG/M3)	630	82.0	80.1	79.1	79.3	79.2	76.3	77.0	75.2	70.9	69.7	72.3	70.3	70.3	67.9	124.8
NFA 6641. RPM (695. RAD/SEC)	800	82.1	80.9	80.8	80.2	75.9	77.1	75.0	72.0	70.5	68.7	69.8	69.1	70.1	66.8	124.2
NFK 6616. RPM (693. RAD/SEC)	1000	81.0	81.1	83.2	81.6	79.3	79.1	79.5	73.4	71.7	69.7	70.3	70.1	70.1	66.0	126.4
NFD10628. RPM (1113. RAD/SEC)	1250	81.9	80.0	81.9	81.3	81.0	79.0	78.9	75.8	72.5	69.7	69.9	70.9	71.1	69.8	126.5
NO. OF BLADES 44	1600	80.9	78.1	79.0	78.5	77.2	75.3	75.1	72.1	69.6	67.7	67.9	69.2	69.0	66.8	123.5
OVERALL MEASURED	2000	81.4	81.0	80.1	80.5	78.2	76.1	77.0	74.0	69.9	69.0	69.2	69.0	70.1	68.1	125.0
OVERALL CALCULATED	2500	82.7	82.8	81.7	80.2	78.0	78.0	74.6	72.9	69.5	67.4	67.0	67.7	69.8	67.8	125.2
PNOB	3150	86.1	85.9	86.2	83.3	83.2	80.5	80.1	78.3	72.6	70.0	68.1	69.0	69.1	65.9	129.2
	4000	90.8	89.9	88.9	87.4	84.2	83.2	82.1	80.2	75.6	70.8	70.1	70.9	72.9	69.8	132.0
	5000	89.9	90.1	87.3	86.3	89.5	86.4	85.1	81.3	81.1	76.2	75.2	74.2	75.3	73.8	134.1
	6300	89.2	88.3	87.4	84.5	84.4	81.7	80.6	78.4	75.1	71.3	70.5	68.5	69.6	66.3	131.1
	8000	88.1	87.9	85.3	84.6	84.6	82.5	82.2	77.3	75.0	71.0	69.2	68.5	67.5	66.3	131.5
	10000	88.0	87.0	85.3	82.5	83.5	81.2	80.3	77.5	73.6	70.9	69.5	67.2	68.2	64.9	131.3
	12500	82.9	82.9	81.4	78.2	79.1	78.1	76.1	73.2	70.5	68.6	66.1	64.1	65.1	61.5	128.5
	15000	80.1	79.9	77.0	75.0	75.9	75.1	73.7	71.1	67.6	72.7	65.2	64.7	65.0	65.8	129.0
	20000	74.7	74.7	72.1	70.8	70.7	70.7	69.8	67.9	63.2	73.5	64.0	66.7	65.0	67.6	128.4
	98.1	97.6	96.1	95.1	95.3	92.2	93.1	90.1	87.7	86.9	86.2	86.1	86.1	86.2	85.9	
	98.0	97.4	96.3	94.7	94.8	92.6	92.0	88.9	86.3	84.8	82.9	82.5	83.2	81.7	80.4	141.5
	111.7	110.8	110.0	108.6	108.8	106.4	105.7	102.3	100.5	97.0	96.3	95.7	96.6	94.9	93.6	

REPRODUCIBILITY OF TEST  
 ORIGINAL PAGE IS POCB

PROC. DATE - MONTH 8 DAY 1 HR. 15.2  
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	72.8	71.7	70.8	71.9	71.7	70.6	72.6	70.0	69.3	69.6	68.0	67.8	68.8	68.8	67.1	119.5
63	69.9	65.6	74.9	71.1	76.1	71.1	73.8	64.4	65.8	70.6	67.2	64.7	64.4	67.8	65.3	121.0
RADIAL 100. FT. ( 30. M)	83	63.3	64.5	64.3	63.9	63.7	61.5	70.3	61.0	62.2	62.5	62.6	60.4	61.6	60.7	61.6
VEHICLE ATT	100	68.6	65.5	64.9	66.0	67.0	63.1	69.0	63.1	65.4	62.5	63.9	65.6	66.3	67.9	63.1
CONFIG APP	125	71.9	69.8	65.9	68.5	65.4	62.1	68.3	65.3	66.8	69.8	67.2	66.1	66.3	64.0	65.4
LOC PTD	160	62.7	60.7	63.7	62.1	63.2	60.9	67.0	61.9	59.5	59.8	60.3	61.8	61.9	61.7	60.0
DATE 7/12/74	200	69.5	69.2	69.6	67.7	68.6	65.8	67.6	63.6	61.5	61.3	58.8	60.2	61.7	63.7	61.0
RUN 272	250	77.0	75.8	76.0	75.1	74.0	73.2	72.9	70.2	68.5	64.8	64.1	63.7	64.4	65.2	66.1
TAPE A754	315	76.6	76.8	76.7	76.2	76.2	73.1	72.8	72.0	69.7	69.6	66.1	66.8	67.0	65.7	64.0
BAR 29.1 HG	400	75.8	77.9	79.1	79.2	78.0	77.1	72.7	72.1	73.2	69.7	73.0	71.8	71.1	66.8	66.2
(98152. N/H2)	500	71.9	72.4	72.7	72.7	71.9	71.7	69.8	69.8	68.5	64.7	68.1	68.7	67.6	64.7	66.0
TAMB 65. DEG F	630	75.0	74.0	76.1	77.8	76.2	74.0	74.9	73.2	72.7	69.8	71.3	73.0	72.5	67.1	70.2
(291. DEG K)	800	81.0	76.7	77.9	78.1	77.1	76.1	75.8	74.1	72.6	70.6	71.2	68.6	69.8	68.9	66.1
TWET 58. DEG F	1000	78.2	77.9	78.1	77.4	76.1	76.2	76.3	73.4	70.9	69.0	69.3	70.1	70.2	67.9	65.4
(288. DEG K)	1250	80.0	78.7	79.7	79.1	77.2	75.8	76.8	75.9	71.7	70.8	69.9	71.0	72.2	69.9	69.2
HACT 10.35 GM/M3	1600	79.9	77.9	78.3	78.3	77.4	75.6	76.1	74.1	70.8	68.7	69.3	69.8	70.1	67.0	66.4
(.01035 KG/M3)	2000	79.3	77.9	78.3	78.4	76.4	76.1	76.2	73.1	70.7	68.0	68.4	70.2	69.4	68.9	68.3
NFA 6837. RPM	2500	80.1	79.8	79.7	78.3	77.9	77.0	74.9	73.0	70.6	68.5	68.1	68.8	69.1	68.8	67.1
( 716. RAD/SEC)	3150	84.1	81.1	81.8	80.7	79.3	77.4	78.2	76.4	71.9	68.8	66.5	69.2	68.3	66.2	65.5
NFK 6798. RPM	4000	86.6	85.9	83.8	82.3	79.0	79.0	79.2	77.1	72.7	67.6	68.3	69.9	71.2	68.9	68.1
( 712. RAD/SEC)	5000	85.2	85.2	82.1	80.6	84.3	80.4	80.6	77.3	77.8	73.1	74.4	73.2	73.3	73.1	70.5
NFD 10628. RPM	6300	84.4	84.1	83.3	79.8	79.5	77.5	77.3	74.3	71.0	68.1	68.6	67.3	68.5	65.1	65.5
(1113. RAD/SEC)	8000	83.1	82.3	80.2	77.8	79.5	76.2	76.4	72.6	71.0	66.0	66.4	66.4	64.7	64.4	63.4
NO. OF BLADES 44	12500	82.2	81.4	78.5	76.7	76.6	75.3	74.1	72.4	68.4	67.0	66.4	65.1	66.4	63.1	61.7
16000	20000	78.2	78.0	75.2	72.2	73.4	72.4	71.1	69.2	69.9	65.2	63.5	62.3	62.3	60.8	60.2
OVERALL MEASURED	18000	74.2	74.1	71.2	68.6	70.3	69.3	69.3	67.4	63.8	71.8	63.6	65.3	65.6	64.0	62.3
OVERALL CALCULATED	20000	69.9	70.2	68.2	65.5	67.5	68.3	68.1	66.6	62.8	79.1	65.6	68.1	66.5	66.1	64.3
PND8	94.0	93.6	93.0	91.4	91.3	89.9	90.1	88.3	86.8	86.7	86.2	85.9	86.2	85.0	86.5	158.3
	94.2	93.3	92.4	91.2	91.0	89.2	89.2	86.8	84.8	83.9	82.7	82.8	82.9	81.5	80.4	
	108.1	107.2	106.1	104.9	105.0	102.4	102.6	100.1	98.6	98.2	95.7	95.5	95.6	94.5	92.9	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 1 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.61)		
	50	73.0	72.6	70.8	71.9	71.8	70.8	72.9	70.1	69.5	69.8	67.7	67.8	68.8	68.9	68.8	119.6
	63	68.9	65.7	74.8	70.3	76.3	72.1	73.8	64.3	65.5	77.0	66.9	64.7	65.1	67.0	64.4	121.1
RADIAL 100. FT.	80	63.3	65.5	65.6	64.7	62.9	61.7	70.3	64.0	64.1	63.2	62.6	62.3	66.0	63.6	61.7	114.4
( 30. M)	100	65.8	64.8	63.9	64.0	67.0	64.9	69.7	63.9	65.7	63.8	62.1	64.8	65.9	67.7	63.2	115.3
VEHICLE ATT	125	67.2	64.8	62.0	64.6	66.1	65.5	69.2	60.1	65.9	66.0	62.5	61.3	65.2	63.3	63.2	114.6
CONFIG APP	160	62.6	61.5	64.1	62.0	61.9	61.2	66.9	60.8	59.7	59.8	59.9	61.6	61.8	62.7	60.9	111.9
LOC PTO	200	68.6	68.5	67.5	65.7	67.7	64.6	67.5	63.0	61.5	62.3	59.9	61.4	61.6	63.5	62.0	113.9
DATE 7/12/74	250	75.9	74.7	74.8	74.3	73.9	72.2	71.9	69.2	67.8	63.9	64.2	64.2	64.4	65.1	65.1	119.6
RUN 273	315	75.9	75.0	76.0	76.3	76.0	73.2	73.0	71.0	69.7	68.8	65.9	65.1	67.1	64.1	65.1	121.2
TAPE A754	400	75.8	77.7	79.7	79.3	77.0	75.8	74.8	71.1	73.6	67.4	73.1	71.7	68.8	66.8	66.9	123.8
BAR 29.1 HG	500	71.5	72.6	74.6	74.8	72.7	70.9	70.6	68.9	70.3	63.6	69.0	69.7	67.0	64.8	64.0	120.0
(98.152. N/M2)	630	75.1	73.9	75.2	76.6	76.1	73.0	73.2	72.1	70.6	68.8	69.1	72.2	69.4	67.2	66.3	122.1
TAMB 65. DEG F	800	77.8	75.8	77.0	77.1	75.8	75.8	76.0	74.9	73.7	72.6	70.0	70.7	71.8	67.8	66.1	123.8
(291. DEG K)	1000	78.0	76.9	78.2	76.6	76.4	77.2	77.2	73.3	70.8	70.0	69.1	70.2	69.4	67.2	66.3	123.8
THET 58. DEG F	1250	78.7	79.0	79.1	78.1	77.2	78.0	78.0	77.2	72.4	70.8	69.9	71.7	72.2	70.1	68.3	125.3
(288. DEG K)	1600	79.0	77.8	78.0	77.6	76.2	77.1	78.0	75.3	71.8	69.9	70.0	70.1	70.1	69.1	66.4	124.5
HACT 10.35 GH/M3	2000	78.0	77.2	77.2	77.7	76.4	76.1	78.4	76.1	72.9	70.0	69.5	70.0	70.2	69.3	67.5	124.7
(.01035 KG/M3)	2500	80.0	78.7	78.8	78.5	77.0	78.2	78.1	76.0	72.4	69.7	68.0	68.8	69.8	68.0	67.9	125.2
NFA 6673. RPM	3150	84.1	80.9	80.5	78.4	78.9	78.3	78.2	76.3	71.8	69.8	67.0	69.0	68.2	65.2	65.2	125.8
( 699. RAD/SEC)	4000	86.8	84.8	84.0	83.1	79.0	78.0	78.9	76.1	72.5	67.6	67.8	69.9	71.0	68.0	67.1	127.7
NFK 6635. RPM	5000	85.3	84.1	82.2	80.4	84.2	80.6	79.5	76.5	77.0	72.8	73.4	73.1	72.4	71.4	70.5	129.1
( 695. RAD/SEC)	6300	84.2	83.4	82.3	80.0	79.6	73.7	76.5	73.4	71.0	68.1	67.4	67.4	67.7	64.6	64.7	126.5
NFD 10628. RPM	8000	82.4	82.0	79.6	77.7	78.7	76.3	77.2	72.4	70.1	66.3	65.3	65.2	64.4	63.2	62.4	125.8
(1113. RAD/SEC)	10000	82.5	81.3	78.4	76.8	77.5	74.6	74.3	71.6	68.3	66.1	65.3	64.5	65.6	62.5	61.4	125.3
NO. OF BLADES 44	12500	78.1	77.0	75.2	72.6	73.4	72.1	71.1	69.2	65.1	65.9	63.2	64.0	62.7	61.1	59.5	123.2
	16000	74.9	74.1	71.1	69.6	70.5	69.5	69.4	67.3	63.1	70.2	65.3	63.4	66.5	65.1	64.3	123.9
	20000	71.4	69.9	67.1	65.5	68.4	67.5	69.1	68.2	62.0	73.0	66.3	67.1	67.5	69.3	65.6	126.9
OVERALL MEASURED		93.8	92.9	91.8	91.3	91.3	90.3	91.2	88.9	87.6	87.8	86.2	86.0	85.3	85.3	85.3	
OVERALL CALCULATED		93.9	92.6	92.0	90.9	90.8	89.3	89.6	87.0	84.9	84.0	82.3	82.7	82.7	81.3	79.9	138.3
PNDR		107.9	106.4	105.8	104.9	104.8	102.6	102.6	99.9	98.4	95.3	95.1	95.3	95.1	93.6	92.6	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 8 DAY 1 HR. 15.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	72.9	72.6	71.6	72.1	71.8	71.0	73.8	69.7	69.5	69.6	68.0	67.5	69.0	69.5	67.9	119.8	
63	69.8	65.7	74.7	71.4	76.2	72.1	73.1	63.2	65.9	76.9	66.9	64.2	64.2	66.7	63.3	121.0	
RADIAL 100. FT. ( 30. M)	80	64.1	65.3	64.6	64.9	62.8	61.7	70.6	62.8	63.4	62.3	61.9	61.7	63.0	62.6	59.9	113.9
VEHICLE ATT	100	66.3	66.0	65.7	64.1	67.0	66.1	69.8	63.2	64.8	63.5	63.1	65.8	67.0	68.9	64.0	115.7
CONFIG APP	125	67.7	67.1	65.2	65.6	66.3	65.3	69.0	61.2	64.1	64.9	64.5	63.2	67.1	63.9	64.1	115.0
LOC PTO	160	63.4	60.8	65.0	62.4	62.0	62.3	66.7	61.2	59.7	60.6	60.2	62.8	63.2	62.9	60.2	112.2
DATE 7/12/74	200	69.2	69.3	68.6	66.9	67.9	66.0	67.5	63.6	61.4	62.2	59.9	61.6	61.6	64.4	60.7	114.3
RUN 274	250	75.6	74.9	74.8	74.3	73.2	72.2	72.0	70.1	67.7	64.9	64.3	63.7	64.0	65.0	64.4	119.6
TAPE A754	315	75.9	74.8	76.0	76.4	75.2	73.4	72.8	71.2	69.5	68.6	66.3	65.0	68.1	64.9	66.1	121.2
BAR 29.1 HG	400	72.8	71.7	72.7	72.9	72.1	70.3	69.7	67.9	65.5	64.6	64.9	66.6	66.7	63.6	63.9	118.3
(98152. N/H2)	500	72.4	71.6	71.8	71.8	70.9	69.1	68.6	66.9	66.7	63.5	65.8	67.8	66.7	63.5	63.3	117.8
TAMB 65. DEG F	630	79.5	78.2	78.1	78.2	76.4	74.2	73.2	71.4	70.9	70.0	70.1	70.1	70.3	66.2	66.2	122.9
(291. DEG K)	800	78.1	76.7	77.9	77.2	75.8	75.1	73.8	70.8	68.7	68.0	66.9	66.9	66.9	64.6	66.0	122.0
THET 58. DEG F	1000	80.1	78.9	79.3	79.6	79.2	79.7	77.2	74.3	72.2	71.3	69.3	70.2	69.4	68.2	66.4	125.3
(288. DEG K)	1250	80.9	79.7	81.3	80.4	78.3	78.2	78.0	75.9	71.7	70.7	69.8	70.9	70.8	68.9	66.9	125.7
HACT10.35 GM/M3	1600	79.3	76.9	79.0	78.2	76.1	75.2	74.8	72.0	69.6	67.9	66.0	69.0	68.2	66.8	65.3	123.1
(.01035 KG/M3)	2000	79.0	78.9	79.3	79.4	76.4	75.5	75.2	72.3	68.9	67.4	67.1	68.1	69.0	68.1	67.4	123.7
NFA 6635. RPM	2500	80.8	80.7	79.8	78.4	76.9	75.9	73.6	71.9	69.6	67.0	66.8	66.8	68.9	66.7	67.1	123.7
( 695. RAD/SEC)	3150	84.0	81.9	82.3	80.4	80.4	77.6	78.1	76.0	70.9	68.5	66.2	68.2	68.3	65.1	65.2	126.3
NFK 6597. RPM	4000	87.8	86.9	85.9	84.3	80.1	79.5	79.9	77.3	72.7	68.6	67.9	69.9	70.9	68.0	67.1	129.9
( 691. RAD/SEC)	5000	87.1	87.0	84.1	83.3	86.5	82.9	81.3	78.6	78.8	74.3	74.5	73.1	73.3	71.8	71.3	131.2
NFD10628. RPM	6300	86.5	86.1	84.4	80.9	81.6	79.0	78.4	74.3	72.2	68.9	68.4	67.4	68.4	65.1	65.4	128.3
(1113. RAD/SEC)	8000	84.2	84.3	82.5	80.4	81.8	78.7	78.3	73.5	71.1	66.9	66.4	65.3	65.7	64.3	62.7	128.1
NO. OF BLADES 44	10000	84.4	84.1	81.6	78.6	79.7	78.0	76.3	73.4	70.1	68.1	66.6	64.6	65.7	63.2	62.5	127.7
OVERALL MEASURED	12500	80.0	80.0	77.1	74.6	75.5	74.3	72.3	70.4	66.9	67.0	63.4	62.0	62.5	61.2	60.4	125.1
OVERALL CALCULATED	16000	76.9	76.0	73.2	71.3	72.5	71.4	70.1	68.4	65.1	68.7	64.6	64.1	64.0	65.3	64.6	124.8
PNDB	20000	72.2	71.9	69.4	67.3	69.2	68.6	68.1	69.2	63.8	73.7	63.2	68.2	67.4	68.3	66.4	127.4
		96.2	94.0	94.0	92.4	92.0	90.3	91.1	88.3	86.8	86.7	85.4	85.0	85.3	84.8	85.2	
		95.2	94.6	93.5	92.1	92.1	90.1	89.5	86.6	84.5	83.8	81.5	81.8	82.3	80.9	79.9	139.1
		109.0	108.2	107.4	106.0	106.2	103.7	102.9	99.9	98.7	95.6	95.1	94.8	95.2	93.5	92.8	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	72.9	72.4	70.7	71.9	71.6	70.7	74.8	69.7	69.3	69.4	68.0	67.8	69.7	69.8	67.8	120.0	
63	70.2	65.9	75.0	71.3	76.0	72.1	73.7	64.9	64.7	77.0	66.9	62.7	64.1	66.8	64.3	121.0	
RADIAL 100. FT. ( 30. M)	80	63.4	63.2	63.4	63.7	61.8	61.6	71.4	61.8	61.1	62.2	61.8	61.4	61.5	60.7	59.8	113.6
VEHICLE ATT CONFIG APP	100	67.8	65.8	65.7	64.0	66.7	64.0	70.9	67.0	68.4	62.9	65.8	70.8	69.1	70.5	66.2	117.6
LOC PTO	125	66.2	66.1	63.9	65.6	64.1	63.1	70.0	63.4	62.0	61.1	60.4	64.1	65.2	62.9	63.1	114.2
DATE 7/12/74	160	63.8	61.8	64.0	63.2	62.1	61.3	67.8	61.1	59.7	59.5	58.8	61.0	62.2	60.3	59.0	111.9
RUN 275	200	70.7	69.4	69.4	68.0	68.0	65.8	68.7	66.6	63.2	68.5	66.6	67.6	67.6	65.4	62.9	116.9
TAPE A754	250	75.6	75.0	74.7	74.3	73.1	72.0	71.9	69.2	66.6	65.6	64.4	65.0	64.0	64.0	64.2	119.4
BAR 29.1 HG (98152. N/M2)	315	75.0	74.8	76.0	76.1	75.9	73.0	71.8	71.0	69.5	67.8	66.0	65.7	65.3	63.7	63.9	120.9
TAMB 65. DEG F (291. DEG K)	400	72.7	71.7	73.9	74.1	72.7	71.1	69.7	67.9	66.5	64.5	64.7	65.8	66.9	64.0	63.0	118.8
TWET 58. DEG F (288. DEG K)	500	74.6	73.3	73.7	73.0	71.7	71.8	69.0	66.7	67.6	64.3	64.0	64.7	65.0	68.0	65.9	118.7
HACT10.35 GH/M3 (.01035 KG/M3)	630	79.0	77.9	78.1	77.6	77.2	74.3	73.9	71.3	69.9	67.7	67.3	66.9	67.3	66.9	65.3	122.5
NFA 6366, RPM ( 667. RAD/SEC)	800	78.7	80.0	80.1	78.1	75.8	75.2	74.0	72.1	69.4	69.8	67.1	66.7	68.1	65.9	66.1	123.1
NFK 6329, RPM ( 663. RAD/SEC)	1000	81.7	82.7	84.1	82.4	78.6	76.4	75.2	72.4	69.9	69.0	68.4	69.1	68.1	66.9	65.4	125.7
NFD10628, RPM (1113. RAD/SEC)	1250	80.5	81.0	81.0	81.0	80.1	77.2	75.9	73.8	69.6	68.6	68.9	69.7	69.9	67.7	65.0	125.3
NO. OF BLADES 44	1600	79.9	78.1	79.0	79.6	78.5	75.9	75.1	72.1	68.6	67.0	65.3	68.0	68.2	66.1	64.4	123.8
OVERALL MEASURED	2000	79.8	80.3	80.1	80.5	78.6	77.5	75.3	73.2	68.9	66.9	67.2	67.1	69.4	68.0	66.6	124.8
OVERALL CALCULATED	2500	82.5	82.7	81.8	80.4	79.2	77.9	73.9	70.9	67.7	65.5	65.8	66.8	68.1	66.9	65.9	125.1
PNOB	3150	88.2	86.9	86.2	84.5	83.5	80.3	80.1	77.3	72.0	69.9	67.3	68.9	68.2	65.2	65.4	129.8
	4000	91.8	90.6	89.7	87.4	84.9	84.2	82.2	79.0	75.5	69.8	70.1	70.9	72.0	69.7	68.0	132.4
	5000	91.9	91.0	89.1	87.3	85.3	81.3	86.3	85.4	81.5	81.9	77.0	75.4	75.3	74.5	73.0	135.1
	6300	90.4	90.3	88.5	85.8	85.6	82.5	81.4	78.5	75.2	71.4	70.5	68.3	70.4	66.4	65.8	132.2
	8000	89.2	89.0	87.2	86.7	87.4	84.4	84.5	79.8	76.2	72.0	70.3	69.4	69.5	67.4	65.5	133.6
	10000	88.4	88.0	86.5	85.7	86.4	83.4	82.3	79.4	75.9	73.2	70.5	67.6	69.4	65.4	64.4	133.4
	12500	85.0	84.8	83.3	81.3	82.5	80.3	79.5	76.4	73.0	69.9	67.2	65.0	64.4	62.1	62.4	131.2
	16000	81.2	81.9	80.3	78.5	79.4	78.4	76.2	73.3	69.9	74.1	67.2	65.4	64.6	64.3	65.5	159.7
	20000	76.5	76.9	75.3	73.3	74.7	73.2	72.4	73.2	66.0	76.1	68.4	68.2	67.3	65.4	66.4	139.4
		98.9	97.8	96.8	95.4	96.0	93.3	93.1	90.0	87.8	86.9	86.2	86.0	85.3	84.9	85.2	
		98.9	98.4	97.4	95.7	96.2	93.2	92.3	88.9	86.6	83.1	82.4	82.5	82.7	81.3	80.1	142.6
		112.3	111.4	110.8	109.0	110.1	106.4	105.6	102.1	100.7	97.2	95.9	96.0	96.0	94.3	93.4	



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	72.6	71.8	71.1	72.2	72.1	70.0	73.8	69.1	68.3	69.2	67.1	67.9	67.9	68.6	67.4	119.4	
63	69.9	65.9	74.0	70.4	75.1	71.2	74.1	64.4	65.6	77.2	66.1	63.1	62.1	68.0	64.0	120.8	
RADIAL 100. FT. ( 30. M)	80	63.7	63.3	62.9	33.0	61.8	51.6	70.9	61.6	61.2	60.8	60.9	60.7	59.6	60.4	60.1	113.1
VEHICLE ATT CONFIG APP	100	69.0	65.9	70.0	64.4	67.3	64.4	70.4	65.4	67.6	63.5	65.4	71.1	69.1	69.0	66.7	117.5
LOC PTO	125	66.4	65.9	64.6	64.7	65.4	63.7	69.7	61.3	60.7	60.4	59.6	62.5	63.6	61.4	63.1	113.6
DATE 7/12/74	160	65.0	63.6	64.9	63.3	64.0	61.1	68.1	62.3	60.6	60.1	59.1	61.3	61.3	61.7	60.5	112.4
RUN 276	200	70.2	69.6	71.1	69.0	68.5	67.1	69.4	65.0	65.7	68.4	66.0	66.0	64.9	67.0	62.6	117.0
TAPE A754	250	76.3	74.9	74.9	74.4	73.4	72.2	72.1	69.0	66.7	65.1	64.1	64.0	62.0	64.0	64.9	119.4
BAR 29.1 HG (98152. N/M2)	315	75.8	74.6	76.3	75.2	75.1	72.0	72.1	70.3	67.8	67.3	65.0	64.4	64.3	63.8	63.6	120.3
TAMB 65. DEG F (291. DEG K)	400	72.8	72.6	73.2	73.0	72.2	73.2	69.3	66.9	66.4	65.0	64.3	65.9	67.1	65.7	63.9	118.4
THET 58. DEG F (288. DEG K)	500	76.0	73.3	73.8	73.9	73.2	73.1	71.8	71.2	68.3	67.9	65.9	62.8	62.9	66.6	64.8	119.9
HACT 10.35 GM/M3 (.01035 KG/M3)	630	79.4	77.3	78.5	77.4	77.7	74.1	74.2	71.2	69.9	68.3	67.5	67.2	66.3	66.0	65.9	122.6
NFA 6263. RPM ( 656. RAD/SEC)	800	78.0	77.7	78.4	76.2	76.4	74.3	74.2	70.0	68.7	69.3	67.3	67.1	67.2	66.0	65.6	122.2
NFK 6227. RPM ( 652. RAD/SEC)	1000	81.1	81.0	82.6	81.3	77.5	76.3	74.4	72.2	68.9	68.5	68.3	68.5	66.2	67.2	64.7	124.7
NFD 10628. RPM (1113. RAD/SEC)	1250	81.9	81.0	82.1	80.4	77.5	75.4	74.2	72.1	69.5	68.3	67.0	69.2	68.3	67.9	65.9	124.4
NO. OF BLADES 44	1600	79.9	79.8	80.1	79.3	77.6	76.0	74.8	71.2	68.5	68.3	66.2	67.2	66.3	65.8	64.7	123.7
OVERALL MEASURED	2000	80.1	79.9	80.7	80.3	79.4	76.4	74.4	71.2	68.0	68.3	66.1	67.4	66.4	67.1	66.9	124.4
OVERALL CALCULATED	2500	82.8	82.7	83.1	80.3	79.2	77.4	73.1	71.1	67.4	66.0	65.0	65.9	65.9	66.7	65.4	125.1
PNOB	3150	89.4	87.8	88.6	85.6	84.6	80.7	80.2	77.3	71.9	69.4	67.3	69.6	68.2	66.0	65.8	130.4
	4000	92.0	91.9	90.1	88.2	85.5	85.1	83.2	79.3	75.7	71.0	70.3	70.1	71.2	68.7	68.7	133.2
	5000	91.2	92.0	89.2	87.7	90.7	87.4	85.4	81.5	80.9	75.6	74.5	73.2	72.5	70.2	71.0	135.1
	6300	90.5	90.3	89.7	85.5	85.8	83.5	82.7	79.8	75.0	71.6	70.7	68.6	69.6	66.1	66.2	132.7
	8000	90.1	90.0	88.7	86.8	87.8	85.5	84.7	80.7	77.0	72.6	71.6	70.3	68.7	67.3	66.1	134.3
	10000	88.5	88.3	87.7	85.6	86.6	84.7	83.5	80.4	75.7	73.6	70.7	68.4	67.6	65.4	64.9	134.1
	12500	85.1	85.9	84.6	81.6	83.5	81.4	80.3	77.3	72.8	70.3	67.3	65.4	64.3	62.0	61.8	132.1
	16000	82.2	82.2	80.7	78.9	79.6	77.9	76.5	74.2	69.8	74.6	67.5	67.3	63.8	64.1	63.9	131.0
	20000	77.2	77.2	75.5	73.7	73.7	73.5	72.4	70.4	65.0	76.6	66.5	68.6	65.5	66.3	67.0	130.4
	OVERALL MEASURED	98.8	98.6	97.3	95.6	96.1	94.0	93.2	89.1	87.6	87.3	85.1	85.2	84.2	84.1	85.0	
	OVERALL CALCULATED	99.1	99.0	98.0	95.8	96.3	93.9	92.7	89.3	86.3	85.2	82.1	82.1	81.3	80.8	80.0	143.0

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL	
FREQ. (0, )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
	50	72.6	71.8	70.8	71.0	71.1	70.0	72.6	69.1	68.7	69.3	66.9	67.0	66.8	67.8	67.4	118.9
	63	69.2	65.0	75.0	71.2	76.3	72.2	74.3	63.2	65.8	77.6	67.3	63.9	62.4	66.1	63.7	121.4
RADIAL 100. FT. ( 30. N)	80	64.4	66.4	65.9	64.6	63.1	60.8	70.6	63.8	64.3	64.0	61.6	61.9	63.8	63.4	61.4	114.3
VEHICLE ATY	100	66.9	64.1	65.3	65.1	67.3	65.1	69.4	64.0	66.8	66.2	63.3	65.9	65.1	67.9	63.5	115.8
CONFIG APP	125	64.0	63.4	61.6	63.4	64.4	61.3	68.6	59.6	63.8	64.4	61.3	61.7	62.3	61.4	63.9	113.3
LOC PTO	160	62.7	61.6	63.0	62.2	63.3	60.2	67.2	61.2	59.4	60.4	59.1	61.0	60.1	62.0	60.7	111.7
DATE 7/12/74	200	69.0	69.0	68.2	67.1	67.4	65.3	67.0	63.9	61.6	62.4	60.1	60.9	61.3	62.9	61.8	114.0
RUN 277	250	75.0	74.0	74.2	73.2	73.3	70.0	71.1	68.3	66.5	64.5	63.1	63.0	63.3	63.8	64.9	118.6
TAPE A754	315	75.9	73.9	74.9	74.3	74.0	72.3	71.1	69.1	66.6	66.2	64.5	64.3	64.4	64.1	64.9	119.5
BAR 29.1 HG	400	72.7	71.6	72.9	71.1	71.2	68.9	69.3	67.1	64.4	64.2	64.4	65.3	63.9	63.0	63.9	117.4
(98152. N/M2)	500	82.7	81.7	82.2	77.1	76.0	71.0	71.8	71.9	72.5	75.1	69.2	71.7	69.9	71.6	70.8	123.9
TAMB 65. DEG F	630	74.9	73.9	77.2	77.4	76.4	74.1	74.4	72.5	70.0	68.5	69.3	71.2	68.5	67.0	66.9	122.6
(291. DEG K)	800	73.0	71.9	74.1	74.3	73.2	72.2	72.1	70.2	67.5	67.4	66.2	66.3	65.0	64.0	64.9	119.9
TWET 58. DEG F	1000	79.1	78.0	80.3	79.6	79.4	78.3	77.3	75.4	72.6	71.2	71.5	72.2	70.4	69.1	67.8	125.5
(288. DEG K)	1250	79.0	79.8	84.3	81.2	80.7	78.2	79.1	75.3	73.4	70.0	68.1	71.2	71.0	70.0	68.6	126.8
HACT10.35 GM/M3	1600	79.2	80.2	80.1	80.2	79.2	77.2	76.0	75.2	70.7	69.1	68.0	71.2	69.0	67.6	66.7	125.1
(-01035 KG/M3)	2000	78.2	78.2	78.3	78.4	77.5	77.7	77.3	75.3	71.9	68.5	68.3	69.3	68.2	68.0	68.9	124.7
NFA 6706. RPM	2500	79.7	78.7	78.3	78.1	77.2	78.0	77.0	73.9	70.3	69.3	68.2	68.3	68.3	67.8	68.7	124.5
( 702. RAD/SEC)	3150	83.1	80.0	81.3	78.8	78.8	76.2	77.2	75.3	70.7	69.3	66.3	68.6	67.4	65.9	66.0	125.2
NFK 6668. RPM	4000	84.8	83.7	82.1	81.4	78.2	77.1	77.1	75.2	72.4	67.3	68.1	70.3	70.1	68.8	68.6	126.5
( 698. RAD/SEC)	5000	84.2	83.1	80.5	79.5	82.3	78.5	78.5	75.4	75.5	72.5	72.5	73.6	71.5	71.0	70.8	127.8
NFD10628. RPM	6300	82.4	82.2	81.6	77.7	77.7	74.6	74.3	72.4	68.9	67.6	66.4	66.5	66.4	63.5	64.9	124.9
(1113. RAD/SEC)	8000	81.5	80.1	78.6	75.7	77.9	74.6	74.4	70.4	68.9	65.7	64.7	64.9	63.4	63.1	62.9	124.3
NO. OF BLADES 44	10000	80.9	79.6	76.4	73.7	74.7	72.6	72.5	69.6	67.0	66.6	64.6	65.3	64.7	62.4	62.2	123.4
OVERALL MEASURED	12500	76.3	75.1	73.5	70.6	71.4	70.5	69.2	67.4	64.9	68.5	62.3	62.5	62.4	61.0	60.8	121.9
OVERALL CALCULATED	16000	73.2	72.1	70.3	67.7	68.6	68.5	68.2	67.5	65.2	72.4	65.4	65.4	66.3	65.3	62.9	123.9
PNDR	20000	70.3	68.9	67.3	67.4	68.5	67.5	69.3	68.1	65.8	73.5	66.6	68.2	68.4	67.1	67.1	127.3
		92.9	92.0	92.3	91.4	91.7	89.0	90.0	88.3	86.7	87.4	85.4	85.0	84.9	85.0	86.1	
		93.1	92.2	92.3	90.6	90.9	88.4	88.6	86.0	83.8	84.2	81.3	82.5	81.9	81.1	80.6	137.7
		106.7	105.7	105.2	103.9	103.9	101.1	101.3	98.8	97.1	95.0	94.1	95.3	93.0	93.3	93.2	

REPRODUCIBILITY OF THE  
 ORIGINAL PAPER IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

		0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	PHL
	FREQ. (0, )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	72.3	72.5	71.1	72.0	72.3	71.0	72.8	71.0	69.3	70.1	68.3	68.8	68.7	69.5	68.6	119.9
	63	69.6	65.6	75.2	72.1	76.4	72.1	74.0	63.1	65.8	77.3	67.6	64.1	63.2	67.0	63.6	121.3
RADIAL 100. FT.	80	64.2	64.3	63.8	62.9	62.9	61.7	71.6	61.7	61.1	61.8	62.9	61.9	60.6	61.4	59.9	113.8
( 30. M)	100	67.3	66.9	66.0	65.3	68.3	65.0	71.0	67.1	67.6	64.0	65.9	70.1	66.3	69.7	64.6	117.3
VEHICLE ATT	125	66.9	67.1	64.6	65.6	65.7	63.6	69.6	63.4	62.0	61.6	60.8	64.2	64.6	63.3	63.8	114.3
CONFIG APP	160	63.3	61.6	65.3	62.0	63.4	61.3	68.9	61.0	59.7	59.3	59.6	61.3	62.0	61.0	60.3	112.4
LOC PTO	200	71.7	70.6	71.3	68.9	68.3	67.2	69.3	64.1	62.6	65.4	65.5	64.0	62.3	65.0	62.7	116.1
DATE 7/12/74	250	75.7	74.8	75.0	74.1	73.2	72.1	71.8	69.2	66.7	65.1	64.3	64.1	63.1	64.0	64.5	119.3
RUN 279	315	76.6	75.9	77.2	76.4	76.4	73.2	72.8	71.1	69.6	67.4	65.6	66.1	64.3	64.1	65.6	121.3
TAPE A754	400	73.7	73.5	75.1	74.2	73.4	71.9	70.8	68.0	65.6	65.2	65.2	65.1	64.3	63.5	63.7	119.2
BAR 29.1 HG	500	76.3	75.5	76.0	73.9	73.9	74.0	73.0	68.0	66.4	64.1	69.0	69.0	68.0	69.7	64.7	120.8
(98.52, N/H2)	630	80.1	78.9	79.6	78.9	77.7	75.3	75.2	72.5	70.9	70.5	68.8	68.4	67.9	68.5	67.0	123.7
TAMB 65. DEG F	800	79.7	79.1	80.2	79.2	77.3	76.0	76.1	72.3	69.5	69.3	69.1	69.0	68.4	66.8	66.6	123.9
(291, DEG K)	1000	82.9	83.0	83.5	81.6	78.7	77.8	77.2	74.6	70.9	70.6	69.4	71.3	68.3	68.3	68.9	126.1
TWET 58. DEG F	1250	83.7	82.8	83.0	82.5	80.3	79.1	77.3	74.3	70.7	70.2	68.9	71.0	70.2	69.2	67.8	126.6
(288, DEG K)	1600	81.0	79.1	80.1	79.6	78.3	77.4	76.0	73.3	69.6	67.9	66.9	68.2	68.2	66.1	65.6	124.4
HACT 10.35 GM/M3	2000	80.2	80.1	81.4	80.4	80.5	79.7	77.4	75.5	71.7	69.6	68.0	68.4	68.5	68.3	67.9	126.2
(.01035 KG/M3)	2500	82.9	82.9	82.1	80.2	79.2	78.0	74.1	71.2	68.6	67.3	65.6	67.3	67.1	67.7	66.6	125.2
NFA 6423. RPM	3150	89.2	87.2	87.4	84.4	83.8	80.6	80.2	77.6	72.0	70.3	67.2	69.3	68.2	65.9	65.7	129.7
( 672. RAD/SEC)	4000	92.0	90.6	89.4	88.4	85.3	84.1	83.2	79.1	75.5	71.1	70.7	71.1	71.2	70.0	68.6	132.7
NFK 6386. RPM	5000	93.3	91.2	89.4	87.3	91.7	87.9	85.5	81.8	82.0	77.5	76.3	75.5	76.6	72.9	71.8	135.6
( 669. RAD/SEC)	6300	90.5	90.3	88.7	85.6	85.6	82.8	81.5	78.8	75.0	71.7	70.4	69.5	69.6	66.3	67.1	132.2
NFD 10628. RPM	8000	90.3	89.0	87.7	86.7	86.8	84.5	84.6	78.8	77.0	72.5	70.4	69.5	68.4	67.3	66.1	133.6
(1113. RAD/SEC)	10000	89.3	89.2	87.7	85.8	86.8	84.0	82.5	79.5	75.1	72.3	70.4	68.7	67.6	66.6	64.9	133.9
NO. OF BLADES 44	12500	85.5	84.3	83.4	81.4	82.5	80.5	79.6	76.3	71.8	70.3	66.6	64.2	64.3	62.2	62.2	131.2
	16000	82.6	81.2	79.7	78.6	78.6	77.8	76.2	73.4	70.0	72.6	65.6	65.7	65.6	65.2	65.0	130.3
	20000	77.3	76.2	74.5	73.5	73.6	72.4	72.5	70.2	67.9	75.6	66.6	68.3	67.5	66.1	66.9	130.0
OVERALL MEASURED		99.1	98.7	97.2	96.1	96.1	94.0	93.0	90.3	88.5	88.3	86.9	87.2	86.3	86.2	86.6	
OVERALL CALCULATED		99.8	98.6	97.6	95.9	96.5	93.9	92.8	89.2	86.8	85.4	82.9	83.0	82.6	81.7	80.6	142.9
PNDG		113.0	111.7	110.9	109.5	110.5	107.6	106.1	102.4	101.0	97.8	96.6	96.5	96.6	94.6	93.6	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
	50	72.5	71.5	70.8	72.0	72.5	70.9	73.0	70.1	68.5	78.1	68.1	68.0	67.9	68.9	67.4	119.6
	63	69.8	64.6	75.1	72.1	77.4	73.1	73.3	63.1	65.7	77.2	67.6	63.1	64.2	66.9	62.7	121.5
RADIAL 100. FT. ( 30. M)	80	62.5	63.3	62.8	63.0	68.3	61.9	70.8	61.6	61.1	61.8	62.1	61.9	64.2	66.8	59.1	113.8
VEHICLE ATT CONFIG APP	100	67.8	65.9	68.4	64.1	70.6	64.0	70.3	67.3	67.6	63.5	65.3	70.1	67.3	68.9	65.6	117.4
LOC PTO	125	66.2	65.2	64.6	64.5	70.6	63.3	69.3	61.6	61.1	60.5	59.3	62.2	63.3	61.1	64.1	114.3
DATE 7/12/74	160	63.8	61.6	63.9	61.1	71.5	60.9	67.9	61.9	59.6	59.3	59.2	60.9	61.2	61.1	59.7	113.5
RUN 281	200	71.6	70.8	70.2	69.2	73.2	67.1	69.1	65.9	64.5	66.4	66.2	68.1	67.2	65.8	62.9	117.8
TAPE A959	250	77.0	74.8	75.2	74.3	75.6	72.3	71.2	69.2	66.9	65.3	63.2	64.2	63.3	63.8	64.5	119.8
BAR 29.1 HG (98165. N/M2)	315	76.7	75.9	76.3	76.4	77.6	74.0	72.2	71.9	69.8	68.3	65.2	66.1	66.1	65.1	64.8	121.7
TAMB 65. DEG F (291. DEG K)	400	73.7	71.8	74.1	74.1	77.2	71.4	72.1	68.9	66.4	65.3	64.9	66.1	64.9	64.9	63.4	120.1
THWT 59. DEG F (288. DEG K)	500	74.8	73.7	74.7	73.8	77.8	72.7	71.0	69.1	68.3	63.9	67.0	64.7	63.1	66.6	64.6	120.6
HACT 11.07 GM/M3 (.01107 KG/M3)	630	79.1	78.2	78.7	77.6	79.2	74.3	74.2	72.4	70.7	68.5	68.6	68.6	66.2	66.0	65.9	123.2
NFA 6324. RPM ( 662. RAD/SEC)	800	78.0	78.1	79.4	78.6	79.3	76.3	75.1	71.9	71.0	68.1	69.4	70.2	68.0	66.0	65.5	123.9
NFK 6288. RPM ( 658. RAD/SEC)	1000	84.3	83.1	83.3	81.5	80.2	76.4	75.4	72.2	69.9	68.6	68.3	69.4	67.4	67.2	65.7	125.6
NFD 10628. RPM (1113. RAD/SEC)	1250	82.2	81.7	82.3	80.4	81.1	77.6	75.2	72.0	69.5	68.2	67.3	69.0	68.2	67.9	66.7	125.4
NO. OF BLADES 44	1600	80.9	79.1	81.0	79.2	81.1	77.4	76.1	71.2	68.5	67.3	66.0	68.0	66.2	65.9	64.5	124.9
	2000	81.1	81.0	81.6	80.6	81.4	78.8	76.4	72.2	69.9	67.5	66.3	67.2	67.4	67.0	66.1	125.8
	2500	83.0	82.7	83.0	80.1	82.9	77.4	73.7	71.1	67.4	65.9	66.0	65.9	66.2	66.6	66.7	126.1
	3150	90.2	87.1	88.3	85.6	86.1	80.4	80.1	77.6	71.9	69.4	67.6	69.3	67.4	66.1	66.0	130.6
	4000	93.0	92.6	90.0	88.1	87.0	85.2	82.3	78.0	75.3	71.0	70.2	70.9	71.2	69.6	68.6	133.3
	5000	92.3	91.2	89.4	87.4	91.0	87.7	85.2	81.3	80.6	76.4	75.4	74.4	73.2	71.1	71.2	135.2
	6300	90.3	90.2	89.5	85.8	87.5	83.8	82.4	78.4	74.0	71.6	69.7	68.6	68.6	66.1	66.1	132.9
	8000	89.4	89.8	87.6	85.7	89.4	85.6	84.3	80.4	77.8	72.6	71.5	69.4	68.6	67.0	66.0	134.4
	10000	89.1	88.8	86.5	85.4	89.4	84.2	83.5	80.4	75.7	73.2	70.5	68.5	68.4	66.2	64.8	134.6
	12500	85.1	85.0	83.3	81.3	88.0	81.2	79.4	77.4	73.4	71.3	67.2	65.0	65.1	64.0	62.6	133.2
	16000	82.0	81.9	79.4	78.6	88.0	77.2	76.2	73.0	69.7	75.3	65.0	66.2	65.2	65.9	64.5	133.9
	20000	76.8	75.7	74.0	73.1	88.9	72.7	72.6	69.1	65.5	76.4	65.2	68.8	67.8	66.7	67.5	136.3
OVERALL MEASURED		99.8	98.8	98.4	95.1	100.8	94.4	93.3	90.0	87.7	85.3	85.4	85.2	85.3	85.2	84.6	
OVERALL CALCULATED		99.7	99.0	97.8	95.7	98.9	94.1	92.5	89.0	86.4	85.4	82.4	82.5	81.7	81.0	80.1	144.2
PND8		113.3	112.6	111.2	109.3	111.2	107.5	105.7	102.0	100.2	97.1	96.0	95.7	94.8	93.4	93.0	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	73.6	73.4	72.0	73.1	72.1	72.2	73.0	71.1	70.3	70.1	69.1	68.8	69.1	70.6	68.4	120.4
63	70.0	66.0	75.2	72.3	76.3	72.3	74.0	64.4	66.6	77.3	68.3	65.0	64.0	66.7	65.0	121.5
RADIAL 100. FT. ( 30. M)	80	64.5	67.4	66.5	65.7	62.9	62.9	70.9	64.6	64.1	63.9	62.8	62.7	64.6	63.4	114.7
100	66.9	66.9	66.2	65.2	68.4	67.2	70.3	64.3	64.5	64.1	65.2	67.1	67.0	69.8	65.5	116.6
VEHICLE ATT	125	69.2	68.1	66.3	66.8	66.4	65.6	70.7	62.5	61.9	63.5	64.5	64.5	66.5	64.3	115.5
CONFIG APP	160	62.9	61.6	65.8	62.1	62.1	63.2	68.9	63.0	60.3	62.3	62.4	63.3	63.4	63.0	113.4
LOC PTO	200	69.7	69.8	69.2	68.3	69.2	66.2	69.2	64.1	61.5	63.2	61.0	61.4	61.4	63.8	115.1
DATE 7/12/74	250	76.8	75.0	75.2	74.4	73.5	72.1	72.2	70.2	67.6	65.4	65.4	64.2	63.4	65.1	119.8
RUN 282	315	76.8	75.7	77.2	76.2	76.3	74.2	73.2	71.4	68.7	68.3	66.1	66.0	65.3	66.0	121.5
TAPE A959	400	73.7	71.8	73.9	72.8	73.4	73.4	71.0	67.9	66.4	65.0	64.4	65.1	65.0	64.1	118.8
BAR 29.1 HG	500	75.8	73.4	74.7	74.8	73.0	71.0	70.1	69.1	66.4	64.9	68.0	67.9	65.9	64.9	119.5
(98165. N/M2)	630	80.5	78.2	79.4	78.4	78.7	75.5	75.4	73.4	70.7	69.5	71.4	70.1	68.6	66.2	123.9
TAMB 65. DEG F	800	78.0	78.8	79.4	78.2	77.4	75.3	74.2	71.3	68.5	69.2	69.9	67.0	68.1	66.0	123.2
(291. DEG K)	1000	80.1	80.9	82.4	81.6	78.9	73.6	77.1	73.2	70.5	69.3	70.3	70.4	68.3	68.0	125.7
THET 59. DEG F	1250	82.3	81.0	82.4	81.4	81.6	77.2	78.1	74.1	71.8	70.1	71.2	71.1	69.3	69.6	126.2
(288. DEG K)	1600	80.9	78.7	79.2	78.2	76.4	75.2	74.9	71.3	68.7	67.2	68.2	68.3	67.2	66.9	123.2
HACT11.07 GM/M3	2000	80.9	80.0	80.7	80.6	78.7	76.5	75.4	73.5	69.9	68.5	68.5	68.2	68.2	69.0	124.9
(.01107 KG/M3)	2500	82.8	83.0	81.2	79.2	78.2	77.4	74.2	72.1	69.6	68.2	67.0	67.1	68.2	67.9	124.8
NFA 6621. RPM	3150	86.2	85.1	85.3	82.5	82.4	79.4	79.7	77.4	72.6	70.3	67.2	69.2	67.2	66.2	128.4
( 693. RAD/SEC)	4000	91.0	89.6	88.1	87.2	83.4	83.3	82.5	79.0	75.5	70.2	70.2	71.2	71.2	68.7	131.6
NFK 6583. RPM	5000	90.3	89.9	86.5	85.4	89.5	85.4	84.3	80.4	80.9	76.7	74.3	73.4	73.2	72.3	133.7
( 689. RAD/SEC)	6300	89.2	88.0	86.6	83.7	83.8	80.9	79.4	77.5	74.0	70.7	69.4	68.4	67.5	66.1	130.3
NFD10628. RPM	8000	87.3	86.2	84.4	83.7	84.4	81.7	81.6	76.2	73.7	70.4	68.5	67.5	66.5	65.5	130.9
(1113. RAD/SEC)	10000	87.3	86.1	83.5	82.5	82.5	80.4	78.6	76.5	72.7	70.3	68.4	66.6	66.5	65.0	130.3
NO. OF BLADES 44	12500	83.0	81.9	80.4	77.3	78.3	77.2	76.1	73.0	69.7	68.2	65.2	64.5	64.3	62.8	127.8
16000	80.0	79.1	76.2	74.3	74.3	74.2	73.2	71.0	67.7	67.1	64.4	63.4	65.9	65.9	64.7	127.4
20000	75.9	73.6	72.0	69.2	71.2	69.9	70.0	68.2	66.5	74.1	66.0	68.7	68.0	68.6	67.4	128.3
OVERALL MEASURED	97.8	97.0	95.3	94.4	94.7	92.2	92.2	90.0	87.7	87.6	86.2	86.5	86.5	86.1	85.8	
OVERALL CALCULATED	97.9	96.9	95.6	94.2	94.4	91.9	91.3	88.0	85.8	84.7	82.7	82.4	81.9	81.9	80.6	141.0
PND8	111.6	110.5	109.4	108.3	108.7	105.7	104.9	101.4	100.1	97.2	95.7	95.2	94.9	94.1	93.6	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	73.7	73.7	71.8	73.0	72.9	71.9	74.0	70.6	70.6	71.0	69.8	68.8	69.1	70.9	69.5	120.8
63	69.8	66.1	75.0	72.1	76.2	72.0	74.1	64.0	67.0	77.4	67.3	65.0	64.2	66.1	65.7	121.4
RADIAL 100. FT. ( 30. M)	80	64.4	64.5	64.4	64.6	64.7	61.8	71.8	63.3	64.6	64.0	62.5	62.0	63.6	63.7	114.8
VEHICLE ATT	100	67.6	65.9	64.7	65.1	67.9	65.0	70.9	63.6	64.7	64.0	63.9	65.2	65.0	68.0	115.8
CONFIG APP	125	71.0	70.3	67.0	69.4	67.3	67.1	70.4	63.0	67.1	68.4	68.0	65.3	66.4	66.3	117.1
LOC PTO	160	62.8	61.3	64.7	62.0	62.0	61.1	69.0	60.9	59.9	68.0	60.3	62.2	62.1	61.9	112.5
DATE 7/12/74	200	69.7	69.8	69.1	67.1	68.8	66.0	68.2	63.9	62.2	63.1	59.9	61.3	61.3	64.2	114.8
RUN 283	250	76.8	76.2	75.9	75.3	73.9	72.8	73.1	69.5	67.9	64.0	63.9	64.1	63.0	65.0	120.2
TAPE A959	315	78.2	77.3	80.9	80.3	80.0	79.1	79.4	77.1	74.2	73.3	71.2	67.3	71.1	68.2	126.1
BAR 29.1 HG	400	74.8	74.9	76.8	76.1	75.8	74.9	74.2	70.8	69.7	69.1	69.8	68.9	68.2	66.1	122.0
(90165. N/M2)	500	72.7	71.9	72.6	71.0	70.0	69.6	68.9	67.8	65.9	64.3	65.1	66.9	66.8	65.0	117.8
TAMB 65. DEG F	630	89.2	87.5	85.0	81.4	79.2	75.9	76.3	73.8	73.9	70.6	71.4	73.3	73.4	69.4	127.0
(291. DEG K)	800	82.0	80.3	79.9	78.4	77.0	76.9	77.4	73.6	72.8	71.4	70.0	68.1	68.0	68.1	124.5
THET 59. DEG F	1000	79.3	79.7	80.5	79.4	77.5	78.2	77.2	74.1	71.9	69.7	69.6	71.5	69.4	67.3	124.9
(288. DEG K)	1250	82.0	80.4	80.2	79.2	79.0	77.2	77.3	74.7	71.7	70.5	69.2	72.3	71.0	69.1	125.2
HACT 11.07 GM/M3	1600	80.2	78.1	78.9	77.5	76.1	76.0	75.1	71.9	69.7	68.4	67.2	69.0	68.0	68.0	123.3
(.01107 KG/M3)	2000	79.4	78.5	79.1	78.3	76.2	75.2	74.5	71.9	70.0	67.7	67.5	68.6	69.2	68.4	123.4
NFA 6764. RPM	2500	80.8	80.1	79.8	78.4	77.3	76.9	73.8	71.8	69.7	68.1	67.0	68.1	68.1	68.0	124.0
( 708. RAD/SEC)	3150	84.1	81.5	82.1	79.4	79.2	76.2	76.4	74.1	71.1	68.3	66.5	69.2	66.4	65.3	125.4
NFK 6725. RPM	4000	86.8	86.0	84.8	83.2	79.1	77.9	79.0	75.7	71.9	67.4	67.0	70.1	70.0	68.0	128.0
( 704. RAD/SEC)	5000	87.0	86.4	82.3	81.3	84.4	80.4	80.4	76.2	77.2	73.6	73.3	73.3	72.3	72.1	129.5
NFD 10620. RPM	6300	85.2	84.6	83.2	79.7	80.7	77.3	75.6	73.0	71.3	69.5	68.4	67.6	67.4	66.2	127.0
(1113. RAD/SEC)	8000	83.3	83.3	80.1	78.4	78.6	76.3	76.4	72.2	70.2	60.4	65.4	66.4	64.3	63.5	126.0
NO. OF BLADES 44	10000	83.0	82.2	79.5	77.4	77.4	73.9	74.3	71.3	69.2	67.6	65.3	65.4	65.6	63.5	125.7
12500	16000	78.2	78.4	76.1	72.1	73.0	72.0	71.2	68.1	67.0	67.6	63.2	62.5	62.4	62.2	123.5
20000		74.6	75.1	71.8	69.2	70.1	68.8	70.0	67.0	65.8	65.8	73.2	63.3	64.5	64.3	124.6
OVERALL MEASURED		70.5	70.8	67.6	65.9	68.7	66.7	71.0	66.6	67.6	76.2	64.6	68.0	67.0	67.0	128.2
OVERALL CALCULATED		95.9	95.0	93.1	92.2	92.2	89.9	91.2	88.0	88.0	86.6	85.3	86.3	85.3	85.2	87.0
PND8		95.9	94.9	93.6	91.8	91.4	89.4	89.6	86.2	84.9	84.8	82.2	82.7	82.4	81.6	81.4
		108.9	108.0	107.0	105.4	105.2	102.5	102.5	99.0	98.2	95.7	94.9	95.4	94.7	94.1	93.7

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	73.6	73.9	72.0	72.9	72.9	71.7	73.1	70.7	70.8	71.4	69.1	69.0	68.7	70.0	68.6	120.5	
63	70.0	66.2	74.7	70.2	76.1	72.1	73.1	64.0	66.0	77.3	66.4	64.5	63.0	66.0	65.8	121.0	
RADIAL 100. FT. ( 30. M)	80	64.3	63.8	62.6	61.7	61.7	60.8	70.9	60.4	60.4	61.7	68.8	59.9	59.0	61.8	60.3	112.9
VEHICLE ATT	100	67.8	65.3	63.7	65.0	66.0	63.0	71.2	62.8	64.1	61.0	62.8	64.9	65.4	69.9	63.8	115.6
CONFIG APP	125	72.8	69.6	64.1	68.4	69.2	61.3	69.3	68.0	64.2	61.4	62.1	62.3	64.2	62.4	64.0	115.3
LOC PTO	160	60.9	61.3	61.7	62.2	62.9	60.1	68.3	59.9	59.8	60.3	59.2	61.2	59.9	62.0	61.7	111.9
DATE 7/12/74	200	67.9	70.0	69.1	68.4	68.1	65.8	69.2	63.1	62.8	63.1	59.9	61.3	60.0	63.3	62.0	114.9
RUN 284	250	73.0	73.2	73.9	71.1	70.1	68.3	69.1	65.9	65.9	62.4	63.0	63.0	62.1	63.4	63.2	117.0
TAPE A959	315	73.7	73.0	74.0	72.9	72.9	69.0	69.2	66.7	69.9	64.3	65.0	65.0	64.3	65.1	64.8	118.2
BAR 29.1 HG (98165. N/M2)	400	79.7	78.9	77.8	77.8	76.9	73.0	72.0	68.8	67.8	67.2	65.3	69.1	67.1	66.0	66.7	121.0
TAMB 65. DEG F (291. DEG K)	500	73.5	72.0	71.8	71.8	71.9	70.9	72.0	69.5	66.7	69.9	66.1	67.0	66.0	66.8	65.8	119.0
THET 59. DEG F (288. DEG K)	600	71.1	70.4	72.2	72.3	74.2	72.9	72.5	75.0	67.1	68.3	71.4	71.4	72.2	69.2	71.2	121.9
HACT11.07 GM/M3 (.01107 KG/M3)	800	73.7	72.1	73.7	74.1	72.0	71.1	71.1	68.8	67.8	67.1	67.0	66.3	65.0	66.1	64.8	119.4
NFA 7604. RPM ( 733. RAD/SEC)	1000	75.0	72.3	74.9	74.4	72.2	72.1	72.8	69.9	68.2	67.5	67.4	69.4	67.4	67.2	66.3	120.5
NFK 6964. RPM ( 729. RAD/SEC)	1250	74.9	73.9	72.8	74.3	72.9	71.0	72.4	69.8	66.9	67.4	67.2	70.3	69.1	68.5	67.8	120.5
NFD10628. RPM (1113. RAD/SEC)	1600	72.2	70.9	71.8	72.9	70.2	68.8	70.3	67.8	66.0	69.2	65.0	68.1	67.2	67.1	66.9	118.7
NO. OF BLADES 44	2000	72.1	71.0	72.2	73.1	71.5	69.2	69.6	66.1	65.2	65.5	67.3	68.3	68.5	69.2	69.1	119.3
	2500	71.8	72.0	71.9	72.1	71.2	68.7	68.1	65.9	63.9	64.2	65.3	67.9	67.1	67.1	67.8	118.5
	3150	73.1	71.1	71.2	71.2	69.4	67.0	68.4	66.9	64.3	63.5	63.5	68.2	65.2	65.4	66.2	117.8
	4000	74.8	74.9	72.9	72.9	70.3	69.8	70.0	68.0	66.8	64.0	65.9	69.0	69.2	68.0	67.7	119.9
	5000	73.9	74.1	73.2	72.3	75.4	73.1	74.5	71.8	73.2	72.5	73.1	74.5	72.3	72.4	71.2	124.2
	6300	72.3	71.5	72.3	69.6	69.3	68.2	68.4	66.1	65.4	66.4	67.3	67.5	66.6	65.7	66.4	119.0
	8000	70.0	69.4	68.2	67.5	67.3	66.1	66.7	64.0	63.5	62.4	63.3	64.3	62.7	63.5	63.3	116.9
	10000	69.3	68.2	67.1	65.6	66.3	65.3	66.4	64.2	63.4	64.5	64.5	65.3	64.3	63.3	62.3	117.7
	12500	65.8	65.3	64.1	62.1	64.2	63.0	65.2	61.9	61.0	66.6	62.4	62.2	62.5	61.1	63.0	117.3
	16000	64.7	64.3	63.0	62.0	63.9	63.8	67.2	63.5	60.9	73.0	65.0	65.0	64.0	64.3	64.9	122.3
	20000	65.8	64.8	64.0	62.8	67.0	65.8	71.0	65.6	60.6	74.1	66.0	67.1	66.0	67.9	67.8	126.8
OVERALL MEASURED		89.9	88.3	86.7	88.1	88.2	87.3	89.4	87.2	85.7	87.0	86.2	86.2	86.6	86.2	87.1	
OVERALL CALCULATED		86.9	86.1	86.2	85.9	85.7	83.6	85.0	82.2	80.7	83.1	80.7	82.0	81.1	81.2	80.8	134.4
PNOB		99.0	98.4	97.7	97.6	97.8	95.7	97.0	94.2	93.9	93.4	93.8	95.3	93.9	94.0	93.3	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 PROC. DATE - MONTH 8 DAY 1 HR. 15.4  
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	72.5	72.9	71.6	72.0	71.7	70.8	74.0	69.6	69.8	69.8	67.8	67.9	67.9	69.0	67.8	119.8
	63	69.8	65.3	74.8	71.0	77.0	73.0	74.2	62.8	66.1	77.1	67.0	63.1	64.9	65.2	121.4
RADIAL 100. FT.	80	64.3	64.5	64.5	62.7	61.7	60.7	71.8	61.2	60.4	61.6	60.9	59.9	59.6	60.8	113.5
( 30. M)	100	68.6	66.0	64.0	64.9	66.9	64.1	71.0	64.0	64.1	60.9	64.3	66.0	64.9	69.0	115.6
VEHICLE ATT	125	72.9	69.3	62.3	64.4	68.0	63.0	70.4	66.9	61.3	64.3	66.3	61.6	64.5	63.1	115.3
CONFIG APP	150	62.0	60.1	61.7	61.1	61.9	59.7	69.2	59.6	59.0	61.2	59.1	60.9	60.3	61.8	112.1
LOC PTO	200	65.0	64.1	64.1	64.2	66.0	63.1	68.1	61.0	60.8	62.4	59.4	60.0	60.0	63.0	112.9
DATE 7/12/74	250	70.8	70.1	69.8	68.1	68.0	68.9	68.0	64.0	64.2	61.1	61.0	61.3	61.3	61.9	114.8
RUN 285	315	69.9	70.1	69.8	69.2	69.0	67.0	68.2	64.7	63.2	63.0	63.0	64.2	63.0	63.0	115.6
TAPE A959	400	74.8	76.0	74.9	74.2	76.9	76.8	74.1	71.6	73.8	68.0	68.1	69.1	70.1	67.0	122.9
BAR 29.1 HG	500	69.5	70.0	69.0	69.0	70.8	69.8	69.1	69.4	67.8	63.8	65.9	68.8	66.8	66.9	118.1
(98.82. N/M2)	630	71.0	70.2	71.1	72.4	75.2	72.0	71.4	75.2	69.0	66.4	71.3	75.3	72.5	69.5	122.4
TAMB 66. DEG F	800	79.1	77.5	76.2	78.3	74.9	77.1	79.3	77.0	75.0	76.2	72.0	72.3	68.2	69.1	125.5
(292. DEG K)	1000	75.9	74.1	74.9	75.5	73.9	73.2	73.5	72.1	69.2	69.5	67.5	70.5	68.5	67.2	121.6
TWET 60. DEG F	1250	76.8	77.3	76.0	76.4	75.1	73.7	74.1	78.7	68.8	69.2	68.0	70.3	71.2	70.2	122.4
(289. DEG K)	1600	74.9	73.9	75.1	74.3	73.0	73.8	74.9	73.6	70.1	69.2	68.0	69.2	67.3	67.2	122.0
MACT11.91 GM/M3	2000	74.9	74.1	76.3	76.4	73.2	73.2	74.2	72.2	70.2	68.4	68.4	69.4	68.4	69.5	122.2
(.01151 KG/M3)	2500	76.6	75.1	75.7	74.7	72.9	72.7	73.0	69.6	66.9	66.0	66.2	68.1	68.0	67.9	121.0
NFA 6903. RPM	3150	79.0	76.4	77.1	75.4	74.2	72.9	74.2	71.1	67.2	69.2	64.1	68.3	65.2	65.1	121.7
( 723. RAD/SEC)	4000	81.8	80.2	77.9	78.0	74.7	73.6	74.0	71.6	68.7	65.1	65.9	68.2	69.1	68.8	123.2
NFK 6857. RPM	5000	80.4	78.3	76.3	75.4	79.1	76.2	75.1	72.8	73.9	74.1	72.3	74.3	74.1	71.1	125.7
( 718. RAD/SEC)	6300	78.4	77.6	77.2	73.5	73.4	70.3	70.6	68.1	67.2	66.3	66.6	66.4	66.6	65.3	121.4
NFD10628. RPM	8000	76.2	75.4	73.3	71.3	72.0	69.3	70.4	66.3	65.3	63.4	63.5	64.7	62.4	62.4	117.9
(1113. RAD/SEC)	10000	75.0	74.1	72.2	69.4	70.2	68.1	68.5	67.0	64.2	65.4	63.5	65.4	64.5	62.6	119.9
NO. OF BLADES 44	12500	71.6	70.4	68.0	66.0	66.2	65.8	65.0	63.1	61.9	66.2	62.0	62.4	62.4	61.3	118.4
	16000	68.9	68.1	65.7	63.8	66.0	64.9	65.9	63.6	59.8	72.1	61.8	66.0	65.0	65.0	122.1
	20000	66.4	65.8	65.4	61.9	66.6	65.6	67.8	66.3	60.6	74.8	66.9	68.5	68.1	65.8	126.9
OVERALL MEASURED		91.0	89.3	88.9	89.2	88.7	88.0	90.0	87.9	87.1	88.1	86.4	86.3	86.2	85.3	
OVERALL CALCULATED		89.6	88.4	87.9	87.3	87.3	86.1	87.0	84.5	83.1	84.1	81.2	82.9	82.2	81.1	135.8
PND8		103.5	102.2	101.0	100.6	100.4	98.5	98.9	96.2	95.4	95.0	93.8	95.6	95.1	93.5	



	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	71.6	72.1	70.9	70.9	71.7	70.7	73.8	69.8	69.6	69.9	66.8	67.1	67.8	68.8	67.5	119.5
	63	68.7	64.9	74.9	71.0	76.1	73.0	74.0	62.1	66.1	77.0	66.0	63.1	63.2	66.2	65.2	121.1
RADIAL 100. FT.	80	61.4	61.6	61.6	60.0	59.5	58.8	70.8	58.4	59.7	60.6	59.6	57.7	57.6	59.5	58.3	112.1
( 30. M)	100	67.7	64.0	61.7	65.0	66.0	62.1	70.3	62.9	61.7	59.0	60.9	64.0	65.2	68.2	61.1	114.5
VEHICLE ATY	125	72.0	68.3	63.4	68.3	68.4	59.2	69.3	67.0	62.4	61.2	61.2	60.2	63.2	60.4	63.1	114.5
CONFIG APP	160	57.9	56.9	58.6	61.0	63.1	58.7	68.0	59.6	58.9	61.2	58.9	60.3	59.3	62.2	61.0	111.5
LOC PTO	200	60.0	59.3	60.7	62.0	65.2	60.8	67.3	60.7	59.2	60.3	59.2	59.0	59.4	62.3	59.8	111.7
DATE 7/12/74	250	64.8	64.1	64.7	63.0	65.2	62.2	66.5	63.1	62.2	60.3	62.3	60.4	61.0	62.2	61.8	112.7
RUN 287	315	77.0	76.0	76.1	76.5	73.0	70.0	68.2	64.1	65.1	64.0	63.4	63.4	64.0	63.4	64.2	119.1
TAPE A959	400	75.6	76.2	75.9	74.9	74.1	71.9	70.0	67.0	66.5	67.1	63.2	66.9	66.3	65.0	64.5	119.8
BAR 29.1 HG	500	63.8	64.8	65.8	65.2	64.9	64.9	65.1	66.5	61.9	61.0	65.1	65.0	65.0	64.1	65.6	114.6
(98182. N/M2)	630	68.0	68.6	71.1	71.4	72.2	71.2	69.5	73.0	66.0	66.3	71.4	70.4	71.3	68.3	70.4	120.4
TAMB 66. DEG F	800	69.9	69.0	70.9	72.0	70.2	70.8	69.1	65.9	65.9	65.2	65.2	64.0	64.3	64.9	64.1	117.6
(292. DEG K)	1000	70.1	69.4	71.1	69.4	69.2	69.0	68.2	65.4	64.4	64.4	65.2	68.5	67.4	66.3	65.4	117.4
TWET 60. DEG F	1250	73.1	73.2	73.0	71.0	70.2	68.8	70.1	66.8	66.2	65.9	66.1	69.2	68.4	68.2	68.0	118.9
(289. DEG K)	1600	71.9	72.1	71.7	72.0	69.3	66.6	68.1	65.7	63.7	64.1	64.0	58.1	66.0	66.9	66.0	117.7
HACT11.51 GM/M3	2000	70.9	69.4	70.2	71.3	69.3	68.0	67.2	65.2	64.0	64.4	67.2	68.4	67.4	68.2	68.2	118.0
(.01151 KG/M3)	2500	72.8	71.1	70.9	71.2	70.0	68.0	66.1	64.1	63.9	63.9	65.2	67.0	67.1	66.9	67.9	117.7
NFA 7003. RPM	3150	72.1	69.3	70.9	70.2	68.6	65.0	67.2	65.3	64.0	63.2	62.3	68.3	65.4	65.1	66.0	117.1
( 733. RAD/SEC)	4000	75.8	73.8	72.6	72.1	70.0	69.9	69.4	66.6	66.7	64.0	66.1	68.2	68.1	68.1	67.9	119.5
NFK 6956. RPM	5000	73.1	72.2	71.9	71.2	75.4	73.1	76.3	71.1	71.9	71.2	71.4	74.3	71.2	72.3	70.2	123.8
( 728. RAD/SEC)	6300	72.3	71.5	71.3	68.3	68.5	67.2	67.5	65.2	64.4	65.2	65.5	66.4	65.6	64.3	65.4	118.0
NFD10628. RPM	8000	70.2	68.5	67.0	66.5	66.5	65.4	65.7	63.3	63.0	61.6	63.2	64.3	61.6	62.5	63.1	116.2
(1113. RAD/SEC)	10000	69.0	68.3	66.0	64.7	65.6	64.3	65.4	64.3	63.3	64.3	63.5	64.6	64.2	63.2	62.3	117.1
NO. OF BLADES 44	12500	65.9	64.3	63.9	61.2	63.0	63.2	63.4	62.1	63.2	67.1	62.0	62.2	62.3	60.3	61.0	117.2
	16000	64.6	64.0	63.6	61.9	62.9	63.8	66.0	65.6	64.7	73.0	65.1	66.0	63.9	63.3	63.6	122.5
	20000	64.3	64.6	63.7	61.9	65.8	65.6	69.7	68.5	66.6	74.8	65.9	68.8	66.8	62.6	65.4	127.1
OVERALL MEASURED		87.9	87.2	85.0	86.2	86.3	85.3	87.2	84.9	85.0	67.3	84.2	85.2	84.1	84.2	85.1	
OVERALL CALCULATED		85.5	84.6	84.9	84.3	84.4	82.5	84.0	80.7	79.6	82.5	79.8	81.3	80.4	80.4	80.0	133.6
PND8		98.4	96.9	96.6	96.2	96.8	94.8	96.8	92.8	92.5	92.2	92.5	94.8	93.0	93.5	92.5	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)			
	50	71.5	71.9	69.9	71.1	71.0	69.6	73.1	69.0	66.6	69.9	66.9	66.8	67.0	67.9	67.4	119.0
	63	69.8	65.0	74.8	71.0	76.2	73.0	74.0	61.8	66.0	77.2	66.1	64.1	63.4	66.0	63.9	121.2
RADIAL 100, FT.	80	63.4	65.6	64.0	63.9	62.9	59.3	70.6	66.7	65.6	63.9	61.6	61.9	64.6	64.9	61.5	114.4
(30. M)	100	67.8	64.9	64.1	65.2	67.1	65.7	69.9	62.9	66.0	64.3	65.9	64.4	69.0	64.1		115.9
VEHICLE ATT	125	66.9	65.4	63.2	65.2	64.2	63.5	69.2	60.0	64.4	64.4	62.2	61.2	63.2	62.4	64.0	116.9
CONFIG APP	160	62.1	61.6	63.7	62.2	63.2	59.9	68.9	60.9	60.0	61.2	59.1	60.9	60.2	61.8	59.9	112.3
LOC PTO	200	69.6	69.1	68.9	67.2	68.1	65.8	69.0	64.0	62.5	62.0	60.3	61.0	60.3	63.4	61.2	114.6
DATE 7/12/74	250	75.9	75.0	74.7	74.3	73.0	72.0	72.0	69.7	67.9	65.1	64.0	64.2	63.0	65.0	65.2	119.5
HUM 288	310	75.9	74.1	76.1	78.3	78.0	77.0	76.4	75.0	75.1	75.1	70.1	66.3	70.2	66.3	69.0	124.4
TALT	400	76.7	78.2	79.1	80.0	80.0	78.8	77.1	74.8	74.7	73.2	70.8	69.8	69.1	64.8	65.0	125.3
BAR 27.1 HR	500	71.5	69.6	70.8	71.7	70.9	70.8	69.0	68.5	66.8	65.2	68.0	70.9	67.8	65.9	66.6	118.8
(96142. N/M2)	630	82.2	81.3	80.2	77.4	76.2	75.2	74.3	74.1	71.1	69.3	72.4	71.4	70.1	69.2	69.1	123.9
IA40 66, DEG F	800	76.9	75.9	76.1	76.3	74.2	73.0	74.2	71.0	69.0	66.1	70.0	67.2	65.2	66.2	65.1	121.5
(272, DEG K)	1000	77.1	76.2	77.5	76.6	74.1	75.3	75.1	71.9	70.9	68.5	66.4	70.3	67.2	66.1	66.1	122.5
INLET 60, DEG F	1250	79.2	77.1	78.2	77.4	76.3	77.2	76.4	73.9	72.0	70.3	68.2	70.2	69.1	68.4	68.9	123.9
(239, DEG K)	1600	77.8	77.1	76.1	76.4	76.2	74.5	74.9	71.6	70.0	69.2	68.0	69.2	67.3	67.0	66.7	122.6
MACT 11.51 GM/H3	2000	79.0	77.3	77.0	77.3	75.3	76.0	76.3	73.1	71.2	68.6	65.2	69.5	68.6	69.3	68.2	123.6
(.01151 KG/H3)	2500	79.7	79.3	77.9	77.4	76.0	76.9	76.1	72.5	70.7	69.3	66.1	68.2	68.2	67.1	68.0	123.8
NFA 6704, RPM	3150	82.8	80.2	81.1	78.7	75.7	77.1	77.4	75.1	71.2	68.2	66.1	69.4	66.5	66.2	66.0	125.3
(702, RAD/SEC)	4000	85.9	85.1	83.0	82.1	79.0	77.1	78.0	75.7	72.6	68.0	66.1	69.1	69.8	68.2	67.8	127.0
NFK 6659, RPM	5000	84.9	83.4	81.1	79.3	82.2	79.2	78.7	75.0	75.9	72.1	71.2	72.3	70.4	70.3	71.1	127.5
(677, RAD/SEC)	6300	84.3	82.5	81.6	78.4	77.6	75.4	75.5	73.1	70.1	67.7	66.4	65.6	66.4	64.3	65.4	125.3
NF 10628, RPM	8000	82.2	81.6	79.2	77.3	77.6	75.4	75.4	71.2	70.0	66.3	64.6	65.3	62.5	63.6	63.1	125.0
(1113, RAD/SEC)	10000	81.0	80.2	76.9	75.2	76.1	72.9	75.4	71.0	67.3	66.5	64.6	64.5	64.2	62.2	61.3	124.2
NO. OF BLADES 44	12500	70.7	76.0	73.8	71.1	72.2	70.1	70.2	67.0	64.9	67.1	63.1	62.2	61.1	61.0	60.6	122.2
	16000	73.6	72.3	69.9	67.7	68.6	66.9	69.2	64.8	61.8	70.9	64.9	65.0	63.0	65.7	64.6	123.1
	20000	68.6	65.8	65.2	63.9	66.6	65.4	69.0	63.6	61.5	75.7	63.9	66.8	63.9	65.7	66.0	127.0
OVERALL MEASURED		94.0	93.2	91.1	91.5	91.2	89.1	89.9	88.0	87.0	87.3	85.0	86.3	84.2	84.2	85.9	
OVERALL CALCULATED		93.6	92.5	91.2	90.4	90.1	88.7	88.8	85.9	84.5	84.6	81.7	82.1	81.1	80.8	80.6	137.7
PA.01		107.4	106.4	105.2	104.2	103.5	101.6	101.2	98.9	97.6	95.1	93.9	94.7	93.5	93.0	93.2	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PNL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )
50	72.5	72.9	70.7	72.0	72.0	70.6	73.0	69.5	69.8	70.0	67.9	67.9	67.8	69.2	67.8	119.6
65	69.8	66.0	75.0	71.0	76.0	73.0	74.0	62.0	66.8	77.2	66.4	64.5	63.3	66.4	64.9	121.2
RADIAL 100. FT.	80	64.4	66.8	65.0	65.7	63.0	60.7	71.8	63.5	64.5	63.6	62.0	62.6	64.8	64.7	114.9
( 30. M)	100	67.6	66.1	64.7	65.0	68.1	66.7	71.1	62.9	63.6	63.9	64.0	66.0	64.9	69.0	116.1
VEHICLE ATT	125	69.1	68.3	65.0	65.6	67.2	66.0	70.4	61.2	64.2	65.5	65.1	63.3	65.4	66.2	115.6
CONFIG APP	160	62.8	62.1	64.9	62.9	62.2	61.7	69.2	61.9	59.7	60.2	61.2	62.2	62.1	62.9	112.9
LOC PTD	200	69.9	70.0	69.0	67.2	68.0	69.4	63.9	62.6	63.0	61.3	61.3	61.0	64.3	61.6	114.9
DATE 7/12/74	250	75.8	76.1	74.9	74.2	73.2	72.0	72.2	69.8	67.8	65.2	64.2	64.5	62.3	65.3	119.7
NUM 289	315	76.8	76.0	78.1	78.2	78.4	77.0	76.9	75.8	77.2	75.1	69.2	72.2	71.3	72.4	125.3
TAPE A959	400	72.3	72.1	73.9	72.8	72.9	71.8	71.1	69.5	69.7	68.9	64.9	67.2	67.1	65.9	119.7
BAR 29.1 HG	500	72.5	72.0	72.8	71.8	70.8	68.6	68.2	66.5	64.6	64.1	66.1	68.1	65.8	65.2	117.6
( 98182. N/M2)	630	88.0	86.1	84.1	79.5	78.6	75.2	75.1	74.1	73.9	70.4	71.2	71.4	70.4	68.2	129.9
TAMP 66. DEG F	800	79.8	79.1	78.1	77.1	75.1	73.7	74.1	71.0	68.8	69.2	68.1	67.2	67.1	66.3	122.2
( 292. DEG K)	1000	79.3	79.2	80.4	78.5	76.4	77.4	77.5	73.8	72.2	69.4	70.2	69.3	68.6	67.2	124.3
TWST 60. DEG F	1250	80.9	79.0	78.3	78.4	77.5	76.1	75.2	72.7	69.9	69.2	69.1	70.1	69.1	68.3	123.8
( 289. DEG K)	1600	74.1	78.0	78.9	77.4	76.2	74.8	75.0	70.7	69.0	67.5	66.2	66.4	67.3	67.2	122.8
HACT 11.51 CM/MS	2000	79.5	79.6	79.1	79.4	76.4	74.1	75.1	72.1	69.3	67.7	67.4	68.5	67.5	68.6	126.6
( 31151 KG/M3)	2500	81.2	80.9	79.8	78.2	77.3	75.7	75.2	71.6	68.7	67.1	66.1	66.9	68.1	67.1	123.6
NFA 6652. RPM	3150	84.0	82.3	82.1	80.7	79.5	77.1	77.4	75.0	71.1	68.2	66.1	66.3	67.3	65.2	126.0
( 696. RAD/SEC)	4000	87.9	87.1	84.9	84.1	80.3	78.8	79.1	75.8	72.8	68.2	68.0	69.9	70.0	68.4	128.6
NFA 6608. RPM	5000	86.2	86.4	83.5	82.3	84.2	80.4	80.3	77.1	78.1	73.1	73.1	73.4	73.5	71.2	129.3
( 692. RAD/SEC)	6300	86.2	85.5	83.2	80.4	80.4	77.2	76.5	73.2	72.1	68.6	67.2	66.7	66.6	64.6	127.2
NFA 10626. RPM	7900	83.2	84.1	81.1	79.3	79.3	77.4	77.5	72.1	71.2	66.8	65.2	65.6	64.3	64.2	126.9
( 1113. RAD/SEC)	10000	83.1	83.3	80.0	77.5	78.3	75.0	74.4	72.1	69.2	67.7	65.4	64.2	64.2	63.5	126.2
NO. OF BLADES 44	12500	79.2	79.1	75.8	73.2	73.9	72.0	71.1	68.7	67.9	68.1	63.4	62.4	62.2	61.5	123.9
	16000	75.8	75.8	71.5	69.1	70.0	69.5	69.8	66.8	66.8	73.0	64.5	64.2	64.2	63.1	124.6
	20000	70.4	70.9	68.0	64.9	67.6	66.6	69.6	66.5	66.6	76.0	66.7	67.8	66.7	64.7	127.4
OVERALL MEASURED	96.1	95.3	92.7	92.2	92.2	89.8	91.3	88.0	88.2	87.3	86.2	86.3	85.1	85.5	87.0	
OVERALL CALCULATED	95.6	95.0	93.3	91.8	91.2	89.0	89.2	86.0	85.1	84.6	81.6	82.2	81.8	81.4	80.9	138.7
PNDU	109.2	106.5	106.2	105.8	105.0	102.2	102.4	99.0	96.5	95.3	94.5	95.1	94.8	93.6	93.5	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PNL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
	59	75.7	75.8	74.4	75.11	74.5	73.7	73.7	73.5	74.0	72.0	71.8	72.8	72.0	72.8	70.8	78.8	123.5
	63	74.8	72.9	78.0	74.0	73.2	76.0	73.1	72.0	70.0	72.2	72.3	72.4	70.1	70.2	69.3	77.1	123.4
RADIAL 100. FT.	80	70.6	70.5	70.5	71.0	69.5	69.4	70.7	69.6	68.7	68.8	69.9	69.4	66.8	68.7	69.6	74.4	119.5
( 30. M)	100	70.8	69.6	69.9	69.1	69.8	67.7	67.7	68.0	67.9	66.3	65.9	66.6	67.2	68.1	70.0	72.7	118.2
VEHICLE ATT	125	72.9	71.2	69.0	70.4	69.2	68.3	69.0	70.1	67.4	66.3	66.4	71.1	70.2	67.3	72.2	72.1	119.3
CONFIG T/O	160	67.7	66.0	67.0	67.0	65.0	65.0	66.0	65.8	63.9	62.4	63.1	65.0	65.1	64.3	63.2	68.7	115.1
LOC PTD	200	73.8	73.8	71.0	70.5	69.8	68.9	67.0	66.1	64.0	64.1	63.0	63.1	63.3	65.2	63.3	67.1	116.8
DATE 7/16/74	250	80.9	79.0	78.0	78.1	77.0	74.9	73.9	71.8	70.2	68.2	66.2	67.9	65.9	69.0	68.0	69.8	122.9
RUN 294	315	80.9	80.0	80.0	80.4	80.1	76.9	74.1	74.0	73.0	70.3	68.0	69.0	69.2	68.3	68.0	68.1	124.8
TAPP S3133	400	77.5	76.7	77.7	77.0	76.8	75.9	73.7	72.7	70.9	70.2	68.9	68.9	71.2	68.9	68.1	67.8	123.1
SAP 29.0 HG	500	76.5	76.5	76.4	75.1	73.7	72.5	70.7	69.7	68.8	68.9	67.0	67.9	67.9	70.0	67.9	66.7	121.0
(97827. N/M2)	630	83.8	84.1	83.2	81.5	80.2	75.9	76.3	74.2	72.2	73.5	70.4	75.0	73.3	71.4	71.4	71.1	126.6
IAMP 75. DEG F	800	79.6	82.0	83.0	81.2	78.3	78.8	77.5	74.5	73.2	73.0	72.0	74.8	71.3	70.2	70.2	66.8	126.4
(297. DEG K)	1000	81.9	82.2	83.0	80.3	79.4	79.1	78.4	74.1	73.2	72.4	71.2	74.1	70.3	71.1	70.2	67.4	126.6
TWFT 64. DEG F	1250	85.1	86.2	86.2	83.5	84.2	81.3	82.1	77.0	80.4	75.2	74.2	77.1	74.1	73.4	72.5	70.0	130.7
(291. DEG K)	1400	87.9	83.1	86.9	82.5	83.2	82.0	81.1	77.0	75.2	73.2	72.3	74.0	72.4	74.0	73.3	70.0	129.4
HACT 11.57 CM/H3	2000	84.1	85.1	84.1	83.4	81.3	80.3	82.4	79.1	74.2	72.4	71.4	73.3	72.5	73.5	71.2	68.3	129.1
(.01157 KG/H3)	2500	82.0	88.8	86.0	87.4	85.9	83.9	83.2	78.1	76.2	73.3	71.1	72.6	73.7	72.1	72.0	67.9	131.5
NFA 6404. RPM	3150	91.0	91.4	91.0	87.3	86.1	84.9	83.2	83.3	79.7	77.4	74.2	73.2	72.2	71.2	69.2	67.4	133.5
( 670. RAD/SEC)	4000	96.0	95.1	95.1	91.2	89.1	85.1	84.0	81.0	79.2	75.1	74.2	74.9	73.3	71.0	70.2	71.1	135.8
NFK 6307. RPM	5000	93.3	93.3	94.0	90.6	93.3	89.0	88.5	84.3	82.6	79.7	77.2	76.1	76.6	73.3	72.2	69.4	138.0
( 660. RAD/SEC)	6300	93.3	93.3	91.3	89.8	90.5	87.3	86.5	82.3	81.5	76.7	74.0	74.1	72.5	71.7	69.4	69.6	136.4
NFM 10628. RPM	8500	93.2	93.3	91.4	89.5	90.2	88.1	86.3	84.4	80.6	77.9	75.5	74.4	72.6	70.3	68.4	68.4	137.1
(1113. RAD/SEC)	10000	92.4	92.3	90.1	89.0	90.4	88.1	85.4	82.3	80.9	76.9	73.6	72.4	70.6	69.6	67.4	68.4	137.4
NO. OF BLADES 44	12500	89.3	88.1	86.0	85.2	87.3	85.3	83.4	81.6	78.4	75.3	71.5	70.0	67.5	66.4	65.9	66.4	135.0
	16000	85.0	84.2	83.3	82.6	83.4	81.0	81.2	79.4	74.4	72.4	68.2	67.1	65.5	64.6	64.5	66.1	134.3
	20000	80.4	80.0	77.1	77.4	73.2	76.2	75.4	78.5	69.4	69.5	64.3	67.2	64.5	65.4	64.2	66.2	132.7
OVERALL MEASURE:	102.3	101.9	100.9	99.1	99.0	95.7	96.2	93.7	91.2	89.6	88.9	89.1	87.1	87.1	88.1	96.2		
OVERALL CALCULATED:	102.4	102.1	101.3	99.2	99.0	95.8	95.6	93.0	90.9	88.1	86.1	85.9	85.5	84.8	83.8	85.4		
P-0-	116.2	115.7	114.7	112.6	113.0	109.7	108.9	105.7	103.8	101.1	99.1	99.2	98.6	97.8	95.6	95.6		145.3

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PML	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT. (30. M)	81	75.5	75.8	73.7	72.0	74.8	73.5	72.9	72.7	73.0	72.1	71.8	71.9	71.4	73.0	71.0	78.8	123.2
VEHICLE ATT	129	74.8	72.9	77.0	72.9	76.3	75.0	72.2	72.0	70.0	73.2	72.1	70.8	69.5	70.0	68.2	78.0	123.0
CONFIG 170	169	71.9	69.8	68.9	68.1	69.7	67.9	67.8	66.9	66.9	66.3	66.2	67.8	69.3	68.3	70.9	72.7	118.3
LOC PTO	208	72.9	71.1	67.2	69.4	69.1	68.4	69.1	68.9	67.2	66.5	64.9	70.1	69.6	67.5	71.4	71.0	118.7
DATE 7/16/74	258	67.7	65.7	67.0	66.1	64.8	64.9	65.9	65.6	63.2	62.1	63.2	64.9	66.1	64.3	63.2	69.2	119.1
RUN 295	318	74.8	73.8	72.7	70.2	69.8	68.7	67.9	65.9	65.0	63.4	62.4	63.1	64.2	65.3	63.0	67.0	116.9
TAPE S3134	406	80.9	79.0	79.1	77.3	77.0	75.0	75.1	71.7	71.2	68.1	66.8	68.0	67.4	68.3	68.2	70.0	123.0
BAR 29.0 HG	500	77.6	76.9	78.0	77.1	77.2	74.9	72.7	72.8	71.1	70.0	69.1	70.1	71.3	69.9	68.2	67.8	123.1
(97827. N/M2)	630	76.5	76.7	75.7	74.9	73.8	72.9	78.9	69.6	68.8	68.0	66.7	67.6	68.0	69.8	68.0	67.6	120.9
TAMP 75. DEG F	800	84.9	84.2	82.4	81.4	80.6	78.2	76.3	73.9	71.9	73.5	74.2	76.1	72.6	71.1	71.1	71.3	126.5
(297. DEG K)	1000	79.7	82.1	83.7	81.1	76.9	78.0	78.2	75.0	75.2	74.1	71.9	74.9	72.2	70.9	70.2	67.0	126.9
TWFT 64. DEG F	1250	82.1	82.2	83.1	80.5	80.5	79.1	79.2	75.2	74.3	73.2	71.1	74.1	71.4	71.4	70.4	68.2	127.1
(291. DEG K)	1600	85.1	86.0	86.1	84.4	88.1	83.2	82.1	78.4	80.9	75.5	75.0	77.0	75.3	73.2	73.4	70.2	131.6
MACT 11.57 G/M3	2000	88.3	83.1	87.2	82.3	84.2	83.9	81.1	77.3	76.1	73.2	72.5	74.1	71.6	74.2	70.5	69.5	129.8
(.01157 KG/M3)	2500	84.2	85.2	84.3	82.5	81.3	82.1	83.4	80.1	74.4	71.4	71.4	74.0	72.4	73.5	71.2	68.2	129.6
NFA 7550. RPM	3150	89.7	89.1	86.9	87.2	85.0	84.9	78.9	77.8	76.1	73.0	72.2	73.0	73.0	72.1	70.9	67.8	131.4
(790. RAD/SEC)	4000	90.3	91.2	92.1	91.5	86.6	85.0	82.4	83.1	79.3	76.7	74.4	73.9	72.6	71.4	69.3	68.1	133.8
NFK 7436. RPM	5000	95.9	95.1	93.1	91.4	88.2	84.9	85.2	82.1	79.4	75.4	74.2	74.0	74.2	71.3	70.3	71.0	135.8
(779. RAD/SEC)	6300	94.1	93.4	94.3	91.6	94.1	89.3	87.3	84.1	82.5	78.8	78.4	77.1	75.7	73.2	72.3	69.3	138.2
NFD 10628. RPM	8000	94.1	93.5	91.2	90.4	91.3	87.9	85.4	82.3	80.8	76.7	74.5	74.1	72.8	71.6	69.4	69.6	136.5
(1113. RAD/SEC)	10000	93.4	92.4	92.1	89.5	90.3	87.4	87.4	84.2	80.8	77.9	75.3	74.1	72.6	70.3	69.4	67.5	137.2
NO. OF BLADES 44	12500	93.2	92.5	90.2	89.5	90.3	88.2	86.3	83.7	80.9	76.9	73.7	72.1	71.9	70.4	67.6	68.4	137.6
	16000	89.3	89.2	87.3	86.5	87.4	86.1	83.5	81.2	78.3	76.4	71.5	70.0	71.5	66.3	65.3	66.2	136.1
	20000	85.2	85.1	84.0	82.4	83.0	81.3	80.4	80.2	75.3	72.6	68.3	68.3	67.8	64.6	63.4	63.3	134.4
OVERALL MEASURED	102.0	101.8	100.8	99.1	99.8	96.7	95.9	94.1	91.4	90.4	87.6	88.7	87.6	87.3	88.0	88.0	98.1	146.5
OVERALL CALCULATED	102.8	102.2	101.4	99.4	100.0	97.0	95.7	93.2	90.9	88.9	86.3	87.0	85.9	84.9	83.6	85.2		
PMD	116.4	115.7	114.7	112.7	113.5	109.9	108.4	105.7	103.8	100.7	99.7	99.7	98.5	97.1	99.9			





MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
59	80.7	80.8	78.9	79.7	78.9	78.6	78.7	78.7	79.0	77.3	76.0	75.7	76.8	76.9	75.8	82.0	128.0
65	76.8	76.1	77.5	75.1	79.9	77.1	73.3	73.0	73.1	75.4	74.1	72.9	74.3	74.1	74.0	80.3	129.4
RADIAL 100. FT. ( 30. MI)	84	74.8	74.6	73.9	73.6	73.8	72.9	71.5	70.7	72.8	73.0	70.9	68.4	68.8	71.6	69.9	76.7
VEHICLE ATT	120	74.6	73.7	74.7	73.1	72.0	69.8	69.8	68.9	68.0	68.5	70.3	71.7	69.7	69.9	69.0	74.9
CONFIG T/D	160	72.2	71.9	70.9	71.4	70.2	68.2	69.0	69.2	68.0	68.3	67.4	70.1	69.4	69.2	70.5	73.0
LOC PTD	200	77.8	76.9	71.7	67.1	74.9	76.8	76.8	69.9	70.9	74.2	79.9	79.0	75.9	76.9	70.1	75.9
DATE 7/16/74	250	71.8	71.2	71.1	70.2	70.0	70.0	69.1	68.0	66.1	67.1	67.3	68.6	68.1	70.0	67.2	69.9
RUN 297	310	76.8	75.8	77.2	76.3	75.8	74.9	73.9	72.2	70.7	69.2	68.2	70.0	70.3	72.1	71.1	72.2
TAPE 53134	400	79.9	78.8	81.0	84.3	84.0	83.7	79.8	82.0	83.2	79.1	71.0	78.0	80.2	84.3	83.2	79.9
BAR 29.0 HG	500	74.6	75.0	76.9	77.9	75.7	76.7	76.8	75.7	72.7	75.0	70.0	73.9	76.0	75.9	73.1	74.0
(97827, N/M2)	630	76.8	78.8	80.0	88.2	82.0	88.6	90.9	89.0	81.9	88.2	76.0	85.6	85.9	88.1	83.8	87.7
TAHR 75. DEG F	800	91.1	81.2	85.1	87.7	92.3	86.2	96.3	95.2	90.2	95.6	92.3	89.3	90.6	84.5	86.5	86.4
(297, DEG K)	1000	87.9	81.8	89.1	88.3	86.9	94.0	93.7	90.2	92.3	87.4	92.0	92.0	83.3	86.3	84.5	87.1
TWFT 54. DEG F	1250	83.9	81.3	87.1	86.5	90.2	87.3	90.3	90.2	88.2	85.6	85.3	89.0	79.7	80.3	77.6	78.3
(291, DEG K)	1600	89.1	86.1	87.1	92.5	90.1	88.8	89.4	89.3	84.4	86.6	82.0	84.2	83.5	81.5	80.6	77.2
HATT 11.72 GM/MS	2000	89.2	89.2	89.1	91.6	92.0	89.0	93.1	91.1	89.1	88.2	84.5	86.8	85.2	83.9	79.7	76.9
(.01172 KG/MS)	2500	96.9	96.3	90.2	88.5	86.1	87.1	85.3	84.4	83.3	81.4	80.8	82.1	81.4	79.3	78.4	74.0
NFA 9722, RPM	3150	90.9	91.8	91.2	89.3	88.0	88.0	86.7	83.7	83.1	81.1	79.1	80.1	79.1	79.0	77.0	74.7
(1018, RAD/SEC)	4000	89.0	89.4	91.1	88.7	87.1	87.2	80.1	85.5	81.7	80.7	78.3	80.4	77.4	76.5	75.5	74.0
NFK 9580, RPM	5000	93.0	92.2	90.2	89.7	86.1	89.0	83.8	83.9	82.2	80.2	78.2	78.9	77.2	75.0	74.2	73.8
(1003, RAD/SEC)	6300	89.5	89.2	89.7	87.8	89.5	87.4	89.3	83.5	83.7	81.5	79.4	79.1	78.5	75.5	75.0	70.0
NF10628, RPM	8000	89.3	88.6	86.4	84.8	86.2	82.5	82.4	79.5	80.6	77.6	76.9	77.3	74.6	74.3	73.7	70.3
(1113, RAD/SEC)	10000	87.3	86.4	85.0	83.4	83.1	81.3	82.4	80.3	77.4	77.6	76.4	76.1	74.4	72.4	71.6	68.3
NO. OF BLADES 4	12000	85.0	84.4	82.4	80.7	81.4	80.1	78.6	76.5	75.4	74.7	73.3	71.4	70.5	69.6	69.6	67.1
	14000	86.9	80.1	79.1	76.4	76.8	76.2	76.4	75.3	71.2	71.2	70.2	70.0	68.6	66.2	66.5	62.0
	20000	77.9	77.1	75.1	73.7	74.0	72.1	74.5	76.3	69.5	69.5	68.4	68.9	68.3	64.2	65.4	60.1
OVERALL MEASURED		73.9	72.2	71.0	69.3	71.9	70.9	77.0	80.1	68.4	69.2	66.4	67.9	67.2	66.2	64.2	66.9
OVERALL CALCULATED		102.0	100.8	100.1	100.7	100.1	99.7	102.2	99.8	98.0	99.1	97.3	97.8	96.1	95.0	94.0	98.1
PWDL		102.1	101.1	100.1	100.3	100.1	99.7	101.5	100.2	97.9	98.7	96.9	97.5	95.9	94.3	92.7	93.8
		115.4	114.6	113.9	112.9	112.1	111.2	111.8	110.2	108.3	108.3	105.7	107.5	105.0	104.1	102.2	102.1

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	81.0	80.9	78.6	80.0	79.7	78.7	78.8	78.7	78.8	78.0	76.0	76.6	77.0	78.0	76.0	82.0	128.2	
63	77.0	76.8	78.8	76.3	80.4	75.8	72.9	73.0	73.0	74.4	74.3	71.9	71.6	74.9	74.0	79.9	129.2	
RADIAL 160. FT.	83	73.6	74.5	72.6	72.7	73.7	71.4	70.7	69.7	71.9	70.7	69.4	68.9	71.7	69.6	75.6	121.4	
( 30. M)	100	75.5	74.6	73.8	72.1	70.7	70.6	69.6	67.9	67.8	69.2	70.9	71.6	69.1	69.9	69.3	74.6	120.5
VEHICLE ATT	125	72.2	70.9	69.9	70.2	70.1	68.2	69.2	69.0	67.3	67.6	67.5	69.1	69.3	69.4	71.5	73.1	119.3
CONFIG T/O	150	71.8	80.9	75.9	71.2	78.8	76.8	82.1	80.0	77.9	73.2	75.9	73.8	72.1	71.2	71.1	75.9	127.0
LOC PTO	200	69.7	71.9	70.0	70.1	71.2	69.9	70.9	70.0	68.2	67.4	68.1	68.1	68.4	70.0	68.5	70.0	119.4
DATE 7/16/74	250	76.0	75.8	74.9	76.5	75.0	74.9	74.1	72.6	72.0	69.2	69.0	71.1	71.1	72.9	71.1	72.0	122.9
NUM 299	315	83.8	82.9	83.0	85.2	85.8	88.0	87.1	87.8	88.1	81.1	78.1	84.0	85.1	82.5	80.2	80.2	135.6
TAPE S3134	400	74.8	75.7	77.7	78.0	77.8	78.0	76.8	75.9	76.9	72.2	73.9	73.7	76.2	72.9	71.7	71.7	126.1
BA 29.0 KG	500	77.7	80.0	85.8	86.2	87.7	90.9	84.9	83.9	86.9	79.0	78.0	83.6	84.2	79.7	77.0	74.8	139.0
(97827. N/M2)	630	85.2	83.3	88.2	88.6	89.3	92.5	88.2	91.3	83.1	87.4	88.4	83.1	85.4	85.1	84.4	83.2	138.2
TAHR 75. DEG F	800	82.1	83.9	86.7	83.4	85.1	88.8	93.2	84.1	84.2	82.4	85.3	82.9	80.4	82.2	82.2	81.2	139.5
(297. DEG K)	1000	80.0	84.4	83.2	84.6	83.3	83.1	88.3	84.1	81.2	83.4	85.3	79.1	81.4	78.6	79.3	75.2	133.3
LEFT 64. DEG F	1250	85.2	86.0	86.8	86.2	86.2	86.2	85.1	82.4	78.5	80.5	77.1	79.0	80.5	80.2	78.2	77.0	133.1
(291. DEG K)	1500	88.3	89.2	89.8	89.5	86.2	85.1	84.1	83.0	80.5	79.5	79.5	81.3	78.6	78.5	76.5	73.0	134.0
MACT 11.72 G/M3	2000	91.0	93.0	87.0	87.5	85.4	85.1	85.5	82.1	81.0	80.5	78.4	82.1	79.6	79.6	76.5	74.3	133.7
(.01172 KG/M3)	2500	89.7	89.7	88.0	88.3	87.9	87.0	85.8	81.0	81.0	78.5	76.9	79.1	78.1	78.3	77.1	73.7	133.9
NFA 9846. RPM	3150	87.2	88.1	88.0	85.9	85.1	84.1	82.2	82.1	79.5	78.5	75.9	79.1	75.3	75.4	74.1	72.1	132.4
(1031. RAD/SEC)	4000	88.9	88.8	86.0	86.2	83.1	81.1	81.0	80.9	79.5	76.0	76.3	77.2	75.1	73.9	74.2	73.0	131.6
NFM 9782. RPM	5000	86.1	86.3	87.1	84.5	86.4	83.4	82.4	80.1	79.3	78.0	77.9	78.4	76.3	75.6	75.2	69.0	132.5
(1016. RAD/SEC)	6300	85.1	85.3	82.4	81.7	82.5	80.3	79.4	77.5	77.5	74.8	75.3	75.2	74.4	74.3	73.6	70.3	129.9
NFM 10628. RPM	8000	84.3	83.4	82.3	80.5	80.3	78.5	79.3	79.2	75.6	75.7	76.6	75.4	74.4	72.5	73.2	69.3	129.8
(1113. RAD/SEC)	10000	81.6	81.4	78.2	77.5	78.4	76.3	75.2	74.1	73.3	71.5	71.4	72.1	70.8	69.5	69.5	66.1	127.5
NO. OF BLADES 44	12500	76.1	77.1	75.1	73.2	73.2	73.2	73.0	73.0	69.2	68.5	69.7	70.2	68.6	66.4	66.2	65.0	125.5
	16000	73.9	73.0	71.1	69.6	71.1	69.1	70.6	75.0	66.2	68.5	67.3	68.8	67.5	64.5	65.0	65.9	125.8
	20000	69.0	68.6	66.8	66.2	67.2	65.9	65.9	77.2	55.5	67.5	65.1	66.9	66.5	65.4	65.1	67.1	128.0
OVERALL MEASURED		98.7	98.8	97.9	98.1	97.8	98.0	97.2	96.7	95.3	94.1	94.2	93.8	94.1	93.1	93.3	97.6	
OVERALL CALCULATED		98.4	98.6	98.4	98.0	97.8	98.5	97.3	96.3	94.5	93.1	92.9	92.3	92.9	92.3	91.0	90.5	
PWB:		111.6	111.8	111.2	110.6	110.3	109.7	108.0	106.8	105.2	103.6	102.9	104.1	102.9	102.7	101.5	99.5	146.0



MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
VEHICLE ATT	50	58.6	60.8	75.8	80.0	78.6	78.0	77.0	78.3	77.	75.7	75.8	75.9	76.8	74.7	82.0	127.6	
LOC PTO	60	77.0	75.1	77.7	76.3	80.1	77.8	73.2	71.3	72.2	75.1	74.3	72.1	73.2	73.3	73.0	80.1	129.1
DATE 7/16/74	80	74.8	75.3	73.7	73.9	73.8	72.6	72.5	70.5	73.2	72.7	71.6	68.8	69.0	70.9	69.6	76.5	120.9
NO. OF BLADES 44	100	75.9	74.7	74.6	72.9	71.9	70.6	70.7	68.9	68.0	68.0	73.2	71.7	70.0	70.9	69.9	74.7	120.9
OVERALL MEASURED	120	74.0	72.0	71.1	71.5	70.9	69.1	69.0	68.5	68.7	67.7	68.2	70.4	69.5	69.3	71.3	73.2	119.8
OVERALL CALCULATED	160	79.7	74.7	68.6	69.2	73.7	76.7	72.8	74.9	77.1	70.2	77.1	76.9	79.3	78.0	72.9	74.6	125.8
PERIOD	200	72.2	71.1	70.7	70.3	71.2	70.0	69.0	68.1	67.5	66.2	67.0	67.9	68.4	69.2	67.2	69.8	118.7
REVOLUTIONS PER MINUTE	250	78.0	76.8	77.7	76.1	76.8	75.8	75.1	72.7	71.5	70.1	69.4	71.0	70.3	72.2	71.3	72.0	123.4
TYPE OF TEST	315	81.0	77.1	79.9	83.0	89.2	86.9	84.1	85.7	84.5	83.4	81.2	81.0	78.3	83.3	82.2	79.9	134.1
TEST FACILITY	400	75.7	76.9	86.6	85.1	92.7	93.6	87.1	90.9	84.4	85.2	83.0	80.8	79.2	83.0	81.3	83.7	138.1
TEST METHOD	500	81.7	87.0	91.9	85.1	92.7	93.6	87.1	90.9	84.4	85.2	83.0	80.8	79.2	83.0	81.3	83.7	138.1
TEST FACILITY	600	87.2	85.3	82.9	86.8	91.3	93.2	89.2	94.0	95.5	87.6	91.4	87.5	91.5	89.4	87.3	87.1	141.4
TEST FACILITY	800	88.0	91.9	93.7	83.4	94.1	97.0	93.0	95.0	93.2	95.4	91.2	87.9	91.1	93.0	77.3	83.0	143.6
TEST FACILITY	1000	90.2	86.2	86.9	88.4	89.9	89.5	92.4	91.3	90.6	86.6	85.3	84.9	86.6	83.2	81.2	78.1	138.7
TEST FACILITY	1250	88.1	90.1	91.1	93.5	90.3	90.4	91.1	88.0	85.3	83.6	83.2	84.1	82.5	82.2	80.9	77.0	138.1
TEST FACILITY	1500	93.1	93.9	94.8	95.3	92.0	91.0	93.4	89.9	87.5	86.4	81.2	86.2	81.4	83.5	80.2	74.2	140.1
TEST FACILITY	2000	96.6	96.0	96.2	92.9	88.4	91.1	90.4	87.1	84.6	81.4	81.3	80.9	81.4	79.3	78.3	75.2	138.6
TEST FACILITY	2500	94.2	95.0	94.6	91.3	90.1	89.1	87.1	85.8	84.1	83.4	81.3	81.6	80.7	79.4	78.3	76.8	137.5
TEST FACILITY	3150	92.2	92.3	93.0	91.4	91.1	89.1	87.5	86.1	84.1	80.5	79.1	78.9	78.5	75.0	73.9	74.1	136.2
TEST FACILITY	4000	95.1	93.0	90.7	90.4	88.2	88.2	85.9	85.1	84.1	80.5	79.1	78.9	78.5	75.0	73.9	74.1	136.2
TEST FACILITY	5000	92.5	92.3	92.2	91.4	92.2	89.5	85.7	86.3	85.6	82.7	80.4	80.3	79.5	77.4	76.6	71.1	138.0
TEST FACILITY	6300	92.5	91.6	89.2	87.9	88.6	85.4	84.4	82.3	82.5	78.9	78.5	77.1	77.7	75.4	74.4	72.4	135.2
TEST FACILITY	8000	90.4	89.2	88.1	85.7	85.1	83.3	84.3	82.5	79.8	78.6	78.7	77.4	76.7	72.5	72.5	69.7	134.1
TEST FACILITY	10000	88.4	87.5	85.0	82.3	83.4	82.1	80.5	78.3	77.7	75.7	74.3	73.0	71.5	70.4	69.6	67.1	132.1
TEST FACILITY	12500	84.3	83.0	81.2	78.5	80.2	78.9	78.2	76.2	74.2	72.6	71.4	71.2	69.3	66.2	66.3	65.5	130.1
TEST FACILITY	16000	80.2	80.2	77.9	76.3	77.0	75.2	75.1	77.0	74.2	69.5	68.4	69.1	67.5	65.7	65.9	66.3	129.7
TEST FACILITY	20000	75.9	75.1	73.9	72.2	73.2	71.9	75.2	76.2	69.0	68.4	66.1	67.1	64.4	65.4	64.2	67.9	130.7
TEST FACILITY	25000	104.3	103.1	104.0	102.4	102.8	102.7	102.2	100.8	100.0	98.3	97.0	96.1	96.4	96.3	93.3	99.0	130.1
TEST FACILITY	31500	104.2	103.5	103.7	102.6	102.6	102.8	101.2	101.2	100.1	98.4	96.7	95.2	96.5	96.5	92.3	92.6	129.7
TEST FACILITY	40000	117.4	116.5	116.5	114.8	114.6	113.6	112.5	111.1	109.7	108.3	106.1	106.1	105.7	105.8	102.6	101.7	150.5

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100. FT.	50	79.8	79.8	77.7	78.6	77.8	77.8	76.4	77.0	77.0	75.6	74.8	75.1	76.8	73.7	80.9	126.9	
( 30. M)	63	76.8	76.2	77.7	79.4	80.1	76.9	73.1	72.2	73.0	75.4	75.1	72.9	72.2	72.1	73.2	79.4	125.1
VEHICLE ATT	80	72.5	73.9	72.6	73.0	72.6	71.6	72.0	70.5	72.5	72.0	70.8	69.4	67.8	69.9	69.0	75.7	121.4
CONFIG T/O	100	74.0	73.6	75.6	75.1	74.7	73.6	70.8	69.8	71.0	68.1	72.0	72.9	71.4	70.1	70.9	73.8	122.1
LOC PTO	125	73.2	79.2	72.9	73.2	75.3	74.2	69.1	70.1	71.4	67.6	72.4	72.1	70.3	69.3	70.3	73.3	122.0
DATE 7/16/74	160	76.8	75.9	72.9	72.1	71.9	74.6	68.2	73.5	73.8	67.1	72.2	73.8	77.0	77.9	75.1	75.9	124.0
RUN 302	200	72.8	72.1	74.1	73.3	73.2	73.7	68.9	68.8	68.4	66.1	68.2	68.1	67.3	68.3	67.9	69.1	120.0
TAPE 53134	250	79.0	78.0	77.9	78.1	77.1	76.9	75.4	75.9	72.9	70.3	73.3	72.7	70.2	72.1	72.1	71.9	124.6
BAR 29.0 HG	315	79.8	79.0	79.7	82.2	87.3	88.2	88.5	87.0	83.0	85.4	83.2	84.0	81.3	83.2	80.9	79.0	135.1
(97895. N/M2)	400	75.9	79.9	81.9	78.9	77.0	77.6	75.2	75.6	74.0	72.2	73.9	73.7	76.0	77.1	72.2	72.7	126.0
TAMB 72. DEG F	500	79.7	79.6	87.6	82.7	81.6	83.0	83.0	84.7	82.8	79.1	80.9	76.7	85.0	85.9	76.0	80.8	133.1
(295. DEG K)	630	87.2	83.2	88.1	87.6	94.0	94.2	98.4	97.0	96.2	93.9	95.4	91.6	92.3	88.6	86.9	90.1	144.4
TWET 64. DEG F	800	89.8	89.9	92.9	98.0	95.1	96.9	103.2	96.1	97.2	92.3	88.3	96.8	96.2	91.3	85.3	89.0	146.8
(291. DEG K)	1000	89.0	86.3	90.0	92.3	91.3	95.4	95.3	94.2	91.2	88.3	90.9	88.3	85.5	86.4	82.9	80.1	141.6
HACT 12.82 GM/M3	1250	91.0	94.2	97.1	94.5	91.3	91.8	91.2	86.9	85.5	84.4	82.2	84.2	81.7	80.3	85.4	79.0	139.5
(.01282 KG/M3)	1600	94.8	95.1	97.9	95.2	92.2	91.0	92.2	87.8	87.4	84.6	85.3	82.1	82.5	80.2	80.2	76.1	140.1
NFA 9424. RPM	2000	98.3	94.1	96.0	92.3	89.1	88.1	90.3	87.1	84.9	81.4	82.6	82.0	81.5	80.4	81.4	76.0	138.1
(987. RAD/SEC)	2500	95.1	93.8	93.1	92.0	91.9	92.8	88.9	84.8	84.0	81.3	80.0	81.0	80.3	79.0	78.1	74.9	138.1
NFA 9424. RPM	3150	92.2	95.2	95.0	93.5	90.4	89.9	88.2	87.0	83.5	82.5	82.3	82.0	79.4	77.6	77.6	76.0	138.3
(987. RAD/SEC)	4000	96.8	95.1	93.0	93.2	92.1	89.9	88.3	85.8	84.0	82.3	82.4	80.9	78.2	75.9	82.3	74.7	138.4
NFA 9308. RPM	5000	94.0	94.3	95.9	93.3	95.0	93.2	90.2	87.5	87.5	84.7	84.9	82.1	80.7	77.3	79.7	74.1	140.5
(935. RAD/SEC)	6300	93.3	94.4	91.4	91.5	93.4	89.4	87.4	84.4	85.6	85.7	82.3	82.2	77.5	76.3	80.9	73.3	138.6
NFA 10628. RPM	8000	92.3	92.3	91.0	90.3	89.4	90.2	87.3	84.1	83.3	80.7	83.9	80.3	76.7	72.4	76.9	76.3	137.9
(1113. RAD/SEC)	10000	91.0	93.0	91.9	89.5	88.0	90.5	83.4	82.2	84.4	77.4	83.2	80.3	72.5	71.4	72.2	76.1	138.2
NO. OF BLADES 44	12500	85.6	88.0	87.7	86.0	87.0	84.7	81.1	79.7	79.2	75.2	61.4	79.2	70.9	66.9	75.8	78.8	136.0
	16000	82.5	86.6	86.5	84.2	85.7	84.4	76.6	78.5	77.9	71.8	79.0	78.9	66.9	65.7	77.2	72.9	136.5
	20000	77.3	86.5	82.2	83.5	84.1	84.1	73.4	77.5	76.6	67.4	79.4	77.4	62.5	64.4	70.6	76.3	137.9
OVERALL MEASURED		104.7	107.1	107.7	106.3	105.1	106.1	107.4	102.6	102.0	98.3	100.2	99.6	99.3	96.3	96.3	100.0	
OVERALL CALCULATED		105.1	104.6	105.6	104.7	103.8	104.0	100.1	102.3	101.7	98.5	99.1	99.6	98.9	96.0	94.0	94.8	152.8
PWDB		118.4	117.7	118.0	116.7	116.5	115.7	117.5	111.7	111.0	108.2	108.9	109.0	107.9	105.2	105.8	103.8	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
FRFQ.	50	81.6	81.9	79.9	80.2	80.0	78.9	78.8	79.9	79.2	78.0	77.0	77.7	78.7	78.8	78.8	81.7
RADIAL 100. FT.	63	79.1	78.2	79.8	77.5	80.4	77.0	75.1	73.1	73.3	75.2	74.9	73.9	72.4	74.2	74.3	78.1
( 30. H)	80	73.5	73.7	71.0	70.7	71.7	70.5	69.5	69.4	72.0	71.8	70.0	69.4	67.9	69.8	69.9	76.4
VEHICLE ATT	100	71.8	70.9	70.0	70.1	67.9	67.7	67.0	67.0	67.0	68.1	69.0	69.5	69.1	69.1	68.9	73.8
CONFIG T/0	120	69.9	67.0	66.8	68.4	69.2	68.2	68.5	67.2	66.2	67.3	68.3	69.0	70.3	69.3	71.3	73.9
LOC PTO	160	68.9	70.8	72.0	77.1	78.1	73.9	76.8	75.7	75.9	74.0	73.1	75.9	73.9	75.8	74.9	74.7
DATE 7/16/74	200	71.7	72.8	73.9	77.1	78.9	73.6	77.0	76.0	75.9	74.2	73.2	75.8	74.0	74.9	74.1	75.0
RUM 303	250	73.9	75.0	73.9	74.3	74.0	72.8	72.0	71.0	69.2	69.3	69.9	69.9	71.3	72.2	70.2	71.8
TAPE 53134	310	71.7	71.6	72.4	72.9	72.8	70.8	68.9	69.9	70.0	68.4	71.2	72.0	73.3	73.2	71.2	72.0
BAR 29.0 HG	400	71.5	73.9	75.0	76.1	73.1	71.9	70.9	68.9	69.0	69.3	71.4	72.7	74.1	74.0	72.1	70.8
(97895. N/M2)	500	74.4	74.9	75.4	75.9	74.8	71.0	73.6	72.0	73.6	72.9	72.2	72.0	74.3	79.2	75.0	72.8
TAMB 72. DEG F	630	72.2	74.2	76.1	76.6	75.0	72.2	72.3	71.9	72.2	72.4	73.4	72.0	73.3	75.3	75.2	74.0
(295. DEG K)	800	74.6	75.1	76.7	79.4	75.2	73.0	74.9	72.8	72.6	72.1	74.5	72.8	74.2	73.8	71.9	71.0
THET 64. DEG F	1000	74.1	73.9	74.9	73.5	75.3	72.6	74.2	72.9	72.4	73.3	73.0	75.2	74.5	74.3	73.1	71.2
(291. DEG K)	1250	73.7	75.0	76.9	78.2	77.0	75.1	73.9	73.8	73.4	73.3	75.3	76.2	76.5	75.3	74.0	72.1
HACT 12.82 GM/43	1600	74.0	73.0	76.1	77.5	76.1	75.3	73.9	73.8	73.0	72.5	73.5	77.2	74.1	74.2	73.0	70.0
(.01282 KG/M3)	2000	74.1	75.9	77.2	79.4	78.4	76.2	74.3	73.9	74.1	72.6	74.4	77.3	75.6	77.4	75.4	72.2
NFA10634. RPM	2500	74.6	77.0	78.1	80.3	79.9	77.2	75.3	73.9	75.1	74.1	74.1	78.1	76.3	78.2	77.0	72.9
(1113. RAD/SEC)	3000	73.1	75.0	78.1	79.4	77.3	75.2	76.1	74.2	73.2	73.6	73.3	78.4	74.2	75.4	75.1	71.0
NFK10503. RPM	315	73.1	77.1	77.9	78.2	78.9	75.8	74.1	74.0	73.2	73.1	75.1	78.2	76.2	75.0	76.2	74.0
(1100. RAD/SEC)	4000	75.9	77.1	77.9	78.2	78.9	75.8	74.1	74.0	73.2	73.1	75.1	78.2	76.2	75.0	76.2	74.0
NFK10628. RPM	5000	73.9	74.3	78.0	78.3	79.1	77.3	76.3	75.0	74.4	75.4	76.0	79.4	77.4	75.4	76.1	69.3
(1100. RAD/SEC)	6000	74.1	75.2	76.5	76.9	78.3	74.9	75.2	72.3	74.3	71.7	73.4	76.3	74.3	75.5	74.5	71.3
NFK10628. RPM	8000	74.8	75.2	78.3	77.6	77.2	76.2	77.5	77.1	74.4	74.6	77.4	81.3	79.4	76.4	74.4	70.0
(1113. RAD/SEC)	10000	71.9	72.1	72.9	72.4	75.8	71.8	71.3	72.1	71.1	70.6	71.0	72.9	71.5	70.3	70.3	67.3
NO. OF BLADES 44	12500	68.8	68.9	68.4	69.1	69.9	69.6	69.5	70.6	68.7	69.0	68.7	70.9	69.8	66.8	67.0	64.7
16000	66.4	66.5	66.0	65.7	67.8	66.6	67.5	72.7	66.9	67.3	66.8	69.5	68.9	65.6	66.7	65.6	129.3
20000	64.3	63.3	63.5	61.6	64.1	64.1	56.2	75.3	66.6	64.6	64.1	66.3	67.4	65.5	65.3	66.2	129.6
OVERALL MEASURED	93.0	93.0	90.7	93.0	93.1	91.0	92.2	91.9	90.6	91.5	91.3	92.1	91.4	92.3	92.3	98.1	124.0
OVERALL CALCULATED	88.6	89.2	90.2	91.0	90.8	88.4	88.3	88.1	87.5	87.0	87.6	89.9	88.7	89.1	88.0	87.9	123.4
PRED	100.2	101.2	102.0	103.6	103.2	100.7	100.4	99.3	99.1	98.9	99.8	102.5	101.0	101.4	100.5	98.4	139.7

REPRODUCIBILITY OF THIS ORIGINAL PAGE IS POOR

MODEL SOUND PRESSURE LEVELS (5% DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	81.9	82.7	79.7	80.9	80.7	80.1	79.8	79.9	79.3	78.3	77.1	77.8	77.1	78.0	76.7	80.7	128.9
63	79.0	79.3	79.6	77.5	80.2	76.8	74.6	72.8	73.3	76.1	75.0	74.7	73.2	74.2	74.2	79.0	125.8
RADIAL 100, FT.	73.6	74.4	72.3	71.0	71.5	70.4	69.7	69.7	72.0	73.0	70.7	69.6	68.0	70.7	68.0	79.7	121.1
(30. M)	71.9	69.9	70.7	69.8	68.0	67.8	67.1	67.0	67.1	68.0	69.1	69.9	69.4	69.2	69.3	73.7	118.9
VEHICLE ATT	125	71.0	68.3	69.0	69.2	70.1	69.1	67.1	68.0	66.2	67.2	68.9	71.4	70.2	72.2	74.0	119.5
CONFIG Y/D	160	70.7	70.9	71.7	71.2	74.9	73.5	72.9	73.6	71.9	71.2	71.9	70.0	72.9	71.1	75.9	122.8
LOC PTO	200	74.9	75.0	74.8	69.3	78.1	76.0	75.1	76.9	73.9	73.4	74.0	72.7	71.3	73.1	72.2	123.3
DATE 7/16/74	250	74.9	74.9	74.9	75.0	75.0	72.6	73.1	71.8	70.1	69.4	69.2	69.9	71.0	72.1	71.0	122.1
RUN 304	310	72.0	71.1	73.0	72.9	74.0	70.9	70.1	70.0	69.5	68.3	69.2	72.0	74.2	74.0	71.2	121.7
TAPE 53134	400	71.9	73.8	75.7	75.3	73.7	71.7	72.0	69.9	70.1	69.2	69.1	73.6	75.0	74.2	72.0	122.6
BAR 29.0 HG	500	73.6	75.9	75.2	75.1	73.6	72.4	71.9	73.8	72.0	71.8	72.0	72.8	74.0	77.3	75.7	124.0
(97895, N/H2)	630	72.1	74.2	76.1	76.6	75.0	72.8	73.1	72.1	71.4	72.3	73.4	72.0	73.3	74.5	74.4	123.7
TMR 72, DEG F	600	73.8	74.0	76.2	78.4	75.1	73.6	75.0	72.7	72.2	72.1	72.2	72.7	72.4	73.1	72.0	124.0
(295, DEG K)	1000	73.9	73.9	75.1	75.2	75.0	73.0	74.0	73.9	73.3	73.3	73.2	74.9	73.3	74.5	72.2	124.1
INLET 64, DEG F	1250	74.1	75.1	77.1	78.6	77.1	75.1	74.2	73.6	74.3	73.5	74.2	77.0	76.5	74.4	74.0	125.7
(291, DEG K)	1600	74.1	73.8	76.8	77.4	77.1	75.1	74.2	74.1	73.3	73.2	73.3	77.0	75.3	75.9	73.3	125.4
MACT 12.82 GM/M3	2000	74.8	76.1	78.1	79.6	78.4	76.0	75.1	73.9	74.1	73.3	74.4	77.4	75.5	76.5	75.4	126.5
(.01282 KG/M3)	2500	74.6	76.9	79.0	80.3	79.9	76.9	75.7	73.9	75.2	74.1	74.1	77.6	75.9	78.2	77.2	127.4
NFA 10755, RPM	3150	73.2	73.9	79.3	79.3	78.4	75.1	75.3	75.2	73.4	75.6	74.1	79.1	74.5	75.5	76.1	127.0
(1126, RAD/SEC)	4000	75.9	77.2	78.8	79.3	78.9	74.8	74.0	75.0	73.9	73.1	75.1	77.9	77.6	76.3	77.2	127.4
NFA 10623, RPM	5000	74.1	75.1	78.4	78.6	79.4	76.2	77.3	75.2	75.3	75.5	76.1	79.5	78.7	76.8	76.4	128.3
(1112, RAD/SEC)	6300	74.2	75.4	77.0	77.8	79.2	75.3	74.1	73.0	74.2	73.5	75.2	76.3	74.6	75.5	75.4	127.0
NFA 10628, RPM	8100	76.1	75.2	78.3	77.3	78.1	77.1	78.2	80.0	77.6	77.6	79.3	80.1	77.4	76.5	74.1	130.2
(1113, RAD/SEC)	10000	72.1	72.1	72.9	73.1	74.1	72.1	72.9	72.1	72.2	71.9	72.3	73.1	72.3	71.5	70.4	125.2
NO. OF BLADES 44	12500	68.8	68.7	69.6	69.1	71.0	69.6	69.8	71.7	69.1	69.2	69.1	69.7	71.2	66.9	66.9	125.8
	16000	66.6	66.7	66.7	67.0	68.5	66.6	67.9	75.6	68.1	69.0	67.8	69.6	69.0	65.8	65.7	125.6
	20000	63.3	64.1	64.0	62.4	65.4	63.4	66.2	75.3	66.6	67.5	64.3	67.1	66.6	65.6	64.3	126.8
OVERALL MEASURED		93.0	92.1	90.7	93.4	93.1	92.0	92.0	91.7	91.3	91.2	91.3	92.1	91.4	92.5	92.3	97.8
OVERALL CALCULATED		88.9	89.5	90.6	91.3	91.0	88.7	88.4	88.7	87.6	87.5	87.8	89.6	88.6	88.8	88.0	88.1
PWDL		100.4	101.3	103.3	103.7	103.4	100.9	100.6	100.0	99.3	99.7	99.9	102.6	101.4	101.5	100.9	98.6

MODEL SOUND PRESSURE LEVELS (5% DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (C)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	74.9	75.8	74.2	75.2	74.5	74.0	74.1	72.8	73.7	73.7	71.8	71.8	71.8	72.1	70.9	79.9	125.7	
63	74.0	72.2	76.1	73.2	77.8	76.0	73.3	70.9	70.4	73.1	72.1	71.0	69.0	70.0	68.0	77.0	123.0	
RADIAL 100. FT. ( 30. M)	89	69.7	69.9	68.0	69.1	69.3	68.7	70.5	68.6	67.7	67.9	67.8	68.6	65.7	67.7	64.9	74.3	118.7
100	71.3	69.3	68.0	68.0	69.6	68.1	69.0	66.9	66.8	66.9	66.2	69.9	69.0	69.4	70.2	72.9	118.7	
VEHICLE ATT	120	70.2	70.1	68.2	70.6	67.9	71.3	72.4	68.0	66.3	64.5	63.0	69.2	69.0	67.4	70.3	71.9	119.0
CONFIG T/D	160	66.8	65.9	66.4	66.0	64.6	65.1	66.1	64.8	63.3	62.8	63.0	64.9	64.7	65.2	62.9	68.7	114.9
LOC PTD	200	73.4	74.0	72.4	71.2	69.8	69.2	69.1	66.0	64.4	64.8	62.3	62.9	63.8	65.3	63.0	67.0	117.2
DATE 7/16/74	250	79.1	79.0	77.0	77.3	76.8	74.0	74.9	70.9	70.4	68.1	67.2	68.0	65.9	69.2	68.2	68.9	122.5
RUN 305	310	80.0	80.2	79.0	79.3	79.1	77.1	75.1	72.7	71.0	70.9	67.2	67.9	67.7	67.1	67.0	68.0	124.1
TAPE S3134	400	76.1	76.9	77.2	77.1	76.7	75.0	73.9	71.7	70.0	70.1	69.1	68.8	69.2	68.3	66.9	68.0	122.7
BAR 29.0 HG	500	75.7	76.8	75.0	79.2	73.7	72.7	72.1	69.7	69.0	69.2	66.8	67.6	66.6	68.7	67.6	66.8	121.0
(97895, N/M2)	630	83.3	85.4	83.0	81.6	81.4	78.4	76.5	78.1	74.3	74.4	71.3	74.2	71.3	73.4	73.4	72.2	127.6
TMR 71. DEG F	600	79.2	83.3	84.3	80.4	80.2	79.6	78.2	75.1	73.1	73.2	74.3	76.0	75.1	71.1	70.2	69.8	127.4
(295, DEG K)	1000	81.3	82.2	81.2	79.5	79.3	78.2	77.3	72.9	72.1	72.1	71.4	73.9	72.3	69.4	69.2	68.0	129.8
TWFT 64. DEG F	1250	86.2	84.1	84.1	83.3	81.9	80.2	79.1	74.7	76.2	74.3	72.2	74.7	73.8	71.1	72.1	68.0	128.3
(291, DEG K)	1600	85.3	85.4	86.2	83.3	82.9	82.4	82.3	75.8	74.2	74.3	72.4	72.9	74.0	73.2	69.3	68.1	129.6
MACT 12.72 GM/M3	2000	82.4	84.1	84.2	82.5	81.3	81.3	81.4	79.3	76.4	74.4	71.4	73.0	73.1	71.5	70.4	69.9	129.0
(.01272 KG/M3)	2500	87.1	86.1	86.1	86.1	83.9	83.2	80.0	76.7	74.0	73.1	71.0	71.9	71.9	71.2	70.1	67.7	130.4
NFA 7475. RPM	3150	90.4	91.3	91.9	87.4	87.1	86.3	84.5	81.2	77.3	77.5	72.4	74.1	72.7	70.2	69.1	67.8	133.9
( 783, RAD/SEC)	4000	96.2	96.3	93.2	92.1	88.9	86.0	86.0	81.9	79.3	77.3	73.9	74.1	73.0	71.0	70.1	70.8	136.5
NFK 7390. RPM	5300	93.2	93.5	93.1	91.6	93.2	89.3	89.5	85.2	84.4	81.2	77.4	77.5	76.3	74.3	73.1	69.1	138.2
( 774, RAD/SEC)	6300	92.6	93.7	90.4	90.7	90.1	87.3	85.6	82.1	81.4	77.4	74.3	73.2	72.4	71.4	70.3	69.2	136.3
NFD 10628. RPM	8900	92.7	93.5	91.0	90.4	90.1	87.3	88.5	84.2	80.6	78.7	75.4	74.0	72.7	70.3	68.6	68.2	137.4
(1113, RAD/SEC)	10000	92.2	92.4	89.2	89.6	90.1	88.5	87.2	82.9	80.2	77.2	74.2	73.0	70.7	70.4	68.1	69.2	137.5
NO. OF BLADES 44	12000	88.2	89.0	86.4	86.3	85.9	86.1	85.2	80.9	77.9	76.9	72.1	70.8	68.7	65.9	65.8	65.8	136.1
16000	84.7	89.9	82.0	83.8	83.7	81.8	81.8	80.4	75.0	73.7	68.7	67.9	66.9	64.8	63.6	65.5	139.0	
20000	79.3	79.6	77.3	77.4	78.1	76.7	76.9	77.1	71.5	70.2	65.6	66.4	66.1	64.6	63.6	66.2	132.6	
OVERALL MEASURED	102.1	102.3	101.5	99.7	98.7	97.0	97.0	93.7	92.2	90.3	88.3	88.8	86.1	87.2	87.1	97.0		
OVERALL CALCULATED	102.0	102.6	100.8	99.7	97.4	97.2	96.6	92.9	90.7	88.9	86.6	86.6	85.5	84.5	83.6	85.7	146.5	
PND	116.0	116.3	114.2	115.1	112.8	110.1	109.7	105.8	104.4	102.1	99.0	99.5	98.4	97.1	95.0	95.6		

MODEL SOUND PRESSURE LEVELS (5% DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )		
RADIAL 100. FT. (30. H)	80	71.5	72.8	70.4	72.0	71.3	70.0	72.6	70.3	70.6	70.6	69.9	68.8	66.7	68.9	67.9	74.3	127.1	
VEHICLE ATT CONFIG T/O	125	72.5	72.4	69.4	71.3	70.9	69.5	68.3	66.9	66.5	68.5	68.5	66.4	70.2	69.3	68.6	69.2	71.2	124.6
LOC. PTD	200	72.1	72.3	70.9	70.1	70.7	69.2	69.9	67.0	66.0	66.2	64.3	66.0	66.9	67.2	66.1	67.7	72.0	120.4
DATE 7/16/74	250	78.3	78.0	77.1	77.5	75.8	75.0	75.0	71.9	70.2	69.9	68.2	68.8	68.8	69.2	69.2	69.8	72.6	119.8
HUM 306	315	79.3	80.2	80.1	80.3	79.9	77.1	77.0	73.0	73.9	75.0	72.4	77.3	75.0	73.9	72.0	71.9	71.2	119.0
TAMP S3134	400	76.0	75.2	77.0	76.6	77.9	79.1	76.8	71.9	71.1	72.7	72.2	71.8	73.6	74.0	73.0	69.5	70.6	121.6
HAD 29.0 HG	500	76.8	76.9	78.9	76.2	81.7	83.0	81.9	74.8	76.0	78.9	75.8	77.1	75.8	77.3	78.6	76.5	76.5	117.9
(97895. N/M2)	630	82.4	82.3	87.4	83.6	89.1	89.3	89.3	86.2	88.5	89.1	84.5	89.2	86.0	84.9	93.5	90.0	90.0	122.8
TAMP 71. DEG F	800	87.4	91.4	91.3	92.6	95.0	96.4	98.0	96.1	96.5	88.0	89.3	96.0	98.9	89.4	93.0	95.1	95.1	126.2
(295. DEG K)	1000	86.0	86.2	85.2	85.6	95.2	93.5	93.2	89.2	86.4	87.3	86.3	90.3	89.1	85.6	82.2	82.2	82.2	124.8
TWET 64. DEG F	1250	88.1	91.3	96.3	96.4	96.0	98.1	95.1	92.9	91.1	86.0	89.1	91.2	82.0	83.3	81.9	80.8	80.8	128.9
(291. DEG K)	1500	95.2	93.2	90.4	93.3	90.9	91.2	93.1	89.9	90.2	87.4	84.4	85.2	82.0	83.4	76.1	78.9	78.9	128.9
HACT 12.72 GM/H3	2500	99.2	96.3	91.3	89.8	89.0	88.3	91.6	88.9	86.6	85.4	81.5	83.4	82.1	79.6	75.4	79.3	79.3	128.9
(.01272 KG/H3)	2500	91.1	91.0	91.3	88.2	91.0	90.1	87.8	85.9	85.1	81.9	78.5	80.0	80.9	78.3	74.9	73.6	73.6	128.9
NFA 9080. RPM	3150	92.3	92.4	90.3	89.9	89.3	88.2	90.1	87.2	83.4	81.4	80.2	79.4	78.1	75.5	75.4	72.9	72.9	128.9
(.951. RAD/SEC)	4000	95.0	95.2	93.2	92.4	90.8	89.4	89.1	85.7	84.4	81.1	79.0	79.9	77.0	75.0	73.8	74.8	74.8	128.9
NFA 8977. RPM	5000	93.5	94.5	94.2	93.4	95.1	93.4	91.4	88.2	87.4	86.1	82.4	81.1	80.1	77.6	76.3	71.9	71.9	128.9
(.849. RAD/SEC)	6300	93.6	95.4	92.4	91.6	92.3	90.4	89.7	86.4	87.5	82.7	80.8	79.2	77.3	75.6	75.3	73.1	73.1	128.9
NFA 10628. RPM	8000	92.5	93.2	91.5	89.6	90.2	89.5	90.4	87.1	83.6	83.4	81.4	79.1	76.1	73.3	72.1	70.9	70.9	128.9
(1113. RAD/SEC)	10000	91.2	91.3	88.3	87.7	88.9	87.6	87.2	82.8	82.3	80.1	77.3	75.2	72.9	71.3	69.4	69.0	69.0	128.9
NO. OF BLADES 44	12500	86.9	87.3	84.0	82.9	84.7	85.0	82.9	80.7	78.3	77.8	73.8	71.6	69.9	68.1	66.1	65.5	65.5	128.9
	16000	82.6	83.6	80.0	80.0	80.6	79.8	79.5	77.8	73.9	72.4	70.0	69.5	67.7	64.7	65.6	63.7	63.7	128.9
	20000	77.5	77.4	75.5	74.8	76.0	74.7	75.2	77.2	73.3	59.1	66.5	66.3	66.3	65.3	64.7	63.0	63.0	128.9
OVERALL MEASURED		105.1	104.0	103.1	103.3	103.7	104.0	103.7	100.8	100.1	96.9	96.1	98.9	99.7	94.0	95.1	98.9	98.9	128.9
OVERALL CALCULATED		104.5	104.3	103.2	103.5	104.4	103.8	103.6	101.0	100.4	96.9	95.7	99.3	100.0	94.1	94.7	97.1	97.1	128.9
PWD		117.6	117.3	115.8	115.4	116.4	115.3	114.5	111.4	110.5	108.6	106.1	108.4	108.6	103.8	103.4	109.3	109.3	128.9

MODEL SOUND PRESSURE LEVELS (5% DEG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT.	56	79.8	81.1	78.0	80.0	78.6	79.2	77.9	78.1	77.7	75.0	74.8	75.7	77.1	74.0	80.6	127.6	
( 30. M)	63	76.2	77.0	77.5	75.3	80.1	77.2	74.1	72.8	73.1	76.0	74.2	73.8	73.7	74.0	72.9	79.8	125.4
VEHICLE AT	88	72.7	74.6	71.7	72.9	73.3	71.0	71.7	69.6	71.0	72.4	70.0	69.4	69.4	71.9	69.7	75.2	121.4
CONFIG T/O	100	73.9	73.9	73.1	72.1	70.8	69.9	70.2	67.7	68.2	68.8	71.3	71.9	69.7	70.1	68.0	73.9	120.4
LOC PTO	125	76.4	76.3	69.3	70.4	69.9	67.4	69.2	66.9	67.5	68.3	67.4	69.1	70.1	68.6	69.4	73.2	119.0
DATE 7/16/74	160	75.1	80.1	74.9	68.2	78.6	76.2	82.9	74.8	76.0	72.6	77.1	77.9	72.6	71.1	70.0	73.6	126.7
RUN 307	200	70.1	71.2	69.2	69.3	69.9	70.0	71.2	67.9	67.0	67.0	67.2	69.1	68.8	69.1	67.1	69.7	118.8
TAPE 53134	250	76.0	76.0	75.3	76.2	74.9	74.1	74.8	71.9	71.3	69.9	69.1	70.1	71.1	72.2	71.1	71.7	122.6
BAR 29.0 HG	315	81.2	80.2	81.1	83.4	82.9	86.3	89.3	89.0	86.2	80.0	83.8	85.8	86.3	83.9	80.0	134.2	
(97895. N/M2)	400	73.8	75.2	75.8	77.2	75.7	78.0	77.8	73.6	74.1	72.8	71.2	74.9	76.8	75.9	73.0	73.1	129.3
TAMP 71. DEG F	500	79.0	77.9	82.7	83.2	85.7	91.1	89.1	83.8	82.9	84.9	77.0	85.6	87.7	84.1	76.9	80.7	139.8
(295. DEG K)	630	88.5	79.8	88.4	88.0	88.9	89.3	92.6	90.1	89.6	90.4	88.9	84.4	89.2	85.6	86.9	89.0	139.0
INFT 64. DEG F	800	81.3	79.1	84.2	84.5	90.7	89.3	91.4	86.9	87.4	87.3	83.2	84.2	83.8	81.4	78.4	80.1	137.0
(291. DEG K)	1000	80.3	81.1	80.9	82.9	84.2	85.3	90.2	87.2	84.5	82.1	78.3	80.2	79.5	77.3	79.3	73.9	134.4
MACT 12.72 GM/MS	1250	85.3	85.1	87.0	88.4	86.9	89.3	88.4	84.1	82.1	82.9	81.4	80.2	81.9	79.6	79.1	75.9	135.1
(.61272 KG/MS)	1600	88.3	90.2	90.9	89.8	86.9	88.4	89.3	86.0	84.0	82.1	84.2	84.3	82.2	81.3	78.9	74.7	136.4
NFA 9790. RPM	2000	87.5	89.5	87.4	87.5	85.2	93.3	89.5	83.2	82.6	82.1	79.6	82.1	80.2	79.4	78.4	74.0	134.0
(1025. RAD/SEC)	2500	87.2	90.2	87.2	88.4	88.6	87.2	86.0	82.7	83.5	80.8	78.0	79.8	78.8	78.4	77.0	73.8	134.7
NFK 9679. RPM	3150	86.4	88.3	88.1	85.5	86.3	84.3	84.6	83.2	81.3	80.4	77.2	79.1	76.2	75.3	75.4	72.2	133.1
(1013. RAD/SEC)	4000	90.2	90.2	87.9	86.3	84.7	83.1	83.1	81.0	80.4	77.9	76.2	77.1	75.8	74.1	74.1	72.7	132.7
NFD 10628. RPM	5000	86.5	87.5	87.1	86.5	87.2	85.5	84.4	81.0	81.3	80.2	77.1	78.1	76.2	75.4	75.4	68.9	133.6
(1113. RAD/SEC)	6300	86.4	87.4	83.9	82.5	83.1	81.3	81.4	78.2	78.4	76.4	75.9	76.1	74.3	74.3	74.9	71.2	130.9
NO. OF BLADES 44	8000	84.5	84.5	82.1	81.5	80.8	79.3	83.7	78.0	75.4	75.9	76.9	77.2	74.2	72.4	73.4	68.2	130.2
OVERALL MEASURED	10000	82.3	82.3	79.2	77.5	73.8	77.3	77.4	73.8	73.1	72.0	71.1	71.1	70.1	69.4	68.4	66.0	127.8
OVERALL CALCULATED	12500	78.3	76.2	75.0	73.7	74.4	74.0	73.8	71.9	69.9	69.7	68.9	69.0	68.7	65.2	66.1	64.0	129.7
P.M.D.	16000	73.5	73.6	70.8	69.8	71.2	69.7	70.9	73.6	66.7	67.5	66.2	68.5	66.4	64.7	65.6	64.4	125.4
	20000	68.2	69.3	66.7	65.5	66.1	66.9	60.6	74.3	63.3	66.5	63.9	65.1	63.1	64.3	65.3	66.4	126.2
		99.0	99.0	98.2	98.2	98.6	98.3	99.2	97.0	96.0	95.8	94.1	94.9	93.8	94.0	93.1	97.7	
		98.1	98.8	98.3	98.0	98.4	98.8	99.6	96.5	95.9	95.3	93.1	93.8	94.0	92.9	91.6	90.8	146.8

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.32)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	79.0	81.1	78.0	79.0	78.5	78.8	79.0	77.9	78.1	76.8	75.1	75.8	76.4	77.0	74.9	81.8	127.6	
63	75.9	77.1	77.3	76.2	80.7	78.1	79.3	74.0	73.0	75.0	74.2	72.7	74.0	74.1	73.1	80.2	125.8	
80	72.7	74.7	71.6	73.1	73.3	71.6	72.9	71.5	71.2	72.5	70.6	68.7	67.6	70.8	68.6	76.4	121.7	
(30. M)	100	72.8	73.1	72.9	72.4	71.8	70.1	70.9	68.8	69.0	67.9	69.2	70.8	69.9	68.9	74.5	120.5	
RADIAL 100: FT.	125	71.1	71.2	69.1	71.4	71.2	68.5	69.2	68.4	68.3	68.1	67.9	69.2	69.2	69.2	72.9	119.4	
(30. M)	160	76.9	73.9	68.1	68.1	71.6	73.2	73.2	74.8	74.9	68.8	74.1	73.8	77.8	78.3	76.0	124.4	
VEHICLE ATT	200	70.9	71.3	70.2	70.3	70.8	69.9	69.3	68.0	66.1	67.1	66.2	66.8	67.7	69.2	67.1	118.5	
CONFIG T70	250	77.1	77.2	77.0	76.4	76.7	76.0	76.3	73.7	72.2	71.9	71.1	71.0	72.2	71.2	69.7	116.5	
LOC PTO	315	80.0	78.1	80.0	83.2	89.2	88.4	87.3	85.8	84.1	84.9	82.2	82.0	78.7	81.3	81.0	79.1	123.8
DATE 7/16/74	400	75.1	77.1	78.9	76.5	77.7	79.4	77.9	76.9	78.0	76.3	73.2	72.6	74.0	74.2	71.3	126.2	
RUN 308	500	79.9	83.9	90.2	80.1	86.7	90.0	89.9	87.7	88.7	86.9	82.9	79.8	82.8	80.9	76.0	136.0	
TAPE S3134	630	82.3	83.3	90.6	83.5	85.2	93.6	94.4	93.3	95.4	96.2	86.5	91.0	89.9	90.6	85.2	142.4	
BAR 29.0 HG	800	90.4	85.3	87.1	76.7	91.7	100.3	100.4	92.0	93.1	95.2	96.4	90.6	88.0	92.6	79.1	145.5	
(97929. N/H2)	1000	87.5	83.4	88.2	89.7	89.3	90.5	94.3	91.9	88.5	90.3	90.2	86.3	86.1	86.6	83.3	140.0	
TAMP 71. DEG F	1250	88.2	90.4	94.0	94.6	90.9	90.4	92.1	85.0	87.1	83.8	83.5	83.9	83.7	83.3	83.2	158.8	
(295. DEG K)	1600	93.3	95.3	97.2	95.7	87.9	92.2	95.6	87.0	87.5	88.2	83.2	85.2	79.0	84.2	79.1	140.8	
TWNT 63. DEG F	2000	96.3	96.4	95.3	90.9	91.2	90.4	92.3	87.1	83.3	83.4	63.3	81.1	81.6	79.7	79.6	138.8	
(290. DEG K)	2500	93.0	93.0	93.0	91.7	91.8	89.4	89.3	84.9	84.9	83.8	79.3	80.8	80.1	80.1	77.0	137.5	
MACT 2.47 G/M3	3150	93.1	91.5	93.5	91.7	92.2	89.6	89.3	87.2	84.5	83.2	79.3	81.1	79.1	77.3	76.4	137.9	
(.01247 KG/M3)	4000	96.0	94.2	92.2	92.4	89.8	87.0	88.4	85.6	85.1	82.8	80.0	79.8	78.8	75.2	74.1	137.4	
NFA 9505. RPM	5000	92.4	93.6	93.5	92.7	93.3	90.4	90.3	86.2	86.5	85.1	82.5	80.2	79.5	77.6	76.2	139.2	
(.995. RAD/SEC)	6300	91.6	92.7	89.8	88.7	89.4	87.4	87.3	83.3	83.7	80.7	78.7	76.6	78.4	75.4	74.2	136.4	
NFK 9401. RPM	8000	93.2	90.6	88.3	86.6	86.1	86.1	83.2	80.6	80.1	78.5	77.2	75.1	72.2	72.3	68.3	135.4	
(.984. RAD/SEC)	10000	87.5	87.5	84.3	84.7	85.1	83.3	83.3	79.1	78.3	77.1	75.4	73.1	71.7	69.5	69.1	133.3	
NFD 10828. RPM	12500	83.1	84.1	81.2	80.4	80.5	80.1	79.9	76.8	74.9	73.9	72.1	70.7	70.0	66.2	66.2	131.0	
(1113. RAD/SEC)	16000	79.9	80.0	77.9	77.2	76.5	76.0	76.7	76.8	70.9	70.6	68.7	68.8	67.7	64.9	64.7	129.9	
NO. OF BLADES 44	20000	75.5	74.8	73.5	72.6	72.4	71.5	72.8	77.2	66.5	68.5	64.4	65.5	65.1	65.4	65.5	129.7	
OVERALL MEASURED	104.0	103.3	103.3	103.7	101.9	104.1	104.3	99.7	100.1	100.5	98.2	96.6	96.1	96.4	93.2	97.7		
OVERALL CALCULATED	104.0	103.5	104.0	103.5	101.8	103.9	104.7	100.0	100.2	100.8	98.8	96.7	95.5	96.8	91.6	92.9		
PWLS	117.3	116.5	116.3	119.4	119.0	114.1	114.6	111.1	110.3	109.8	108.8	106.3	105.0	105.8	102.1	102.2	101.4	



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	57	78.9	80.8	78.0	79.0	79.6	78.8	78.9	77.8	76.7	76.6	75.0	75.6	75.8	77.3	74.9	80.9	127.4
	63	76.3	77.0	77.1	76.4	80.9	78.0	74.3	72.9	72.2	75.3	74.0	72.9	73.0	75.4	74.0	79.2	125.5
RADIAL 100. FT. ( 30. M )	81	72.6	73.6	71.7	71.9	73.3	72.0	72.6	70.6	71.6	71.7	69.9	68.6	68.6	70.0	68.6	75.7	121.3
VELOCITY AT CONFIG T/D	100	71.9	73.3	72.3	72.3	71.9	70.9	70.9	68.6	69.3	68.9	68.1	70.6	70.9	70.9	68.9	73.6	120.4
LOC PTD	125	72.2	72.5	69.2	71.4	71.2	69.1	69.2	67.9	68.3	68.1	66.4	70.2	71.1	69.3	69.2	72.3	119.5
DATE 7/16/74	166	74.1	70.2	71.2	71.3	68.6	73.1	69.9	75.5	71.0	67.8	73.0	73.6	75.9	76.1	75.7	74.3	123.2
RUN 309	200	71.3	72.2	70.2	70.1	70.8	70.0	69.0	66.9	66.2	66.8	65.1	67.2	67.0	69.5	67.2	69.2	118.3
TAPE 53134	250	78.0	75.0	77.0	77.3	77.7	77.2	76.2	73.9	72.9	71.9	70.0	71.7	70.9	72.4	71.3	71.9	124.2
BAR 29.0 HG ( 97929. N/H2 )	317	80.1	81.2	80.2	85.2	87.9	90.3	88.1	87.9	86.2	82.9	81.9	85.0	82.7	82.5	83.2	79.0	135.8
TAMP 71. DEG F ( 295. DEG K )	400	76.2	75.9	78.8	78.2	76.9	77.2	77.1	76.9	74.8	73.9	70.0	71.7	75.9	76.1	71.2	70.9	125.6
THET 63. DEG F ( 290. DEG K )	500	82.9	76.0	86.9	84.2	82.7	83.7	85.7	86.7	84.0	82.7	78.2	79.5	84.6	84.8	75.0	76.6	133.6
MACH 12.47 CM/H3 ( 0.1247 KG/H3 )	600	87.5	82.3	83.4	86.5	95.0	92.3	97.6	95.1	95.4	92.2	94.0	90.1	96.4	88.4	88.3	89.0	143.4
NFA 9373. RPM ( 981. RAD/SEC )	800	90.7	90.5	91.3	97.6	96.9	99.0	103.2	94.0	99.3	91.2	87.4	97.1	96.1	90.3	83.3	89.1	147.2
NFA 9271. RPM ( 971. RAD/SEC )	1000	87.7	86.1	87.9	91.5	90.1	94.3	95.5	93.0	91.5	88.1	88.9	88.3	85.3	86.9	83.3	79.0	141.1
NFA 10628. RPM ( 1113. RAD/SEC )	1250	90.2	94.3	97.3	99.4	92.0	91.3	91.4	88.9	86.0	84.8	83.3	84.1	86.1	78.0	84.1	75.7	139.9
NO. OF BLADES 44	1500	95.3	95.2	97.2	96.5	92.1	90.3	93.2	90.8	88.4	87.2	85.0	81.2	83.1	80.3	77.0	76.7	140.7
OVERALL MEASURED	2000	99.6	95.3	94.3	91.5	91.0	89.3	90.3	88.0	85.3	85.1	82.0	81.2	81.3	79.2	79.3	76.6	138.3
OVERALL CALCULATED	2500	93.9	93.9	93.1	93.2	91.8	89.0	89.3	86.7	87.2	84.8	81.1	81.8	80.1	79.2	77.0	76.4	138.3
	3000	91.5	91.4	91.2	91.7	92.0	89.7	88.6	86.2	84.3	84.1	80.1	81.0	79.9	77.2	76.1	74.0	137.5
	4000	96.5	94.9	92.9	93.3	90.8	88.0	88.1	85.6	84.3	83.2	80.0	80.1	78.8	74.7	75.1	74.5	137.8
	5000	92.6	94.1	93.0	92.4	94.1	92.3	91.7	87.2	87.3	86.3	82.3	81.1	80.4	77.4	76.4	71.7	140.0
	6300	95.6	93.7	90.8	89.6	91.2	88.8	87.5	83.3	84.4	81.5	79.5	78.6	77.5	76.1	74.5	72.9	137.3
	8100	91.2	91.5	90.4	88.4	89.2	87.4	88.4	84.2	81.5	81.1	79.6	77.1	75.1	72.5	72.3	69.7	136.9
	10000	89.3	89.5	86.3	85.5	87.1	85.3	84.2	80.3	79.5	78.5	75.3	73.9	72.2	70.0	69.1	67.7	134.8
	12500	85.2	85.2	82.1	82.1	82.6	81.9	81.1	77.7	76.1	75.1	73.2	71.0	69.7	66.1	66.1	64.8	132.4
	15000	80.8	81.0	78.7	78.9	79.7	76.8	79.2	76.6	71.8	71.7	69.7	68.5	66.7	65.9	64.9	64.6	131.3
	20000	76.6	76.6	74.4	73.8	75.4	73.4	77.5	75.3	68.6	69.4	65.9	66.3	64.5	65.5	65.5	66.0	131.0
		104.1	104.0	104.3	104.5	104.8	103.3	105.3	101.7	102.3	99.0	97.3	99.1	98.0	95.4	94.1	99.1	
		105.0	104.2	104.3	104.4	103.9	103.7	105.2	101.7	102.5	98.4	97.7	99.3	98.7	95.4	93.3	93.9	192.3
		118.1	117.1	116.1	116.4	116.2	114.8	119.7	111.0	111.9	109.4	107.4	108.5	108.6	104.6	102.9	102.6	

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MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
RADIAL 100, FT. (30, M)	50	80.2	81.8	79.1	80.4	80.1	79.8	80.2	78.9	79.8	79.0	77.8	76.8	76.8	79.0	76.8	80.9	128.8
VEHICLE ATT	60	76.1	76.0	77.2	76.2	81.1	77.1	74.2	72.7	72.9	75.8	74.9	74.0	72.8	75.2	74.2	78.9	125.6
CONFIG T/O	80	71.8	73.8	71.8	71.8	72.5	71.7	71.6	69.3	72.5	73.4	70.8	68.7	67.7	70.9	69.8	79.2	121.3
LOC PTD	100	71.1	70.1	70.1	70.1	67.9	68.0	67.9	66.8	67.2	69.0	69.0	69.9	68.8	68.9	69.3	73.9	119.0
DATE 7/16/74	120	68.3	67.4	66.4	68.6	69.2	68.3	68.5	66.1	66.3	68.8	68.8	68.1	70.2	69.4	71.5	74.9	119.1
HUM 310	160	67.1	70.9	72.8	78.5	78.1	74.0	78.4	76.7	77.0	75.8	75.0	77.8	75.7	77.4	77.5	73.9	126.6
TAPE 53134	200	68.0	69.9	72.0	77.2	76.8	73.1	77.0	75.7	75.8	75.8	74.2	76.0	73.7	76.0	75.4	71.8	125.3
BAR 29.0 HG	250	69.0	69.8	68.5	69.4	68.9	68.9	70.2	67.7	66.2	68.3	68.2	69.9	71.1	72.3	69.0	70.8	119.4
(97929, N/M2)	310	71.2	71.2	71.2	73.4	72.7	71.2	70.2	71.3	69.7	71.3	71.3	72.1	73.1	74.3	71.2	71.8	121.8
TAIR 71, DEG F	400	70.9	75.0	75.1	73.4	72.9	71.2	72.3	69.6	71.1	71.0	76.2	71.9	73.9	74.0	72.0	72.0	122.5
(295, DEG K)	500	72.8	75.6	74.8	77.3	73.6	72.0	73.8	75.0	72.8	72.6	71.0	72.9	72.8	78.9	72.8	72.7	124.4
TWET 63, DEG F	600	71.4	73.4	75.2	76.5	75.1	72.4	72.3	72.0	72.2	73.3	73.3	72.3	73.3	75.5	74.4	73.1	123.8
(290, DEG K)	1000	72.9	74.3	76.2	79.4	75.0	73.2	76.3	72.8	72.2	72.8	73.1	72.9	73.1	73.3	72.2	71.0	124.3
NFA10586, RPM	1250	73.2	74.1	74.0	76.5	73.8	73.4	75.1	72.9	72.4	73.2	73.4	75.1	73.0	73.5	72.2	70.9	124.0
(1096, RAD/SEC)	1400	74.1	75.1	76.2	78.3	75.7	74.2	75.2	73.6	73.2	74.1	74.3	76.9	75.7	75.1	74.1	70.9	125.4
NFX10471, RPM	1600	73.3	73.9	76.0	78.4	76.1	75.4	75.1	73.8	73.0	73.1	73.3	76.0	74.8	74.3	73.3	70.0	125.2
(1108, RAD/SEC)	2000	74.3	75.4	76.4	78.9	78.3	75.3	75.4	74.1	74.1	73.9	74.3	78.2	75.2	76.5	75.4	72.0	126.4
NFA10586, RPM	2500	73.8	76.1	77.0	81.2	80.0	77.1	76.0	73.5	74.1	74.9	75.1	78.2	77.1	78.4	77.3	72.7	127.6
(1096, RAD/SEC)	3150	73.3	74.3	77.5	79.5	77.3	74.3	77.2	74.1	73.5	73.9	73.4	78.1	73.2	76.2	75.2	70.9	126.5
NFX10471, RPM	4000	75.1	77.4	77.5	79.5	77.8	74.9	74.9	74.7	72.9	74.0	75.2	76.9	76.9	75.2	77.1	73.8	127.0
(1113, RAD/SEC)	5000	73.2	74.4	77.2	78.9	78.3	76.2	77.4	74.5	74.3	75.1	76.3	78.2	77.2	76.2	76.1	69.2	127.6
NFA10586, RPM	6000	73.3	75.6	75.5	77.6	78.4	74.5	74.4	72.1	73.5	72.4	74.5	76.4	74.1	75.6	75.3	71.2	126.5
(1096, RAD/SEC)	8000	74.1	74.4	77.3	76.8	77.4	75.5	79.3	77.3	77.3	77.3	79.3	81.1	77.1	74.2	74.4	71.1	129.8
NFX10471, RPM	10000	70.4	71.1	71.5	72.6	73.9	71.4	73.2	71.1	70.4	70.1	71.4	72.9	71.2	76.2	70.2	66.3	124.5
(1113, RAD/SEC)	12000	68.0	67.9	68.1	68.3	70.8	69.1	70.2	68.7	68.2	68.6	67.9	70.7	69.9	66.9	66.9	64.6	123.1
NO. OF BLADES 44	16000	65.9	66.0	66.0	66.1	67.7	65.7	67.0	74.7	66.7	67.9	67.0	69.7	67.8	65.9	66.0	65.5	124.8
OVERALL MEASURED	20000	63.4	63.3	62.4	62.6	65.1	63.3	62.5	75.5	67.4	67.2	62.9	65.4	63.2	65.5	64.2	66.2	126.2
OVERALL CALCULATED		87.3	88.7	89.2	91.3	92.9	90.9	93.3	92.0	91.1	92.1	91.3	92.0	91.1	92.4	92.3	98.0	
PWLL		99.2	101.0	101.7	104.0	102.9	100.4	101.5	99.4	99.0	99.4	100.0	102.3	100.9	101.6	100.9	98.2	139.8

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

MODEL SOUND PRESSURE LEVELS (50, DEG, F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
RADIAL 100. FT.	50	79.9	82.1	79.1	80.3	79.9	78.9	80.3	78.9	78.9	75.9	76.0	76.0	77.9	75.0	80.9	120.4	
(30. M)	63	70.9	77.2	76.9	76.1	80.1	77.2	73.9	71.7	73.0	72.8	74.1	73.7	72.1	74.3	75.1	78.3	125.3
VEHICLE ATT	80	72.6	74.5	71.0	71.0	71.3	70.0	70.0	69.3	71.0	72.5	69.0	69.4	67.9	69.6	69.0	79.4	120.7
CONFIG T <sup>ND</sup>	100	71.2	69.9	70.1	70.0	67.0	68.1	67.2	66.7	67.2	68.0	69.0	69.8	68.9	69.0	69.2	73.6	118.9
LOC PTD	125	69.5	68.5	67.9	68.5	68.9	68.6	68.3	66.2	66.4	68.0	68.4	69.1	70.2	69.2	73.1	74.1	119.2
DATE 7/10/74	160	69.3	71.7	69.0	77.4	77.0	75.1	74.8	74.8	75.1	76.9	72.2	73.0	71.9	73.0	73.1	73.0	124.1
RUN JII	200	70.0	72.9	70.1	79.4	78.8	76.0	70.0	70.0	70.0	72.6	73.2	73.0	71.0	73.2	72.0	73.0	129.3
TAPE S3134	250	69.3	69.0	69.0	69.3	68.9	69.0	70.0	67.0	67.0	68.2	69.0	69.0	71.1	72.1	70.0	70.9	119.5
WAR 2910 HG	315	71.1	71.2	72.0	73.0	72.9	70.3	71.1	69.0	69.9	68.6	70.2	72.7	73.0	73.2	71.1	71.7	121.9
(97929; N/MR)	400	71.2	74.0	74.1	75.3	72.6	71.0	73.0	68.0	71.1	70.0	69.9	72.7	74.0	74.2	72.0	70.9	122.4
TAHR 70; DEG F	500	73.0	76.0	75.3	76.4	74.7	72.0	73.3	71.7	72.7	73.5	72.0	72.0	73.0	70.9	75.0	72.7	124.6
(294; DEG K)	630	71.2	73.5	75.5	76.0	79.0	71.5	73.3	72.0	71.5	72.5	73.4	72.0	73.0	75.4	74.4	73.2	123.7
THET 63; DEG F	800	73.2	74.1	75.9	79.7	74.0	73.2	75.3	72.0	73.1	72.0	73.1	72.0	72.9	73.3	71.5	70.0	124.1
(298; DEG K)	1000	74.3	74.2	74.3	75.4	74.1	73.1	74.2	73.1	73.4	73.0	73.1	73.0	73.1	73.4	72.4	70.9	123.9
NACT 12.23 GM/M3	1250	73.0	75.3	75.0	78.0	76.9	75.2	74.9	73.6	73.0	73.0	74.0	74.0	75.7	74.3	73.2	70.0	129.9
(.01223 KG/M3)	1600	73.3	74.0	76.0	77.6	76.0	75.3	75.3	73.0	73.2	73.0	73.3	73.9	75.2	75.2	74.0	70.0	129.2
NFA10709; RPM	2000	74.1	76.4	76.5	78.8	78.1	75.4	75.4	73.8	74.3	73.9	73.3	77.5	79.4	77.7	76.1	71.9	126.4
(1121; RAD/SEC)	2500	74.1	76.2	77.4	81.2	80.0	77.1	76.2	73.6	74.9	73.0	74.0	70.1	70.9	77.9	77.0	71.9	127.6
NFK10593; RPM	3150	72.2	74.4	77.7	79.7	77.2	74.0	77.4	74.1	72.4	73.9	74.1	70.1	74.0	75.2	75.4	71.1	126.5
(1109; RAD/SEC)	4000	75.9	77.1	77.0	79.3	78.0	75.1	75.1	73.6	73.0	73.7	74.0	77.0	76.9	76.1	77.3	73.5	127.0
NFD10829; RPM	5000	73.1	74.3	77.4	79.5	79.4	76.4	77.4	75.2	75.5	75.2	75.4	79.9	77.4	75.5	76.1	69.2	120.0
(1113; RAD/SEC)	6300	73.5	75.6	75.5	76.7	78.0	74.5	74.3	72.2	74.2	73.3	74.5	76.1	74.1	74.6	75.4	71.2	126.5
NO. OF BLADES: 44	8000	74.3	75.3	76.4	77.7	78.0	76.5	79.3	79.1	79.4	77.3	79.4	80.4	77.2	79.4	75.2	70.1	129.9
12500	10000	71.2	72.3	72.2	73.2	73.0	71.4	73.2	72.2	71.4	70.9	71.2	72.0	72.1	71.5	70.4	60.0	124.9
16000	18000	68.0	68.3	68.4	69.3	70.0	69.9	70.0	71.7	68.2	68.9	68.9	69.9	70.0	67.2	66.9	64.9	123.5
20000	OVERALL MEASURED	65.7	66.0	66.0	66.9	67.0	66.9	67.8	74.7	67.0	66.7	67.0	68.0	68.0	65.0	66.0	65.6	124.0
OVERALL CALCULATED	87.5	89.0	89.1	91.3	90.6	88.4	89.1	88.1	87.9	87.5	87.5	87.5	89.9	88.2	88.0	88.1	87.6	139.7
PND8	99.6	101.1	101.7	104.0	103.0	100.5	101.5	99.2	99.3	99.2	99.6	102.4	101.0	101.2	101.0	98.1		



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
RADIAL 100. FT.	50	78.9	79.9	77.7	79.6	78.5	78.2	78.1	77.6	76.9	75.6	74.5	74.7	74.7	74.8	74.8	79.2	126.9
(30. 4)	63	75.2	76.2	77.9	75.7	80.2	77.2	75.1	74.0	72.2	75.9	74.5	72.2	73.4	73.0	75.0	78.4	125.4
VEHICLE AFT	80	72.6	73.6	72.4	71.4	72.5	70.6	70.6	69.2	71.4	70.6	71.2	67.5	67.6	69.6	69.9	72.9	120.4
CONFIG TCO	100	73.1	73.1	73.1	71.8	70.0	65.9	70.2	66.8	67.7	67.8	69.8	70.8	69.9	68.8	69.0	70.9	119.6
LOC PYD	125	70.4	70.1	69.3	69.8	69.3	66.2	65.3	66.1	67.1	66.4	67.8	68.1	69.1	68.0	69.7	70.6	118.1
DATE 7/16/74	150	76.3	77.0	71.8	74.8	77.9	77.3	76.2	74.8	75.0	72.7	76.8	70.8	79.9	80.1	78.3	72.9	126.5
RUN 314	200	68.0	68.8	68.2	68.8	68.8	67.2	68.0	66.6	63.0	65.2	65.7	66.2	67.0	67.7	67.9	67.4	117.1
TAPE A730	250	74.3	73.9	73.8	73.9	73.0	72.4	72.1	69.6	69.0	67.9	67.6	69.3	68.9	70.9	70.3	69.1	120.7
BAR 29.0 HG	300	74.0	76.0	79.2	81.9	85.0	81.0	78.2	79.8	81.1	77.3	72.7	74.1	78.9	78.9	80.2	75.5	129.5
(97996, N/M2)	400	73.1	72.8	74.9	76.9	76.8	79.2	75.2	76.6	71.0	72.0	70.6	72.9	73.8	76.9	73.2	73.2	125.1
TAMR 69. DEG F	500	81.1	78.7	80.0	84.8	86.9	90.9	86.2	88.7	81.7	83.9	80.8	82.1	82.8	88.6	82.1	85.2	136.1
(294. DEG K)	630	85.3	89.2	87.2	88.0	89.3	94.2	95.3	95.8	95.5	94.1	93.1	88.4	92.3	89.1	91.8	88.5	143.1
TWET 62. DEG F	800	85.1	80.8	83.0	88.0	82.0	91.3	97.1	87.6	89.0	86.1	89.6	91.8	87.9	79.0	82.9	88.2	148.4
(298. DEG K)	1000	84.1	81.3	86.2	89.1	80.0	90.3	92.6	87.8	87.1	89.1	84.8	85.0	83.5	82.1	81.6	75.5	137.8
HACT 12.14 GM/M3	1250	82.1	83.9	91.4	92.0	91.0	89.4	89.4	84.6	85.8	89.0	83.1	83.0	84.0	80.9	83.6	75.1	137.3
(01214 KG/M3)	1600	80.4	89.4	89.2	92.0	90.3	88.1	91.2	83.6	86.0	89.1	82.2	82.8	80.2	80.1	81.6	77.5	137.2
NFA 98.5 RPM	2000	98.5	97.3	91.4	88.9	87.1	89.3	88.4	85.7	84.0	79.2	78.9	80.4	81.9	79.1	78.4	76.3	136.7
(995. RAD/SEC)	2500	92.2	92.0	92.3	89.7	89.8	89.2	86.1	83.4	82.9	80.9	78.9	79.6	78.2	80.3	80.2	75.2	136.1
NFK 94.5 RPM	3150	88.5	90.5	91.4	88.1	87.3	86.5	86.6	85.0	83.0	81.4	78.1	80.1	77.3	73.2	76.8	71.5	139.2
(986. RAD/SEC)	4000	82.0	91.9	89.2	86.9	88.8	86.1	86.0	82.7	83.7	79.8	77.6	78.3	77.0	73.9	74.0	72.2	134.4
NFD 10628 RPM	5000	89.1	89.1	89.2	96.8	98.8	87.2	86.1	82.6	83.2	80.2	78.0	78.7	78.4	79.1	76.2	68.4	135.0
(1113. RAD/SEC)	6300	87.6	89.3	86.2	85.3	86.1	83.5	83.3	80.0	81.2	76.5	76.8	76.1	77.3	75.2	75.2	70.4	133.0
NO. OF BLADES: 44	8000	87.2	86.5	85.3	84.1	83.3	82.3	82.2	79.9	77.0	76.3	75.7	73.7	74.9	72.3	72.4	68.5	131.9
12500	84.5	84.3	82.1	81.9	81.2	79.4	79.3	75.9	74.9	72.2	71.7	71.0	70.3	67.9	69.1	66.4	64.0	129.9
16000	80.8	80.9	77.9	76.9	76.9	75.9	75.0	73.7	71.0	69.9	69.5	69.5	67.9	64.7	66.1	64.0	62.4	127.4
20000	76.9	76.7	73.8	73.6	72.4	71.0	73.0	75.5	68.8	67.5	66.6	67.6	66.9	63.6	65.0	64.1	62.7	127.0
OVERALL MEASURED	102.1	102.0	100.9	100.8	99.9	100.4	102.3	98.6	98.7	96.9	99.6	95.9	96.4	95.1	95.6	97.5	97.5	149.0
OVERALL CALCULATED	102.1	101.7	100.4	100.2	99.8	100.7	102.1	98.8	98.7	97.0	96.4	95.8	95.8	94.3	94.7	93.5	93.5	149.0
PND8	115.7	115.1	113.6	112.5	112.2	112.1	111.5	108.9	108.6	106.7	105.7	105.4	105.4	103.8	104.5	101.7	101.7	149.0

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PWL
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)		
RADIAL 100. FT. (30. MI)	50	78.8	79.9	76.8	79.3	78.9	78.1	78.0	77.9	76.8	76.8	77.9	74.7	74.7	75.9	74.0	89.4	127.1
VEHICLE ATT	63	75.1	75.2	76.2	75.3	81.0	77.2	74.0	72.0	72.3	75.0	76.2	71.0	72.0	73.1	73.2	79.7	125.3
CONFIG T'D	80	71.8	73.0	70.8	70.9	71.3	69.5	69.9	68.0	70.7	70.7	73.0	67.6	67.4	69.6	67.0	70.4	120.7
LOC PTO	100	72.7	73.1	70.1	70.2	68.6	68.1	69.2	66.6	67.9	67.8	72.1	70.7	68.8	68.2	66.8	74.4	119.5
DATE 7/18/74	125	68.5	69.4	67.4	68.5	68.3	65.7	67.2	66.0	67.3	66.3	71.2	67.2	69.0	67.7	68.0	72.8	118.3
RUN 315	160	77.0	77.1	72.1	70.4	76.8	77.9	77.9	71.7	75.2	74.9	79.4	75.9	80.0	79.3	75.9	74.4	126.9
TAPE	200	67.9	69.3	67.9	68.3	68.7	67.2	68.2	65.9	68.0	69.8	68.2	67.0	67.6	68.0	67.2	69.6	117.5
BAR 29.0 HG	250	73.2	73.9	72.2	73.3	71.9	71.2	72.3	69.8	69.0	68.9	68.1	69.0	69.8	71.4	69.2	70.7	120.6
(97996: N/M2)	315	72.9	73.3	76.2	76.2	82.8	79.2	76.8	79.9	80.4	78.0	69.8	79.2	76.9	61.1	79.8	76.8	128.9
(294: DEG F)	400	71.2	73.0	73.0	75.2	75.7	78.0	77.2	74.7	72.2	74.0	69.0	73.0	74.9	76.2	72.9	73.5	124.8
(290: DEG K)	500	79.9	81.0	78.2	84.1	86.7	91.8	90.0	87.0	82.9	88.0	76.8	63.9	85.6	87.8	82.8	85.7	150.8
(1003: RAD/SEC)	630	90.5	86.6	91.3	89.5	91.0	92.3	93.6	96.3	95.2	93.4	92.5	89.5	92.3	84.6	83.6	83.0	142.9
(996: RAD/SEC)	800	82.1	82.2	86.1	90.2	84.3	91.0	96.3	89.8	92.3	90.0	89.4	87.1	83.1	86.2	83.1	87.3	140.4
(1113: RAD/SEC)	1000	84.2	83.3	85.3	85.5	90.1	92.5	91.5	87.2	86.2	82.5	82.4	85.2	81.9	80.6	78.3	76.2	157.5
(10121: KG/M3)	1250	89.0	85.2	87.5	91.4	91.8	92.3	91.0	85.8	85.1	82.9	80.1	84.1	82.7	80.4	82.0	78.8	137.9
NFA 9600: RPM	1600	89.3	87.6	88.5	90.5	88.8	87.2	89.5	87.2	84.4	80.3	82.5	86.0	81.2	82.2	81.1	74.9	156.7
(1003: RAD/SEC)	2000	94.5	91.5	88.9	88.2	89.2	89.2	87.5	84.3	84.3	80.3	82.4	81.2	80.4	78.3	74.1		136.5
(996: RAD/SEC)	2500	93.0	92.0	90.2	90.3	88.9	88.3	88.2	84.8	84.0	83.0	79.3	81.1	78.8	78.5	77.3	74.5	156.2
NFA 9600: RPM	3150	88.3	90.3	88.3	88.9	86.3	87.5	86.3	83.9	82.2	81.3	78.3	79.4	77.4	76.2	74.3	71.8	134.7
(1003: RAD/SEC)	4000	86.9	93.3	89.1	88.6	86.9	84.0	85.2	84.0	82.0	79.1	76.9	78.5	74.2	72.9	72.8		154.6
NFA 9600: RPM	5000	88.3	89.3	87.9	87.9	89.3	86.3	86.5	82.3	82.4	81.2	78.6	79.1	78.4	75.5	75.3	70.1	135.2
(996: RAD/SEC)	6300	87.4	88.9	85.4	84.8	86.2	82.5	82.4	80.1	80.7	77.2	76.4	76.1	75.2	74.3	75.4	70.2	132.6
NFA 10628: RPM	8000	86.5	86.6	84.5	82.6	80.6	82.8	80.0	77.3	76.3	76.4	75.3	74.1	72.4	73.2	68.4		151.5
(1113: RAD/SEC)	10000	84.4	83.3	81.2	79.8	81.0	79.2	78.4	75.8	75.3	72.9	73.2	71.8	69.8	68.5	68.2	66.3	129.4
NO. OF BLADES 44	12500	80.3	80.3	77.3	76.3	76.6	76.1	75.1	73.8	72.1	70.9	69.9	69.7	68.7	64.9	66.1	62.9	127.4
	16000	75.7	75.8	72.8	72.0	72.4	70.9	71.1	75.6	68.7	68.8	69.7	67.6	66.9	64.1	64.7	62.9	126.8
	20000	70.4	70.5	68.7	67.6	68.4	66.4	67.4	74.1	68.4	66.5	62.5	64.4	63.7	63.7	63.4	63.3	132.2
OVERALL MEASURED		101.3	100.4	99.2	99.5	99.7	100.3	101.3	99.7	99.8	98.8	101.3	95.9	96.1	94.3	93.2	97.7	
OVERALL CALCULATED		100.9	100.7	99.7	100.0	100.0	100.8	101.5	99.6	98.9	98.6	96.1	95.2	95.4	93.8	91.7	92.5	149.0
PNDR		113.9	114.5	112.2	112.4	112.0	111.6	111.6	109.4	108.5	108.1	105.4	105.7	105.2	103.3	102.8	101.3	

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	79.0	80.5	78.6	80.1	79.2	79.0	78.9	79.1	77.9	77.9	74.7	78.0	75.9	76.9	75.4	81.7	127.9	
53	75.0	74.9	76.7	74.0	81.1	76.9	74.2	72.3	73.0	76.0	72.9	72.1	72.8	73.0	73.9	79.2	125.1	
RADIAL 100. Ft. (30. M)	30	72.7	74.3	72.2	71.9	71.8	69.8	70.6	68.7	70.4	72.8	68.3	67.8	67.4	69.7	68.3	79.7	120.5
VEHICLE ATT	100	71.7	72.0	71.8	70.0	68.1	68.1	68.2	66.0	67.1	72.1	68.5	69.7	68.9	68.1	67.4	73.7	119.3
CONFIG TTD	125	69.3	69.1	67.8	68.3	68.5	66.5	68.5	66.4	67.1	71.1	65.2	68.1	68.2	67.5	68.9	72.3	118.3
LOC PTO	160	72.9	81.8	77.8	69.0	79.3	77.1	83.2	78.1	75.1	77.1	77.7	78.9	78.0	79.1	89.8	74.8	128.2
DATE 7/10/74	200	67.1	70.0	67.9	67.2	69.0	67.3	71.1	68.1	65.9	71.3	65.9	68.0	68.1	69.2	66.7	69.1	118.6
RUN 310	250	72.1	71.9	72.7	72.8	73.1	72.0	73.2	71.3	70.0	72.1	67.7	69.0	70.1	70.9	69.7	70.0	121.2
TAPE S3134	315	82.9	83.8	84.6	83.9	87.9	88.0	87.0	88.1	87.2	83.0	79.7	82.0	81.1	81.2	81.8	79.1	135.1
BAR 29.0 HG	400	71.7	74.9	76.8	77.0	79.3	76.1	74.8	77.1	75.6	74.1	69.5	72.7	73.8	72.7	71.7	70.9	125.1
(97996) N/M2	500	72.9	84.9	87.5	88.9	91.9	86.8	82.9	89.1	88.0	83.1	73.5	82.0	82.7	83.8	79.7	77.9	136.2
TAMB 69. DEG F	630	79.1	81.3	86.9	82.0	89.0	83.3	89.3	87.6	83.4	90.2	83.8	81.4	83.3	85.4	88.8	85.2	136.7
(294. DEG K)	800	83.1	81.8	81.7	80.2	82.2	89.0	84.3	83.4	84.1	89.1	87.8	88.0	80.1	82.1	81.9	80.1	134.4
TWET 62. DEG F	1000	79.1	80.2	83.0	83.4	85.3	85.5	85.4	84.6	81.3	81.4	80.0	80.9	82.4	77.2	75.1	73.2	132.9
(29.0 DEG K)	1250	86.1	83.1	84.7	87.2	84.2	87.3	84.3	83.3	80.8	83.0	79.8	79.0	83.2	78.8	78.8	74.2	133.4
NACT 12.14 GM/M3	1600	85.0	88.0	88.1	84.0	89.3	84.4	83.4	81.3	79.8	79.2	77.9	80.3	78.2	79.1	74.7	71.4	132.3
(.01214 KG/M3)	2000	89.3	88.2	88.0	86.1	84.4	83.3	83.5	81.7	78.2	79.7	78.1	79.2	78.3	77.9	76.1	72.3	132.4
MFA 9707 RPM	2500	86.1	88.9	87.9	87.8	85.0	84.0	83.2	80.4	80.8	80.2	75.8	78.2	78.0	77.9	77.1	71.9	132.8
(1816. RAD/SEC)	3150	84.3	85.0	86.2	83.4	83.3	81.5	82.5	79.7	76.3	88.7	74.8	78.2	75.1	74.2	74.7	78.2	131.0
NFK 9615 RPM	4000	88.0	88.1	84.6	84.8	82.1	80.3	88.0	79.2	77.0	78.3	74.5	79.8	75.8	73.0	73.6	71.1	130.4
(1007. RAD/SEC)	5000	84.0	85.1	85.2	83.6	85.2	82.5	82.5	78.7	78.3	80.7	74.5	78.2	76.8	73.3	79.8	67.9	131.7
NFD 18628 RPM	6300	83.3	84.5	81.3	80.5	82.5	79.5	79.4	76.4	77.7	77.7	76.2	77.9	75.4	73.4	74.2	69.5	129.8
(1113. RAD/SEC)	8000	82.1	82.1	80.3	79.5	79.2	78.6	79.3	76.3	75.3	78.4	76.1	78.2	75.3	72.1	72.1	67.3	129.5
NO. OF BLADES: 44	12500	79.1	79.4	76.9	75.1	76.3	75.2	75.1	72.5	71.3	73.4	69.9	70.3	69.1	68.2	69.2	64.2	126.0
OVERALL MEASURED	16000	74.8	75.7	72.9	70.6	72.9	72.2	72.2	71.1	68.1	71.9	68.7	69.1	67.8	64.8	66.8	62.1	124.5
OVERALL CALCULATED	20000	70.6	71.6	69.4	67.6	69.7	67.6	68.9	73.8	65.9	70.0	67.4	67.7	67.7	65.0	64.9	61.9	125.0
PND8	98.9	98.2	97.0	96.1	97.9	97.0	96.4	96.1	94.9	95.4	93.8	93.3	93.2	93.2	93.9	97.9	129.8	
	96.7	97.4	97.4	96.5	97.9	96.7	96.2	95.8	94.2	95.0	91.9	91.8	92.0	91.7	91.8	90.4	126.7	
	110.1	110.7	110.1	109.3	108.9	107.7	107.4	105.5	104.6	105.6	101.9	103.3	102.8	102.8	102.8	101.7	99.2	145.3

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	80.0	81.6	78.8	80.1	79.8	79.2	79.9	79.2	77.7	77.1	75.7	76.0	76.2	76.9	76.5	81.0	128.0
63	79.1	76.0	76.9	74.9	81.1	77.2	73.0	71.3	72.0	75.0	74.8	73.1	72.1	72.9	73.9	78.3	125.0
RADIAL 100. FT. (30. MI)	71.4	73.3	71.9	70.7	71.5	69.8	69.9	69.7	70.6	71.6	69.5	67.9	67.7	69.7	69.9	79.6	120.4
VEHICLE ATT	100	70.7	69.8	69.6	69.0	67.0	67.1	66.0	65.9	68.2	68.8	69.2	68.3	68.1	68.9	74.0	118.4
CONFIG T'D	125	68.1	66.2	66.0	67.9	69.1	67.3	67.4	65.2	67.4	67.1	67.3	69.2	68.5	70.9	73.1	118.1
LOC PTD	160	70.9	70.6	71.4	76.8	73.9	72.8	72.1	73.9	72.6	71.8	70.6	70.0	69.8	72.9	71.6	122.7
DATE 7/18/74	200	72.0	72.8	73.6	79.0	76.0	75.0	74.9	76.4	73.8	72.0	71.7	70.2	70.9	73.2	72.8	124.3
RUN 317	250	68.0	68.7	68.7	68.9	68.9	68.1	70.0	67.3	66.0	67.1	67.7	69.1	70.2	71.1	69.8	118.9
TAPE S3134	315	69.8	70.0	71.7	71.7	72.0	69.2	70.8	70.1	67.9	67.9	69.7	72.2	73.1	72.8	71.7	121.0
BAR 29.0 HG (97996; N/M2)	400	69.8	72.9	73.7	74.9	72.7	70.1	72.0	68.8	68.7	68.1	69.7	71.8	73.8	73.0	71.7	121.6
TAMB 69, DEG F (294; DEG K)	500	70.8	74.8	74.3	74.6	74.6	72.9	72.0	72.9	71.8	71.0	70.6	72.7	75.0	77.9	75.5	123.9
THET 62, DEG F (290; DEG K)	630	70.3	73.2	74.9	75.0	74.2	71.4	72.4	71.2	71.2	71.8	71.3	72.4	74.3	74.8	70.4	122.8
MACT12.14 GM/M3 (.01214 KG/M3)	800	72.1	74.1	75.9	77.8	74.2	73.1	73.9	72.2	72.0	71.2	71.9	72.8	72.2	71.7	69.2	123.3
NFA16754, RPM (1128; RAD/SEC)	1000	72.3	74.3	74.8	75.1	74.1	73.1	74.1	73.2	73.3	73.1	72.1	75.4	73.4	73.0	70.2	123.9
NFK10652, RPM (1115; RAD/SEC)	1250	72.9	75.1	76.9	78.0	77.1	74.9	74.9	73.2	73.7	74.3	73.8	77.2	76.0	74.8	74.6	125.6
NFD10828, RPM (1113; RAD/SEC)	1600	72.2	74.1	76.7	77.1	76.0	74.0	74.3	73.1	73.0	72.3	72.7	76.2	75.4	75.3	73.9	124.9
NO. OF BLADES 44	2000	73.3	76.0	76.8	78.2	78.5	75.3	75.3	74.2	73.9	74.2	73.8	77.6	75.5	76.1	75.9	126.3
OVERALL MEASURED	2500	73.6	76.9	78.1	79.9	80.1	77.3	77.1	74.3	75.8	74.9	73.5	78.1	77.1	78.1	78.0	127.7
OVERALL CALCULATED	3150	73.0	75.2	77.9	80.3	78.5	75.4	78.4	74.2	75.2	74.2	74.8	79.2	76.3	75.1	79.0	127.4
PND8	4000	75.7	77.9	78.9	79.8	79.2	77.3	76.1	76.0	74.7	75.0	74.5	78.2	79.2	77.0	77.7	128.2
	5000	73.0	75.3	78.9	79.2	80.3	78.3	78.5	77.6	76.0	77.5	75.8	81.4	80.4	76.4	77.1	129.5
	6300	73.2	76.3	76.0	77.3	79.5	75.6	75.2	74.6	75.2	79.6	74.9	77.4	75.6	75.5	76.2	127.5
	8000	74.3	76.1	78.1	78.2	78.2	76.2	79.4	80.5	75.0	77.3	76.1	80.4	77.9	76.4	75.0	129.9
	10000	71.3	72.1	72.8	73.3	75.3	71.4	74.3	71.5	71.0	72.4	71.8	73.3	72.4	70.3	71.1	125.3
	12500	67.1	69.0	69.6	68.9	70.9	70.1	71.1	70.1	67.9	71.9	68.9	71.2	70.1	67.1	67.7	124.0
	16000	64.9	66.6	66.6	65.8	67.8	67.0	67.9	70.9	64.8	71.0	66.6	69.7	68.6	65.7	66.4	124.3
	20000	62.6	63.5	62.3	62.4	64.6	63.7	64.6	71.8	61.4	69.7	64.4	66.4	64.8	65.7	65.3	125.2
		92.2	92.2	91.0	92.9	93.1	91.3	91.6	91.3	90.2	91.3	91.8	91.9	90.8	90.6	92.9	98.0
		87.0	88.9	89.7	90.8	90.8	88.5	89.0	88.4	87.1	87.6	86.8	89.7	88.9	88.5	88.3	87.5
		99.3	101.4	102.6	103.8	103.3	101.1	101.8	100.4	99.5	100.1	99.2	103.2	102.5	101.2	101.3	97.6



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.8	80.8	77.8	78.6	78.0	77.8	77.8	78.1	78.7	79.7	76.7	76.0	76.0	76.9	75.4	80.3	127.2	
63	73.8	73.8	76.6	74.1	81.0	76.9	73.1	71.3	71.2	74.2	74.6	71.2	70.9	71.9	72.6	77.2	124.5	
RADIAL 100. Ft. (30. M)	80	70.3	71.7	70.6	70.5	71.6	69.7	70.9	69.2	69.8	69.8	70.5	67.3	65.6	67.9	68.4	74.8	119.8
VEHICLE AT	100	71.0	71.7	71.6	70.8	71.0	69.9	69.9	68.1	66.9	66.1	68.9	70.8	69.9	69.1	71.6	72.8	119.7
CONFIG T°	125	72.1	71.8	69.2	70.4	71.2	68.5	68.1	66.3	66.2	66.3	67.9	69.0	69.0	67.3	70.8	71.2	118.6
LOC PTO	160	76.9	69.9	68.9	72.8	68.8	71.2	68.9	69.2	67.9	67.1	67.6	72.9	73.0	72.9	75.8	70.3	121.0
DATE 7/18/74	200	71.3	71.0	70.1	68.9	70.1	69.2	69.4	66.2	65.8	65.0	64.7	65.9	66.1	67.0	65.9	68.2	117.4
RUN 318	250	76.8	76.0	77.1	76.0	75.1	74.1	73.4	70.5	69.3	68.0	66.8	69.1	68.7	69.1	68.7	68.2	121.7
TAPE	315	77.0	77.0	76.6	79.1	77.4	76.1	74.4	73.2	72.8	72.2	72.5	78.0	74.9	74.0	70.2	125.3	
BAR 29.0 HG	400	75.9	74.9	75.5	75.9	82.0	81.0	77.8	72.2	70.8	71.7	73.7	73.0	73.8	74.0	73.5	69.0	126.1
(97996: N/M2)	500	78.8	77.8	78.9	78.9	87.0	85.8	83.8	78.3	80.7	77.6	78.0	80.3	79.7	79.8	79.9	73.7	131.7
TAHB 69. DEG F	630	86.3	85.3	85.0	86.5	93.7	93.5	95.2	89.5	94.1	92.5	85.0	92.5	91.1	90.2	89.8	87.5	142.0
(294. DEG K)	800	91.9	92.9	88.1	91.0	98.2	95.3	101.0	96.4	96.1	93.2	94.7	93.2	96.9	83.2	91.9	92.3	146.1
THET 62. DEG F	1000	82.2	90.2	83.9	90.1	90.7	94.5	94.5	89.7	84.0	84.2	85.2	91.4	84.1	83.4	78.9	78.7	139.7
(290. DEG K)	1250	91.1	95.1	100.7	100.2	97.6	98.3	96.2	94.2	87.8	89.7	89.7	92.4	85.2	84.2	85.7	78.5	144.7
HACT 12.14 GM/M3	1600	93.2	92.2	95.0	94.3	93.2	92.2	93.1	91.3	90.0	87.2	82.9	86.3	84.9	82.1	78.1	76.2	140.5
(.01214 KG/M3)	2000	99.1	96.3	94.0	92.4	93.4	91.0	91.4	89.7	85.2	83.4	81.2	83.4	83.2	82.1	80.0	76.3	139.4
NFA 9070. RPM	2500	92.8	92.9	93.7	90.9	90.1	91.5	88.0	86.1	85.6	81.2	79.7	80.2	80.9	78.0	76.9	73.3	137.6
(950. RAD/SEC)	3150	91.3	92.1	91.3	92.3	91.6	90.5	89.3	85.4	84.1	83.2	81.3	81.2	80.6	76.3	76.9	73.3	137.7
NFK 8984. RPM	4000	94.9	96.1	93.8	92.1	91.1	88.3	89.2	87.3	83.7	81.8	79.7	79.8	78.3	75.1	74.5	73.1	138.0
(941. RAD/SEC)	5000	93.1	94.3	94.9	92.4	95.4	92.3	92.3	88.3	86.9	82.5	82.0	81.0	80.3	77.3	76.8	71.4	140.6
NFU10628. RPM	6300	93.3	94.5	92.1	90.4	91.8	89.7	89.6	85.5	85.9	81.6	81.4	78.3	77.1	76.2	74.9	72.6	138.4
(1113. RAD/SEC)	8000	92.1	92.3	91.1	89.3	89.4	88.5	90.5	86.7	83.0	82.5	80.4	78.3	76.0	73.0	71.9	69.2	138.1
NO. OF BLADES 44	10000	90.2	90.1	88.0	86.5	88.5	86.4	86.2	83.5	81.2	78.5	76.9	74.8	73.0	71.3	69.6	68.5	136.2
16000	12500	86.0	87.0	84.6	82.9	83.8	82.9	83.2	80.2	77.1	76.4	73.6	71.8	69.8	67.4	66.9	64.4	133.9
20000		81.5	82.5	80.9	78.8	79.7	79.0	79.0	78.0	72.6	71.7	69.6	68.5	66.8	63.7	65.7	62.1	131.9
OVERALL MEASURED		76.3	76.4	75.2	73.5	75.3	74.8	75.5	76.7	68.3	67.4	65.2	66.2	63.4	63.4	64.5	61.7	130.9
OVERALL CALCULATED		103.8	104.8	104.7	104.2	105.0	104.1	105.4	101.2	100.9	99.0	99.8	100.0	99.1	94.1	95.7	98.3	
PND8		117.5	117.8	116.6	115.6	117.0	115.2	115.3	111.8	110.2	108.5	107.4	108.4	108.1	104.1	104.5	103.2	192.3

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	PWL	
FREQ. (0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.7	80.6	78.5	78.5	78.9	78.3	78.0	78.1	76.9	75.7	82.7	74.9	75.0	75.9	74.4	79.3	127.9	
63	74.8	74.8	76.8	74.9	81.1	77.0	73.3	72.1	71.0	75.0	81.1	72.3	71.9	73.1	73.6	78.2	126.0	
RADIAL 100. FT. (30. MO)	80	71.5	73.4	71.4	70.2	71.8	69.6	70.8	68.8	69.8	78.4	67.6	66.6	68.5	68.2	73.7	121.6	
108	73.1	72.7	73.7	70.5	69.9	69.0	69.9	68.1	67.8	68.0	76.8	71.0	69.7	68.8	68.6	73.0	121.0	
VEHICLE ATT CONFIG T'D	125	70.3	70.9	70.2	69.2	68.9	68.4	67.3	67.2	68.4	74.8	68.4	69.3	68.3	69.0	71.3	119.4	
160	75.9	77.7	73.9	73.6	77.9	75.8	76.8	73.1	75.8	71.1	77.8	72.9	80.0	78.9	77.8	73.0	126.4	
LOC PTD	200	68.1	69.3	69.0	68.8	69.2	67.4	68.0	68.1	65.9	65.1	72.9	67.0	68.1	68.0	68.5	118.4	
DATE 7/18/74	250	73.8	74.8	74.7	74.1	73.1	72.1	72.2	70.1	68.9	67.9	71.9	69.3	69.8	70.9	69.6	121.2	
RUN 319	315	75.1	74.8	78.9	81.1	84.9	82.1	79.3	80.4	80.2	78.1	73.9	76.1	74.7	79.1	80.0	76.1	129.7
TAPE S3134	400	73.6	73.9	76.7	75.9	78.1	81.1	78.2	79.0	71.9	73.9	71.5	73.0	72.6	77.0	73.7	74.0	126.4
BAR 29.0 HG	500	82.8	81.9	85.7	86.0	89.0	92.8	89.8	92.9	82.7	82.9	81.6	83.6	79.7	88.9	83.4	86.3	137.9
(97996: N/M2)	630	83.9	88.2	81.9	90.7	86.4	92.6	92.2	94.5	96.1	92.2	91.2	89.4	90.1	89.3	89.8	86.4	142.1
TAMB 69: DEG F	800	85.7	86.1	83.7	91.2	89.9	91.1	97.9	93.4	92.1	91.0	85.0	93.2	91.1	87.3	82.8	87.3	142.2
(294: DEG K)	1000	87.3	86.1	86.8	89.7	89.3	92.3	93.5	90.6	89.0	86.5	86.1	85.4	84.2	83.4	81.9	77.6	139.0
THET 62: DEG F	1250	85.7	88.9	91.8	91.9	90.9	91.0	90.0	87.4	84.4	82.2	82.9	81.9	83.9	83.0	81.0	75.0	137.8
(290: DEG K)	1600	92.0	89.1	89.9	92.3	88.1	88.2	89.4	88.2	85.9	86.4	79.3	83.3	80.9	82.1	78.8	76.0	136.9
HACT 12.15 GM/M3	2000	97.1	95.3	94.8	90.3	89.4	90.6	87.5	84.4	85.1	81.3	79.1	80.2	80.1	79.2	78.2	74.3	137.2
(.61214: KG/M3)	2500	92.7	96.8	93.6	90.3	89.0	91.3	88.0	84.6	83.1	82.1	78.7	79.9	80.1	78.9	78.8	72.8	137.5
NFA 9505: RPM	3150	89.1	91.3	92.0	89.6	88.4	86.5	87.5	84.6	82.2	80.5	76.8	80.4	77.1	76.1	75.7	71.9	135.7
(995: RAD/SEC)	4000	94.0	94.9	90.0	93.2	87.8	86.4	86.2	84.1	81.8	79.3	78.1	78.1	77.1	73.9	74.4	72.0	135.6
NFK 9415: RPM	5000	88.4	91.1	90.0	89.7	90.1	87.5	87.2	84.4	83.4	81.2	79.0	79.3	77.3	75.2	76.0	69.0	136.2
(986: RAD/SEC)	6300	89.2	90.6	87.2	85.5	86.3	83.7	84.4	80.8	80.3	77.7	77.2	77.2	77.3	74.1	74.1	70.0	133.6
NFD 18628: RPM	8000	88.3	87.4	86.8	83.1	83.5	82.5	83.2	80.7	77.2	77.5	78.4	76.1	75.2	71.4	71.7	68.2	132.6
(1113: RAD/SEC)	10000	85.0	85.0	82.9	81.3	82.2	80.4	79.6	77.4	75.1	73.3	76.1	72.4	70.0	68.3	68.9	65.8	130.7
NO. OF BLADES 44	12500	80.7	81.8	79.6	77.1	78.0	77.2	76.2	74.2	71.8	72.0	75.9	69.9	68.0	65.1	66.5	62.1	128.8
16000	77.8	77.7	75.8	73.6	73.8	72.8	72.7	74.9	67.8	69.0	78.5	68.0	66.8	64.7	65.4	60.8	129.0	
20000	73.5	73.5	71.6	69.5	68.6	67.8	68.7	73.8	63.3	67.6	93.3	66.4	63.4	64.8	64.1	62.3	141.8	
OVERALL MEASURED	101.9	102.2	101.0	100.9	100.8	101.0	102.3	100.3	99.8	97.9	104.8	97.3	95.9	96.0	94.9	98.0	128.2	
OVERALL CALCULATED	102.2	102.9	101.4	101.2	100.2	101.3	102.2	100.3	99.9	97.4	97.7	96.7	95.7	95.3	93.6	93.5	128.2	
PND8	115.4	116.6	114.6	113.5	112.7	113.2	112.1	109.7	108.9	109.7	105.4	106.2	104.9	104.1	103.4	101.7		

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT. (30. M)	50	79.0	80.8	78.6	79.5	78.9	79.1	79.1	77.8	77.1	78.7	75.8	75.8	77.2	74.6	79.2	127.6	
VEHICLE ATT	63	74.7	74.7	77.6	75.1	80.4	76.9	73.0	72.0	71.9	74.2	75.8	72.0	71.8	71.9	73.5	78.2	124.8
CONFIG T=0	80	71.6	73.4	72.3	70.8	72.6	69.6	69.7	69.0	70.4	69.9	73.5	67.7	67.0	66.6	68.4	73.5	120.4
LOC PTO	100	72.9	72.7	71.4	70.0	69.1	67.9	68.1	67.3	67.8	68.2	72.7	70.0	68.2	68.1	68.6	72.1	119.4
DATE 7/16/74	125	69.0	89.2	69.0	68.5	68.4	66.2	69.3	67.2	66.3	66.3	69.0	68.2	68.3	68.5	69.3	71.4	118.2
RUN 320	160	72.6	81.8	78.7	69.0	80.0	76.1	83.1	78.3	73.8	76.2	76.5	78.2	79.0	78.9	68.9	73.8	123.2
TAPE S3134	200	67.1	69.9	68.9	67.8	70.1	68.3	71.0	68.4	66.1	66.4	67.7	68.2	68.8	69.2	66.6	68.1	118.4
WAR 29.0 HG (97996 N/M2)	250	72.9	72.7	73.0	73.0	73.1	72.2	73.1	71.1	69.9	68.2	68.8	69.9	70.2	71.1	69.8	70.0	121.0
TAMP 69: DEG F (294: DEG K)	315	82.9	83.8	85.7	85.2	87.9	88.0	87.3	89.1	87.8	83.3	81.0	82.2	81.0	81.1	81.0	80.1	135.6
MACT 12.14 GM/M3 (1016: RAD/SEC)	400	71.6	74.7	77.7	77.0	78.9	75.8	75.0	76.2	75.6	72.2	69.7	72.8	73.6	72.8	72.4	70.1	124.9
NFA 7/84: RPM (1016: RAD/SEC)	500	73.7	84.6	87.6	88.6	91.9	87.1	82.0	88.9	87.9	81.1	73.7	81.9	83.8	82.7	80.8	77.9	136.0
NFK 9612: RPM (1006: RAD/SEC)	630	79.4	84.3	89.2	79.2	88.2	83.2	86.3	85.3	83.3	88.2	84.1	78.2	83.1	85.2	88.1	89.2	135.7
NFD 10628: RPM (1113: RAD/SEC)	800	82.1	80.1	82.9	79.5	81.9	88.4	84.1	81.4	83.8	83.3	87.7	81.0	81.8	81.9	83.7	80.1	134.2
NO. OF BLADES 44	1000	80.4	81.2	83.2	83.3	85.2	86.6	86.4	85.5	83.1	80.3	80.1	81.3	82.0	77.2	74.7	73.4	133.4
OVERALL MEASURED	1250	86.1	83.1	83.8	87.0	86.0	88.2	84.3	84.1	80.0	81.9	78.8	79.0	82.9	77.0	78.8	75.3	133.6
OVERALL CALCULATED	1600	85.9	87.1	87.2	84.3	85.5	84.3	83.1	81.2	78.9	77.2	78.1	80.2	79.0	78.3	74.6	71.3	132.1
	2000	90.1	88.4	88.2	86.4	84.2	83.4	84.5	83.5	79.1	77.3	78.0	79.6	79.1	78.2	77.1	72.7	132.8
	2500	87.8	88.7	87.7	88.0	85.9	84.0	82.0	81.3	80.1	77.3	76.5	78.9	78.1	77.9	76.5	72.2	132.8
	3150	85.1	86.1	86.0	84.2	84.4	82.5	82.3	80.4	78.3	76.7	74.8	78.2	75.9	74.2	74.7	70.2	131.2
	4000	86.8	88.8	85.9	85.1	82.2	80.3	81.1	79.1	77.9	74.2	74.8	75.6	74.9	72.8	73.9	71.3	130.8
	5000	84.1	85.0	86.2	83.2	85.5	82.3	82.5	79.4	78.4	77.3	75.1	77.9	75.9	74.0	74.9	67.6	131.5
	6300	83.4	84.3	82.2	80.2	81.7	79.5	79.4	76.4	77.4	73.4	76.0	77.4	74.2	74.3	74.9	69.6	129.5
	8000	82.0	81.3	81.1	79.6	79.3	77.7	78.9	77.5	75.3	73.5	75.1	78.5	74.2	71.4	73.9	67.3	129.1
	10000	79.3	79.2	77.2	75.4	77.4	75.2	75.1	73.4	71.2	69.4	70.1	70.3	69.0	68.2	69.0	64.2	126.0
	12500	74.9	75.1	72.9	71.7	72.9	72.2	72.2	72.3	68.7	68.2	68.0	68.9	67.7	64.9	66.9	62.2	124.4
	16000	71.5	71.5	69.6	68.6	68.9	68.0	69.0	73.9	65.6	67.0	67.7	67.5	67.6	63.7	66.4	62.1	124.8
	20000	66.4	66.5	65.1	63.5	65.4	64.7	65.4	74.5	62.4	67.5	63.2	65.6	63.3	63.3	64.1	62.0	125.9
	PNDB	109.8	111.0	110.4	109.5	109.3	107.7	107.2	105.9	104.4	102.7	102.3	103.4	102.7	102.0	102.0	99.1	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE \* MONTH \* DAY 16 MR. 1964  
 MODEL SOUND PRESSURE LEVELS (99, DEG. F, 70 PERCENT REL. HUM. DAY)

	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	30	79.7	81.7	78.9	79.8	79.9	79.2	80.2	79.1	78.5	77.2	77.5	76.7	76.9	77.8	76.9	80.1	128.3
	63	76.7	76.0	77.6	75.1	80.9	76.9	73.9	72.3	71.9	73.9	75.8	74.1	71.8	73.4	74.5	79.1	125.4
RADIAL 100. FT.	88	71.4	73.5	71.4	70.5	71.3	70.6	70.7	69.7	71.6	71.8	72.5	68.8	67.9	69.6	70.3	75.5	120.9
(30. IN)	100	70.7	69.7	69.7	69.0	67.7	67.9	67.3	68.1	66.8	67.1	70.4	68.8	68.0	68.1	68.3	73.8	118.5
VEHICLE ATT	125	67.2	66.0	66.1	67.4	69.0	67.1	67.3	65.5	65.3	66.5	68.9	67.4	69.1	68.2	70.9	73.0	118.1
CONFIG T-C	150	69.7	70.9	72.5	77.0	73.7	72.8	72.1	73.1	70.9	70.9	70.9	69.8	69.8	72.9	70.7	73.6	122.4
LOC PTO	200	73.0	74.0	74.6	79.3	76.9	75.3	74.3	76.4	74.0	72.0	71.9	70.2	70.9	72.9	70.8	77.4	124.4
DATE 7/16/74	250	68.1	69.0	68.8	69.1	68.8	68.0	69.2	67.1	66.0	68.2	67.1	68.8	69.7	71.1	69.5	69.2	118.6
RUN 321	315	70.0	69.8	71.6	72.1	72.8	70.2	70.0	69.2	67.9	67.3	69.1	71.9	72.9	73.1	71.8	70.1	120.9
TAPE S5134	400	70.8	72.6	74.4	74.9	72.7	69.9	72.1	69.2	68.9	67.9	69.6	71.8	73.0	73.7	71.7	69.9	121.7
BAR 29.0 HG	500	71.6	74.8	74.7	73.6	73.9	72.0	72.1	72.8	71.6	70.0	72.6	71.7	75.9	77.2	75.7	72.7	123.7
(97996) N/HQ	630	70.2	72.9	74.9	75.1	73.4	70.5	71.4	71.3	71.0	72.1	71.3	72.9	74.1	73.8	71.2		122.7
TAMP 69. DEG F	800	72.0	73.8	76.0	78.0	74.0	72.9	73.9	73.3	71.9	72.1	71.9	72.2	71.8	72.2	71.8	69.2	123.4
(294) DEG K	1000	73.2	73.9	74.7	75.3	74.4	73.3	74.1	73.2	73.0	73.3	72.1	73.3	73.0	73.1	72.9	70.3	123.9
TMET 62. DEG F	1250	73.0	74.8	76.9	78.2	77.4	75.3	74.1	73.2	73.7	74.3	72.7	77.2	75.6	74.9	73.7	70.3	125.5
(290) DEG K	1600	72.8	74.9	76.0	77.1	76.1	74.2	75.1	73.4	73.0	73.0	72.9	76.0	74.1	74.0	73.7	69.3	124.8
MACT 12.14 GM/MS	2000	73.9	75.3	76.8	78.4	78.7	75.5	75.2	73.5	74.1	73.1	74.1	78.2	75.3	77.4	76.1	71.5	126.4
(8121) KG/MS	2500	73.7	76.8	77.8	81.0	80.4	77.1	77.2	74.1	75.7	75.2	73.8	77.9	76.0	78.2	77.8	70.9	127.7
NFA 10759 RPM	3150	73.0	75.0	78.3	80.3	77.3	75.4	77.5	75.5	75.2	74.4	74.0	79.9	77.2	76.2	76.1	70.4	127.5
(1128) RAD/SEC	4000	76.9	77.8	77.7	79.8	79.0	75.2	76.2	75.3	75.0	74.9	76.0	78.4	80.0	77.1	77.9	74.0	128.3
NFK 10657 RPM	5000	72.9	75.2	79.1	79.3	79.6	77.4	78.5	77.6	76.3	76.6	76.1	81.3	80.4	77.4	77.9	69.2	129.4
(1118) RAD/SEC	6300	73.1	75.4	76.0	77.6	78.5	75.6	75.3	74.4	75.1	74.4	74.9	78.4	75.4	75.5	76.9	70.3	127.5
NFD 10628 RPM	8000	74.1	75.0	76.8	77.4	78.2	75.5	80.6	80.6	74.1	76.7	75.9	81.4	77.4	75.4	75.8	69.3	130.0
(1113) RAD/SEC	10000	71.0	72.1	72.1	73.2	74.4	72.4	73.3	72.3	71.2	70.5	72.1	74.0	72.1	71.2	71.8	65.5	125.2
NO. OF BLADES 44	12500	68.0	69.0	68.7	68.7	71.1	70.0	71.3	70.1	68.0	69.0	68.9	71.1	69.9	67.3	68.0	63.1	123.7
	15000	65.5	65.8	66.6	65.6	67.7	66.8	68.0	72.8	64.8	67.0	72.6	69.7	67.8	65.0	67.4	63.0	124.9
	20000	63.3	63.4	63.3	62.3	63.3	62.9	64.5	75.5	62.8	63.7	82.2	66.6	64.5	64.6	65.1	62.4	131.8
OVERALL MEASURED		91.9	91.8	90.7	92.9	92.1	91.5	92.4	91.3	89.8	91.0	99.0	92.9	91.0	91.2	91.7	97.0	
OVERALL CALCULATED		87.3	88.8	89.6	90.9	90.6	88.3	89.1	88.6	87.2	87.2	88.6	90.0	88.9	88.7	88.4	87.4	140.3
PNDR		99.9	101.3	102.3	103.9	103.2	100.6	101.5	100.5	99.5	99.6	100.2	103.3	102.5	101.4	101.4	98.0	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	77.6	79.8	77.7	77.9	77.7	77.0	77.0	77.2	75.8	74.5	73.7	74.7	74.8	74.6	74.6	77.9	126.0	
63	74.1	72.9	76.0	72.9	80.2	77.0	72.0	70.4	70.0	74.2	71.9	70.9	69.1	71.0	71.8	76.2	123.6	
RADIAL 100. FT. (30. M)	80	70.5	71.7	70.5	69.8	68.6	69.6	67.8	68.4	69.8	68.6	66.7	65.5	67.8	67.1	72.8	118.7	
VEHICLE ATT	100	70.0	70.7	71.0	69.9	71.0	68.9	69.0	67.0	64.9	65.1	67.8	69.0	67.8	68.2	67.6	72.1	118.4
CONFIG T70	125	70.4	69.0	68.2	69.3	69.4	66.3	67.2	65.7	67.0	65.4	66.0	67.2	67.5	69.0	70.2	117.5	
LOC PTO	160	75.9	73.0	67.7	73.8	74.9	67.9	70.1	73.1	75.7	71.8	70.8	77.0	72.8	73.8	76.4	71.0	123.5
DATE 7/16/74	200	69.0	70.0	69.2	67.9	68.0	67.2	68.0	66.1	64.7	65.0	64.8	66.2	65.8	67.0	66.8	66.9	116.6
RUN 322	250	75.0	75.0	74.8	73.9	74.0	72.3	73.3	70.3	67.9	66.1	67.9	71.8	69.0	69.9	69.8	67.0	121.1
TAPE S3135	315	79.0	77.9	78.1	78.1	80.1	77.0	80.0	79.6	72.7	70.2	77.0	83.2	78.1	79.3	78.9	70.2	128.7
BAR 29.0 HG (97996. N/M2)	400	78.6	73.0	77.0	79.9	81.8	81.8	80.1	68.9	70.7	74.7	73.8	73.0	73.6	76.9	73.7	68.9	127.0
TAMB 69. DEG F (293. DEG K)	500	83.8	75.7	80.7	84.7	85.7	88.0	85.0	80.0	80.7	78.3	81.7	80.0	79.1	81.0	78.7	73.9	132.6
TWET 61. DEG F (289. DEG K)	630	89.2	82.2	85.0	89.5	89.8	95.2	95.5	93.6	94.2	80.4	92.1	92.1	90.4	80.2	88.1	87.3	142.0
HACT11.53 GM/M3 (.01153 KG/M3)	800	93.1	91.0	82.6	81.9	96.2	93.3	101.1	93.9	97.8	92.3	91.7	90.2	94.9	86.9	85.7	88.1	144.9
NFA 9067. RPM (949. RAD/SEC)	1000	83.2	83.9	89.8	92.1	93.2	97.3	98.5	90.6	90.3	86.5	87.3	89.3	91.4	84.3	79.9	79.6	142.0
NFX 8985. RPM (941. RAD/SEC)	1250	89.9	91.9	97.9	99.9	98.0	97.3	98.0	97.2	95.2	90.0	94.0	90.9	86.2	87.2	79.7	81.3	145.4
NFD10628. RPM (1113. RAD/SEC)	1600	96.2	93.1	91.7	94.3	94.0	92.2	91.2	90.4	88.1	85.1	80.2	85.4	82.0	80.9	79.8	74.3	139.6
NO. OF BLADES 44	2000	99.2	96.3	92.8	91.1	92.4	91.5	90.4	90.4	83.1	81.5	82.2	81.4	83.2	79.2	81.9	76.3	138.8
OVERALL MEASURED	2500	91.8	94.0	94.9	89.3	89.8	89.3	87.8	86.2	85.8	82.2	81.8	78.9	80.1	80.2	76.9	73.8	137.4
OVERALL CALCULATED	3150	91.3	92.1	92.1	94.1	91.3	92.2	88.6	82.2	81.2	79.0	80.1	78.2	75.3	75.7	73.1	73.1	138.9
PND <sub>h</sub>	4000	97.1	97.8	92.6	92.9	92.0	88.1	90.5	87.1	85.0	82.0	81.8	79.0	78.9	75.1	74.5	73.8	138.8
	5000	92.3	94.4	93.9	93.4	94.4	91.5	91.7	87.7	86.3	84.3	82.0	80.4	80.3	77.2	76.8	71.3	139.9
	6300	92.3	93.5	91.5	89.4	90.5	88.5	88.7	84.9	85.3	81.4	79.5	77.6	76.5	75.5	75.2	71.6	137.4
	8000	90.4	91.4	91.2	88.3	89.3	87.4	88.4	84.7	81.4	80.5	79.1	77.4	75.2	72.4	71.9	68.6	137.0
	10000	88.5	90.2	86.9	86.4	87.6	85.3	84.5	81.7	80.3	77.3	75.9	73.1	72.0	69.4	69.4	67.4	135.2
	12500	85.0	85.9	83.7	82.0	83.0	82.1	82.1	78.7	76.1	75.2	72.1	71.1	69.2	66.1	66.0	64.4	132.9
	16000	80.8	81.8	79.8	78.3	78.9	78.3	78.1	77.3	72.0	71.2	68.7	69.1	65.9	63.9	64.9	62.0	131.3
	20000	76.7	76.8	75.8	74.1	74.7	73.8	73.9	75.1	67.6	67.9	65.5	66.7	63.6	63.7	64.7	63.7	130.1
		105.2	103.8	104.0	103.9	105.3	104.4	105.0	101.2	101.0	97.3	98.7	98.0	98.0	94.1	93.9	96.3	
		104.9	104.5	103.8	104.1	104.7	104.2	105.7	102.2	102.0	97.0	98.7	97.9	98.5	93.5	93.0	92.6	152.2
		118.1	118.3	116.2	115.7	116.8	115.1	115.7	112.5	110.9	107.4	108.3	107.0	107.2	103.8	103.3	101.3	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 14 HR. 9.7

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PHL		
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.0	79.7	77.3	77.9	77.9	77.0	77.7	77.2	76.8	75.0	74.3	74.0	74.8	75.6	74.5	80.0	126.3	
63	74.7	75.8	76.9	74.0	81.0	76.1	73.2	70.1	70.9	74.0	71.7	72.1	72.0	72.9	72.6	79.3	124.5	
RADIAL 100. FT. (30. M)	80	70.4	72.4	70.3	69.6	70.5	68.8	68.0	70.6	70.6	68.6	66.8	65.9	68.6	65.9	68.6	74.7	119.4
100	70.9	71.9	70.8	69.2	67.9	67.0	68.2	65.3	65.0	65.9	68.7	69.9	67.8	68.9	68.6	73.1	118.4	
VEHICLE ATT	125	67.0	67.1	66.1	67.5	68.3	65.2	67.2	65.4	64.0	64.5	66.1	66.4	68.0	69.0	68.9	71.2	117.0
CONFIG T/0	160	74.9	76.8	75.1	74.0	78.9	74.8	79.0	72.0	75.8	73.0	78.8	71.1	80.9	79.9	76.4	74.0	127.0
LOC PTD	200	66.9	66.8	66.9	67.1	68.0	66.0	67.3	66.0	65.2	65.2	65.2	65.2	67.3	68.0	66.7	68.2	116.6
DATE 7/16/74	250	70.9	70.7	71.7	71.1	71.1	70.2	70.1	68.3	67.0	67.1	67.8	67.2	68.2	69.1	68.7	68.1	119.0
HUN 323	315	71.9	74.7	76.9	78.0	80.1	78.2	76.9	78.4	79.1	74.2	70.0	73.2	73.0	78.0	77.7	72.2	126.9
TAPE S3135	400	70.9	71.6	73.3	75.0	75.0	79.0	76.0	77.0	70.6	73.8	69.7	72.7	73.6	77.8	72.6	72.8	125.0
BAR 29.0 HG	500	79.7	76.6	80.3	85.0	86.0	91.1	87.8	89.9	80.8	85.9	78.7	83.7	84.0	88.9	81.7	85.1	136.5
(97996, N/M2)	630	88.3	88.0	92.9	97.4	88.1	91.3	91.2	93.3	93.2	93.4	93.9	87.4	90.4	87.4	87.0	82.2	141.5
TAMB 69. DEG F	800	82.9	81.1	86.9	90.9	87.0	95.4	96.0	87.4	90.8	87.1	93.6	88.1	83.2	85.2	81.9	87.1	141.1
(293, DEG K)	1000	83.1	83.2	87.2	87.3	90.4	90.2	91.4	85.6	83.1	84.3	83.1	88.2	81.4	81.3	77.1	73.3	136.7
TWET 61. DEG F	1250	88.0	86.0	89.0	90.9	92.3	90.0	90.0	83.3	83.9	82.0	81.0	85.2	82.0	81.2	81.9	76.2	137.1
(289, DEG K)	1600	89.1	88.0	90.7	89.3	88.9	87.3	87.2	84.4	85.0	83.2	80.8	85.3	81.3	82.3	80.8	74.0	136.0
MACT 11.53 GM/M3	2000	95.4	93.0	92.1	90.1	91.1	89.2	87.2	84.9	84.3	82.3	83.2	81.4	81.1	78.7	77.9	74.1	136.9
(.01153 KG/M3)	2500	90.0	92.7	90.6	88.8	90.2	89.0	87.2	86.2	82.8	81.0	80.6	79.4	79.9	78.2	77.6	74.1	136.2
NFA 9504, RPM	3150	88.0	89.2	88.9	87.2	87.2	86.3	86.4	84.6	82.1	80.5	77.0	79.5	76.0	75.3	76.0	71.3	134.4
(995, RAD/SEC)	4000	91.8	90.7	89.8	89.0	85.9	84.3	85.9	83.2	81.9	78.3	77.8	78.2	77.2	74.0	73.8	72.2	134.4
NFK 9418, RPM	5000	87.1	88.3	89.0	87.1	89.2	86.3	86.2	83.7	82.3	80.4	79.0	78.4	78.2	75.3	75.8	69.4	135.0
(986, RAD/SEC)	6300	87.3	88.2	86.3	83.5	85.6	83.3	82.6	79.6	79.5	76.7	77.4	76.5	74.2	74.2	74.8	69.6	132.4
NFD 10628, RPM	8000	85.4	85.2	84.2	82.5	83.2	81.7	82.6	79.7	77.2	75.2	75.1	75.1	73.3	71.4	71.9	67.4	131.4
(1113, RAD/SEC)	10000	83.1	83.1	81.2	79.7	81.2	79.4	78.5	76.4	74.2	72.5	72.1	71.4	69.4	68.2	69.0	65.3	129.4
NO. OF BLADES 44	12500	79.2	79.3	78.1	75.0	77.2	76.1	75.0	74.4	71.2	70.4	70.0	70.2	68.2	64.2	65.9	62.4	127.4
16000	69.8	69.8	69.0	66.8	68.9	66.9	68.9	76.1	63.6	66.0	64.3	65.9	64.8	63.9	64.4	61.7	127.4	
20000	99.9	99.8	100.7	99.9	100.1	100.1	101.2	98.1	97.8	96.3	98.0	95.3	94.9	94.3	93.0	96.0	129.4	
OVERALL MEASURED	100.5	100.1	100.0	99.6	100.2	100.9	100.7	98.1	97.4	96.6	97.8	94.9	94.3	94.3	92.1	91.8	148.5	
OVERALL CALCULATED	113.7	113.4	112.9	112.0	112.3	111.7	111.0	106.9	107.2	106.3	106.2	105.1	104.2	103.5	102.2	100.6		
PND8																		

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.17)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.8	80.9	78.9	80.0	79.8	78.2	78.9	79.1	78.1	77.1	75.7	76.0	75.6	76.5	75.6	79.9	127.7	
63	74.7	75.0	76.8	75.1	81.1	77.2	75.0	71.3	72.1	74.1	73.6	73.1	71.0	73.6	73.9	78.1	124.8	
RADIAL 100. FT. (30. M)	80	70.3	72.7	70.3	69.5	70.8	69.8	70.7	68.7	70.6	70.6	70.3	67.4	66.3	69.1	70.2	74.7	120.0
VEHICLE ATT CONFIG T/O	100	69.9	69.7	69.6	68.9	67.0	66.9	68.2	67.3	66.8	67.0	68.9	68.9	67.0	66.8	67.7	73.1	118.1
LOC PTO	125	68.0	68.1	66.8	67.3	68.4	67.5	68.1	67.5	66.3	65.2	68.3	67.2	68.3	68.1	69.7	72.4	117.9
DATE 7/16/74	160	71.0	69.7	72.3	76.3	72.9	73.1	72.0	74.1	70.9	70.8	71.9	70.0	71.0	73.4	70.8	76.1	122.5
RUN 324	200	73.1	73.0	75.9	79.0	75.2	76.0	74.2	76.2	73.8	72.9	73.6	70.2	71.1	73.9	71.9	77.5	124.6
TAPE S3135	250	75.7	73.8	72.8	71.9	71.1	72.2	72.2	70.1	68.9	67.3	69.6	70.1	70.1	70.9	69.6	70.0	120.6
BAR 29.0 HG	315	69.8	69.8	70.7	71.9	72.9	70.0	70.0	69.0	68.0	68.1	69.8	71.9	72.1	71.7	70.8	69.2	120.6
(97996. N/M2)	400	69.8	71.9	73.5	72.9	72.0	70.0	72.1	68.0	68.1	68.8	70.7	73.0	73.1	72.5	71.7	69.9	121.4
TAMB 69. DEG F	500	71.1	73.7	73.4	73.9	73.8	72.7	72.8	71.9	71.6	70.0	71.3	71.7	75.9	77.4	74.6	72.0	123.6
(293. DEG K)	630	70.9	72.1	74.8	75.1	74.4	71.5	71.4	71.5	70.1	71.3	72.8	71.3	72.1	73.7	73.9	70.4	122.6
TWET 61. DEG F	800	72.9	73.9	74.8	77.9	73.2	72.3	73.9	72.4	72.0	71.9	72.8	72.1	71.9	71.9	72.8	70.1	123.2
(289. DEG K)	1000	73.0	74.2	74.0	75.2	74.2	73.3	73.4	73.5	72.9	72.3	73.8	75.3	73.2	73.0	73.1	70.4	123.9
NFA10750. RPM	1250	73.9	75.1	76.3	79.1	76.2	76.0	75.1	73.2	72.8	74.2	74.6	77.2	74.9	75.5	74.6	70.2	125.7
(1126. RAD/SEC)	1600	72.2	74.1	76.0	76.7	76.3	74.3	75.0	73.3	72.9	72.0	73.7	76.0	75.0	73.7	73.7	68.4	124.8
NFK10653. RPM	2000	73.0	76.0	77.1	78.0	78.4	76.4	75.5	74.2	74.0	75.3	75.1	78.4	75.1	76.9	77.1	72.4	126.8
(1115. RAD/SEC)	2500	73.9	75.7	78.6	80.9	79.9	77.5	78.5	74.3	77.0	75.2	75.5	78.2	75.7	77.8	77.9	72.1	128.0
NFD10628. RPM	3150	73.3	75.0	79.0	79.18	78.2	76.5	78.5	76.2	77.4	74.2	77.0	79.6	78.1	76.8	76.0	71.1	128.2
(1113. RAD/SEC)	4000	76.0	77.2	78.6	80.11	79.0	78.1	78.3	76.0	75.7	77.1	78.0	78.9	80.0	77.9	78.8	73.1	129.1
NO. OF BLADES 44	5000	73.3	75.1	79.2	81.10	80.4	78.3	79.7	77.6	78.2	78.6	78.0	83.4	81.4	77.0	77.9	69.2	130.6
OVERALL MEASURED	6300	73.1	75.4	77.0	77.5	79.7	75.4	75.5	74.4	75.4	76.8	76.3	79.4	75.5	75.2	76.9	70.5	128.1
OVERALL CALCULATED	8000	74.3	75.3	77.2	77.11	77.6	75.3	80.4	78.8	77.6	76.4	77.2	80.6	76.3	74.9	76.8	69.5	129.8
PND8	12500	68.3	68.9	69.0	69.2	71.3	71.0	71.1	71.2	68.9	69.2	71.0	72.1	71.2	67.9	69.0	63.5	125.7
	16000	66.1	66.1	66.7	67.2	68.1	67.0	69.4	73.3	65.8	67.1	68.0	69.9	68.1	65.6	66.9	63.1	124.7
	20000	62.7	63.7	64.6	62.8	65.0	64.7	64.8	74.0	63.6	64.7	63.9	66.7	64.8	65.5	65.7	62.9	125.6
		91.8	92.1	91.2	92.2	92.1	90.7	92.4	91.4	90.8	90.3	91.1	92.9	91.3	90.8	91.3	97.0	
		87.2	88.5	89.8	91.0	90.7	88.8	89.4	88.4	87.9	87.7	88.2	90.4	88.9	88.5	88.9	87.2	
		99.6	101.0	102.7	103.8	103.3	101.6	102.3	100.5	100.8	100.7	101.4	104.3	102.6	101.5	101.9	97.7	140.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
FREQ. 50	78.9	79.8	77.8	79.1	79.0	78.1	78.0	78.0	77.9	77.0	74.2	75.9	75.7	76.5	75.6	81.6	127.3
63	74.2	73.9	76.2	74.1	80.3	75.8	73.0	70.1	70.8	74.0	70.7	71.3	73.1	73.0	72.9	80.7	124.5
80	70.7	72.7	71.3	70.7	71.5	69.2	68.8	68.3	70.6	69.6	67.0	67.7	66.6	68.5	67.4	76.5	119.8
RADIAL 100. FT. (30. H)	100	71.1	71.2	70.8	69.12	67.0	68.0	68.2	65.6	64.9	67.2	68.5	68.9	67.0	67.9	69.6	74.4
VEHICLE ATT	125	68.4	67.3	66.7	66.15	68.3	66.0	67.2	65.0	66.0	65.4	65.9	67.1	68.3	68.3	70.0	72.8
CONFIG T/0	160	80.0	79.1	70.7	72.8	80.7	77.8	78.1	68.8	79.7	74.8	79.5	77.8	81.7	80.8	79.7	76.4
LOC PTO	200	67.2	67.2	66.6	67.13	68.1	69.8	67.3	65.1	66.1	65.1	65.7	66.9	68.2	68.8	67.0	69.6
DATE 7/16/74	250	71.0	71.2	70.8	71.1	71.0	69.9	71.2	69.0	67.0	67.3	66.9	68.0	69.2	70.0	68.8	68.7
RUN 325	315	77.2	72.8	74.0	76.12	81.9	81.1	84.4	83.1	81.9	81.1	77.5	80.2	79.1	79.0	76.9	73.7
TAPE S3135	400	70.2	72.9	76.7	73.14	78.1	77.2	74.3	72.8	71.8	74.0	67.5	73.9	75.2	75.1	70.7	70.6
HAR 29.0 HG	500	75.6	80.7	87.7	80.10	90.6	90.2	85.8	84.8	82.6	86.2	73.5	85.7	87.0	85.5	77.6	80.7
(97996. N/M2)	630	90.2	86.1	82.9	86.9	85.1	87.3	93.2	90.3	90.0	89.3	80.6	88.5	86.2	90.0	89.1	84.0
TAMB 69. DEG F	800	80.2	84.2	83.8	89.12	91.8	92.8	91.1	91.8	89.8	93.1	82.7	87.3	83.1	88.1	80.0	81.0
(293. DEG K)	1000	84.1	82.3	85.2	84.16	86.1	86.3	88.3	87.1	87.1	83.4	81.0	81.2	80.4	79.0	77.1	74.1
TWET 61. DEG F	1250	84.2	86.0	89.8	87.14	86.2	88.8	88.2	85.0	81.1	81.3	80.6	82.2	83.4	79.0	82.0	76.8
(289. DEG K)	1600	87.3	89.1	89.8	89.16	86.2	87.0	85.4	83.9	81.3	83.2	79.7	81.1	82.6	79.0	80.8	72.0
HACT 11.53 GM/M3	2000	89.2	91.5	89.7	84.17	87.3	85.1	86.4	83.5	81.3	79.5	79.9	80.5	81.3	79.1	77.1	75.0
(.01153 KG/M3)	2500	89.0	89.0	87.9	86.15	85.7	86.7	83.2	81.8	81.8	79.3	76.5	79.2	78.1	77.8	77.8	73.5
NFA 9579. RPM	3150	86.2	87.5	87.2	85.15	85.3	83.9	84.5	82.1	79.1	78.6	74.7	79.4	75.4	74.9	74.8	71.0
(1003. RAD/SEC)	4000	89.2	90.2	88.0	86.14	83.9	83.0	83.3	81.1	79.3	77.3	75.6	77.2	74.1	72.6	73.6	70.8
NFK 9492. RPM	5000	86.6	86.6	87.3	85.17	87.2	84.0	84.6	80.5	80.2	78.5	77.1	77.6	77.4	74.0	74.8	69.2
( 994. RAD/SEC)	6300	86.4	86.4	84.9	84.11	83.2	81.2	81.5	77.5	78.7	75.4	73.9	75.6	73.6	74.1	75.2	78.3
NFD 10628. RPM	8000	84.6	84.6	84.0	82.10	81.1	79.1	80.6	78.2	75.3	74.4	72.9	75.1	72.4	70.3	73.2	66.9
(1113. RAD/SEC)	10000	82.5	82.3	79.1	78.7	78.2	77.4	76.5	74.0	73.0	70.5	69.9	70.1	69.2	67.1	66.0	65.0
NO. OF BLADES 44	12500	77.1	78.4	75.7	73.6	75.1	73.7	75.0	72.1	70.8	69.4	67.5	70.1	68.0	64.2	66.0	64.0
	16000	73.1	73.8	71.7	70.5	70.9	69.7	71.2	75.0	68.0	67.1	65.4	69.0	65.8	63.9	65.0	65.7
	20000	68.9	69.0	67.7	66.12	66.7	65.7	69.0	76.7	67.6	65.9	62.2	66.0	62.9	64.5	65.4	66.6
OVERALL MEASURED	99.0	99.2	98.7	97.5	98.8	98.0	99.1	98.2	96.8	96.5	92.5	95.0	94.0	94.9	93.8	98.8	127.5
OVERALL CALCULATED	98.4	98.9	98.7	97.7	98.6	98.7	98.9	97.3	96.0	96.7	90.8	94.5	93.7	94.5	92.6	90.6	125.7
PNDH	111.5	112.3	111.2	109.9	110.3	109.7	109.3	107.0	105.8	105.9	101.8	104.5	103.6	103.5	102.6	99.2	125.9
																	127.7



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	79.8	80.8	78.6	79.1	79.8	77.8	79.2	77.8	77.7	77.3	75.6	76.0	75.9	76.6	75.3	81.0	127.6
63	74.8	74.7	76.7	74.4	79.8	77.0	72.9	70.1	71.9	74.3	72.5	73.9	72.0	73.0	73.5	78.9	124.5
RADIAL 100. FT. ( 30. M)	80	70.7	72.6	71.3	70.0	70.5	68.3	69.7	68.7	70.5	69.9	68.0	67.5	66.6	68.6	68.2	75.4
VEHICLE ATT	100	70.2	68.8	69.8	68.1	66.6	66.8	67.2	66.7	66.6	66.3	67.4	68.7	67.9	67.9	67.5	73.7
CONFIG T70	125	68.5	67.0	66.0	67.4	68.0	67.1	68.4	67.2	65.3	65.5	65.5	67.0	68.3	67.0	69.0	72.0
LOC PTO	160	70.9	70.8	72.7	77.3	72.6	72.6	71.8	72.8	70.6	70.0	70.4	69.7	70.0	72.4	70.6	76.4
DATE 7/16/74	200	74.2	74.0	76.0	79.3	75.7	76.0	73.9	76.1	72.9	73.0	72.6	70.6	71.2	73.6	70.9	78.1
RUN 326	250	68.9	69.8	69.6	69.2	68.8	68.0	69.2	66.9	65.7	66.2	66.5	68.1	70.2	70.0	68.7	68.9
TAPE S3135	315	69.2	69.0	71.7	71.4	71.9	69.9	70.1	69.1	68.0	67.5	68.6	71.9	72.3	72.0	70.7	70.8
BAR 29.0 HG	400	70.0	72.9	74.0	74.4	71.8	70.0	72.1	67.9	68.1	68.2	69.6	73.0	73.3	72.8	70.6	69.7
(97996, N/M2)	500	71.0	74.8	73.3	73.1	73.7	71.7	72.0	71.8	70.9	70.3	72.6	74.9	77.6	75.5	73.4	123.5
TAMB 69, DEG F	630	70.1	73.2	74.7	75.4	73.9	71.3	71.2	70.4	69.9	70.6	71.6	71.0	72.4	73.0	74.1	72.1
(293, DEG K)	800	72.2	73.0	75.9	77.2	73.7	72.8	73.0	72.0	71.3	70.6	71.9	71.1	71.9	72.6	70.9	122.9
TWET 61, DEG F	1000	73.1	72.9	74.7	75.3	74.2	73.0	73.4	74.0	73.0	72.4	71.8	74.2	73.5	72.9	73.1	71.9
(289, DEG K)	1250	72.9	75.0	76.7	78.3	76.1	75.9	75.3	73.1	73.1	74.4	72.7	76.2	75.3	75.8	74.6	71.0
HACT11.53 GM/M3	1600	73.1	74.0	76.7	77.6	75.6	73.9	74.4	72.8	72.2	72.4	72.9	76.2	75.3	74.0	73.7	69.1
(.01153 KG/M3)	2000	73.1	76.1	78.1	78.6	79.1	75.9	75.1	72.9	74.3	73.5	73.7	77.5	74.5	76.0	77.1	73.1
NFA10752, RPM	2500	74.1	76.9	77.7	81.2	80.0	76.8	76.9	73.9	76.9	75.0	74.6	78.1	76.2	77.8	78.0	72.9
(1126, RAD/SEC)	3150	73.4	74.1	79.8	80.6	79.3	76.0	80.3	77.2	77.1	75.2	74.9	80.3	77.3	75.9	75.8	71.1
NFK10655, RPM	4000	77.1	77.9	80.0	81.1	80.0	78.8	77.2	75.7	76.0	76.3	75.9	79.1	80.3	78.0	77.8	74.8
(1116, RAD/SEC)	5000	75.5	76.0	79.0	80.7	80.4	77.4	78.5	77.4	78.5	78.5	76.1	83.2	81.6	77.2	78.4	70.0
NFD10628, RPM	6300	73.6	76.1	77.0	77.6	80.3	75.4	75.3	73.4	77.3	75.4	75.0	77.6	76.3	75.1	76.2	71.3
(1113, RAD/SEC)	8000	73.7	76.0	77.1	77.8	77.2	75.0	78.6	78.3	75.3	76.6	78.1	81.3	77.4	74.2	77.2	70.2
NO. OF BLADES 44	10000	71.3	72.3	73.0	73.5	74.2	72.6	73.4	72.3	72.0	71.6	71.9	74.1	72.2	69.9	71.1	67.2
OVERALL MEASURED	16000	68.1	68.9	69.8	70.3	72.0	69.7	71.3	71.1	69.1	69.4	68.7	72.2	71.3	67.0	68.9	65.1
OVERALL CALCULATED	20000	66.1	66.1	66.7	67.1	68.6	65.9	69.2	71.6	67.9	67.2	66.9	70.0	68.9	65.8	66.9	64.6
PNDB	100.1	101.3	103.2	104.4	103.5	101.6	102.6	100.5	100.7	100.3	99.6	104.1	102.8	101.4	101.4	98.8	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	78.8	81.1	77.7	79.0	78.7	77.8	78.1	77.7	76.8	75.9	73.4	74.8	74.9	75.6	74.7	81.6	126.9
63	74.8	75.1	76.9	74.4	79.9	76.8	72.9	70.8	70.8	74.3	71.7	72.1	72.2	73.7	72.9	80.7	124.7
RADIAL 100. FT. (30. M)	80	71.4	72.6	71.4	69.9	70.6	69.4	68.8	67.5	70.5	69.6	66.9	66.4	66.0	68.5	68.2	76.4
VEHICLE ATT CONFIG T/O	100	71.7	72.1	71.7	69.1	67.9	69.0	65.4	66.7	68.2	67.8	69.8	68.9	68.9	67.9	70.6	119.0
LOC PTO	125	68.2	68.4	67.9	67.7	67.4	66.0	67.4	65.3	65.3	66.2	65.0	67.1	68.6	68.2	69.8	117.5
DATE 7/16/74	160	73.6	77.1	72.7	73.0	78.7	75.8	78.0	71.8	76.8	74.8	78.4	72.9	80.7	79.6	77.6	127.1
RUN 328	200	67.2	67.2	66.7	67.5	68.8	66.0	68.1	65.9	65.8	65.2	64.6	66.0	67.9	67.7	66.7	116.9
TAPE S3135	250	70.9	72.1	70.7	71.2	70.8	69.9	71.2	68.0	67.0	67.1	66.4	66.0	69.2	70.0	68.8	119.2
BAR 29.0 HG (97996. N/M2)	315	72.0	75.3	76.7	78.6	79.2	77.1	80.1	78.1	79.1	75.2	71.5	73.8	75.2	78.0	76.9	127.2
TAMB 69. DEG F (293. DEG K)	400	70.0	72.1	74.9	75.2	75.0	78.0	75.3	75.8	72.1	75.1	68.6	73.1	75.9	76.9	71.9	124.9
TWET 61. DEG F (289. DEG K)	500	78.8	76.1	83.6	85.2	85.5	89.7	86.8	87.7	82.8	87.8	77.1	83.6	87.0	88.5	80.5	136.1
HACT 11.53 GM/M3 (.01153 KG/M3)	630	89.4	91.4	90.9	84.4	87.1	89.1	90.4	94.1	91.3	92.5	88.9	87.4	87.2	90.0	87.1	140.3
NFA 9508. RPM (995. RAD/SEC)	800	83.3	83.4	89.7	90.5	90.8	96.1	93.2	87.9	90.8	90.1	92.3	82.2	82.6	87.8	80.2	140.7
NFK 9422. RPM (986. RAD/SEC)	1000	82.6	84.4	88.0	88.7	88.1	90.1	89.3	86.8	85.3	83.7	80.9	85.3	80.5	80.0	75.1	136.1
NFD 10628. RPM (1113. RAD/SEC)	1250	85.2	86.4	91.1	89.13	92.9	91.3	90.1	87.2	83.2	83.6	80.4	84.2	81.1	81.1	81.1	137.6
NO. OF BLADES 44	1600	86.4	89.3	90.1	89.15	89.1	87.1	86.2	85.0	84.2	83.5	77.8	85.2	81.4	83.1	79.2	135.8
OVERALL MEASURED	2000	94.2	94.6	90.9	87.4	91.0	90.1	88.6	84.3	83.1	79.5	77.7	80.2	80.3	78.4	77.1	136.6
OVERALL CALCULATED	2500	90.8	92.1	87.9	88.12	88.7	89.8	86.1	83.9	82.6	80.4	78.4	79.2	80.1	78.8	78.0	135.4
PNDM	3150	88.2	88.4	88.0	87.14	85.0	85.4	85.5	84.2	82.1	80.4	75.8	79.2	76.2	75.9	75.8	133.7
	4000	91.1	90.1	88.6	89.1	84.8	84.8	84.1	82.9	81.0	77.4	76.7	77.1	77.0	73.9	73.8	133.7
	5000	87.4	87.7	89.0	87.4	88.1	85.2	85.4	82.4	82.2	79.8	76.6	78.3	77.5	74.1	75.1	134.3
	6300	87.3	88.6	85.3	83.8	85.3	82.5	82.4	79.3	79.2	76.8	75.0	77.4	77.5	74.1	75.0	132.2
	8000	85.2	86.5	84.1	82.5	82.1	80.3	82.4	79.2	77.2	75.4	73.6	75.5	74.1	71.5	72.2	131.1
	10000	83.1	83.7	80.3	79.7	80.4	78.2	78.5	74.3	73.9	72.6	69.9	71.2	70.2	68.1	68.2	128.6
	12500	79.0	79.2	76.7	75.4	75.8	75.1	75.0	72.1	70.8	70.4	68.4	70.0	69.0	65.0	66.7	126.7
	16000	75.1	75.9	72.0	71.3	72.0	72.0	72.0	72.8	68.9	67.0	65.8	67.8	66.9	64.7	65.6	126.0
	20000	69.9	71.0	69.3	67.1	67.8	67.9	69.9	72.6	67.8	65.9	64.2	66.7	66.0	65.6	65.6	126.8
	100.2	100.4	99.7	99.1	100.0	100.9	99.1	97.8	96.8	97.3	95.4	95.2	94.1	95.8	93.7	98.7	
	99.9	100.7	100.2	99.1	99.9	100.9	99.5	98.2	96.8	96.8	95.2	94.1	93.6	95.2	91.7	91.6	148.0
	113.0	113.6	112.4	111.8	111.7	111.9	110.2	108.4	106.9	106.1	104.3	104.8	104.1	104.0	102.0	100.2	

MODEL SOUND PRESSURE LEVELS (5V, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PML	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	79.1	80.1	77.7	78.9	78.8	76.5	77.8	77.7	76.8	76.1	73.3	74.7	74.7	75.8	74.7	81.7	126.8
	63	75.1	76.2	77.0	75.4	80.1	75.7	73.1	70.9	71.0	74.2	71.4	71.8	73.2	73.0	73.6	79.9	124.6
RADIAL 100. FT.	80	71.5	72.7	71.4	69.9	70.4	68.3	68.7	67.3	69.4	68.8	67.2	66.7	66.5	68.4	67.4	77.4	119.6
( 30. M)	100	72.1	71.8	71.8	69.0	66.9	68.2	69.0	65.9	67.0	68.3	68.3	69.7	68.1	67.7	69.7	75.4	119.1
VEHICLE ATT	125	68.1	69.1	68.0	67.3	67.2	66.0	68.4	66.0	66.0	66.3	65.6	68.3	68.4	68.0	70.0	74.0	118.0
CONFIG T70	160	75.9	77.8	72.8	72.8	78.6	76.8	80.2	69.6	75.5	75.2	77.3	78.6	81.7	79.6	78.7	74.6	127.7
LOC PTD	200	67.1	67.1	66.8	67.4	68.8	66.9	68.3	65.8	65.1	65.4	64.8	67.1	68.0	67.7	66.9	69.8	117.0
DATE 7/16/74	250	71.2	71.0	71.2	71.1	70.9	69.9	71.3	70.9	67.9	68.1	67.3	69.1	69.2	70.0	68.7	69.7	119.7
RUN 329	315	79.0	76.0	77.7	76.3	83.1	83.1	85.1	86.1	83.9	82.3	79.7	80.2	79.0	80.1	77.8	75.9	132.3
TAPE 53135	400	70.0	73.9	77.0	76.5	81.1	79.0	76.3	77.0	73.8	76.2	68.4	74.9	75.9	73.0	70.9	69.9	126.1
BAR 29.0 HG	500	72.6	83.0	87.8	88.1	92.6	91.7	86.9	88.8	86.7	87.2	75.2	84.7	87.5	83.5	74.3	76.4	137.5
(97996, N/M2)	630	86.1	82.3	85.0	89.4	84.9	83.1	93.4	88.2	88.1	84.4	77.9	87.2	86.0	88.3	86.1	84.1	137.7
TAMB 67. DEG F	800	85.0	79.0	79.8	88.4	90.8	91.0	95.4	90.9	89.8	92.2	79.3	89.1	84.1	84.8	78.7	84.9	140.1
(293. DEG K)	1000	83.4	84.1	83.2	84.5	87.3	85.1	88.5	87.4	87.1	82.4	79.7	83.3	80.4	76.2	76.8	73.8	134.9
TWET 60. DEG F	1250	87.3	88.1	88.1	86.5	83.9	87.9	89.6	83.0	79.2	80.5	77.8	80.0	81.1	79.9	80.1	75.9	134.5
(289. DEG K)	1600	88.0	90.0	91.2	89.6	85.2	86.3	86.6	83.1	80.0	80.5	77.4	81.3	81.2	80.3	78.2	71.9	134.6
MACT11.22 GM/M3	2000	86.4	92.1	88.2	85.7	86.3	86.2	87.6	83.1	81.3	79.8	79.0	81.4	79.5	79.3	76.8	73.7	134.3
(.01122 KG/M3)	2500	87.1	90.0	87.8	86.4	86.9	86.9	85.2	80.8	80.7	78.1	76.7	78.1	78.0	77.7	77.7	72.5	133.6
NFA 9578. RPM	3150	86.2	87.8	87.2	85.6	84.3	85.1	84.5	81.4	79.1	77.9	73.6	78.4	75.6	74.1	75.0	70.8	132.4
(1003. RAD/SEC)	4000	89.0	88.8	86.8	86.2	83.8	83.1	82.0	80.9	77.8	76.3	74.3	77.0	74.9	72.7	73.6	70.6	131.8
NFK 9505. RPM	5000	85.5	86.2	87.2	84.8	86.4	83.2	83.6	80.3	79.2	78.5	75.8	78.2	76.3	74.2	74.7	69.0	132.5
( 995. RAD/SEC)	6300	85.6	86.5	84.3	82.9	82.2	80.3	80.7	77.3	77.5	74.8	74.0	78.3	75.3	73.1	74.2	69.3	130.5
NFD10628. RPM	8000	83.5	83.5	82.4	80.8	80.2	78.9	80.8	77.3	75.4	74.7	72.8	77.7	73.5	70.0	71.9	66.8	129.6
(1113. RAD/SEC)	10000	81.5	81.4	79.1	77.7	78.2	76.3	76.5	73.4	72.0	71.4	69.5	71.3	69.4	68.0	68.2	64.9	127.2
NO. OF BLADES 44	12500	77.5	78.1	75.0	73.1	74.1	73.1	73.4	71.0	69.9	69.3	67.3	69.0	67.3	64.8	66.9	63.0	125.2
	16000	74.1	73.8	72.0	70.1	71.1	69.0	71.3	73.0	67.9	68.2	65.4	67.9	66.0	64.2	65.9	62.1	125.3
	20000	69.0	68.8	67.6	66.1	66.7	65.6	69.1	74.7	67.7	66.8	62.3	66.0	62.8	63.8	65.7	63.5	126.7
OVERALL MEASURED		97.9	99.2	98.7	98.2	98.7	97.8	100.6	97.2	95.8	96.4	91.4	95.2	94.0	93.8	93.0	98.7	
OVERALL CALCULATED		97.6	99.0	98.3	97.9	98.6	98.3	100.3	97.0	95.7	95.6	89.3	94.6	93.6	93.0	90.3	90.9	
PND8		111.1	111.8	110.7	109.9	110.0	109.6	109.8	106.7	105.2	105.2	100.9	104.4	103.1	102.5	101.5	99.4	146.8

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	78.7	79.7	77.7	78.2	77.7	77.5	78.1	76.9	76.6	75.2	73.2	74.8	76.0	76.6	74.7	81.9	126.7
63	74.0	73.2	76.7	73.1	80.8	77.0	72.0	71.0	70.2	74.0	70.4	71.1	71.0	72.1	71.8	79.8	124.3
RADIAL 100, FT. (30, M)	80	70.7	71.8	70.3	69.9	70.3	69.6	67.5	69.6	68.9	67.3	66.4	65.7	67.5	68.3	77.3	119.7
VEHICLE ATT	100	70.8	71.8	71.7	71.3	70.8	68.6	68.9	66.8	65.7	67.3	66.5	69.9	70.1	70.8	68.7	74.8
CONFIG T/O	125	69.0	69.2	68.0	69.3	68.9	67.1	67.2	65.0	65.2	65.5	63.8	68.5	68.2	69.1	73.0	117.7
LOC PTD	160	74.8	68.7	67.5	71.9	68.0	71.7	69.2	66.9	67.7	67.3	67.2	72.0	74.5	74.6	73.5	120.9
DATE 7/16/74	200	69.2	69.3	68.7	68.4	69.0	67.9	68.0	66.2	64.2	64.5	63.4	65.8	65.3	67.0	66.1	68.7
RUN 330	250	74.9	74.3	74.0	73.1	74.1	72.0	73.0	71.1	67.8	66.2	67.4	72.9	70.2	71.3	69.7	69.0
TAPE	315	76.9	78.0	76.2	76.1	81.0	78.0	82.2	81.1	72.8	69.3	77.7	85.0	81.3	81.8	79.8	72.6
BAR 29.0 HG (97996, N/M2)	400	78.9	73.3	78.9	81.4	79.8	82.0	80.0	70.2	73.7	75.4	73.7	71.0	75.4	77.1	72.7	70.9
TAMB 67, DEG F (293, DEG K)	500	82.9	74.9	82.4	86.0	83.7	86.7	85.0	78.7	80.6	80.1	80.2	79.0	80.9	80.8	80.6	78.5
TWET 60, DEG F (289, DEG K)	600	91.2	89.0	82.7	89.6	89.3	95.3	94.2	92.3	91.0	82.6	91.0	92.2	92.5	86.1	92.9	90.9
MACT 11.22 GM/M3 (.01122 KG/M3)	1000	81.3	84.4	92.2	95.6	98.3	97.1	96.1	90.3	91.3	86.7	88.6	89.0	89.2	87.1	84.0	78.1
NFA 9070, RPM (950, RAD/SEC)	1250	89.2	91.1	99.3	97.3	96.0	95.9	96.3	96.0	92.9	89.3	92.9	87.3	87.4	78.9	82.9	80.8
NFK 9001, RPM (942, RAD/SEC)	1600	97.2	92.3	94.0	95.3	95.0	91.2	89.4	87.3	84.2	86.3	79.8	83.1	82.3	79.0	77.9	74.9
NFD 10628, RPM (1113, RAD/SEC)	2000	99.1	95.4	95.1	93.5	94.3	91.4	91.5	89.1	85.3	84.4	80.7	84.4	85.3	79.1	80.9	75.9
NO. OF BLADES 44	2500	91.9	94.1	95.8	91.2	91.8	89.1	87.1	85.1	85.0	82.2	80.3	82.1	79.9	78.8	77.7	72.7
OVERALL MEASURED	3150	93.4	94.2	94.1	92.6	95.2	89.5	91.5	87.3	85.1	82.7	79.9	80.4	77.5	75.9	76.6	73.1
OVERALL CALCULATED	4000	96.1	96.0	93.9	92.3	92.0	88.8	91.2	85.8	86.0	81.3	79.4	79.9	77.9	74.6	74.7	74.7
PNDH	5000	93.5	93.3	94.3	92.7	94.2	91.4	91.5	87.5	87.4	85.5	81.9	80.5	80.6	78.4	76.8	72.2
	6300	92.3	93.6	91.2	90.8	91.5	89.3	88.7	84.6	85.3	81.9	79.1	78.7	77.4	76.4	74.9	72.5
	8000	91.2	92.4	91.1	87.7	89.2	86.3	84.5	85.5	82.1	80.5	78.0	78.3	75.4	72.1	71.9	70.0
	10000	90.3	90.5	87.5	85.6	86.3	85.0	85.4	81.2	80.2	78.8	74.9	74.1	72.2	70.2	70.1	68.3
	12500	85.9	86.2	83.7	82.4	82.9	82.8	82.3	79.4	77.2	75.6	71.7	71.2	70.0	66.8	67.9	66.0
	16000	82.8	82.8	80.6	79.3	80.0	78.1	79.0	77.3	73.8	72.0	68.6	69.1	67.2	64.8	64.8	65.9
	20000	77.7	77.8	76.8	75.2	75.5	73.8	74.8	75.7	69.9	69.2	65.3	66.7	66.2	65.7	65.5	66.8
		104.9	103.9	104.7	104.1	105.1	103.1	104.9	101.2	100.0	96.4	97.5	97.5	98.9	93.8	95.6	95.6
		105.0	104.0	105.0	104.1	105.1	103.5	105.2	101.5	101.0	96.4	97.5	97.5	98.9	93.8	95.6	95.6
		117.8	117.4	117.2	115.9	117.5	114.4	115.3	111.5	110.5	108.0	107.1	106.9	107.6	103.5	105.0	103.7

MUDEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RAD/ANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	73.8	74.9	73.8	74.1	73.5	72.8	72.9	72.6	72.8	71.1	69.2	70.9	70.0	69.4	70.5	77.2	122.1	
63	72.0	71.2	75.8	71.4	79.8	76.0	72.3	66.8	68.1	73.1	69.6	70.1	67.3	69.0	66.9	75.4	122.6	
RADIAL 100, FT. ( 30. M)	80	66.7	67.5	65.3	65.6	64.6	64.3	65.6	64.4	64.2	64.8	64.3	64.6	61.8	62.5	63.2	73.3	115.4
VEHICLE ATT	100	67.8	66.9	66.8	65.5	65.9	64.9	65.0	63.0	65.0	65.0	65.4	66.0	64.9	63.7	63.6	71.7	115.5
CONFIG T/D	125	69.1	70.1	69.1	72.3	70.0	68.0	71.5	65.1	67.2	63.5	64.7	68.3	65.4	63.9	65.0	69.6	117.8
LOC PTO	160	64.7	64.7	65.7	64.1	63.5	62.8	64.9	62.9	62.7	61.2	60.3	63.7	62.7	63.8	62.7	67.4	113.4
DATE 7/16/74	200	70.1	71.0	69.9	68.3	67.0	66.6	66.3	63.8	62.0	62.5	59.6	61.0	61.2	63.7	62.7	64.9	114.7
RUN 331	250	76.7	76.9	74.7	74.2	74.2	71.7	72.2	69.1	68.8	66.1	64.5	65.1	66.8	65.9	66.9	66.3	120.1
TAPE S3135	315	74.2	75.1	74.9	74.3	75.0	72.0	72.2	69.9	67.0	68.1	65.4	66.0	65.9	65.7	65.9	65.9	120.2
BAR 29.0 HG	400	74.2	74.2	73.7	72.1	71.9	70.7	70.2	67.9	66.0	65.4	63.6	66.0	65.9	65.8	67.0	64.9	118.7
(98030, N/M2)	500	74.9	75.0	75.7	74.8	74.6	71.6	70.1	68.8	66.8	67.1	64.3	67.8	64.9	66.7	67.5	66.7	120.1
TAMB 64, DEG F	630	83.1	81.3	80.2	83.3	83.1	75.9	78.5	76.1	74.0	78.6	71.8	75.4	72.1	72.0	73.9	71.1	127.7
(291, DEG K)	800	81.0	82.2	85.7	84.2	78.1	81.1	81.3	75.9	77.9	71.4	74.3	73.9	78.3	69.9	73.6	69.9	128.8
THET 59, DEG F	1000	81.1	82.1	84.1	82.4	80.3	82.1	80.5	78.4	73.9	71.5	70.6	73.2	73.3	71.1	72.1	69.4	128.2
(288, DEG K)	1250	86.2	90.4	88.0	82.3	86.1	85.5	82.4	81.2	79.0	77.3	75.8	74.2	79.3	74.8	72.7	70.3	132.1
HACT 11.36 GM/M3	1600	83.9	89.1	89.8	83.3	85.9	83.2	82.5	78.3	75.9	76.5	73.5	74.3	75.1	72.0	73.0	68.1	131.5
(.01136 KG/M3)	2000	86.3	85.2	87.2	85.6	84.0	84.0	83.7	79.4	75.9	73.2	72.5	74.1	73.3	72.2	71.8	69.3	131.0
NFA 7475, RPM	2500	88.9	89.3	87.7	86.3	85.7	84.8	83.2	80.2	78.1	75.8	72.5	73.8	72.0	71.9	71.6	69.1	132.0
( 783, RAD/SEC)	3150	89.2	90.2	89.2	86.3	85.9	85.0	83.4	81.1	77.3	74.5	71.5	73.1	71.3	69.9	70.0	68.1	132.5
NFK 7439, RPM	4000	93.1	93.8	91.8	89.2	87.0	84.7	84.2	80.9	78.8	75.0	73.9	73.8	72.8	70.7	70.6	69.8	134.5
( 779, RAD/SEC)	5000	92.4	93.3	93.0	89.6	92.5	89.1	89.6	84.2	82.4	79.5	76.7	78.6	76.5	73.2	73.8	69.1	137.6
NFD 10628, RPM	6300	91.6	93.4	91.0	89.7	90.1	87.4	85.8	81.2	81.2	76.6	73.7	74.2	72.4	71.0	70.2	69.4	136.0
(1113, RAD/SEC)	8000	92.2	92.5	91.1	88.3	89.2	87.4	87.4	84.3	80.5	78.4	74.8	74.3	72.2	69.9	68.9	68.0	136.6
NO. OF BLADES 44	10000	91.6	91.2	89.1	87.6	88.9	87.1	86.5	82.3	80.1	76.5	72.7	72.3	70.1	68.9	67.8	68.0	136.5
OVERALL MEASURED	12500	88.2	88.3	85.7	85.0	85.9	84.8	84.4	80.7	78.2	75.3	70.6	70.1	68.1	65.9	65.6	65.1	135.2
OVERALL CALCULATED	16000	83.8	84.9	81.5	81.2	81.8	80.8	82.0	78.7	74.6	72.2	67.4	68.2	66.8	64.5	63.4	63.5	133.8
PND6	20000	79.6	78.7	77.4	75.7	76.6	75.6	75.9	74.6	70.6	67.7	62.2	63.9	64.8	64.4	63.2	63.3	131.3
		101.2	102.2	100.7	99.1	99.0	96.8	96.4	93.2	92.1	89.8	87.3	89.1	88.2	86.9	88.0	93.5	
		101.0	102.0	100.6	98.3	99.0	97.1	96.5	92.8	90.6	88.3	85.6	88.5	86.4	83.8	84.1	84.4	145.9
		114.2	115.0	113.8	111.3	112.4	109.9	109.7	105.5	103.5	101.0	98.5	99.9	98.6	96.3	96.6	94.9	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
	(0,)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
FREQ. (0,)	50	77.7	78.8	77.9	79.9	80.0	79.7	79.0	77.8	77.8	75.8	75.4	78.7	76.0	80.0	78.6	79.9	128.1
	63	71.9	70.2	75.7	71.3	79.9	76.1	71.3	66.3	69.0	73.1	69.4	68.9	66.2	68.8	69.9	75.6	122.6
RADIAL 100, FT, (30, M)	80	67.7	68.5	68.6	66.8	66.6	64.9	64.7	63.8	65.6	65.9	64.2	62.7	61.7	63.7	64.2	73.2	115.8
VEHICLE ATT CONFIG T70	100	68.8	69.1	69.7	67.3	67.7	64.0	64.3	64.8	62.9	67.5	64.5	67.1	66.9	65.8	67.4	71.9	116.6
LOC PTO	125	71.2	68.2	69.2	69.4	70.2	67.0	63.3	66.5	69.2	64.3	62.6	68.5	70.1	69.0	68.0	70.8	117.9
DATE 7/16/74	160	70.0	66.0	68.6	68.2	70.8	67.6	63.9	66.7	70.1	65.0	63.2	67.9	69.7	69.8	67.6	68.4	117.9
HUN 333	200	67.0	67.1	67.0	65.4	66.0	64.1	64.5	62.1	62.1	61.3	60.7	62.9	62.9	64.2	62.9	65.9	113.7
TAPE S3135	250	71.1	71.0	72.1	70.4	70.9	69.8	70.0	69.2	65.0	65.3	64.7	68.2	65.0	67.8	64.6	66.8	118.2
BAR 29.0 HG	315	70.9	70.0	71.7	71.4	72.0	71.0	70.3	69.8	66.0	66.3	65.4	69.2	67.1	68.9	66.7	66.6	119.1
(98030, N/M2)	400	77.9	79.2	76.0	60.4	78.1	76.1	79.5	73.8	80.0	80.2	76.8	80.3	78.4	75.8	73.7	74.8	128.3
TAMB 64, DEG F (291, DEG K)	500	82.6	77.7	75.7	75.1	86.9	85.5	80.2	78.7	75.5	80.1	82.1	81.7	80.7	81.7	83.4	82.7	132.0
IMET 50, DEG F (288, DEG K)	630	85.3	83.4	88.4	81.3	89.1	90.0	85.4	88.2	90.0	86.6	91.9	85.3	86.1	87.1	86.8	87.8	138.4
MACT 11.36 GM/M3 (.01136 KG/M3)	800	82.1	83.2	88.1	84.4	80.2	88.1	86.2	87.8	88.8	86.2	90.4	83.0	87.3	87.8	83.7	83.6	137.3
NFA 8543, RPM (894, RAD/SEC)	1000	86.3	90.4	91.1	90.6	87.3	92.3	95.4	94.0	90.4	91.3	89.5	88.4	88.5	83.1	82.1	82.1	141.1
NFK 8502, RPM (890, RAD/SEC)	1250	93.8	92.2	94.8	97.3	90.2	92.2	96.2	97.9	95.2	96.4	92.7	90.3	91.0	84.9	85.0	80.8	144.4
NFD 10628, RPM (1113, RAD/SEC)	1600	90.1	93.2	92.9	89.6	89.2	90.9	91.5	88.9	86.2	84.5	80.8	81.3	85.3	78.3	80.9	79.8	138.1
NO. OF BLADES 44	2000	93.2	91.4	92.9	89.7	88.2	90.3	90.3	91.0	89.2	86.4	82.6	83.2	82.1	80.2	80.3	74.7	138.4
OVERALL MEASURED	2500	90.9	93.1	91.7	91.3	89.8	90.0	89.0	87.1	86.8	83.0	78.6	78.9	81.0	77.1	75.8	73.8	137.4
OVERALL CALCULATED	3150	91.1	92.4	92.2	89.7	89.0	88.9	89.4	86.3	82.2	80.3	75.8	79.1	77.2	74.1	74.7	72.0	136.5
PND8	4000	95.1	96.2	93.0	91.3	89.8	86.8	87.4	85.0	84.1	80.3	77.4	78.9	76.9	73.9	73.8	72.8	137.1
	5000	93.2	94.4	94.4	92.8	93.3	91.0	91.7	87.2	86.4	83.4	79.9	80.5	79.6	76.1	75.9	71.1	139.5
	6300	93.5	94.6	92.4	90.9	91.2	89.1	89.5	84.4	85.3	81.5	79.2	78.2	78.6	76.3	74.9	72.2	138.1
	8000	92.4	92.3	91.0	89.5	90.1	88.1	90.7	86.1	83.2	82.7	77.7	78.1	76.2	73.0	72.0	69.8	138.1
	10000	91.3	90.5	89.3	87.5	89.0	87.0	87.4	83.1	82.0	79.6	75.6	74.1	72.2	70.2	69.8	68.9	136.8
	12500	87.1	87.0	84.8	83.4	84.2	83.7	83.4	80.1	78.1	77.2	71.5	71.8	69.9	66.8	66.6	65.8	134.2
	16000	82.6	82.7	81.3	80.3	79.8	78.7	80.3	77.7	74.5	72.8	68.4	68.5	66.9	64.7	64.5	65.7	132.5
	20000	77.7	77.7	76.4	74.9	75.4	73.4	73.9	74.6	70.6	68.5	64.9	66.3	65.5	65.4	65.4	66.2	130.5
	OVERALL MEASURED	102.9	104.0	103.1	102.3	101.2	101.8	102.5	102.1	99.9	99.2	98.5	95.9	96.0	95.0	94.6	97.0	150.7
	OVERALL CALCULATED	103.2	103.8	103.4	102.5	101.2	101.4	102.5	101.8	99.9	99.4	98.1	95.5	96.2	93.7	93.0	92.3	150.7
	PND8	116.5	117.2	115.7	114.5	114.4	113.4	113.9	112.1	110.4	109.7	106.9	105.8	106.1	102.8	102.4	101.4	150.7

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	80.9	81.8	80.7	81.2	80.5	78.7	79.0	78.1	77.7	75.1	72.4	73.7	77.9	81.0	79.5	80.5	128.3	
63	76.1	77.0	78.7	76.4	80.8	77.1	73.3	71.8	72.0	73.4	69.6	70.0	73.1	76.0	74.8	77.6	124.9	
RADIAL 100. FT. ( 30. M)	80	67.5	69.5	68.4	67.9	68.3	66.5	65.6	64.6	70.6	67.7	64.0	65.3	67.1	64.2	65.9	63.8	117.3
VEHICLE ATT	125	68.0	67.1	66.2	65.6	66.0	65.3	65.3	64.0	69.1	63.4	64.6	65.2	66.2	66.0	65.2	68.0	116.1
CONFIG T/O	160	75.8	75.0	73.5	69.9	69.9	72.9	72.0	73.5	74.5	69.9	74.4	75.9	68.9	74.6	75.5	73.3	116.3
LOC PTD	200	64.8	64.9	65.7	65.4	66.7	64.8	66.0	63.8	69.9	64.2	60.7	63.9	64.2	65.2	64.6	65.8	123.3
DATE 7/16/74	250	71.0	70.9	71.9	72.3	73.8	72.0	72.4	70.0	71.0	68.3	66.7	72.1	70.3	68.7	66.8	67.8	115.5
MUN 334	315	77.1	78.9	81.9	83.1	85.8	82.8	84.4	81.9	78.8	79.6	77.4	85.0	81.2	79.8	79.0	74.9	120.7
TAPE S3135	400	79.1	72.0	78.9	82.7	77.0	83.9	78.2	78.0	77.0	74.2	71.4	73.8	79.2	72.7	70.4	71.7	132.0
BAR 29.0 HG	500	83.6	75.7	83.7	87.0	81.8	88.8	82.9	84.8	80.8	82.2	80.3	81.8	82.9	78.6	82.6	81.5	128.0
(98030. N/M2)	630	89.2	85.4	92.8	90.4	92.0	94.1	92.6	95.3	88.9	95.4	93.7	94.2	89.4	88.0	96.9	94.9	133.6
TAMB 64. DEG F	800	87.4	88.2	83.7	91.3	93.8	93.1	98.1	97.1	91.8	88.4	86.7	92.9	95.8	78.7	86.9	91.0	143.6
(291. DEG K)	1000	88.3	87.4	90.0	94.6	95.3	96.0	94.6	93.0	88.0	88.4	86.7	87.4	82.4	82.0	79.9	80.9	143.5
TWET 59. DEG F	1250	91.6	96.3	100.1	100.3	96.1	90.9	93.1	92.0	87.8	88.5	87.4	88.0	87.1	85.1	88.1	77.0	141.4
(288. DEG K)	1600	97.6	93.3	95.9	96.6	93.2	88.1	90.4	86.2	83.9	84.3	81.8	85.3	81.0	78.9	79.1	75.7	143.0
HACT 11.36 GM/MS	2000	97.7	93.4	94.4	93.7	94.2	91.0	89.6	87.1	85.0	83.4	81.9	83.4	82.2	79.0	79.0	76.8	139.1
(.01136 KG/MS)	2500	92.4	95.1	95.8	94.3	91.0	89.9	88.0	85.8	85.6	82.3	80.9	80.9	81.0	78.0	78.1	74.8	139.0
NFA 982. RPM	3150	92.3	93.4	94.8	92.3	92.0	90.1	88.3	86.0	84.0	83.3	79.8	80.4	78.6	76.1	75.9	73.8	138.5
( 951. RAD/SEC)	4000	97.1	96.2	93.7	92.4	89.9	88.2	89.0	86.8	84.0	81.1	79.3	80.4	78.4	74.8	74.7	74.5	138.1
NFK 9039. RPM	5000	92.7	93.3	95.0	91.6	93.0	89.5	89.6	86.4	85.8	84.4	80.7	80.4	79.6	76.1	76.0	70.9	137.9
( 946. RAD/SEC)	6300	91.9	93.6	90.4	88.9	89.2	86.3	86.5	83.2	83.4	79.8	78.8	78.5	77.7	75.2	75.0	72.2	138.8
NFD 10628. RPM	8000	90.5	90.6	89.4	88.8	87.2	85.3	86.4	83.1	80.1	79.9	76.8	76.1	74.1	71.2	71.1	68.3	136.2
(1113. RAD/SEC)	10000	88.7	89.2	86.8	84.5	84.1	83.2	82.5	79.1	78.0	75.3	72.4	72.4	70.3	68.9	68.0	67.1	135.2
NO. OF BLADES 44	12500	84.3	85.2	82.9	80.3	81.0	80.8	80.1	77.1	74.9	73.2	70.4	71.1	68.8	65.7	65.7	64.6	131.2
16000	81.0	81.0	78.8	77.2	77.6	75.9	75.1	74.8	71.5	70.1	67.0	68.0	67.0	63.5	64.4	62.5	129.6	
20000	76.7	76.5	75.4	72.9	74.6	73.3	71.6	74.6	70.3	66.9	64.9	66.5	66.6	63.7	64.5	67.1	129.7	
OVERALL MEASURED	103.9	104.0	105.7	105.2	103.8	102.8	102.1	101.8	98.7	98.5	97.5	98.8	97.9	92.7	98.7	98.7	131.5	
OVERALL CALCULATED	104.8	104.3	105.6	105.1	103.9	102.5	103.0	102.0	97.9	98.7	96.9	98.8	98.2	93.0	98.4	97.1		
PND8	118.1	117.5	117.9	116.5	115.5	113.8	113.3	111.4	109.2	108.4	106.5	107.7	107.5	102.6	106.8	105.0		

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 14 HR. 10.3

MODEL SOUND PRESSURE LEVELS (SW, DEG, F, 70 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
	50	78.7	79.7	76.4	77.11	76.7	75.6	75.8	75.7	75.8	77.3	72.4	73.6	73.7	74.4	75.6	79.6	125.6
	63	76.1	76.0	76.7	73.13	79.9	75.8	72.0	68.1	70.8	76.4	69.4	70.2	69.2	71.0	72.7	77.6	123.8
RADIAL 100. FT.	80	68.5	69.4	69.2	68.18	67.4	65.4	66.1	65.8	67.3	72.6	65.8	64.4	63.6	65.3	65.3	73.5	117.7
( 30. M)	100	67.8	67.9	67.8	58.13	64.0	63.6	63.4	63.2	63.7	71.3	64.5	65.1	64.2	64.9	66.0	72.8	116.7
VEHICLE ATT	125	67.3	67.4	65.8	65.12	64.3	64.1	65.7	63.5	62.2	71.3	64.8	65.2	66.1	66.1	66.3	71.0	116.6
CONFIG T/D	160	77.7	78.7	73.6	71.14	68.0	75.6	72.9	73.9	67.7	74.9	77.4	75.9	76.1	77.9	78.6	78.6	125.5
LOC PTD	200	65.3	65.2	64.9	65.13	65.9	63.9	65.2	63.9	62.9	70.1	62.7	64.9	64.0	66.0	64.8	67.0	115.5
DATE 7/16/74	250	69.9	70.2	69.6	70.11	68.1	67.1	68.3	66.1	65.6	71.3	63.7	65.9	66.2	67.9	66.0	67.6	117.7
RUN 335	315	72.0	77.8	77.7	81.14	78.9	78.9	79.4	77.2	78.9	81.4	73.5	74.9	75.2	75.7	70.7	74.7	128.0
TAPE S3135	400	77.9	72.2	78.9	82.11	77.9	77.2	81.4	79.3	77.9	72.2	66.7	72.8	78.2	74.0	76.2	68.7	127.5
BAR 29.0 HG	500	85.9	76.8	87.6	89.19	85.5	85.7	89.7	87.8	86.9	79.3	75.4	80.8	84.9	81.8	83.8	74.5	135.6
(98030. N/M2)	630	91.2	86.1	88.1	89.17	96.1	87.5	95.2	95.4	96.2	92.4	87.8	93.4	87.2	91.3	89.1	88.9	143.0
IAMB 64. DEG F	800	89.2	83.0	85.9	71.12	90.8	91.4	98.3	92.0	93.8	92.4	87.4	90.8	89.9	84.0	76.6	86.6	142.2
(291. DEG K)	1000	86.0	86.4	91.0	93.14	93.0	94.3	94.3	93.5	91.1	91.4	87.9	87.2	86.0	83.3	83.0	80.9	141.3
WET 59. DEG F	1250	91.0	92.2	93.0	95.12	92.9	88.7	90.1	88.0	85.2	85.5	84.6	83.9	83.1	83.1	86.0	75.8	138.9
(288. DEG K)	1600	96.0	92.1	92.9	93.16	89.9	89.3	89.3	88.1	86.0	84.3	81.6	81.0	81.3	79.2	79.9	77.9	137.8
MACT11.15 GN/M3	2000	96.4	95.1	94.0	92.16	90.2	90.5	90.4	86.4	84.3	84.4	80.6	83.4	81.4	78.1	79.9	75.9	138.2
(.01115 KG/M3)	2500	92.8	95.8	92.6	93.13	91.0	90.2	86.2	85.8	84.0	85.0	80.3	81.7	80.1	78.0	78.1	74.8	137.8
NFA 9240. RPM	3150	91.3	92.2	90.9	89.15	90.0	87.6	87.2	85.3	83.1	84.5	77.7	80.1	77.2	75.1	75.1	72.9	136.2
( 967. RAD/SEC)	4000	93.8	93.9	90.7	90.14	87.7	85.2	86.0	84.8	82.9	82.3	78.6	79.2	78.2	74.7	73.7	72.8	135.8
NFK 9200. RPM	5000	90.6	91.5	91.1	89.15	90.4	87.7	88.3	84.4	84.4	84.7	78.8	80.3	79.3	75.1	76.2	70.1	136.9
( 963. RAD/SEC)	6300	89.3	90.6	88.1	85.17	86.4	84.6	84.4	81.4	81.5	81.5	76.8	77.6	77.4	74.3	74.3	71.0	134.1
NFD10628. RPM	8000	88.5	88.6	86.7	83.15	84.3	82.4	84.4	81.1	78.4	80.6	74.8	75.1	73.4	70.1	70.9	67.9	133.1
(1113. RAD/SEC)	10000	86.3	86.1	83.1	81.15	82.2	80.8	80.4	76.3	75.9	77.7	71.5	72.3	69.4	67.9	69.0	66.1	131.0
NO. OF BLADES 44	12500	81.9	82.1	79.9	78.12	77.9	78.4	77.0	73.7	72.8	75.4	68.6	70.1	68.3	65.1	65.6	65.0	129.0
	16000	78.1	78.8	75.8	74.13	72.8	72.8	73.2	72.6	69.9	72.0	65.4	68.0	66.9	63.9	64.9	65.6	127.4
	20000	73.9	74.0	72.2	70.19	69.4	68.4	70.0	71.4	68.4	68.7	63.0	65.5	65.7	63.7	64.3	66.5	127.2
OVERALL MEASURED		103.2	103.0	102.1	102.1	101.8	99.8	103.1	99.8	99.8	98.4	95.6	96.9	95.0	94.7	95.1	97.7	
OVERALL CALCULATED		103.4	103.0	102.2	102.8	102.3	100.5	102.9	100.6	100.3	98.8	94.8	97.3	95.2	94.3	93.6	92.9	
PNDH		116.1	116.3	114.0	114.9	113.6	112.2	112.3	110.1	109.4	109.1	104.5	106.5	104.6	103.8	103.0	101.7	



MUDEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	78.3	79.5	77.1	78.1	78.0	76.5	76.8	76.8	76.5	74.9	72.9	74.2	74.8	75.8	75.8	79.9	126.1
63	76.0	75.8	77.2	75.2	80.1	75.9	72.8	70.3	71.8	73.9	69.9	71.1	71.3	74.0	74.1	77.9	124.2
RADIAL 100. FT, ( 30. M )	80	67.7	69.2	68.6	66.8	66.7	65.5	65.6	68.5	67.7	65.5	64.9	64.7	65.6	66.9	73.8	117.2
VEHICLE ATT	125	66.7	66.0	64.8	64.5	66.3	63.0	65.1	62.3	63.4	63.3	64.4	64.3	67.6	67.3	70.5	115.9
CONFIG T70	160	77.1	77.7	74.4	74.3	78.4	73.5	74.9	71.8	70.8	76.1	77.1	66.2	80.3	79.8	81.3	126.8
LOC PTO	200	65.2	65.0	65.1	66.1	67.0	64.0	66.1	64.0	63.8	64.0	63.0	65.0	63.3	66.9	69.2	115.6
DATE 7/16/74	250	69.1	67.9	68.2	68.3	68.1	66.2	68.0	65.0	65.9	66.0	64.3	66.1	66.2	67.1	70.2	116.9
RUN 336	315	74.2	76.7	78.3	78.5	76.1	71.8	80.2	74.2	79.3	80.3	70.0	73.1	71.2	77.1	76.1	126.8
TAPE S3135	400	70.3	70.8	78.2	72.1	73.2	77.2	74.7	72.2	76.0	71.0	71.2	70.2	73.9	76.9	74.3	124.2
BAR 29.0 HG	500	74.0	77.7	87.2	77.2	82.1	87.9	84.9	82.1	85.9	81.8	81.0	77.0	83.8	87.6	78.1	134.0
(98030, N/M2)	630	85.5	88.7	89.6	88.3	84.4	89.2	89.1	88.5	88.9	90.5	85.2	86.6	85.5	91.0	90.6	138.7
TAMB 64. DEG F	800	82.1	81.6	85.4	89.3	92.3	96.0	90.0	92.0	85.9	89.0	91.2	77.2	86.3	87.8	79.5	140.1
(291, DEG K)	1000	82.4	82.9	86.7	90.6	89.5	89.1	84.3	86.2	83.3	81.2	83.2	83.2	81.3	83.0	78.5	135.6
TWET 59. DEG F	1250	84.2	85.7	93.2	92.2	94.0	89.7	86.1	84.1	82.8	83.0	81.2	84.0	80.4	81.7	80.1	137.5
(288, DEG K)	1600	88.4	90.7	89.3	89.5	88.2	84.1	84.1	84.4	85.2	82.3	77.3	82.4	80.4	80.1	79.6	134.6
MACT11.15 GM/M3	2000	94.5	92.8	90.6	87.4	90.4	89.0	89.4	86.5	85.2	82.3	79.3	79.5	79.4	78.4	78.4	136.5
(.01115 KG/M3)	2500	89.0	90.4	89.5	87.4	88.2	88.0	85.9	84.0	83.6	80.9	80.1	79.0	79.3	78.8	79.0	135.0
NFA 9405. RPM	3150	87.4	86.9	89.3	86.6	86.2	85.0	85.0	83.4	81.0	80.3	76.6	79.3	77.6	75.2	75.2	135.6
( 985, RAD/SEC)	4000	91.3	90.4	88.2	88.1	85.0	83.0	83.0	82.1	81.1	78.3	77.9	77.1	75.8	73.8	74.0	133.2
NFK 9364. RPM	5000	87.4	87.0	88.2	85.7	88.2	85.2	85.2	81.5	81.1	79.5	77.2	79.5	78.3	73.9	75.2	133.9
( 980, RAD/SEC)	6300	86.4	87.0	84.6	83.5	84.4	82.1	81.5	79.4	80.2	77.6	75.5	78.6	78.8	75.3	75.6	131.9
NFD10628. RPM	8000	84.6	83.8	83.2	81.4	82.3	79.1	81.2	78.4	76.3	75.2	73.1	75.5	74.2	71.3	71.8	130.3
(1113, RAD/SEC)	10000	82.6	82.0	80.3	78.7	79.3	78.0	77.0	74.1	73.1	71.5	70.4	69.4	67.2	68.3	66.5	128.0
NO. OF BLADES 44	12500	78.3	78.1	76.0	74.1	75.0	73.9	73.8	72.2	70.0	70.1	68.2	69.2	68.2	64.9	66.1	125.8
	16000	73.9	73.6	72.1	71.2	71.1	69.6	70.7	71.1	66.7	67.4	65.1	67.9	67.1	63.1	65.0	124.9
	20000	68.9	68.2	67.9	66.0	67.6	66.6	66.4	72.8	63.5	65.9	62.4	66.9	65.8	63.4	64.7	125.8
OVERALL MEASURED		99.4	99.4	99.9	99.4	100.2	100.1	98.2	97.0	96.1	96.0	94.9	93.4	94.4	95.8	94.4	96.4
OVERALL CALCULATED		99.5	99.6	100.2	99.3	100.1	100.1	97.6	97.0	95.4	95.4	94.4	92.6	93.1	95.4	93.2	90.3
PWDB		112.8	112.5	112.9	111.1	111.3	110.4	109.6	107.5	106.7	105.2	104.0	103.7	103.5	104.2	103.3	99.3

ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (0,1)	(0,17)	(0,35)	(0,52)	(0,70)	(0,87)	(1,05)	(1,22)	(1,40)	(1,57)	(1,75)	(1,92)	(2,09)	(2,27)	(2,44)	(2,62)	( )	
50	70.1	79.9	77.9	78.1	77.8	76.7	77.7	77.0	76.9	75.3	74.0	74.9	74.9	75.7	74.9	80.2	126.4
63	78.1	76.8	79.2	76.4	81.3	77.9	74.0	73.2	72.0	74.1	76.2	73.0	75.2	79.9	74.3	81.5	126.6
RADIAL 100. FT. ( 30. H)	80	68.7	70.4	69.9	68.0	68.5	67.2	68.5	66.6	69.4	68.9	67.7	65.6	65.7	66.5	67.9	73.7
VEHICLE ATT	100	68.1	67.9	69.1	67.2	65.2	65.7	65.3	65.0	64.2	64.1	65.5	67.2	65.5	67.0	67.2	72.3
CONFIG T-0	125	68.4	66.0	65.3	65.7	67.5	64.0	65.1	64.2	64.1	64.6	65.3	65.5	67.5	67.2	68.3	72.4
LOC PTD	160	75.0	68.8	76.3	75.3	77.2	73.5	75.8	75.8	73.9	77.3	79.1	76.8	76.0	78.0	72.1	71.1
DATE 7/16/74	200	76.3	75.6	77.1	75.4	75.1	72.6	73.0	71.2	68.8	70.0	71.1	69.0	69.1	70.9	69.3	68.1
HUN 337	250	72.9	73.6	74.0	74.1	73.2	71.9	71.8	69.1	67.1	67.3	67.4	68.4	68.1	68.8	68.2	68.3
TAPE S3138	315	72.3	72.9	78.2	76.3	78.2	72.8	68.2	72.9	69.8	71.2	71.2	72.8	75.2	73.7	69.1	70.1
BAR 29.0 HG	400	72.2	72.5	74.2	73.0	71.9	68.9	68.9	67.1	67.6	67.0	68.0	70.1	71.1	71.0	69.2	68.3
(98030. N/M2)	500	72.7	71.7	75.8	78.2	75.0	73.4	70.6	59.7	74.6	68.8	70.0	71.0	79.2	80.0	75.9	71.0
AMH 64. DEG F	630	72.4	73.1	75.3	75.3	74.2	73.1	72.2	70.0	70.1	69.4	72.4	71.2	70.3	72.0	73.2	71.4
(291. DEG K)	810	72.2	72.3	76.3	76.5	73.2	73.7	75.0	72.8	71.0	72.9	70.9	73.2	70.0	71.9	73.9	71.2
WET 59. DEG F	1000	72.5	73.3	74.4	76.7	74.1	72.8	73.1	71.4	72.9	71.5	72.1	75.4	73.4	72.0	72.5	70.4
(208. DEG K)	1250	74.3	74.9	77.0	78.5	78.2	73.8	73.8	73.0	71.9	72.2	73.1	77.2	77.3	75.7	75.2	71.9
FACT 11.15 GM/M3	1600	72.5	73.9	77.1	77.6	75.3	74.0	73.8	74.2	72.1	71.1	73.0	75.4	74.3	73.9	73.4	68.1
(.01115 KG/M3)	2000	74.3	74.9	77.5	78.9	78.5	76.0	76.1	73.3	74.1	72.3	74.3	77.2	74.4	76.0	76.6	71.9
NFA10149. RPM	2500	74.0	77.1	78.1	80.1	79.0	76.8	75.9	73.7	73.9	74.1	73.8	78.0	77.1	76.9	77.2	72.1
(1062. RAD/SEC)	3150	73.5	74.9	78.5	78.4	77.5	75.1	76.0	75.3	73.2	72.2	74.4	78.3	79.6	74.9	76.2	72.2
NFK10101. RPM	4000	76.1	77.7	78.0	79.2	78.3	76.9	75.9	74.0	74.9	74.2	77.2	78.0	79.3	75.6	76.2	73.8
(1058. RAD/SEC)	5000	73.4	75.3	79.6	78.7	78.6	77.3	78.1	75.4	76.0	76.3	75.4	81.2	79.6	77.3	76.5	69.3
NFD10620. RPM	6300	73.5	75.2	75.5	76.8	77.6	74.0	75.2	73.3	73.2	72.4	74.5	76.5	74.6	73.4	75.5	70.5
(1113. RAD/SEC)	8000	74.3	73.8	76.5	76.8	76.2	75.0	79.4	79.4	73.9	75.2	80.4	81.5	75.5	72.2	74.3	69.5
NO. OF BLADES 44	10000	76.3	70.9	72.5	72.6	73.2	70.1	72.2	76.4	71.2	70.3	76.3	72.4	71.4	69.1	70.4	66.3
16000	12500	67.2	67.9	68.2	66.3	70.2	68.7	69.0	69.2	67.9	68.0	67.4	70.1	68.4	65.2	67.2	64.2
OVERALL MEASURED	16000	64.9	65.5	66.0	65.4	66.9	64.8	67.7	72.0	67.8	65.9	65.2	69.0	68.1	64.1	66.2	65.1
OVERALL CALCULATED	20000	62.7	62.4	64.1	61.9	64.9	64.3	63.8	72.8	67.9	63.9	63.6	67.7	66.7	63.6	66.8	66.8
PND8	100.0	101.0	102.9	103.3	102.6	100.6	101.0	99.5	99.0	98.9	100.4	102.9	102.4	100.5	100.4	97.7	139.4

MUDEL SOUND PRESSURE LEVELS (5V, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)
50	79.1	80.6	77.6	79.3	78.9	77.7	78.7	78.0	76.8	80.1	74.8	76.0	75.8	75.8	75.7	80.9	127.6
63	82.3	82.7	82.2	79.2	82.1	75.9	73.8	72.2	78.2	82.1	78.2	81.3	75.1	75.8	77.1	79.1	128.7
RADIAL 100. FT. (30. M)	80	70.6	72.4	71.9	69.9	69.6	67.5	68.4	67.8	69.6	77.8	68.8	69.9	66.9	67.4	68.6	74.5
VEHICLE ATT	125	67.6	66.3	66.4	66.4	67.3	65.2	66.1	65.2	64.3	76.5	64.5	66.4	67.3	67.3	69.2	71.4
CONFIG T/O	160	72.1	71.5	74.2	76.2	71.9	72.8	71.9	74.9	71.7	77.4	71.9	69.1	68.4	71.9	70.0	75.0
LOC PTO	200	74.0	73.6	76.5	78.7	74.1	75.6	74.3	78.0	73.9	77.2	73.9	70.2	68.4	72.0	71.1	77.0
DATE 7/16/74	250	66.4	66.7	67.3	67.4	67.2	66.7	66.9	65.2	65.0	75.4	69.9	67.1	67.2	67.9	68.2	69.0
HUN 338	315	67.2	67.9	70.2	70.3	71.0	68.9	69.0	67.9	67.0	75.3	68.8	71.2	72.1	70.0	70.3	69.3
TAPE S3135	400	68.2	70.9	72.3	72.2	71.4	68.9	71.0	67.9	66.8	75.2	70.1	72.9	73.0	70.8	71.2	69.1
BAR 29.8 HG	500	70.9	73.5	74.8	73.9	75.0	69.7	69.9	69.1	69.7	76.1	69.9	70.0	76.1	76.9	73.1	73.0
(98030, N/M2)	630	69.3	72.0	73.4	74.3	72.4	69.0	69.5	69.5	68.9	74.2	70.1	69.2	71.5	73.0	72.5	70.6
TAMP 63, DEG F	800	72.1	72.6	75.2	76.4	72.1	70.9	71.8	71.3	72.0	75.3	71.0	71.0	72.1	70.7	72.3	71.1
(290, DEG K)	1000	73.2	73.1	75.2	75.3	73.4	72.9	73.3	73.5	73.2	75.5	73.2	75.1	74.3	72.9	73.5	71.4
TWFT 58, DEG F	1250	74.2	75.9	77.1	78.2	77.2	77.9	76.8	73.3	72.7	76.4	72.8	77.3	76.2	76.9	75.1	71.2
(287, DEG K)	1600	73.4	73.9	76.9	77.4	76.0	73.9	74.1	74.1	72.9	74.4	72.2	76.1	75.1	74.1	73.2	69.2
HACT10.73 G4/M3	2000	74.2	79.1	76.9	79.6	82.4	75.1	77.2	75.5	75.9	77.4	75.4	79.3	75.5	77.2	77.2	72.2
(.01073 KG/M3)	2500	73.8	77.7	78.4	83.3	80.9	78.8	80.6	77.2	77.8	79.1	76.1	80.2	77.2	78.7	79.1	73.1
NFA10748, RPM	3150	74.2	77.2	80.3	81.6	80.1	79.2	79.1	78.5	75.2	77.5	80.2	80.5	80.4	79.1	78.4	72.4
(1125, RAD/SEC)	4000	78.1	78.9	81.1	80.4	80.1	78.7	79.1	78.2	75.6	78.3	80.1	81.1	82.0	80.1	79.1	75.1
NFK10712, RPM	5000	75.3	76.0	81.6	80.6	81.3	79.0	80.1	79.7	79.4	80.4	80.4	84.5	82.5	79.1	78.4	71.2
(1122, RAD/SEC)	6300	74.3	76.1	76.4	77.8	79.7	76.2	76.4	73.7	75.1	77.9	75.5	78.7	75.6	77.2	76.0	71.5
NFD10628, RPM	8000	75.6	77.1	78.9	79.6	79.8	78.3	82.2	81.5	77.6	81.6	80.4	83.5	78.4	76.3	76.3	71.5
(1113, RAD/SEC)	10000	71.5	72.1	73.5	74.4	75.3	72.9	75.0	73.6	73.2	75.5	73.2	75.5	73.2	72.0	72.9	68.2
NO. OF BLADES 44	12000	68.4	69.0	70.1	69.2	71.3	70.0	72.0	71.1	70.1	73.2	69.0	73.0	71.0	68.2	69.4	65.0
	16000	66.0	66.1	67.1	66.1	68.3	66.8	69.1	72.1	67.8	70.0	66.9	70.2	70.0	65.7	67.0	66.1
	20000	64.3	62.9	64.2	63.3	66.0	64.8	67.6	73.0	68.6	68.9	63.1	67.0	67.0	64.6	65.8	66.9
OVERALL MEASURED		92.2	92.0	91.3	93.5	93.3	90.8	92.3	92.5	90.7	95.4	92.2	93.3	92.0	91.3	92.0	96.3
OVERALL CALCULATED		88.5	89.8	90.9	91.6	91.4	89.1	90.0	89.3	88.2	91.7	89.2	91.7	90.0	89.3	88.9	87.8
PWDL		100.7	102.1	103.9	105.0	104.0	102.2	102.8	101.8	101.1	103.8	102.9	105.2	103.8	102.8	102.2	98.9

MODEL SOUND PRESSURE LEVELS (5% DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
FRIG.	50	74.8	74.6	74.0	75.2	74.8	73.5	73.5	72.8	72.8	75.8	70.8	71.8	71.1	71.8	72.5	80.2	123.7
	63	72.3	70.8	75.9	72.3	80.0	75.8	71.5	66.9	68.2	76.2	69.9	70.0	67.3	66.9	67.5	77.0	123.2
RADIAL 100. FT. ( 30. M )	80	66.0	66.3	64.9	65.8	65.6	64.3	66.2	64.7	63.8	73.6	64.8	64.6	61.9	62.8	63.8	74.5	117.4
VEHICLE ATT	100	68.3	67.1	67.3	69.7	66.2	64.9	64.0	63.4	64.8	74.0	65.0	67.3	66.3	66.9	67.2	72.9	117.9
CONFIG T70	125	68.4	67.1	68.3	69.6	68.4	68.4	71.9	66.5	65.4	72.5	63.6	68.5	66.6	64.1	68.9	70.2	118.6
LOC PTO	160	64.2	63.7	65.2	65.0	65.1	63.8	64.7	63.9	62.0	72.1	60.9	64.1	63.0	64.1	64.0	68.1	115.7
DATE 7/16/74	200	70.2	69.8	70.3	68.4	68.2	66.8	66.6	64.0	62.9	73.0	61.0	62.2	62.3	63.9	63.4	66.3	116.9
HUN 339	250	76.3	75.8	75.2	74.4	74.0	72.8	71.5	70.4	68.0	72.1	64.3	65.2	67.4	66.8	68.2	68.1	120.7
TAPE 53136	315	74.2	73.8	75.0	75.4	75.0	71.8	71.5	70.0	67.9	71.9	64.2	65.9	65.2	66.0	65.9	66.3	120.6
BAR 29.0 HG (98030. N/M2)	400	73.1	71.9	73.0	72.0	71.1	70.7	69.0	69.2	66.7	71.9	64.3	65.1	66.9	65.0	66.2	66.3	119.1
TAMP 63. DEG F (290. DEG K)	500	76.1	74.7	74.9	74.2	73.8	71.7	71.7	68.7	67.4	71.3	65.7	65.9	66.0	66.6	67.9	65.8	120.3
INLET 58. DEG F (287. DEG K)	600	80.2	83.8	87.1	83.2	79.0	81.9	82.1	77.3	78.9	73.2	75.2	75.0	79.3	72.0	74.2	69.0	129.6
MACT 10.73 GM/M3 (.01073 KG/M3)	800	81.4	82.2	84.5	82.5	81.4	82.2	82.3	78.3	75.2	74.5	71.0	73.3	74.1	72.2	72.4	68.2	128.9
NFA 7470. RPM ( 782. RAD/SEC)	1000	86.3	89.8	89.1	83.3	84.9	83.8	83.0	80.1	79.9	77.4	75.1	74.0	78.2	73.9	73.5	71.2	132.1
NFK 7445. RPM ( 779. RAD/SEC)	1250	86.2	86.8	90.1	84.4	86.0	82.9	80.2	78.3	76.0	77.3	73.1	74.3	76.1	71.1	72.6	68.3	131.5
NFH 10628. RPM (1113. RAD/SEC)	1500	86.3	86.2	86.4	85.6	84.5	84.0	83.3	80.3	77.2	76.6	73.4	74.4	74.3	72.9	72.6	69.5	131.2
NO. OF BLADES 44	2000	89.0	88.9	88.2	86.3	86.1	84.7	83.0	80.1	78.7	78.2	73.0	72.8	72.8	72.6	72.1	68.9	132.2
	2500	89.4	88.8	90.2	86.4	86.1	83.9	83.4	80.3	78.1	78.3	72.1	74.0	71.4	69.9	70.3	67.4	132.6
	3000	94.0	92.7	92.0	90.1	87.2	83.9	83.9	81.9	79.1	78.1	73.9	74.1	73.0	69.9	70.2	70.1	134.6
	3500	92.3	92.9	93.4	90.4	92.5	88.2	89.2	84.5	83.2	83.3	77.2	78.5	76.1	74.1	74.3	69.3	137.7
	4000	91.4	92.0	91.7	89.8	89.5	86.4	85.2	81.4	81.4	79.5	73.9	73.4	71.6	70.4	70.4	69.6	135.8
	4500	91.3	90.9	90.6	88.6	89.3	87.0	87.6	83.5	80.4	80.5	74.4	74.3	72.3	69.3	69.7	68.3	136.4
	5000	90.3	90.2	89.9	88.4	88.5	86.2	85.2	81.6	80.2	79.5	72.1	71.5	70.2	68.4	68.4	67.5	136.2
	5500	87.3	87.0	86.4	84.3	86.4	84.1	83.1	79.2	77.0	78.2	70.2	69.2	67.3	65.1	65.6	66.3	134.7
	6000	82.7	82.8	81.3	81.1	82.0	79.8	80.2	77.4	73.9	75.0	66.1	66.1	66.2	63.8	63.1	66.2	133.1
	6500	77.8	77.6	76.0	75.2	76.0	73.7	73.9	75.7	69.8	70.2	63.0	67.9	65.3	65.0	64.2	67.1	130.8
OVERALL MEASURED		101.1	100.7	101.3	98.2	99.0	96.7	96.1	94.0	92.1	93.0	87.9	89.0	88.1	87.1	89.1	97.3	
OVERALL CALCULATED		100.9	101.1	101.2	98.7	93.9	96.5	96.1	92.6	91.0	91.2	85.8	86.4	86.6	84.1	84.6	89.7	145.8
P.W.D.		114.6	114.2	114.2	111.9	112.3	109.5	109.4	105.6	104.1	104.6	98.8	99.8	98.7	96.7	97.1	95.3	

REPRODUCIBILITY OF THE  
 ORIGINAL DATA IS POOR

## MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	76.9	77.8	77.8	78.3	78.8	77.7	77.6	77.0	75.8	75.8	76.0	77.0	74.8	77.8	78.1	80.1	127.0
63	72.1	69.7	76.0	71.1	80.0	79.7	71.0	66.3	68.6	75.1	69.2	70.0	66.1	67.8	69.3	76.1	122.8
RADIAL 100. FT. ( 30. M)	80	66.8	67.4	66.8	65.8	65.6	63.6	64.9	64.7	64.7	70.7	63.4	61.8	63.4	64.8	72.9	116.2
VEHICLE ATT	109	67.5	66.9	67.1	65.3	66.2	63.7	63.1	63.3	63.1	70.9	63.0	68.0	66.4	66.8	65.4	116.7
CONFIG T/O	129	72.2	67.1	66.4	68.4	72.2	67.2	63.4	67.4	69.0	70.4	62.3	68.6	70.3	69.2	68.5	118.6
LOC PTO	169	71.9	66.8	67.1	68.1	71.9	66.6	64.7	67.1	69.7	71.1	63.1	67.9	70.1	69.8	68.0	118.6
DATE 7/16/74	200	66.2	65.8	66.2	65.5	65.9	64.7	65.1	63.4	62.0	69.2	62.0	63.4	63.3	64.8	64.3	115.0
HUM 340	250	70.2	69.6	70.1	69.3	69.1	68.8	68.9	68.2	65.0	70.2	65.9	67.4	65.2	66.7	65.1	117.9
TAPE S3136	315	70.2	68.5	71.2	71.1	72.1	69.9	69.0	69.0	66.8	70.2	66.1	68.4	67.0	68.1	67.2	119.0
BAR 29.0 HG	400	76.3	76.8	78.2	79.0	75.9	75.9	78.2	71.2	79.9	81.3	77.1	79.1	78.5	76.0	72.2	127.9
(98030. N/M2)	500	81.5	78.5	77.9	74.2	87.9	86.6	76.9	80.0	78.0	74.0	83.0	82.9	83.1	83.9	85.0	133.2
TAMB 64. DEG F	639	84.5	85.1	88.4	78.4	89.3	90.2	84.0	88.5	92.1	35.5	90.1	84.5	88.5	90.1	88.5	138.8
(291. DEG K)	800	81.4	83.9	88.3	82.4	79.3	87.8	86.1	87.2	91.1	86.2	88.9	79.0	88.0	88.8	82.3	137.4
TWET 57. DEG F	1000	85.3	92.0	92.2	90.6	88.5	93.2	97.1	93.4	89.2	89.6	89.5	88.3	87.4	83.1	81.6	141.4
(287. DEG K)	1250	92.4	90.9	93.2	97.1	90.9	91.8	96.1	97.3	96.1	96.1	94.2	91.0	90.3	83.1	84.1	144.3
HACT10.09 GH/M3	1600	89.3	92.1	93.5	89.5	89.1	91.2	91.2	89.1	88.0	86.3	84.1	84.1	86.1	79.2	81.3	138.5
(.01009 KG/M3)	2000	91.3	89.9	91.7	89.2	89.5	90.0	91.3	91.2	89.2	86.4	83.4	84.5	82.3	80.2	79.5	138.6
NFA 8540. RPM	2500	90.3	91.5	92.9	91.0	90.1	91.6	89.9	87.0	86.0	85.0	80.1	79.2	79.3	76.8	76.8	137.8
( 894. RAD/SEC)	3150	91.3	90.8	91.5	90.3	88.4	88.8	90.3	86.3	81.1	81.4	76.5	78.5	78.4	74.1	74.2	136.5
NFK 8503. RPM	4000	94.1	94.6	93.5	91.1	89.1	87.0	87.1	86.3	84.0	82.1	78.9	78.0	78.1	73.7	73.4	137.0
( 890. RAD/SEC)	5000	92.4	92.9	94.3	91.5	93.5	91.0	91.4	87.4	87.1	85.9	80.3	80.5	79.4	76.1	76.2	139.4
NFD10628. RPM	6300	93.6	94.1	92.4	90.8	91.7	89.3	88.5	84.7	85.4	83.6	79.5	78.4	77.6	78.3	74.3	138.2
(1113. RAD/SEC)	8000	92.8	92.3	91.7	88.5	89.5	88.4	89.6	86.4	83.1	84.6	78.4	78.7	75.6	72.4	72.4	137.9
NO. OF BLADES 44	10000	90.8	89.4	88.9	86.9	87.7	86.4	88.5	83.5	81.5	82.6	75.6	74.3	72.6	70.3	69.7	136.3
	12500	85.9	85.3	84.5	82.7	84.3	84.3	83.1	80.3	78.2	79.8	72.5	72.5	69.2	67.3	67.6	134.3
	16000	82.7	82.2	80.8	80.0	80.4	79.0	79.3	77.7	73.4	76.8	69.5	68.5	67.4	64.5	66.4	132.5
	20000	76.4	77.0	75.9	74.7	75.2	73.9	74.4	74.5	69.4	72.6	66.3	67.3	66.4	65.5	67.5	130.8
OVERALL MEASURED	102.4	102.7	103.3	101.5	101.3	101.8	102.1	101.3	100.8	99.3	99.0	96.3	96.4	95.2	94.3	97.3	
OVERALL CALCULATED	102.5	102.9	103.4	102.1	101.4	101.6	102.8	101.5	100.6	99.4	98.3	95.7	96.3	94.8	93.3	93.8	150.8
PNDH	115.7	116.1	116.0	113.8	114.5	113.7	113.7	111.0	110.9	110.3	107.9	106.1	105.9	103.7	102.6	102.3	

	MODEL SOUND PRESSURE LEVELS (5% DEG. F. 70 PERCENT REL. HUM. DAY)																	PWL
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	78.0	78.6	78.1	77.5	78.0	75.8	75.8	75.8	75.6	73.8	73.0	73.7	77.1	79.0	78.0	81.9	126.5
	63	73.0	71.9	76.1	72.4	79.6	75.9	71.9	68.2	69.0	73.9	70.0	69.2	70.2	72.9	73.1	78.0	123.4
RADIAL 100. FT.	80	66.6	68.3	66.9	65.8	66.8	64.8	65.6	64.8	66.4	66.7	64.7	63.7	62.8	64.5	65.7	74.6	116.5
( 30. M)	100	67.1	66.6	67.3	65.5	64.5	63.9	63.9	62.0	63.1	62.2	64.1	66.2	65.0	66.1	66.1	73.2	115.6
VEHICLE ATT	125	67.5	63.9	64.7	64.6	65.5	64.0	63.1	65.6	65.2	62.3	64.6	66.6	66.5	67.3	68.4	71.5	115.9
CONFIG T/O	160	75.8	71.0	72.2	71.2	71.2	71.8	66.7	74.1	73.6	71.0	72.8	76.2	72.2	75.5	77.0	72.9	123.3
LOC PTO	200	64.3	63.6	64.4	65.3	65.9	63.7	64.8	64.0	63.2	63.0	62.0	64.2	64.1	64.7	65.0	67.1	114.3
DATE 7/16/74	250	69.2	68.9	70.9	71.0	73.9	70.2	73.3	72.0	68.0	66.2	68.1	73.3	70.2	69.8	69.9	68.1	120.5
RUN 341	315	78.2	75.9	81.4	81.4	86.4	81.8	85.1	82.1	77.9	76.6	78.4	85.0	81.0	80.7	80.4	79.1	132.0
TAPE S3136	400	79.4	71.5	80.9	81.4	75.9	83.7	79.1	79.0	78.2	74.1	67.9	74.1	80.4	75.5	70.2	72.0	128.3
BAR 29.0 HG	500	82.1	74.6	84.2	84.9	82.0	87.8	82.9	84.8	82.7	81.8	83.1	81.1	84.1	79.9	82.9	82.7	133.6
( 98030, N/M2)	630	88.4	83.8	93.3	91.4	92.3	95.3	92.8	96.2	91.0	93.6	96.2	93.2	91.2	89.0	96.6	95.4	144.1
TAMP 64. DEG F	800	84.3	87.8	85.3	89.1	93.4	93.0	98.8	97.0	92.9	88.5	89.3	95.3	97.0	82.7	89.3	92.3	144.2
( 291, DEG K)	1000	85.4	87.0	88.5	92.5	95.3	95.0	94.0	93.2	88.3	86.6	86.3	86.5	84.6	82.3	78.3	81.3	140.9
THET 57. DEG F	1250	91.0	95.5	101.0	99.5	95.1	90.7	91.1	92.0	88.0	89.0	86.3	87.3	86.3	80.7	86.0	78.3	142.5
( 287, DEG K)	1600	95.5	94.8	95.2	94.3	90.2	90.1	89.2	87.4	84.1	83.4	80.4	82.1	81.3	78.1	80.4	77.1	138.3
HACT 10.09 GM/MS	2000	96.6	92.9	95.3	93.6	92.6	88.9	88.1	86.4	84.2	82.5	82.3	83.3	83.6	78.2	80.5	76.4	138.3
( 0.01009 KG/MS)	2500	90.9	94.8	94.0	93.3	91.3	89.9	86.7	85.1	84.8	82.9	81.1	81.1	80.1	78.8	79.0	74.7	137.8
NFA 9082. RPM	3150	92.6	90.8	93.3	90.3	90.3	90.0	89.0	87.3	85.0	83.3	80.2	81.6	78.2	76.0	76.4	74.4	137.4
( 951, RAD/SEC)	4000	96.3	95.0	92.4	91.1	91.0	87.0	89.1	86.2	85.0	81.1	80.3	80.0	78.4	74.9	75.1	74.2	137.5
NFK 9043. RPM	5000	91.3	92.0	92.7	90.4	92.4	88.9	90.1	86.5	86.3	83.3	80.9	79.6	79.4	76.1	76.9	71.3	138.2
( 947, RAD/SEC)	6300	90.8	92.1	89.5	87.8	88.5	85.3	86.3	82.6	83.2	80.6	78.7	78.6	77.8	75.5	76.4	72.6	135.5
NF710628. RPM	8000	89.4	89.2	87.7	85.6	86.4	84.4	86.1	82.5	80.6	78.7	76.4	76.3	73.6	71.3	71.6	68.5	134.5
( 1113, RAD/SEC)	10000	87.8	87.2	84.6	82.7	84.6	81.5	81.5	78.8	78.3	75.7	73.3	72.5	70.4	69.3	68.5	67.5	132.3
NO. OF BLADES 44	12500	83.5	82.9	81.7	78.5	80.5	79.1	78.3	76.3	74.0	73.2	70.3	70.3	68.4	65.5	66.4	64.7	130.2
	16000	79.5	79.4	77.3	75.4	75.5	74.3	74.3	73.4	70.2	69.6	66.4	68.6	65.6	64.2	65.8	63.5	128.2
	20000	74.3	74.2	72.8	70.7	71.2	69.1	70.1	71.6	66.1	67.7	64.6	67.6	63.7	64.5	65.7	64.8	127.4
OVERALL MEASURED		103.4	103.7	105.1	103.3	103.2	102.0	102.7	102.2	98.7	98.0	98.2	99.0	99.2	93.8	98.3	101.4	
OVERALL CALCULATED		103.6	103.5	105.2	104.0	103.3	102.2	102.9	102.2	98.6	97.7	98.5	99.1	99.3	93.1	98.3	97.9	151.3
PWDB		117.2	116.4	116.4	115.4	115.0	113.5	113.1	111.6	109.4	107.6	107.7	108.0	108.2	103.0	107.0	105.6	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	79.0	79.6	77.8	77.8	77.9	76.5	76.6	76.7	76.5	77.9	72.8	74.7	75.0	75.9	76.9	79.9	126.5
	63	76.0	75.9	77.0	73.9	80.4	76.7	72.0	69.0	70.0	77.3	69.9	71.1	71.0	73.0	75.2	78.2	124.6
RADIAL 100. FT.	80	69.9	70.2	68.9	68.5	67.8	66.2	65.8	64.9	67.5	74.6	64.7	64.4	64.8	64.6	65.8	74.8	118.6
( 30. M)	100	69.3	67.7	68.4	67.2	64.2	63.7	64.1	62.4	63.0	73.9	64.0	67.1	65.5	65.9	66.1	73.5	117.7
VEHICLE ATT	125	68.3	67.0	65.6	65.5	65.2	64.2	64.4	63.3	62.1	73.5	64.4	65.2	66.4	67.0	68.4	71.4	117.4
CONFIG T/O	160	77.0	75.8	73.0	70.9	70.0	75.0	75.0	75.9	67.9	75.0	76.0	74.9	74.2	78.0	76.0	78.2	124.7
LOC P/O	200	66.1	64.9	65.0	65.9	66.0	64.0	64.8	64.2	63.0	72.2	63.0	64.2	65.1	66.0	66.2	68.1	116.4
DATE 7/16/74	250	70.1	69.8	68.2	70.9	69.0	67.9	69.0	67.1	66.0	73.1	65.2	66.1	66.9	66.7	66.1	68.0	118.4
RUN 342	315	74.2	77.8	78.2	82.2	81.1	81.0	81.0	80.2	78.3	81.1	77.1	73.9	75.0	73.6	74.0	74.1	128.9
TAPE S3136	400	80.2	71.8	80.1	82.1	78.1	78.8	82.1	78.5	78.8	74.0	71.8	73.0	77.3	72.7	76.2	69.9	127.8
BAR 29.0 HG	500	87.2	76.6	87.1	90.1	86.1	85.5	89.7	87.6	86.7	82.0	78.9	81.0	84.8	80.9	83.1	76.7	135.6
(98030. N/M2)	630	89.6	88.9	90.3	87.8	95.5	88.2	94.4	96.4	93.9	93.2	89.1	93.5	86.2	92.3	89.7	88.5	142.8
TAMB 64. DEG F	800	87.2	85.9	88.2	90.4	90.2	90.1	96.9	93.0	92.9	93.1	86.2	89.1	90.0	86.1	78.2	86.3	141.7
(291. DEG K)	1000	85.3	87.1	90.4	93.4	93.2	95.0	92.3	93.3	90.2	89.6	87.4	87.0	87.4	84.3	82.9	81.4	141.4
TWET 57. DEG F	1250	90.4	92.7	96.0	95.4	93.1	89.6	90.9	88.0	85.7	85.3	82.9	85.2	83.0	82.1	86.3	76.0	139.5
(287. DEG K)	1600	95.2	91.8	94.9	92.5	89.1	88.1	89.1	86.1	85.2	82.4	81.0	81.0	80.5	80.2	78.3	77.0	137.2
MACT10.09 G4/M3	2000	95.5	95.1	94.4	91.6	90.2	90.2	89.4	87.3	84.9	85.2	81.4	81.6	80.6	80.6	80.4	78.3	138.1
(.01009 KG/M3)	2500	93.0	93.6	94.9	93.1	89.9	89.7	88.3	85.9	85.6	86.2	81.9	81.8	80.0	78.8	78.2	77.1	138.1
NFA 9230. RPM	3150	91.4	91.2	91.5	89.9	89.1	87.9	88.3	86.4	83.4	83.6	78.2	80.2	78.3	76.2	75.1	73.3	136.4
( 966. RAD/SEC)	4000	94.2	93.0	91.6	90.5	88.3	85.7	87.1	85.2	83.0	83.4	79.1	79.1	78.1	75.0	75.0	73.2	136.1
NFK 9190. RPM	5000	90.4	91.0	91.6	88.8	91.2	88.0	88.2	84.2	84.0	85.5	79.4	79.5	78.5	76.0	76.9	70.1	136.9
( 962. RAD/SEC)	6300	89.7	90.5	87.4	86.9	87.5	84.1	84.7	81.5	82.2	82.5	77.5	78.6	76.3	74.4	75.6	71.6	134.4
NFD10628. RPM	8000	88.4	88.2	86.5	83.7	84.3	82.1	83.3	80.9	78.5	80.4	74.5	75.2	73.4	70.2	71.4	68.4	132.8
(1113. RAD/SEC)	10000	86.6	85.3	83.3	81.8	82.6	80.2	79.7	77.5	76.3	77.8	71.5	71.4	70.5	67.6	68.6	66.7	131.0
NO. OF BLADES 44	12500	82.4	81.9	79.5	77.6	78.4	77.2	76.4	74.5	72.3	75.3	69.5	69.8	67.5	65.6	66.6	64.7	128.8
	16000	78.7	78.1	75.6	74.7	73.3	72.3	73.1	73.6	69.1	71.6	66.3	67.5	66.9	64.3	65.5	66.3	127.4
	20000	74.5	74.0	71.5	71.6	70.3	67.4	70.1	75.6	68.5	69.6	64.5	67.4	66.3	65.3	65.7	67.5	128.6
OVERALL MEASURED		103.2	103.0	103.4	102.7	102.0	100.8	102.9	100.7	99.7	99.1	95.3	97.2	95.4	96.2	95.0	98.2	
OVERALL CALCULATED		103.0	102.5	103.4	102.5	102.1	100.5	102.7	101.0	99.3	99.1	94.7	97.0	95.2	95.2	93.9	93.4	
PnDb		116.1	115.3	116.0	114.8	113.7	112.1	112.7	110.6	109.0	109.6	105.1	106.4	104.6	104.6	103.4	102.1	150.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
59	78.0	79.7	78.1	78.1	78.0	76.8	76.8	76.0	75.8	74.6	73.7	73.8	73.8	74.9	75.1	81.1	126.0	
63	78.1	78.7	78.3	75.3	81.2	76.7	73.7	70.2	70.7	74.0	72.0	73.1	71.0	74.0	76.1	80.1	125.2	
RADIAL 100. FT. (30. M)	80	68.7	70.4	68.7	66.16	67.6	65.4	65.7	64.9	67.6	67.8	65.8	64.6	63.9	64.4	65.9	75.7	117.4
VEHICLE ATT	125	67.3	66.0	64.3	65.4	65.2	63.9	64.9	63.3	63.9	65.1	65.1	67.3	64.9	66.0	66.5	74.0	116.4
CONFIG T/O	160	77.1	77.7	74.0	75.2	66.7	63.0	64.4	62.5	63.3	64.3	64.3	65.3	67.4	67.1	69.4	72.5	116.1
LOC PTD	200	65.2	66.1	65.1	66.2	67.2	64.8	65.1	64.2	63.8	65.1	64.0	64.9	66.3	67.0	67.2	69.2	115.7
DATE 7/16/74	250	69.1	68.9	68.3	69.3	67.4	65.6	66.0	65.0	65.8	65.7	64.4	64.1	66.1	66.0	66.2	68.2	116.4
RUM 343	315	76.3	78.6	77.2	77.2	75.2	72.9	79.3	73.9	78.2	79.2	70.0	72.9	72.0	75.7	74.9	70.2	126.0
TAPE S3136	400	69.0	71.8	78.2	72.1	73.4	76.8	73.7	72.0	76.8	71.8	71.0	68.9	74.1	76.0	70.2	71.1	124.0
BAR 29.0 HG	500	77.8	80.3	88.0	76.8	82.0	87.8	83.8	81.8	87.9	82.6	81.0	76.1	84.1	86.8	76.1	80.0	134.2
(98030. N/M2)	630	89.4	90.0	85.2	88.6	83.4	89.9	91.0	88.3	89.1	90.1	84.4	90.2	86.5	91.3	90.2	84.5	139.1
TAMB 64. DEG F	800	84.3	84.5	88.2	85.4	92.5	94.8	88.6	93.3	86.9	90.0	90.0	82.3	87.3	87.9	77.0	82.0	140.0
(291. DEG K)	1000	83.3	83.7	87.0	90.6	90.4	91.0	87.3	88.2	83.3	79.9	84.3	82.4	82.4	82.3	76.9	76.4	136.6
TWET 57. DEG F	1250	83.3	85.4	93.4	91.3	92.2	90.0	87.0	86.2	82.9	81.9	82.2	83.3	83.3	81.1	79.1	76.0	137.2
(287. DEG K)	1600	88.4	90.0	90.2	88.4	88.6	85.0	84.9	84.2	82.0	82.3	79.2	82.1	80.4	79.3	78.3	75.0	154.7
HACT 9.94 GM/M3	2000	93.4	91.8	90.3	86.5	88.6	89.3	88.3	87.7	85.1	81.1	80.2	80.4	80.5	78.5	77.5	75.1	136.2
(.00994 KG/M3)	2500	90.0	89.5	89.1	87.4	88.0	86.7	85.0	83.1	83.7	81.1	78.1	80.0	78.9	77.8	78.4	74.8	134.5
NFA 9410. RPM	3150	87.3	88.1	88.3	86.4	85.6	86.0	85.1	83.5	81.1	79.4	76.5	79.3	77.6	75.3	74.2	72.3	133.5
(985. RAD/SEC)	4000	90.2	90.0	88.1	87.5	84.3	82.8	82.8	82.2	81.2	78.2	77.2	78.3	77.3	73.9	73.9	72.1	133.0
NFK 9365. RPM	5300	86.2	87.2	88.5	85.6	87.7	84.3	85.0	81.3	81.1	80.1	76.5	79.4	78.4	74.2	75.2	69.4	133.7
(981. RAD/SEC)	6300	86.5	86.3	84.8	82.8	83.8	81.3	81.6	78.8	79.3	78.8	76.4	77.5	77.8	75.4	74.7	71.6	131.5
NF 10628. RPM	8000	83.7	83.3	83.3	80.8	80.6	79.2	80.3	77.9	75.1	76.6	73.3	74.5	74.3	70.3	71.9	67.8	129.8
(1113. RAD/SEC)	10000	81.7	81.3	79.9	78.1	78.6	76.4	78.2	73.6	73.2	73.4	70.4	70.7	69.4	67.5	68.6	65.8	127.5
NO. OF BLADES 44	12500	77.7	77.4	75.8	74.0	74.5	73.3	73.4	71.5	70.6	71.6	67.4	69.2	67.5	65.5	65.6	64.7	125.6
	16000	74.5	74.6	71.8	71.7	70.6	69.3	70.5	71.6	68.4	69.6	64.7	67.5	67.5	64.6	66.0	66.6	125.4
	20000	72.9	71.6	67.0	70.0	67.5	65.3	69.4	73.7	68.6	68.5	63.5	67.5	66.6	64.7	65.7	68.8	127.3
OVERALL MEASURED		99.0	99.9	100.1	99.2	99.3	99.8	97.8	98.0	96.1	96.1	94.3	94.0	94.2	95.8	94.3	98.0	
OVERALL CALCULATED		99.4	99.4	100.1	98.9	99.6	99.9	97.7	97.7	95.8	95.5	93.9	93.9	93.8	95.3	92.7	98.8	147.3
P.W.D.		112.4	112.4	112.1	110.7	110.8	110.2	109.4	108.1	106.8	105.2	103.6	104.1	103.7	104.2	102.6		



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	78.0	79.8	77.8	78.2	77.9	76.8	77.6	75.9	76.5	75.9	74.0	74.9	75.0	76.1	74.8	82.0	126.6
63	77.1	74.6	78.0	74.3	80.1	76.7	72.8	70.1	76.8	75.1	73.0	74.2	73.3	73.7	73.0	81.4	125.1
RADIAL 100. FT. (30. M)	80	69.0	70.5	69.9	68.8	68.9	67.6	66.9	69.4	69.5	66.5	65.8	64.7	66.3	66.3	68.0	119.1
VEHICLE ATT CONFIG T/D	100	68.2	67.7	69.3	67.3	66.0	64.8	64.8	64.3	64.4	64.2	65.0	66.2	65.8	67.1	78.1	117.4
LOC PTO	200	68.0	64.1	67.1	68.2	70.0	66.9	67.8	68.3	67.0	68.2	70.0	67.4	68.3	69.8	68.2	70.7
DATE 7/16/74	250	66.2	66.8	67.1	66.2	66.9	65.7	66.9	65.0	65.1	65.3	65.1	67.0	67.1	68.0	67.0	116.5
RUN 344	310	68.3	70.6	76.3	76.0	76.9	72.7	69.0	76.0	73.9	71.9	72.0	73.1	75.3	75.0	69.2	123.9
TAPE S3136	400	67.1	69.9	73.2	72.0	71.0	68.7	69.1	68.9	68.1	67.4	70.0	72.0	70.9	69.3	69.1	119.9
BAP 29.0 HG (98030, N/M2)	500	70.1	71.4	75.1	76.8	71.1	74.8	69.8	70.8	73.7	70.8	70.6	71.3	78.2	79.5	74.9	124.5
TAMB 64, DEG F (291, DEG K)	600	72.2	73.6	76.2	76.4	72.9	71.7	76.8	75.3	71.0	72.1	69.8	73.9	69.3	71.8	73.9	123.6
TWFT 57, DEG F (287, DEG K)	1000	72.3	72.1	74.9	76.6	73.3	72.2	73.0	72.5	72.9	71.2	71.4	75.4	73.2	72.9	72.2	123.4
HACT 9.94 G4/43 (.00994 KG/M3)	1250	72.9	73.9	77.0	78.4	78.0	73.9	74.0	74.0	71.7	72.0	72.8	77.4	77.3	75.7	75.0	125.6
NFA10141, RPM (1062, RAD/SEC)	1600	73.2	73.7	76.4	77.2	76.0	74.1	74.8	74.1	72.1	71.3	72.3	76.3	74.3	73.1	73.4	124.7
NFK10692, RPM (1057, RAD/SEC)	2000	73.4	74.9	77.3	79.5	78.4	76.1	76.3	74.4	75.1	72.5	74.2	77.7	76.2	75.9	76.3	126.6
NFD10628, RPM (1113, RAD/SEC)	2500	73.8	75.8	77.2	80.0	80.2	77.0	75.9	74.2	73.6	74.1	74.7	77.3	76.2	76.8	77.0	127.1
NO. OF BLADES 44	3150	72.4	74.1	77.5	79.5	78.5	75.2	76.0	76.1	72.9	72.4	74.4	77.5	77.6	74.1	75.3	126.7
OVERALL MEASURED	4000	76.1	76.8	76.9	78.4	77.3	75.6	75.0	74.3	72.8	73.1	77.1	78.3	79.7	75.7	77.0	127.4
OVERALL CALCULATED	5000	73.5	74.0	78.7	78.9	79.3	77.4	78.6	76.6	76.0	75.4	76.6	81.6	80.7	77.1	77.5	129.3
PND	6300	73.4	75.1	75.4	76.7	78.5	74.1	74.5	73.4	73.3	72.4	74.5	76.4	74.7	73.4	75.3	126.3
	8000	73.5	75.2	76.4	76.6	76.4	74.4	80.6	78.7	74.1	74.6	78.4	81.5	77.7	72.2	73.6	129.5
	10000	70.5	71.1	71.7	71.6	72.7	70.4	71.6	70.5	70.5	70.5	69.7	72.5	70.7	69.3	70.5	123.8
	12500	67.6	67.3	67.6	67.5	69.6	68.1	69.5	68.7	67.2	67.7	67.5	69.4	68.5	65.2	66.7	122.2
	16000	64.8	65.5	65.2	65.9	66.6	66.2	68.5	72.8	64.6	67.5	64.7	68.8	68.6	64.5	66.5	123.9
	20000	63.9	63.3	64.0	62.6	64.4	64.6	67.4	73.6	62.5	66.5	61.6	67.5	67.6	64.7	66.8	128.0
		91.2	91.0	93.3	91.4	92.3	89.8	92.1	91.6	89.8	90.2	90.2	92.2	91.1	90.1	91.0	96.3
		86.8	87.3	89.3	90.1	90.1	87.7	88.4	88.0	86.4	86.5	87.5	89.6	89.1	88.0	87.7	88.3
		99.3	100.0	101.8	103.1	102.8	100.2	101.0	100.0	98.9	98.5	100.3	103.1	102.4	100.3	108.6	139.3

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	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)	
50	79.8	80.7	77.8	78.9	76.9	78.1	78.5	77.9	77.6	81.5	74.8	73.8	75.8	76.7	75.0	82.2	127.8
63	77.7	77.7	78.0	74.1	81.2	77.1	73.8	73.8	76.1	79.7	76.1	76.1	72.1	74.2	76.1	81.2	126.6
RADIAL 100. FT. (30. M)	80	70.6	71.6	70.7	68.4	69.0	67.8	68.5	69.7	77.4	67.4	66.5	65.6	67.6	68.5	78.9	121.0
VEHICLE ATT	100	69.7	68.9	68.0	66.6	66.1	66.1	65.8	65.8	64.8	76.6	66.0	67.3	65.8	66.9	67.6	119.7
CONFIG T-0	125	68.0	68.0	66.1	65.2	67.4	65.4	66.9	65.2	64.4	76.2	64.3	65.4	67.2	67.4	69.3	119.3
LOC PTO	160	72.7	70.7	73.5	75.6	72.1	73.1	69.7	73.6	72.0	76.9	70.7	69.2	68.1	72.0	70.7	122.9
DATE 07/16/74	200	74.7	73.1	76.0	78.0	74.2	76.3	71.0	75.8	73.7	77.0	72.9	69.3	68.1	72.0	71.1	124.4
LOC 345	250	67.0	66.8	67.8	67.0	67.1	66.3	66.6	65.1	65.0	75.0	64.8	65.4	68.1	65.1	67.9	118.6
TAPE S3136	315	68.0	68.0	70.0	68.9	71.3	60.3	68.8	68.1	66.9	75.0	69.0	69.3	71.2	71.1	70.0	128.4
BAR 29.2 HG	400	68.7	70.7	71.9	71.7	71.0	69.9	70.7	68.7	73.5	70.9	71.1	73.1	73.1	71.0	75.8	121.1
(98030. N/M2)	500	69.8	73.8	74.8	73.7	73.8	69.8	69.5	68.6	68.7	74.8	72.5	71.1	76.0	77.9	72.7	123.4
TANK 64. DEG F	650	70.2	71.2	73.1	74.0	73.8	69.1	69.8	69.2	68.4	74.1	70.0	69.5	71.5	73.4	73.1	121.7
(291. DEG K)	800	73.0	72.1	74.0	75.9	72.0	71.3	71.6	71.0	71.1	75.7	71.9	71.3	71.2	71.2	72.1	125.5
THEI 57. DEG F	1000	74.0	73.0	74.0	75.0	74.3	73.2	72.8	73.2	73.1	76.0	73.1	73.4	74.3	73.3	73.2	124.1
(287. DEG K)	1250	75.0	74.8	74.0	77.9	76.3	77.4	75.8	73.7	72.7	76.0	73.3	76.4	75.0	76.0	75.0	125.9
FACT 9.94 GH/M3	1600	74.1	73.1	75.8	77.3	76.4	74.1	74.6	73.1	73.2	75.0	72.1	75.2	75.1	74.1	73.2	125.0
(100994 KG/M3)	2500	74.1	76.3	77.1	74.2	82.3	77.0	77.1	74.1	76.4	79.2	75.0	79.6	75.5	77.3	77.2	128.3
FAI 0750. RPM	3150	75.9	77.1	78.8	81.8	81.0	79.3	78.8	75.9	77.0	79.9	76.0	79.1	76.9	78.9	78.9	129.3
(1126. RAD/SEC)	4000	74.8	76.1	80.1	81.1	81.6	79.6	80.1	78.3	77.3	79.1	80.1	81.6	80.5	78.3	78.4	130.3
FKI 0699. 4PM	5000	76.9	78.3	80.9	79.7	81.1	79.5	77.8	76.0	77.0	80.9	79.2	79.2	82.0	79.0	79.2	130.4
(1120. RAD/SEC)	6300	75.0	76.4	81.3	81.2	81.8	79.6	79.4	79.2	79.3	83.3	79.4	83.9	82.3	78.6	78.6	131.6
FDL 0623. RPM	8000	74.1	76.2	77.2	77.5	79.9	75.5	76.1	73.2	75.6	79.6	75.3	77.9	75.7	76.3	76.4	128.3
(1113. RAD/SEC)	10000	76.4	77.3	79.3	78.2	75.6	77.6	83.3	86.5	77.6	82.7	80.3	81.6	77.9	77.5	76.6	132.1
NO. OF BLADES 44	12500	72.2	72.5	74.2	73.0	74.8	73.0	74.4	73.2	73.3	77.7	73.4	73.5	73.7	72.3	72.5	127.2
OVERALL MEASURED	16000	69.5	69.4	70.2	69.1	72.5	70.6	72.2	78.2	70.7	74.2	69.3	72.4	70.6	68.6	70.5	125.3
OVERALL CALCULATED	20000	66.5	63.6	66.4	66.1	68.6	66.6	69.1	72.5	68.4	72.3	66.5	69.8	69.8	66.6	68.7	123.4
PNRB	28000	64.6	63.5	64.3	63.4	65.4	64.7	68.1	74.2	68.5	70.3	64.2	66.8	68.7	66.6	68.0	127.5
		92.9	92.1	90.9	92.9	95.4	91.5	92.7	91.8	91.2	94.8	91.1	92.4	91.3	92.1	92.2	96.1
		88.3	88.3	90.5	90.9	91.5	89.5	89.8	88.7	86.3	92.4	88.8	91.5	89.8	89.1	88.9	89.1
		101.3	101.4	103.6	104.1	104.5	102.6	102.8	101.2	101.2	105.5	102.3	104.2	103.7	102.3	102.0	99.3

345

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	78.5	79.5	78.5	79.6	79.3	78.9	78.7	77.6	77.7	81.6	77.3	78.0	75.0	78.9	78.9	80.9	128.0
63	73.8	75.9	75.8	71.8	80.2	76.3	71.6	68.7	70.1	81.9	75.8	75.3	68.2	69.1	70.2	77.3	125.1
RADIAL 100. FT. ( 30. M)	80	70.4	70.5	69.6	68.5	68.9	67.7	68.3	67.5	67.6	79.5	66.8	64.8	65.1	65.9	73.9	121.2
VEHICLE ATT	100	73.0	68.7	69.6	68.6	69.0	67.0	66.5	65.8	65.1	79.0	65.8	68.3	68.1	70.0	65.8	121.0
CONFIG T-0	125	73.4	70.3	67.9	69.9	71.5	68.4	64.8	68.1	68.5	78.9	63.1	67.6	70.4	68.4	68.3	121.2
LOC PYO	160	73.0	67.7	67.7	67.8	72.3	67.2	64.5	66.0	69.0	77.0	62.9	68.2	70.9	69.9	69.1	120.4
DATE 07/16/74	200	71.2	69.6	70.1	68.6	69.0	67.2	66.7	64.6	63.9	77.8	62.1	63.4	64.3	66.0	65.1	119.6
RUN 347	250	77.1	74.0	75.2	73.8	73.3	71.3	70.6	68.9	67.9	76.8	65.0	67.2	67.1	69.0	67.1	121.4
TAPE S3136	315	76.0	74.8	76.1	74.7	75.3	72.3	70.8	70.9	69.0	77.1	66.1	68.3	68.9	70.0	68.4	122.3
BAR 29.0 HG	400	76.6	74.7	77.7	73.5	73.2	74.1	73.8	73.6	72.2	79.9	77.2	78.1	75.3	73.8	69.0	125.9
(98030. N/M2)	500	81.6	81.5	77.7	74.4	82.1	88.1	77.6	75.8	80.0	77.8	74.8	79.1	83.8	85.7	85.0	132.5
TAHO 64. DEG F	630	85.2	88.2	88.1	82.1	87.7	91.4	81.9	87.3	90.3	85.3	86.3	84.6	89.5	90.3	88.7	138.4
(291. DEG K)	800	83.8	86.2	87.9	83.6	86.2	86.1	85.9	88.0	90.8	86.9	87.0	83.2	88.1	89.2	81.4	137.6
THET 57. DEG F	1000	90.1	91.0	88.2	89.2	91.6	92.2	94.6	92.3	91.3	93.3	84.1	89.0	91.2	82.2	93.6	141.2
(287. DEG K)	1250	91.2	92.1	92.8	93.7	98.3	92.1	93.8	95.1	96.1	94.8	92.9	89.1	91.0	85.2	83.3	143.1
MACT 9.94 GM/M3	1600	95.0	95.1	92.1	89.2	90.3	93.5	91.0	89.1	87.1	86.2	86.2	82.5	85.2	82.3	82.4	139.0
(.00994 KG/M3)	2000	94.2	89.2	90.4	87.2	86.5	87.6	90.1	89.2	87.4	85.0	82.2	82.7	81.6	79.3	80.8	137.0
NFA 8534. RPM	2500	93.0	91.3	91.7	89.8	90.0	90.2	88.6	86.0	84.9	83.6	76.8	78.4	79.0	78.1	76.8	136.8
( 894. RAD/SEC)	3150	92.0	92.1	92.3	88.1	88.3	88.2	88.9	87.3	82.1	82.1	78.4	77.7	77.3	74.1	74.3	136.2
NFK 8493. RPM	4000	96.0	96.0	93.8	92.0	89.3	87.3	86.9	85.1	84.1	83.1	77.9	77.3	77.3	73.9	74.1	137.3
( 889. RAD/SEC)	5000	94.2	94.3	95.1	92.3	94.4	91.6	90.9	87.4	86.3	87.4	80.5	79.6	79.4	76.6	76.5	139.9
NFD10628. RPM	6300	95.3	95.5	93.3	90.4	91.6	89.8	88.4	85.4	85.6	85.4	78.6	78.6	77.8	76.7	74.3	138.5
(1113. RAD/SEC)	8000	94.3	93.4	92.2	89.3	89.6	88.6	90.0	86.5	83.6	86.5	79.3	77.7	76.2	72.4	72.4	138.5
NO. OF BLADES 44	10000	92.2	91.4	89.6	87.5	89.5	87.6	86.2	83.6	81.5	83.5	76.4	73.5	72.5	70.6	70.5	137.2
16000	87.4	87.7	85.2	83.3	85.7	84.5	83.3	80.5	78.3	81.4	73.1	71.6	69.4	67.3	67.6	67.6	135.0
20000	84.2	83.3	81.4	79.4	80.8	79.9	79.2	77.4	74.2	77.7	69.3	67.7	66.6	65.0	67.4	67.6	132.9
OVERALL MEASURED	79.4	78.3	76.5	75.6	75.8	74.5	73.3	75.5	71.4	73.5	64.6	66.6	65.6	66.8	67.7	69.9	131.4
OVERALL CALCULATED	105.8	103.8	102.7	101.1	101.4	102.1	101.6	100.1	100.1	101.0	96.1	95.0	98.0	96.3	95.6	98.1	150.5
PNOB	117.7	117.5	116.3	114.8	115.0	113.8	113.0	111.2	116.7	115.8	106.6	105.0	106.4	104.1	102.9	103.4	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	79.7	79.4	78.9	78.5	78.0	77.8	76.7	76.5	75.6	80.7	73.7	73.6	76.1	77.9	76.9	81.0	127.2
63	76.0	74.0	76.7	73.0	80.3	77.2	72.0	69.1	71.0	79.9	71.1	70.2	71.5	73.2	74.1	78.3	125.1
RADIAL 100. FT. (30. M)	80	70.7	71.3	70.3	69.14	69.7	66.6	67.5	66.5	69.0	78.5	65.6	64.6	64.9	66.5	67.0	74.7
VEHICLE ATT CONFIG T-D	100	70.7	69.6	70.0	68.5	68.0	66.9	66.0	64.7	64.2	76.8	65.7	67.2	66.9	66.9	73.0	120.9
LOC PTD	125	70.0	68.2	67.1	67.2	67.5	66.2	64.8	64.3	64.6	77.3	64.0	65.6	65.0	67.6	68.3	71.3
DATE 7/16/74	160	77.0	70.6	67.9	71.7	69.3	74.3	69.0	71.7	70.8	78.0	71.9	74.2	71.1	75.1	76.2	73.0
RUN 348	200	68.9	68.1	68.0	67.6	69.1	67.1	66.0	65.7	65.0	78.2	62.8	64.4	65.0	66.9	65.9	68.1
TAPE 5313A	250	73.8	73.1	73.9	73.0	76.1	74.5	74.8	73.0	70.0	77.9	69.0	73.0	71.0	72.0	70.9	70.1
BAR 29.0 HG	315	79.0	79.1	81.8	84.1	88.3	85.2	87.1	84.8	81.2	81.8	80.1	86.2	83.4	82.9	82.2	77.3
(980.80. N/M2)	400	80.9	71.4	79.7	81.5	77.2	83.8	78.3	76.8	75.8	77.8	69.8	71.2	78.7	75.1	71.0	71.2
TAMP 64. DEG F	500	85.6	74.7	84.9	85.9	82.9	90.1	84.4	84.7	80.9	82.9	81.7	80.1	84.1	81.9	83.2	82.9
(291. DEG K)	630	89.2	84.0	91.1	91.0	93.8	98.5	95.2	95.3	91.4	93.2	95.4	93.7	93.7	91.3	97.5	96.3
TWET 57. DEG F	800	86.0	89.0	83.9	87.1	95.2	94.3	98.9	96.8	94.0	98.8	85.9	94.4	97.1	84.3	90.2	92.4
(287. DEG K)	1000	83.0	86.9	86.8	93.1	94.3	92.2	93.0	88.3	88.1	87.0	86.4	84.0	83.4	79.2	81.6	140.5
HACT 9.94 GM/M3	1250	92.8	96.7	100.7	100.0	93.5	94.2	93.1	94.0	90.1	89.0	86.1	86.4	87.3	81.3	89.3	76.3
(1.00994 KG/M3)	1600	97.2	95.0	95.9	93.8	92.5	89.2	90.1	88.2	83.9	85.9	82.0	83.5	79.4	80.3	79.6	76.4
NFA 9077. RPM	2000	100.1	93.2	95.0	93.2	94.5	91.6	91.1	89.2	86.2	87.2	84.4	83.8	83.0	81.3	82.4	75.5
(950. RAD/SEC)	2500	92.7	95.5	95.7	90.9	89.4	90.0	86.8	87.0	86.9	85.7	82.0	80.3	80.1	79.0	78.0	75.0
NFA 9034. RPM	3150	94.0	92.1	94.1	92.0	92.5	89.2	87.2	86.1	86.1	88.0	81.0	81.6	79.4	76.1	76.4	75.3
(946. RAD/SEC)	4000	98.0	96.9	94.7	91.8	90.3	89.3	89.0	86.1	84.9	84.8	79.9	79.2	78.4	75.2	74.7	75.3
NFA 10628. RPM	5000	94.1	93.2	95.4	91.3	93.7	91.6	96.4	86.5	86.2	88.1	81.4	80.6	79.0	70.7	77.3	71.7
(1113. RAD/SEC)	6300	93.2	93.1	91.5	88.5	89.9	87.7	86.4	83.5	84.2	84.5	76.6	77.7	76.7	75.4	74.6	72.5
NO. OF BLADES 44	8000	91.5	91.1	90.2	87.4	87.6	85.7	86.3	82.3	80.5	83.4	77.4	75.5	74.4	71.6	71.4	68.8
	10000	89.6	89.2	86.4	84.2	85.6	83.5	82.4	79.7	79.4	80.6	73.1	71.7	70.7	66.7	69.6	67.8
	15000	85.2	85.2	83.0	79.3	81.7	80.4	79.5	76.2	74.4	78.3	70.5	69.6	68.0	66.3	67.4	64.6
	20000	81.4	81.3	79.5	76.4	77.6	76.6	75.1	74.5	70.5	74.4	66.5	66.6	66.7	64.9	66.6	65.6
OVERALL MEASURED		76.5	76.2	75.5	72.6	72.7	72.6	70.4	75.4	66.5	72.3	63.4	65.6	63.9	66.6	66.7	66.5
OVERALL CALCULATED		105.7	104.5	105.7	103.8	103.4	104.1	102.8	101.8	99.0	99.8	97.8	98.3	99.2	95.0	99.0	100.1
PWD		105.8	104.5	105.8	104.2	103.9	104.1	103.5	102.4	99.4	99.5	97.9	98.0	99.7	94.7	99.4	98.5
		117.1	117.7	117.6	115.5	115.9	115.5	113.7	111.9	110.2	111.7	107.6	107.6	100.1	104.5	107.7	106.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 6 DAY 27 HR. 20.0  
 ANGLES FROM INLET IN DEGREES (AND RADIANIS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT.	50	80.0	81.9	80.1	79.6	79.9	78.4	75.5	74.7	75.9	84.5	75.5	78.0	77.0	77.9	76.9	80.9	129.4
(30. M)	63	78.0	76.2	79.0	76.1	81.5	78.4	75.5	74.7	75.9	84.5	75.5	78.0	77.0	77.9	76.9	80.9	128.3
VEHICLE ATT	80	73.7	73.7	72.7	71.5	71.7	71.9	71.4	71.5	71.7	82.9	74.0	75.3	75.1	74.0	75.1	80.4	124.4
CONFIG T-0	100	74.0	70.7	73.9	70.8	72.0	69.1	70.5	71.6	71.0	84.1	68.8	68.8	68.1	73.0	70.8	74.1	125.3
LOC PTD	125	74.2	75.2	77.0	75.1	76.5	76.3	75.0	76.2	77.2	83.1	75.0	76.4	77.3	74.3	76.3	73.3	127.5
DATE 7/16/74	160	70.9	77.1	78.1	72.7	80.2	78.1	80.6	79.1	77.8	83.7	78.9	78.4	78.0	79.1	74.7	75.1	129.2
RUN 359	200	70.8	70.8	72.8	72.6	72.3	71.2	73.6	73.7	74.0	83.3	72.9	73.2	73.9	71.2	73.1	74.1	125.8
TAPE 53136	250	70.0	69.8	71.0	71.7	71.4	70.2	70.6	71.0	68.2	82.1	67.3	69.3	69.2	71.2	73.1	74.1	124.0
BAR 29.0 HG	315	83.9	83.8	85.0	84.7	86.4	86.0	83.9	83.9	85.1	84.9	77.9	77.3	78.4	81.1	81.9	80.3	133.0
(98030. N/M2)	400	72.9	75.0	75.8	76.8	77.3	74.1	74.6	74.7	74.8	81.8	70.7	72.2	73.3	72.9	74.0	73.9	129.9
TAMP 54. DEG F	500	75.6	82.9	85.8	85.8	88.0	83.9	81.7	85.9	85.5	83.6	73.6	79.3	83.0	83.7	81.7	81.0	134.0
(291. DEG K)	630	83.0	79.9	84.2	80.0	82.3	83.1	81.0	80.1	79.3	87.1	80.3	77.4	76.4	80.3	83.3	81.7	131.8
TWET 57. DEG F	800	80.1	79.9	83.1	79.9	82.2	83.7	82.7	80.2	78.4	82.0	77.3	76.6	78.1	74.1	74.3	71.2	130.1
(287. DEG K)	1000	81.1	81.1	81.1	81.1	83.4	80.7	82.7	80.2	78.4	82.0	77.3	76.6	78.1	74.1	74.3	71.2	131.0
HACT 9.94 CM/KS	1250	82.8	81.1	83.9	84.7	84.4	82.3	81.0	78.9	79.0	81.1	77.9	77.2	81.2	77.1	78.1	73.1	129.7
(100004 HG/H3)	2000	84.3	81.5	82.4	82.2	81.3	79.3	80.1	78.1	77.3	82.0	76.2	76.3	77.4	76.0	77.4	72.6	130.1
NFA 9470. RPM	3500	85.8	82.6	81.9	81.7	83.2	80.8	81.1	78.2	78.2	81.2	76.4	77.5	76.0	77.4	77.4	72.6	130.1
(1012. RAD/SEC)	4000	81.1	83.1	82.2	81.0	80.4	80.4	79.8	77.4	76.3	80.1	73.1	77.7	75.4	75.3	76.4	72.3	129.1
NFA 9424. RPM	5000	81.1	80.6	81.3	80.0	81.9	80.9	79.4	77.5	78.2	80.0	75.9	77.3	79.3	75.2	76.2	73.1	129.0
(1008. RAD/SEC)	6300	80.6	80.4	78.5	78.5	80.7	77.6	77.0	77.4	76.2	79.3	75.2	76.5	76.1	74.5	75.4	70.4	130.4
NFA 10628. RPM	8000	80.3	78.4	79.9	77.3	79.0	77.9	78.4	74.1	75.5	80.4	78.3	78.6	78.8	74.6	74.4	70.5	128.4
(1113. RAD/SEC)	10000	77.1	76.3	77.2	73.3	76.5	74.7	75.3	74.5	73.3	76.3	71.5	73.5	73.7	70.6	72.5	66.5	129.9
NO. OF BLADES 44	12500	74.4	72.2	74.2	72.3	72.6	75.6	73.2	75.5	75.4	75.3	75.4	73.7	70.6	72.5	66.5		127.1
	14000	72.5	70.5	71.5	72.4	72.9	72.7	76.3	77.4	73.4	74.1	71.2	72.8	70.0	68.6	69.6	68.7	129.0
OVERALL MEASURED	20000	71.4	72.4	71.4	70.4	75.8	76.6	74.0	77.3	72.5	77.8	73.2	73.5	68.6	48.5	73.3	70.0	129.7
OVERALL CALCULATED	96.8	96.2	97.1	95.7	97.4	96.0	95.6	95.6	94.2	100.8	93.0	94.1	94.3	93.9	96.0	97.4		133.1
PWD	94.6	94.3	95.1	94.2	95.6	94.1	93.7	93.0	92.7	96.7	95.4	91.0	91.3	91.3	91.4	90.3		144.2

III

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)	
50	79.8	80.7	78.7	78.9	79.4	77.9	78.5	78.7	78.1	86.6	74.6	75.1	76.1	76.6	75.8	83.1	129.7
63	76.8	76.0	76.5	73.6	80.6	77.0	74.9	72.6	73.8	86.1	75.7	73.3	72.3	75.1	76.2	81.5	128.5
RADIAL 100. FT. (30. M)	80	71.6	72.5	70.4	69.3	69.0	69.4	68.7	70.7	86.7	68.4	66.7	66.8	68.8	69.8	79.0	127.1
VEHICLE ATT CONFIG T-0	100	70.1	68.9	68.8	67.7	66.3	66.9	66.8	65.7	85.8	67.0	67.3	67.8	67.1	67.9	78.2	125.9
LOC PTO	125	68.2	65.0	65.8	69.9	67.5	66.2	65.8	64.0	84.3	66.2	65.6	66.4	67.4	69.3	75.2	125.5
DATE 7/16/74	160	71.9	69.9	74.5	76.6	72.2	77.8	69.7	74.6	86.0	70.7	70.0	68.2	72.8	70.9	78.0	127.1
RUN 351	200	73.9	71.9	77.0	79.2	74.3	75.0	71.8	76.9	85.8	72.9	70.2	67.9	73.2	71.0	77.0	127.6
TAPE 53136	250	68.0	68.2	67.9	67.7	68.6	67.3	67.8	65.8	85.8	67.0	67.2	69.3	69.2	69.1	70.3	125.4
HAP 29.0 HG	315	69.8	69.1	70.6	70.8	72.3	69.2	68.7	69.0	84.1	70.0	70.3	72.1	72.1	70.1	71.2	125.2
(98030. N/M2)	400	69.7	71.9	73.6	72.7	72.4	69.2	70.7	68.2	84.0	70.9	72.0	72.2	71.9	71.1	70.1	125.5
TAMP 64. DEG F	500	71.7	73.7	74.6	73.6	75.1	72.1	70.5	69.6	82.8	72.6	70.1	76.1	77.9	74.0	72.0	125.9
(291. DEG K)	630	71.1	73.0	74.2	75.2	74.5	70.9	70.0	70.0	83.1	72.0	69.5	72.4	73.1	74.0	71.5	125.5
THET 57. DEG F	800	72.9	72.8	75.7	77.3	74.1	72.2	72.9	72.0	81.8	71.8	70.3	71.7	72.2	73.2	70.2	125.2
(287. DEG K)	1000	73.9	72.9	74.9	75.1	73.5	73.3	72.8	73.2	82.0	72.9	73.5	73.0	73.2	74.2	71.5	125.7
HACT 9.94 GM/M3	1250	74.9	74.9	76.7	78.1	77.3	77.2	75.8	72.7	82.1	73.8	77.2	75.3	76.0	75.2	71.3	127.2
(.00994 KG/M3)	1600	73.1	74.1	76.0	76.9	76.5	74.3	74.6	73.1	81.1	73.1	75.4	75.4	74.3	74.1	70.4	126.2
NFA 6750. RPM	2000	74.3	76.4	77.3	79.2	81.4	76.2	76.2	74.3	81.5	74.3	78.1	76.6	77.0	77.5	72.4	128.3
(.00994 KG/M3)	2500	74.8	77.2	78.8	81.6	80.3	79.1	77.9	75.0	81.8	75.8	78.1	77.4	76.9	78.3	72.3	129.3
NFA 6750. RPM	3150	74.2	76.0	79.1	81.0	79.3	79.3	79.1	77.2	81.3	78.1	79.8	77.4	78.3	77.4	72.5	129.6
(.00994 KG/M3)	4000	77.8	79.2	79.9	80.0	80.3	78.4	75.8	78.0	82.1	77.1	79.2	81.4	78.0	79.1	75.2	130.1
NFA 6750. RPM	5000	75.0	76.5	80.2	80.3	81.6	79.5	81.0	80.4	83.3	80.4	83.7	83.6	79.2	78.5	71.6	132.3
(.00994 KG/M3)	6300	74.4	76.2	76.5	77.3	79.7	76.6	76.1	73.2	80.2	74.5	76.7	76.6	76.4	76.6	72.0	128.5
NFA 10628. RPM	8000	75.0	75.3	78.4	78.2	78.8	77.6	81.3	79.6	83.5	78.1	79.7	77.7	76.6	78.4	71.5	131.5
(.0113. RAD/SEC)	10000	72.5	72.3	73.4	73.4	74.6	73.5	74.3	72.3	77.4	72.5	75.5	73.5	71.4	72.4	67.6	126.6
(.0113. RAD/SEC)	12500	68.2	68.3	69.4	69.3	71.5	70.6	71.1	70.4	75.4	69.4	71.7	70.4	68.4	69.4	64.9	125.0
NO. OF BLADES 44	16000	66.5	65.5	66.4	66.2	68.8	67.5	68.3	73.2	73.5	66.5	69.6	69.7	66.7	67.5	65.6	125.5
NO. OF BLADES 44	20000	64.4	63.8	64.4	62.3	64.8	64.5	65.1	73.2	63.4	71.6	64.3	66.6	65.8	67.6	67.4	126.5
OVERALL MEASURED	92.8	92.2	91.2	92.8	93.1	91.2	92.7	92.2	91.1	101.8	98.8	91.4	91.5	91.3	92.2	97.5	
OVERALL CALCULATED	88.0	88.8	90.1	91.0	91.2	89.3	89.4	88.8	88.1	97.7	86.3	90.2	89.8	89.3	89.0	89.3	142.1
PI DI	100.8	101.9	103.3	104.2	104.1	102.4	102.0	101.7	101.3	108.4	101.8	104.2	103.0	102.4	102.3		

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL		
FREQ. (0.1)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)				
50	78.6	78.8	77.7	78.6	80.0	78.8	78.4	77.8	75.9	76.7	78.0	76.7	79.0	78.7	80.8		127.9		
60	74.1	72.1	76.1	72.7	80.1	76.1	72.9	68.1	70.3	74.8	72.1	70.3	68.0	69.0	70.3	76.1		123.4	
RADIAL 100. FT. (30. M)	80	69.5	69.7	68.6	67.6	67.8	69.3	68.4	67.6	66.7	67.4	65.7	65.8	65.8	66.8	73.6		118.0	
100	71.1	69.0	69.7	67.6	70.0	67.9	66.8	65.7	65.8	66.7	66.0	68.3	68.1	69.3	66.8	72.8		117.9	
VEHICLE ATT CONFIG T-0	120	74.0	70.3	68.1	69.9	73.3	69.6	65.8	66.4	69.5	67.0	63.3	65.3	71.4	69.2	69.5	71.5		119.1
200	71.0	69.9	67.7	67.7	67.9	72.0	68.2	64.5	66.0	69.2	65.6	63.0	68.0	70.0	69.9	68.9	69.9		118.3
DATE 7/16/74	250	77.0	74.9	75.9	74.0	74.5	73.2	71.7	70.8	68.0	68.2	65.9	68.2	67.1	70.0	68.0	69.4		120.8
RUN 353	315	75.9	75.0	75.9	74.8	76.2	74.0	71.9	71.8	68.8	69.1	66.9	68.4	68.4	70.0	68.1	69.4		121.6
TAPP S3136	400	75.7	76.9	76.7	74.9	73.1	73.9	72.5	70.0	71.8	77.0	73.9	76.4	76.4	74.2	69.9	75.2		124.0
BAR 29.0 HG	500	79.6	82.8	79.8	75.5	82.9	88.7	78.5	75.9	81.9	77.6	75.8	79.1	85.0	87.3	86.8	85.8		133.5
(98030. N/M2)	630	84.0	88.3	88.1	83.0	87.6	90.4	82.0	86.1	91.4	88.1	86.2	82.4	88.5	91.5	89.3	90.3		138.6
TAMR 64. DEG F	800	85.0	85.9	87.0	83.9	87.2	86.0	86.7	85.7	90.3	88.9	86.0	81.4	86.2	88.3	82.0	88.2		137.2
(291. DEG K)	1000	91.3	91.4	90.1	91.8	93.6	96.3	98.0	92.1	90.4	91.4	84.9	89.7	89.3	83.1	83.3	84.4		142.4
THET 57. DEG F	1250	92.9	94.9	92.1	93.8	90.2	92.3	95.9	95.1	96.2	93.9	93.9	89.2	90.4	85.2	83.0	81.1		143.4
(287. DEG K)	1600	95.2	93.9	92.2	89.1	90.5	92.2	90.0	88.2	86.0	85.0	87.3	82.5	84.9	82.3	82.3	80.2		138.4
HACT 9.94 GM/M3	2000	93.0	90.2	90.5	89.4	89.5	89.4	90.1	87.3	84.2	83.0	81.0	82.7	80.4	79.5	75.7		137.7	
(.00994 KG/M3)	2500	92.7	92.2	92.9	90.7	91.2	92.2	89.0	85.7	84.5	82.7	79.7	78.4	78.0	77.9	75.0		137.8	
NFA 8549. RPM	3150	93.1	91.3	92.0	89.1	89.8	88.6	88.9	86.5	82.2	80.9	76.9	77.7	76.5	75.2	74.3	72.3		136.4
(895. RAD/SEC)	4000	96.0	96.0	94.1	92.0	90.3	88.2	87.7	85.8	83.8	81.0	78.8	78.1	77.6	74.0	74.2	74.0		137.7
NFK 8508. RPM	5000	95.4	94.4	95.4	92.4	94.5	92.6	92.0	87.3	86.2	85.2	81.4	79.5	79.6	77.6	76.7	71.5		140.2
(891. RAD/SEC)	6300	95.6	95.5	92.6	91.2	92.7	89.9	89.5	84.8	85.3	81.5	79.3	76.8	76.8	76.8	74.4	73.8		138.7
NFD10628. RPM	8000	94.5	93.2	92.3	89.5	90.7	89.8	90.1	86.2	84.2	82.6	79.4	77.6	76.0	73.4	72.6	70.7		138.6
(1113. RAD/SEC)	10000	92.4	91.3	89.6	87.5	89.1	87.6	87.0	83.3	82.4	80.2	76.3	73.8	72.6	70.5	70.3	69.5		137.1
NO. OF BLADES 44	12500	88.3	87.6	85.3	83.2	84.5	84.5	83.0	80.4	78.6	78.2	72.3	70.8	69.6	67.5	67.6	67.7		134.5
16000	83.3	83.5	81.3	79.4	80.9	80.5	80.3	78.6	74.3	73.4	66.7	67.8	67.4	66.9	66.4	67.5		133.0	
20000	78.5	77.5	76.4	74.2	75.6	74.7	74.1	75.5	69.7	69.2	65.4	64.9	64.5	66.8	67.7	69.9		130.9	
OVERALL MEASURED	105.1	104.6	102.8	101.7	102.5	102.3	102.8	100.8	100.1	98.8	97.0	94.7	97.1	96.1	95.3	99.3			
OVERALL CALCULATED	104.8	104.3	103.3	101.7	102.4	102.7	103.0	100.2	100.4	98.6	97.0	94.9	96.4	95.9	94.0	94.9		130.3	
PMDR	117.9	117.5	116.9	114.3	115.5	114.7	113.9	111.0	110.7	108.8	107.3	104.9	105.0	104.3	103.2	103.4			

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
	50	79.8	79.8	78.6	78.5	78.0	77.0	76.6	76.5	75.5	74.7	72.8	74.1	76.7	77.9	77.9	81.1	126.6
	63	75.1	73.8	75.9	73.1	80.2	77.3	71.8	66.1	70.1	73.8	70.0	69.4	70.0	72.3	73.2	77.3	123.7
RADIAL 100. FT.	80	70.3	71.4	69.4	68.16	70.8	68.9	68.2	65.9	67.5	68.4	65.4	64.8	64.6	66.9	66.5	72.6	117.8
( 30. M)	100	70.7	69.0	69.9	69.10	68.2	67.2	66.8	64.0	63.9	65.0	65.7	64.2	67.2	67.0	67.0	72.0	117.1
VEHICLE ATT	125	70.3	67.1	65.9	67.3	66.6	67.3	65.9	64.3	64.0	64.0	63.4	66.5	66.4	67.2	68.2	70.4	116.2
CONFIG T=0	160	77.0	69.2	67.0	72.11	69.0	73.9	69.5	71.9	68.9	67.9	70.7	73.2	73.1	75.3	76.1	72.1	122.1
LOC PTO	200	68.8	67.8	67.0	67.10	68.2	67.0	66.8	65.0	64.1	64.0	62.8	64.2	65.0	66.3	66.0	67.1	115.7
DATE 7/16/74	250	74.8	74.0	74.2	73.10	74.4	73.0	73.6	71.8	67.9	66.8	69.2	73.1	71.9	72.0	71.0	68.4	121.8
RVV 354	315	79.0	77.9	79.1	78.17	83.3	81.0	83.6	81.8	77.0	73.9	79.2	85.2	81.1	82.1	80.1	74.1	131.2
TAPE S313A	400	80.9	71.7	79.9	84.6	81.3	83.8	77.5	77.0	79.1	75.9	69.9	72.1	78.7	78.1	71.7	73.1	128.8
BAR 29.0 HR	500	83.5	74.9	82.6	86.8	85.2	89.0	84.3	83.6	84.4	80.1	80.8	85.2	83.0	81.9	83.9	82.2	134.1
(98030. N/M2)	630	88.1	84.0	90.4	88.10	92.4	98.4	93.9	94.0	94.4	87.1	93.0	93.7	93.2	89.6	96.2	94.3	144.1
TAMP 64. DEG F	800	91.0	90.5	87.0	83.9	95.5	94.3	99.8	96.8	96.2	90.0	87.8	93.2	96.0	86.3	88.3	93.0	144.7
(291. DEG K)	1000	87.2	87.1	92.2	94.11	97.7	98.5	95.1	92.3	91.3	86.0	87.1	90.4	86.0	88.5	80.2	80.2	142.9
TWET 57. DEG F	1250	92.8	96.0	102.1	98.17	95.5	96.2	95.7	91.8	89.0	89.1	89.8	86.5	85.1	82.3	86.1	84.1	143.8
(287. DEG K)	1600	97.2	93.3	95.1	93.10	92.5	91.4	92.8	88.2	86.2	86.0	82.0	83.4	81.4	80.3	80.2	79.3	139.4
HACT 9.94 G4/M3	2000	100.3	94.2	96.4	92.11	94.7	93.5	94.0	96.4	86.4	84.4	82.4	83.8	80.4	83.4	78.6	78.5	140.6
(.00994 KG/M3)	2500	94.0	96.1	95.0	94.8	92.4	91.0	87.6	85.8	86.0	82.9	82.0	79.5	79.4	79.0	77.9	76.0	139.0
NFA 9077. RPM	3150	93.0	93.2	94.2	92.13	92.6	90.6	89.9	88.1	89.3	84.0	80.0	80.5	79.2	76.2	77.4	75.3	138.6
( 950. RAD/SEC)	4000	97.0	96.1	94.7	93.10	92.2	90.4	89.8	87.8	85.9	82.9	81.0	79.3	78.4	74.9	75.0	75.2	139.1
NFK 9034. RPM	5000	94.2	93.3	94.4	92.11	93.0	91.5	91.1	86.4	86.2	85.3	81.2	79.7	79.4	76.3	76.5	71.6	139.4
( 946. RAD/SEC)	6300	93.3	93.6	90.7	89.12	90.7	88.0	87.0	83.3	84.6	80.7	76.6	77.8	76.4	75.7	75.3	72.7	136.9
NFD10628. RPM	8000	92.5	91.3	89.9	87.12	87.7	86.7	87.0	83.6	81.5	80.6	77.5	75.8	74.6	71.7	71.6	68.6	135.9
(1113. RAD/SEC)	10000	90.4	88.5	86.4	85.12	85.8	84.6	83.2	80.4	78.7	77.6	73.2	71.8	70.7	69.7	68.8	67.6	134.0
NO. OF BLADES 44	12500	85.1	85.2	82.4	80.14	81.8	80.7	81.2	77.4	75.4	74.6	71.3	69.6	67.4	66.4	66.8	64.5	131.7
	16000	82.5	81.8	78.4	77.12	77.8	76.7	78.3	74.2	70.5	71.4	66.5	66.9	66.4	66.5	66.9	64.5	130.2
	20000	77.5	76.5	74.7	72.15	74.8	72.8	77.4	71.5	66.3	68.4	63.3	65.0	64.5	67.7	63.6	66.7	130.2
OVERALL MEASURED		100.1	104.9	105.8	103.17	105.2	105.1	104.6	102.1	101.2	96.9	98.0	99.2	98.1	95.4	98.0	100.2	
OVERALL CALCULATED		105.9	104.5	106.3	104.11	104.8	105.1	104.9	101.9	101.0	97.0	97.3	98.7	99.0	95.1	98.0	97.7	152.3
PWD-		116.9	117.8	117.7	116.13	116.4	115.3	115.0	112.1	110.5	108.2	106.7	107.3	107.7	104.2	106.7	105.4	



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	79.6	79.8	77.7	78.6	79.0	77.8	77.4	77.9	76.6	76.5	73.6	74.1	75.7	74.7	74.9	79.9	126.6	
63	77.8	78.0	77.6	75.7	80.1	77.0	72.9	72.2	71.0	74.7	73.0	73.3	73.2	74.1	74.8	79.2	125.1	
RADIAL 100. FT. (30. M)	80	70.4	71.7	70.4	88.4	69.9	67.6	67.2	66.6	69.9	70.4	66.5	65.9	65.6	67.5	67.7	72.9	118.4
VEHICLE ATT CONFIG T-C	100	70.9	69.7	69.8	67.7	66.4	66.2	66.0	63.9	64.8	66.6	67.0	67.4	66.6	67.1	67.2	71.0	116.8
LOC PTO	125	67.3	66.3	65.3	66.0	65.4	65.3	67.0	64.0	64.1	66.0	65.3	65.4	68.4	68.5	69.1	70.5	116.7
DATE 7/16/74	160	75.8	76.3	75.8	74.7	81.2	75.8	79.8	71.9	74.9	79.0	78.0	71.9	82.0	81.8	76.9	76.1	128.3
RUM 355	200	66.8	66.1	65.8	66.0	67.3	66.0	67.0	65.1	65.0	65.0	64.2	64.3	67.0	67.1	66.9	67.2	115.9
TAPP 53136	250	70.8	69.1	69.0	69.9	70.3	69.2	69.8	68.0	67.0	68.0	67.3	66.1	68.2	69.1	68.0	68.3	118.4
RA9 29.0 HG	315	80.1	77.3	77.7	78.2	80.3	81.0	83.7	82.1	80.8	81.1	78.2	74.3	76.0	78.2	79.8	73.3	129.9
(98030. N/M2)	400	71.6	74.0	79.0	73.8	77.4	78.1	73.6	75.7	76.9	77.6	70.0	71.2	76.1	74.8	76.8	71.2	125.5
TAMB 64. DEG F	500	79.9	81.8	88.7	79.9	87.1	67.8	81.5	87.1	86.8	86.9	79.0	79.9	84.7	85.0	76.8	79.8	135.1
(291. DEG K)	630	91.3	89.2	87.3	87.9	87.1	88.2	89.2	90.0	90.4	88.5	85.3	87.4	86.2	90.3	90.3	86.5	138.7
TWET 57. DEG F	800	83.9	87.3	87.9	89.7	91.1	92.0	90.9	89.6	88.2	92.0	86.9	86.1	86.6	87.0	76.8	84.4	139.3
(287. DEG K)	1000	87.2	85.4	85.2	87.4	87.6	91.2	88.9	87.1	85.3	84.0	84.2	79.5	81.2	80.3	78.4	77.4	136.1
HACT 0.94 GH/H3	1250	86.1	89.8	93.1	90.1	89.1	89.2	86.8	85.0	81.9	84.2	82.8	81.4	84.3	81.1	80.8	77.0	136.4
(-00994 KG/43)	1600	89.0	89.0	90.9	87.8	86.4	85.4	86.8	83.1	83.3	82.2	79.9	82.4	82.7	79.3	78.3	73.4	134.7
NFA 9477. RPM	2000	92.1	91.2	90.0	87.3	89.0	88.3	86.3	85.2	83.2	82.4	81.2	79.7	80.7	79.5	78.4	74.6	135.4
(992. RAD/SEC)	2500	87.8	89.2	88.0	87.0	87.2	87.3	84.8	82.9	82.0	80.0	77.8	79.2	78.1	78.3	73.1	73.1	134.0
NFA 2432. RPM	3150	88.0	87.4	87.3	86.2	85.9	84.6	84.0	82.3	79.2	79.3	75.0	77.7	75.4	74.0	75.3	71.2	132.6
(997. RAD/SEC)	4000	89.9	90.0	87.9	85.8	84.3	83.1	82.7	80.9	80.2	78.1	76.3	76.2	75.0	73.1	74.0	72.2	132.4
NFA 10628. RPM	5000	87.4	86.3	88.2	84.2	86.7	84.4	84.1	85.4	80.3	79.5	76.3	77.5	77.0	74.2	75.7	69.4	133.0
(1113. RAD/SEC)	6300	86.5	86.8	83.5	82.3	83.8	81.7	80.3	78.4	76.5	75.7	74.2	73.5	74.4	74.3	75.4	70.7	130.8
NO. OF BLADES 44	8000	84.5	83.4	82.2	80.4	80.8	78.8	80.1	77.5	75.5	74.5	72.2	73.4	72.6	70.4	71.6	66.8	129.3
OVERALL MEASURED	10000	82.5	81.5	79.3	77.5	79.1	76.7	74.8	73.3	72.3	71.4	69.2	69.6	68.6	67.6	67.6	65.5	127.2
OVERALL CALCULATED	12500	78.3	77.8	74.4	73.0	74.6	73.6	73.2	71.2	70.4	69.4	67.2	67.7	67.6	65.4	66.6	63.7	125.2
PNDL	16000	73.5	73.5	71.3	69.5	70.6	69.5	70.1	71.5	67.4	67.5	64.5	66.0	67.4	65.5	66.4	64.6	124.6
	20000	69.4	68.6	66.9	64.5	67.6	65.6	68.2	75.2	67.5	67.6	62.3	65.6	66.8	66.6	66.4	66.5	127.2
		99.8	100.1	100.0	97.8	99.1	99.0	97.9	97.2	96.9	96.8	93.8	94.4	94.1	95.2	94.2	96.4	
		99.6	99.5	99.9	98.2	98.8	99.0	97.8	97.0	96.9	96.5	93.1	93.0	93.4	94.5	92.9	91.4	145.9

	ANGLES FROM INLET IN DEGREES (AND RADIANs)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (8.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	79.8	80.9	78.8	78.5	79.2	77.7	79.1	78.7	76.9	76.7	74.6	73.9	76.0	77.0	74.0	79.2	127.1	
63	75.8	76.0	76.8	73.9	83.6	77.3	74.9	72.8	73.1	76.0	75.1	73.1	73.0	75.1	76.0	79.2	125.5	
RADIAL 100. FT. (30. M)	80	71.5	72.4	70.3	69.3	69.7	68.7	68.5	70.9	71.3	68.8	66.7	66.6	68.9	70.0	73.8	119.5	
VEHICLE ATT	100	70.1	67.8	68.8	67.7	66.3	66.0	65.8	64.8	65.9	66.9	67.0	67.3	67.0	67.3	71.8	117.0	
CONFIG T-D	125	67.2	65.3	65.0	66.0	67.5	65.4	66.2	64.2	64.1	65.2	65.1	65.3	68.0	68.5	71.5	116.8	
LOC PTD	160	73.7	71.9	74.9	77.0	73.2	74.0	71.9	76.0	71.8	72.1	72.6	70.2	68.0	73.1	71.2	76.1	123.2
DATE 7/16/74	200	74.0	72.0	75.0	76.8	73.8	74.2	72.1	77.0	71.1	72.0	72.1	69.3	66.1	72.0	71.0	75.2	123.1
RUN 356	250	67.8	66.8	68.1	67.8	68.4	67.1	68.3	65.8	65.2	66.0	66.9	67.1	69.1	69.2	69.1	69.5	117.7
TAPE S3137	315	70.2	68.9	71.1	70.9	72.1	69.9	70.1	68.9	68.1	68.0	70.0	71.1	71.0	72.3	71.0	69.5	120.4
BAW 29.0 HG (98030. N/M2)	400	69.9	71.9	73.5	72.8	71.9	69.2	71.0	66.6	67.8	68.7	71.8	72.0	72.0	74.2	70.9	70.0	120.9
TAMB 64. DEG F (271. DEG K)	500	71.8	74.9	74.4	73.4	76.1	72.9	70.9	69.8	70.9	71.5	73.9	69.9	76.9	78.2	73.7	72.0	123.9
TWET 57. DEG F (287. DEG K)	630	71.0	72.1	75.2	74.9	73.5	70.3	71.3	79.2	69.3	71.0	72.2	69.5	72.4	73.2	73.3	71.2	122.1
HACT 6.94 GH/M3 (.00994 KG/M3)	800	73.0	72.9	75.0	76.8	73.9	72.0	73.9	73.0	72.1	73.0	71.7	70.3	72.0	72.2	71.9	70.3	122.9
NFA10750. RPM (1126. RAD/SEC)	1000	73.9	73.2	74.9	74.8	74.5	72.3	73.2	73.0	73.3	73.2	72.2	73.4	74.1	73.4	72.4	71.2	123.6
NFK10699. RPM (1120. RAD/SEC)	1250	74.0	74.8	77.9	78.8	76.3	77.2	75.2	72.9	73.1	74.0	74.0	76.6	75.3	76.1	75.1	71.2	125.8
NFD10628. RPM (1113. RAD/SEC)	1600	73.8	74.1	75.9	76.9	76.1	74.3	74.3	73.2	73.2	73.4	73.1	75.1	75.4	75.4	74.2	69.5	124.9
NO. OF BLADES 44	2000	75.0	76.3	78.3	78.1	80.6	77.5	77.5	74.7	75.4	77.6	75.1	79.5	75.4	77.4	77.4	72.3	127.3
	2500	74.9	77.1	79.0	80.9	80.2	79.5	78.2	75.7	78.0	77.3	75.9	78.3	77.3	78.5	75.6	73.1	126.7
	3150	74.9	73.2	79.3	80.2	80.5	78.7	79.5	77.2	77.2	77.5	77.1	79.4	79.4	77.4	77.3	73.2	129.2
	4000	77.9	77.9	79.8	79.7	80.4	78.6	77.0	78.2	76.1	77.4	79.0	79.2	81.1	79.1	80.0	74.1	129.8
	5000	75.3	76.1	80.6	81.2	81.6	80.0	81.7	79.6	81.4	79.6	80.4	83.4	83.6	78.5	79.6	70.4	132.1
	6300	74.6	76.2	77.1	77.3	79.6	76.7	76.7	73.6	74.4	75.7	74.5	78.9	76.6	76.9	76.6	72.0	128.0
	8000	75.3	74.3	77.1	77.5	78.7	78.7	81.6	79.7	78.7	78.3	76.4	81.6	78.7	76.5	80.4	72.7	131.1
	10000	72.3	72.5	73.2	73.5	74.4	72.8	74.4	72.5	72.5	73.4	72.2	74.8	73.1	72.0	72.5	68.5	126.1
	12500	69.3	65.3	69.4	68.9	71.5	71.4	71.4	69.3	68.6	69.5	69.1	71.4	71.7	69.2	69.8	55.4	124.1
	16000	66.4	65.6	66.6	66.2	68.9	67.6	69.5	72.5	67.5	68.4	67.4	69.7	69.7	66.8	67.7	67.6	124.9
OVERALL MEASURED	20000	64.4	63.3	63.4	62.6	65.0	64.6	68.4	72.3	67.6	66.1	64.3	66.8	66.0	67.7	67.2	68.7	126.2
OVERALL CALCULATED		88.1	88.6	90.2	90.7	91.1	89.5	89.9	88.8	88.5	88.6	88.3	90.3	89.2	89.3	87.4		140.6
PMD		100.9	101.2	103.3	103.7	104.0	102.4	103.1	101.4	102.1	101.7	101.8	104.1	104.7	102.4	102.7	98.5	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)
50	77.0	77.9	77.7	79.6	78.1	78.6	76.4	76.8	75.8	74.1	76.0	77.7	75.9	78.2	79.5	78.0	126.7
63	78.9	69.0	74.9	71.7	76.8	75.0	70.8	65.9	68.9	72.4	68.9	68.9	66.1	69.2	59.9	73.1	121.6
80	65.2	67.3	65.0	65.4	54.4	62.2	62.0	62.1	63.4	62.3	61.5	60.3	59.5	61.4	63.0	69.3	113.0
RADIAL 100, FT. (30, M)	100	66.8	66.9	66.7	65.7	64.0	62.7	62.5	60.9	61.7	63.0	62.9	66.7	65.7	66.7	64.2	69.2
VEHICLE ATT	125	73.1	69.1	67.9	67.9	71.1	65.5	62.8	66.2	68.0	63.5	60.1	66.1	70.2	68.4	69.5	69.2
CONFIG T-0	150	73.0	67.8	67.7	68.6	71.8	66.1	63.5	66.8	68.4	65.2	61.8	67.9	70.6	70.1	69.2	68.2
LOC PTO	200	65.0	64.9	64.6	65.8	56.0	63.7	63.6	62.7	61.7	62.0	61.1	63.0	63.1	64.2	64.2	69.1
DATE 07/16/74	250	72.4	70.2	70.9	68.8	68.9	67.9	66.9	66.8	64.1	64.2	63.0	67.0	65.8	66.1	65.3	65.1
HUM 357	315	71.4	69.4	70.9	69.6	70.9	69.0	66.8	66.9	65.2	65.3	64.0	67.6	67.0	67.2	66.4	66.0
TAPE S3137	400	74.2	76.1	79.9	75.8	75.9	75.8	76.6	72.6	81.0	82.9	77.0	80.8	78.9	76.9	71.1	77.3
HAK 29.9 HG	500	82.2	80.3	78.8	74.7	57.5	85.5	77.8	81.7	77.8	78.9	85.0	82.8	82.9	82.9	85.4	83.8
(01039, N/M2)	630	82.5	87.4	86.2	79.0	88.9	90.2	84.9	89.2	91.9	82.4	91.1	85.0	88.0	89.3	88.2	87.5
TANK 63, DEG F	800	81.3	86.3	86.8	81.7	78.8	87.8	85.9	88.0	90.7	81.2	88.1	77.8	87.1	88.3	82.2	83.1
(290, DEG K)	1000	85.4	92.7	93.1	90.3	87.3	94.3	96.5	93.2	90.2	87.3	89.4	88.2	86.3	85.4	84.6	83.2
TWET 57, DEG F	1250	92.1	92.2	94.2	97.0	92.8	93.0	97.9	97.7	95.1	95.9	93.0	90.7	87.1	82.0	86.2	85.2
(287, DEG K)	1600	96.2	93.3	94.0	91.1	88.8	90.1	87.9	87.1	86.8	85.1	81.3	83.2	84.0	80.3	80.4	76.3
FACT 9.83 GM/M3	2000	92.5	89.7	93.1	93.1	89.3	89.3	92.2	91.0	90.0	84.6	84.4	84.9	83.3	80.5	80.0	74.1
(.00983 KG/M3)	2500	92.3	92.1	92.8	91.0	89.7	90.0	87.9	86.8	84.8	83.2	83.3	78.8	79.1	77.0	76.5	72.2
HFA 8583, RPM	3150	92.5	92.3	91.1	90.0	88.3	88.3	89.1	86.7	83.2	80.4	76.4	78.1	77.3	74.3	74.2	71.1
(899, RAD/SEC)	4000	94.2	95.3	93.0	92.0	88.7	86.9	87.7	86.0	84.0	81.1	79.1	78.0	76.9	73.9	74.3	73.0
HFK 8550, RPM	5000	92.3	93.4	94.4	92.1	92.3	90.3	90.1	86.1	86.1	84.2	81.2	80.2	79.4	76.5	77.0	69.5
(895, RAD/SEC)	6300	92.6	94.8	92.3	91.3	86.2	86.2	88.1	84.5	85.3	80.7	79.5	79.3	78.6	76.3	74.9	72.5
HFD10628, RPM	6000	92.6	92.7	91.5	89.5	89.0	88.5	89.0	86.4	83.5	81.7	78.4	78.3	75.5	73.2	72.8	69.6
(1113, RAD/SEC)	10000	90.8	89.8	88.4	87.3	87.5	86.5	86.4	83.3	81.1	79.6	76.5	73.4	72.5	70.4	70.2	67.5
NO. OF BLADES 44	12500	85.5	86.4	84.2	83.0	83.2	83.4	82.8	80.2	77.5	76.5	72.5	71.1	69.2	66.5	66.5	64.4
	16000	82.4	83.5	80.1	80.2	79.6	78.6	79.2	77.3	73.3	72.4	68.5	68.6	65.8	64.9	66.1	64.5
	20000	70.4	77.7	75.3	74.2	73.5	73.1	74.0	74.1	68.2	69.7	64.7	66.2	63.6	65.7	66.8	64.7
OVERALL MEASURED	103.1	103.5	103.2	102.1	100.8	101.2	102.9	101.1	99.9	98.3	98.1	96.1	96.2	95.3	95.3	96.2	
OVERALL CALCULATED	102.8	103.7	103.6	102.7	101.0	101.5	102.9	101.6	100.3	98.3	97.9	95.6	95.2	94.5	94.1	92.8	150.5
PND8	110.3	116.8	116.0	114.6	113.7	113.0	113.8	112.0	110.6	109.0	107.3	105.9	105.1	103.4	103.0	101.2	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	78.7	80.2	77.6	78.8	77.6	77.1	76.7	75.5	75.0	73.6	72.8	73.9	76.1	78.1	76.9	77.9	126.1
	63	74.0	73.1	76.8	74.0	80.8	77.2	72.0	67.8	69.2	72.7	69.3	70.0	71.0	73.0	73.1	74.0	123.6
RADIAL 100. FT. (30. MI)	80	68.5	67.9	67.4	66.2	66.6	64.6	64.8	63.2	65.4	65.3	63.6	62.6	61.6	63.9	64.6	68.8	114.8
VEHICLE CONFIG	100	68.8	66.3	66.7	65.8	63.8	64.0	63.1	60.6	61.8	61.8	63.8	65.7	63.3	64.2	65.0	69.0	114.1
LOC PTD	125	67.1	64.6	64.0	65.1	64.4	65.3	63.5	62.5	63.2	61.1	63.5	66.0	65.2	67.1	66.4	68.2	114.9
DATE 7/16/74	160	76.8	72.1	69.9	72.6	68.8	74.2	65.9	72.6	72.1	67.8	73.2	75.7	71.9	76.2	75.8	72.1	122.9
RUN 358	200	65.3	65.1	65.0	65.8	67.2	65.1	66.0	64.7	63.9	63.1	61.2	64.8	64.1	66.2	65.1	65.0	114.8
TAPE T860B	250	70.0	70.4	71.8	72.7	74.9	72.3	73.9	70.7	67.9	67.1	67.3	71.9	69.3	69.0	68.9	66.4	120.8
BAR 29.3 HG (97996: N/M2)	315	76.9	78.5	81.8	83.6	87.0	84.3	86.2	82.8	80.0	79.2	78.0	84.9	81.2	81.8	79.9	76.1	132.8
TAHR 63, DEGI F (290: DEGI K)	400	78.8	71.1	78.7	81.7	76.0	85.2	77.1	78.6	76.8	74.8	68.2	72.5	80.1	73.8	72.0	69.9	128.3
THET 57, DEGI F (287: DEGI K)	500	83.7	76.0	83.5	86.7	82.5	90.2	82.7	85.8	82.7	82.9	83.1	81.8	83.9	81.1	83.8	81.8	134.5
HACT 8.59 GM/M3 (100989 KG/M3)	630	90.2	87.5	94.0	91.2	93.0	96.4	92.2	96.1	92.1	95.2	97.4	95.3	86.5	92.3	97.2	95.3	144.8
NFA 9070: RPMH (950: RAD/SEC)	800	87.2	87.2	82.8	91.6	91.7	92.7	97.2	96.6	91.9	88.8	90.0	93.7	95.4	81.2	89.2	90.0	143.2
NFK 9035: RPMH (946: RAD/SEC)	1000	84.3	86.3	91.4	93.1	95.0	98.6	96.2	94.9	90.1	86.1	87.2	86.1	85.0	84.2	82.2	81.2	142.6
NFD10628: RPMH (1113: RAD/SEC)	1250	91.0	95.6	99.8	99.9	96.0	90.4	91.3	89.9	85.9	86.2	85.0	87.1	86.3	82.0	85.0	79.4	142.3
NO. OF BLADES 44	1600	97.4	97.7	96.3	95.0	91.9	88.5	90.2	85.8	83.0	83.0	61.3	82.9	82.2	79.4	80.3	75.5	139.1
	2000	97.4	93.5	95.2	94.1	92.0	90.3	91.4	87.9	85.1	81.1	82.4	83.0	81.6	80.3	78.5	75.1	138.9
	2500	90.9	95.4	94.9	94.9	91.7	91.0	86.2	85.6	85.8	81.8	81.1	80.0	80.3	78.9	76.0	74.1	138.7
	3150	94.5	93.7	93.0	92.0	91.3	91.3	89.6	85.9	84.3	83.3	80.3	80.3	78.4	76.1	76.1	73.4	138.0
	4000	96.3	96.5	93.1	92.6	89.8	88.4	89.1	85.7	84.2	80.9	80.0	79.9	78.4	75.2	74.8	72.9	137.9
	5000	92.2	93.3	92.9	91.9	91.9	90.5	89.4	85.6	85.3	82.9	80.4	79.2	79.2	76.4	76.0	70.3	133.3
	6300	91.4	92.5	89.2	88.3	88.2	86.4	85.5	82.1	83.3	80.5	78.4	77.4	75.7	75.3	74.2	70.6	135.6
	8000	90.3	89.5	88.4	87.0	86.1	84.5	85.5	82.0	80.3	78.4	76.3	76.0	73.5	71.5	71.2	67.3	134.5
	10000	88.4	87.6	85.1	84.4	84.1	83.3	82.4	78.4	77.3	75.4	72.3	72.1	70.4	68.3	68.3	66.4	132.7
	12500	84.2	83.5	81.3	80.3	80.5	79.7	78.6	75.0	73.1	72.1	69.6	70.1	67.6	65.2	65.5	64.4	130.4
	16000	80.3	80.5	77.2	77.1	76.6	75.7	77.4	72.9	70.5	69.3	66.4	67.4	66.5	65.6	65.3	65.5	129.3
	20000	76.4	75.9	73.5	72.2	73.6	71.9	77.4	73.5	68.2	67.4	64.5	67.3	66.5	66.8	67.6	67.4	130.2
OVERALL MEASURED		104.8	104.5	104.8	105.0	103.8	103.4	103.0	101.7	98.6	98.1	99.0	98.8	98.3	95.1	99.2	98.4	
OVERALL CALCULATED		104.5	104.7	105.2	104.9	103.4	103.7	103.8	102.2	98.6	98.3	99.3	99.1	97.9	94.9	98.7	97.1	151.7
PNOB		117.6	117.7	116.8	116.7	115.0	114.7	113.5	110.9	109.1	108.0	108.3	107.8	107.2	104.6	107.1	104.6	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	78.9	80.3	78.8	79.6	78.7	77.2	76.0	76.6	76.6	75.7	73.8	74.5	75.1	76.7	75.8	77.9	126.5
63	76.9	77.5	77.8	75.7	79.9	76.3	73.0	79.0	71.0	72.9	71.0	72.1	72.2	74.2	76.0	78.1	124.5
RADIAL 100. FT. (30. M)	80	67.5	69.0	67.6	66.5	66.5	64.9	65.6	64.5	65.8	63.4	64.6	63.4	63.7	64.5	65.4	115.7
VEHICLE ATT	125	65.2	64.4	64.0	63.9	65.2	63.6	64.4	61.2	63.1	62.4	63.4	64.2	67.3	67.4	68.2	115.1
CONFIG T=0	160	77.0	77.4	74.9	72.6	75.8	75.1	73.9	70.9	73.6	75.0	77.2	67.0	51.1	79.2	79.1	126.4
LOC PTO	200	54.4	64.4	64.8	66.1	66.8	64.3	65.3	64.0	63.8	65.1	63.2	64.0	66.5	66.9	66.0	113.0
DATE 7/16/74	250	67.0	68.4	67.9	67.6	66.9	66.1	67.4	65.0	66.0	65.9	64.0	64.9	65.4	67.2	65.2	116.0
RUN 359	315	79.1	80.4	79.9	80.1	78.6	76.3	78.1	76.0	76.9	79.0	72.0	72.1	72.2	77.1	75.0	126.5
TAPE T5608	400	71.3	71.3	77.8	72.5	72.0	78.3	76.9	73.6	73.9	70.7	71.8	69.1	70.4	77.2	69.0	124.4
BAR 29.0 HG	500	79.9	79.2	87.0	78.6	80.1	87.9	86.9	83.9	83.6	80.9	81.0	76.7	84.2	87.7	77.6	154.0
(97996 N/M2)	630	88.3	92.4	84.9	88.0	85.1	89.6	92.2	89.9	89.4	91.4	88.5	90.4	87.3	92.3	91.1	140.1
TAMB 63. DEG F	800	82.0	84.1	87.9	90.7	92.1	95.1	91.3	92.7	85.9	89.0	84.8	87.2	87.2	81.1	83.3	140.1
(290. DEG K)	1000	84.5	87.4	87.0	92.0	92.3	92.3	89.2	90.2	87.3	84.4	83.6	83.9	83.8	84.4	79.1	138.3
THET 57. DEG F	1250	85.3	88.2	92.9	91.8	91.9	91.3	88.3	86.7	84.1	82.9	82.1	82.9	82.2	81.0	80.9	137.6
(287. DEG K)	1600	90.2	90.5	89.0	88.3	88.4	87.4	86.2	85.0	82.0	80.3	80.2	81.2	80.7	79.5	76.9	134.9
HACT 9.89 GM/M3	2000	93.2	92.4	89.0	88.0	98.1	89.2	88.5	87.0	85.1	82.3	79.3	79.4	80.1	78.0	77.3	156.1
(.00989 KG/M3)	2500	89.9	90.3	88.7	87.7	98.0	88.0	86.0	83.7	83.7	80.8	79.3	79.8	70.2	78.3	78.0	154.9
NFA 9356. RPM	3150	87.4	86.4	89.1	87.0	55.4	86.5	84.1	82.0	81.4	79.1	76.5	79.1	76.4	76.2	74.2	133.5
(980. RAD/SEC)	4000	89.3	90.1	87.9	88.1	84.9	83.0	83.2	81.6	80.1	77.3	76.2	76.9	76.2	73.8	73.7	132.9
NFK 9320. RPM	5000	86.4	87.3	87.9	85.7	87.1	84.4	84.2	80.8	80.3	78.3	76.4	78.2	77.6	75.2	74.7	133.2
(976. RAD/SEC)	5300	86.4	86.8	83.4	84.4	84.2	81.7	80.4	79.0	78.6	77.3	74.6	75.5	77.6	73.2	74.5	131.3
NFD10628. RPM	8000	84.4	84.4	83.4	81.3	80.5	79.4	80.4	77.3	75.1	74.1	72.5	73.3	73.7	69.4	66.3	129.6
(1113. RAD/SEC)	10000	81.6	81.7	79.3	78.4	79.3	76.4	76.6	73.0	73.4	70.5	69.4	70.2	68.5	67.3	68.3	127.4
NO. OF BLADES: 44	12500	77.7	77.8	75.5	73.9	74.4	73.6	73.4	71.2	69.1	69.2	66.5	69.1	66.4	64.5	65.4	125.2
	16000	73.3	73.5	72.2	71.4	70.3	69.5	70.7	71.0	67.3	65.3	64.7	67.2	65.8	63.8	64.2	124.7
	20000	68.8	69.5	67.6	66.4	67.5	65.8	67.8	73.2	68.3	64.7	63.5	66.5	65.6	64.3	65.5	126.6
OVERALL MEASURED		99.3	100.4	99.9	99.7	99.1	100.3	99.1	98.7	95.8	96.8	95.1	94.9	94.3	96.1	95.0	93.4
OVERALL CALCULATED		99.4	100.4	99.6	99.6	99.7	100.5	99.9	98.7	95.6	95.7	94.2	94.1	94.0	95.9	93.4	147.6
PWDB		112.3	112.9	112.8	111.3	110.8	110.5	109.6	107.9	106.6	105.1	103.3	103.8	103.4	104.7	103.0	98.4

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## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59, DEG, F; 70 PERCENT REL. HUM., DAY)  
 ANCHORS FROM INLET IN DEGREES (AND RADIANS)

PROC. DATE - MONTH 9 DAY 13 HR. 6.4

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ,	(0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	58	79.2	81.2	79.0	78.7	77.6	78.7	77.8	77.7	77.1	75.1	74.8	76.1	76.9	76.4	77.9	127.2
	63	77.0	77.2	78.8	76.8	79.9	77.1	74.6	70.9	72.0	77.0	72.8	71.8	75.0	75.3	77.2	125.5
RADIAL 100, FT.	80	68.6	70.5	69.4	69.1	68.2	67.1	67.2	66.0	67.3	68.6	67.5	65.2	65.1	67.9	67.7	117.6
( 30, M)	100	67.9	67.1	67.9	66.7	64.7	64.0	64.9	63.9	64.0	64.1	64.8	66.6	64.8	66.5	70.9	115.6
VEHICLE ATT	125	65.5	65.1	64.8	65.7	66.3	63.8	64.8	62.9	62.9	64.5	64.1	65.1	66.1	67.3	68.5	115.7
CONFIG T-0	160	71.1	69.9	73.6	76.6	72.7	73.0	69.9	74.6	70.5	69.8	70.8	68.5	68.1	72.8	70.6	121.9
LOC PTD	200	74.1	72.0	76.7	78.9	74.9	74.8	71.9	76.9	72.7	72.0	72.7	69.7	68.8	73.3	71.3	123.8
DATE 07/16/78	250	66.1	66.3	66.8	67.6	67.1	66.0	66.7	64.8	64.1	64.4	65.0	66.0	67.0	68.1	67.2	116.2
RUN 360	315	67.3	67.2	69.1	69.8	76.2	67.8	67.6	67.0	66.1	66.2	69.0	69.6	69.9	70.0	69.5	118.6
TAPE	400	67.9	70.1	71.9	71.7	71.7	69.7	69.8	66.8	66.6	68.2	70.0	71.0	71.7	70.5	69.5	119.9
BAR 29.0 HG	500	69.8	73.1	74.6	75.3	73.9	69.5	70.8	69.8	68.9	69.8	74.1	71.6	75.7	77.2	74.0	123.2
(98030, N/M2)	630	69.1	71.2	72.9	73.8	72.0	69.1	70.1	68.2	67.9	69.2	70.3	69.1	70.3	72.5	72.5	120.7
TAMB 63, DEG F	800	73.0	72.6	74.7	76.9	71.8	70.7	70.6	71.6	71.1	71.3	70.9	70.6	70.2	71.4	71.5	121.9
(290, DEG K)	1000	74.1	74.0	74.3	75.0	72.9	72.2	71.8	74.1	73.3	73.1	72.1	74.2	73.0	72.3	72.4	123.4
THET 57, DEG F	1250	73.9	75.2	77.8	79.5	76.1	77.0	76.9	72.6	73.6	75.3	73.1	78.1	75.9	76.9	75.4	126.4
(287, DEG K)	1500	72.3	73.0	75.8	78.2	75.8	74.1	73.7	72.7	72.1	71.1	72.0	75.8	75.2	74.1	73.6	124.5
HACT 9.68 GM/M3	2000	73.5	77.3	77.3	79.1	81.3	75.2	76.9	73.8	75.0	73.2	75.2	78.4	75.9	77.4	77.9	127.3
(.00988 KG/M3)	2500	73.8	77.0	79.0	82.8	82.9	79.1	78.7	74.9	76.0	77.1	75.8	78.8	76.9	79.9	78.5	128.9
NFA10750, RPM	3150	73.2	76.9	80.0	81.2	79.3	78.3	79.9	76.9	74.0	74.1	78.5	81.0	77.1	77.4	76.7	128.9
(1126, RAD/SEC)	4000	76.0	78.0	80.1	81.1	79.9	78.7	76.8	76.0	74.9	74.9	79.0	78.8	81.9	79.2	79.7	129.5
NFK10709, RPM	5000	74.3	76.1	80.4	82.1	80.5	78.1	80.0	77.0	77.9	77.3	78.3	83.3	83.5	78.7	78.8	131.1
(1121, RAD/SEC)	6300	73.4	76.4	76.5	78.3	78.7	75.2	75.3	73.1	75.2	75.3	74.4	78.2	76.6	76.6	75.8	127.0
NFD10628, RPM	8000	73.6	74.9	78.2	78.5	78.3	76.4	79.4	78.7	76.2	75.4	77.6	81.2	77.3	75.8	79.1	130.0
(1113, RAD/SEC)	10000	71.7	72.7	72.6	74.4	75.2	72.1	74.3	71.2	72.4	71.4	72.3	74.3	72.8	71.5	72.7	125.7
NO. OF BLADES 4	12500	67.5	68.6	68.0	69.3	70.1	69.3	69.9	68.9	67.3	68.5	69.2	71.1	69.1	67.3	68.7	123.2
	16000	65.8	65.7	66.5	66.3	67.2	65.5	68.1	71.0	64.2	66.7	65.4	69.1	68.7	66.8	67.0	123.6
	20000	63.5	62.7	63.2	63.6	63.6	63.5	67.1	74.4	62.2	66.5	61.6	67.4	66.2	67.8	66.7	126.3
OVERALL MEASURED		62.1	61.3	61.2	64.0	62.0	60.9	62.1	60.8	69.9	60.4	60.4	61.9	62.0	61.3	62.7	93.4
OVERALL CALCULATED		67.1	68.7	69.2	69.7	68.7	68.5	69.1	67.9	67.0	67.3	68.1	69.3	69.6	69.1	68.9	150.1
PND8		69.4	101.2	103.3	104.9	103.4	101.4	102.4	100.2	100.0	99.8	101.5	104.0	103.7	102.3	102.3	97.5

 REPRODUCIBILITY OF THE  
 ORIGINAL PAPER IS POOR

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FeEq. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	65.8	79.3	76.9	79.5	78.8	76.7	77.8	76.7	75.9	73.6	75.8	76.7	75.8	78.9	78.6	79.2	127.0
63	71.2	69.4	75.7	71.0	80.1	76.2	71.1	65.9	69.0	73.0	69.2	68.1	67.0	68.1	68.8	73.0	122.4
RADIAL 100. FT.																	
( 30. 40)																	
80	65.5	67.7	66.4	65.5	64.6	62.7	62.6	62.2	64.4	63.7	61.7	65.4	60.9	61.6	62.7	69.9	114.0
100	67.1	66.4	66.7	65.9	63.9	62.8	63.1	61.9	61.8	62.3	62.9	67.0	66.2	66.8	63.9	69.6	114.8
VEHICLE ATT	125	72.5	68.6	67.9	67.7	71.2	66.3	61.5	66.1	68.1	62.0	60.1	71.1	71.5	69.5	68.2	117.3
CONFIG T=0	160	72.1	68.3	67.7	68.5	71.9	66.9	63.1	66.6	68.0	64.0	61.9	71.1	70.9	70.2	60.6	113.3
LDC PTO	200	65.0	65.3	64.8	65.9	66.0	65.8	64.2	62.9	62.0	61.1	60.9	66.1	63.4	64.2	64.0	114.0
DATE 7/16/74	250	69.4	68.2	69.0	69.7	69.8	71.9	67.2	67.7	65.0	65.8	63.0	66.8	65.0	67.1	64.7	117.4
RUN 361	315	69.2	68.0	68.7	70.7	71.7	73.0	68.3	67.8	66.1	65.8	64.3	68.2	67.2	68.4	66.0	118.5
TAPE T8608	400	78.8	75.3	76.6	79.8	78.9	79.2	80.2	75.9	81.0	81.0	74.9	79.1	78.9	73.6	76.2	128.7
BAR 29.0 HG	500	82.8	73.2	78.5	75.8	87.9	85.7	79.1	80.6	77.8	80.0	83.7	81.0	82.1	82.1	84.5	132.7
(97996, N/HQ)	630	86.2	84.3	89.0	84.1	89.1	90.1	85.4	89.9	90.4	85.2	92.3	85.5	86.3	86.6	88.2	138.7
TAMB 64. DEG F	800	81.3	84.1	87.8	85.0	79.1	88.0	85.4	88.1	88.8	81.3	91.0	85.2	85.3	86.0	82.7	137.0
(291, DEG K)	1000	86.3	90.7	89.3	90.9	69.0	91.4	93.8	93.9	91.2	90.4	90.4	87.3	86.4	84.5	83.9	140.7
TWET 57. DEG F	1250	93.2	92.2	92.8	96.0	38.1	92.2	97.2	97.7	95.2	96.1	92.9	88.3	88.3	86.2	86.0	144.1
(287, DEG K)	1500	90.2	92.6	91.9	90.1	38.9	91.1	90.5	86.9	84.3	84.3	82.4	83.1	83.4	79.2	79.2	137.5
HACT 9.80 GM/K3	2000	91.6	90.8	91.1	92.2	89.0	89.1	93.4	92.4	89.1	85.2	85.2	82.1	82.4	80.7	79.4	139.3
(.80960 KG/H3)	2500	90.2	91.4	91.7	91.7	89.7	89.9	89.1	86.7	85.8	82.8	78.9	78.1	78.1	77.3	75.9	137.1
NFA 8540 RPM	3150	91.6	92.6	91.3	91.1	89.2	89.1	89.3	86.2	82.1	79.4	75.2	77.4	77.6	73.6	74.1	136.6
( 894, RAD/SEC)	4000	93.3	90.5	93.0	91.8	89.1	86.9	88.0	85.0	83.9	80.3	79.2	77.3	77.2	74.1	72.8	137.2
NFK 8499 RPM	5000	92.0	93.3	94.2	92.0	90.0	90.2	86.1	86.3	83.2	80.4	80.4	79.2	79.3	76.2	75.9	138.3
( 890, RAD/SEC)	6300	92.7	93.8	91.4	91.2	91.3	89.3	88.6	84.1	85.4	80.6	79.6	77.6	77.5	75.4	74.3	137.9
NFD10628 RPM	8000	91.4	92.5	90.4	89.2	88.4	87.5	89.6	86.1	82.5	81.2	78.6	76.2	75.6	72.5	71.3	137.5
(1113, RAD/SEC)	10000	89.5	89.7	88.5	87.5	87.6	85.7	85.4	82.1	80.7	78.7	75.4	72.5	71.5	69.7	69.5	135.7
NO. OF BLADES 44	12500	85.4	86.9	84.0	83.4	83.6	82.7	82.4	79.4	77.4	75.6	72.3	69.4	68.5	66.8	65.5	133.5
	15000	82.6	82.7	80.3	79.6	79.5	79.1	79.6	76.4	73.8	71.7	68.9	67.7	68.8	64.6	64.7	132.0
	20000	77.1	78.0	76.5	75.8	74.5	73.8	73.9	73.4	70.8	68.6	65.7	68.0	69.0	66.1	63.8	130.6
OVERALL MEASURED		102.1	103.3	102.8	101.7	101.1	101.1	102.0	101.8	99.9	98.9	99.0	96.3	95.0	94.0	94.1	150.4
OVERALL CALCULATED		102.3	103.5	102.6	102.5	101.0	101.1	102.5	101.8	99.9	98.8	98.7	94.7	94.9	93.6	93.5	
PNDB		115.3	117.1	115.4	114.6	114.2	113.0	113.6	112.1	110.2	107.1	107.4	104.7	104.6	102.9	102.4	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 8 DAY 30 HR. 18.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET [N DEGREES (AND RADIAN)]

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PHL	
FREQ.	(0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	78.0	80.0	77.8	78.9	77.6	76.6	75.6	75.8	74.7	74.1	73.0	73.8	75.9	78.0	77.4	78.3	125.9	
63	73.3	73.1	76.0	74.0	78.9	76.0	71.7	67.8	68.7	73.1	70.1	69.9	70.0	72.0	72.4	74.3	122.7	
RADIAL 100, FT. ( 30, M)	80	66.3	67.3	67.1	66.1	66.0	65.0	64.3	63.1	65.3	64.4	63.2	63.1	61.6	63.6	65.0	70.3	114.6
VEHICLE ATT	100	66.1	66.3	65.9	65.7	63.7	63.6	62.5	60.9	61.7	62.2	63.8	65.8	63.1	64.9	65.1	69.9	114.1
CONFIG T=0	125	66.4	65.5	64.3	64.9	65.0	64.2	61.8	63.8	63.2	60.6	64.4	65.9	64.5	67.3	66.0	68.5	114.8
LOC PTO	160	75.1	72.2	70.9	71.9	68.6	73.0	66.8	72.9	71.1	68.2	73.0	74.7	69.2	77.0	77.2	72.7	122.7
DATE 07/16/74	200	63.9	65.0	64.9	66.0	65.8	64.0	63.9	63.7	63.0	62.5	61.9	64.0	63.3	65.1	65.5	65.2	113.9
RUN 362	250	69.4	71.0	72.9	74.2	74.7	72.2	73.7	71.3	68.0	69.3	68.0	71.9	69.4	69.2	66.4	67.0	121.0
TAPE S3137	315	77.2	79.0	82.9	84.8	86.1	82.9	84.9	81.9	79.2	80.4	78.1	83.6	79.1	79.1	78.7	79.2	131.9
GAP 29.9 HG	400	76.9	70.1	79.8	82.5	75.4	85.7	74.5	81.1	78.8	76.2	69.9	72.9	81.3	73.1	73.4	72.1	129.0
(D1039, N/M2)	500	82.8	76.0	84.5	75.7	82.7	88.6	81.7	86.7	82.7	86.0	84.0	82.8	83.8	80.8	89.1	83.0	134.6
(291, DEG K)	630	80.9	86.4	93.0	87.1	93.9	95.0	92.8	97.4	92.0	97.4	97.3	95.2	87.3	93.4	97.7	95.2	145.1
(57, DEG F)	800	87.0	85.9	82.9	90.8	91.1	91.0	96.0	95.9	91.0	90.5	90.2	93.1	95.0	80.4	88.0	89.0	142.5
(287, DEG K)	1000	86.4	86.1	93.1	93.3	95.2	98.2	95.9	94.2	91.2	87.5	89.1	84.9	82.2	85.5	93.5	79.3	142.4
(950, RAD/SEC)	1250	91.3	95.1	101.0	100.0	96.0	91.9	93.7	88.9	86.8	87.2	80.0	88.0	82.0	79.3	85.6	80.4	142.6
(946, RAD/SEC)	1600	97.2	94.1	95.9	94.9	91.2	88.2	91.0	86.3	83.9	81.5	82.2	84.9	77.8	80.3	80.5	76.2	138.6
(1113, RAD/SEC)	2000	97.3	92.3	94.1	93.9	92.4	91.2	92.1	87.4	85.2	82.8	81.5	82.0	81.2	79.7	79.0	74.5	138.8
(10953, KG/M3)	2500	92.2	97.2	96.6	94.0	96.1	89.1	86.9	85.8	85.9	82.6	80.0	80.1	79.9	78.3	76.4	74.2	138.5
(950, RAD/SEC)	3150	94.3	93.5	92.0	92.5	90.3	91.0	88.9	85.9	83.0	82.7	80.2	81.1	78.1	76.1	76.7	73.2	137.4
(950, RAD/SEC)	4000	90.9	96.2	92.8	91.6	89.1	86.9	87.9	85.7	83.8	81.4	80.0	79.9	77.7	75.2	74.5	73.2	137.1
(946, RAD/SEC)	5000	92.4	92.4	93.1	91.4	92.2	89.1	89.1	86.0	85.4	83.8	80.6	80.6	80.6	78.2	76.2	76.6	138.0
(1113, RAD/SEC)	6300	91.6	92.5	89.7	89.3	88.4	86.2	85.6	82.4	82.5	80.1	77.8	77.6	76.4	75.5	74.9	70.5	135.5
(1113, RAD/SEC)	8000	91.0	89.8	88.3	86.4	86.3	84.4	85.2	81.1	79.4	78.6	76.6	76.2	73.1	70.7	70.9	67.7	134.2
(1113, RAD/SEC)	10000	89.0	87.7	85.2	84.2	84.3	81.0	81.6	78.5	77.4	75.6	72.9	72.3	69.4	68.6	68.0	65.6	132.3
(12500, RPM)	12500	83.7	84.6	81.1	80.4	80.6	77.2	77.1	75.0	73.4	72.7	69.7	69.4	67.5	66.5	67.0	63.8	130.0
(15000, RPM)	15000	80.7	80.7	77.5	76.5	76.5	74.7	74.3	73.2	70.4	69.9	66.8	67.7	65.7	65.0	67.1	63.7	128.6
(20000, RPM)	20000	75.9	76.0	73.9	71.9	72.7	71.5	71.4	72.3	68.5	68.9	65.8	66.6	65.5	67.1	67.0	64.8	126.6
OVERALL MEASURED	104.0	104.0	105.9	104.1	102.9	102.8	102.7	101.8	98.7	99.9	99.3	99.1	97.1	95.3	98.0	97.1	96.8	151.5
OVERALL CALCULATED	104.7	104.2	105.6	104.7	103.2	103.1	102.8	102.2	98.5	99.9	99.5	99.0	97.1	95.5	99.1	96.8	96.8	151.5
PNDB	119.0	117.4	117.5	116.1	114.7	114.1	113.2	111.2	109.1	109.2	106.3	107.9	106.4	104.9	107.5	104.7	104.7	151.5

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANs)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PNL	
FREQ. (0, )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	78.2	80.2	77.9	78.9	76.0	76.6	76.4	76.5	75.6	74.0	73.0	73.6	74.9	76.3	76.0	78.2	125.8	
63	72.2	76.2	76.8	74.6	78.8	75.9	71.8	68.7	70.9	73.0	70.2	70.7	71.0	74.2	75.5	76.3	123.5	
RADIAL 100. FT. ( 30. M)	80.6	88.3	67.1	66.8	66.2	64.3	64.9	64.4	66.0	65.5	64.3	63.2	62.3	65.5	65.8	69.3	115.1	
VEHICLE ATT	100	60.0	69.2	66.6	65.6	63.7	62.9	63.0	62.0	62.9	63.0	63.1	65.1	63.8	66.1	65.6	69.0	114.2
CONFIG T=0	125	64.9	64.4	63.0	63.8	55.9	63.3	64.2	61.1	62.1	63.1	64.2	62.9	67.2	68.2	68.3	69.4	115.0
LOG PTD	160	72.8	76.0	73.8	71.6	74.7	74.7	73.9	71.6	72.8	76.1	77.2	67.8	79.9	79.3	79.5	78.0	126.0
DATE 07/16/74	200	64.0	63.9	63.8	65.6	65.9	63.7	64.7	63.6	64.0	63.0	62.9	64.1	65.1	67.1	64.4	66.0	114.5
RUN 363	250	67.4	68.3	68.9	68.7	58.1	66.1	67.1	64.8	65.1	66.4	64.0	65.3	65.2	67.1	66.6	65.2	116.2
TAPE S3137	315	77.4	80.3	81.1	81.0	78.1	75.8	77.8	75.8	77.8	80.2	71.1	70.9	71.1	78.0	76.3	72.2	127.0
BAR 29.9 HG	400	72.1	71.2	77.7	73.5	70.9	75.0	74.7	75.7	73.5	72.1	71.0	69.8	75.9	79.4	70.1	70.8	124.4
(01039, N/M2)	500	80.1	80.1	85.5	78.8	76.9	83.6	83.8	84.9	81.8	86.8	78.8	77.0	83.9	87.8	79.4	76.9	132.7
TAMB 64, DEG F	630	89.2	94.1	87.2	83.9	83.2	89.2	92.8	91.1	88.9	93.2	90.3	90.0	87.2	92.1	92.7	89.4	140.6
(291, DEG K)	800	83.2	81.3	86.0	89.0	91.1	93.1	88.9	91.0	87.0	88.3	89.9	82.0	89.9	87.0	81.6	83.3	138.8
WFT 57, DEG F	1000	84.1	86.6	87.2	93.2	93.0	93.2	89.8	91.2	88.1	85.1	84.4	84.3	82.3	83.2	77.7	79.3	138.9
(287, DEG K)	1250	88.1	88.1	93.0	91.1	91.8	93.7	86.9	86.9	86.0	84.1	82.9	84.9	83.0	82.0	82.3	79.3	137.5
HACT 9.53 GM/M3	1600	98.1	98.1	88.1	87.2	88.2	86.3	89.9	84.9	83.3	81.4	86.2	82.2	81.0	79.2	78.9	73.2	134.5
(.00953 KG/M3)	2000	93.4	92.5	87.4	88.1	98.3	86.1	88.0	86.2	84.0	80.6	79.3	80.2	79.2	78.6	77.7	73.3	135.4
NFA 9350, RPM	2500	84.9	91.0	88.8	88.7	87.7	86.7	86.9	85.9	84.9	81.1	80.2	81.0	78.2	78.0	78.4	73.2	135.5
( 979, RAD/SEC)	3150	88.3	88.3	89.0	86.3	88.3	85.3	85.9	83.1	81.3	80.2	77.5	78.5	76.3	74.3	74.7	71.9	133.4
NFK 9305, RPM	4000	89.2	90.0	88.8	88.0	84.9	82.8	82.7	81.7	80.8	78.3	77.4	78.0	76.0	73.2	74.5	71.1	133.0
( 974, RAD/SEC)	5000	88.0	87.4	88.3	87.3	87.4	84.3	84.9	81.1	80.4	79.7	77.7	78.6	77.6	74.4	75.6	68.6	133.6
NFD10625, RPM	6300	86.8	86.7	84.3	84.2	84.6	85.3	81.4	78.5	79.3	76.9	75.3	76.4	76.8	73.5	74.8	69.6	131.3
(1113, RAD/SEC)	8000	84.7	84.7	82.5	81.4	81.5	78.6	80.2	77.3	75.2	74.7	73.4	74.5	72.5	70.4	71.7	65.8	129.5
NO. OF BLADES 44	12500	84.4	81.8	79.4	79.4	78.5	77.5	76.4	73.4	72.5	71.5	69.8	70.5	68.7	67.5	68.8	64.7	127.4
OVERALL MEASURED	16000	77.6	78.6	75.4	74.5	74.4	73.1	71.4	69.4	69.6	67.4	68.6	66.5	64.9	66.1	63.5	62.2	125.2
OVERALL CALCULATED	20000	73.6	73.7	71.6	70.5	70.5	69.7	70.3	72.5	68.4	66.9	64.6	67.5	66.8	65.8	66.3	66.7	125.0
PNDB	89.8	88.9	68.6	65.8	66.6	65.9	67.6	72.7	67.6	66.3	63.1	65.9	66.6	66.8	66.1	66.9	126.2	
	99.1	101.0	99.8	100.1	99.0	99.7	98.7	98.8	96.1	97.1	95.3	95.2	93.9	96.0	95.6	94.1	147.5	
	99.6	100.6	99.5	99.4	99.5	99.8	98.6	98.2	95.9	96.5	95.1	94.1	93.5	95.8	94.7	90.3		
	112.5	112.8	112.0	111.2	110.5	110.9	109.7	108.5	107.2	106.0	104.1	104.2	103.1	104.6	104.2	99.2		

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
	50	77.9	80.2	77.3	79.0	78.9	76.8	77.7	76.7	76.0	73.9	73.8	74.6	75.9	74.6	76.8	126.2	
	63	78.1	78.1	77.7	76.6	79.8	77.9	74.8	70.7	72.2	76.1	75.2	72.0	72.1	75.1	75.3	77.2	125.2
RADIAL 100. FT.	80	68.2	70.6	68.8	68.3	68.1	67.1	66.9	66.3	67.3	68.3	66.3	64.4	64.1	66.6	67.8	70.5	116.9
( 30. M)	100	66.9	66.9	67.8	66.9	65.7	63.4	69.0	63.6	63.7	64.8	64.8	66.0	65.8	65.9	67.1	69.9	115.4
VEHICLE ATT	125	64.1	64.1	63.0	65.0	66.0	64.2	64.9	62.8	63.3	63.1	63.5	64.9	66.2	67.1	68.6	69.0	115.1
CONFIG T=0	160	72.0	71.1	74.5	78.0	72.0	73.0	70.7	75.9	71.7	71.1	72.2	69.7	67.9	72.9	71.3	73.8	122.7
LOC PTO	200	73.0	72.0	74.7	78.1	73.9	74.7	70.8	75.6	71.9	71.2	72.1	69.9	68.0	71.9	71.2	74.2	122.9
DATE 07/16/74	250	66.3	66.2	66.6	67.8	66.9	66.0	66.7	64.8	64.1	64.3	64.9	65.9	66.8	67.2	67.4	67.3	116.0
NUM 364	315	67.4	67.2	69.6	69.9	71.0	68.8	67.9	66.9	66.1	67.1	69.1	69.6	70.0	69.2	70.3	67.0	118.7
TAPE 53137	400	66.3	70.0	71.5	71.9	76.7	69.8	69.8	66.7	66.6	68.0	70.0	70.9	71.7	70.0	70.2	66.9	119.7
BAR 29.9 HG	500	70.8	72.8	74.4	75.6	73.8	70.5	70.6	69.7	68.5	70.1	74.0	71.8	74.8	77.0	73.3	70.1	122.9
(01039. N/M2)	630	69.8	71.4	72.1	74.0	72.1	69.2	69.8	69.0	67.9	69.3	70.4	69.1	70.0	71.3	72.0	68.5	120.5
TANH 64. DEG F	800	72.9	73.0	73.7	76.9	70.9	70.9	70.7	72.9	72.0	71.0	70.2	70.0	71.0	71.1	72.2	69.2	121.9
(291. DEG K)	1000	73.2	74.1	73.9	75.2	73.2	72.3	72.1	74.0	73.2	72.2	72.1	74.1	73.2	73.3	72.7	69.4	123.2
TWET 57. DEG F	1250	74.2	73.1	77.9	79.8	77.0	77.0	76.9	71.9	73.7	75.2	73.1	78.1	74.9	77.4	75.1	70.9	126.2
(267. DEG K)	1600	73.1	73.1	74.1	78.0	75.1	73.8	74.6	72.8	72.1	71.3	72.1	76.1	74.1	74.0	73.5	68.2	124.3
MACT 9.53 GM/M3	2000	73.1	77.7	77.0	80.4	81.3	79.0	76.8	74.0	74.2	75.2	74.4	79.1	75.3	77.5	77.8	71.3	127.4
(.00953 KG/M3)	2500	73.8	77.1	78.8	83.1	81.0	79.9	79.7	75.0	76.9	76.2	76.1	78.2	77.2	79.5	79.0	71.3	129.0
NFA10750. RPM	3150	73.1	76.2	80.0	81.4	79.3	78.3	80.2	77.3	79.2	75.3	78.5	80.1	77.1	78.4	77.7	72.4	129.0
(1126. RAD/SEC)	4000	79.2	78.1	80.2	80.8	79.1	77.8	79.9	77.0	75.0	74.8	78.0	78.3	82.1	79.2	80.7	74.2	129.4
NFK10699. RPM	5000	73.2	76.2	81.2	81.4	80.2	78.1	78.1	75.9	80.4	77.3	78.3	82.3	84.2	78.8	78.7	69.5	130.9
(1120. RAD/SEC)	6300	73.4	75.7	76.5	78.4	79.3	74.1	75.0	73.1	75.4	75.3	74.6	77.6	75.5	76.7	77.0	70.7	127.4
NFD10028. RPM	8000	73.6	76.4	78.3	79.3	79.7	78.2	80.2	80.3	75.4	74.6	78.5	81.3	77.6	78.0	79.1	71.7	130.5
(1113. RAD/SEC)	10000	71.7	72.7	73.3	74.3	74.5	73.5	73.4	71.5	73.4	72.4	73.5	74.6	73.6	72.0	72.9	67.6	126.0
NO. OF BLADES 44	12500	67.6	68.6	68.3	69.5	70.4	69.2	70.1	69.4	68.2	69.7	69.4	71.3	69.7	68.0	69.1	64.5	123.4
	16000	67.7	69.9	69.4	66.8	67.5	65.8	68.3	71.4	66.4	66.8	66.0	69.7	68.8	66.9	67.3	68.0	123.9
	20000	63.1	64.0	63.8	63.0	65.6	62.6	67.4	72.6	66.7	67.9	64.0	67.8	65.6	67.0	67.3	67.0	126.0
OVERALL MEASURED		91.3	91.9	90.9	93.0	93.1	91.4	91.9	91.2	90.1	91.1	90.5	92.0	92.0	91.5	92.8	93.3	
OVERALL CALCULATED		87.0	88.7	90.1	91.8	90.7	88.8	89.1	88.1	87.5	87.2	88.0	90.0	89.7	89.2	89.2	89.7	140.0
PND8		99.4	101.4	103.3	105.0	103.4	101.8	102.4	100.5	101.1	99.8	101.3	103.5	103.9	102.4	103.0	97.6	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
	50	74.1	75.8	73.2	74.5	74.9	75.0	72.7	73.4	73.5	73.1	71.1	72.9	72.0	72.0	71.8	76.7	123.2
	63	73.0	73.0	77.4	72.0	81.1	80.9	72.7	69.8	71.8	80.5	71.2	70.3	70.1	73.2	70.9	74.6	125.7
RADIAL 100. FT. ( 30. M)	80	69.5	69.7	68.6	69.3	69.8	70.7	69.6	68.5	68.3	67.7	68.7	68.5	66.8	67.9	66.0	72.4	118.8
VEHICLE ATT	100	69.9	68.9	69.0	67.0	70.1	68.7	67.6	67.9	68.7	66.1	66.2	65.2	66.0	68.3	66.9	72.6	117.9
CONFIG T/D	125	72.2	71.5	70.3	70.2	69.4	72.1	69.9	69.1	66.1	64.7	64.5	70.3	69.4	67.7	68.4	73.8	119.0
LOC PTO	160	67.0	65.2	67.3	65.7	64.9	65.8	66.8	65.6	64.1	62.4	62.4	63.9	66.2	63.4	63.0	68.6	115.0
DATE 7/26/74	200	73.0	74.0	73.1	71.0	70.3	70.1	69.0	66.9	65.9	64.2	62.0	62.3	63.9	65.4	63.2	66.7	117.5
RUN 415	250	79.8	79.3	79.2	78.0	76.9	75.8	74.7	73.6	70.9	67.2	66.2	66.2	68.3	69.3	71.8	68.8	123.3
TAPE AS02	315	80.1	80.1	80.3	79.9	79.2	77.9	76.2	73.9	72.9	70.2	68.0	66.9	68.3	67.3	67.9	67.8	124.8
BAR 28.9 HG	400	77.0	77.1	79.1	77.7	78.8	76.9	75.0	72.6	71.8	70.2	69.1	68.0	69.1	68.4	68.1	67.6	123.8
(97623. N/M2)	500	76.0	76.8	77.9	75.8	76.0	75.8	73.1	71.6	71.7	68.1	67.2	68.0	68.0	68.7	68.9	67.6	122.5
TAMB 72. DEG F	630	82.1	82.5	83.3	82.2	81.3	79.8	78.5	76.1	74.2	71.6	71.5	71.2	72.2	71.5	71.4	68.9	127.2
(295. DEG K)	800	81.2	82.1	83.4	81.0	81.2	80.7	80.1	78.3	77.0	73.0	73.3	72.2	76.3	72.3	72.0	69.9	128.1
INLET 68. DEG F	1000	83.2	82.5	83.6	82.0	82.3	82.2	82.3	78.4	76.0	73.5	73.5	74.4	74.1	72.2	70.2	69.0	129.0
(293. DEG K)	1250	86.1	86.3	86.4	85.8	86.0	85.0	84.4	81.2	81.0	78.5	78.5	77.0	77.2	76.6	72.2	70.7	132.2
WACT 16.10 GM/M3	1600	87.3	86.4	86.6	86.1	86.0	87.0	85.5	83.2	80.0	77.6	76.7	76.0	76.1	75.1	73.5	70.8	132.9
(.01610 KG/M3)	2000	86.1	89.3	89.5	89.1	89.2	88.4	88.3	87.1	82.2	79.5	78.4	77.2	78.2	76.6	74.4	72.1	135.6
NFA 6404. RPM	2500	91.2	91.3	93.1	91.0	90.2	92.0	89.6	88.1	84.8	81.2	78.2	76.0	80.3	77.0	77.1	72.8	137.8
( 670. RAD/SEC)	3150	94.4	92.3	93.6	91.2	93.2	93.9	91.4	91.3	89.2	85.4	80.7	80.3	80.3	78.4	75.3	73.9	140.0
NFK 6325. RPM	4000	95.2	97.3	97.3	94.9	93.2	92.9	93.9	92.6	90.2	83.4	81.1	82.3	80.1	77.0	76.2	76.8	141.8
( 662. RAD/SEC)	5000	95.4	97.5	96.5	96.2	98.4	99.3	97.1	95.0	95.1	89.6	86.5	83.3	85.4	81.5	79.3	75.8	145.3
NFD10628. RPM	6300	96.3	96.3	95.5	93.1	96.4	95.0	94.1	92.0	91.1	85.5	83.3	80.3	81.3	77.4	77.4	74.8	142.7
(1113. RAD/SEC)	8000	94.1	95.3	93.2	92.9	94.1	93.0	93.2	90.0	87.9	82.2	79.4	78.1	78.3	75.3	73.9	72.0	141.5
NO. OF BLADES 44	10000	94.0	94.2	92.1	90.8	92.9	92.6	90.8	88.7	85.7	82.0	78.0	75.8	75.7	72.9	73.0	72.7	140.9
12500	16000	90.7	91.6	89.8	88.3	89.7	90.3	89.2	86.2	83.5	78.7	74.4	72.3	72.4	70.4	68.5	69.3	139.7
18000	20000	87.2	88.3	85.2	84.9	86.0	85.9	85.0	81.9	80.0	75.2	70.0	69.1	67.7	64.9	65.0	64.8	137.6
OVERALL MEASURED		81.3	83.3	80.5	79.9	80.3	81.1	79.5	77.0	74.1	72.5	64.2	63.4	63.4	60.3	61.1	61.1	135.1
OVERALL CALCULATED		104.0	104.0	104.4	103.1	103.9	103.8	102.9	100.8	99.8	95.1	92.2	91.3	92.0	89.3	90.0	91.8	
PND8		103.9	104.7	104.1	102.7	104.0	104.0	102.7	100.8	99.4	94.6	91.6	90.2	91.0	88.4	87.1	86.4	151.5
		116.6	117.8	117.8	116.0	117.5	117.8	116.2	114.3	113.3	108.5	105.8	103.9	105.2	102.3	100.7		

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 18 HR. 22.7

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	50	80.0	81.0	78.0	78.7	77.9	77.6	75.2	76.9	76.9	75.6	74.6	74.9	73.8	77.4	77.7	80.0	126.6
	63	76.1	76.2	78.1	74.8	82.1	81.7	72.1	70.9	74.1	79.0	72.8	72.3	70.7	74.1	74.2	76.9	126.4
RADIAL 100. FT. ( 30. M)	80	71.5	72.8	71.0	71.6	71.7	71.4	71.7	71.6	72.5	72.4	71.6	68.6	68.3	68.9	70.0	72.6	121.1
VEHICLE ATT	100	71.1	70.1	71.0	69.6	70.8	70.6	68.9	70.3	68.7	67.9	67.6	68.0	68.9	69.1	68.9	71.9	119.3
CONFIG T/O	125	73.1	73.6	71.5	72.2	71.4	72.0	70.2	72.1	70.0	69.3	68.9	70.5	70.9	67.3	70.3	70.9	120.6
LOC PTO	160	78.1	72.9	68.2	72.0	75.8	74.7	67.9	74.8	71.1	66.9	70.0	75.0	74.9	74.2	76.0	71.9	123.2
DATE 7/26/74	200	71.2	72.0	71.2	69.7	73.1	69.8	68.0	68.1	65.8	64.8	64.8	65.3	65.7	66.1	65.3	67.7	118.0
RUN 416	250	78.2	78.1	78.1	77.0	76.1	75.9	74.4	72.9	71.2	69.8	68.7	69.3	69.1	70.6	70.3	69.7	123.1
TAPE A902	315	78.9	81.0	82.2	83.1	81.1	79.9	77.3	75.1	76.0	75.9	75.8	78.2	72.7	74.3	73.0	72.9	127.8
BAR 28.9 HG	400	74.8	77.2	77.2	76.7	78.0	76.9	75.0	72.1	71.7	74.0	70.6	72.2	74.6	72.2	71.9	70.7	124.4
(97625. N/M2)	500	76.8	77.0	77.1	76.8	80.7	79.8	78.0	74.9	76.7	78.0	75.0	76.0	74.7	74.1	76.0	74.3	127.2
TAMR 73. DEG F	630	84.1	83.3	83.7	82.9	86.3	88.4	86.3	87.0	89.2	86.2	85.4	87.6	85.3	83.3	88.5	87.2	137.0
(296. DEG K)	800	91.3	93.1	89.5	92.8	97.9	95.8	96.2	97.9	97.9	94.0	94.0	93.2	98.7	93.2	90.3	92.7	146.2
THET 69. DEG F	1000	93.5	89.4	93.6	96.0	100.0	102.3	102.6	98.1	98.1	97.0	94.3	97.4	97.1	91.7	87.3	86.9	148.4
(294. DEG K)	1250	94.9	97.4	103.5	103.5	103.1	101.9	96.4	93.1	91.2	91.8	91.8	95.1	91.0	86.2	87.1	88.0	147.8
FACT 15.82 GM/M3	1600	99.1	100.2	98.4	97.9	97.9	97.0	98.3	98.0	97.1	97.0	93.2	92.5	92.0	86.6	88.4	82.8	146.5
(.01682 KG/M3)	2000	100.1	98.3	100.6	98.0	97.2	97.1	97.4	98.4	98.2	96.3	95.2	90.3	90.0	85.4	89.5	84.0	146.6
AFA 7493. RPM	2500	95.9	99.0	100.1	99.0	97.9	100.0	96.3	96.1	93.7	91.7	89.9	87.1	88.8	83.4	85.2	80.8	145.7
( 952. RAD/SEC)	3150	97.3	96.5	97.2	97.3	97.2	101.1	98.5	97.1	95.1	92.2	88.4	89.4	87.0	83.6	84.3	81.1	146.1
AFK 7097. RPM	4000	97.0	100.3	98.3	96.8	93.9	96.8	96.3	96.8	94.2	89.8	87.1	87.1	83.7	81.1	79.0	79.0	144.7
( 940. RAD/SEC)	5000	95.2	97.4	96.5	96.2	98.3	98.2	96.6	95.3	95.1	91.3	89.1	85.3	86.4	82.7	80.3	76.8	145.2
AFD 10628. RPM	6300	96.5	96.6	95.4	93.3	96.2	94.3	94.6	92.3	91.3	89.1	85.0	82.3	81.3	78.9	79.4	77.0	142.9
(1113. RAD/SEC)	8000	94.2	95.2	94.3	93.1	93.8	93.9	94.3	92.2	89.3	86.9	82.7	81.2	80.0	77.3	76.0	73.7	142.5
NO. OF BLADES 44	12500	92.1	93.1	91.3	89.9	91.7	92.6	90.1	88.8	86.8	84.6	81.7	78.9	76.7	73.9	74.0	72.5	140.6
	16000	89.4	89.5	87.8	86.7	88.3	89.5	87.5	86.5	84.2	81.1	78.1	75.6	74.2	70.6	69.5	69.2	138.8
	20000	86.0	87.0	84.1	83.8	84.6	84.8	84.7	82.8	79.7	77.8	73.8	71.9	69.6	65.2	67.1	64.8	137.1
OVERALL MEASURED		80.0	80.9	79.4	77.8	79.9	80.7	79.3	78.1	75.2	74.9	69.7	67.3	65.8	62.1	63.2	61.0	135.0
OVERALL CALCULATED		106.9	108.2	109.1	108.0	108.8	108.8	107.3	107.0	106.1	104.1	102.1	101.6	103.0	98.3	97.0	97.6	
PNOB		119.7	121.4	121.0	120.2	120.4	122.2	120.4	119.3	117.8	115.9	114.0	112.5	111.7	107.8	109.0	106.1	156.8

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.2	79.1	77.0	78.8	77.9	77.9	76.9	77.3	76.6	76.8	74.5	73.9	75.4	74.9	74.7	78.6	126.5	
63	77.2	77.2	78.4	74.1	81.2	81.0	73.1	71.4	73.9	78.9	73.0	73.4	73.5	72.9	73.2	77.9	126.2	
RADIAL 100. FT. (30. M)	80	71.8	72.6	71.7	71.5	71.6	72.4	71.6	72.0	72.7	71.7	71.6	68.6	67.5	69.6	69.9	73.2	121.2
VEHICLE A71	100	71.0	72.2	72.1	71.9	71.9	70.6	69.2	69.9	68.7	67.7	68.6	69.9	69.7	70.1	69.2	73.7	120.1
CONFIG T/O	125	73.2	73.2	71.4	72.2	71.1	71.2	69.2	71.2	70.0	69.4	68.9	70.6	71.3	68.4	70.2	72.9	120.5
LOC PTO	160	76.9	73.9	71.1	72.9	70.9	74.1	69.9	77.0	72.8	65.7	68.6	73.3	77.6	77.0	75.9	74.5	124.1
DATE 7/26/74	200	71.0	71.3	71.5	69.9	70.0	70.0	68.3	68.0	66.8	65.9	66.0	66.1	66.7	68.0	67.2	68.7	118.1
RUN 415	250	78.1	77.2	77.2	76.2	76.0	74.8	74.0	73.4	71.2	68.8	68.1	69.4	70.8	70.1	70.2	69.9	122.8
TAPE A902	315	80.1	81.1	81.3	81.3	80.0	81.9	81.2	82.0	80.1	75.8	71.1	79.1	78.9	80.1	78.1	72.8	129.7
BAR 28.9 HG	400	75.1	76.2	80.0	81.9	78.3	76.7	76.9	78.0	75.0	73.7	71.6	74.3	74.8	74.3	72.9	70.6	126.4
(97625. N/M2)	500	80.9	81.0	88.2	90.9	86.2	85.9	87.1	89.3	84.8	82.7	80.7	82.2	80.7	82.9	79.8	74.5	135.6
TAMP 74. DEG F	630	84.4	87.7	83.5	86.2	97.7	95.2	97.5	98.5	97.2	94.4	96.0	91.7	90.4	81.4	83.4	88.2	145.0
(296. DEG K)	800	92.2	88.4	87.2	98.3	100.5	100.9	102.3	98.3	101.8	100.1	95.8	92.1	98.7	95.4	86.3	87.9	149.1
TWET 70. DEG F	1000	92.5	96.5	94.4	95.2	99.3	103.3	100.4	103.3	100.1	96.3	97.0	87.3	96.2	94.4	95.2	98.0	149.2
(294. DEG K)	1250	96.1	98.2	100.2	97.2	97.2	101.1	101.0	97.3	96.1	91.9	88.8	89.5	91.0	86.3	86.1	79.8	146.7
WACT16.81 GM/M3	1600	98.3	100.1	101.6	99.1	97.2	99.1	95.5	93.2	92.0	98.1	88.4	85.1	89.0	83.5	86.1	80.0	144.9
(.01681 KG/M3)	2000	102.2	98.3	99.5	96.4	98.6	97.1	98.4	97.5	96.0	93.2	92.1	87.4	90.1	85.3	83.4	80.0	145.8
MFA 9388. RPM	2500	98.0	100.9	102.3	98.2	98.8	96.1	95.3	95.2	92.8	90.8	88.8	86.2	87.8	85.2	84.1	79.7	145.2
(983. RAD/SEC)	3150	96.2	96.5	97.7	95.0	98.2	98.2	94.2	93.3	91.3	89.2	87.0	86.4	85.0	82.5	81.6	78.2	143.8
MFK 9253. RPM	4000	97.2	99.3	98.6	97.2	93.2	93.1	95.2	93.2	90.1	88.2	84.7	84.0	81.9	79.4	78.2	78.0	143.0
(969. RAD/SEC)	5000	96.4	96.5	96.6	96.0	97.3	96.2	94.2	92.6	93.1	89.1	87.1	83.3	84.1	80.3	79.5	75.9	143.6
MFD10628. RPM	6300	96.2	96.6	95.2	92.4	95.1	92.4	91.6	90.4	89.5	87.4	83.9	81.3	81.2	77.4	79.4	75.1	141.5
(1113. RAD/SEC)	8000	93.1	94.3	93.3	91.3	92.1	92.0	91.5	89.2	87.1	84.9	81.8	80.1	78.8	76.2	74.9	73.0	140.5
NO. OF BLADES 44	12500	88.9	88.6	87.9	85.6	86.2	87.6	85.4	83.4	81.2	79.2	76.3	73.5	73.3	69.6	69.6	68.1	136.9
	16000	85.0	85.1	84.1	81.7	83.8	82.6	81.9	80.0	77.0	75.7	72.6	71.1	69.6	65.0	67.9	64.8	135.2
	20000	80.1	80.3	80.2	77.0	77.8	78.1	76.4	75.3	72.9	72.9	67.8	66.2	66.1	62.2	65.2	60.9	133.1
OVERALL MEASURED	108.0	108.0	109.3	107.0	108.2	108.9	108.0	107.1	106.1	103.9	102.9	99.1	102.0	99.0	98.0	96.0		
OVERALL CALCULATED	107.8	108.4	109.1	107.3	108.6	109.4	108.7	107.9	106.9	104.3	102.7	98.7	102.5	99.4	97.9	94.5	156.6	
PND8	120.7	121.4	122.2	119.7	120.7	120.6	119.1	116.1	116.7	114.1	112.4	109.9	111.4	108.3	107.6	104.0		

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	74.8	75.0	74.2	75.5	75.7	75.6	72.2	73.9	73.8	73.8	72.7	72.0	71.3	72.8	71.7	76.5	123.6
63	73.3	73.0	77.2	73.1	82.0	81.0	72.2	70.1	72.8	78.9	72.0	71.1	71.0	72.1	70.1	73.8	125.7
RADIAL 100. FT. ( 30. M)	80	69.6	69.4	68.7	69.3	69.9	70.3	68.8	68.6	67.4	68.5	69.6	68.6	66.6	68.0	66.6	118.6
VEHICLE ATT	100	70.2	68.7	68.4	68.7	71.1	68.7	66.2	67.0	67.1	68.8	68.9	68.8	68.6	69.4	70.8	118.6
CONFIG T/O	125	71.5	70.9	68.4	69.9	70.4	72.3	69.4	66.2	68.1	67.0	68.4	71.3	70.0	70.5	71.4	119.8
LOC P/O	160	66.9	64.6	66.3	65.6	65.1	66.0	66.3	65.2	64.0	62.7	64.0	63.7	65.1	64.0	63.8	114.7
DATE 7/26/74	200	72.3	73.1	72.4	70.0	69.9	69.7	67.1	67.0	65.9	63.7	62.0	62.1	64.0	64.2	63.4	116.9
RUN 420	250	79.3	78.9	78.2	77.0	75.7	75.2	73.1	72.2	70.0	67.1	66.9	66.1	66.8	67.6	69.2	122.3
TAPE A902	315	80.2	79.0	79.4	79.0	78.1	76.7	73.2	73.0	71.7	70.1	67.8	67.4	68.1	67.3	67.3	123.7
BAR 28.9 HG	400	76.0	76.9	78.2	76.9	76.7	75.5	72.1	72.1	70.9	70.9	70.7	70.0	70.9	68.2	68.1	123.0
(97662. N/M2)	500	75.9	77.0	77.0	75.8	74.9	73.9	70.9	71.0	69.7	70.6	68.7	69.0	67.8	68.1	67.8	121.8
TAMR 75. DEG F	630	83.3	83.3	83.5	82.2	81.3	79.2	76.7	76.4	74.3	73.1	73.2	71.4	72.3	71.5	72.5	127.3
(297. DEG K)	800	80.3	82.0	83.5	81.9	81.1	79.3	79.1	79.1	76.0	73.9	73.9	73.3	74.0	72.1	71.3	127.9
THET 70. DEG F	1000	82.3	82.5	83.4	82.0	81.3	82.0	80.4	78.3	76.2	74.2	73.9	74.2	73.0	72.4	70.3	128.5
(294. DEG K)	1250	86.3	84.3	86.3	86.1	86.2	87.1	85.3	83.3	82.8	80.2	78.0	79.4	77.9	76.3	73.1	133.2
MACT 14.96 GM/M3	1600	86.5	87.4	88.4	86.2	86.3	86.8	85.3	83.4	81.0	78.3	77.1	76.4	76.9	75.7	73.4	133.3
(.01696 KG/M3)	2000	87.4	88.8	89.5	90.2	89.6	88.2	88.5	88.5	85.3	83.2	80.2	78.4	78.1	76.4	74.5	136.4
NFA 7511. RPM	2500	91.2	92.2	93.1	93.5	91.0	92.0	88.9	89.0	87.0	84.0	81.0	78.2	79.7	76.5	77.0	138.6
( 786. RAD/SEC)	3150	94.4	92.5	93.4	91.1	94.4	94.3	91.6	90.5	88.2	85.1	82.1	80.7	80.1	77.7	76.5	140.2
NFK 7398. RPM	4000	95.2	97.2	97.5	93.9	91.3	92.1	93.1	93.0	88.1	84.0	81.1	82.4	78.6	77.6	74.9	141.2
( 775. RAD/SEC)	5000	95.5	96.4	96.4	95.3	98.2	98.3	95.5	94.4	95.3	89.2	86.4	83.6	84.2	81.5	78.7	144.7
NFD 10428. RPM	6380	96.5	95.4	95.7	93.2	96.2	95.4	93.6	92.3	90.1	86.4	83.3	80.4	80.1	77.5	77.6	142.6
(1113. RAD/SEC)	8000	94.5	95.6	93.3	93.0	93.2	94.1	92.1	90.1	88.1	82.8	81.0	79.2	77.0	75.2	73.4	141.4
NO. OF BLADES 44	10000	94.1	93.1	92.3	90.7	92.8	92.9	90.0	88.9	85.8	81.9	79.1	76.9	74.9	72.2	72.2	140.8
16000	12500	91.7	91.5	89.6	88.3	88.7	90.3	87.6	85.7	83.4	79.3	75.5	72.5	72.2	69.5	68.5	139.2
20000		87.4	87.2	85.3	84.6	95.4	85.6	84.2	81.9	78.7	75.8	70.0	68.9	67.9	64.4	64.9	137.2
OVERALL MEASURED		82.4	81.3	80.2	79.2	80.2	80.9	78.4	77.1	73.1	72.9	63.9	64.1	64.1	62.3	63.1	134.6
OVERALL CALCULATED		104.3	104.4	104.3	103.0	103.9	104.0	102.4	101.3	99.8	95.9	93.2	91.6	81.8	89.5	89.2	93.0
PWDB		116.6	117.6	117.9	115.7	117.3	117.4	115.1	114.1	113.4	108.8	106.4	104.5	104.4	102.3	100.4	98.4

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
RADIAL 100. FT.	50	74.7	76.0	74.0	75.5	75.9	75.8	73.8	74.1	73.8	71.8	71.9	72.5	72.0	71.0	75.3	123.6
( 30. M)	63	72.9	72.2	77.4	71.7	82.0	80.9	71.3	69.9	72.1	79.0	70.5	70.1	69.7	72.1	69.3	125.4
VEHICLE ATT	80	68.8	69.8	68.1	68.6	68.5	70.3	70.1	68.7	67.6	68.5	69.5	67.8	66.3	67.6	66.7	118.6
CONFIG T/O	100	69.8	69.1	68.4	67.8	70.2	68.7	67.2	67.2	66.7	66.9	66.6	65.0	65.7	67.2	66.9	117.3
LOC PTD	125	71.1	71.4	69.7	70.4	69.1	72.1	70.2	69.1	66.8	64.9	65.9	69.3	68.9	66.6	67.3	118.7
DATE 7/26/74	160	68.1	65.4	67.0	66.9	65.1	65.7	67.1	66.2	63.8	62.0	63.6	64.1	64.9	63.4	62.9	114.9
RUN 421	200	73.0	73.2	72.1	70.1	69.9	70.2	68.0	67.3	65.8	63.7	63.8	62.1	63.7	64.4	63.2	117.1
TAPE A902	250	79.1	79.1	78.2	77.0	77.1	76.0	75.0	74.0	70.9	68.0	67.1	67.1	66.7	68.2	69.5	123.2
BAR 28.9 HG	315	79.9	80.2	80.3	79.9	78.9	77.8	75.0	74.1	72.7	70.0	68.7	67.0	67.9	67.0	67.8	124.6
(97662. N/H2)	400	76.9	79.0	81.1	78.5	79.1	78.0	75.4	74.3	71.7	70.9	71.7	70.2	70.6	68.2	68.0	124.9
TAMB 75. DEG F	500	75.9	77.0	76.9	74.9	74.7	74.6	72.8	72.2	69.8	69.7	67.6	68.2	67.6	68.1	67.7	121.9
(297. DEG K)	630	82.2	82.6	82.6	82.0	81.2	79.3	77.2	76.2	74.3	72.0	72.2	70.2	70.9	70.4	72.1	126.9
TWET 70. DEG F	800	81.1	81.3	83.0	81.0	81.1	80.8	78.1	78.2	75.8	72.8	72.8	72.0	73.2	71.2	70.2	127.6
(294. DEG K)	1000	82.2	82.4	83.3	82.0	82.3	82.2	81.3	79.5	78.0	74.2	72.9	73.7	73.0	72.5	70.2	128.8
MACT 16.96 GM/H3	1250	85.3	85.4	85.2	85.1	84.2	85.9	84.1	82.2	81.0	78.9	75.9	77.1	76.1	75.3	73.2	132.0
(.01696 KG/H3)	1600	86.4	87.4	86.3	85.9	85.3	86.1	84.4	83.2	81.3	78.0	77.3	76.2	76.0	74.4	73.1	132.6
MFA 7507. RPM	2000	86.2	88.7	89.5	89.1	87.5	88.2	86.5	87.2	84.1	81.1	79.0	77.5	78.1	75.4	74.4	135.3
( 786. RAD/SEC)	2500	91.0	91.4	92.2	90.9	90.9	92.8	89.1	88.1	86.0	82.1	80.1	78.1	80.0	76.4	79.2	138.1
AFK 7394. RPM	3150	93.3	92.5	93.8	91.3	94.4	94.1	91.4	91.6	89.1	85.2	81.3	80.3	79.9	77.6	76.4	140.4
( 774. RAD/SEC)	4000	94.9	97.5	97.4	95.0	91.2	92.8	93.5	92.2	88.8	84.3	80.8	82.2	78.8	76.5	74.8	141.4
MFD10428. RPM	5000	95.5	96.7	95.7	96.3	98.4	98.3	97.4	95.5	95.0	90.3	88.0	83.3	84.1	81.4	79.3	145.2
(1113. RAD/SEC)	6300	96.6	95.8	95.5	93.2	96.3	94.2	93.7	92.6	91.2	86.2	84.0	79.7	80.9	77.5	77.3	142.6
NO. OF BLADES 44	8000	94.1	95.7	93.5	92.9	93.3	93.1	92.4	90.2	88.2	82.9	80.0	78.2	77.6	76.0	74.0	141.3
	12500	91.6	90.7	89.1	88.2	88.8	89.5	88.4	86.3	83.6	79.5	75.4	72.6	72.2	69.5	69.7	139.2
	16000	87.3	88.2	85.2	84.5	86.0	85.6	84.2	82.9	79.9	75.9	69.8	67.1	67.4	65.0	65.1	137.5
	20000	82.2	82.1	80.2	80.0	80.1	80.9	79.1	77.2	74.1	72.0	64.8	63.1	63.9	62.4	62.1	134.9
OVERALL MEASURED		104.3	104.4	103.4	103.0	103.9	104.1	102.2	101.2	99.8	96.1	93.1	91.3	81.8	89.2	89.4	91.0
OVERALL CALCULATED		103.8	104.5	104.0	102.7	103.8	103.7	102.4	101.1	99.4	95.1	92.5	90.2	90.2	88.0	87.3	85.8
PND8		116.3	117.8	117.7	116.1	117.3	117.3	116.0	114.6	113.3	109.2	106.9	104.0	104.3	102.0	100.8	98.8

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	79.9	80.7	79.0	78.9	79.7	78.8	76.8	78.8	77.9	75.8	74.5	76.1	77.7	79.8	79.1	79.5	127.9
63	77.1	76.9	78.5	74.8	81.9	81.8	73.1	74.0	73.8	79.0	73.7	73.3	74.1	76.2	75.9	76.6	126.9
RADIAL 100. FT. (30. M)	80	71.4	71.9	70.7	70.4	71.5	71.6	71.0	71.7	71.4	71.2	68.6	67.3	69.5	70.6	71.4	120.7
VEHICLE ATT CONFIG T/O	100	71.7	70.3	70.5	69.9	71.8	69.7	68.9	70.2	68.7	67.8	68.6	68.2	69.0	71.0	69.9	119.5
LOC PTO	125	73.3	72.6	70.7	71.0	70.5	71.0	68.2	69.5	69.0	68.4	67.9	69.5	70.9	68.3	70.2	119.6
DATE 7/26/74	160	77.6	71.3	70.2	72.5	72.1	75.1	67.9	73.9	70.7	66.9	70.6	74.9	75.9	73.1	74.1	122.7
RUN 422	200	72.0	72.4	71.3	69.5	69.9	70.0	68.2	68.0	68.9	64.8	64.8	64.9	66.0	66.2	66.2	117.8
TAPE A902	250	77.8	78.5	77.6	76.9	76.1	75.8	74.4	72.0	70.9	69.2	69.1	69.0	69.0	70.0	69.4	122.9
BAR 28.9 HG	315	80.8	80.0	82.3	82.6	80.1	78.8	75.3	76.1	75.8	75.9	76.0	78.2	73.1	75.1	72.0	127.5
(97662. N/M2)	400	76.0	77.0	77.2	76.5	78.1	76.8	73.0	73.0	72.2	73.7	69.8	70.9	73.8	72.1	72.9	124.2
TAMB 77. DEG F	500	76.9	77.9	77.0	75.8	80.7	79.6	76.0	76.2	76.8	78.1	73.5	75.2	75.8	74.0	77.0	127.0
(298. DEG K)	630	84.0	81.5	82.6	84.0	87.5	88.4	86.6	87.3	89.2	86.0	84.1	86.6	84.9	82.5	88.4	136.6
TMET 71. DEG F	800	91.9	91.4	91.5	94.1	100.2	96.9	98.2	98.3	98.9	94.8	95.0	95.2	99.1	92.3	91.3	147.1
(295. DEG K)	1000	93.4	89.8	96.0	97.3	101.1	104.3	102.6	98.5	98.3	96.3	93.3	96.5	97.2	91.3	88.4	149.0
WACT 17.27 GH/M3	1250	94.0	97.3	104.5	102.1	103.3	102.2	99.1	93.2	94.0	91.1	91.8	94.1	90.8	87.2	86.1	148.1
(101727 KG/M3)	1600	99.1	99.2	99.5	98.2	98.3	98.0	96.5	97.3	97.3	96.2	93.8	93.2	93.0	89.1	83.4	146.5
WFA 9108. RPM	2000	101.3	97.4	101.9	98.2	98.2	100.2	98.6	99.5	99.2	97.1	97.2	92.4	91.1	86.3	89.3	147.9
(954. RAD/SEC)	2500	97.2	99.0	101.6	97.2	98.9	98.9	96.3	96.3	94.9	90.8	89.8	86.3	88.0	84.1	85.0	145.7
WFK 8954. RPM	3150	98.5	96.4	97.5	96.2	99.4	102.0	97.6	96.6	94.5	92.2	88.5	87.2	87.1	83.2	85.6	146.3
(937. RAD/SEC)	4000	98.1	99.3	99.6	95.9	95.1	96.8	97.3	96.2	92.9	88.9	85.9	86.2	84.8	80.3	79.0	144.7
WFD 10628. RPM	5000	96.5	97.6	96.7	96.2	98.1	99.6	95.8	94.5	95.3	90.4	89.1	84.4	86.1	82.4	79.5	145.3
(1113. RAD/SEC)	6300	97.8	98.6	95.7	93.2	96.3	95.4	94.3	92.4	91.2	89.4	86.0	82.3	82.2	78.3	79.2	143.1
NO. OF BLADES 44	8000	94.4	95.4	93.7	93.2	94.4	95.2	93.3	92.2	90.2	87.3	84.0	81.1	80.1	77.4	76.3	142.7
16000	10000	92.9	93.2	91.5	88.7	92.8	92.8	90.2	88.9	86.9	84.8	81.8	78.1	77.6	73.8	74.7	140.9
20000	12500	89.5	89.7	87.8	86.5	88.6	89.5	87.6	86.4	84.4	82.1	78.2	74.8	74.4	70.6	70.3	138.9
OVERALL MEASURED	16000	86.0	86.1	84.1	83.5	86.0	85.9	83.9	82.8	79.7	78.7	74.0	72.0	70.0	66.2	65.9	137.4
OVERALL CALCULATED	20000	81.0	81.0	79.6	78.1	79.3	81.1	79.4	78.3	74.9	74.1	70.0	67.1	66.1	61.1	62.4	135.0
PWDR	108.0	107.4	109.4	107.8	109.1	109.8	108.2	106.3	106.5	103.8	102.9	102.3	103.6	97.9	98.0	96.9	
	108.1	107.8	110.1	107.9	109.8	110.6	108.5	107.1	106.7	104.0	102.7	102.3	103.2	97.9	97.8	96.3	157.2
	120.7	120.8	122.1	119.5	121.6	123.1	120.0	119.0	118.4	116.0	114.9	112.4	112.0	108.1	109.0	105.8	



MODEL SOUND PRESSURE LEVELS (59 DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	79.0	80.0	78.1	78.8	79.0	78.6	76.9	78.2	77.8	76.8	74.5	74.1	74.8	75.9	75.0	78.6	126.9
63	79.1	79.1	79.4	74.8	81.8	81.0	73.3	73.1	74.1	79.2	72.8	73.3	74.0	75.2	75.0	78.9	126.8
RADIAL 100. FT. ( 30. M)	80	71.3	73.6	72.8	71.6	71.9	72.7	71.9	72.4	72.6	72.3	68.5	67.4	69.8	69.9	73.2	121.5
VEHICLE ATT	100	71.9	72.2	72.4	71.0	71.8	70.9	68.9	68.9	69.0	67.7	68.6	68.9	70.0	70.1	70.0	71.8
CONFIG T/O	125	72.4	72.5	71.4	71.4	71.2	71.0	68.5	69.3	69.3	69.4	69.3	70.2	70.9	68.2	70.4	71.1
LOC P10	160	75.0	71.2	71.1	72.7	73.0	75.9	71.0	77.1	73.7	66.8	73.6	73.9	76.7	74.5	72.1	73.6
DATE 7/26/74	200	72.9	71.0	70.4	69.7	70.2	69.7	66.0	68.0	65.8	65.7	66.1	66.1	66.7	67.0	67.0	67.7
RUN 423	250	77.0	76.3	76.5	75.9	74.9	74.9	73.5	72.3	70.9	68.8	68.0	69.0	69.8	71.2	71.0	69.9
TAPE A902	315	81.1	79.2	81.4	78.9	82.1	84.8	81.9	83.8	81.9	77.7	74.0	81.0	81.9	82.3	81.3	74.7
BAR 28.9 HG	400	76.0	78.1	80.1	80.8	77.1	77.8	76.9	78.0	75.0	72.0	71.6	73.9	76.7	75.2	73.1	70.6
(97662. N/M2)	500	82.8	84.1	88.2	90.9	84.0	86.6	87.2	88.7	84.0	79.8	79.5	82.8	84.6	85.1	78.0	74.5
TAMB 77. DEG F	630	86.2	87.6	82.5	85.3	94.3	94.4	96.3	97.4	96.3	93.3	93.9	91.5	91.2	82.5	86.3	89.0
(298. DEG K)	800	94.3	87.1	87.5	98.8	100.3	101.9	102.0	98.2	101.1	96.9	93.8	94.3	98.1	94.4	89.1	88.0
TWET 71. DEG F	1000	90.3	95.2	92.8	95.2	99.3	102.4	102.3	103.2	100.0	96.0	97.5	90.6	97.3	95.6	94.5	87.0
(295. DEG K)	1250	95.3	95.3	98.7	96.9	96.3	99.1	98.0	95.0	92.9	87.1	85.6	87.0	85.7	84.3	87.1	80.9
MACT 17.27 GM/M3	1600	99.2	99.4	100.7	99.2	97.2	98.2	95.1	95.3	92.4	90.0	88.1	87.4	87.1	83.5	83.1	80.0
(.01727 KG/M3)	2000	102.3	99.3	98.9	97.2	97.2	98.3	97.2	96.5	94.3	92.3	90.0	87.5	90.4	84.4	82.5	79.3
NFA 9435. RPM	2500	98.3	101.0	101.3	97.0	97.7	95.9	95.0	94.2	93.1	90.9	87.7	86.2	86.8	83.1	84.0	78.7
( 988. RAD/SEC)	3150	96.5	96.4	98.7	94.1	96.2	97.3	93.5	92.7	91.4	89.5	86.2	84.2	84.2	82.7	82.3	78.1
AFK 9275. RPM	4000	97.3	100.0	99.4	97.0	93.0	93.1	94.3	93.2	89.9	86.0	83.9	83.9	81.7	80.1	77.0	76.9
( 971. RAD/SEC)	5000	96.8	97.6	95.6	95.3	96.5	96.3	94.7	92.5	92.5	89.0	86.2	82.5	84.0	80.7	78.7	74.3
NFD10628. RPM	6300	96.6	95.7	94.7	91.3	93.6	92.2	91.5	89.5	88.6	86.1	83.0	80.6	80.1	76.7	78.7	74.9
(1113. RAD/SEC)	8000	93.3	94.2	92.5	91.0	92.3	92.0	90.6	89.3	86.9	82.9	80.8	79.1	77.9	75.2	74.0	71.8
NO. OF BLADES 44	12500	88.5	88.8	84.7	84.4	86.5	86.2	84.8	82.8	80.4	78.5	76.1	73.8	73.2	68.6	68.7	66.4
OVERALL MEASURED	16000	85.1	85.2	83.1	81.6	83.0	81.7	81.0	80.0	76.7	75.0	71.9	70.0	68.8	65.1	66.0	63.7
OVERALL CALCULATED	20000	80.1	80.4	76.6	76.9	77.1	77.3	75.5	74.5	71.3	71.9	67.1	66.1	66.1	61.6	61.4	62.1
PND8	108.2	108.2	108.6	106.8	107.2	109.0	108.2	107.3	105.9	103.0	102.0	99.4	102.0	99.3	98.0	97.0	156.1
	108.1	108.3	108.3	107.1	107.8	108.9	108.3	107.5	106.2	102.7	101.7	99.4	102.3	99.4	97.8	94.5	
	120.9	121.4	121.3	119.4	119.4	120.2	118.4	117.5	116.0	113.3	111.1	109.5	111.0	108.3	107.3	103.6	

	ANGLES FROM INLET IN DEGREES (AND RADIAN)															PWL		
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	77.8	80.1	76.9	78.6	78.6	78.8	77.3	77.8	77.6	76.9	74.5	73.9	74.5	76.0	74.8	79.5	126.8	
63	77.4	78.1	79.1	75.7	81.9	81.0	74.1	74.1	73.2	78.8	73.7	72.9	75.0	77.4	74.2	78.7	126.9	
RADIAL 100. FT. (30. M)	80	71.7	72.6	71.6	71.4	71.6	72.4	71.7	70.6	71.7	71.7	71.3	68.6	67.6	69.4	70.5	74.2	121.0
VEHICLE ATT	100	71.9	73.0	73.3	72.0	71.8	71.0	70.2	71.2	68.7	67.6	68.9	69.9	69.7	69.9	70.3	72.8	120.4
CONFIG T/O	125	72.1	72.4	71.9	71.2	71.4	71.0	70.6	71.6	69.0	69.4	69.2	70.6	70.0	68.4	70.2	71.8	120.4
LOC PTO	160	76.9	76.1	72.0	69.0	73.1	78.7	75.2	78.2	78.7	66.8	76.9	76.2	73.1	77.2	71.1	72.7	125.8
DATE 7/26/74	200	71.8	72.3	71.3	70.1	70.0	70.8	68.3	71.6	67.8	66.1	67.6	67.0	68.0	68.2	67.0	68.7	118.9
RUN 424	250	77.2	76.3	77.3	75.6	75.9	76.0	73.2	74.0	71.8	69.8	70.1	69.0	70.7	70.9	71.1	70.8	123.1
TAPE A902	315	82.1	82.0	80.3	78.7	87.1	87.1	86.1	87.3	85.9	82.7	80.9	81.2	82.0	82.2	83.0	76.7	134.4
BAR 28.9 HG	400	74.2	76.9	78.2	76.7	78.0	79.9	75.1	77.2	75.7	75.9	71.6	72.9	76.7	75.1	72.0	70.6	126.2
(97662. N/M2)	500	81.0	82.9	88.1	84.7	88.1	92.8	84.0	89.1	86.6	89.1	81.5	83.0	87.7	85.1	75.0	79.5	137.4
TAMB 77. DEG F	630	82.9	87.4	87.2	88.1	87.2	95.0	93.5	96.5	97.2	94.2	88.3	92.7	93.0	85.3	85.5	84.0	143.3
(298. DEG K)	800	99.9	94.3	90.7	99.1	88.1	102.8	101.4	99.3	99.7	99.9	93.7	92.4	94.1	96.3	90.3	92.0	148.6
TWET 71. DEG F	1000	91.2	87.6	92.6	93.1	92.4	93.0	100.3	100.2	100.0	97.1	96.3	94.3	95.3	89.2	92.5	87.1	147.0
(299. DEG K)	1250	91.1	95.1	96.3	95.9	93.1	97.9	96.3	95.3	92.9	92.1	90.8	86.2	86.0	87.3	82.6	80.9	143.7
WACT 17.27 GM/M3	1600	97.3	100.1	101.6	99.2	96.2	96.0	97.5	93.3	93.0	93.1	87.9	88.3	88.0	83.5	83.2	81.0	144.9
(.01727 KG/M3)	2000	100.2	99.2	98.5	95.3	94.1	94.1	94.6	92.3	90.2	89.5	87.3	85.1	86.0	82.5	82.3	79.4	142.5
INFA 9583. RPM	3150	96.3	96.2	96.5	95.1	96.4	96.3	93.4	91.3	90.4	88.4	84.9	85.1	84.0	81.5	81.3	76.9	142.5
(1003. RAD/SEC)	4000	97.9	99.3	97.4	95.3	91.0	91.8	93.5	91.4	88.9	86.0	83.6	84.2	81.0	78.5	77.2	75.9	141.6
INFK 9421. RPM	5000	95.3	96.2	95.5	93.4	95.4	94.6	91.6	90.4	91.3	87.5	84.1	81.5	83.2	79.8	78.4	73.9	141.8
(986. RAD/SEC)	6300	96.3	95.4	93.6	91.3	93.5	90.5	90.5	88.5	86.2	85.3	82.2	80.3	80.3	76.4	78.7	73.8	139.8
NFD 10628. RPM	8000	93.2	94.4	91.3	90.3	90.1	90.0	89.3	87.1	84.8	81.8	79.8	79.6	78.0	75.4	74.3	71.7	138.7
(1113. RAD/SEC)	10000	91.2	91.1	89.2	86.7	88.9	87.8	85.9	84.1	81.7	80.9	77.9	74.8	74.6	71.1	72.0	69.7	136.9
NO. OF BLADES 44	12500	88.8	88.7	86.6	83.4	83.6	84.4	82.7	81.3	79.3	77.5	75.1	72.5	72.3	68.5	68.5	66.4	134.8
	16000	85.1	84.8	82.3	80.0	81.1	80.0	79.0	77.3	75.0	74.6	70.7	70.2	68.6	65.3	66.9	62.6	133.1
	20000	79.4	80.2	77.3	75.1	75.2	76.1	73.5	72.5	70.0	71.9	65.9	66.1	64.9	61.6	63.5	59.7	131.0
OVERALL MEASURED		107.0	108.0	107.4	106.1	105.1	107.1	107.4	106.3	105.1	103.8	100.9	100.3	100.9	99.1	97.1	96.6	
OVERALL CALCULATED		107.6	107.9	107.8	106.6	104.8	107.4	107.0	106.0	105.6	104.3	100.8	101.2	100.6	98.9	96.7	95.2	155.1
PNOB		120.0	120.9	120.7	118.9	118.2	119.0	117.3	116.2	115.1	113.5	110.7	110.2	109.6	108.3	106.3	104.6	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

	FREQ. (0.)	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
	50	78.8	80.7	77.9	78.9	79.2	79.0	77.1	79.1	78.8	77.7	75.6	74.8	74.7	76.9	75.7	81.0	127.6
	63	76.0	77.2	78.1	74.9	81.0	80.4	72.0	71.2	74.7	80.3	74.0	73.2	76.8	77.2	75.9	79.8	127.0
RADIAL 100. FT. (30. M)	80	72.6	74.7	71.7	71.5	72.5	71.7	70.6	70.7	72.4	72.6	71.5	67.6	68.5	74.8	71.6	76.2	121.5
VEHICLE ATT CONFIG T/O	100	73.1	73.8	72.5	70.6	69.8	69.8	67.9	67.4	67.0	67.7	69.7	70.1	69.6	70.1	68.9	74.5	119.7
LOC PTO	125	71.5	72.8	69.4	70.8	69.8	69.1	67.2	69.3	68.0	67.1	68.3	68.4	69.9	69.4	69.6	73.7	119.2
DATE 7/26/74	160	74.1	75.1	73.9	72.9	69.9	78.9	75.9	79.3	73.8	73.9	79.2	73.0	75.8	78.3	73.8	72.6	126.2
RUN 425	200	70.9	71.8	70.2	69.7	69.8	70.8	69.0	70.0	67.8	67.0	68.2	67.1	68.6	69.1	68.1	69.8	119.0
TAPE A902	250	76.4	76.2	76.3	75.0	74.1	74.0	73.0	72.0	71.0	68.8	68.2	68.3	70.0	71.2	71.0	70.7	122.0
BAR 28.9 HG (97662. N/M2)	315	82.1	80.2	85.4	85.0	83.2	84.1	79.1	85.0	86.0	81.0	74.8	78.1	81.9	80.9	82.1	81.0	132.7
TAMB 78. DEG F (296. DEG K)	400	75.2	75.4	77.4	77.0	75.7	76.8	75.2	75.1	74.9	73.6	71.7	72.2	75.7	74.2	74.9	72.6	125.0
TNET 71. DEG F (295. DEG K)	500	80.0	79.3	79.3	83.6	83.0	89.0	88.8	87.1	85.9	87.7	84.9	79.9	80.8	80.1	85.1	82.5	135.7
MACT16.67 GN/M3 (.01667 KG/M3)	630	88.6	88.8	87.5	88.2	87.3	93.4	93.9	96.2	93.3	92.0	91.4	91.3	92.8	84.5	87.4	80.9	142.2
NFA 9872. RPM (1034. RAD/SEC)	800	92.2	89.3	89.3	90.8	93.9	99.0	99.3	98.0	99.0	93.8	93.0	90.4	89.5	87.0	89.3	83.0	145.7
NFK 9701. RPM (1016. RAD/SEC)	1000	89.2	87.8	88.9	87.3	89.1	91.1	93.6	93.3	93.1	91.3	92.4	89.5	87.0	81.5	79.3	78.0	141.0
NFD10628. RPM (1113. RAD/SEC)	1250	89.5	92.6	91.3	92.9	91.3	92.9	91.1	89.1	85.9	86.9	87.2	83.0	84.1	51.4	80.1	77.9	139.1
NO. OF BLADES 44	1600	92.2	95.5	96.6	92.2	91.1	91.3	92.5	93.1	89.9	87.2	89.1	87.2	86.0	84.3	83.4	76.0	140.9
	2000	94.5	94.4	93.4	92.1	90.4	91.4	89.3	87.2	86.3	85.3	84.2	82.3	84.2	79.7	80.5	75.0	138.4
	2500	94.0	94.5	93.4	94.1	91.2	91.1	87.1	88.1	87.1	85.0	82.9	81.1	81.9	79.2	80.0	75.9	138.7
	3150	93.3	92.7	93.4	90.1	91.2	90.1	87.8	87.3	86.1	83.1	81.4	81.3	80.0	78.8	78.3	73.9	137.8
	4800	92.0	94.4	93.2	90.0	85.9	86.1	87.3	87.1	84.1	80.8	78.9	80.0	77.8	76.4	74.8	73.6	136.6
	5000	90.6	91.4	90.7	89.0	90.2	89.4	86.3	86.5	86.1	82.4	81.3	78.7	80.1	76.7	76.4	71.3	137.0
	6300	91.4	90.5	89.6	88.4	88.2	85.5	84.5	82.6	81.3	80.5	78.5	76.8	76.3	74.6	77.5	71.3	134.8
	8000	87.5	89.2	86.3	85.0	85.1	84.2	83.3	82.4	80.4	78.0	77.0	77.1	76.0	74.4	75.0	70.0	133.8
	10000	86.1	86.0	84.5	80.9	82.9	82.0	79.3	79.3	77.9	75.9	74.9	72.9	71.8	69.1	70.7	67.6	131.7
	12500	82.4	82.6	80.1	78.8	78.5	78.7	76.6	75.7	73.4	72.3	71.3	70.7	70.5	66.6	66.4	64.6	129.4
	16000	79.0	78.1	76.2	74.9	76.1	74.8	72.9	72.2	70.8	70.8	67.8	69.2	67.7	65.3	66.3	62.7	128.2
	20000	74.4	73.2	71.6	69.3	69.5	69.3	67.3	67.8	65.4	69.3	63.4	64.5	64.4	62.3	62.4	60.9	126.0
OVERALL MEASURED		102.3	103.0	102.2	101.8	101.3	103.9	103.1	103.0	101.8	99.8	99.1	97.3	97.6	94.2	95.3	95.0	
OVERALL CALCULATED		102.7	103.5	103.1	101.7	101.3	103.4	103.1	103.0	102.3	99.4	99.0	97.1	97.9	94.1	93.8	91.2	151.3
PNDR		115.7	116.6	115.9	114.9	113.9	114.1	112.7	112.5	111.7	108.9	108.3	106.7	106.9	104.3	104.3	100.9	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	79.9	82.2	79.1	80.7	80.9	79.9	78.9	79.9	79.8	78.9	76.9	75.9	76.6	77.2	78.0	80.6	128.8	
63	81.4	82.3	80.5	78.8	82.3	81.9	74.0	74.0	76.8	80.9	76.6	78.2	73.7	75.4	79.4	78.8	128.5	
RADIAL 180. FT. (30. M)	80	73.5	74.8	71.7	71.5	71.6	71.4	69.6	69.6	72.7	72.6	72.5	68.8	68.3	70.6	71.7	76.4	121.5
VEHICLE ATT CONFIG T/D	100	71.1	70.0	70.2	69.7	68.0	68.7	67.2	67.1	67.9	68.1	69.9	69.3	69.6	69.0	70.1	74.8	119.3
LOC PTD	125	70.3	68.5	68.3	68.2	70.4	69.5	67.2	69.5	68.4	67.0	70.0	68.5	71.1	71.4	73.3	75.0	120.1
DATE 7/26/74	160	67.1	69.2	70.2	74.9	76.1	77.9	75.8	80.3	73.7	70.8	67.7	68.0	69.8	74.3	73.1	72.7	124.7
MUN 426	200	68.3	71.1	72.3	76.0	77.9	79.2	77.4	82.2	75.0	71.9	68.8	69.1	70.7	74.2	73.9	70.8	126.1
TAPE A902	250	68.0	68.5	69.2	67.8	67.9	68.8	68.0	67.4	65.9	68.8	67.7	68.3	69.9	70.1	69.3	69.6	118.4
BAR 28.9 HG (97669. N/M2)	315	70.0	69.3	72.1	72.0	73.0	71.2	69.0	69.3	68.9	68.8	70.7	71.1	72.9	73.2	72.2	70.6	121.2
TAMB 78, DEG F (298, DEG K)	400	70.1	74.1	74.9	74.9	73.7	71.8	71.2	68.9	70.0	69.9	70.7	72.1	74.9	74.2	73.2	70.8	122.5
THET 71, DEG F (295, DEG K)	500	72.1	73.9	75.1	75.8	73.9	72.7	72.3	73.9	73.8	72.8	71.7	72.0	73.4	76.2	75.0	73.4	123.9
WACT 16.67 GH/M3 (101667 KG/M3)	630	71.2	73.3	75.6	76.0	74.1	73.3	72.5	72.2	72.3	72.2	73.1	71.4	73.1	75.4	75.5	72.9	123.7
WFA 10690. RPM (1119. RAD/SEC)	800	72.2	73.0	77.2	79.0	75.2	74.1	74.3	73.2	72.9	72.0	73.6	71.2	73.0	73.2	73.1	69.7	124.2
WFD 10628. RPM (1113. RAD/SEC)	1000	72.6	73.5	74.6	75.4	74.3	74.0	73.4	74.2	72.0	72.2	73.8	74.0	73.2	74.3	73.4	69.9	123.9
NO. OF BLADES 44	1250	73.2	75.1	76.4	77.2	76.0	75.0	74.1	73.9	73.9	74.0	73.9	76.0	75.9	74.3	74.1	69.9	125.2
	1600	72.2	74.4	76.5	77.3	76.0	75.2	74.4	75.2	73.9	73.2	73.9	76.4	75.9	75.4	74.4	68.8	125.5
	2000	72.3	75.3	76.4	79.5	78.2	76.1	74.3	75.1	74.0	73.9	74.8	76.5	76.2	76.5	76.3	70.1	126.5
	2500	74.0	76.2	78.5	81.1	80.1	77.1	74.2	74.0	74.8	73.9	75.7	77.2	77.2	78.1	78.3	71.8	127.6
	3150	73.6	73.5	77.6	78.2	78.4	76.3	74.5	75.1	73.3	74.2	73.2	77.4	74.0	76.7	76.3	71.1	126.5
	4000	73.3	77.5	79.3	77.8	76.1	75.0	74.2	74.2	72.8	71.8	73.6	77.2	74.7	77.1	76.3	71.9	126.4
	5000	72.4	74.5	76.3	78.2	77.6	78.3	75.6	75.4	75.1	74.1	76.1	77.2	77.2	76.8	75.4	69.1	127.5
	6300	74.2	74.6	77.7	76.3	79.5	75.1	73.6	73.5	73.4	73.3	75.2	75.3	75.3	74.6	77.6	70.0	126.9
	8000	74.0	76.4	77.2	78.0	77.4	78.5	77.7	78.2	78.0	75.1	77.0	79.5	77.2	76.6	75.3	70.9	129.6
	10000	71.0	72.1	73.0	72.7	73.7	72.7	72.1	71.9	71.7	70.9	71.8	72.9	71.9	71.1	72.4	67.6	125.1
	16000	69.3	69.5	69.6	69.3	70.5	70.6	69.8	69.7	68.4	69.3	68.2	70.5	70.7	67.5	68.6	64.5	123.6
	20000	66.0	67.0	66.4	67.1	69.1	67.9	67.1	67.3	67.9	69.9	66.7	69.2	68.9	65.4	67.3	62.7	124.0
OVERALL MEASURED		62.1	61.4	62.7	62.0	63.4	63.4	62.3	63.0	63.4	68.2	61.0	65.3	64.3	62.3	63.8	62.0	122.8
OVERALL CALCULATED		92.3	92.2	91.2	93.1	93.6	93.2	91.5	93.1	92.1	91.9	91.9	92.2	91.0	91.1	93.2	93.0	
PND8		87.8	89.4	90.0	90.8	90.8	90.0	88.0	89.3	87.9	87.8	87.6	88.8	88.2	88.9	89.1	87.3	139.7
		98.6	101.1	102.6	103.6	103.0	101.6	99.7	100.2	99.3	98.9	99.7	101.4	100.7	101.5	101.5	97.2	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	80.7	81.9	80.1	81.8	81.3	80.6	80.0	80.9	80.1	78.7	77.5	75.9	76.8	77.9	77.1	79.9	129.2	
63	79.0	80.2	80.2	77.9	82.2	80.9	73.4	73.3	77.0	80.8	75.6	75.2	75.0	76.0	78.0	77.6	127.8	
RADIAL 100. FT. ( 30. M)	80	72.5	73.8	71.7	70.5	71.5	70.6	69.0	68.8	71.5	72.3	71.2	68.7	68.6	73.6	71.6	74.5	120.8
VEHICLE ATT	100	71.0	70.2	71.1	68.9	68.2	67.8	66.0	67.0	66.8	67.7	68.7	69.0	69.0	69.0	69.1	71.9	118.5
CONFIG T/O	125	70.1	69.2	68.4	68.3	69.2	70.0	67.4	69.3	67.3	68.4	69.8	68.5	70.1	70.2	73.3	73.9	119.7
LOC PTD	160	77.0	73.2	67.4	72.9	74.8	80.8	73.9	82.0	72.9	74.9	74.5	73.1	73.7	71.3	75.1	75.8	126.2
DATE 7/26/74	200	79.3	75.9	69.3	75.8	77.3	82.9	77.4	84.1	74.9	77.1	77.9	75.0	71.8	70.0	77.1	77.8	128.5
RUN 427	250	68.1	69.3	68.4	67.8	67.2	68.9	68.4	68.3	66.1	66.8	67.7	66.4	69.8	70.4	69.2	69.9	118.5
TAPE A902	315	70.1	70.0	72.6	72.8	70.9	69.2	70.0	69.9	70.2	69.8	71.2	73.8	72.9	73.1	70.9	70.9	121.6
BAR 28.9 HG	400	70.0	74.1	76.2	74.8	72.6	72.6	71.1	68.9	70.8	71.8	70.8	72.0	74.9	74.2	73.9	71.6	122.9
(97669, N/M2)	500	72.7	76.2	76.1	74.7	73.9	73.8	72.1	74.9	73.7	72.5	71.7	71.9	75.6	79.0	76.0	73.5	124.8
TAMB 79, DEG F	630	71.1	73.2	75.5	75.0	74.3	73.2	71.5	72.4	72.0	72.2	72.9	71.3	73.8	75.5	75.1	73.1	123.6
(299, DEG K)	800	72.1	73.0	77.1	77.9	75.3	74.8	74.0	74.2	72.9	72.3	73.9	72.2	72.8	73.0	72.1	69.7	124.2
TWET 71, DEG F	1000	72.3	73.2	75.2	75.2	74.3	74.0	73.4	74.1	73.1	73.1	73.2	74.3	73.2	74.5	73.4	69.9	124.1
(295, DEG K)	1250	73.2	74.3	77.1	77.2	75.9	76.0	74.0	74.0	74.0	73.9	74.0	76.2	75.8	74.0	74.3	73.8	125.4
FACT 16.83 GM/M3	1600	73.0	74.4	76.3	77.3	76.1	75.1	74.5	75.0	74.2	73.1	74.0	75.4	76.1	74.4	74.0	68.9	125.4
(.01683 KG/M3)	2000	73.1	75.6	77.4	79.1	78.2	76.3	74.3	74.3	74.1	73.2	74.2	76.5	76.2	76.4	76.4	71.9	126.4
NFA10753, RPM	2500	74.1	76.2	79.1	80.1	80.0	76.6	74.3	74.2	74.6	73.6	75.7	77.0	77.2	77.4	75.1	71.7	127.4
(1126, RAD/SEC)	3150	74.4	74.4	77.3	78.4	78.5	76.3	75.4	74.4	74.1	73.9	74.2	78.6	74.2	76.4	76.5	70.9	126.8
NFK10556, RPM	4000	73.9	77.1	78.5	78.7	76.1	74.0	74.3	74.9	73.8	72.0	73.9	77.2	74.8	76.4	76.2	72.1	126.5
(1109, RAD/SEC)	5000	72.4	74.4	76.4	78.4	78.3	77.2	75.4	74.5	76.3	75.1	76.1	77.3	77.2	76.7	76.4	69.1	127.6
NFD10628, RPM	6300	74.2	74.6	78.6	76.4	79.8	75.0	73.6	73.4	73.4	73.3	75.3	75.2	75.1	74.4	77.5	71.0	127.5
(1113, RAD/SEC)	8000	73.2	76.4	77.4	77.0	77.4	78.1	77.7	78.2	76.1	73.8	75.9	79.4	76.1	77.2	76.1	70.0	129.2
NO. OF BLADES 44	12500	71.0	72.1	73.0	72.6	74.0	72.7	72.3	71.1	71.0	70.9	71.6	72.9	71.3	70.2	71.9	67.7	124.9
16000	69.4	68.6	69.8	69.3	70.4	70.5	69.7	68.8	69.2	69.3	68.2	70.7	71.3	67.7	67.9	64.5	123.7	
20000	66.0	66.1	66.4	67.1	69.1	67.8	67.2	67.3	67.9	71.0	66.7	69.0	69.0	66.1	67.4	63.5	124.2	
OVERALL MEASURED	92.2	92.3	90.2	92.1	93.0	93.1	91.4	93.2	90.9	91.9	91.9	91.3	91.3	91.3	91.3	93.0	94.0	123.8
OVERALL CALCULATED	88.4	89.3	90.2	90.6	90.8	90.6	88.1	90.1	87.9	88.2	88.0	88.8	88.4	88.8	89.2	87.3	139.9	
PND8	99.3	101.1	102.6	103.1	103.0	101.4	99.9	100.2	99.7	99.1	99.9	102.0	100.8	101.1	101.6	97.5		

427

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
50	79.2	80.8	78.2	79.6	79.8	79.6	77.9	78.9	78.6	77.7	76.0	75.0	75.8	76.9	76.0	79.5	127.8	
63	79.4	80.2	79.4	77.9	82.1	81.8	76.0	72.4	73.2	79.0	74.8	73.0	75.9	80.2	76.2	77.6	127.7	
RADIAL 100. FT. ( 30. M)	80	73.6	73.6	71.8	72.3	72.6	72.3	71.9	71.5	71.7	71.5	71.3	67.6	67.4	70.8	70.9	71.5	121.3
VEHICLE AYT	100	74.2	72.2	73.0	71.6	72.0	70.7	68.9	69.1	68.7	67.8	69.6	70.0	69.8	70.1	69.2	72.8	120.1
CONFIG T/O	125	73.6	72.5	70.6	70.9	71.4	71.0	69.2	70.2	71.0	69.0	69.3	69.4	70.1	69.5	71.3	73.0	120.4
LOC PTO	160	75.3	77.0	72.4	70.9	72.8	77.7	74.4	76.1	78.7	68.7	79.6	75.0	74.8	79.3	73.1	73.6	126.2
DATE 7/26/74	200	72.3	71.1	70.3	69.0	70.3	69.8	68.3	68.9	68.1	66.1	67.6	67.2	67.6	69.3	67.1	68.7	118.9
RUN 428	250	77.1	76.0	76.1	74.9	75.2	75.2	74.0	73.0	71.8	69.2	68.8	69.1	69.7	71.2	71.0	70.7	122.6
TAPE A902	315	84.2	82.2	81.1	77.9	86.0	86.8	85.3	86.3	85.0	81.9	78.8	80.0	82.8	82.2	82.2	76.8	133.7
BAR 28.9 HG	400	75.0	76.2	79.0	76.6	78.9	79.7	75.2	76.0	73.7	74.8	70.6	72.1	76.7	75.0	73.0	70.7	125.9
(97669. N/H2)	500	79.9	83.1	88.9	87.0	90.1	92.7	84.9	88.0	81.8	86.8	78.7	82.0	87.6	85.1	76.0	80.7	137.0
TAME 79. DEG F	630	84.2	87.6	86.5	91.0	94.4	98.2	95.3	99.3	98.2	95.1	92.2	93.6	94.9	84.5	82.5	83.1	145.4
(299. DEG K)	800	93.2	92.2	96.1	98.0	96.0	100.8	101.4	103.1	101.8	101.1	96.0	95.2	93.0	97.0	84.3	92.8	149.4
TWET 71. DEG F	1000	91.3	90.8	91.7	93.9	98.4	97.8	100.5	101.2	99.4	96.1	95.2	96.5	95.2	91.6	89.5	84.2	147.6
(295. DEG K)	1250	91.4	96.3	97.4	94.2	93.7	97.9	96.2	95.3	92.1	91.2	87.1	88.1	85.1	85.2	86.1	81.2	143.4
MACT 15.69 GM/M3	1600	95.4	100.4	103.3	98.2	96.6	97.5	95.3	93.4	90.1	90.2	87.9	84.1	88.0	84.5	85.4	79.9	144.8
(01669 KG/M3)	2000	99.5	98.4	98.6	97.3	95.4	94.3	90.5	92.3	90.2	88.4	87.0	85.3	86.0	82.3	82.6	79.0	142.4
MFA 9653. RPM	2500	98.1	101.0	98.2	96.0	94.1	95.7	93.1	93.4	92.0	89.9	87.1	85.3	86.0	83.0	83.3	79.0	143.1
(1011. RAD/SEC)	3150	97.5	95.5	97.3	93.3	95.5	96.3	92.3	92.7	91.2	88.1	85.2	84.6	84.3	81.4	80.4	76.1	142.4
MFK 9474. RPM	4000	96.9	98.3	97.2	95.1	91.0	92.0	92.3	92.1	89.1	85.1	82.9	83.0	80.9	78.1	77.0	75.9	141.3
(992. RAD/SEC)	5000	94.2	96.3	94.8	94.3	94.3	91.4	90.4	91.5	87.2	86.0	81.5	83.1	79.8	77.5	74.2	74.0	141.6
MFD 10428. RPM	6300	96.6	94.7	93.5	90.3	92.5	91.2	89.5	88.5	86.4	84.1	82.1	79.7	79.1	75.6	77.5	74.0	139.4
(1113. RAD/SEC)	8000	92.4	93.6	91.4	90.0	90.1	89.0	88.5	86.3	84.8	81.9	80.1	78.4	78.0	75.4	74.3	71.0	138.3
NO. OF BLADES 44	12500	91.2	91.0	89.2	86.8	88.0	87.8	85.1	82.8	81.9	79.9	78.1	74.8	73.5	71.1	71.2	68.9	136.6
16000	87.6	87.6	84.8	83.2	84.4	84.2	82.5	80.8	79.6	77.3	74.4	72.6	71.5	67.8	67.6	66.2	66.2	134.5
20000	84.0	85.0	82.2	80.1	81.1	79.8	79.3	78.0	75.9	74.0	70.1	70.1	68.0	65.5	66.0	62.5	62.5	133.2
OVERALL MEASURED	106.3	107.3	108.1	106.1	106.0	106.9	106.2	107.3	106.0	103.8	101.0	101.0	100.7	99.3	95.3	97.0	97.0	130.8
OVERALL CALCULATED	106.7	107.9	108.3	106.1	106.0	107.5	106.7	107.7	106.1	104.3	101.1	101.1	100.8	99.5	95.1	95.3	95.3	155.4
PNOB	119.6	121.1	120.4	118.1	118.3	119.2	116.5	116.8	115.2	113.5	110.4	109.7	109.7	108.7	106.1	104.8	104.8	

	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
	50	79.0	81.2	78.9	80.1	80.1	78.0	79.8	78.7	78.7	76.5	74.7	75.8	77.2	76.9	77.6	128.1	
	63	76.2	77.0	79.3	78.9	82.2	80.8	75.0	72.8	74.0	79.1	74.6	72.1	72.7	77.2	75.8	127.1	
RADIAL 100. FT.	80	73.5	74.0	72.0	71.5	71.7	72.7	70.9	69.8	72.4	72.4	71.2	68.7	69.6	71.8	72.8	121.4	
( 30. M)	100	73.1	73.0	72.4	70.9	70.8	70.9	69.0	68.1	67.8	68.9	70.7	70.3	70.0	70.1	71.1	120.0	
VEHICLE ATT	125	70.4	71.2	70.3	71.0	69.3	68.1	67.5	69.4	68.0	69.0	68.0	69.2	71.4	70.2	72.2	119.8	
CONFIG T/D	160	71.9	75.2	75.2	79.8	72.9	74.6	81.0	77.1	79.0	77.8	79.9	77.2	78.2	77.0	74.9	127.8	
LOC PTO	200	69.9	70.1	70.1	71.0	69.9	69.8	71.3	70.1	69.8	69.0	70.9	69.1	70.0	70.1	69.0	120.0	
DATE 7/26/74	250	75.2	75.1	75.3	74.0	73.8	73.8	72.3	71.2	69.8	68.8	68.9	69.0	70.8	71.3	71.0	121.6	
RUN 429	315	81.1	78.1	81.3	81.8	80.1	83.0	80.2	83.2	79.2	78.8	80.0	78.2	84.0	82.1	79.4	131.2	
TAPE A902	400	73.8	74.2	76.4	76.8	74.7	76.9	74.1	74.1	73.9	72.9	71.9	72.9	76.8	75.0	73.8	124.7	
BAR 28.9 HG	500	82.1	82.0	79.0	87.9	86.8	92.9	87.0	84.8	87.9	86.8	76.9	84.1	80.6	79.9	76.0	136.3	
(97869, N/M2)	630	86.3	86.5	88.7	88.3	85.2	94.1	94.4	92.4	89.2	91.0	86.0	91.4	85.1	82.7	82.4	140.3	
TAMB 79. DEG F	800	87.4	90.2	90.2	92.8	94.0	97.8	97.0	95.3	93.0	90.8	88.0	88.3	69.8	85.4	87.1	143.2	
(299, DEG K)	1000	84.5	84.5	87.7	89.0	89.2	93.0	91.2	90.3	89.1	86.3	85.2	85.2	81.0	80.3	78.4	138.4	
THET 71. DEG F	1250	89.1	90.2	91.2	92.1	89.2	90.7	88.2	85.4	85.1	82.9	81.0	82.0	82.1	79.5	79.3	136.9	
(295, DEG K)	1600	90.4	88.8	92.3	92.0	89.4	89.2	88.2	90.4	88.3	86.1	84.0	84.2	85.2	82.4	80.6	138.2	
MACT16.69 GM/M3	2000	89.5	91.5	91.4	90.2	88.5	88.3	87.5	86.5	84.1	82.4	81.3	80.2	81.3	79.5	79.4	136.3	
(.01669 KG/M3)	2500	91.1	92.4	91.1	90.0	89.9	88.9	85.2	85.0	85.1	83.3	79.8	79.3	79.8	78.4	80.0	136.3	
MFA10011, RPM	3150	90.4	89.3	89.4	86.1	86.3	88.1	84.2	85.7	85.1	82.3	79.0	79.3	79.3	76.4	77.2	135.2	
(1048, RAD/SEC)	4000	88.9	91.0	91.1	87.1	84.2	83.7	84.3	84.2	81.9	78.3	77.2	77.8	75.6	75.0	74.2	134.1	
MFK 9823, RPM	5000	88.5	89.6	87.4	86.3	87.4	87.1	83.4	82.4	83.3	80.1	79.2	77.4	78.3	76.7	75.1	134.3	
(1029, RAD/SEC)	6300	88.3	87.5	86.7	83.2	85.5	82.5	81.4	80.8	79.2	78.5	76.0	75.4	75.3	73.6	76.6	132.3	
MFD10628, RPM	8000	85.2	85.3	84.3	83.0	83.1	81.4	80.5	80.2	79.3	77.0	75.7	78.2	75.8	76.7	74.3	131.9	
(1113, RAD/SEC)	10000	83.0	83.7	81.4	78.8	80.0	78.7	77.3	75.2	74.8	72.9	72.6	71.8	71.7	68.9	70.2	129.0	
NO. OF BLADES 44	12500	79.6	80.0	76.9	75.3	75.4	75.3	74.6	72.8	72.5	70.8	69.4	69.6	69.5	66.6	66.5	127.0	
	16000	76.3	75.1	73.4	72.6	73.2	71.8	71.1	70.2	69.1	70.1	66.7	69.0	68.0	64.1	65.3	126.2	
	20000	70.4	69.4	68.0	67.6	67.3	67.2	65.4	64.5	64.5	68.5	62.1	63.3	62.3	61.7	61.4	124.1	
OVERALL MEASURED		100.1	100.3	100.3	99.8	100.0	102.1	101.2	100.0	99.0	97.8	94.7	95.9	95.2	93.3	94.3	94.0	
OVERALL CALCULATED		99.9	100.6	100.9	100.7	100.1	102.6	101.2	100.1	98.5	97.2	94.3	95.8	94.8	92.5	92.3	149.1	
PND8		113.1	113.8	113.7	112.5	112.1	112.9	110.8	110.1	109.2	107.1	104.6	105.4	105.1	103.1	103.4	99.1	

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## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 18 HR. 22.8

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM., DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
50	79.9	81.2	78.1	80.0	79.8	79.7	77.9	79.0	78.8	77.9	75.5	74.8	75.4	77.1	75.0	77.7	127.7	
63	76.2	77.3	79.5	78.2	82.0	81.0	74.9	73.3	74.7	79.8	74.2	72.2	72.0	77.4	76.9	75.8	127.2	
RADIAL 100. FT. (30. M)	80	72.9	73.8	72.7	71.6	72.8	71.6	70.6	70.6	71.6	72.4	70.4	67.8	68.6	71.8	70.7	72.6	121.1
VEHICLE ATT CONFIG T/O	100	72.9	73.1	73.2	70.7	70.6	69.7	68.1	67.2	68.0	67.7	69.8	70.1	69.8	69.2	69.0	71.8	119.6
LOC PTO	125	71.1	71.2	70.5	71.0	69.5	68.1	67.6	68.6	68.0	69.1	68.0	68.4	71.1	70.0	71.4	73.1	119.6
DATE 7/26/74	160	73.9	76.2	76.2	77.2	70.0	73.7	80.1	79.0	77.0	78.7	81.7	76.9	78.7	78.0	74.9	71.7	128.0
HUN 430	200	69.2	71.0	70.3	69.7	70.1	70.8	70.9	71.2	70.8	70.0	71.0	69.3	70.0	70.3	69.0	69.0	120.3
TAPE A902	250	74.2	75.0	74.2	74.0	73.1	74.0	72.2	71.3	70.0	68.7	68.9	69.3	70.8	71.2	71.2	70.9	121.6
BAR 28.9 HG (97669. N/M2)	315	79.0	80.4	84.4	84.0	81.2	83.0	80.4	83.0	81.0	78.8	82.0	76.1	83.1	82.2	80.0	78.0	131.6
TAMB 79. DEG F (299. DEG K)	400	74.1	75.9	78.1	77.0	76.1	78.1	75.2	74.1	72.9	72.7	72.7	71.9	75.8	74.2	73.9	71.6	125.0
THET 71. DEG F (295. DEG K)	500	80.8	83.2	81.3	86.9	86.0	93.7	88.8	84.8	85.7	86.5	81.6	81.8	81.6	82.9	80.1	83.8	136.7
WACT 16.69 GM/M3 (.01669 KG/M3)	630	88.5	86.7	89.4	91.0	89.3	96.1	93.6	92.6	92.2	91.3	85.2	92.4	90.0	85.2	85.5	81.9	141.6
INFA 10014. RPM (1048. RAD/SEC)	800	91.0	87.3	87.5	90.9	92.2	96.1	98.1	98.3	96.2	91.8	93.1	84.3	88.7	89.4	87.3	80.1	144.2
NFK 9828. RPM (1029. RAD/SEC)	1000	85.5	85.6	86.7	87.3	87.2	90.3	90.6	91.5	89.2	87.3	86.3	88.5	82.0	84.6	78.7	77.1	138.4
NFD 10828. RPM (1113. RAD/SEC)	1250	87.1	89.1	90.3	89.8	90.3	92.1	88.4	89.0	86.1	85.8	83.1	86.1	83.8	80.4	79.3	79.8	137.9
NO. OF BLADES 44	1600	88.5	90.5	92.3	93.1	88.4	90.3	90.2	90.2	88.2	88.2	83.2	83.2	83.3	80.3	83.4	75.8	138.7
	2000	90.2	93.4	92.7	90.0	89.4	88.1	88.6	88.3	85.1	84.1	83.0	82.4	82.0	79.7	80.6	77.1	137.3
	2500	93.1	92.1	91.4	90.7	90.2	89.1	88.1	87.0	85.2	82.9	82.0	79.5	81.8	79.4	80.0	74.5	137.1
	3150	91.2	90.7	91.4	87.3	88.5	89.1	86.4	86.2	85.2	82.1	80.2	79.3	80.3	77.4	78.3	73.9	136.1
	4000	90.2	92.2	91.4	88.2	84.2	84.7	85.3	85.0	82.9	79.1	77.0	79.1	76.8	76.4	74.9	73.6	134.8
	5000	88.5	89.3	87.7	87.1	87.5	88.4	84.7	84.5	84.3	81.2	80.3	78.8	79.1	77.4	75.4	70.9	135.2
	6300	89.6	88.3	87.6	84.4	86.6	83.2	82.6	80.9	80.8	79.2	77.4	76.4	76.3	74.6	77.3	71.1	133.2
	8000	86.2	86.2	84.6	84.0	84.1	83.0	81.5	80.7	80.1	78.0	76.1	78.6	75.9	76.7	75.3	69.7	132.7
	10000	83.8	84.2	82.2	79.8	81.1	79.8	78.1	76.9	76.0	73.8	72.6	72.9	71.9	70.0	71.0	67.6	130.0
	12500	80.8	79.7	78.2	76.7	76.6	77.7	75.6	74.4	73.3	71.3	70.3	69.5	69.5	66.9	66.7	64.2	128.1
	16000	77.1	77.2	74.1	72.8	74.0	72.8	72.1	71.3	69.8	70.0	67.1	68.4	67.8	64.3	66.0	62.7	126.9
	20000	71.3	70.6	68.6	67.3	67.3	67.4	65.6	65.7	65.4	69.4	62.1	64.3	64.4	62.4	61.3	59.3	124.7
OVERALL MEASURED	100.3	100.7	101.1	100.8	100.0	102.8	102.3	101.3	100.0	97.8	96.7	96.3	96.0	95.4	95.0	94.0		
OVERALL CALCULATED	100.8	101.1	101.2	100.7	100.0	102.7	101.9	101.8	100.1	98.0	96.6	96.4	95.5	94.4	93.3	93.4		149.9
PND8	114.1	114.5	114.2	113.0	112.4	113.1	111.7	111.5	109.8	107.9	106.5	106.1	105.8	104.2	104.0	100.3		



	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	80.2	80.9	79.4	80.7	81.0	80.1	79.5	80.1	79.7	77.7	76.5	76.0	76.6	76.9	75.7	78.8	128.5	
63	76.9	77.3	79.5	78.0	81.8	80.9	74.2	73.2	74.7	79.8	74.9	73.0	73.8	75.0	76.2	77.9	127.1	
RADIAL 100. FT. ( 30. M)	80	72.8	74.5	71.7	71.3	72.6	71.6	69.9	70.1	71.4	71.4	70.4	68.6	68.6	71.6	69.9	73.2	120.8
VEHICLE ATT	100	73.0	73.1	72.4	70.7	70.1	70.1	68.0	68.2	67.8	72.8	70.8	69.1	68.6	69.1	69.1	72.0	120.0
CONFIG T/O	125	71.2	70.2	70.4	70.1	69.6	69.0	68.4	70.3	67.0	71.2	68.8	69.3	71.0	69.3	71.3	72.8	119.9
LOC PTO	160	77.0	74.0	77.3	79.9	73.3	75.9	81.3	79.0	78.9	79.8	81.9	76.8	77.7	80.2	76.1	71.6	128.9
DATE 7/26/74	200	70.2	70.1	70.1	71.7	70.4	70.9	72.3	71.1	70.0	74.9	71.7	69.1	70.9	71.2	69.9	69.1	121.4
RUN 431	250	74.0	74.0	74.0	73.2	73.1	72.8	72.2	71.0	69.8	72.0	68.7	68.9	71.0	71.3	71.2	70.8	121.5
TAPE A902	315	83.2	83.4	85.3	86.0	87.2	88.8	86.5	84.4	82.0	79.9	80.1	81.3	84.8	80.2	81.1	77.8	134.3
BAR 28.9 HG	400	76.1	77.1	78.2	79.0	78.1	78.7	77.2	75.2	74.7	76.9	72.6	74.1	76.8	73.9	74.1	72.6	126.3
(97682. N/M2)	500	81.1	80.3	85.1	86.9	85.0	87.9	85.3	87.0	86.9	83.8	80.8	81.0	79.0	77.2	79.8	82.6	134.7
TAMB 81. DEG F	630	88.3	87.4	89.5	84.1	88.5	90.3	90.8	88.7	88.1	88.4	85.2	82.8	89.3	80.5	83.6	78.0	137.9
(300. DEG K)	800	87.1	85.2	84.4	85.9	87.0	92.1	90.6	89.5	87.9	86.9	85.7	85.1	87.8	81.1	83.3	74.6	137.9
THET 72. DEG F	1000	84.2	85.5	85.7	85.0	85.5	87.3	87.8	84.5	84.5	81.3	81.0	81.5	80.4	77.6	77.2	74.1	134.2
(295. DEG K)	1250	86.0	87.2	89.3	87.5	87.9	87.1	87.6	86.4	82.9	81.9	82.0	82.3	80.9	79.5	79.1	76.8	135.2
FACT 16.56 GM/M3	1600	88.5	87.3	88.6	88.0	86.1	88.2	86.4	85.5	83.4	83.1	81.1	80.5	80.3	78.3	79.5	74.8	135.0
(01656 KG/M3)	2000	88.3	90.6	89.5	87.3	80.4	87.3	84.8	84.9	82.1	80.2	80.0	79.3	80.1	78.4	78.6	74.1	134.5
NFA 10086. RPM	2500	88.3	89.0	88.2	88.0	87.1	96.3	84.5	83.0	82.2	80.9	79.1	78.1	79.9	78.1	78.3	73.5	134.2
(1056. RAD/SEC)	3150	88.4	86.6	87.4	84.3	86.2	85.4	82.8	82.6	81.3	82.2	78.1	78.4	77.2	76.5	76.3	72.2	133.1
AFK 9879. RPM	4000	87.3	89.1	88.4	85.1	82.0	81.3	82.4	82.0	78.9	77.2	74.7	77.3	75.7	74.3	73.9	72.7	132.0
(1034. RAD/SEC)	5000	85.4	86.4	84.5	84.0	84.5	84.3	81.6	80.3	81.5	82.3	77.5	77.3	77.5	76.4	75.2	69.2	132.4
NFD 10628. RPM	6300	86.5	84.5	83.7	81.2	83.5	80.2	79.9	78.6	77.2	78.5	75.1	75.3	76.0	73.3	76.5	71.2	130.5
(1113. RAD/SEC)	8000	82.2	83.4	82.3	80.1	81.1	80.4	79.5	79.1	77.2	79.1	75.1	78.3	76.2	75.3	75.0	69.8	130.8
NO. OF BLADES 44	12500	81.1	80.1	79.3	76.8	78.4	76.8	75.4	73.8	73.7	80.9	70.9	72.0	71.7	69.2	70.9	66.9	128.8
16000	78.1	76.8	75.9	73.5	73.4	74.6	73.0	71.5	71.7	79.6	68.5	69.7	70.6	69.9	66.6	64.6	127.7	
20000	73.3	72.4	71.5	69.9	71.3	69.8	70.3	69.1	69.2	79.3	65.9	68.1	68.0	64.5	67.2	62.8	127.9	
OVERALL MEASURED	68.6	67.4	66.8	64.6	65.7	66.4	64.1	63.4	64.6	76.8	61.6	63.5	64.6	61.6	62.9	59.5	127.1	
OVERALL CALCULATED	98.0	98.4	99.1	97.9	96.2	98.9	98.3	97.1	96.8	97.0	94.0	93.1	95.1	92.2	94.0	94.6		
PNOB	111.5	111.8	111.7	110.3	110.1	110.1	108.6	107.7	106.4	106.8	103.7	103.7	104.4	102.2	102.6	99.0	146.6	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	80.1	81.9	79.1	81.0	81.0	79.7	79.3	79.9	79.7	79.0	76.5	75.9	76.5	77.1	75.9	78.5	128.6
63	76.2	76.3	79.3	77.2	82.2	80.1	74.1	73.2	74.8	79.6	73.8	73.0	73.7	75.2	75.9	76.5	126.9
RADIAL 100. FT. (30. M)	80	72.7	73.8	71.7	71.4	72.7	71.6	69.9	69.9	71.9	72.4	71.3	68.7	69.4	71.7	70.5	121.0
VEHICLE ATT	100	73.0	71.9	71.2	70.7	69.3	69.8	68.0	67.9	67.0	68.7	70.6	69.2	69.0	68.2	69.2	119.1
CONFIO T/O	125	70.4	70.2	69.3	70.1	69.2	69.4	68.6	69.5	67.3	69.0	68.2	69.3	71.1	69.6	71.4	119.6
LOC PTO	160	73.1	75.1	77.1	78.8	74.9	79.0	79.1	79.3	79.8	80.1	82.7	76.0	78.1	80.2	75.1	129.0
DATE 7/26/74	200	78.1	70.2	71.1	71.0	70.9	71.8	71.3	72.0	71.0	71.0	72.7	69.2	71.0	72.2	69.3	68.8
RUN 432	250	73.2	72.9	73.3	72.7	72.3	72.9	72.1	71.0	69.1	68.8	68.7	68.3	70.0	71.2	70.0	120.9
TAPE A902	315	84.0	85.3	88.4	88.7	89.2	89.7	87.4	86.0	84.8	80.6	81.1	81.5	83.0	81.2	81.1	135.6
BAR 28.9 HG (97682. N/M2)	400	76.0	78.1	79.4	80.8	80.2	80.0	78.1	77.2	76.1	73.6	72.8	74.1	76.8	75.1	74.9	127.2
TANG 81. DEG F (300. DEG K)	500	83.0	81.9	84.2	84.8	84.8	85.9	83.9	86.1	82.7	78.9	82.8	77.0	80.0	78.1	79.9	133.1
THET 72. DEG F (295. DEG K)	630	86.3	85.5	88.6	84.2	88.2	83.3	85.5	85.2	81.3	79.4	78.1	81.4	85.2	78.6	78.3	133.8
MACT 16.56 GH/M3 (.01656 KG/M3)	800	82.5	82.1	83.2	83.2	83.9	88.0	88.3	85.1	84.1	83.8	80.1	82.2	81.8	80.7	79.1	134.4
NFA10087. RPM (1056. RAD/SEC)	1000	81.6	84.2	85.4	85.2	84.5	85.3	86.4	86.3	84.3	82.2	81.3	79.4	81.0	77.8	76.4	133.8
NFK 9880. RPM (1034. RAD/SEC)	1250	85.1	86.2	87.4	87.0	87.3	85.2	84.4	84.1	83.1	81.9	79.9	80.2	80.2	78.4	77.2	133.8
NFD10628. RPM (1113. RAD/SEC)	1600	87.4	86.3	88.4	87.1	85.2	86.2	84.4	83.2	82.1	80.3	78.9	79.5	80.3	77.8	76.1	133.5
NO. OF BLADES 44	2000	86.5	88.4	88.9	87.3	86.2	89.0	84.5	83.3	82.4	80.4	79.0	79.3	79.5	77.8	77.5	133.7
OVERALL MEASURED	2500	86.0	87.1	87.4	87.1	86.0	85.1	82.2	81.3	81.2	79.1	78.0	77.2	79.2	77.7	78.3	132.9
OVERALL CALCULATED	3150	87.2	84.3	85.5	83.1	84.5	83.2	81.5	80.4	79.2	78.1	75.8	78.5	77.1	75.5	76.2	131.3
	4000	85.1	87.2	86.5	83.5	79.9	80.2	80.5	80.1	78.3	74.8	73.7	76.3	75.0	74.3	73.9	130.4
	5000	83.5	84.6	83.4	83.3	83.3	82.5	79.9	79.7	80.3	77.2	77.1	76.5	77.1	75.5	74.2	131.0
	6300	84.4	83.6	82.8	79.2	81.6	79.4	77.8	77.3	75.4	75.3	74.0	74.3	74.2	73.8	76.4	129.1
	8000	81.5	82.3	80.4	79.0	80.5	79.0	77.4	78.5	76.2	75.1	73.1	76.4	75.1	75.5	74.3	129.4
	10000	79.3	79.1	77.2	75.0	77.0	76.7	74.1	73.0	72.1	71.9	70.6	71.3	70.9	69.3	70.9	126.5
	12500	75.9	74.7	73.8	71.6	72.7	72.6	71.9	70.8	69.9	68.6	67.6	69.6	69.4	66.0	66.8	124.6
	16000	72.1	71.4	70.4	68.9	70.1	69.1	69.5	68.5	67.3	69.0	65.9	68.4	68.1	64.5	66.4	124.4
	20000	66.6	65.7	65.0	63.5	64.5	65.5	63.6	63.8	62.3	67.3	61.4	63.5	64.2	61.7	62.8	122.8
		97.3	97.4	98.1	96.8	97.9	97.8	96.3	96.0	95.1	93.8	93.0	93.2	93.1	92.6	93.3	93.9
		96.9	97.2	98.1	97.2	97.3	97.0	96.1	95.4	94.0	92.4	91.6	91.3	92.4	90.6	90.1	88.4
		110.1	110.3	110.4	109.5	109.1	108.5	106.8	106.1	105.2	103.5	102.5	103.0	103.4	101.9	101.9	98.2

MODEL SOUND PRESSURE LEVELS (59, DEG, F; 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANs)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	50	80.9	82.2	80.4	82.0	80.8	80.7	79.9	80.9	80.0	78.6	77.6	75.9	76.5	77.9	77.0	78.8	129.1
	63	79.0	79.2	79.9	78.0	82.3	81.9	74.0	73.3	75.0	79.9	75.7	75.9	76.0	76.1	76.1	76.8	127.7
RADIAL 100. FT.	80	73.4	74.6	73.0	71.6	71.9	72.3	69.6	69.7	71.6	72.5	71.7	68.7	69.6	72.1	71.8	72.4	121.3
( 30. H)	100	71.3	71.1	71.1	70.0	68.3	69.8	66.9	67.2	67.8	68.7	69.8	69.2	69.0	69.0	70.2	71.8	119.1
VEHICLE ATT	125	69.4	69.5	69.4	68.0	68.6	70.0	67.4	69.5	67.2	69.2	68.9	68.6	71.2	69.4	73.1	72.9	119.7
CONFIG T/D	160	72.9	68.8	70.3	72.9	77.2	79.6	75.9	81.0	73.3	68.7	70.7	69.9	69.9	73.0	73.1	71.5	125.2
LDC PTO	200	76.0	71.2	73.2	75.8	80.3	82.2	78.5	83.2	76.8	71.0	72.9	71.1	69.9	74.3	74.2	70.8	127.6
DATE 7/26/74	250	68.8	69.3	69.1	68.0	68.2	69.9	68.2	68.0	66.1	67.9	67.7	68.2	70.9	71.0	70.0	69.9	119.0
RUN 433	315	70.1	70.2	72.4	72.8	71.9	71.8	69.2	69.4	69.1	69.0	70.6	71.3	73.7	74.3	72.0	70.8	121.5
TAPE A902	400	70.0	73.9	75.1	74.8	72.9	72.8	71.0	68.1	70.9	71.2	70.7	72.1	75.0	74.0	74.1	70.6	122.7
BAR 28.9 HG	500	72.7	76.1	75.1	74.6	73.9	75.8	72.1	74.7	72.8	73.5	71.6	72.2	74.8	79.3	76.0	73.7	124.9
(97682. N/M2)	630	71.1	73.1	75.4	75.2	73.3	73.9	71.5	72.4	72.2	72.2	73.1	71.3	73.9	75.2	75.3	73.1	123.7
TANS 81. DEG F	800	72.0	74.0	76.1	78.0	74.1	74.7	73.3	73.4	72.2	72.8	73.9	72.2	73.2	73.2	70.0	124.0	
(300. DEG K)	1000	72.2	73.2	74.9	75.2	74.2	74.1	73.3	73.6	73.1	72.9	73.0	74.3	73.2	74.5	74.3	70.1	124.0
THET 72. DEG F	1250	73.0	74.0	77.1	77.2	76.2	75.0	75.3	74.1	73.9	73.0	73.7	76.1	76.0	74.3	74.2	73.7	125.3
(295. DEG K)	1600	73.4	74.4	76.3	77.2	76.0	76.2	74.4	74.4	74.0	72.8	74.1	76.4	76.1	75.3	74.3	69.8	125.6
LACT 16.56 GM/M3	2000	72.5	76.4	77.3	79.1	77.5	76.0	74.5	74.4	73.9	73.9	75.2	76.5	77.2	76.7	76.3	71.0	126.5
(.01656 KG/M3)	2500	73.9	75.9	79.0	81.0	80.0	77.0	75.3	74.2	75.1	74.8	74.8	77.2	78.1	77.1	78.4	71.9	127.7
RFA10754, RPM	3150	74.2	74.5	77.6	77.4	78.5	76.5	75.4	75.1	74.3	73.9	73.2	77.2	75.3	76.4	76.2	70.9	126.6
(1126. RAD/SEC)	4000	73.0	77.2	79.5	78.9	75.8	74.6	75.3	75.2	73.9	72.0	73.6	76.9	76.0	76.2	76.0	71.8	126.7
RFK10533, RPM	5000	72.4	75.4	76.6	78.6	77.4	77.1	75.4	75.5	75.0	74.1	76.0	77.5	77.3	76.4	75.1	69.0	127.4
(1103. RAD/SEC)	6300	74.3	75.4	78.7	76.1	78.7	75.4	73.6	73.5	74.1	73.4	74.3	75.2	75.2	74.5	77.6	71.0	126.9
RFD10628, RPM	8000	74.0	75.4	76.3	77.5	77.3	81.1	78.5	77.1	76.9	74.0	75.2	80.2	76.2	77.5	75.1	70.0	129.6
(1113. RAD/SEC)	10000	71.2	72.2	73.3	72.8	73.7	73.0	72.0	71.2	71.2	70.9	71.6	73.2	71.9	71.2	72.2	67.6	125.0
NO. OF BLADES 44	12500	68.6	68.8	69.2	69.4	69.7	70.6	69.9	68.8	68.7	68.4	68.3	69.8	71.6	67.9	68.7	64.3	123.5
	16000	66.4	66.2	66.9	67.0	69.2	68.0	67.2	66.4	67.0	69.1	65.9	69.3	70.0	65.5	67.2	62.8	123.9
	20000	61.5	61.7	62.1	61.4	63.5	63.7	61.6	62.9	62.7	69.3	61.3	63.8	64.7	62.6	62.6	60.1	122.6
OVERALL MEASURED		92.1	92.4	91.1	91.9	92.2	93.1	92.3	92.3	92.1	92.9	91.9	91.2	91.9	91.4	93.1	92.8	
OVERALL CALCULATED		87.9	89.1	90.2	90.7	90.7	90.9	88.5	89.7	87.9	87.6	87.4	88.8	88.7	89.1	88.8	86.2	
PND8		99.1	101.1	102.9	103.4	102.8	101.8	100.2	100.3	99.4	98.8	99.6	101.4	101.3	101.3	101.5	97.0	139.9

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	80.2	82.2	79.1	81.8	81.1	80.0	78.9	79.8	80.1	78.8	76.8	75.9	76.6	78.2	76.8	78.8	128.8
	63	80.0	80.1	80.2	78.1	82.0	81.8	74.0	73.1	75.0	80.0	74.6	75.9	75.9	76.2	77.1	76.9	127.7
RADIAL 100. FT.	80	73.7	74.8	72.8	72.4	71.8	72.3	69.8	69.5	72.4	72.6	71.5	68.5	68.3	71.8	71.7	73.4	121.4
(30. M)	100	71.2	71.0	71.2	69.7	69.1	69.0	67.2	67.8	67.8	67.8	69.9	69.9	69.1	69.2	70.7	71.7	119.2
VEHICLE ATT	125	70.3	68.5	69.3	69.0	68.4	69.0	68.3	69.3	67.0	69.0	70.0	69.2	70.3	69.3	73.3	73.7	119.8
CONFIG T/O	160	69.1	70.0	72.2	75.6	77.9	78.7	76.0	80.9	74.9	69.8	69.9	69.0	70.0	74.1	73.0	71.9	125.4
LOC PTO	200	71.1	70.2	73.4	76.9	79.0	79.9	77.4	82.0	76.1	70.9	70.9	69.1	70.0	73.2	74.0	69.1	126.4
DATE 7/26/74	250	69.0	68.4	68.4	68.8	67.2	69.1	68.0	67.3	67.1	67.2	67.8	68.0	70.0	71.2	70.2	69.8	118.7
RUN 434	315	70.1	70.1	71.2	71.9	72.8	70.8	69.1	69.0	69.8	68.9	69.7	70.2	73.6	73.2	72.3	70.8	121.2
TAPE A902	400	70.0	73.9	75.1	74.9	73.0	72.9	71.2	68.0	70.7	69.7	69.8	71.9	74.9	74.2	73.1	70.7	122.5
BAR 28.9 HG	500	71.8	75.9	76.2	75.8	74.9	73.8	72.1	74.6	73.8	73.5	71.5	72.9	75.8	79.2	74.8	73.4	125.0
(97682, N/M2)	630	70.4	72.1	75.5	75.2	74.3	74.2	72.5	72.3	72.0	72.2	72.8	71.1	73.1	75.3	75.1	72.1	123.6
TAMB 81. DEG F	800	72.0	73.1	77.4	78.7	75.2	76.0	74.2	74.3	73.0	73.0	72.8	72.0	73.6	74.3	73.1	70.0	124.6
(300. DEG K)	1000	72.2	73.4	75.9	75.3	73.4	73.9	73.3	74.0	73.1	73.2	73.8	74.5	73.0	75.2	73.4	69.9	124.2
TWEY 70. DEG F	1250	73.0	74.3	77.4	76.9	76.2	75.0	74.1	74.2	73.9	73.8	73.9	76.3	75.8	74.3	74.2	70.8	125.3
(294. DEG K)	1600	72.3	74.2	75.5	77.0	76.0	76.0	74.2	74.2	73.2	73.0	73.8	76.4	74.9	75.3	74.3	69.1	125.3
MACT 15.22 GM/M3	2000	72.4	75.7	76.7	79.2	77.6	76.0	74.7	75.1	74.3	73.2	75.2	76.5	77.1	76.5	76.4	71.0	126.5
(.01522 KG/M3)	2500	74.2	76.3	79.2	80.9	79.3	76.7	74.1	73.9	75.0	74.9	75.8	77.0	76.9	77.6	78.2	70.9	127.5
FA 10701. RPM	3150	74.2	73.3	77.0	78.2	77.5	76.2	75.3	75.1	74.1	73.9	73.0	77.5	74.2	76.4	76.2	70.9	126.5
(1120. RAD/SEC)	4000	73.2	77.4	79.5	78.1	75.9	74.0	74.3	74.2	73.1	71.1	73.6	76.9	75.0	76.2	75.9	71.9	126.3
FK 10481. RPM	5000	72.2	74.5	76.4	77.4	77.4	77.1	74.6	75.1	75.2	75.2	76.0	77.2	77.3	76.5	76.5	69.2	127.4
(1097. RAD/SEC)	6300	74.2	74.4	77.4	76.1	78.7	75.0	73.4	73.3	73.5	73.2	74.3	75.3	75.1	74.7	78.7	70.1	126.8
FD 10628. RPM	8000	74.4	76.5	76.6	77.1	77.4	78.1	78.3	79.2	76.3	75.9	77.4	79.4	78.3	77.4	76.4	69.9	129.8
(1113. RAD/SEC)	10000	71.4	72.3	73.2	72.1	73.9	73.0	71.4	71.2	70.9	71.3	71.8	73.1	72.0	71.1	72.2	67.0	125.0
NO. OF BLADES 44	12500	68.9	68.8	69.2	68.7	69.7	70.8	68.8	68.8	69.0	68.8	68.7	69.8	69.7	68.0	67.9	64.4	123.2
	16000	66.8	66.6	67.6	67.2	69.5	67.4	67.5	67.4	67.5	69.3	66.4	68.8	68.1	66.5	67.5	63.1	123.9
	20000	62.2	61.0	62.3	61.8	62.8	63.7	62.3	62.0	62.7	68.8	61.7	65.0	64.8	62.4	63.7	60.8	122.8
OVERALL MEASURED		92.3	92.2	90.4	92.9	93.2	92.0	91.5	93.1	91.5	92.0	91.8	92.3	91.9	92.1	93.1	93.9	
OVERALL CALCULATED		87.7	89.1	90.1	90.7	90.7	90.1	88.1	89.4	87.9	87.7	87.4	88.6	88.5	89.2	88.9	86.1	139.7
PNDB		98.9	101.0	103.0	103.4	102.6	101.3	100.0	100.	99.3	99.0	99.6	101.4	100.9	101.4	101.5	98.9	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	79.9	81.9	79.4	80.7	80.8	80.0	79.2	79.9	79.0	78.9	76.4	74.8	75.6	77.0	75.8	78.6	128.4
63	77.2	77.0	79.4	76.8	82.0	80.9	74.0	72.2	75.0	80.1	73.7	72.4	73.9	75.9	76.2	76.8	127.0
RADIAL 100. FT. (30. M)	80	73.5	74.8	73.0	71.6	72.6	72.4	69.8	68.8	71.5	71.3	70.5	67.7	68.4	71.8	70.5	120.9
VEHICLE ATT CONFIG T/O	100	73.9	73.2	72.2	70.6	69.8	70.0	68.0	67.9	67.0	68.8	70.8	69.9	69.6	70.1	69.9	119.6
LOC PTD	125	71.4	71.1	70.5	71.0	68.5	69.0	68.3	70.5	68.1	69.0	68.9	69.3	70.8	69.5	72.3	119.8
DATE 7/26/74	160	75.8	71.0	76.3	77.8	72.7	71.8	82.1	74.0	80.1	79.9	80.7	75.9	76.8	78.3	76.1	128.2
RUN 435	200	70.0	70.2	71.1	71.0	70.1	70.9	73.2	70.2	71.8	70.9	71.8	69.9	70.9	71.2	70.1	121.1
TAPE A902	250	75.1	75.3	74.0	73.7	73.0	74.0	72.2	71.2	70.0	69.0	69.1	69.3	71.0	71.3	71.0	121.5
BAR 28.9 HG	315	80.3	79.1	82.3	83.8	81.1	85.8	85.0	82.2	79.9	80.1	79.9	79.1	85.7	81.1	79.1	132.5
(97682. N/M2)	400	73.8	74.9	77.0	77.9	75.1	78.0	77.3	74.8	73.9	72.7	72.7	72.9	77.7	74.2	73.9	125.5
TAMB 81. DEG F	500	78.9	78.2	83.0	87.9	85.8	88.7	87.2	87.0	87.8	83.8	77.3	82.2	80.7	77.2	76.8	135.1
(300. DEG K)	630	84.5	83.3	87.4	84.2	88.3	88.9	85.5	84.3	85.3	87.1	84.2	81.6	89.2	81.2	83.5	136.1
TWET 70. DEG F	800	84.3	85.3	88.3	88.9	92.2	95.8	91.4	92.0	91.2	89.9	88.2	88.3	90.1	83.4	87.3	140.9
(294. DEG K)	1000	83.5	84.2	85.6	85.1	87.5	89.1	88.6	86.3	87.0	84.0	82.0	82.5	82.2	80.6	79.7	135.7
IMACT 13.22 GM/M3	1250	86.3	88.2	88.4	87.8	87.3	86.9	86.2	84.1	82.9	82.1	81.1	82.4	79.9	80.3	78.2	134.6
(.01522 KG/M3)	1600	90.2	89.4	90.5	89.1	87.4	86.3	85.3	85.4	84.3	83.1	81.2	81.3	81.1	79.4	80.2	135.3
AFA 10100. RPM	2000	89.2	90.6	90.3	88.1	87.3	86.1	85.6	85.4	83.1	82.0	80.1	80.3	80.4	79.7	79.3	135.0
(1057. RAD/SEC)	2500	89.0	90.3	89.4	88.0	88.9	86.9	83.9	83.1	83.1	81.0	79.0	78.4	79.8	78.1	79.1	134.7
AFK 9892. RPM	3150	88.3	87.7	87.9	84.1	86.5	86.3	83.6	82.3	81.9	80.1	77.3	78.6	77.2	76.7	77.2	133.3
(1036. RAD/SEC)	4000	88.3	89.1	89.2	85.9	83.0	81.9	82.1	82.1	79.9	77.0	74.9	77.2	75.0	75.0	74.2	132.4
RFD 10628. RPM	5000	86.3	86.4	85.7	85.1	85.5	85.6	82.3	81.8	82.3	78.3	78.4	77.5	77.4	75.6	75.2	133.0
(1113. RAD/SEC)	6300	86.4	85.7	84.9	82.2	84.2	81.2	79.8	78.6	77.2	76.0	75.3	75.5	75.1	73.3	76.7	130.9
NO. OF BLADES 44	8000	83.4	84.5	82.5	81.3	81.5	80.1	79.3	78.6	78.5	75.2	75.0	78.6	76.0	75.3	74.1	130.7
16000	81.4	81.2	79.3	77.9	79.1	77.9	75.3	74.1	74.1	72.0	72.0	72.0	72.0	70.1	71.0	66.7	128.0
OVERALL MEASURED	12500	78.1	77.9	75.0	73.7	74.9	74.7	72.8	71.8	70.7	69.5	68.7	69.8	66.9	66.9	63.9	125.9
OVERALL CALCULATED	16000	73.5	73.5	71.6	71.3	72.5	71.3	70.6	69.5	68.3	69.4	66.2	68.7	68.4	65.6	67.5	125.6
PWDR	20000	68.1	68.8	66.4	65.7	65.8	65.7	64.3	65.0	64.7	69.7	62.0	64.2	63.7	61.4	63.3	124.0
	98.2	99.0	99.1	98.8	98.9	100.0	98.0	97.3	97.0	97.8	95.8	94.9	94.3	95.7	93.0	94.3	94.3
	98.5	98.9	99.3	98.2	98.9	100.0	97.7	97.0	96.6	95.3	93.4	93.4	95.3	91.6	92.4	88.4	147.0
	111.5	112.0	112.2	110.6	111.1	110.5	108.5	107.5	107.1	105.4	103.6	104.0	104.7	102.6	103.1	98.8	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	79.7	79.9	77.6	80.8	79.1	78.6	77.9	77.6	78.1	75.1	73.4	74.9	75.9	74.8	77.7	127.2
	63	78.0	78.1	79.0	77.1	81.3	80.2	73.2	72.2	75.2	80.2	74.1	71.7	73.9	74.8	73.9	126.6
RADIAL 100. FT. ( 30. M)	80	73.3	73.2	72.2	73.2	72.7	71.7	71.4	69.4	72.3	71.8	70.8	67.2	68.5	70.5	70.6	121.0
VEHICLE ATT	100	73.8	72.9	72.7	72.9	71.9	69.8	69.2	67.7	68.2	68.9	69.0	70.6	70.0	69.8	70.1	120.0
CONFIG T/O	125	72.3	72.2	70.0	72.0	71.5	70.5	68.5	68.3	70.6	70.3	69.4	69.2	70.2	69.1	71.4	120.2
LOC PTO	160	74.9	76.9	72.8	71.7	73.0	76.8	73.3	74.9	77.1	70.1	79.0	75.8	75.7	79.7	74.0	125.9
DATE 7/26/74	200	71.9	71.8	70.8	70.8	69.9	69.8	68.7	67.6	67.8	66.9	66.8	66.4	68.0	68.9	67.8	118.4
RUN 436	250	77.7	76.2	76.9	76.8	76.4	75.0	74.1	71.9	72.0	70.1	68.4	68.9	71.2	71.1	71.2	123.0
TAPE S3145	315	83.8	81.2	80.0	80.0	86.5	84.9	83.9	83.8	84.2	82.1	78.3	78.9	82.0	82.0	81.1	132.8
BAR 28.9 HG (97669. N/M2)	400	74.7	75.9	76.6	78.6	80.0	80.1	77.0	76.0	74.9	76.2	70.3	72.5	76.9	73.8	72.8	126.4
LAMB 81. DEG F (300. DEG K)	500	79.8	83.1	86.6	89.1	91.1	92.7	87.1	88.7	84.9	88.1	79.9	80.6	89.0	84.7	74.9	137.7
TWET 70. DEG F (294. DEG K)	630	83.1	88.6	90.4	92.0	91.3	96.2	94.6	98.1	97.5	95.3	91.7	93.2	95.4	83.5	80.5	144.6
WACT 15.22 GN/M3 (.01522 KG/M3)	800	92.9	92.1	95.1	99.8	98.2	102.3	101.4	101.9	102.2	102.5	94.4	94.0	93.0	98.0	90.4	149.8
NFA 9678. RPM (1013. RAD/SEC)	1000	94.2	90.5	91.3	94.4	93.4	96.3	99.3	100.1	99.4	97.6	96.7	96.0	95.4	92.3	88.7	147.1
AFK 9479. RPM ( 992. RAD/SEC)	1250	89.9	94.4	95.9	94.8	93.4	97.1	96.4	94.1	92.3	91.2	88.2	85.7	87.1	86.3	86.0	143.1
AFD10628. RPM (1113. RAD/SEC)	1600	97.3	100.5	101.2	98.3	95.3	95.2	94.4	94.1	92.5	90.7	88.4	86.1	88.2	85.2	84.3	144.0
NO. OF BLADES 44	2000	101.1	98.5	97.1	97.1	96.6	94.5	91.6	91.4	91.3	89.5	87.6	84.9	86.3	83.4	83.4	142.6
	2500	97.8	98.4	97.3	98.8	95.1	94.3	92.3	91.1	92.2	89.2	86.3	84.9	85.2	82.2	82.1	142.7
	3150	97.4	95.4	96.3	94.2	94.5	93.6	92.7	90.4	90.3	87.8	84.4	83.2	84.4	80.3	80.4	141.4
	4000	98.0	97.4	96.9	95.8	91.4	90.5	92.5	90.9	89.1	86.1	82.4	82.8	81.1	78.1	76.4	141.1
	5000	96.2	95.5	94.4	94.3	94.4	94.4	90.6	89.3	90.8	88.0	84.6	89.3	83.3	79.4	77.4	141.3
	6300	96.4	94.9	93.5	91.4	92.7	90.0	89.8	86.3	85.6	84.5	80.6	79.3	79.5	75.4	77.8	139.2
	8000	92.9	93.6	91.3	90.5	90.4	88.3	87.8	85.3	84.4	82.3	79.5	78.2	77.3	75.2	74.1	138.1
	10000	92.0	91.4	89.1	86.9	88.2	86.0	84.5	82.1	81.0	80.4	77.3	73.7	73.9	70.3	71.3	136.2
	12500	87.9	86.9	84.4	83.4	83.0	82.7	82.2	79.6	79.0	76.9	74.1	71.4	71.0	67.9	67.0	133.8
	16000	84.5	83.4	80.3	80.4	80.5	78.3	78.7	75.2	74.7	74.5	70.8	69.1	68.4	65.6	66.7	132.3
	20000	79.9	79.0	76.7	76.0	75.1	73.9	73.1	71.1	72.0	73.3	70.2	64.6	65.0	64.9	64.0	130.9
OVERALL MEASURED		107.1	107.1	106.8	106.9	105.4	107.0	106.4	106.0	106.3	104.4	101.3	99.9	101.2	99.2	96.1	95.9
OVERALL CALCULATED		107.4	107.2	107.0	107.0	105.6	107.0	106.4	106.6	106.3	105.4	101.0	100.4	101.1	100.2	95.6	95.2
PWDB		120.1	119.8	119.4	119.6	117.9	117.6	116.5	115.5	115.4	114.4	110.2	109.2	109.7	109.0	105.7	104.8

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	79.5	79.8	76.9	79.0	77.9	77.7	77.7	77.9	76.9	74.1	73.5	75.0	75.9	74.0	78.0	126.7
	63	77.1	76.3	78.8	75.8	82.3	81.0	73.3	74.0	75.0	80.1	74.1	74.7	76.2	75.8	75.1	79.5
RADIAL 100. FT.	80	73.2	73.5	72.2	72.5	72.5	71.4	71.8	70.2	71.5	71.5	70.7	67.3	67.4	69.5	76.5	120.8
( 30. M)	100	72.7	72.2	72.0	72.7	72.2	70.1	69.2	68.7	68.2	67.9	68.0	69.7	70.0	69.6	70.2	119.9
VEHICLE ATT	125	73.0	72.3	70.0	72.3	72.2	70.2	68.7	66.4	69.1	69.4	67.5	70.1	70.2	68.3	71.4	120.0
CONFIG T/O	160	78.9	74.2	68.7	72.0	75.9	77.8	73.1	70.6	76.9	68.8	77.0	74.7	72.1	77.2	72.9	124.8
LCC PTO	200	71.9	70.8	70.6	69.8	69.8	68.7	68.2	66.7	67.0	65.9	66.1	65.5	67.8	67.7	67.0	117.7
DATE 7/26/74	250	77.8	76.1	76.0	76.1	75.4	73.9	74.1	72.2	71.4	69.2	68.1	68.8	70.0	71.2	71.3	122.4
RUN 437	315	84.0	81.2	78.9	80.6	85.1	86.2	85.4	85.0	82.8	82.1	78.2	82.9	83.2	84.0	83.3	133.5
TAPE S3145	400	76.0	76.1	78.9	79.6	76.1	77.0	76.4	74.0	73.1	72.7	69.9	72.8	75.9	76.2	73.0	125.3
BAR 28.9 HG	500	81.8	82.9	87.9	89.2	82.1	87.1	85.9	83.9	83.0	80.7	78.2	82.7	84.8	86.1	79.1	134.5
(97669, N/M2)	630	86.3	86.2	80.3	86.9	92.3	94.2	96.3	95.1	95.4	92.2	91.3	91.2	92.2	84.2	88.6	143.0
TAMB 81, DEG F	800	97.0	86.3	85.7	103.1	100.1	101.9	103.5	100.0	100.3	97.0	91.1	96.1	98.9	90.9	93.4	149.4
(300, DEG K)	1000	91.7	91.5	89.5	91.4	96.7	99.4	101.5	101.5	100.3	97.6	97.5	93.3	96.3	95.6	96.4	148.5
THET 70, DEG F	1250	92.0	94.2	94.1	97.1	95.4	94.1	92.3	91.0	86.9	87.0	86.2	83.0	88.1	82.9	86.3	141.3
(294, DEG K)	1600	101.1	99.3	98.2	100.9	99.2	96.4	94.4	94.4	90.5	88.4	91.2	87.1	86.2	61.3	83.2	144.6
WACT 13.22 GM/M3	2000	101.4	100.4	96.4	99.0	96.4	96.5	94.7	92.5	92.4	89.5	87.7	85.3	88.5	82.3	84.7	143.8
(.01522 KG/M3)	2500	99.8	101.1	101.0	99.1	98.3	94.2	92.3	92.2	93.2	89.2	86.6	85.0	86.2	84.1	83.3	144.2
NFA 9488, RPM	3150	98.4	96.5	95.1	95.0	95.6	97.3	94.4	92.3	92.6	89.6	84.6	84.1	85.6	81.2	81.8	143.0
( 993, RAD/SEC)	4000	98.2	100.4	98.2	96.0	92.1	90.9	93.3	91.0	89.3	86.3	81.9	83.8	82.3	78.1	77.3	141.9
NFK 9293, RPM	5000	96.5	98.5	94.2	95.4	95.4	95.2	93.6	90.5	91.7	87.8	84.6	81.3	83.7	80.5	79.4	142.5
( 973, RAD/SEC)	6300	96.7	95.9	94.4	92.7	93.9	90.5	90.8	87.7	87.5	85.8	81.6	79.4	79.6	75.7	77.5	140.2
NFD 10628, RPM	8000	93.0	94.5	92.5	91.3	91.3	89.2	88.6	86.0	85.3	82.2	79.5	79.0	77.3	74.3	74.2	138.9
(1213, RAD/SEC)	10000	92.2	91.4	89.2	88.2	89.4	87.2	86.4	83.0	82.3	81.3	78.4	74.9	74.2	71.0	72.3	137.2
NO. OF BLADES 44	12500	88.7	88.2	85.6	84.8	84.0	83.8	83.0	80.9	80.0	78.1	74.2	71.7	71.6	67.9	67.1	134.8
	16000	84.4	84.7	82.2	81.6	81.7	79.2	79.5	76.3	75.5	74.4	69.9	68.4	67.4	65.4	66.4	133.2
	20000	79.7	80.2	78.7	77.0	77.2	75.0	74.1	72.3	73.3	73.9	67.0	64.0	63.9	65.0	64.2	131.9
OVERALL MEASURED		107.9	108.1	106.8	108.1	107.2	106.9	107.2	106.0	105.3	102.2	101.1	99.9	102.2	98.1	99.1	98.0
OVERALL CALCULATED		108.6	108.4	106.7	108.6	107.3	107.4	107.8	106.1	105.6	102.7	100.9	100.1	102.5	99.5	99.6	95.1
PNDR		121.1	121.6	120.4	120.3	119.6	119.2	117.8	115.9	115.7	112.9	110.4	109.3	111.3	107.9	108.4	104.0

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	79.6	79.9	77.7	80.0	79.0	77.8	77.0	77.9	78.0	76.9	74.9	74.7	76.0	78.0	76.8	80.3	127.4	
63	75.8	75.3	79.0	75.8	81.2	81.1	73.3	72.9	73.3	79.1	73.4	73.0	73.9	74.9	74.9	78.1	126.6	
RADIAL 100. FT. ( 30. M)	80	72.9	72.7	70.5	71.5	70.7	71.4	71.5	69.4	71.3	71.5	70.5	67.4	67.3	69.3	69.7	71.6	120.3
VEHICLE ATT CONFIG T/O	100	72.0	70.1	71.0	72.0	72.2	69.8	68.9	68.6	68.9	67.9	67.2	68.8	69.0	69.8	70.0	71.1	119.5
LOC PTD	125	74.0	72.3	70.0	72.0	71.2	71.2	69.5	69.0	69.6	68.2	68.3	69.2	70.4	69.1	70.6	71.4	119.9
DATE 7/26/74	160	79.7	72.0	68.0	70.7	72.3	77.0	72.0	74.8	71.9	69.2	70.0	72.7	70.1	74.7	74.0	70.1	123.3
MUN 438	200	71.6	71.1	69.6	70.8	69.8	70.9	67.0	66.6	68.7	64.8	64.0	64.7	67.0	66.0	66.8	66.8	117.7
TAPE S3145	250	79.8	77.3	77.2	76.9	76.1	74.3	73.2	70.2	70.3	69.0	68.5	68.1	69.1	70.0	69.2	69.1	122.3
BAR 28.9 HD (97692. N/M2)	315	80.9	80.2	81.0	82.0	79.1	78.2	75.2	73.1	75.0	74.0	76.9	77.8	73.2	73.1	71.2	71.0	126.8
TAMB 83. DEG F (301. DEG K)	400	76.0	77.0	76.8	76.9	77.1	75.1	72.8	71.0	72.2	72.2	73.0	70.8	73.1	71.7	70.9	69.8	123.6
TWET 72. DEG F (295. DEG K)	500	75.8	78.2	76.8	76.7	79.9	80.0	75.1	73.8	76.8	77.0	75.1	74.4	76.0	73.8	74.9	73.0	126.6
FACT 15.98 GM/M3 (0.01598 KG/M3)	630	84.0	82.2	82.2	84.3	86.5	88.3	87.4	86.1	90.7	86.3	85.6	86.9	85.3	81.3	89.4	86.6	137.3
NFA 9449. RPM ( 961. RAD/SEC)	800	95.1	94.5	89.3	92.9	99.3	93.3	97.2	97.0	99.1	94.4	93.3	96.9	100.3	90.9	91.2	93.4	146.8
NFK 9904. RPM ( 948. RAD/SEC)	1000	96.2	88.5	94.4	97.2	102.7	102.3	102.4	98.1	99.7	98.5	92.7	98.3	96.6	92.2	90.3	87.6	149.1
NFD 10628. RPM (1113. RAD/SEC)	1250	93.0	95.1	102.2	102.3	100.4	98.2	96.4	90.1	92.3	92.1	91.4	90.8	90.9	87.3	84.3	87.4	146.0
NO. OF BLADES 44	1600	100.3	99.5	99.5	98.1	99.5	95.5	96.5	97.3	97.7	95.5	91.5	91.8	93.2	88.1	88.3	84.5	146.2
OVERALL MEASURED	2000	103.1	97.4	100.4	99.5	98.5	98.3	98.7	101.1	100.5	98.5	94.7	92.0	91.3	87.5	87.3	85.6	148.2
OVERALL CALCULATED	2500	97.1	98.3	100.0	99.0	97.2	97.3	95.1	93.9	94.4	91.3	88.2	85.9	87.1	83.2	84.3	80.1	144.7
PND8	3150	99.4	95.6	97.4	97.5	98.4	100.6	98.4	95.5	94.6	97.5	87.5	87.1	86.6	84.4	85.3	82.5	145.9
	4000	98.2	99.1	98.5	98.3	95.4	95.3	96.4	94.1	93.2	90.2	86.3	86.0	83.4	81.0	78.2	79.2	144.2
	5000	96.3	97.7	95.5	97.5	97.7	97.6	96.4	93.4	94.5	90.8	87.6	84.3	85.3	81.6	79.7	77.3	144.7
	6300	97.5	96.6	95.6	94.5	95.7	93.9	93.9	90.5	90.7	89.7	84.6	82.5	81.8	77.6	79.6	77.6	142.6
	8000	94.1	94.3	92.1	93.7	94.2	93.6	92.5	89.3	89.6	86.5	82.3	81.0	79.5	76.5	75.1	73.2	141.7
	10000	93.1	92.2	91.0	90.0	92.4	91.5	90.4	87.0	86.3	85.3	80.2	76.7	77.4	73.0	73.2	72.1	140.3
	12500	89.9	89.1	86.5	86.8	88.2	87.8	87.0	83.7	83.8	81.7	77.0	73.4	73.6	59.7	68.9	69.9	137.9
	16000	86.1	85.4	82.4	83.1	85.3	83.5	83.3	80.4	79.6	78.3	73.7	70.2	69.3	66.4	66.6	65.5	136.3
	20000	80.6	79.9	77.9	78.8	80.1	78.8	78.1	75.7	75.6	75.0	70.9	64.6	64.7	64.9	64.1	65.7	134.2
	107.8	107.4	108.1	107.9	109.0	108.0	108.1	109.8	106.4	104.1	101.1	101.9	103.0	97.9	97.4	98.1		
	108.9	107.5	108.7	108.6	109.3	108.5	108.1	106.5	107.1	104.8	101.2	102.7	103.5	97.7	97.7	97.2		
	121.6	120.5	120.8	120.6	120.9	121.4	120.1	119.9	119.0	116.8	113.3	112.0	112.3	108.1	108.4	106.6		



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (C.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	75.0	75.7	72.8	75.8	75.8	74.6	73.8	74.8	73.5	73.5	72.2	72.0	72.6	72.6	72.7	75.5	123.6
63	74.3	72.2	77.9	72.3	81.7	80.0	71.1	70.2	72.1	78.9	71.2	70.2	70.8	71.0	70.6	73.9	129.3
RADIAL 100. FT. ( 30. M)	80	70.0	69.8	68.3	69.8	69.3	69.7	69.6	68.3	69.4	69.9	68.6	67.6	67.6	68.3	71.2	119.1
VEHICLE ATT	100	70.9	71.2	68.7	69.9	70.0	70.7	70.2	69.8	68.9	69.1	69.0	71.0	69.9	70.6	72.6	119.9
CONFIG T/O	160	66.9	64.1	67.0	65.8	65.7	64.8	66.1	67.1	63.9	61.9	63.2	64.1	65.9	63.8	63.6	115.3
LOC PTO	200	72.1	72.9	71.7	69.2	69.2	68.9	68.0	68.2	65.8	63.7	62.4	62.1	63.9	64.0	62.9	116.8
DATE 7/26/74	250	79.2	79.2	78.0	77.9	76.9	75.1	74.0	74.3	70.8	67.9	65.5	66.2	66.9	68.1	68.8	123.0
RUN 439	315	80.1	79.9	79.8	79.9	79.0	76.8	75.1	74.9	72.7	70.8	67.3	67.1	67.9	67.0	67.7	124.5
TAPE S3145	400	76.9	76.9	78.7	77.8	76.9	74.7	74.1	74.1	71.9	71.7	70.0	70.0	71.0	67.9	68.7	123.6
BAR 28.9 HG	500	79.8	76.7	76.4	75.9	74.9	73.9	72.1	73.2	69.5	71.7	68.9	70.9	69.8	68.6	67.8	122.4
(97692. N/M2)	630	82.5	83.2	83.2	82.3	81.0	78.2	77.4	76.3	74.2	72.9	71.3	72.2	73.0	70.9	72.8	127.1
TAMB 83. DEG F	800	80.2	81.1	82.0	81.9	79.9	78.1	78.0	78.0	74.2	72.8	71.1	71.9	72.8	69.8	71.5	126.9
(301. DEG K)	1000	83.1	83.2	83.2	82.1	81.2	81.3	80.2	78.3	75.0	73.0	72.5	73.4	73.0	71.1	71.0	128.2
TMET 72. DEG F	1250	87.5	85.9	86.0	86.2	86.2	85.3	85.0	83.1	80.9	80.0	78.2	78.3	77.1	75.1	72.5	132.7
(295. DEG K)	1600	87.2	87.3	87.1	86.2	86.2	85.4	83.1	79.9	79.1	76.3	76.3	77.1	73.9	72.6	69.1	133.0
FACT 15.98 GM/M3	2000	87.8	88.4	91.2	89.3	89.1	87.3	88.3	88.3	82.2	81.1	79.6	77.1	78.2	74.3	74.7	136.0
(.01598 KG/M3)	2500	91.3	92.0	92.0	92.1	91.0	90.8	88.3	88.2	84.7	83.8	80.2	78.1	79.9	76.0	76.6	137.7
NFA 7569. RPM	3150	94.3	92.4	93.3	91.5	95.0	93.3	90.5	91.4	88.1	85.1	80.5	80.3	80.2	77.2	76.1	140.1
( 792. RAD/SEC)	4000	95.2	96.0	97.0	94.3	92.1	91.0	93.4	93.3	89.2	84.9	81.6	81.6	80.0	77.0	75.9	141.3
NFK 7400. RPM	5000	95.4	96.5	96.0	96.5	98.4	97.5	96.6	94.4	94.3	89.3	85.6	83.5	85.1	81.1	79.1	144.7
( 775. RAD/SEC)	6300	95.7	95.6	95.1	93.5	96.3	94.2	94.5	92.4	91.4	87.4	83.6	81.7	81.2	77.3	78.4	142.8
NFD10628. RPM	8000	93.4	95.1	93.0	92.4	93.1	92.1	91.5	90.5	88.2	83.3	79.7	78.5	77.3	75.2	72.8	140.9
(1113. RAD/SEC)	10000	93.4	93.3	92.1	90.3	91.9	91.2	90.4	87.1	84.9	81.8	78.4	75.3	75.1	71.8	71.8	140.1
NO. OF BLADES 44	12500	89.8	90.0	88.5	87.8	88.9	88.7	87.9	84.9	82.7	78.6	74.1	71.7	71.6	68.7	67.4	138.5
	16000	86.5	85.5	84.3	83.5	85.4	83.1	83.2	80.5	78.3	75.1	68.4	67.6	66.1	65.4	65.0	136.1
	20000	80.7	80.7	79.7	78.7	79.7	78.6	77.7	75.9	73.7	73.5	64.8	63.7	63.8	64.8	63.4	133.9
OVERALL MEASURED	103.4	104.3	104.1	103.2	104.2	103.1	102.0	101.3	99.2	96.1	93.3	91.3	91.8	89.2	89.6	91.9	
OVERALL CALCULATED	103.6	103.9	103.8	102.7	103.9	102.7	102.2	100.9	98.9	95.2	91.7	90.5	90.8	87.7	87.2	85.9	151.0
PNDR	116.5	117.0	117.3	116.3	117.5	116.4	115.6	114.2	112.7	109.8	105.6	104.3	105.0	101.7	100.7		

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (H.)	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	78.0	79.0	78.7	78.8	78.5	77.6	76.8	77.9	76.9	75.8	73.8	75.0	75.9	75.9	76.5	80.5	126.8	
63	76.3	76.1	78.8	74.9	82.0	80.7	72.4	73.0	73.2	79.2	73.0	72.1	72.9	74.1	74.8	78.7	126.5	
RADIAL 100. FT. (30. M)	80	71.6	72.8	70.4	71.3	71.5	71.4	71.9	71.5	71.5	72.4	71.8	68.4	68.4	69.4	70.2	72.5	121.0
VEHICLE ATT	100	70.2	70.9	71.1	70.8	71.6	68.9	69.0	69.9	68.9	67.7	67.0	68.8	68.8	69.9	69.5	71.7	119.4
CONFIG T/O	125	72.5	72.2	69.9	71.1	71.2	70.1	69.2	69.1	68.3	67.0	66.2	69.5	70.4	67.2	68.8	71.0	119.2
LCC PTO	160	78.1	69.8	68.9	70.8	71.6	74.8	69.9	75.1	70.0	68.6	69.0	72.9	75.9	72.8	73.5	70.0	122.5
DATE 7/26/74	200	72.0	71.2	71.1	70.0	69.7	68.2	68.4	68.0	65.8	64.7	64.0	64.9	67.0	67.0	65.8	67.8	117.5
RUN 440	250	78.3	78.0	77.0	77.0	75.1	74.0	73.2	72.0	69.8	68.2	68.1	68.1	69.4	69.9	69.6	68.9	122.2
TAPE S3145	315	79.9	79.9	80.8	81.1	78.9	78.1	75.2	74.4	73.9	74.8	76.1	77.1	72.2	74.1	70.8	70.7	126.4
WAR 28.9 HG (97692. N/M2)	400	76.1	76.8	77.9	76.8	76.9	74.9	73.2	73.9	71.6	71.9	70.2	70.9	74.9	72.0	71.7	69.6	123.8
TAMB 83. DEG F (301. DEG K)	500	76.9	78.0	77.6	77.9	78.8	78.9	74.9	75.0	75.8	76.5	73.8	74.9	76.8	73.9	75.4	73.6	126.4
TWET 72. DEG F (295. DEG K)	630	83.2	83.3	84.0	83.3	85.3	87.2	85.3	86.4	90.2	85.3	83.2	86.2	83.1	82.4	88.1	85.8	136.4
FACT 15.98 GM/M3 (0.01598 KG/M3)	800	94.0	94.9	92.0	93.2	98.8	93.2	95.0	97.1	99.9	96.0	93.3	96.1	98.9	90.9	89.6	94.0	146.5
RFA 9181. RPM (961. RAD/SEC)	1000	96.5	92.2	96.0	97.3	103.0	102.1	103.5	98.2	100.4	98.7	94.6	99.3	96.1	91.4	90.8	88.9	149.5
RFK 8978. RPM (940. RAD/SEC)	1250	95.1	97.1	102.1	100.9	100.0	97.9	98.3	94.2	92.1	90.8	90.4	91.3	91.9	87.2	89.7	86.0	146.1
RFD 10628. RPM (1113. RAD/SEC)	1600	98.3	99.0	99.0	98.2	97.2	96.1	98.5	98.4	98.2	97.0	91.3	92.2	92.3	89.0	86.7	82.8	146.6
NO. OF BLADES 44	2000	101.5	97.5	101.3	99.2	96.1	98.4	99.3	100.5	100.2	99.2	94.4	91.6	90.6	87.2	87.1	82.9	148.2
16000	2500	97.3	99.9	99.7	97.9	98.7	98.1	96.3	97.2	94.1	91.0	89.1	86.9	89.0	85.1	83.7	81.6	145.5
18000	3150	99.3	96.2	98.4	96.5	99.3	101.1	98.3	95.2	94.1	91.1	87.7	88.4	88.5	84.4	85.1	82.0	146.1
20000	4000	98.4	100.0	99.0	97.5	95.2	95.3	97.4	96.3	92.9	88.9	85.4	87.3	83.9	81.2	79.1	80.0	144.7
16000	5000	96.6	97.5	96.3	96.5	98.4	98.5	96.6	94.5	95.4	91.4	88.4	85.1	86.1	82.3	80.4	78.1	145.3
18000	6300	97.5	96.6	95.4	93.9	96.4	94.5	93.6	92.2	91.7	88.5	84.7	82.6	81.4	78.4	79.1	77.0	142.9
20000	8000	94.3	95.2	93.1	93.3	94.2	93.3	93.5	92.1	89.3	87.1	82.4	81.2	80.3	77.2	74.9	73.7	142.3
16000	10000	93.3	92.3	91.0	89.2	92.1	91.2	90.4	89.3	86.3	83.6	81.3	78.2	77.2	73.9	72.9	71.7	140.4
18000	12500	89.7	89.0	87.6	86.9	87.6	88.7	87.9	86.7	83.5	81.5	78.0	75.1	74.9	70.7	66.6	68.7	138.6
20000	16000	85.6	85.5	83.2	83.3	85.3	83.4	83.4	82.3	80.3	77.4	73.4	72.6	70.7	67.2	66.1	65.9	136.6
20000	18000	81.0	79.7	78.5	78.1	79.5	78.6	78.9	76.9	75.7	74.5	71.0	69.0	69.6	64.8	63.7	63.4	134.4
OVERALL MEASURED	107.3	107.2	109.0	108.0	109.0	108.9	108.0	107.0	107.2	104.8	101.4	102.3	102.3	96.9	97.6	97.7		
OVERALL CALCULATED	108.4	108.1	109.0	107.9	109.3	108.6	108.8	107.3	107.4	105.1	101.4	103.0	102.8	97.7	97.2	97.2		156.9
PND8	121.1	121.3	121.1	120.8	121.3	121.7	120.4	119.4	118.9	117.0	113.1	112.2	112.0	106.2	108.1	106.7		

REPRODUCIBILITY OF THIS  
 ORIGINAL PAGE IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH & DAY 26 HR. 22:7  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PNL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	77.9	80.5	77.0	78.8	79.0	77.8	77.4	76.9	78.1	76.8	73.9	73.5	74.9	76.0	74.1	77.0	126.6
63	75.0	75.8	77.9	75.0	81.9	80.9	73.9	73.3	74.2	79.3	72.9	73.1	75.1	74.4	72.3	76.9	126.6
RADIAL 100. FT. (30. M)	80	72.0	74.4	71.9	71.0	71.7	70.8	71.2	68.8	71.6	69.5	66.2	67.3	70.1	69.7	71.4	120.3
VEHICLE ATT	100	72.3	72.7	71.8	71.3	69.8	68.9	68.7	67.0	67.0	66.9	68.1	68.5	68.8	68.0	71.0	118.8
CONFIG T=0	125	69.2	70.1	68.2	69.4	68.1	67.3	66.8	66.4	67.4	67.1	66.2	67.0	69.0	68.3	69.2	118.0
LOC PYO	160	77.0	72.9	62.7	70.8	69.0	78.0	71.4	73.9	73.8	65.8	78.0	72.8	74.6	79.3	73.9	125.0
DATE 7/27/74	200	68.3	69.0	67.1	67.3	67.9	66.9	66.7	65.1	67.1	65.2	65.9	65.8	66.8	68.2	66.9	116.8
RUN 441	250	73.1	74.1	73.3	73.1	72.2	72.0	71.6	69.3	70.1	68.3	66.9	67.0	69.2	70.5	69.1	120.4
TAPE S3145	315	77.0	78.8	77.9	80.3	87.1	85.1	81.9	81.1	83.0	81.9	79.0	77.7	79.1	78.4	77.2	131.8
BAR 28.9 HG	400	71.2	74.7	77.9	76.0	75.2	78.2	74.8	76.0	74.3	73.9	72.9	74.0	75.7	72.4	72.9	125.1
(97692. N/M2)	500	76.8	84.5	90.1	86.0	83.7	91.9	86.4	90.1	88.1	86.9	85.0	88.0	88.8	84.1	83.1	137.7
TAMB 83. DEG F	600	84.2	87.0	88.5	84.1	84.5	96.6	96.8	97.6	98.5	96.4	92.4	92.0	93.2	85.6	82.3	144.9
(301. DEG K)	800	94.3	90.0	96.0	98.3	89.2	94.3	96.7	93.4	96.1	93.3	92.1	89.9	95.7	95.3	85.1	144.7
TWEY 71. DEG F	1000	91.4	90.3	88.9	90.5	95.3	95.4	99.2	97.5	97.5	94.6	90.2	90.1	93.3	89.7	87.6	145.0
(295. DEG K)	1250	90.2	92.8	92.0	93.4	92.1	95.1	95.0	93.2	92.1	89.2	89.1	85.7	88.1	84.4	82.5	141.8
HACT 15.53 GM/H3	1600	96.4	97.0	97.4	98.5	91.3	92.1	93.8	90.4	88.6	87.4	83.3	84.7	85.9	82.6	82.6	141.6
(-01553 KG/H3)	2000	102.6	100.2	98.6	94.3	92.5	92.4	91.2	88.7	87.5	85.5	83.4	82.9	84.1	81.4	81.5	140.9
NFA 9647. RPM	2500	94.2	98.8	96.1	96.3	91.4	92.4	91.8	89.3	89.3	87.3	83.8	83.6	85.1	82.5	81.4	141.0
(1010. RAD/SEC)	3150	96.1	94.7	94.2	90.3	93.1	92.0	89.6	89.2	88.1	85.2	82.1	81.8	81.8	79.4	78.4	139.3
NFK 9431. RPM	4000	97.2	96.9	93.2	93.3	89.1	88.1	88.9	89.2	86.0	83.1	79.1	79.8	78.9	77.3	75.3	138.8
(987. RAD/SEC)	5000	92.3	94.2	92.6	91.3	91.7	91.2	87.9	86.2	86.5	85.1	82.5	79.1	82.0	78.0	76.6	138.7
NFD 10628. RPM	6300	93.9	93.2	91.4	88.6	90.4	86.2	86.8	83.5	83.6	82.2	79.1	77.1	78.1	74.7	77.7	136.7
(1113. RAD/SEC)	8000	90.3	91.9	88.3	87.2	87.2	85.0	85.7	82.1	82.3	79.0	74.9	76.6	76.6	73.3	73.2	135.3
NO. OF BLADES 44	12500	89.5	89.7	86.0	83.2	85.8	82.8	82.4	79.1	78.9	77.1	73.9	72.4	73.0	69.3	70.3	133.5
	15000	85.8	85.7	82.5	80.7	80.6	79.6	79.2	76.7	75.6	74.7	70.8	69.4	70.5	65.9	66.1	131.2
	20000	82.2	82.2	78.4	77.1	77.1	75.3	75.1	72.2	73.2	73.2	67.3	68.0	68.3	64.4	65.6	129.7
OVERALL MEASURED		77.1	76.6	74.8	73.1	72.8	71.7	70.3	68.7	70.8	72.1	65.9	66.3	67.8	61.8	63.2	128.9
OVERALL CALCULATED		106.4	106.8	105.0	105.3	103.4	104.1	104.9	103.8	103.9	102.1	98.8	97.9	100.7	97.3	94.8	94.9
PND6		106.7	106.4	105.3	104.9	103.2	104.1	104.7	103.5	103.7	101.7	98.5	97.7	100.5	98.0	93.8	92.4
		119.9	119.4	117.8	117.1	115.7	115.5	114.7	113.2	112.8	110.7	107.7	107.2	109.1	107.2	104.7	102.3

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MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANE)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	79.2	80.5	77.0	79.1	78.9	78.0	77.7	76.9	77.1	77.1	74.7	74.7	76.0	77.0	77.0	80.0	127.2	
63	76.1	76.8	78.9	75.1	82.1	80.3	73.0	71.1	73.2	79.0	72.8	72.7	74.3	75.1	76.2	78.2	126.5	
RADIAL 100. FT. (30. M)	80	70.9	73.4	70.8	80.7	71.8	71.8	68.9	70.7	70.9	69.8	66.5	66.9	69.7	70.8	71.5	120.2	
VEHICLE ATT	125	71.2	71.3	69.9	70.6	68.9	68.5	68.1	67.4	68.2	67.1	65.5	67.8	69.3	67.5	70.9	70.0	118.4
CONFIG T=0	160	78.1	71.8	66.7	69.1	70.7	75.0	71.7	74.2	71.9	69.1	69.8	72.8	75.0	73.0	74.2	69.9	122.5
LOC PTD	200	70.1	70.8	69.3	68.4	68.1	66.9	65.1	65.3	64.3	63.2	63.9	65.2	66.3	66.3	66.2	66.2	116.2
DATE 7/27/74	250	76.1	75.8	75.2	74.3	73.2	72.1	71.7	69.1	69.0	66.9	66.1	66.9	68.3	69.5	69.1	67.8	120.5
RUN 442	315	77.0	78.7	79.2	79.4	77.2	74.3	75.9	73.1	74.4	72.0	74.0	73.0	75.4	71.1	69.8	125.1	
TAPE S3145	400	74.3	76.0	74.9	75.0	79.8	77.3	73.5	72.0	70.0	74.0	69.2	72.7	75.2	72.0	72.5	69.2	124.4
BAR 28.9 HG	500	79.1	77.8	77.8	77.1	86.7	85.1	80.7	80.2	82.0	81.8	78.0	79.4	80.7	76.0	78.1	74.6	131.5
(97692. N/M2)	630	86.5	88.3	88.2	85.6	94.1	95.3	93.1	93.6	97.4	92.2	92.2	90.9	89.5	87.7	92.8	88.2	143.0
TAMB 83. DEG F	800	93.1	95.1	94.0	96.2	97.2	95.2	101.0	95.5	97.2	95.4	95.0	95.8	98.1	89.2	91.3	93.0	146.7
(301. DEG K)	1000	92.3	91.4	93.2	95.7	100.0	102.4	102.2	98.7	99.8	97.2	95.6	96.3	96.5	90.6	86.4	87.4	148.6
TMET 71. DEG F	1250	95.5	99.2	103.2	102.3	100.8	100.5	97.8	95.2	97.2	95.1	91.0	93.0	91.2	90.2	86.2	84.3	147.5
(295. DEG K)	1600	98.3	101.2	100.0	99.7	97.3	97.5	95.9	96.3	95.4	95.1	91.1	91.9	90.4	89.4	87.5	81.1	145.8
HACT 13.53 GM/M3	2000	100.3	98.3	101.3	98.5	98.2	96.7	98.0	96.0	95.5	95.3	91.5	89.1	89.3	85.4	85.7	82.4	146.0
(1553 KG/M3)	2500	98.0	99.8	100.1	99.5	98.8	97.3	96.0	94.1	94.5	91.0	88.1	86.6	88.3	84.1	84.3	81.3	145.2
NFA 201. RPM	3150	97.1	96.8	98.1	96.4	98.2	98.1	96.7	93.4	93.2	91.3	87.0	86.0	86.2	83.3	82.3	80.2	144.6
(963. RAD/SEC)	4000	97.1	98.8	98.9	96.4	92.8	93.4	95.9	93.4	91.7	87.2	83.8	84.5	83.1	80.1	78.1	78.9	143.1
NFK 8995. RPM	5000	95.5	97.2	95.3	95.4	96.3	96.5	95.3	92.5	94.9	90.2	87.1	82.8	85.1	81.3	79.3	76.3	143.9
(942. RAD/SEC)	6300	96.3	95.3	94.6	92.6	94.4	92.3	93.1	89.4	89.8	87.6	83.3	80.9	81.4	77.5	78.7	75.3	141.3
NFD 10628. RPM	8000	93.2	94.2	93.0	91.6	92.1	91.4	92.1	88.5	88.7	85.3	82.0	79.8	79.2	76.2	74.4	72.4	140.6
(1113. RAD/SEC)	10000	90.9	92.0	89.8	88.5	90.7	90.0	89.6	85.2	85.3	82.7	79.7	75.8	76.0	71.8	72.1	70.0	139.0
NO. OF BLADES 44	12500	87.9	87.7	86.8	85.7	86.8	85.9	86.6	82.6	82.2	79.8	75.5	73.3	72.5	68.9	67.7	66.8	136.8
	16000	84.2	84.2	82.3	82.2	83.0	82.4	82.1	79.2	77.6	76.1	72.3	70.1	69.4	65.5	64.5	65.5	134.9
	20000	78.8	79.9	77.6	77.2	78.6	77.1	76.7	73.9	74.3	74.8	69.9	68.4	67.8	65.2	62.1	64.7	133.1
OVERALL MEASURED		107.8	109.1	109.3	108.1	108.2	108.8	108.6	105.5	106.4	104.0	102.0	101.8	102.3	97.4	97.1	97.3	
OVERALL CALCULATED		107.3	108.5	109.3	108.3	108.3	108.4	108.4	105.6	106.5	104.2	101.8	101.9	102.4	97.7	97.7	96.5	156.3
PND6		119.8	120.9	121.1	120.3	120.4	120.2	119.5	116.8	117.3	115.2	111.9	110.9	111.3	108.1	107.4	105.7	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. H<sub>2</sub>O, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADJANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	77.9	80.5	77.0	79.7	78.8	78.0	77.7	78.0	78.0	78.0	73.9	73.7	74.7	76.0	75.1	77.0	126.9
63	79.4	77.2	78.2	79.6	81.9	80.0	72.7	71.1	75.5	80.3	72.9	71.0	71.2	73.4	76.2	75.8	126.5
RADIAL 100. FT. (30. M)	80	74.0	75.4	72.5	71.6	72.6	70.6	70.3	67.9	72.1	71.8	69.5	66.6	68.4	70.7	70.6	120.6
VEHICLE ATT	100	72.3	72.9	71.8	70.1	69.7	69.0	68.5	65.3	66.4	67.8	69.0	68.8	69.1	69.0	68.2	118.8
CONFIG T=0	125	69.2	70.1	68.8	69.4	68.2	67.2	67.8	65.5	66.3	67.2	66.1	66.9	69.1	68.5	70.2	118.1
LOC PTO	160	76.1	78.6	73.0	71.8	67.6	77.0	79.5	75.1	78.0	74.7	76.8	70.5	78.8	80.2	77.1	126.1
DATE 7/27/74	200	88.3	69.9	68.1	68.3	67.8	67.9	68.7	67.0	66.5	65.9	65.9	66.0	69.2	69.3	68.0	117.7
RUN 443	250	73.1	73.2	72.9	73.0	71.8	71.0	71.7	69.0	68.4	67.1	65.9	66.9	69.2	70.4	69.3	119.9
TAPE SS145	315	83.0	80.0	80.9	80.0	81.9	80.0	82.9	83.5	82.4	77.3	72.8	78.2	80.2	80.4	80.2	130.7
BAR 28.9 HG	400	73.2	75.0	75.1	76.3	75.7	75.2	74.7	73.0	73.1	72.9	69.1	71.7	75.2	73.2	73.0	123.9
(97892. N/M2)	500	76.8	83.6	84.7	80.0	88.5	90.0	87.8	86.2	89.3	88.1	82.0	77.8	87.1	83.0	81.2	136.5
TAMP 83. DEG F	630	87.6	89.0	90.4	90.5	91.2	90.5	96.2	93.2	91.8	94.4	88.1	92.1	91.5	83.5	87.4	142.1
(301. DEG K)	800	89.4	88.2	88.1	91.2	93.6	96.3	94.8	91.4	89.6	90.3	87.2	87.9	88.2	86.4	82.4	141.4
TWET 71. DEG F	1000	86.6	88.2	86.1	87.3	88.2	88.3	92.4	89.3	89.5	86.3	84.1	86.3	81.2	81.6	81.6	137.8
(295. DEG K)	1250	88.1	89.2	89.3	89.2	87.7	89.2	89.9	86.4	87.3	85.1	83.1	83.1	83.2	82.7	80.5	136.9
MACT 15.53 GM/M3	1600	90.5	93.3	93.4	91.5	89.1	89.3	92.0	87.5	88.6	85.2	84.3	84.0	84.4	82.6	80.4	138.6
(.01553 KG/M3)	2000	93.4	92.4	91.3	90.6	88.0	88.6	88.1	86.4	84.7	83.3	81.3	81.2	82.3	76.8	79.5	136.6
NFA 9848. RPM	2500	91.4	93.1	91.3	90.2	89.7	88.3	86.9	86.2	85.5	82.2	80.2	79.1	82.0	79.4	79.2	136.6
(1031. RAD/SEC)	3150	91.1	89.9	89.0	87.2	88.8	87.2	85.9	84.3	83.7	82.1	78.2	78.8	79.1	76.4	76.9	139.1
NFK 9628. RPM	4000	90.1	92.1	90.3	88.1	83.5	82.9	85.6	83.4	81.7	78.3	76.2	77.7	76.2	75.0	73.9	134.1
(1008. RAD/SEC)	5000	88.6	90.0	87.3	86.3	87.0	86.3	83.8	82.2	83.4	80.3	77.4	77.1	78.2	76.5	74.5	134.2
NFD 10628. RPM	6300	88.6	88.2	86.0	83.5	84.1	81.4	82.1	79.5	79.9	77.6	75.3	75.1	75.4	73.5	70.1	131.9
(1113. RAD/SEC)	8000	89.4	87.1	83.1	82.5	82.7	81.4	80.7	78.5	78.4	76.0	74.2	77.1	75.0	74.5	73.2	131.4
NO. OF BLADES 44	10000	83.1	83.8	81.0	79.4	79.5	78.8	77.7	74.9	74.1	73.1	71.0	70.8	70.8	67.9	69.8	128.9
12500	80.0	80.4	77.6	76.0	76.3	75.9	75.3	71.6	71.8	69.6	68.5	68.3	68.6	65.8	65.7	64.5	127.1
16000	76.3	77.2	74.1	73.6	74.2	71.4	72.1	68.2	68.6	69.4	65.3	66.9	67.4	66.3	65.2	63.9	126.3
20000	72.8	72.8	71.7	69.9	72.8	68.7	69.4	64.1	64.9	69.7	61.9	63.5	62.7	65.9	62.8	65.1	126.6
OVERALL MEASURED	101.4	101.9	99.9	100.1	99.6	101.0	102.1	99.1	98.6	98.0	94.2	95.8	96.1	94.5	94.4	94.0	
OVERALL CALCULATED	100.9	101.7	100.7	100.4	100.2	100.8	101.8	98.9	98.3	98.3	94.3	95.8	96.2	93.2	92.7	90.4	149.0
PND6	113.8	114.7	113.2	112.5	112.0	111.3	111.5	109.3	108.8	107.6	104.3	105.3	105.7	103.6	103.2	100.0	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY) ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
FREQ.	50	80.0	82.0	78.9	81.2	80.0	79.3	79.7	78.9	79.1	78.1	76.8	75.4	76.8	76.9	76.1	77.7	128.2
	63	79.5	80.2	80.1	78.12	81.9	80.5	74.0	71.3	76.3	81.3	75.1	74.6	76.4	77.1	77.3	76.2	127.8
RADIAL 100. FT.	80	72.6	74.6	71.8	71.16	71.7	78.9	70.6	68.9	72.7	73.6	72.7	69.5	69.5	70.9	71.9	71.8	121.5
( 30. M)	100	71.0	70.6	70.2	69.3	68.0	68.0	66.7	66.0	68.1	69.9	71.0	68.5	69.8	67.8	69.0	71.0	118.9
VEHICLE ATT	125	68.6	68.3	67.2	68.5	68.4	68.6	67.1	67.5	67.6	69.3	70.1	66.9	70.2	69.2	71.3	72.3	119.0
CONFIG Y=0	160	68.8	68.6	70.1	73.0	76.9	78.2	75.8	78.9	75.0	69.8	70.7	68.8	69.0	74.8	72.2	70.7	124.5
LOC PTD	200	71.3	71.8	73.3	76.1	79.9	81.1	79.0	82.1	78.6	71.0	71.0	69.6	71.3	76.1	73.4	70.2	127.3
DATE 7/27/74	250	68.3	68.9	68.0	67.0	67.1	68.3	67.8	66.1	66.5	67.0	67.2	66.9	69.2	70.3	69.3	69.0	118.0
RUN 444	315	69.4	69.9	71.4	72.1	71.2	70.1	69.1	68.1	69.2	69.0	69.3	70.7	73.1	73.1	72.0	70.1	120.9
TAPF 53145	400	70.1	73.7	73.9	94.3	72.7	71.1	70.7	67.0	70.4	69.2	69.2	71.6	74.1	74.2	73.3	71.2	122.0
BAR 28.9 HG	500	72.0	74.8	74.7	73.8	72.9	71.2	71.8	71.9	73.0	72.0	70.6	71.5	74.8	76.2	74.0	72.9	123.3
(97692. N/M2)	630	70.2	73.3	74.3	74.1	73.4	71.3	71.3	70.6	71.4	72.4	71.4	70.9	72.3	74.2	74.5	72.4	122.7
TAMB 83. DEG F	800	71.4	73.9	76.1	77.1	74.0	74.0	72.6	72.1	72.2	72.2	72.0	70.7	73.0	72.9	71.1	69.3	123.3
(301. DEG K)	1000	71.2	73.3	74.5	74.4	73.4	72.5	73.2	72.3	72.7	72.2	72.1	73.8	73.5	74.6	72.6	69.4	123.5
TWET 71. DEG F	1250	73.2	74.9	77.1	77.1	75.9	75.4	74.7	72.8	74.1	72.9	73.3	75.6	76.0	74.3	74.0	69.8	125.2
(295. DEG K)	1600	72.2	75.0	76.5	77.2	76.0	74.1	75.2	73.4	73.5	73.3	73.3	74.7	75.4	74.2	74.1	69.1	125.0
MACH 15.53 GM/M3	2000	72.6	76.4	76.5	78.5	77.2	75.4	74.9	73.6	74.3	73.6	73.4	75.1	76.3	75.2	76.4	70.1	125.9
(.01553 KG/M3)	2500	74.0	76.8	78.3	80.3	79.9	78.3	75.8	73.4	75.3	75.3	74.3	75.9	77.7	77.4	78.3	71.2	127.4
NFA 10750. RPM	3150	74.0	74.7	76.0	77.0	77.9	75.4	76.8	75.0	74.2	74.9	73.0	76.7	75.2	76.3	76.3	71.1	126.5
(1126. RAD/SEC)	4000	73.4	78.2	79.4	78.4	75.8	73.2	75.1	73.7	73.3	72.1	73.1	76.6	75.8	79.3	76.1	72.2	126.3
NFK 10510. RPM	5000	72.5	76.0	76.4	78.3	77.3	76.0	75.1	73.5	75.3	75.2	75.0	77.1	78.2	76.2	75.4	69.3	127.2
(1100. RAD/SEC)	6300	73.7	74.9	77.5	75.5	79.2	73.5	74.0	72.4	73.5	73.4	73.0	73.8	75.2	73.2	77.4	71.0	126.4
NFD 10628. RPM	8000	73.1	76.9	75.2	78.1	77.3	75.5	77.9	79.2	77.3	76.4	74.0	79.8	77.1	77.2	74.4	70.0	129.4
(1113. RAD/SEC)	10000	70.8	71.9	72.1	71.8	72.9	70.9	71.6	70.1	70.3	70.2	69.7	71.5	71.8	70.1	71.0	66.8	124.0
NO. OF BLADES 44	12500	68.9	68.7	68.9	68.6	69.5	68.9	69.7	66.9	68.8	66.5	66.6	68.6	69.6	66.7	66.8	64.8	122.5
	16000	66.2	66.3	66.5	66.5	68.3	66.3	67.2	66.3	65.0	69.2	64.1	67.9	68.4	66.3	66.3	64.1	123.2
	20000	62.7	62.6	62.6	61.7	64.7	63.8	63.8	64.0	64.0	70.7	61.7	63.6	64.7	65.1	64.1	65.0	123.9
OVERALL MEASURED		92.4	92.9	90.1	92.1	92.9	91.3	91.9	91.4	91.6	92.3	90.1	90.7	91.3	91.0	92.5	92.9	
OVERALL CALCULATED		87.3	89.4	89.6	90.3	90.5	89.2	88.5	88.5	88.1	88.0	86.6	88.0	88.5	88.6	88.4	85.7	
PNDH		98.6	101.6	102.9	102.9	102.7	100.3	100.7	99.5	99.5	99.3	98.7	100.6	101.2	100.9	101.2	96.9	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. H.(M, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.1)	(0.17)	(0.33)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)	
RADIAL 100. FT. (30. M)	80.0	81.9	78.6	80.7	80.0	79.2	78.8	79.0	79.2	79.1	76.0	75.4	76.7	76.3	76.9	78.9	128.3
VEHICLE ATT	79.3	80.1	80.3	78.2	82.1	80.3	74.0	71.1	76.2	71.5	73.8	74.9	76.7	76.4	76.1	77.9	127.7
COAFIG 1-2	72.9	75.2	71.8	71.4	71.5	70.6	78.5	68.9	72.7	73.5	71.7	69.6	69.4	71.9	71.7	73.5	121.5
LOC PTH	71.0	70.9	70.1	68.9	67.7	67.9	67.6	66.2	68.0	68.9	69.1	68.6	69.7	69.0	69.0	72.1	118.7
DATE 7/77/74	69.3	69.0	67.1	68.5	68.4	68.5	67.9	67.5	67.5	68.5	69.0	68.1	69.1	69.2	71.6	73.1	118.9
RUN 445	69.9	59.5	69.0	72.7	76.7	78.2	75.5	78.2	75.8	69.8	69.0	68.5	69.2	73.9	70.9	71.0	124.4
TARE 33145	72.1	71.7	72.2	75.8	79.2	81.1	77.9	82.1	78.1	71.0	72.3	71.0	69.8	75.0	72.1	69.8	127.0
BAR 28.9 HG	68.4	68.8	67.9	68.0	67.1	68.0	68.7	66.1	66.3	66.3	66.0	66.7	69.8	70.2	69.4	69.2	118.0
(97692. N/M2)	70.1	70.1	71.2	71.9	71.8	69.9	68.9	67.3	69.4	68.3	68.2	71.0	73.1	73.0	73.0	71.0	120.9
TARE 83. DEG F	69.0	73.6	73.1	74.9	72.8	72.2	72.0	67.1	71.0	69.9	68.9	71.6	75.0	74.4	74.4	70.9	122.6
(301. DEG K)	72.1	74.4	75.1	73.9	72.7	72.1	71.4	72.1	73.0	72.0	70.9	70.8	73.0	75.3	75.0	72.7	123.2
TARE 83. DEG F	72.1	73.7	75.3	77.0	73.1	73.1	72.0	71.3	71.3	71.2	70.4	69.8	72.5	73.5	74.2	71.4	122.1
(301. DEG K)	71.7	74.2	74.5	75.3	73.2	72.2	73.9	72.2	72.2	72.0	71.2	70.7	71.0	72.3	71.5	69.3	122.0
TARE 71. DEG F	73.0	74.7	75.9	77.3	75.9	74.4	74.0	72.3	74.0	73.2	72.8	75.0	76.3	73.0	74.5	69.8	124.8
(295. DEG K)	73.1	75.0	76.3	76.0	76.0	74.5	75.1	73.2	74.0	73.1	72.0	76.1	74.2	73.5	74.2	69.3	124.9
HACT 15.53 G4/H3	72.6	77.3	77.4	79.3	77.5	74.5	75.2	73.5	74.2	73.4	73.1	74.8	76.5	75.7	75.5	71.2	126.0
(.01553 KG/M3)	74.4	76.7	79.0	80.2	80.0	77.4	76.8	73.0	75.2	75.0	73.9	76.0	77.3	77.5	78.2	72.2	127.5
NFA 10750. RPM	74.3	74.0	77.9	77.1	78.2	75.8	76.7	74.2	74.9	76.0	72.1	76.6	73.8	75.8	76.3	70.9	126.4
(1126. RAD/SEC)	73.2	77.7	78.9	78.1	76.0	74.3	75.9	73.2	72.9	72.1	71.8	75.9	74.0	75.4	74.9	72.1	126.0
NFA 10510. RPM	72.4	75.0	76.0	78.4	77.1	76.2	75.0	73.4	76.5	75.4	75.1	76.9	77.1	76.5	75.5	69.0	127.2
(1100. RAD/SEC)	73.6	75.0	77.5	76.5	78.2	74.2	74.7	72.3	75.5	73.6	72.1	73.9	75.5	73.5	77.4	70.4	126.3
NFA 10628. RPM	73.4	76.9	76.2	78.0	77.0	75.3	79.8	79.2	76.1	75.1	75.3	79.1	77.2	76.6	74.4	69.9	129.3
(1113. RAD/SEC)	71.0	72.5	72.0	71.9	72.7	70.8	71.7	69.9	71.1	70.1	69.7	71.8	71.9	70.3	71.2	67.0	124.1
NO. OF BLADES 44	68.1	68.7	65.8	68.4	69.4	69.0	69.5	66.7	67.9	67.7	66.6	66.2	69.3	67.0	67.0	64.4	122.3
10000	65.5	66.2	66.1	66.1	67.4	64.6	66.9	65.3	66.5	70.4	64.3	67.1	68.0	66.2	66.3	64.3	123.1
20000	62.9	62.9	63.4	60.7	64.6	63.0	62.3	61.7	64.0	71.9	61.9	63.7	64.0	65.9	64.1	64.9	124.3
OVERALL MEASURED	92.2	92.8	90.0	91.8	92.9	91.4	92.0	91.4	91.2	92.3	90.0	90.8	91.0	91.5	92.1	93.3	
OVERALL CALCULATED	87.5	89.1	89.6	90.2	90.3	88.2	88.6	88.4	88.1	88.1	86.1	87.8	88.4	88.4	88.3	86.3	
0.05	98.8	101.4	102.4	102.9	102.6	100.7	100.6	99.1	99.9	99.7	98.3	100.5	100.7	100.8	101.1	97.0	139.4

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MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	79.0	81.7	77.7	79.8	79.9	78.9	78.8	78.1	78.2	77.9	75.0	73.7	75.5	77.0	75.2	78.0	127.5
63	76.0	78.9	80.3	78.0	82.2	80.1	74.9	72.0	74.1	79.4	74.1	72.9	71.0	76.0	76.0	75.8	126.9
RADIAL 100. FT. (30. M)	80	72.8	74.4	71.6	72.7	78.6	69.6	67.7	71.5	71.5	70.8	67.5	68.9	71.7	70.9	72.6	120.7
VEHICLE ATT CONFIG T-0	108	72.2	72.6	70.8	68.7	67.8	67.6	65.3	67.0	68.8	68.8	67.9	67.8	68.4	68.3	71.8	118.5
LOC PTD	125	70.2	70.2	69.0	70.1	67.2	67.1	67.1	66.5	70.2	66.1	67.1	69.5	70.3	71.6	74.2	119.2
DATE 7/27/74	160	78.9	80.7	77.6	79.8	70.7	72.6	80.8	77.2	86.9	71.7	79.1	81.8	79.0	79.9	73.6	130.3
RUN 446	200	69.0	70.9	67.9	70.3	67.9	67.2	70.7	68.3	74.4	65.9	68.3	68.6	71.2	69.5	70.3	120.0
TAPP 53145	250	70.4	72.2	72.3	72.2	72.0	72.1	72.0	69.1	68.3	67.3	67.7	69.6	70.5	70.4	69.9	120.4
HAC 28.9 HG (97692. N/M2)	315	84.4	85.1	89.9	89.9	90.3	91.1	87.9	86.5	87.3	83.9	82.4	78.6	80.3	86.4	86.2	137.0
TANC 84. DEG F (302. DEG K)	400	74.3	77.1	79.9	80.12	79.9	79.3	78.0	75.4	77.0	73.9	72.8	71.6	74.1	76.3	76.3	126.9
TWET 69. DEG F (294. DEG K)	500	79.4	82.7	81.8	86.1	86.1	84.2	86.6	84.1	87.9	79.2	82.7	80.4	78.8	80.3	83.1	134.2
HACT 13.65 GM/M3 (0.1365 KG/M3)	630	86.4	86.1	89.2	85.5	88.1	86.2	82.9	87.6	84.2	81.3	79.5	84.3	86.2	79.4	79.4	135.1
NFA 9986. RPM (1046. RAD/SEC)	800	84.2	82.2	83.2	85.3	84.9	84.1	87.1	82.2	84.2	79.4	81.0	83.7	80.2	78.2	78.5	133.3
NFA 9986. RPM (1046. RAD/SEC)	1000	86.5	87.2	85.7	81.6	84.4	81.6	86.8	82.4	82.3	81.5	81.2	78.3	78.5	76.6	74.6	132.3
NFA 9986. RPM (1022. RAD/SEC)	1250	85.6	86.2	86.3	87.2	86.0	84.3	84.7	83.2	81.2	82.1	79.3	78.8	81.1	77.2	79.5	133.3
NFA 9986. RPM (1113. RAD/SEC)	1600	87.6	89.1	87.2	87.1	85.0	83.5	83.1	82.2	80.3	79.6	77.4	77.9	77.7	76.5	76.6	132.5
NFA 9986. RPM (1022. RAD/SEC)	2000	86.7	88.4	86.3	86.2	84.4	84.2	85.3	82.4	80.4	79.8	77.5	78.6	78.6	76.7	78.4	132.7
NFA 9986. RPM (1113. RAD/SEC)	2500	87.2	89.1	86.3	85.0	84.8	84.1	81.8	80.4	80.1	78.2	76.2	77.0	79.0	77.0	77.1	132.1
NFA 9986. RPM (1022. RAD/SEC)	3150	85.2	84.8	84.9	81.2	83.8	82.2	81.0	79.1	78.3	77.4	74.3	76.6	74.9	75.1	74.9	130.3
NFA 9986. RPM (1022. RAD/SEC)	4000	84.4	87.1	85.0	82.8	80.2	78.3	80.0	78.0	77.2	75.0	71.8	75.6	74.0	74.3	73.3	129.5
NFA 9986. RPM (1113. RAD/SEC)	5000	82.6	84.4	82.4	82.1	82.1	81.4	79.2	77.6	74.3	76.2	75.1	76.1	76.0	75.6	74.2	129.9
NFA 9986. RPM (1022. RAD/SEC)	6300	82.5	83.3	81.3	79.6	81.4	77.3	78.2	75.3	75.4	75.7	73.3	73.9	74.1	73.2	79.4	128.5
NFA 9986. RPM (1113. RAD/SEC)	8000	80.2	82.3	79.9	78.4	79.2	76.4	77.1	76.6	75.3	76.2	73.1	77.9	76.3	76.4	75.5	129.0
NFA 9986. RPM (1022. RAD/SEC)	10000	78.3	78.9	75.9	74.9	76.3	73.9	73.6	71.0	71.1	70.3	69.0	69.6	70.2	67.4	69.5	125.3
NO. OF BLADES 44	12500	74.0	74.7	72.1	70.9	71.8	71.3	70.8	68.2	68.9	69.1	66.1	67.9	67.6	66.2	66.1	123.5
16000	71.1	71.8	68.9	67.9	69.6	67.6	68.4	65.7	66.7	69.7	64.7	67.6	66.8	66.1	66.1	64.5	123.0
20000	65.8	66.3	64.4	63.9	65.4	64.7	64.6	61.6	64.7	69.9	62.9	64.3	63.7	67.0	63.5	65.5	124.2
OVERALL MEASURED	97.2	98.9	97.4	96.8	97.2	96.4	96.3	95.1	95.1	93.3	92.0	91.8	93.1	92.2	93.4	94.3	
OVERALL CALCULATED	96.9	95.3	97.6	97.1	97.2	96.3	96.3	94.3	95.2	92.0	91.0	91.4	92.3	91.4	91.6	89.2	144.9
DB(D)	109.6	111.2	109.4	108.5	108.4	107.2	106.9	104.5	104.9	102.9	101.2	102.2	102.4	101.7	101.9	98.4	



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
FRQ. 50	79.2	80.7	77.0	79.2	78.7	77.9	77.5	76.8	78.2	76.8	73.6	73.5	74.0	75.9	75.8	78.8	126.8
65	77.1	79.9	79.2	76.3	82.1	80.0	73.6	72.0	74.2	80.0	71.9	72.9	70.2	76.1	79.3	82.2	127.0
RADIAL 100. FT. (30. M)	80	72.9	74.3	71.9	71.7	72.7	71.6	70.2	67.7	71.7	71.9	69.4	66.5	70.9	71.7	72.5	120.7
VEHICLE ATT	125	69.3	70.2	67.4	84.5	67.3	67.1	67.9	67.2	66.5	67.4	66.2	67.1	69.5	68.6	71.5	118.1
CONFIG T-2	165	80.2	79.9	74.0	71.0	66.7	79.8	82.5	79.9	78.0	79.9	76.8	67.7	80.2	82.3	75.7	129.2
LOC PTD	200	69.4	69.7	67.9	68.1	68.2	69.2	70.7	68.1	68.3	69.3	68.3	66.0	70.3	70.3	68.1	119.3
DATE 7/27/74	250	72.3	73.0	72.3	72.9	71.8	71.3	71.7	69.4	69.1	67.3	66.1	66.9	70.0	70.1	69.0	120.1
RUN 447	315	79.3	78.9	79.3	80.1	81.2	81.3	82.0	81.1	82.3	79.9	76.0	75.9	74.7	78.2	76.3	130.3
TAPE 53145	400	72.3	74.7	75.1	76.1	74.8	75.0	73.5	71.0	73.1	73.0	70.1	70.0	73.1	73.3	70.9	123.5
BAR 28.9 HG	500	81.1	82.7	84.9	88.2	87.8	88.8	85.8	82.9	84.9	87.0	81.7	78.8	86.2	82.0	82.3	135.4
(97692. N/M2)	630	86.6	91.2	92.4	88.6	90.4	90.2	94.9	91.6	89.5	93.5	87.5	90.1	88.7	85.7	86.7	140.9
TAMP 84. DEG F	800	88.2	87.9	87.1	87.3	93.9	93.9	93.1	90.3	91.2	90.0	86.2	83.8	89.4	86.5	85.1	140.4
(332. DEG K)	1000	86.3	85.4	84.4	85.4	87.2	86.3	90.3	86.4	86.4	83.6	80.2	82.9	80.5	78.4	77.6	135.7
TWET 69. DEG K	1250	86.1	87.1	87.9	87.3	88.3	87.1	98.9	86.1	86.5	84.2	83.0	81.1	83.4	81.2	80.5	135.8
(294. DEG K)	1600	89.5	90.3	92.0	91.6	91.2	87.2	90.2	87.4	86.6	84.2	83.5	83.8	83.6	83.3	80.6	137.8
MACT 13.55 G4/M3	2000	90.6	93.1	91.2	89.3	89.1	87.6	88.3	95.4	85.4	82.5	80.6	86.1	81.7	79.7	80.8	136.4
(101365 G5/M3)	2500	90.1	91.0	89.9	90.1	89.2	88.0	97.0	86.1	85.5	83.1	80.0	78.7	81.1	78.2	79.2	136.2
MFL 9880. RPM	3150	89.3	88.8	87.9	86.1	88.2	86.2	85.9	83.1	84.1	80.3	77.3	78.8	78.3	76.4	77.1	134.3
(1034. RAD/SEC)	4000	88.3	91.0	89.0	87.3	85.8	82.0	85.7	83.1	81.2	78.3	75.1	76.6	75.8	75.4	74.1	133.0
MFL 8655. RPM	5000	86.5	88.2	86.1	85.6	86.3	85.2	83.9	81.3	83.3	79.3	78.3	76.2	78.4	75.5	75.2	133.5
(1011. RAD/SEC)	6000	87.4	87.5	85.2	82.4	85.5	81.3	81.3	79.4	78.8	77.6	75.3	75.1	76.2	73.3	75.6	131.7
MFL 10628. RPM	8000	83.6	86.4	82.1	81.6	83.1	80.3	81.2	78.6	77.3	75.2	73.4	76.2	77.2	74.5	74.2	131.1
(1113. RAD/SEC)	10000	81.1	83.0	79.3	78.5	79.3	77.1	76.7	74.3	74.4	72.2	71.0	70.7	71.0	68.3	69.2	128.1
NO. OF BLADES 44	12500	75.4	79.1	76.1	73.9	74.5	74.1	74.5	71.2	72.1	69.9	66.9	67.6	67.1	65.2	66.0	126.0
15000	73.6	74.7	71.9	70.8	72.4	70.0	70.4	67.0	68.0	69.7	64.7	67.4	66.4	64.3	66.0	61.8	125.1
20000	68.9	69.6	66.7	65.9	67.7	66.5	66.4	63.8	65.7	69.5	59.8	62.4	63.8	63.7	64.7	61.8	124.0
OVERALL MEASURED	99.4	100.8	100.2	99.1	99.9	99.0	100.7	97.9	97.1	96.0	94.1	94.7	96.2	94.2	94.7	93.3	148.1
OVERALL CALCULATED	99.3	100.7	100.1	99.1	100.3	99.5	100.5	97.7	97.5	97.6	93.6	93.9	95.2	93.0	93.0	90.6	148.1
PWD	112.3	113.7	112.3	111.0	111.9	110.7	110.8	108.8	108.5	107.0	103.9	103.9	105.4	103.5	103.4	99.8	

PROC. DATE - MONTH 8 DAY 26 HR. 22.9  
MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100. FT. ( 30. M)	50	76.9	80.5	77.7	79.1	78.5	77.7	76.7	76.1	76.8	76.0	74.0	74.4	74.0	75.7	77.9	80.1	126.8
VEHICLE ATT	63	76.3	77.1	78.9	75.3	81.7	80.0	72.7	70.1	73.1	79.0	72.2	71.9	73.0	74.0	76.2	79.0	126.3
CONFIG T=0	80	69.7	72.4	69.8	69.9	70.5	69.9	70.3	68.9	70.6	59.8	68.4	66.5	65.6	68.0	67.6	70.9	119.2
LOC PTD	100	70.0	70.7	78.0	70.12	70.8	68.9	68.6	67.9	68.1	65.9	66.0	67.8	68.9	68.9	67.9	70.1	118.5
DATE 7/27/74	125	71.5	72.3	69.5	70.14	70.0	69.2	68.1	66.3	67.5	66.5	65.3	68.0	69.1	66.5	68.3	70.4	118.2
RUN 448	150	77.0	72.6	69.9	72.12	71.6	76.1	74.8	72.1	71.8	67.0	67.7	72.5	74.0	74.1	74.7	72.7	122.8
TAPE 53145	200	69.3	70.0	69.1	67.19	68.1	67.9	67.9	66.3	69.1	65.0	63.2	63.9	65.9	66.3	66.2	66.2	117.0
HAP 28.9 MS ( 97692. N/M2)	250	76.0	78.0	75.1	74.11	72.9	72.0	71.7	70.1	74.4	67.0	67.0	67.0	68.0	69.5	68.4	67.9	121.2
TAMP 34. DEG F ( 302. DEG K)	315	77.0	77.8	77.9	78.11	76.0	74.0	77.9	75.0	76.3	70.3	71.0	73.7	74.0	75.1	69.5	69.0	125.0
TWET 60. DEG F ( 294. DEG K)	401	73.0	75.9	75.1	77.10	76.7	76.3	72.7	71.1	71.1	72.0	69.6	74.7	77.1	70.1	70.5	69.2	124.0
MAG 13.55 GM/MS ( 0.1365 KG/MS)	500	74.8	79.6	76.8	81.12	82.9	84.1	80.5	80.8	81.9	81.1	78.8	82.8	84.0	74.9	79.2	76.0	131.6
NFA 9204. RPM ( 964. RAD/SEC)	630	85.6	84.2	84.1	85.5	92.0	96.4	94.3	96.4	97.3	94.2	93.5	93.2	89.3	88.5	93.0	88.4	144.1
NFK 8994. RPM ( 942. RAD/SEC)	800	96.1	93.0	89.3	92.14	97.9	95.1	101.8	99.1	99.2	92.1	96.0	101.1	100.3	88.5	97.6	96.3	148.4
NF 10679. MPH ( 1113. RAD/SEC)	1000	93.6	93.2	91.5	95.4	99.3	100.2	99.3	96.3	96.6	93.6	94.5	94.2	94.0	90.7	85.5	85.2	146.3
NO. OF BLADES 44	1250	94.4	98.8	103.3	100.14	99.1	99.0	99.8	97.2	98.4	95.3	93.3	95.0	90.0	90.3	84.4	89.3	147.5
OVERALL MEASURED	1500	98.5	100.1	101.1	99.5	99.2	96.4	99.2	97.6	98.3	94.4	91.1	93.9	91.4	87.3	89.4	86.2	146.9
OVERALL CALCULATED	2000	99.3	100.1	100.1	97.5	100.4	98.6	98.0	95.6	93.7	92.5	90.0	90.1	87.3	87.4	86.9	83.2	146.0
PWD	2500	96.3	100.8	99.9	97.3	97.0	96.1	96.0	93.1	93.2	91.4	87.0	85.7	86.0	83.1	84.5	81.1	144.4
	3000	97.0	98.8	99.0	96.4	92.6	93.2	95.7	93.1	91.4	87.0	84.1	84.7	83.1	80.3	78.5	79.2	143.0
	3500	95.5	97.2	95.1	95.3	97.3	96.2	94.9	92.6	93.3	90.5	87.3	84.1	85.1	81.6	79.5	77.1	143.7
	4000	95.7	95.3	94.6	92.3	95.4	92.5	93.0	89.7	89.5	87.6	83.4	81.0	81.6	77.7	79.8	76.5	141.6
	4500	92.3	94.3	92.4	91.3	92.0	91.5	91.0	89.6	87.6	84.1	81.4	79.7	79.0	76.6	75.2	73.1	140.3
	5000	91.4	91.2	90.1	88.14	90.9	89.4	88.9	85.4	85.4	82.3	79.3	76.7	76.1	72.4	73.2	71.9	138.8
	5500	87.2	88.1	85.9	85.3	86.0	86.1	85.9	82.9	82.4	79.9	76.1	73.9	72.0	69.0	68.3	67.9	136.5
	6000	83.6	84.5	82.6	80.9	83.6	81.9	81.3	79.0	77.8	75.9	71.6	70.3	69.0	65.0	65.9	64.8	134.7
	6500	78.8	79.3	77.7	76.5	78.4	76.8	76.3	76.8	73.9	73.9	67.5	68.5	68.7	62.7	63.9	65.7	133.1
	7000	106.2	108.1	109.1	107.1	107.8	108.0	107.7	106.1	106.1	103.0	102.3	103.7	102.0	98.2	100.5	99.2	
	7500	107.2	108.6	109.1	107.2	107.4	107.9	108.5	106.2	106.5	103.0	102.0	104.2	103.0	97.6	100.5	98.6	156.3
	8000	120.0	121.3	120.9	119.0	120.5	120.4	119.6	118.9	116.9	113.9	111.5	112.9	112.2	108.1	109.3	107.7	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.17)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
50	78.0	80.8	76.9	79.2	78.6	78.0	77.7	77.1	78.1	76.6	73.9	73.7	75.8	75.9	74.9	77.7	126.6	
60	76.3	75.8	78.8	75.3	81.9	80.3	73.2	72.4	73.4	79.1	73.3	73.9	76.8	75.1	73.1	76.3	126.6	
RADIAL 100. FT. (30. M)	80	72.7	75.6	71.9	72.0	72.5	70.9	71.2	68.9	72.7	71.7	69.5	66.3	67.5	70.9	71.0	72.4	120.8
VEHICLE ATT CO:FIG 1-0	100	72.0	72.8	71.8	71.1	71.0	69.1	68.8	66.9	67.0	66.8	68.2	68.7	69.2	69.2	69.0	70.8	119.0
LOC PTD	120	70.5	70.7	69.0	70.6	68.4	67.1	67.1	66.4	68.2	67.3	66.1	66.9	69.0	68.2	69.3	72.0	118.2
DATE 7/27/74	160	77.8	75.8	67.6	73.0	67.7	77.1	72.5	74.0	73.8	67.4	78.1	73.8	75.7	80.2	75.9	74.1	125.3
RUN 449	200	69.0	69.8	67.9	68.1	68.2	67.9	66.9	66.3	66.7	66.1	66.0	65.7	67.9	68.4	67.4	67.3	117.2
TAPE 53145	250	75.4	74.9	73.9	73.4	72.9	72.3	71.9	69.0	69.4	68.1	66.2	67.6	69.0	69.5	70.0	69.0	120.5
BAR 28.9 HG	312	79.4	79.2	77.1	81.1	87.0	86.0	83.9	82.3	83.3	81.5	77.2	77.9	80.0	79.5	80.2	74.8	132.3
(97675. N/M2)	400	73.0	76.0	78.0	75.9	76.0	78.3	75.7	76.0	77.0	75.2	73.8	73.8	77.2	72.3	72.4	70.2	125.8
TAMP 84. DEG F	500	78.8	85.9	90.0	83.7	85.9	91.9	87.2	89.9	90.1	88.0	87.1	86.5	89.9	79.0	78.0	77.8	138.2
(392. DEG K)	630	85.3	89.1	91.4	83.1	94.0	95.6	96.2	96.4	99.5	97.7	92.1	93.1	92.4	83.4	80.3	79.2	145.1
TWET 69. DEG F	800	94.2	85.0	95.0	100.0	91.0	99.0	100.8	93.1	93.2	96.3	91.0	89.6	97.0	95.4	85.1	81.1	146.2
(294. DEG K)	1000	91.4	89.1	89.2	89.5	93.0	93.3	99.8	97.6	97.7	95.5	92.3	87.9	94.5	90.3	89.7	83.5	145.2
NFA 9648. RPM	1250	91.2	92.1	94.3	95.3	91.2	93.1	94.8	91.4	92.1	88.2	87.0	84.7	88.3	82.5	81.2	80.1	141.3
(1010. RAD/SEC)	1600	98.3	98.2	98.3	98.3	91.3	92.4	95.1	91.2	90.3	89.6	86.3	84.8	86.3	84.3	82.3	80.1	142.4
MAGT 13.65 GM/M3	2000	101.4	98.4	98.2	94.2	91.5	90.4	93.2	90.4	89.4	87.5	85.2	82.2	84.3	81.6	81.0	77.3	141.0
(1.01365 KG/M3)	2500	96.4	98.9	98.0	95.3	91.9	91.1	91.1	87.4	88.3	85.1	84.0	81.7	84.0	82.5	81.4	78.2	140.6
NFA 9648. RPM	3150	95.3	95.8	95.1	89.9	94.1	92.2	90.5	89.4	88.1	86.0	82.2	82.8	82.0	79.1	79.1	75.1	139.9
(1010. RAD/SEC)	4000	96.0	97.0	95.9	93.0	88.2	87.3	90.4	88.1	86.1	83.3	80.0	80.9	79.3	77.4	74.9	74.8	138.9
NFA 9423. RPM	5000	94.2	95.0	93.0	91.2	91.3	90.3	88.1	86.3	86.3	84.2	82.2	79.2	81.2	78.4	76.6	72.1	138.6
(987. RAD/SEC)	6300	94.3	92.4	91.5	88.4	89.5	86.3	86.9	84.3	84.3	81.7	78.3	76.8	77.6	74.7	76.6	72.5	136.5
NFA 10623. RPM	8000	91.2	91.4	89.1	87.3	87.3	89.4	86.2	83.6	82.5	80.3	76.2	76.8	76.1	73.4	73.2	70.5	135.7
(1113. RAD/SEC)	10000	89.5	88.9	86.1	83.2	84.9	83.0	82.9	80.1	79.4	77.3	74.9	72.7	72.0	69.5	70.5	67.0	133.5
NO. OF BLADES 44	12500	86.1	84.7	83.0	80.3	80.0	80.1	79.8	76.3	76.4	74.1	70.0	69.8	69.1	67.0	66.4	63.9	131.2
15000	82.5	81.8	78.9	77.0	76.8	75.7	75.6	72.5	73.8	72.1	66.7	67.4	66.7	63.8	65.1	61.9	129.7	
20000	78.6	77.3	74.8	73.5	71.5	71.8	71.2	69.5	71.6	73.0	62.7	65.2	63.4	62.6	62.9	60.4	129.1	
OVERALL MEASURED	106.1	105.9	105.4	103.4	102.3	104.1	103.8	103.1	104.1	102.2	100.0	97.8	101.3	98.0	95.2	95.0	153.2	
OVERALL CALCULATED	106.4	106.2	106.1	105.3	102.8	104.2	104.0	103.1	104.0	102.7	99.4	97.5	101.1	97.9	94.0	90.8	153.2	
PWDB	119.5	119.4	118.9	116.6	116.0	115.3	115.2	113.2	113.1	111.3	108.3	107.1	109.7	107.1	104.6	101.7		

MODEL SOUND PRESSURE LEVELS (59, DEG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (10.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	79.7	79.8	77.9	77.7	77.7	76.6	77.5	76.6	75.6	73.8	73.8	72.8	75.4	76.0	77.5	79.9	126.2
60	75.7	75.1	76.3	72.7	82.2	79.0	71.6	70.2	72.0	70.8	71.2	70.7	70.7	72.2	72.8	76.3	124.6
RADIAL 100. FT.	80	72.3	72.7	70.8	71.4	70.6	71.4	70.5	71.5	70.4	70.7	67.5	67.4	69.8	69.4	71.6	120.3
(30. M)	100	71.4	70.7	70.9	69.17	70.9	68.6	68.5	67.8	66.9	66.7	65.7	67.7	66.6	69.9	68.6	118.5
VEHICLE ATT	120	71.9	71.1	68.4	69.3	69.2	68.1	67.3	66.1	66.1	65.1	66.8	69.3	67.4	69.0	70.2	118.1
CONFIG T-3	160	76.6	75.6	67.9	70.6	73.1	73.9	69.7	73.1	64.7	68.1	64.9	71.5	72.6	74.2	74.7	121.6
LOC PTD	200	71.9	71.1	71.2	69.17	69.1	68.7	65.9	64.9	63.1	63.9	63.7	66.1	66.4	65.1	66.2	117.0
DATE 07/29/74	250	77.8	77.0	77.0	79.17	75.9	73.9	73.2	70.9	69.2	66.1	66.3	67.8	68.1	69.3	68.8	121.8
RUN 455	315	79.0	79.1	81.3	80.0	79.1	76.3	75.0	74.2	72.2	71.5	71.1	76.8	75.0	75.5	72.3	125.0
TAPE 4951	400	75.8	75.1	76.0	77.8	81.0	79.0	73.9	74.7	69.9	73.7	71.8	74.4	73.4	73.2	70.9	125.4
BAR 25.7 HG	500	77.6	75.7	78.1	80.4	87.0	84.8	80.6	81.0	79.7	79.8	78.9	79.7	75.6	77.4	75.9	131.0
(97051. N/M2)	630	83.2	81.5	83.2	86.0	90.2	94.4	93.1	90.2	93.2	90.2	90.2	89.0	86.3	84.5	86.1	140.6
TAMP 72. DEG F	000	94.8	90.0	89.0	95.9	98.3	96.3	101.9	97.3	96.4	91.9	94.9	94.9	94.1	88.4	89.9	146.5
(294. DEG K)	1000	92.8	89.4	88.3	93.1	97.6	101.6	101.9	97.3	96.4	96.1	91.4	96.0	95.3	92.7	96.0	147.4
TWET 57. DEG F	1250	95.9	99.0	105.1	103.6	102.4	101.0	97.0	94.0	95.9	95.2	92.2	94.9	88.0	86.4	83.9	148.2
(288. DEG K)	1000	101.3	99.3	100.1	98.1	98.0	97.3	92.9	92.2	93.3	92.9	90.1	90.9	87.0	86.7	88.9	144.7
HACT 9.11 34/43	2000	101.1	97.2	101.2	95.0	98.2	97.3	94.7	90.6	96.6	94.1	92.4	91.0	88.1	89.5	87.4	145.6
(.00911 KC/43)	2500	95.0	96.0	100.0	95.9	98.0	95.9	98.1	94.1	91.2	88.8	89.9	84.9	87.7	83.3	82.9	144.0
NFA 90H1. RPM	3150	94.3	99.2	97.4	95.0	95.6	96.6	100.1	96.3	93.2	89.1	86.5	84.9	86.1	81.9	82.2	145.0
(951. RAD/SEC)	4000	96.9	97.3	97.3	96.3	95.3	98.1	96.0	92.0	91.2	86.3	83.4	83.7	85.0	81.4	78.4	143.7
NFA 8969. RPM	5000	94.2	98.4	95.6	92.13	95.4	96.5	95.5	91.4	91.5	89.2	86.3	83.4	83.3	79.7	80.3	143.0
(939. RAD/SEC)	6300	93.3	93.6	94.8	92.6	93.6	92.7	91.5	88.6	88.0	85.6	83.1	80.7	81.5	76.9	77.7	140.6
NFA 10626. RPM	8000	90.8	95.0	93.0	89.6	92.7	92.0	93.5	89.9	87.8	82.7	82.1	79.4	78.6	75.9	74.7	140.9
(1113. RAD/SEC)	10000	89.8	90.7	90.0	87.7	89.0	89.0	88.8	84.9	83.6	81.6	79.1	75.4	74.6	71.9	71.2	138.0
N. OF BLADES 44	12000	85.2	86.9	86.1	84.6	86.0	86.1	85.9	83.3	80.1	77.4	75.1	71.7	71.0	67.4	66.0	136.2
	16000	81.4	84.5	82.3	81.4	82.6	82.4	79.7	77.4	73.2	70.4	70.1	68.8	65.7	65.7	63.4	134.6
	20000	77.7	79.0	76.3	76.9	79.0	78.9	77.9	75.0	74.0	69.0	66.9	66.6	67.6	64.4	66.0	133.4
OVERALL MEASURED		106.7	106.9	109.2	107.0	108.3	108.2	109.7	105.0	104.2	102.0	100.1	101.7	100.3	97.3	98.4	
OVERALL CALCULATED		107.3	107.5	109.5	107.6	108.2	108.4	108.6	105.2	104.9	102.6	100.8	101.6	100.1	97.4	98.3	155.9
PAD		119.7	120.4	120.9	118.7	119.4	120.3	120.7	117.7	116.2	113.7	111.8	111.2	109.6	108.6	107.4	

REPRODUCIBILITY OF THE ORIGINAL PAPER IS POOR

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.74)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
FREQ.	50	79.6	79.6	76.9	78.6	78.5	77.5	77.3	76.6	75.8	74.5	74.7	73.1	75.6	76.6	75.8	78.6	126.3
RADIAL 100. FT.	63	75.6	78.8	77.1	75.9	83.1	78.9	75.9	72.1	72.0	72.0	73.2	70.8	74.0	74.9	76.0	79.1	126.1
(30. M)	80	73.2	74.4	71.9	71.4	72.4	70.7	71.2	68.6	72.0	70.6	70.8	66.4	67.6	70.4	73.7	72.6	120.6
VEHICLE ATT	100	73.5	72.7	71.7	70.7	69.7	69.0	69.4	66.9	65.6	65.6	68.7	68.2	69.7	67.9	67.6	71.7	118.6
CONFIC T=0	120	70.9	70.1	68.4	69.2	68.1	67.3	67.6	67.3	67.2	66.2	66.6	66.6	66.0	67.3	66.3	71.2	117.7
LOC PTD	160	82.8	75.0	71.2	67.6	75.9	73.6	75.5	75.0	75.0	67.3	73.4	75.7	75.9	73.0	73.0	73.6	125.2
DATE 07/29/74	200	70.2	69.0	67.9	67.7	68.9	68.1	67.6	66.1	65.9	63.9	65.1	65.8	67.0	68.0	65.9	67.7	116.9
RUN 457	250	73.6	73.2	73.0	72.8	73.1	72.2	71.7	69.3	68.1	67.1	67.2	67.7	69.1	69.1	69.1	69.1	120.1
TAPF A951	310	79.1	76.6	75.2	76.9	83.2	82.3	80.9	80.1	77.4	79.3	74.4	77.1	76.0	73.3	75.1	73.2	129.0
BAR 28.7 HG	400	71.7	73.8	77.6	77.7	77.1	82.3	78.6	78.9	73.9	73.9	75.8	76.6	73.7	76.1	75.7	74.6	127.3
(97051. N/M2)	500	74.8	80.9	89.0	88.7	87.9	95.0	90.9	91.7	85.8	86.8	88.3	89.8	79.0	88.7	86.6	86.9	139.6
TANR 72. DEG F	600	80.9	81.9	87.4	82.2	92.0	94.2	94.1	96.2	95.4	93.1	88.4	86.8	95.0	83.2	77.2	76.2	142.7
(200. DEG K)	1000	89.9	87.0	90.2	83.8	89.3	96.1	99.1	94.3	94.3	92.9	89.4	94.0	95.1	89.9	82.3	87.2	144.2
TWET 59. DEG F	1250	92.4	89.4	85.1	89.3	93.1	91.4	96.9	94.3	94.1	91.1	89.3	87.9	89.1	84.3	87.2	82.3	142.2
(288. DEG K)	1000	92.8	94.4	96.2	97.0	91.0	90.4	91.2	88.3	86.0	84.2	87.1	81.6	84.0	82.9	83.3	78.1	138.9
HATT 9.11 GM/MS	2000	101.0	99.1	96.3	91.0	90.2	89.5	99.0	88.2	86.1	84.3	83.1	81.0	84.0	82.4	80.3	79.3	139.8
(.60011 AS/MS)	3000	94.8	95.1	94.0	90.8	92.0	88.9	90.7	89.1	86.8	85.2	82.9	80.8	82.7	79.8	80.9	76.9	138.7
MFA 9530. RPM	3150	91.3	92.6	95.3	91.0	89.5	89.3	89.4	87.6	86.1	83.3	82.3	81.1	81.3	77.2	77.4	74.0	138.1
(998. RAD/SEC)	4000	95.9	93.4	92.9	93.0	90.3	87.0	87.0	85.1	84.2	79.1	78.3	77.9	79.9	77.1	75.2	73.0	137.2
NFK 9413. RPM	5000	90.3	94.3	90.5	88.3	91.5	88.4	88.6	85.3	84.2	82.2	81.6	78.1	77.1	75.6	75.5	72.2	137.2
(986. RAD/SEC)	6000	89.4	89.9	89.0	87.7	86.6	84.4	84.5	81.5	80.7	78.6	76.9	76.3	77.7	73.4	75.5	70.6	134.2
NFD10628. RPM	8000	87.4	90.1	86.9	84.4	86.0	83.9	84.3	80.8	79.8	76.4	76.0	74.6	74.8	71.9	71.6	68.7	133.7
(1113. RAD/SEC)	10000	84.6	86.5	84.7	81.8	83.1	81.6	80.4	77.6	75.9	74.7	73.0	71.4	70.4	68.8	68.5	65.7	131.5
NO. OF BLADES 44	12000	81.1	82.2	80.2	78.1	79.5	77.3	78.1	74.9	73.0	71.9	71.4	69.0	69.0	65.3	65.3	62.9	129.3
	15000	77.6	79.6	77.4	75.4	76.5	74.5	74.1	71.3	71.6	70.3	69.7	69.4	69.0	66.6	66.5	65.2	128.6
	20000	74.6	75.7	74.2	71.7	76.3	71.8	72.9	69.5	72.1	71.0	70.9	69.7	70.0	68.9	66.0	66.9	130.4
OVERALL MEASURED	104.8	104.2	103.4	102.8	102.0	103.0	103.6	101.9	101.0	99.0	97.1	97.7	99.0	94.8	94.2	94.6		151.2
OVERALL CALCULATED	104.7	104.3	103.6	102.6	102.1	102.8	103.9	102.0	100.9	98.9	96.9	97.6	99.0	95.2	93.4	92.7		
PWDR	118.1	117.4	116.8	115.0	114.4	113.5	113.8	112.0	110.3	108.2	107.0	106.7	107.0	104.4	104.8	101.6		

PAGE 1

## FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

PROC. DATE - MONTH 8 DAY 26 HR. 23.0

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	78.8	80.0	76.7	78.8	78.9	77.9	77.4	77.6	77.0	75.5	74.7	73.1	76.5	77.2	76.7	77.7	126.8
63	79.0	80.2	78.0	79.8	82.3	79.3	73.4	70.1	72.2	71.1	73.0	72.6	76.0	77.4	75.0	79.2	126.2
RADIAL 100. FT.	73.2	74.7	71.0	71.3	72.5	70.7	89.3	68.9	71.5	71.3	70.6	67.4	68.5	70.8	70.6	71.3	120.5
( 30. M)	72.6	71.6	71.0	69.5	68.8	67.9	67.3	65.8	65.8	66.6	68.1	67.7	67.7	68.0	68.1	70.5	117.9
VEHICLE ATT	125	69.3	68.1	67.4	67.2	67.1	67.6	66.7	65.4	65.3	66.1	66.3	66.0	69.2	68.2	70.3	70.3
CONFIG T=0	160	81.9	78.1	76.0	68.7	78.1	79.0	75.5	66.7	75.6	71.7	75.2	70.7	81.1	82.0	78.4	74.8
LOC PTD	200	68.9	69.0	68.2	66.9	68.9	68.0	67.8	65.9	66.1	65.1	66.0	65.9	69.0	69.0	68.3	67.8
DATE 07/29/74	250	71.7	72.0	72.1	72.8	73.6	72.0	72.0	69.9	69.0	67.2	67.1	67.6	69.2	70.0	69.6	69.1
RUN 458	315	79.3	80.3	80.4	82.0	87.2	86.6	85.8	85.1	85.2	78.1	75.5	80.4	82.3	81.5	77.2	133.3
TARE	400	70.6	74.0	75.9	75.6	76.9	74.8	73.4	74.7	72.9	78.7	66.8	71.7	75.2	72.8	73.0	70.7
BAR 28.8 HG	500	78.9	81.7	86.0	88.6	89.1	85.8	83.9	87.9	84.1	82.6	74.8	83.6	88.1	78.8	81.4	78.9
(97084. N/M2)	630	82.4	90.1	89.6	83.2	86.2	88.1	92.0	88.3	89.5	86.2	84.6	86.8	89.6	86.3	88.7	86.3
TARE 69. DEG F	800	79.1	83.0	82.1	82.1	88.2	91.9	92.0	86.0	88.3	82.1	85.1	81.9	85.5	85.3	81.5	76.8
(294. DEG K)	1000	84.0	88.1	85.2	86.9	88.1	88.1	90.8	86.1	86.3	82.1	84.5	80.6	85.6	77.5	78.7	75.2
TARE 58. DEG F	1250	84.7	88.2	85.3	87.0	87.9	88.9	88.8	84.2	81.1	81.9	81.1	79.8	82.4	79.6	78.5	74.9
(288. DEG K)	1500	88.9	89.3	88.2	91.9	91.0	86.0	84.1	84.3	81.1	79.1	79.2	77.8	78.6	78.2	76.2	73.0
FACT 9.24 G/M3	2000	90.3	98.4	90.3	87.3	86.2	87.1	84.9	82.4	81.3	79.2	78.5	78.8	80.7	79.3	79.5	74.6
(100924 K/M3)	2500	85.9	88.2	88.2	87.8	87.1	85.1	84.6	82.1	82.0	79.9	78.0	77.5	79.4	77.2	78.1	73.6
NFA 3771. RPM	3150	85.0	86.5	87.3	85.3	85.2	83.3	83.2	81.4	80.4	78.5	76.3	77.1	76.8	74.2	75.6	71.0
(1023. RAD/SEC)	4000	87.8	87.2	87.1	86.1	85.0	83.3	82.3	79.3	79.2	74.9	74.2	75.8	77.3	75.0	74.3	72.1
NFA 9678. RPM	5000	83.1	88.6	85.6	81.4	85.6	83.6	83.3	80.6	86.8	77.5	76.5	76.2	74.4	73.3	74.7	70.1
(11013. RAD/SEC)	6300	82.4	83.8	84.6	82.7	81.7	79.6	79.4	76.7	75.6	75.4	73.9	76.1	75.8	72.7	75.5	68.6
NFA 10628. RPM	8000	80.7	83.6	81.7	78.7	80.6	79.7	80.6	76.4	75.7	73.3	73.8	76.2	74.8	71.6	74.0	68.4
(11113. RAD/SEC)	10000	77.3	79.9	77.9	75.5	76.8	74.8	74.3	72.4	70.9	70.7	68.9	69.2	68.8	66.9	67.6	64.4
NO. OF BLADES 44	10500	73.6	75.5	74.0	72.0	73.1	72.0	71.7	69.8	69.3	67.1	66.2	66.5	67.1	63.9	65.0	61.0
16000	70.1	72.2	70.9	69.0	71.2	69.3	69.9	67.1	67.1	66.0	64.2	64.2	66.1	67.4	63.5	65.3	62.2
20000	66.2	67.4	66.9	65.6	67.6	65.7	65.6	63.5	63.5	65.5	64.5	62.9	64.4	63.4	63.8	64.9	62.2
OVERALL MEASURED	97.6	96.9	96.2	97.7	99.2	98.4	98.7	96.3	96.1	92.6	93.1	92.9	95.7	93.3	94.2	93.0	125.7
OVERALL CALCULATED	97.1	99.8	98.4	98.0	98.5	98.5	98.7	96.1	95.7	92.4	92.1	92.2	95.7	92.6	92.8	90.2	123.9
PWDH	110.2	111.7	110.6	110.1	110.4	109.1	108.6	106.4	105.6	103.4	102.3	102.5	104.3	102.1	102.8	99.7	146.4

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	78.6	79.8	77.8	78.3	78.9	77.8	78.4	77.5	76.7	75.5	74.6	74.2	76.2	77.3	76.5	77.7	126.8
63	76.9	77.8	76.9	74.9	82.8	79.1	72.6	71.8	72.0	71.1	73.1	71.9	72.7	75.9	75.7	77.7	125.7
RADIAL 100. FT. (30. M)	91	72.6	74.4	71.8	71.3	71.5	73.4	69.6	66.4	70.7	59.7	69.8	58.4	66.4	69.5	69.7	119.7
VEHICLE ATT	122	69.9	70.3	66.1	68.4	68.1	66.4	69.1	66.1	67.1	65.3	65.2	55.9	66.2	67.3	69.3	118.4
CONFIG T-3	165	80.8	78.8	71.2	67.9	76.6	74.7	69.6	75.0	73.8	65.0	72.5	71.4	75.2	78.0	74.6	123.9
LOC PTD	209	69.0	69.2	69.0	66.9	68.9	67.0	67.0	66.1	65.9	63.8	64.0	64.6	66.7	67.2	66.1	116.5
DATE 07/29/74	259	73.6	74.1	74.0	72.8	73.8	71.9	71.7	69.9	68.2	66.8	67.2	67.5	68.7	68.9	69.0	120.3
HUM 45%	315	79.9	77.3	75.3	77.9	85.3	64.1	83.2	82.4	79.4	79.3	78.6	78.3	77.4	76.3	77.2	130.7
TAPP A951	400	71.5	74.0	77.0	76.5	74.0	77.1	78.7	76.9	77.0	71.7	75.9	76.4	75.6	71.9	73.9	126.0
BAR 28.8 HG (9784. N/H2)	500	76.7	79.6	86.1	86.9	81.0	88.1	90.8	88.1	88.9	82.9	87.9	87.7	84.8	78.0	83.9	137.1
TAMR 59. DEG F (294. DEG K)	630	83.1	84.2	83.9	82.8	94.2	96.2	99.3	96.2	97.2	95.5	93.2	90.8	92.0	85.4	77.1	144.7
TWET 58. DEG F (288. DEG K)	1000	91.0	82.0	93.3	92.8	93.1	96.9	101.0	97.0	91.0	93.0	93.0	88.7	95.9	96.0	84.9	145.3
HACT 9.24 GW/43 (100924 KG/43)	2000	88.3	70.3	89.3	90.2	93.3	94.2	93.0	96.1	96.3	93.1	93.2	89.9	92.3	89.2	88.2	144.0
NFA 9464. RPM (991. RAD/SEC)	3150	86.6	94.2	94.0	94.2	90.3	91.2	94.1	90.2	89.1	86.9	83.3	83.6	88.9	80.8	81.0	140.1
NFK 9374. RPM (981. RAD/SEC)	4000	94.8	97.0	96.1	97.8	91.5	90.4	93.9	90.1	88.2	87.2	83.1	82.0	85.0	82.2	81.1	141.0
NFR10628. RPM (1113. RAD/SEC)	5000	101.3	98.6	96.2	95.1	92.2	92.6	93.1	91.1	87.3	84.2	86.3	80.9	85.8	85.2	83.3	141.0
NO. OF BLADES 44	16000	91.9	96.0	97.3	92.6	91.3	91.9	92.0	89.0	86.0	85.1	82.9	82.4	82.0	92.9	92.1	139.9
OVERALL MEASURED	20000	92.0	97.3	94.5	93.2	93.3	90.3	90.3	88.3	86.4	83.5	80.2	82.1	82.3	77.6	77.3	139.5
OVERALL CALCULATED	104.8	105.9	104.1	103.7	103.2	104.0	105.6	102.9	102.0	100.0	99.2	96.9	100.0	98.3	94.9	93.3	138.3
PWD	104.8	105.6	104.7	103.8	103.0	103.6	106.2	103.1	102.0	100.2	99.3	96.6	99.0	98.1	93.7	91.4	138.8
	116.2	118.7	117.8	115.9	115.7	114.7	113.6	112.3	111.2	109.1	108.0	106.5	108.7	107.1	104.6	101.3	136.1
																	135.1
																	132.4
																	130.4
																	128.9
																	129.3
																	152.5

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
50	79.4	79.8	77.0	78.5	79.1	77.8	78.4	76.8	75.9	75.5	74.9	73.2	75.4	75.6	75.8	76.7	126.4	
63	77.7	78.9	77.0	75.9	83.2	79.2	73.8	69.8	72.0	71.8	73.2	71.6	72.7	75.9	74.9	77.9	125.9	
RADIAL 100. FT. (30. K)	80	73.1	74.3	71.8	71.4	72.6	70.7	70.6	68.7	70.5	70.7	69.8	66.4	67.4	70.8	69.7	70.6	120.1
VEHICLE ATT	100	72.4	72.0	71.8	70.5	69.1	68.7	69.4	65.8	65.9	65.8	67.8	68.4	68.8	68.1	68.6	69.8	118.4
CONFIG T=0	125	69.8	69.1	67.2	68.10	67.2	67.3	68.1	66.2	66.4	65.3	65.2	65.8	68.3	67.5	69.3	70.2	117.2
LOC PTD	160	81.8	78.1	69.9	68.16	76.1	79.0	75.9	72.7	75.0	66.8	74.1	71.5	74.9	76.0	74.9	73.9	124.9
DATE 07/29/74	200	68.6	68.9	68.3	67.10	68.9	67.9	67.8	65.9	65.1	63.9	65.0	64.9	67.0	67.3	67.1	66.7	116.7
HUM 460	250	73.5	73.0	73.0	71.7	72.1	70.9	71.7	69.1	67.9	67.1	67.2	67.6	69.0	70.0	68.8	69.0	119.8
TYPE A951	315	78.0	74.4	75.9	77.5	80.3	79.2	75.0	75.2	76.3	77.4	77.5	76.2	74.0	72.2	74.0	73.1	126.7
BAR 28.8 HG (97884. N/H2)	400	70.7	72.9	77.2	75.8	79.1	82.8	77.8	76.7	71.8	74.7	73.6	73.5	75.6	75.9	74.0	73.5	126.9
TAMP 69 DEG F	500	74.2	82.0	87.1	86.8	92.0	96.0	90.7	89.9	82.7	88.6	86.2	85.7	87.8	89.1	85.9	89.6	139.7
(293. DEG K)	630	86.9	87.2	87.5	84.0	88.5	93.2	91.0	97.3	93.2	99.1	83.2	91.1	95.1	83.6	78.2	80.4	141.9
THET 58. DEG F	800	84.8	84.0	86.2	94.1	93.0	97.1	96.9	94.3	96.2	92.9	90.4	89.1	89.0	91.8	81.9	88.8	143.5
(287. DEG K)	1000	89.7	85.2	84.3	88.1	91.5	91.2	94.1	92.0	92.1	89.1	89.3	86.0	84.0	79.6	81.1	76.9	149.0
HAC7 9.03 GM/MS (.00903 KG/MS)	1250	84.9	86.0	89.1	90.9	92.1	91.2	89.0	85.0	82.9	85.1	83.0	82.0	84.9	80.4	79.9	78.3	137.3
NFA 9569. RPM (1002. RAD/SEC)	1600	91.6	92.0	95.1	93.8	90.3	85.0	90.9	86.1	84.9	85.2	83.3	81.9	82.0	79.5	82.1	75.9	138.3
NEW 9453. RPM (99.1. RAD/SEC)	2000	99.7	97.0	94.3	91.0	90.5	91.1	86.2	89.4	84.4	84.3	83.4	82.0	83.3	81.1	80.0	76.2	138.5
AFB 10628. RPM (1113. RAD/SEC)	2500	91.5	93.8	93.2	89.9	88.9	89.3	90.7	87.0	85.0	85.0	83.0	82.0	81.1	78.3	79.6	75.9	137.7
NO. OF BLADES 44	3150	88.0	91.2	93.9	88.9	88.5	88.4	88.2	86.1	85.4	82.3	81.4	81.1	79.6	76.6	77.1	73.0	136.8
OVERALL MEASURED	4000	90.5	92.2	91.3	89.8	89.3	87.1	86.0	83.7	82.9	79.1	78.1	78.1	80.4	76.4	74.8	73.1	135.9
OVERALL CALCULATED	5000	87.9	92.5	89.7	86.2	90.3	86.3	87.0	83.4	84.4	81.3	79.5	77.3	76.4	74.3	75.2	71.4	135.8
PRDH	6300	87.1	87.6	87.9	85.4	84.9	83.5	83.3	80.6	79.5	77.6	76.7	75.1	76.4	72.8	75.2	69.6	132.8
	8000	84.6	87.8	85.0	82.6	83.9	82.7	84.6	79.6	78.8	75.4	74.6	74.3	73.7	71.6	71.5	68.4	132.4
	10000	81.5	83.8	81.8	79.9	80.9	79.5	79.4	75.5	74.5	73.4	70.9	70.2	69.4	66.9	66.5	64.5	129.5
	15000	78.7	80.6	78.0	76.0	76.3	76.2	76.9	73.0	72.1	70.1	68.9	67.7	68.1	64.0	69.0	62.0	127.5
	20000	73.9	77.2	74.2	72.0	73.4	73.2	74.0	70.1	71.4	67.1	65.3	66.9	67.3	64.5	66.1	62.3	126.8
		69.6	71.5	69.8	67.3	68.9	69.9	72.6	68.4	72.5	65.6	63.9	65.6	64.4	63.8	64.7	63.5	127.3
		102.4	101.8	102.2	100.7	100.9	101.8	101.8	101.3	99.9	97.8	96.1	95.8	98.0	95.2	93.9	94.2	150.2
		102.6	102.4	102.2	101.1	101.2	102.8	102.1	101.5	100.2	97.9	96.0	96.0	96.0	95.0	91.9	92.5	150.2
		116.2	115.6	115.3	112.9	113.2	112.8	112.9	110.7	109.3	107.8	106.2	105.6	107.2	104.2	103.1	101.7	



MODEL SOUND PRESSURE LEVELS (59. DEG. F; 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
		(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	77.4	81.6	84.9	87.8	89.8	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	127.7
	60	83.0	84.9	84.1	82.7	85.3	88.4	78.8	73.8	78.9	77.9	79.3	80.7	75.8	74.2	77.0	78.8	129.8
RADIAL 100. FT.	80	72.3	74.7	73.5	72.5	72.8	70.4	70.5	69.7	72.4	71.4	71.5	69.4	68.3	70.5	71.4	71.6	121.1
( 30. M)	100	68.4	69.8	69.8	68.7	67.1	67.0	66.7	66.6	65.9	65.9	67.7	67.6	68.4	67.7	68.6	70.5	117.6
VEHICLE ATT	120	67.0	66.2	66.4	67.2	67.5	67.2	66.9	66.9	66.3	67.1	67.7	67.0	69.1	69.4	71.3	72.9	118.3
CONFIG T-J	160	69.5	74.7	74.1	68.9	69.2	78.2	74.5	79.2	67.9	67.7	68.8	69.7	69.4	74.9	73.6	69.6	120.7
LOC PTD	200	72.7	78.1	76.9	70.8	71.3	80.3	76.8	82.0	69.8	69.1	71.1	71.9	70.8	77.3	77.1	69.1	126.1
DATE 07/29/74	250	66.0	68.1	67.9	68.0	68.1	67.9	67.8	66.2	66.0	65.1	66.9	67.7	69.7	70.3	69.0	69.0	118.0
RUN 461	310	67.9	70.2	71.5	71.1	72.2	70.4	69.9	68.4	68.4	67.7	68.5	69.6	73.0	72.2	71.3	70.0	120.5
TAPE A951	400	67.6	73.0	74.1	73.6	72.2	69.9	70.6	66.8	68.7	68.9	68.9	70.7	73.9	73.0	70.9	69.9	121.2
BAR 28.8 HG	500	70.8	75.6	75.0	73.4	77.1	73.0	71.5	71.9	72.6	70.7	73.9	70.7	74.8	76.8	74.7	72.7	123.9
(97084. N/M2)	600	69.2	72.3	74.3	73.9	74.2	71.1	70.9	71.3	70.3	70.4	72.1	70.8	72.9	73.3	74.0	72.1	122.4
TAMP 69. DEG F	800	70.0	72.8	75.2	77.1	73.9	73.2	72.9	72.1	71.1	70.8	72.2	70.6	72.0	71.1	71.0	68.8	122.7
(293. DEG K)	1000	70.2	72.8	75.3	75.1	73.2	72.2	73.2	72.0	72.0	72.0	72.4	73.7	72.0	72.1	71.9	70.2	123.1
TWET 58. DEG F	1200	71.7	74.9	77.2	76.7	76.0	74.8	75.0	73.7	72.8	73.0	74.2	74.8	75.7	74.2	74.7	70.7	125.0
(287. DEG K)	1400	71.1	74.2	76.3	77.2	75.1	74.1	75.1	73.3	72.9	72.2	73.0	74.6	74.8	74.3	74.2	70.1	124.7
HACT 9.03 GM/M3	2000	71.9	74.2	77.2	77.0	77.8	75.1	75.1	73.3	73.3	73.2	73.4	76.1	76.0	76.2	77.1	72.0	126.0
(.00903 KG/M3)	2400	72.6	76.0	78.9	79.7	79.2	76.1	76.8	74.0	73.7	74.7	73.9	76.7	77.0	77.0	78.0	71.9	127.2
NF10747. RPM	3150	70.9	75.0	78.9	79.1	77.7	74.1	76.2	75.1	74.3	72.3	74.3	76.7	75.0	75.5	75.3	70.9	126.4
(1125. RAD/SEC)	4000	72.9	73.8	76.3	79.7	79.3	78.2	76.0	73.8	74.1	71.8	75.0	76.6	80.0	77.4	76.1	73.6	127.8
NF10650. RPM	5000	71.0	76.3	77.6	75.9	79.6	76.3	78.2	75.4	76.5	75.5	77.4	78.1	76.3	74.3	76.4	70.6	127.9
(1115. RAD/SEC)	6000	71.6	73.6	77.3	78.3	77.7	74.4	74.3	72.7	72.7	73.7	73.8	75.1	75.5	73.5	76.6	69.6	126.5
NF10628. RPM	7000	71.3	75.7	75.8	76.3	79.0	76.8	80.6	79.6	78.9	72.4	75.6	78.3	77.4	78.7	74.7	71.4	129.9
(1113. RAD/SEC)	10000	68.2	70.4	72.9	71.5	72.9	71.6	72.5	69.8	69.5	69.4	69.6	72.3	71.7	69.9	70.3	65.5	124.0
NO. OF BLADES 44	12500	65.7	67.8	68.2	67.9	70.3	69.2	69.8	67.2	67.0	66.8	67.0	69.6	70.1	66.2	66.8	63.9	122.3
	14000	64.0	66.1	66.3	65.9	68.6	68.2	67.2	65.1	65.4	66.2	65.5	68.2	69.0	67.3	68.4	65.1	123.3
	20000	64.6	63.5	64.7	62.9	66.7	65.6	64.5	62.7	64.8	65.5	63.9	66.2	66.4	67.8	66.3	66.4	124.3
OVERALL MEASURED		89.6	91.7	91.2	91.7	93.2	91.3	92.9	92.5	89.9	90.9	91.4	91.0	91.9	92.1	92.8	91.9	
OVERALL CALCULATED		87.1	90.1	90.7	90.4	91.1	89.3	89.2	88.8	87.4	86.4	87.4	88.5	88.4	88.5	88.6	86.1	139.6
2-000		97.4	100.4	102.7	103.0	103.0	101.4	101.3	99.8	99.4	98.4	99.9	100.9	102.3	101.2	101.1	97.5	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RAD(ANS))

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	76.3	79.8	77.0	78.5	79.0	78.2	78.4	77.9	76.6	75.8	74.6	73.5	76.0	75.8	76.1	76.4	126.7
63	76.8	78.9	77.2	75.9	83.0	79.3	72.9	70.0	72.8	71.1	72.2	70.8	73.3	75.1	75.2	77.8	125.7
RADIAL 100. FT. (30. M)	80	71.0	74.4	71.8	71.5	72.4	70.9	70.2	68.4	70.5	70.4	70.5	67.5	68.9	70.5	70.5	120.2
VEHICLE ATT CONFIG Y-R	100	70.4	72.9	71.5	70.7	69.0	68.9	69.4	66.5	65.7	66.5	68.7	68.4	68.1	67.7	69.5	118.4
LOC PTD	125	66.9	68.2	67.2	68.0	67.1	67.3	68.2	65.9	66.2	65.1	65.5	66.0	68.3	68.2	69.3	117.2
DATE 07/29/74	150	77.6	76.8	75.1	70.9	70.0	80.5	79.9	75.6	70.0	68.7	74.8	66.8	74.2	80.0	74.2	125.8
RUN 462	200	66.7	68.3	68.2	67.8	69.1	69.1	68.9	66.7	65.1	64.1	65.3	65.8	67.2	67.9	67.4	117.2
TAPE A951	250	70.7	72.9	72.0	72.0	72.2	71.1	71.9	70.0	68.2	67.2	67.8	67.9	69.3	70.2	69.1	120.0
BAR 28.8 HG (97084. N/M2)	315	75.1	79.5	77.6	77.2	81.4	80.4	83.1	82.4	81.3	76.3	71.2	75.0	76.3	79.6	79.3	129.6
TAMP 69. DEG F (294. DEG K)	400	68.5	73.0	76.1	75.9	76.9	77.1	74.5	73.9	71.9	73.0	67.9	69.4	76.2	72.8	72.0	124.1
TWET 58. DEG F (288. DEG K)	500	73.7	81.7	84.9	87.6	90.9	90.3	86.5	87.6	84.7	86.1	76.1	74.3	88.6	82.9	81.0	136.8
HACT 9.24 G4/43 (.00924 KG/43)	630	78.9	81.3	87.0	85.0	88.3	89.4	96.9	93.0	90.5	90.4	90.2	91.0	85.8	81.5	82.2	140.9
NFA 9654. RPM (1011. RAD/SEC)	800	81.0	85.1	89.5	90.8	91.1	96.6	94.9	94.9	93.0	91.1	83.4	89.6	87.6	90.1	84.5	142.1
NFX 9562. RPM (1001. RAD/SEC)	1000	86.9	84.5	89.5	87.2	88.2	87.7	92.9	90.2	90.1	87.4	85.2	88.8	82.4	80.4	78.5	138.5
NFD 10628. RPM (1113. RAD/SEC)	1250	85.9	85.0	88.4	87.1	88.2	89.1	87.0	84.1	82.3	83.3	82.0	79.7	81.4	79.3	79.3	135.1
NO. OF BLADES 44	1600	87.0	91.2	90.5	92.2	92.2	88.3	89.9	85.2	85.0	84.2	80.9	81.0	81.3	80.1	79.6	137.2
OVERALL MEASURED	2000	90.0	89.2	90.4	87.2	87.6	88.5	87.1	85.2	82.4	82.4	80.3	80.0	80.7	81.2	79.5	135.4
OVERALL CALCULATED	2500	89.8	92.0	90.1	88.6	87.0	89.5	87.6	84.0	82.8	81.1	80.2	78.6	82.6	79.0	78.1	135.8
PWLS	3150	85.0	90.1	91.4	86.3	87.3	85.7	86.0	85.0	85.1	82.5	79.6	80.2	79.7	75.4	76.4	135.2
	4000	89.0	89.0	88.8	87.8	88.1	86.2	84.0	81.2	81.4	76.1	76.8	78.5	76.1	74.4	71.8	134.1
	5000	86.2	90.3	87.5	83.2	88.4	85.5	85.4	82.3	81.6	79.5	78.4	76.9	75.7	73.4	75.4	134.0
	6300	84.4	86.0	85.8	84.3	83.6	81.0	80.5	78.5	77.6	76.9	74.8	75.3	75.7	72.7	76.9	131.2
	8000	82.6	85.7	82.9	80.4	82.1	80.3	81.3	77.5	76.8	74.9	73.5	74.1	73.7	72.5	74.7	130.4
	10000	80.4	81.8	79.9	77.7	78.6	76.6	76.2	73.4	72.7	71.6	69.7	69.4	69.9	68.7	68.6	127.4
	12500	75.9	78.2	76.0	73.6	74.8	74.0	73.8	70.8	69.8	68.1	67.0	66.8	68.1	65.9	65.2	125.4
	15000	71.9	75.1	72.2	70.1	71.3	70.5	69.8	68.0	67.1	65.4	64.4	66.8	67.3	67.2	66.5	124.7
	20000	67.6	69.9	67.4	65.5	66.5	66.9	66.1	63.3	64.5	63.3	61.7	65.4	65.5	66.5	65.5	124.3
		97.7	100.0	100.1	98.8	100.1	101.2	101.7	99.0	97.8	96.9	94.9	95.6	95.5	94.0	94.3	93.0
		97.8	99.7	100.1	99.1	100.1	100.8	101.6	99.5	98.0	96.7	94.0	95.7	94.7	91.5	89.4	148.5
		111.0	113.1	113.5	111.1	111.9	111.8	111.1	109.0	108.3	106.4	104.0	104.4	103.7	103.0	102.5	99.2

REPRODUCIBILITY OF THE  
 OVERALL PWLS IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	77.8	81.7	79.1	79.8	79.6	78.7	78.8	78.7	77.7	76.9	75.7	74.6	76.9	77.8	77.6	77.9	127.7
63	81.1	84.0	83.4	80.9	84.0	79.3	75.8	72.0	78.3	76.8	78.3	79.0	75.0	74.1	78.1	77.9	128.7
RADIAL 100. FT.	86	71.5	74.6	72.6	71.2	71.4	70.8	69.5	68.7	72.4	71.4	71.6	69.2	68.5	70.6	70.9	120.7
( 30. M)	100	68.6	69.8	69.8	68.4	66.5	66.9	66.7	65.8	65.7	66.8	68.0	67.6	68.7	68.0	68.6	117.6
VEHICLE ATT	120	66.3	66.3	67.2	67.0	68.0	67.1	68.8	67.1	65.3	76.3	67.4	66.8	70.1	68.4	71.1	118.4
CONFIG T-0	160	70.4	73.9	72.1	70.8	71.9	78.9	74.5	79.9	66.0	58.6	68.8	70.0	68.7	76.2	74.0	124.2
LOC PTO	200	72.9	77.0	75.1	72.8	73.6	81.3	76.9	83.2	67.9	69.9	69.9	71.7	69.9	77.4	75.9	126.7
DATE 07/29/74	250	65.9	67.7	68.0	67.6	67.8	67.0	67.9	67.0	65.8	65.8	67.0	67.6	70.0	70.0	69.1	118.0
RUN 463	310	60.0	69.1	71.2	71.1	72.2	69.8	70.2	68.3	68.4	67.3	68.5	69.9	72.0	72.2	71.2	120.3
TAPE 4951	400	67.7	72.7	74.1	73.6	71.8	69.8	70.7	66.0	69.0	58.6	68.8	70.6	73.7	72.0	71.9	121.1
BAR 28.8 HG	500	70.9	75.6	75.0	72.5	76.8	73.6	71.5	70.9	71.6	69.9	72.0	69.7	74.9	77.2	74.8	123.7
(97084. N/M2)	630	69.3	73.2	74.1	73.6	74.0	71.4	70.9	70.1	70.3	71.0	72.1	70.1	73.0	73.2	74.2	122.4
TAMB 69. DEG F	800	70.8	73.1	75.2	77.0	72.8	72.9	73.0	71.1	71.1	70.9	71.2	70.7	72.0	71.3	71.1	122.5
(294. DEG K)	1000	71.0	73.2	74.3	74.1	73.0	72.1	73.2	72.9	72.0	72.2	72.2	73.0	73.1	72.3	72.5	123.0
TWET 58. DEG F	1200	72.0	75.1	76.9	77.2	76.1	74.2	74.9	74.0	73.2	73.0	73.1	74.5	75.8	75.1	74.6	125.1
(288. DEG K)	1600	71.9	75.2	76.0	76.0	75.2	74.3	74.8	73.0	73.2	72.0	73.3	74.8	75.1	74.4	74.3	124.7
HACT 9.24 G4/43	2000	72.0	75.0	77.4	78.2	77.1	75.4	74.8	73.0	73.3	73.2	73.2	75.9	76.4	76.3	76.3	125.9
(.00924 XG/43)	2500	72.7	75.9	79.2	79.8	79.1	75.9	75.8	73.9	73.9	74.9	74.1	76.9	77.1	77.3	78.1	127.3
NFA10748. RPM	3100	71.5	76.2	78.4	79.5	76.1	74.1	75.9	74.3	75.3	73.1	74.4	77.1	75.2	75.3	76.1	126.5
(1125. RAD/SEC)	4000	73.0	75.1	78.4	79.2	79.4	78.4	76.8	73.8	75.1	72.1	74.3	76.6	79.0	77.4	76.1	127.7
NFK10646. RPM	5000	70.3	76.3	77.4	76.1	78.5	76.3	78.4	75.4	76.4	74.2	77.9	78.3	75.3	75.4	76.2	127.8
(1115. RAD/SEC)	6300	71.7	73.4	77.8	77.6	76.6	73.7	74.3	72.0	73.5	73.3	73.9	75.4	75.4	73.5	77.5	126.4
NFO10628. RPM	8000	71.6	76.4	76.9	76.6	78.8	76.5	80.4	78.9	77.5	73.4	74.9	77.5	76.8	78.0	74.7	129.4
(1113. RAD/SEC)	10000	68.5	70.6	71.8	71.5	72.6	71.5	72.2	70.6	70.4	69.3	69.6	71.4	71.5	69.7	70.7	123.9
NO. OF BLADES 44	12000	65.7	67.8	69.1	68.7	69.0	68.2	69.6	67.5	67.1	67.0	67.2	68.6	69.0	66.9	67.0	122.8
	16000	64.9	66.0	66.5	66.1	68.0	66.4	67.0	65.3	66.2	66.1	65.4	68.1	68.5	66.2	67.2	122.8
	20000	63.4	63.6	64.8	63.2	63.6	64.4	64.2	62.3	65.6	64.6	62.0	64.2	66.5	64.6	65.9	123.2
OVERALL MEASURED		90.0	91.9	91.4	91.8	92.2	91.3	92.8	91.9	91.0	90.1	91.1	90.6	91.7	91.3	92.4	91.9
OVERALL CALCULATED		86.7	89.9	90.4	90.1	90.5	89.3	88.8	88.9	87.3	86.2	87.1	88.2	88.4	88.7	88.7	86.1
PWL		97.5	100.5	102.6	102.9	102.7	101.5	101.2	99.4	99.4	98.2	99.9	100.9	101.3	101.3	101.2	139.4

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 23.2

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	76.6	79.8	77.9	78.7	78.7	77.8	77.4	76.5	76.8	74.8	73.9	73.3	75.8	76.0	75.5	76.7	126.3	
60	77.9	81.3	79.3	77.8	82.8	78.1	74.8	69.8	73.8	72.0	72.9	71.6	75.9	77.3	76.8	79.3	126.5	
RADIAL 100. FT. (30. M)	80	70.5	74.4	71.9	71.3	71.8	70.5	70.4	68.5	70.7	70.7	69.8	67.2	68.1	70.6	70.4	70.5	120.1
VEHICLE ATT CONFIG T-0	100	70.4	71.9	71.8	69.5	69.7	68.0	69.4	65.9	65.7	66.6	68.4	67.7	67.8	68.0	69.7	118.2	
LOG PTD	125	67.2	68.4	67.3	67.2	67.1	67.5	68.2	66.1	65.1	65.0	65.5	66.1	67.0	68.2	68.9	70.1	117.0
DATE 07/29/74	160	70.7	77.0	75.1	70.6	70.8	79.9	77.9	75.9	68.7	68.7	74.8	66.5	73.5	80.1	73.5	72.9	125.6
RUN 464	200	66.7	68.4	68.2	67.7	68.2	67.9	68.7	66.8	64.9	64.8	64.9	66.8	67.9	67.0	67.1	116.9	
TAPE A951	250	71.0	73.2	73.2	71.6	72.1	70.9	71.7	69.1	68.0	65.8	67.2	66.9	69.0	69.0	68.7	119.7	
BAR 28.8 HG (97884. N/M2)	315	74.1	75.4	75.3	75.2	79.5	79.3	81.1	81.2	79.4	75.1	71.2	72.2	73.0	78.5	77.3	75.3	128.0
TAMP 69. DEG F (293. DEG K)	400	68.9	73.1	75.1	76.6	77.0	76.9	74.8	73.6	72.7	72.6	67.8	68.8	75.0	73.0	71.7	70.0	124.1
WET 58. DEG F (287. DEG K)	500	73.5	82.0	85.0	88.6	90.9	89.9	86.6	87.9	85.8	86.8	75.9	74.2	89.1	84.1	80.0	75.9	136.7
NFA 9649. RPM (1010. RAD/SEC)	600	74.2	80.3	86.0	87.2	90.1	89.4	97.8	94.1	89.4	90.0	89.4	92.1	87.4	81.5	81.4	85.1	141.5
NFK 9562. RPM (1081. RAD/SEC)	1000	79.7	82.1	89.7	89.0	92.2	96.2	93.8	93.9	93.2	91.1	84.0	89.6	88.3	90.3	82.9	78.0	141.8
NO. OF BLADES 44	1250	86.2	83.2	89.4	85.9	87.5	86.5	93.2	91.1	90.0	87.1	84.1	88.1	81.1	80.2	78.1	75.0	135.3
OVERALL MEASURED	1500	89.0	83.7	89.4	88.0	89.2	88.9	85.0	84.9	81.2	83.1	80.9	79.9	82.0	79.2	79.2	74.7	135.1
OVERALL CALCULATED	2000	86.1	89.8	91.3	92.1	93.0	86.4	88.9	86.9	85.2	84.0	81.3	82.0	79.1	81.4	79.5	75.9	137.4
PNDU	2500	91.0	90.2	89.9	89.2	87.4	88.2	88.0	84.1	81.2	81.1	81.1	79.2	81.6	81.5	78.1	76.1	135.5
	3150	89.5	91.6	90.9	88.6	86.9	87.9	86.9	84.9	83.8	82.1	79.2	77.9	81.0	79.1	78.8	73.8	135.0
	4000	88.0	88.7	89.6	87.9	88.2	87.3	83.0	81.9	81.2	77.0	76.3	76.9	78.4	75.0	73.0	71.9	135.8
	5000	86.0	90.2	87.6	84.1	87.6	84.6	84.2	82.6	81.6	79.3	78.6	76.0	75.5	73.3	75.1	69.9	133.7
	6300	85.3	86.4	86.9	84.3	83.6	81.7	81.7	78.8	76.7	76.5	75.7	74.5	77.6	73.5	75.6	69.5	131.6
	8000	82.3	85.7	82.7	80.4	81.9	80.9	81.6	77.8	76.5	73.4	74.8	74.3	76.5	72.6	72.8	68.4	130.6
	10000	80.4	81.8	80.9	77.7	78.7	77.9	76.3	73.5	72.7	71.5	69.6	69.5	69.7	66.9	67.4	64.3	127.6
	12500	75.9	77.9	76.4	73.2	74.9	73.8	73.6	71.1	69.9	67.9	68.0	66.9	67.1	64.0	64.9	60.8	125.4
	16000	71.9	75.0	72.3	70.0	71.5	71.2	71.1	68.1	66.5	66.3	65.4	66.1	66.5	64.2	65.5	62.2	124.7
	20000	62.5	69.8	67.7	66.6	68.5	68.8	66.3	63.5	64.5	63.8	62.8	64.2	63.6	64.6	64.7	63.3	124.1
		97.9	99.1	100.3	99.8	100.0	100.0	101.8	99.9	97.0	96.8	94.2	95.9	95.1	94.2	93.1	93.0	
		97.6	99.2	100.4	99.2	100.5	100.4	101.5	99.8	97.9	96.6	93.6	95.1	94.0	90.7	89.5		
		110.6	112.7	113.7	111.3	112.0	111.1	111.0	109.7	108.3	106.7	103.8	104.6	105.7	103.8	102.2	99.3	148.6

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	79.7	80.8	77.9	79.5	78.9	77.5	78.4	77.7	76.9	75.5	73.8	73.5	75.2	76.9	75.4	77.7	126.8
63	79.7	81.1	79.0	77.8	82.9	78.9	74.7	76.1	75.9	74.0	74.0	71.9	73.8	79.0	77.1	78.8	127.1
RADIAL 100. FT. (30. M)	80	73.5	74.7	71.9	71.5	72.5	71.3	71.3	69.3	70.5	69.3	69.5	67.2	67.4	69.7	69.4	120.1
VEHICLE ATT	120	70.2	70.1	68.5	68.0	69.4	67.1	68.9	67.0	66.4	65.3	66.1	66.8	67.0	66.4	69.5	117.5
CNTRIC T-0	160	77.6	75.0	68.2	69.4	68.0	76.5	75.7	76.7	75.0	69.9	72.8	70.8	73.8	75.9	71.7	123.7
LDC PTD	200	68.7	69.1	68.3	68.2	68.1	66.7	67.8	66.2	66.8	63.8	65.2	64.6	66.8	66.9	66.8	116.7
DATE 07/29/74	250	74.0	73.9	74.2	72.5	73.9	71.8	71.7	70.1	69.1	67.1	67.2	67.6	69.9	68.8	69.1	120.4
RUN 465	310	82.1	78.4	75.3	76.9	85.5	83.8	82.9	83.0	80.3	80.4	78.5	79.0	78.4	77.4	78.4	131.0
TAPP A951	400	71.7	74.7	77.8	76.5	74.1	74.5	79.5	73.0	76.9	79.9	75.9	74.4	76.0	71.0	73.7	125.5
BAR 28.8 HG	500	76.8	80.8	86.7	86.7	80.9	84.6	90.9	83.9	87.8	80.9	86.9	85.6	85.8	77.9	82.6	136.0
(97084. N/M2)	630	84.2	87.5	85.1	81.8	95.3	96.8	100.0	97.2	97.1	95.4	94.3	92.4	93.0	85.4	81.2	145.3
TAMB 49. DEG F	800	90.0	87.2	88.0	96.6	93.2	98.6	99.6	99.1	90.9	91.1	95.0	88.0	96.1	96.9	84.1	145.9
(293. DEG R)	1000	91.1	93.2	90.2	89.8	93.2	96.9	99.0	95.0	96.4	93.2	95.4	89.2	92.1	92.2	89.1	144.8
TWET 58. DEG F	1250	86.7	95.2	96.3	95.7	93.3	90.5	91.8	88.9	87.9	86.1	83.2	83.7	86.1	84.1	79.9	140.2
(287. DEG R)	1600	95.8	99.2	98.3	98.3	92.3	91.7	92.8	91.2	89.0	87.0	83.2	84.2	85.2	85.4	83.2	141.8
HACT 9.03 G4/M3	2000	101.2	100.2	98.2	94.9	90.7	92.9	94.2	91.4	87.3	86.1	85.2	84.2	95.3	84.4	84.5	141.0
(.00903 KG/M3)	2500	92.6	93.9	98.1	94.6	93.9	91.4	92.6	89.0	87.2	85.1	82.9	83.9	83.4	82.1	81.9	140.7
NFA 9430. RPM	3150	93.0	97.4	94.6	93.0	94.4	90.8	91.3	89.3	86.5	83.4	81.2	81.2	81.1	76.4	78.2	139.9
(987. RAD/SEC)	4000	95.2	94.2	93.1	93.0	91.1	90.6	91.1	85.9	86.0	81.0	81.1	80.8	82.1	77.2	75.9	138.7
NFA 9345. RPM	5000	91.1	96.5	93.4	89.2	93.6	90.9	92.3	87.5	87.5	84.5	82.7	79.4	78.4	75.4	77.2	139.7
(979. RAD/SEC)	6300	91.4	91.7	91.7	90.7	88.7	87.3	86.3	83.4	81.9	79.6	78.9	77.1	79.7	74.7	76.4	136.4
NFA 10628. RPM	8000	89.5	92.8	88.9	86.4	87.8	85.2	87.6	83.5	81.9	77.6	77.7	75.4	75.7	73.5	71.7	135.9
(1113. RAD/SEC)	10000	86.6	88.7	85.9	84.2	83.8	82.4	82.3	78.5	77.6	76.8	73.7	72.5	71.4	68.8	68.8	132.9
NO. OF BLADES 44	12500	82.7	85.0	82.3	79.7	81.0	78.8	79.7	77.0	74.9	72.8	70.2	68.0	68.9	65.9	65.9	131.0
	15000	80.0	82.3	79.3	77.0	78.5	76.2	76.0	72.3	72.5	69.3	67.2	66.9	66.1	66.2	65.4	129.9
	20000	75.7	77.4	75.8	73.5	75.8	72.4	73.4	69.5	71.6	66.5	63.6	66.2	64.8	67.5	65.5	129.7
OVERALL MEASURED		104.9	105.3	105.3	104.8	104.3	104.3	105.7	103.2	102.1	100.0	100.1	97.6	99.8	98.9	95.1	93.9
OVERALL CALCULATED		105.1	106.6	105.7	104.7	103.8	104.5	106.3	103.8	102.0	99.9	100.7	97.1	100.6	99.3	94.1	91.7
PNL DB		118.4	119.2	118.9	116.4	116.5	114.9	116.1	113.2	111.3	109.8	108.8	107.1	108.0	107.8	105.1	102.1

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MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	76.6	79.4	77.6	77.6	78.9	76.6	77.3	77.4	76.5	75.5	74.7	73.5	77.5	77.1	77.8	78.7	126.7	
63	73.7	75.1	76.0	72.7	82.0	79.2	71.9	71.0	71.8	70.8	72.0	70.7	72.8	73.1	73.7	74.7	124.7	
RADIAL 100. FT. (30. M)	80	69.3	72.4	70.8	70.15	70.8	69.8	70.5	69.2	69.4	69.7	69.8	66.4	66.4	68.7	68.4	69.6	119.3
VEHICLE ATT	100	68.4	69.6	69.8	69.15	70.0	68.7	68.4	67.5	66.9	65.7	66.0	67.4	68.9	68.0	67.7	68.4	117.9
CONFIG T=0	125	68.1	70.1	68.9	70.11	69.4	69.1	67.9	67.0	66.3	65.1	65.2	67.8	70.0	67.5	68.2	68.2	117.9
LOC PTO	160	68.9	71.7	68.9	73.19	73.9	75.1	72.9	73.8	68.7	67.7	66.1	74.7	77.7	76.2	73.0	69.6	123.4
DATE 07/29/74	200	67.9	70.2	69.9	68.18	68.9	67.8	67.7	65.8	64.9	63.1	63.2	64.6	65.8	66.0	65.1	64.7	116.3
RUN 466	250	74.7	75.2	75.0	74.17	74.2	72.2	71.6	69.7	67.8	65.8	67.0	67.5	68.8	68.9	68.8	68.0	120.6
TAPE A951	315	75.3	76.3	79.2	76.19	77.2	74.3	74.9	73.3	69.4	70.1	74.2	76.8	75.4	74.5	71.3	69.3	124.7
BAR 28.8 HG	400	72.6	74.7	76.1	76.19	81.1	76.8	75.9	68.6	69.1	74.0	71.1	76.4	73.0	73.9	71.0	70.6	125.1
(97118. N/M2)	500	74.5	75.0	78.0	79.15	84.7	83.0	82.4	79.8	80.7	79.8	78.0	81.3	75.8	77.0	77.8	75.7	130.6
TAMB 68. DEG F	630	81.9	81.3	84.5	83.12	91.4	95.4	94.2	92.9	94.6	92.3	91.3	91.1	88.2	83.4	90.3	88.1	142.1
(293. DEG K)	800	91.9	92.2	92.0	93.17	99.2	97.1	100.9	97.1	93.9	93.8	95.3	95.7	93.9	86.1	95.9	95.9	146.5
TWET 58. DEG F	1000	89.2	89.2	88.5	94.0	96.3	100.2	100.8	96.0	95.4	92.0	89.5	94.9	94.1	89.4	83.3	86.0	145.8
(287. DEG K)	1250	93.7	99.2	105.0	102.19	103.2	100.2	96.7	92.6	96.0	93.1	92.2	95.8	91.1	87.0	83.2	90.8	148.0
HACT 9.32 GM/M3	1600	98.1	99.2	99.2	100.0	97.3	96.3	97.1	93.0	94.3	94.2	90.1	91.0	87.0	84.2	86.2	84.3	145.0
(.00932 KG/M3)	2000	98.2	95.4	101.5	96.12	98.3	98.4	93.9	93.8	93.2	91.1	91.5	88.9	88.1	87.5	87.1	84.3	144.8
NFA 9043. RPM	2500	92.9	97.1	100.2	96.19	94.9	96.9	96.8	93.5	91.1	89.1	87.1	84.6	84.7	82.0	84.1	81.0	143.8
(947. RAD/SEC)	3150	95.0	99.2	99.5	98.12	94.4	95.4	98.2	94.1	92.2	90.4	86.3	84.0	84.1	80.2	84.2	78.4	144.3
NFK 8970. RPM	4000	96.8	95.0	97.3	95.19	97.1	97.2	94.1	91.7	91.3	85.9	83.3	83.9	86.1	81.4	79.2	78.0	143.3
(939. RAD/SEC)	5000	92.4	97.3	96.4	91.13	96.4	94.3	95.1	91.1	92.2	89.3	86.6	83.1	83.1	79.4	79.3	76.4	142.7
NFD10628. RPM	6300	92.3	93.5	94.6	92.13	93.5	91.5	91.3	88.3	87.5	84.6	82.9	80.1	80.5	76.8	77.3	74.4	140.2
(1113. RAD/SEC)	8000	89.8	93.8	91.8	89.16	91.8	90.8	92.2	88.5	86.5	82.6	81.7	79.4	77.7	75.5	73.6	72.6	139.8
NO. OF BLADES 44	10000	88.3	90.7	88.6	86.12	88.7	88.8	87.2	84.0	82.4	81.2	78.5	76.1	74.3	70.7	71.6	69.6	137.2
	12500	83.8	87.0	85.1	83.15	84.9	84.7	84.5	82.5	79.7	77.7	75.1	72.4	72.0	66.7	66.7	64.9	135.2
	16000	80.0	82.9	81.0	79.17	81.9	81.2	80.7	78.0	76.2	73.8	72.0	69.6	69.8	66.3	65.2	65.0	133.5
	20000	76.0	78.1	77.3	75.12	78.4	76.2	76.0	73.2	73.4	71.3	70.3	69.0	69.4	67.3	65.4	65.5	132.3
OVERALL MEASURED	104.9	106.8	109.8	108.19	107.8	108.1	107.7	104.6	103.9	102.0	100.1	101.7	99.8	95.9	98.1	98.5		
OVERALL CALCULATED	105.2	107.1	109.6	107.7	108.3	107.9	107.8	104.3	104.0	102.0	100.8	101.9	99.9	95.6	98.7	98.6		
PNDW	118.1	120.1	121.2	119.6	119.8	119.6	119.8	116.3	115.2	113.2	111.5	110.9	109.9	107.2	108.0	107.2		

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
		(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	78.6	79.3	77.4	78.4	78.9	78.2	75.9	77.9	77.8	76.1	74.7	73.6	76.7	76.7	76.7	78.9	126.0
	63	73.9	74.0	74.7	71.8	81.9	80.8	71.0	71.1	73.1	92.5	72.1	70.0	70.0	72.9	72.0	74.2	126.4
RADIAL 100. FT.	80	71.0	71.6	69.3	69.13	70.6	70.3	69.6	68.5	71.5	70.5	70.4	65.5	65.6	68.5	68.5	68.9	119.2
( 30. M )	100	70.2	70.0	70.0	69.9	69.9	68.6	67.0	67.3	68.9	65.6	67.1	67.8	67.9	68.2	66.1	70.2	116.0
VEHICLE ATT	125	69.4	69.2	67.2	67.9	68.1	67.1	65.2	66.3	68.0	65.8	65.0	66.2	67.4	66.2	68.2	68.5	116.8
CONFIG T=0	160	73.9	71.0	68.0	69.7	68.1	71.4	69.1	69.0	69.8	65.5	68.9	71.0	72.8	74.0	73.7	70.1	120.6
LOC PTO	200	69.2	68.9	68.0	67.6	68.2	67.5	66.0	66.2	67.7	66.4	64.0	64.1	65.1	66.2	65.1	65.0	116.3
DATE 07/31/74	250	74.4	73.9	74.1	72.1	72.3	71.9	70.0	70.2	69.1	66.6	66.9	68.0	69.0	69.0	67.9	67.3	119.8
RUN 485	315	73.9	76.7	79.0	74.8	76.2	74.5	74.9	78.2	72.9	59.6	72.6	77.0	76.2	77.1	70.8	69.2	125.3
TAPE A7B3	400	75.9	73.6	76.6	79.8	84.9	82.4	76.1	75.9	74.8	76.3	76.4	78.9	71.2	78.2	70.0	73.3	128.4
BAR 29.0 HG	500	78.8	75.9	79.7	83.4	88.8	87.5	82.9	84.9	86.7	83.3	83.2	84.0	81.0	81.7	78.7	77.9	134.4
(97827. N/M2)	630	84.4	88.2	89.2	88.1	95.3	97.1	96.6	97.9	99.7	96.3	95.7	94.5	94.6	86.3	91.4	88.4	145.9
TAMR 60. DEG F	800	92.2	95.7	94.0	94.0	98.3	94.7	98.2	93.3	98.2	95.8	97.5	90.9	96.2	90.9	88.8	93.0	146.1
(289. DEG K)	1000	88.5	85.9	92.2	95.9	98.1	101.6	100.1	95.0	95.6	91.9	90.5	94.2	92.5	87.2	80.1	84.5	146.0
TWET 57. DEG F	1250	97.8	100.9	107.7	104.9	101.9	99.7	98.2	94.4	97.2	95.6	95.7	97.9	93.5	88.3	87.9	90.1	149.3
(287. DEG K)	1600	98.1	100.1	98.6	98.1	98.4	96.9	95.9	92.3	92.5	88.9	90.4	90.0	89.3	83.4	87.2	83.0	144.3
HAC710.76 G4/M3	2000	97.6	93.4	103.6	96.0	96.3	94.7	96.6	95.6	93.5	89.9	90.6	89.2	88.4	86.9	85.2	83.6	144.7
(.01076 KG/M3)	2500	96.8	98.8	100.6	98.5	96.9	98.5	95.9	95.4	92.9	91.5	87.6	86.8	86.4	82.2	84.1	80.9	144.9
NFA 9007. RPM	3150	96.3	95.8	98.0	96.8	95.1	95.8	96.1	95.2	91.5	89.7	86.9	84.0	84.3	81.4	81.0	78.1	143.5
( 943. RAD/SEC)	4000	96.9	96.7	97.0	96.9	97.2	96.5	93.8	93.0	92.1	87.7	82.4	83.9	85.1	77.4	79.8	76.8	143.4
NFX 8998. RPM	5000	94.5	96.0	95.0	95.2	97.3	95.2	94.5	94.4	93.4	90.9	86.8	82.5	82.4	80.7	80.5	76.4	143.5
( 942. RAD/SEC)	6300	94.6	95.1	94.4	92.0	92.3	93.9	90.4	89.5	89.6	85.8	82.7	80.3	81.8	78.9	77.2	74.2	140.6
NFD 10628. RPM	8000	91.5	93.9	92.3	90.3	92.3	91.0	91.2	89.4	88.3	84.7	81.6	79.2	78.4	74.7	74.2	72.1	140.1
(1113. RAD/SEC)	10000	90.5	91.2	88.9	87.9	89.5	88.9	87.3	86.4	84.3	82.6	79.9	76.0	75.4	72.6	71.9	70.1	138.0
NO. OF BLADES 44	12500	87.0	86.8	86.0	84.7	85.2	85.5	84.1	83.0	80.9	79.6	75.4	72.0	71.2	67.3	68.8	66.1	135.7
	16000	83.6	83.6	81.8	80.4	82.6	82.5	80.7	80.0	77.9	77.3	71.5	68.8	67.7	65.0	64.6	61.8	134.5
	20000	78.4	79.2	78.2	76.5	79.4	76.9	76.8	74.8	73.6	75.2	68.2	64.6	62.5	63.1	62.6	60.5	133.0
OVERALL MEASURED		106.3	106.8	110.8	108.7	108.0	107.5	107.2	105.2	105.5	102.6	103.3	102.2	102.4	97.0	96.9	97.4	
OVERALL CALCULATED		106.4	107.6	111.0	108.6	108.4	108.1	107.3	105.4	105.9	103.1	102.8	102.2	102.3	96.6	96.6	97.0	156.0
PNDU		119.0	119.7	121.8	119.8	120.1	120.0	118.7	117.6	116.3	113.6	111.8	111.8	111.1	107.4	106.9	105.8	

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		MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)															PWL	
		ANGLES FROM INLET IN DEGREES (AND RADIAN)																
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ.		(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	78.9	80.5	77.7	78.16	79.0	78.5	77.6	78.0	77.3	76.2	74.5	73.5	76.3	76.7	75.7	77.4	126.6
	63	77.9	80.0	77.0	76.16	83.1	60.8	74.9	75.1	74.8	82.9	73.6	73.0	75.6	78.0	76.9	79.1	128.2
RADIAL 100. FT.	80	72.9	73.5	71.4	70.13	71.7	70.2	68.9	68.6	73.3	71.5	70.5	66.7	67.3	69.5	69.4	69.8	120.1
( 30. M )	100	72.0	71.8	70.7	70.10	69.3	68.8	67.9	66.0	69.9	65.8	68.7	68.1	67.8	67.1	67.8	68.8	118.2
VEHICLE ATT	125	68.2	67.9	67.1	67.10	67.5	65.9	66.3	65.5	70.2	64.9	65.1	64.4	67.0	67.4	69.1	69.2	117.0
CONFIG T=0	160	80.8	79.0	73.7	75.9	78.0	71.8	76.1	75.2	76.8	70.7	69.9	66.7	77.7	79.1	76.0	76.8	125.5
LOC PTO	200	67.9	67.7	66.8	66.6	67.3	66.8	66.9	66.3	68.9	65.5	63.6	65.0	66.7	67.1	65.8	66.8	116.5
DATE 07/31/74	250	71.3	70.8	71.2	70.17	71.4	70.7	69.4	69.0	70.0	66.7	66.8	67.1	68.1	69.0	67.9	68.0	119.1
RUN 486	315	79.3	76.8	73.8	76.1	80.4	82.6	76.1	77.0	79.0	77.7	77.0	76.8	74.0	72.1	72.2	72.8	127.5
TAPE A783	400	70.1	72.6	78.6	75.5	76.2	83.7	76.9	81.2	76.6	77.9	76.9	76.9	72.6	76.7	75.7	74.0	128.2
BAR 29.0 HG	500	75.8	77.6	88.9	84.8	86.3	95.5	88.9	92.9	88.8	89.4	88.7	88.6	79.9	88.1	85.9	84.0	139.7
(97827. N/M2)	630	86.3	81.1	85.0	87.3	88.6	95.0	94.3	95.6	98.0	95.2	88.9	89.2	93.1	80.5	81.5	82.2	143.2
TAMP 60. DEG F	800	92.9	88.2	92.0	92.8	84.0	95.9	99.4	94.9	92.7	93.5	90.9	94.0	92.8	91.0	82.9	87.1	144.0
(289. DEG K)	1000	91.4	86.0	87.0	90.12	91.6	94.9	97.3	95.1	94.8	92.1	89.9	90.3	88.0	88.3	95.3	82.3	142.9
TWEY 57. DEG F	1250	87.1	90.9	93.8	94.0	93.2	91.7	92.1	92.2	89.9	86.0	87.7	85.9	85.7	85.0	80.2	77.2	140.3
(287. DEG K)	1600	95.3	94.2	96.2	94.1	88.4	90.8	91.2	89.1	85.8	82.0	81.7	82.3	83.1	82.6	82.0	80.3	139.0
HACT 10.76 G4/M3	2000	102.7	99.0	94.4	92.13	92.5	92.0	87.4	88.4	86.1	85.0	83.4	81.4	84.0	83.3	80.6	77.2	139.3
(.01076 KG/M3)	2500	92.9	95.8	97.7	91.16	90.4	89.8	89.0	87.2	86.8	85.7	82.6	78.9	85.6	79.8	79.1	76.9	139.1
NFA 9431. RPM	3150	92.3	95.0	95.2	91.10	90.4	91.3	87.2	89.1	87.8	83.6	84.0	80.0	80.8	76.4	79.0	74.1	138.6
( 987. RAD/SEC)	4000	97.0	96.1	90.7	92.19	90.2	87.6	87.3	87.1	85.6	81.8	78.9	80.1	79.7	73.8	74.7	72.7	137.6
NFK 9422. RPM	5000	92.2	93.1	89.1	89.10	90.5	85.9	88.4	86.5	84.2	82.1	81.0	78.1	77.0	75.4	76.4	72.0	136.6
( 986. RAD/SEC)	6300	93.4	90.6	89.4	86.10	87.5	88.0	83.2	82.7	82.0	78.0	79.3	77.4	77.1	75.5	75.1	71.5	134.9
NFD 10628. RPM	8000	89.5	89.4	86.2	84.19	86.3	83.8	83.3	82.3	81.3	77.2	76.1	75.1	74.1	71.1	72.1	68.4	133.7
(1113. RAD/SEC)	10000	87.2	86.4	84.2	82.10	82.5	82.1	79.4	77.4	76.9	74.0	73.7	72.0	71.2	69.1	69.4	66.3	131.3
NO. OF BLADES 44	12500	83.1	82.9	80.7	78.6	79.0	78.8	77.2	75.9	73.8	72.4	70.6	69.0	68.6	65.8	66.1	64.2	129.5
	16000	80.7	79.9	77.5	75.4	77.1	75.4	74.1	71.7	71.4	71.3	66.7	66.8	66.7	65.9	64.7	64.7	128.7
	20000	76.4	75.5	74.2	72.12	75.8	71.5	71.7	67.4	69.4	72.0	64.3	64.5	65.5	66.4	64.1	65.4	129.0
OVERALL MEASURED		105.3	104.1	103.9	102.19	101.5	104.0	104.2	102.5	101.8	100.7	97.7	98.3	98.0	97.1	95.0	93.9	
OVERALL CALCULATED		106.1	104.7	104.1	102.14	101.4	103.6	103.9	102.6	102.1	100.2	97.5	98.1	98.1	96.0	92.9	92.4	151.5
PNDU		119.4	117.6	117.9	115.10	113.7	114.7	113.0	112.8	111.6	109.0	107.8	106.9	107.7	104.9	103.6	101.6	



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	79.0	80.4	77.3	79.6	78.7	78.5	78.0	78.7	78.6	77.3	74.2	73.5	75.6	77.0	75.4	77.7	127.2
63	79.2	80.9	78.1	79.0	82.2	80.6	78.3	74.2	75.6	72.8	74.5	72.7	76.6	79.3	79.1	79.0	128.6
RADIAL 100. FT. (30. M)	90	71.7	72.6	70.4	71.0	70.8	70.2	68.6	68.6	73.6	71.2	70.5	65.4	67.3	69.7	69.8	120.0
VEHICLE ATT	100	71.9	71.7	69.9	69.7	67.9	68.9	67.1	65.9	71.4	66.5	67.8	68.1	66.7	67.3	68.1	118.1
CONFIG T=0	125	68.1	67.9	66.0	67.2	66.5	66.9	66.5	65.4	72.3	64.9	64.8	65.2	67.5	67.6	69.0	117.4
LOC PTO	160	81.1	78.6	72.7	77.6	78.8	77.6	76.1	74.0	75.8	69.4	72.4	67.6	67.7	69.3	76.5	126.0
DATE 07/31/74	200	68.2	67.7	67.1	66.7	68.2	66.7	66.0	66.0	70.8	66.5	64.9	64.7	65.6	67.1	66.1	116.9
RUN 487	250	70.8	71.0	70.9	69.8	70.1	70.1	69.4	68.1	70.7	66.7	67.0	66.8	68.7	69.1	67.9	118.9
TAPE 4783	315	77.0	77.9	77.8	75.9	75.9	75.9	77.2	76.0	78.7	76.8	73.6	76.1	75.1	77.5	76.2	126.4
BAR 29.0 HG	400	72.1	73.5	77.8	76.5	79.9	82.8	75.8	77.1	73.5	76.5	73.7	72.6	76.8	76.2	73.6	127.0
(97827. N/M2)	500	76.9	81.6	89.0	85.8	91.8	95.7	88.7	90.7	83.4	86.4	84.8	88.8	87.2	83.9	78.8	139.3
TAMB 60. DEG F	630	87.6	87.4	80.2	90.1	89.1	93.9	91.4	98.3	95.1	90.8	86.3	93.1	96.3	83.4	76.1	143.1
(289. DEG K)	800	85.9	84.6	88.1	92.8	89.2	97.7	94.1	94.9	93.5	91.7	82.9	84.0	91.1	77.9	86.0	142.8
THET 57. DEG F	1000	92.2	87.1	89.1	86.9	89.1	89.1	91.0	90.2	90.9	88.7	87.1	86.0	85.9	79.2	80.4	138.5
(287. DEG K)	1250	87.2	87.8	87.8	89.9	91.0	86.9	86.0	87.2	86.0	86.6	85.6	84.7	82.9	80.3	82.1	136.7
MACT 10.76 G4/43	1600	93.4	92.0	91.9	92.7	91.0	86.7	90.2	90.0	87.1	87.7	82.7	83.9	85.1	82.4	83.2	138.4
(.01076 KG/43)	2000	98.4	96.3	94.4	91.0	89.5	90.1	88.6	90.5	86.0	84.1	83.0	80.0	85.3	81.4	80.3	138.5
NFA 9504. RPM	2500	91.9	93.8	95.7	90.7	88.7	89.9	87.1	86.9	87.8	86.5	84.8	80.7	82.8	80.0	80.8	138.2
(995. RAD/SEC)	3150	89.4	90.1	91.1	90.7	85.0	86.9	86.3	86.1	84.8	81.6	86.7	81.2	79.8	77.4	77.3	135.7
NFK 9495. RPM	4000	92.8	90.7	91.0	88.6	89.0	87.9	85.0	84.9	83.7	80.8	76.6	77.7	78.6	74.0	73.9	135.6
(994. RAD/SEC)	5000	88.5	90.0	87.3	87.2	90.2	84.8	86.3	84.3	84.3	80.9	81.0	77.2	77.0	75.4	76.3	135.3
NFD 10628. RPM	6300	87.4	90.3	87.4	85.9	86.5	85.1	82.4	81.4	80.1	77.9	77.6	76.2	80.1	75.3	74.3	133.7
(1113. RAD/SEC)	8000	86.1	87.2	86.0	84.0	84.1	82.2	82.6	81.5	79.3	77.1	75.8	74.1	76.9	71.5	72.0	132.6
NO. OF BLADES 44	12500	80.9	81.6	77.9	76.8	77.2	77.8	75.2	74.1	72.9	71.5	69.6	67.7	67.7	63.9	65.9	129.9
16000	76.7	77.5	74.4	73.4	73.9	74.5	71.0	70.9	70.5	73.2	66.6	66.8	66.4	63.7	64.5	60.6	127.2
20000	72.6	72.1	69.9	70.0	68.7	70.1	66.6	65.7	67.3	72.2	62.0	64.2	63.5	61.8	63.5	60.5	126.3
OVERALL MEASURED	102.4	102.1	102.1	102.0	101.3	103.0	100.3	102.1	100.1	98.9	96.9	96.1	98.7	96.2	92.9	93.4	
OVERALL CALCULATED	102.8	102.1	101.9	101.0	100.7	102.7	100.2	102.2	100.4	98.9	96.5	96.2	98.6	95.0	91.7	90.7	150.0
RNDR	116.0	115.2	115.5	113.5	112.7	112.7	110.9	111.5	110.5	109.0	107.1	105.8	106.1	104.5	103.9	100.5	

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	78.9	80.6	77.4	79.6	78.7	78.8	77.8	79.1	78.5	77.4	75.5	74.3	76.5	75.8	75.7	76.9	127.3
63	77.9	77.9	77.0	75.0	82.2	79.9	72.9	72.3	76.9	82.5	74.0	73.7	71.9	74.1	77.9	77.2	127.4
RADIAL 100. FT. (30. M)	80	72.7	72.9	71.4	69.7	70.6	69.6	69.9	73.6	72.5	71.2	67.5	67.3	70.5	70.7	70.7	120.6
VEHICLE ATT	100	70.2	68.8	68.7	68.1	66.1	67.9	65.2	67.3	70.6	66.8	67.8	66.2	67.0	67.2	67.8	117.6
CONFIG T=0	125	68.2	65.3	66.5	66.0	67.4	67.1	65.4	66.4	70.1	65.0	66.0	65.3	66.9	67.1	70.2	117.2
LOC PTO	160	70.1	70.9	72.1	70.9	70.9	77.6	71.4	80.0	73.8	69.6	72.6	68.8	67.8	73.1	71.7	123.8
DATE 07/31/74	200	75.2	74.8	74.8	73.7	73.2	79.0	74.1	82.1	73.9	69.8	72.7	70.0	67.7	73.0	72.3	125.3
RUN 488	250	100.4	99.0	97.9	97.0	94.0	91.9	89.3	87.4	82.1	80.7	73.9	78.2	75.8	79.1	81.2	139.9
TAPF A7R3	315	94.3	93.2	93.2	91.9	89.0	86.7	84.1	82.0	77.8	75.8	71.8	73.7	74.9	75.2	77.1	134.9
EAR 29.0 HG	400	74.1	74.0	74.9	74.7	73.1	72.5	72.1	67.9	70.6	68.5	69.6	71.9	73.7	70.9	70.7	121.7
(97827. N/M2)	500	93.8	89.9	86.7	82.7	84.2	89.8	87.7	85.8	81.7	81.6	82.4	77.6	77.6	82.6	80.9	134.5
TAMB 81. DEG F	630	90.6	87.3	83.4	80.7	80.7	85.3	84.4	82.4	79.4	78.3	79.0	74.1	74.3	78.3	78.5	131.1
(289. DEG K)	800	88.0	85.2	85.9	83.1	83.3	80.0	82.0	81.1	79.0	76.9	73.8	74.7	74.6	77.1	72.8	130.0
TWET 58. DEG F	1000	88.3	86.4	80.3	78.1	79.4	75.8	75.5	77.2	75.1	74.0	74.0	74.1	75.2	74.2	73.2	126.8
(207. DEG K)	1250	87.3	88.9	85.0	81.9	80.0	79.0	77.3	78.3	76.7	76.7	76.9	75.7	76.0	74.8	76.1	129.2
HACT11.16 GM/M3	1600	85.4	84.1	82.2	82.0	77.0	76.7	77.2	78.4	75.9	74.7	75.7	75.9	76.1	74.9	74.8	127.8
(.01116 KG/M3)	2000	89.4	81.8	82.4	85.3	81.4	81.1	79.7	81.4	79.3	78.0	76.4	77.4	78.1	78.3	78.2	130.4
NFA10673. RPM	2500	85.8	82.0	84.9	84.8	81.2	85.5	81.9	79.2	78.6	76.9	76.6	77.7	76.7	77.8	78.0	131.1
(1117. RAD/SEC)	3150	89.1	81.1	81.2	81.1	79.4	78.8	80.1	81.2	76.8	75.7	76.8	78.2	77.2	76.2	75.8	129.2
NFK10652. RPM	4000	85.1	84.8	82.9	85.0	82.0	80.9	78.2	78.4	79.6	77.8	76.8	77.7	80.6	76.1	77.0	130.8
(1115. RAD/SEC)	5000	86.5	82.5	82.1	82.2	81.4	79.2	79.3	77.6	77.2	77.0	79.0	78.4	79.1	76.2	78.3	130.0
NFD10628. RPM	6300	84.2	80.6	81.2	79.5	79.7	80.3	76.5	75.3	75.3	75.0	77.0	77.0	77.1	76.3	77.3	129.0
(1113. RAD/SEC)	8000	79.2	80.2	80.3	78.1	80.2	77.0	81.2	80.4	79.0	79.1	74.8	79.3	77.0	73.2	77.2	130.7
NO. OF BLADES 44	12500	75.9	72.9	72.6	71.0	71.8	71.7	70.5	69.9	69.8	69.7	69.7	70.0	70.8	66.0	68.9	124.4
OVERALL MEASURED	16000	71.5	69.5	69.6	68.4	68.8	68.6	67.9	67.7	68.3	72.7	66.2	68.4	69.4	64.8	66.6	124.7
OVERALL CALCULATED	20000	68.4	65.4	64.3	64.1	64.5	65.2	64.5	63.4	67.3	72.1	63.0	64.0	65.3	63.2	65.0	124.9
PNDR	104.0	102.0	101.1	100.0	98.3	97.0	96.4	95.3	92.9	93.1	92.1	91.2	92.1	92.0	93.2	92.1	
	103.6	101.7	100.6	99.6	97.3	96.9	95.0	94.2	91.4	90.9	89.7	89.5	89.6	89.9	90.3	87.7	144.9
	112.9	110.1	109.2	108.7	106.7	107.6	105.4	105.4	103.7	102.3	102.0	102.3	103.2	101.7	102.2	98.7	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	78.7	80.3	77.2	78.8	79.1	78.6	77.8	77.7	78.9	76.7	74.6	73.1	75.9	76.8	75.6	76.9	127.0
63	79.3	80.6	77.0	77.8	82.4	80.1	77.3	74.1	76.8	82.8	74.9	74.0	77.0	78.4	77.6	79.0	128.4
RADIAL 100. FT. (30. M)	80	71.8	72.4	70.7	69.6	67.7	68.8	73.5	70.6	69.3	65.7	66.8	69.6	68.8	70.1	68.3	119.6
VEHICLE ATT	125	68.5	66.9	65.0	66.2	66.5	66.1	66.2	66.5	71.3	64.2	64.1	65.0	67.4	67.3	68.4	117.0
CONFIG T=0	160	81.1	77.9	71.6	76.8	79.0	77.9	76.1	75.8	77.8	58.7	72.8	68.8	77.0	79.9	76.1	126.2
LOC PTD	200	67.1	66.8	65.7	65.7	67.3	66.9	66.0	65.2	70.1	65.8	64.0	64.2	66.1	66.3	65.9	116.4
DATE 07/31/74	250	70.4	70.1	69.8	69.10	69.3	68.8	68.5	67.9	70.9	65.9	65.7	65.9	68.3	69.0	68.0	118.3
RUN 489	315	72.2	75.8	74.9	74.8	78.0	76.9	80.1	80.3	81.0	76.8	68.6	77.1	78.2	79.4	78.1	128.1
TAPP 4783	400	69.3	72.9	76.6	74.5	80.0	80.6	74.2	76.6	75.0	74.6	71.8	70.7	78.2	75.1	72.9	126.1
BAR 29.0 HG	500	76.1	80.4	87.9	83.7	91.9	93.7	86.1	88.7	83.8	87.5	82.4	80.7	89.3	86.0	82.1	137.8
(97827. N/M2)	630	86.7	89.3	82.2	91.5	88.7	92.1	91.8	97.5	93.4	90.2	85.0	93.3	94.4	81.5	78.4	142.2
TAMB 62. DEG F	900	80.9	85.6	89.9	92.1	89.1	95.6	92.4	94.9	93.0	94.9	92.1	82.9	86.0	90.4	78.3	142.2
(290. DEG K)	1000	87.2	84.2	88.1	88.7	86.2	87.9	89.2	88.4	89.2	86.0	87.0	85.4	84.4	80.3	81.4	137.0
TWET 59. DEG F	1250	85.0	87.0	87.8	90.0	92.4	86.0	86.3	88.1	87.1	85.9	85.8	87.3	81.2	83.4	85.0	137.4
(288. DEG K)	1600	90.1	90.1	89.2	92.9	93.4	86.8	91.5	90.9	88.9	86.7	79.8	85.0	85.1	84.4	84.1	139.1
HACT 11.73 54/M3	2000	96.4	95.0	93.2	91.5	88.4	92.0	89.4	88.6	84.4	84.1	81.2	79.5	83.4	80.6	82.5	138.1
(.01173 KG/M3)	2500	92.9	90.6	92.7	89.7	88.8	90.4	86.9	82.7	82.9	82.8	81.9	78.9	80.9	78.8	79.8	136.4
NFA 9505. RPM	3150	88.3	88.1	89.3	88.2	86.0	86.0	85.4	86.1	83.4	79.8	79.9	80.5	79.6	76.2	76.1	134.6
(995. RAD/SEC)	4000	91.8	90.8	90.7	87.9	89.0	85.5	84.2	83.9	84.9	80.0	76.7	76.7	78.0	72.9	73.7	135.1
NFK 9482. RPM	3000	88.3	90.3	89.2	85.0	89.2	83.2	85.3	84.3	94.4	80.1	79.3	77.1	76.0	75.2	76.1	134.7
(993. RAD/SEC)	6300	88.3	88.3	86.3	84.0	85.4	84.7	81.3	80.5	79.4	77.1	77.3	76.4	79.6	75.2	75.4	132.7
FD10628. RPM	8000	85.3	86.1	84.3	81.9	84.1	81.1	81.4	80.3	79.5	76.9	74.9	75.0	76.1	71.4	72.3	131.7
(1113. RAD/SEC)	10000	83.2	83.7	80.9	78.9	80.4	79.8	78.4	76.2	75.2	73.0	72.9	70.2	70.2	68.2	69.2	129.3
NO. OF BLADES 44	12500	79.9	79.7	77.9	75.5	76.9	76.5	74.1	73.9	72.8	71.4	68.7	67.8	67.7	63.9	65.9	127.2
	16000	76.3	76.2	73.2	71.1	72.7	72.2	71.4	69.4	69.6	71.1	65.1	65.6	66.3	62.7	65.6	125.9
	20000	73.2	72.1	69.1	67.0	69.2	67.8	66.3	65.2	67.9	70.8	61.7	62.3	62.2	62.0	64.2	125.5
OVERALL MEASURED	101.1	101.1	100.8	101.1	100.9	101.7	100.1	101.8	99.1	98.7	95.9	95.7	98.2	94.9	93.3	91.7	
OVERALL CALCULATED	101.3	100.9	100.7	100.6	100.9	101.4	99.7	101.6	99.3	98.6	95.8	96.3	97.6	94.7	92.3	89.6	149.4
PND6	114.5	114.0	113.7	112.2	112.7	112.4	110.6	110.8	109.4	107.9	105.4	105.7	107.0	104.2	103.6	99.7	

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	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	78.6	79.6	77.7	78.16	79.7	78.4	76.9	78.8	78.8	76.5	74.5	75.7	79.9	79.9	79.7	79.7	128.1
63	74.1	74.0	75.8	73.0	82.3	79.9	71.3	73.9	82.8	72.0	70.8	72.7	72.7	73.8	73.9	74.9	126.7
RADIAL 100. FT. (30. M)	80	70.8	71.4	69.7	69.6	70.3	69.8	69.7	73.3	70.5	69.5	65.7	66.6	68.7	68.7	68.8	119.7
VEHICLE ATT CONFIG T-0	125	70.3	69.2	67.3	68.2	68.2	67.9	66.5	67.6	71.9	65.7	65.1	66.2	68.0	67.6	68.4	117.9
LOC PTO	160	74.0	67.7	65.6	70.8	69.9	69.8	72.0	73.0	74.5	64.4	68.0	71.5	72.7	73.9	74.9	121.3
DATE 07/31/74	200	68.9	69.1	68.8	67.7	67.9	67.6	67.1	67.2	69.9	65.8	63.6	63.7	64.7	65.9	66.2	116.8
RUN 490	250	74.3	74.1	74.1	73.11	73.0	72.0	71.1	72.0	70.8	66.0	66.9	67.7	68.0	69.2	67.9	120.4
TAPE A783	315	74.2	75.9	76.9	74.0	76.0	75.0	76.3	79.2	71.8	69.9	73.0	77.0	74.5	77.3	70.9	125.4
BAR 28.9 HG	400	76.0	72.7	76.9	81.08	86.0	82.8	75.8	76.1	74.5	76.5	77.7	79.7	71.6	76.9	71.0	129.0
(97692. N/M2)	500	79.0	74.7	78.9	84.16	90.1	88.9	84.0	85.8	85.6	84.5	83.7	84.8	79.6	80.0	77.7	135.0
TAMR 62. DEG F	600	83.0	85.2	84.2	91.11	96.6	98.3	97.6	97.3	99.3	95.9	95.3	94.4	93.0	87.6	90.2	145.9
(290. DEG K)	800	93.0	92.7	93.9	93.11	98.1	95.0	97.1	92.0	97.8	93.6	96.1	92.7	97.7	92.9	81.9	145.4
THET 58. DEG F	1000	87.3	84.1	91.1	93.18	97.2	102.2	100.5	96.4	95.1	92.0	90.1	94.3	92.0	88.2	82.5	146.2
(288. DEG K)	1250	96.1	101.9	106.9	105.13	102.3	100.7	98.0	94.1	96.7	98.0	94.9	97.1	88.7	87.0	84.0	149.3
MACT 11.37 G4/M3	1600	99.1	99.8	99.2	96.19	98.2	96.8	96.2	93.3	93.0	91.0	89.8	89.9	87.0	83.3	87.3	144.3
(.01137 KG/M3)	2000	97.6	93.3	104.4	96.13	98.6	97.4	94.4	95.3	91.4	91.0	86.9	88.2	86.3	85.5	84.3	145.2
NFA 9010. RPM	2500	95.8	98.9	101.0	97.7	97.1	96.6	96.4	95.1	90.9	89.9	87.4	86.7	88.9	82.8	83.8	144.6
(943. RAD/SEC)	3150	96.1	97.1	99.0	96.19	95.3	96.0	95.2	95.3	91.0	87.8	87.9	85.2	86.1	82.1	82.0	143.6
NFX 8988. RPM	4000	96.0	96.8	98.8	93.0	97.2	95.7	91.0	93.0	92.8	88.7	83.6	83.7	84.7	79.2	76.6	143.0
(941. RAD/SEC)	5000	93.5	97.2	95.3	93.0	95.4	93.2	94.4	92.5	90.2	89.2	87.4	84.1	83.0	80.3	79.5	142.2
NFD 10628. RPM	6300	93.5	94.4	93.4	92.11	93.4	94.4	90.8	89.6	89.0	85.1	83.4	80.2	81.3	77.6	77.4	140.8
(1113. RAD/SEC)	8000	91.5	93.4	92.3	90.0	91.2	91.0	91.7	89.2	86.8	84.8	82.1	79.0	77.8	74.0	74.3	139.9
NO. OF BLADES 44	10000	90.4	91.2	89.1	87.19	89.2	88.9	86.1	86.3	84.0	81.0	80.3	76.1	74.8	71.9	72.2	137.7
	12500	86.9	88.0	84.8	83.4	86.0	85.5	84.0	83.7	80.5	79.3	77.0	72.5	70.8	67.9	67.7	135.8
	16000	82.5	84.4	81.4	80.5	82.6	81.1	80.6	80.6	77.3	76.2	70.7	69.4	67.6	66.8	64.4	134.2
	20000	78.2	79.3	77.2	77.0	79.1	77.1	76.3	75.4	75.2	73.2	67.3	66.3	64.9	67.1	63.4	133.0
OVERALL MEASURED	106.4	107.9	110.9	107.8	108.8	108.8	106.4	105.0	105.0	102.9	101.8	101.8	101.8	101.8	97.9	96.2	155.9
OVERALL CALCULATED	106.1	107.8	111.1	108.3	108.5	108.4	107.1	105.2	105.3	103.3	102.1	102.1	101.3	97.2	95.2	96.3	
PNDH	118.4	119.7	122.4	119.12	120.2	119.4	118.2	117.6	115.9	113.5	111.9	111.6	110.8	107.0	106.2	105.8	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	78.7	80.2	77.6	78.6	78.9	78.4	77.7	77.9	77.6	76.5	74.3	73.5	76.4	76.7	75.8	78.0	126.9
	63	78.4	79.9	77.9	77.7	83.1	80.8	75.0	74.9	74.9	72.8	74.6	73.0	78.1	78.3	76.1	79.1	128.4
RADIAL 100. FT. (30. M)	80	72.6	73.7	71.8	70.6	71.7	70.5	69.6	68.8	72.3	70.4	70.6	67.6	71.6	69.5	70.8	71.9	120.5
VEHICLE ATT	100	72.0	70.9	70.1	69.6	69.1	68.8	68.2	66.2	69.7	65.7	67.7	70.1	70.9	67.9	69.2	73.3	119.0
CONFIG T=0	125	69.5	68.0	67.0	68.0	67.2	67.2	67.3	66.6	69.2	64.8	64.8	68.2	74.1	67.2	69.3	74.4	118.9
LOC PTO	160	82.0	77.0	73.0	77.8	79.1	75.5	74.9	76.8	76.7	70.5	71.8	69.9	78.8	78.9	76.3	77.1	126.1
DATE 07/31/74	200	69.0	67.7	67.2	66.8	68.2	67.8	67.0	66.2	69.6	66.6	64.7	68.1	72.9	66.9	67.0	74.0	120.5
RUN 491	250	72.4	71.9	72.2	70.8	71.3	72.0	70.5	69.2	69.7	66.6	67.8	70.0	73.6	69.0	68.3	73.1	120.5
TAPE A783	315	79.1	75.9	73.8	77.0	82.0	83.5	77.2	79.2	79.7	77.8	78.9	78.9	78.7	72.1	74.1	75.2	128.9
BAR 28.9 HG	400	71.3	72.7	79.0	76.6	74.8	83.8	78.0	81.3	77.9	76.8	78.0	76.7	76.7	76.0	75.2	74.9	128.5
(97692. N/M2)	500	77.0	79.5	90.0	86.9	84.0	94.7	90.2	92.9	89.5	88.6	89.7	87.8	80.9	86.7	86.0	84.9	139.6
TAMB 62. DEG F	630	82.8	80.1	84.1	83.3	91.7	96.2	96.6	96.4	98.2	96.9	92.3	90.4	93.3	81.2	83.5	85.4	144.4
(290. DEG K)	800	94.1	81.7	94.0	92.8	89.0	99.7	100.0	95.0	90.6	95.6	88.9	93.0	94.0	91.2	84.7	85.1	144.4
TWET 58. DEG F	1000	92.6	89.3	87.0	90.3	92.3	93.9	97.2	95.1	95.7	91.9	91.0	92.0	89.1	89.1	87.4	82.6	143.2
(288. DEG K)	1250	89.1	93.9	94.7	94.0	92.0	92.9	91.2	92.1	89.8	82.6	87.8	86.8	82.7	85.0	83.1	81.1	140.3
HACT 11.37 G4/M3	1600	96.2	95.9	96.9	96.1	90.5	90.9	91.2	92.2	87.0	85.9	84.9	85.2	85.8	81.1	82.3	80.5	140.5
(.01137 KG/M3)	2000	102.7	99.1	96.4	93.5	92.6	93.1	88.4	91.4	88.3	86.2	84.1	83.4	89.2	82.6	80.6	79.7	140.5
NFA 9436 RPM	2500	94.3	96.7	99.6	92.4	91.2	90.6	89.0	87.0	85.8	83.8	82.7	81.0	83.5	80.9	80.1	79.3	139.8
(988. RAD/SEC)	3150	94.4	94.9	94.2	90.0	90.4	88.9	87.2	90.2	88.0	86.8	83.8	82.2	83.8	78.3	77.5	78.5	138.6
NFK 9413 RPM	4000	96.4	95.7	92.9	92.9	90.0	87.6	89.0	88.1	87.8	83.5	78.7	80.8	80.8	74.1	75.2	76.9	138.3
(986. RAD/SEC)	5000	93.5	93.0	92.1	90.1	91.6	85.3	88.6	86.3	86.0	83.9	82.1	80.1	81.7	76.3	77.4	75.4	137.5
NFD 10628 RPM	6300	92.6	91.1	92.2	88.2	87.4	88.3	84.5	83.3	82.2	79.1	79.4	79.2	82.0	75.4	75.2	78.5	136.2
(1113. RAD/SEC)	8000	90.7	89.4	88.1	86.1	87.4	84.1	85.1	83.2	81.3	78.8	77.0	78.0	81.2	71.1	72.3	79.6	135.0
NO. OF BLADES 44	10000	88.2	88.0	85.1	82.0	83.0	82.0	80.3	80.2	77.9	75.1	75.0	76.8	78.8	69.3	70.2	75.3	132.6
	12500	84.9	93.5	81.9	78.5	80.0	78.7	78.3	76.8	74.4	73.3	71.5	76.8	80.4	65.0	66.1	80.2	131.7
	16000	80.8	80.3	77.6	76.6	77.9	75.6	75.0	72.9	71.2	72.0	67.3	77.7	80.5	62.8	64.5	78.7	131.8
	20000	77.5	75.0	74.0	72.3	75.4	72.2	72.2	67.5	69.0	72.7	63.9	77.1	81.9	61.4	62.4	77.3	133.4
OVERALL MEASURED		106.4	105.1	105.2	103.0	102.3	104.3	104.4	103.4	102.7	101.6	97.7	99.0	100.7	96.1	94.9	96.4	
OVERALL CALCULATED		106.5	105.1	105.4	103.0	102.0	103.7	104.5	103.2	102.4	101.3	98.4	98.7	99.4	96.0	94.0	94.0	152.2
PMDR		119.8	117.8	119.0	115.4	114.2	114.3	113.6	113.7	112.0	110.3	108.2	107.6	108.9	105.0	104.2	104.4	

	MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)																PWL
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)
50	78.9	80.6	77.8	78.4	78.8	78.4	77.9	79.1	78.5	77.4	74.1	73.5	76.5	75.6	75.4	76.6	127.1
63	79.4	82.1	79.1	78.8	83.1	80.0	77.2	74.3	76.7	81.7	74.2	74.0	78.8	78.2	79.0	80.1	128.6
RADIAL 100. FT. (30. M)	80	72.7	72.6	71.5	70.14	70.8	70.3	68.6	68.7	73.3	71.5	69.8	66.4	67.5	69.7	70.9	120.1
VEHICLE ATT CONFIG T-0	100	71.9	71.2	69.9	68.17	68.0	68.7	67.2	66.1	70.7	65.8	68.4	68.8	67.8	67.1	69.0	118.2
LOC PTO	125	68.5	67.1	66.1	66.2	66.4	67.2	66.4	66.4	70.0	65.0	64.5	65.3	67.1	67.5	70.2	117.1
DATE 07/31/74	160	80.9	77.1	67.9	73.15	77.0	80.9	78.9	78.3	74.4	71.5	75.4	72.9	73.7	77.9	74.6	126.3
RUN 492	200	68.2	67.0	66.8	66.17	67.8	67.9	67.0	67.0	69.9	66.7	64.3	65.0	66.1	67.0	66.8	117.0
TAPE A783	250	71.2	70.0	70.1	70.0	70.3	69.8	69.0	69.2	70.0	67.0	66.5	66.3	69.2	69.0	69.1	118.9
BAR 28.9 MG (97692. N/M2)	315	71.2	72.9	73.2	77.18	80.3	81.7	82.1	84.3	82.9	79.2	70.4	76.1	77.1	79.8	80.1	130.2
TMR 62. DEG F (290. DEG K)	400	69.9	72.8	75.9	76.17	78.9	77.9	75.1	78.0	75.9	76.8	68.7	68.9	76.8	74.0	72.2	125.7
TWET 58. DEG F (288. DEG K)	500	77.9	81.6	85.6	88.15	92.0	91.4	86.8	91.8	87.6	90.7	78.3	75.8	89.7	85.8	80.7	138.5
NFA 9602. RPM (1005. RAD/SEC)	630	83.5	79.1	88.1	89.10	91.6	91.0	96.3	97.7	90.2	93.3	91.3	95.2	93.0	82.3	83.2	143.1
NFK 9579. RPM (1003. RAD/SEC)	800	84.1	84.7	88.1	87.16	89.1	96.0	91.0	93.1	91.9	93.8	90.6	88.2	85.0	87.9	78.9	141.2
NFD10628. RPM (1113. RAD/SEC)	1000	89.5	87.3	84.6	85.12	89.1	88.1	90.2	90.5	87.9	86.1	87.1	89.4	80.1	79.3	80.3	137.6
NO. OF BLADES 44	1250	84.1	90.0	84.2	91.10	91.0	89.8	88.1	90.3	86.7	87.3	85.8	84.9	82.6	82.2	79.2	137.8
	1600	89.4	92.1	90.2	90.11	92.3	86.8	92.3	91.2	89.1	87.9	84.0	86.1	85.1	83.0	79.3	139.1
	2000	94.6	91.4	89.3	88.13	89.3	91.0	86.7	85.6	83.2	81.4	80.2	79.6	82.7	81.5	82.2	136.3
	2500	91.9	90.5	91.7	88.19	90.1	91.5	86.3	85.0	83.8	81.8	80.7	78.7	80.8	79.2	78.8	136.6
	3150	90.2	89.0	92.2	88.19	88.3	87.0	85.3	85.4	82.0	80.9	80.3	80.2	78.9	75.2	76.9	135.4
	4000	92.1	91.9	89.8	87.17	88.8	87.9	82.9	84.0	83.6	80.7	77.1	77.8	77.7	72.7	73.7	135.1
	5000	89.3	91.3	88.2	87.11	88.5	85.0	85.3	83.3	82.2	80.1	79.2	77.0	77.2	75.5	76.3	134.6
	6300	87.6	87.1	87.2	83.14	84.2	84.1	81.4	80.4	79.1	77.4	77.2	75.3	77.1	74.3	75.3	132.2
	8000	85.2	85.9	84.1	82.12	83.6	81.2	81.7	80.3	79.0	77.0	75.2	74.2	72.9	70.1	73.1	131.5
	10000	83.0	83.9	81.1	79.10	80.3	78.9	77.2	75.3	76.0	72.7	72.2	70.8	69.8	68.0	69.1	129.0
	12500	79.8	79.7	77.8	74.6	75.8	75.8	74.0	72.6	73.4	71.7	69.5	67.6	68.4	65.8	66.0	127.0
	16000	76.7	75.5	73.4	71.5	72.7	72.2	70.6	69.5	72.3	72.6	65.5	66.6	67.6	66.4	65.8	126.5
	20000	73.6	70.2	69.0	67.12	69.3	67.1	66.4	65.3	71.2	72.1	64.0	65.9	65.0	67.4	64.1	126.7
OVERALL MEASURED	101.2	100.8	100.1	99.8	101.3	101.0	101.4	102.1	98.7	99.1	97.0	98.2	96.8	94.3	93.2	92.3	
OVERALL CALCULATED	100.8	100.6	100.1	99.5	101.1	101.6	100.8	101.8	98.3	99.3	96.4	97.9	96.8	93.6	91.5	88.9	149.4
PND8	113.9	113.9	113.7	111.9	112.9	113.1	111.1	111.1	108.7	107.9	105.4	106.7	106.1	103.5	103.2	99.0	

REPRODUCIBILITY OF THIS  
ORIGINAL DATA IS POOR

MUDEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
RADIAL 100. FT.	50	78.6	81.5	77.8	79.15	79.0	79.8	77.5	79.6	78.7	77.3	75.3	74.5	76.4	76.9	75.6	76.8	127.5
( 30. M)	63	75.9	75.6	75.7	74.0	82.0	81.2	73.0	71.9	74.6	81.9	74.8	73.8	72.9	75.2	77.8	78.1	127.3
VEHICLE ATT	80	71.8	72.6	70.7	69.16	70.6	71.5	69.8	68.8	72.5	72.4	71.6	66.5	67.4	70.7	70.7	71.7	120.5
CONFIG T-0	100	70.1	70.0	69.1	68.5	66.2	68.2	66.0	66.7	68.9	66.6	67.8	67.9	68.0	67.9	68.1	70.5	117.7
LOC PTO	125	67.5	65.1	66.0	66.2	67.2	67.3	65.5	65.3	69.0	64.9	64.9	65.0	68.3	68.4	70.3	71.3	117.2
DATE 07/31/74	160	68.3	72.5	73.9	70.19	72.1	77.9	73.8	79.9	74.7	69.6	68.1	67.1	68.9	73.9	74.7	73.0	124.2
RUN 493	200	77.0	78.8	77.9	75.15	76.0	80.1	76.2	81.3	76.0	70.8	69.5	66.9	68.7	73.9	75.0	73.2	126.0
TAPP A783	250	79.5	78.9	78.0	77.11	76.2	74.7	73.0	72.2	71.7	68.7	68.9	68.1	70.1	70.9	70.6	70.4	122.9
BAR 28.9 HG	315	80.0	79.9	80.0	80.1	80.3	79.8	77.2	76.9	76.0	73.7	74.6	74.9	74.8	73.0	72.8	72.4	126.9
(97692. N/M2)	400	82.0	81.7	81.8	80.10	80.9	79.7	78.3	78.2	76.5	76.6	75.7	75.7	77.0	74.0	73.7	73.1	127.8
TAMB 62. DEG F	500	73.9	76.9	75.9	74.17	77.1	74.7	73.8	73.0	72.6	74.6	73.5	71.6	75.5	77.9	74.7	73.9	124.9
(290. DEG K)	630	75.5	76.0	78.3	77.14	76.1	75.2	74.3	74.6	74.2	73.1	74.2	73.2	74.0	74.4	74.1	72.8	124.9
TWET 58. DEG F	800	77.0	77.1	78.8	78.17	76.2	76.9	76.2	74.9	73.8	73.5	73.5	73.0	73.9	72.1	72.1	71.1	125.2
(288. DEG K)	1000	77.4	76.0	78.0	76.11	74.3	74.7	74.1	74.5	74.0	73.9	73.7	74.2	72.8	72.9	72.3	71.3	124.5
HACT 11.37 G4/M3	1250	79.2	78.1	79.8	78.8	78.1	77.8	76.3	75.3	74.8	74.9	74.5	74.7	74.8	74.8	74.3	71.3	126.3
(.01137 KG/M3)	1600	77.3	77.2	77.1	78.12	77.4	75.7	76.1	76.4	74.8	73.9	74.0	75.1	74.0	74.0	73.9	70.5	125.8
NFA10674. RPM	2000	75.2	76.3	78.2	80.13	78.4	76.0	76.4	76.6	74.8	75.2	75.2	76.3	76.2	76.6	77.2	71.6	127.1
(1118. RAD/SEC)	2500	74.7	76.7	78.7	80.19	78.9	77.8	77.0	75.2	75.7	75.7	74.7	76.8	76.7	77.8	77.9	72.2	127.7
NFK10648. RPM	3150	74.1	75.8	79.2	79.11	78.2	76.9	76.3	77.3	75.6	73.8	75.8	78.2	75.7	76.4	77.0	71.4	127.5
(1115. RAD/SEC)	4000	75.1	76.8	79.2	79.17	81.1	77.6	75.1	75.3	76.7	76.6	73.5	76.6	80.0	76.2	76.8	74.0	128.4
NFD10628. RPM	5000	74.0	76.2	77.3	79.15	78.3	76.7	76.5	75.4	76.8	77.2	79.2	78.2	76.2	76.5	77.4	71.5	128.4
(1113. RAD/SEC)	6300	74.2	75.0	78.4	77.12	78.4	76.8	74.1	74.5	73.9	74.1	77.1	75.2	76.3	75.2	77.1	71.6	127.4
NO. OF BLADES 44	8000	73.0	74.9	76.9	77.11	79.6	76.7	78.4	81.8	75.8	78.8	75.1	76.8	76.1	74.1	77.4	70.5	129.8
OVERALL MEASURED	10000	70.2	72.0	72.2	72.18	74.0	73.8	73.1	72.2	71.7	71.0	71.9	72.9	72.0	71.0	72.0	67.5	129.2
OVERALL CALCULATED	12500	67.9	68.4	69.6	69.18	71.1	70.7	69.8	70.2	69.4	69.4	68.7	69.8	69.0	67.0	67.8	64.9	123.6
	16000	65.5	66.1	66.7	66.14	67.9	68.2	67.6	66.6	67.5	71.3	66.3	69.7	69.3	65.5	67.5	65.0	124.2
	20000	63.3	63.9	63.1	64.0	64.2	64.9	65.2	63.7	65.9	71.8	62.9	64.3	64.3	62.4	64.1	65.5	124.6
PMDH	101.0	102.2	103.8	104.11	104.5	102.6	101.4	101.9	101.1	100.8	101.2	101.5	102.3	101.1	101.5	98.3		140.4

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC: DATE - MONTH 8 DAY 26 HR. 23.5

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (G.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.7	80.5	77.4	78.16	79.0	78.4	78.1	78.6	77.6	76.4	74.2	73.7	75.6	76.7	75.9	76.9	126.9	
63	79.0	81.1	79.0	78.0	83.0	80.7	78.2	74.4	75.8	81.9	72.7	71.8	76.7	79.3	78.0	77.9	128.4	
RADIAL 100. FT. (30. M)	80	72.8	73.3	71.6	70.16	71.9	71.4	68.6	68.7	71.4	71.2	70.3	68.5	67.6	69.6	70.5	70.6	120.0
VEHICLE ATT	100	70.8	71.7	70.9	68.9	68.0	68.7	67.3	66.1	65.8	66.6	68.7	68.1	67.8	68.2	68.2	69.3	117.9
CONFIG T=0	123	68.5	67.1	66.0	66.9	66.3	68.0	67.3	65.4	65.1	65.2	66.0	67.1	67.3	69.4	69.6	116.7	
LOC PTD	160	81.9	74.6	68.9	73.7	74.0	82.7	81.2	78.3	73.9	58.5	75.7	76.0	73.0	79.2	77.3	78.0	127.4
DATE 07/31/74	200	68.2	66.8	66.8	67.0	68.0	69.0	68.2	67.2	65.9	65.9	64.9	65.8	66.8	67.9	66.9	67.2	117.0
RUN 494	250	71.4	71.0	71.0	69.8	70.0	70.8	69.2	68.0	66.0	65.9	66.7	67.0	69.0	69.1	69.2	68.4	118.5
TAPE A787	315	81.0	81.0	79.3	75.16	75.9	76.8	76.0	77.0	73.5	71.5	74.4	76.1	74.9	75.9	77.0	71.1	125.8
BAR 28.9 MS	400	70.3	75.5	75.7	77.0	77.3	76.8	76.1	76.8	74.7	76.8	70.8	70.7	76.8	74.7	72.9	70.9	125.5
(97692. N/M2)	500	75.0	86.8	85.7	89.16	90.1	89.4	88.1	90.9	88.6	90.7	81.7	78.6	88.7	86.0	80.6	80.8	138.1
TAHR 64. DEG F	630	85.3	87.2	83.2	93.0	93.3	91.3	96.3	98.0	92.2	94.2	92.1	95.4	94.1	80.5	83.4	85.6	143.9
(291. DEG K)	800	87.9	84.1	92.0	87.5	86.3	94.0	91.1	91.2	90.6	92.6	90.9	85.1	88.7	88.9	81.1	82.0	140.3
TWET 59. DEG F	1000	89.5	86.0	85.4	87.9	91.2	89.8	92.5	91.4	89.8	87.1	86.9	89.3	83.2	78.2	81.3	77.4	139.0
(288. DEG K)	1250	89.0	86.9	85.9	89.7	89.0	92.0	91.1	89.0	88.0	84.8	86.9	86.1	83.1	81.1	80.0	74.8	138.1
HACT 11.51 G4/M3	1600	90.3	87.9	91.2	89.9	88.2	90.7	93.2	88.4	87.1	85.7	83.0	85.1	82.0	80.3	78.1	78.2	138.2
(.01151 KG/M3)	2000	97.3	89.0	90.1	90.0	88.7	91.0	88.4	87.4	84.0	81.9	80.3	79.2	81.1	81.3	81.4	77.5	136.7
NFA 9615. RPM	2500	91.2	90.6	90.0	89.7	90.1	92.6	87.2	86.1	85.6	82.5	80.9	78.7	81.7	80.0	78.0	75.0	137.2
(1007. RAD/SEC)	3150	89.0	90.8	91.0	85.8	87.2	86.8	85.2	86.3	83.8	80.0	79.1	78.9	79.1	76.4	76.3	72.4	135.0
NFK 9574. RPM	4000	90.2	90.7	90.7	87.6	88.0	86.9	83.9	84.9	82.6	80.6	77.9	77.8	78.7	72.7	74.8	72.9	135.0
(1002. RAD/SEC)	5000	88.5	90.3	87.3	85.9	88.3	84.0	85.5	83.4	84.0	80.9	80.0	77.2	77.1	75.2	76.4	71.2	134.5
NFC 10628. RPM	6300	88.3	87.2	86.4	84.2	84.6	85.0	82.5	80.7	78.4	77.2	77.2	76.3	78.3	75.4	76.5	70.5	132.6
(1113. RAD/SEC)	8000	85.4	86.3	84.3	81.9	83.3	82.2	82.4	80.3	79.1	76.8	75.1	74.2	76.2	71.2	73.2	68.3	131.8
ND. OF BLADES 44	10000	83.0	83.9	81.0	79.0	80.2	79.1	77.3	76.3	74.0	72.9	72.0	71.1	70.8	69.2	69.4	65.4	129.0
12500	79.9	79.7	77.8	75.4	76.1	75.8	74.1	73.1	71.8	71.6	69.6	68.9	68.7	64.7	65.8	62.9	127.0	
16000	75.5	75.3	73.5	72.3	72.8	72.3	70.7	69.9	68.3	65.3	73.1	65.6	67.5	67.5	63.9	64.8	61.9	126.3
20000	70.2	70.0	69.3	67.1	67.5	68.1	65.6	64.6	65.0	74.1	62.1	64.2	63.0	61.6	63.3	61.2	126.1	
OVERALL MEASURED	101.0	100.1	100.1	99.8	101.1	102.1	101.4	101.3	101.3	98.9	99.0	96.7	97.8	97.8	94.3	93.5	93.2	
OVERALL CALCULATED	101.7	100.0	100.2	100.1	100.4	101.4	101.6	101.6	101.6	98.7	99.0	96.9	97.8	97.3	93.3	91.5	90.8	149.6
PND6	115.2	113.3	113.2	111.9	112.4	113.7	111.9	111.3	108.9	107.7	105.9	106.8	106.7	103.5	103.0	100.2		



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	80.8	80.6	78.0	78.7	78.9	78.4	76.8	77.9	75.6	75.8	74.0	73.0	75.6	75.8	75.0	76.8	126.4	
63	80.3	79.1	78.3	77.2	83.1	80.8	74.0	74.6	72.9	51.2	74.1	74.0	76.6	77.5	75.8	79.2	127.7	
RADIAL 100. FT. (30. M)	84	74.8	73.6	72.0	70.5	71.6	71.4	69.6	68.4	70.5	69.9	69.8	66.6	67.4	69.7	69.8	69.6	119.7
VEHICLE ATT CONFIG T-0	125	71.4	68.1	67.7	68.5	69.1	66.8	68.0	66.2	66.0	64.4	64.5	66.4	67.2	70.0	69.3	117.2	
LDC PTO	160	81.2	71.6	69.5	76.9	78.9	76.0	72.7	78.1	74.7	68.0	73.0	71.8	76.7	76.1	75.9	74.7	125.4
DATE 07/31/74	200	70.1	66.9	67.2	67.9	70.1	67.7	69.0	66.1	66.1	65.4	64.2	64.9	66.7	67.4	66.9	65.9	116.9
RUN 495	250	72.9	71.9	72.6	70.9	72.0	72.0	70.7	69.0	67.8	66.4	67.6	67.0	67.8	69.2	69.1	68.0	119.4
TAPF A787	315	78.9	76.8	74.2	78.2	83.3	81.9	78.9	79.2	74.5	78.2	78.6	75.1	74.8	74.3	74.8	73.9	128.3
BAR 29.0 HG (97760. N/M2)	400	72.3	74.0	80.3	74.8	74.2	81.9	76.7	78.9	78.0	75.0	77.2	75.9	73.8	75.2	76.1	73.7	127.3
TAMP 63. DEG F (290. DEG K)	500	80.0	80.7	90.2	83.7	80.0	93.6	87.7	90.7	88.8	87.1	88.0	86.8	82.6	86.3	87.0	83.6	138.3
TWET 59. DEG F (288. DEG K)	630	82.4	84.2	88.6	80.2	90.4	97.0	96.3	95.3	98.1	96.5	92.5	88.2	91.1	83.6	78.3	80.4	144.0
HACT 11.65 GM/43 (.01165 KG/43)	800	89.1	87.0	97.3	89.0	88.5	92.9	98.9	93.0	91.0	94.4	88.1	92.1	95.0	89.5	87.3	82.1	143.6
NFA 9439 RPM (988. RAD/SEC)	1000	93.4	89.1	87.3	94.5	95.4	95.9	99.3	97.2	96.2	93.2	92.6	93.4	90.2	89.5	87.3	82.1	144.7
NFK 9403 RPM (984. RAD/SEC)	1250	87.3	91.1	94.5	94.0	93.2	93.7	92.7	91.7	89.6	84.3	85.4	87.0	82.7	85.0	83.0	78.7	140.5
NFD 10628 RPM (1113. RAD/SEC)	1600	97.3	95.1	96.6	95.1	93.3	90.9	92.1	90.0	88.1	83.2	83.2	84.1	85.1	80.4	82.4	80.0	140.2
NO. OF BLADES 44	2000	102.4	101.2	97.4	95.3	92.2	92.3	90.1	90.0	87.9	84.5	85.3	81.2	85.1	82.7	82.2	79.1	141.0
	2500	96.3	96.1	97.4	94.2	92.2	90.9	89.7	86.8	85.6	84.0	82.4	81.3	82.0	81.2	81.0	76.9	139.6
	3150	93.6	94.4	95.6	91.3	90.4	90.3	89.4	89.2	87.2	84.7	83.6	81.3	80.3	78.4	78.3	75.1	138.8
	4000	96.0	94.1	93.2	93.2	91.1	89.6	88.0	88.8	86.9	83.4	79.3	79.0	79.6	75.0	75.1	73.7	138.5
	5000	93.4	94.2	91.8	90.7	91.6	87.2	88.1	86.4	87.1	83.7	81.4	79.2	80.0	77.8	77.3	73.2	137.8
	6300	93.7	92.5	90.9	87.6	87.5	88.2	84.2	84.2	82.2	79.5	79.6	77.2	78.0	75.4	76.5	72.1	135.8
	8000	90.7	90.4	88.5	86.1	86.4	84.8	85.3	83.3	81.2	78.3	76.5	75.0	74.1	71.6	73.2	69.2	134.7
	10000	88.2	88.1	85.2	83.0	83.3	82.8	81.0	79.3	78.0	75.3	74.5	72.3	71.8	69.4	70.3	66.9	132.5
OVERALL MEASURED	12500	85.0	84.8	82.1	79.1	80.2	79.5	78.0	76.9	74.6	73.2	69.9	69.8	69.5	65.0	66.9	63.7	130.5
OVERALL CALCULATED	16000	81.9	80.7	79.3	76.8	78.7	76.8	74.8	72.8	71.5	72.8	67.2	67.6	67.6	64.0	65.0	63.7	129.6
PMB5	20000	77.7	77.2	74.8	73.3	76.3	72.4	72.5	67.4	67.2	71.4	64.5	65.3	65.1	61.8	63.3	64.4	129.3
		106.6	105.3	105.3	104.1	102.4	104.0	104.1	102.8	102.9	101.3	98.4	98.0	98.7	96.2	95.2	94.2	152.1
		106.5	105.5	105.6	103.4	102.8	103.8	104.7	102.7	102.4	100.9	98.3	97.4	98.6	96.5	94.2	92.2	
		119.7	118.8	118.2	115.7	114.7	114.6	113.9	113.1	111.6	109.6	108.0	106.4	107.8	105.6	104.7	101.7	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 9 DAY 18 HR. 22.9

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	
50	73.9	74.9	72.6	75.0	75.9	74.1	72.0	71.9	71.1	72.9	70.6	69.9	70.6	71.0	70.8	71.0	122.1
63	71.9	71.0	75.7	72.4	82.1	79.1	70.9	67.0	71.0	81.1	69.9	68.9	67.0	70.9	67.0	69.1	125.2
RADIAL 100. FT. (30. M)	80	66.7	66.7	65.3	65.7	66.9	64.8	64.6	63.8	63.8	64.9	65.4	63.7	62.5	62.6	62.9	114.4
VEHICLE ATT	100	67.0	65.2	65.6	65.3	68.1	66.0	64.7	64.2	63.9	65.2	65.8	66.1	66.9	69.1	64.6	115.9
CONFIG T/O	125	68.3	68.3	68.8	69.7	71.4	69.2	70.5	63.5	65.5	62.3	62.1	67.2	67.2	65.3	68.2	117.3
LDC PTD	160	64.2	62.0	62.6	64.6	71.3	63.2	64.0	62.0	61.2	61.0	60.7	62.8	62.9	63.1	62.1	113.8
DATE 7/31/74	200	69.2	69.6	69.0	69.2	72.5	66.2	66.6	64.8	62.2	63.2	61.1	61.2	62.0	63.0	62.8	115.6
RUN 497	250	77.1	76.5	75.9	73.5	74.0	72.1	71.3	69.2	67.2	64.3	64.2	63.0	67.0	64.0	67.8	119.8
TAPE A787	315	75.0	75.3	74.7	75.2	75.2	73.0	71.3	69.2	67.0	66.2	64.1	63.1	64.6	64.2	65.8	120.1
SAR 29.8 HG	400	74.0	74.1	73.8	76.2	74.7	72.2	69.9	68.1	68.0	66.0	65.0	64.3	66.7	64.3	64.9	119.9
(97794. N/M2)	500	73.8	72.1	72.6	73.2	70.7	70.1	69.1	67.6	63.8	65.0	64.6	64.8	64.6	65.8	65.6	118.1
TAMB 64. DEG F	630	81.5	80.3	80.0	79.5	79.4	75.3	75.2	73.3	74.1	71.3	69.8	68.3	69.2	69.1	62.2	124.6
(291. DEG K)	800	78.9	79.2	80.4	79.1	79.1	77.2	77.1	72.9	75.2	72.2	72.8	72.0	76.6	68.2	69.9	125.6
THET 60. DEG F	1000	79.4	80.4	80.1	79.2	80.3	80.4	79.4	79.2	74.1	72.4	73.0	72.3	73.9	71.1	70.8	126.7
(288. DEG K)	1250	86.2	85.3	83.9	82.5	84.0	85.3	85.2	83.3	79.1	78.1	80.0	76.2	75.0	74.9	73.1	131.8
FACT 11.87 CM/MS	1600	85.4	84.3	84.7	84.5	84.4	84.1	84.2	83.5	80.4	77.6	78.1	76.0	77.2	74.3	74.9	131.8
(.01157 KG/M3)	2000	88.6	87.6	82.1	90.5	80.4	88.6	88.6	87.2	83.5	82.2	82.2	77.4	79.9	76.1	74.3	135.8
NFA 7469. RPM	2500	90.4	91.0	91.9	91.4	93.1	91.4	90.0	87.9	86.0	82.2	81.7	79.1	80.6	76.8	77.9	137.8
(782. RAD/SEC)	3150	92.2	93.4	93.8	92.5	92.2	93.2	92.3	89.3	87.3	83.2	82.0	80.3	79.8	76.4	70.1	139.6
NFK 7437. RPM	4000	94.1	95.3	94.7	94.4	94.4	94.3	92.1	91.3	89.0	84.4	81.7	82.0	81.8	74.7	75.9	141.1
(779. RAD/SEC)	5000	94.4	96.4	96.1	94.5	96.5	93.4	95.3	92.3	92.5	88.2	86.5	81.5	81.0	80.6	75.4	142.8
NFD 18528. RPM	6300	94.5	94.6	94.3	92.6	93.6	93.6	91.6	89.3	87.6	83.7	82.1	79.3	80.3	77.3	76.4	140.6
(1113. RAD/SEC)	8000	92.3	95.3	92.6	91.5	93.1	90.6	92.3	88.3	87.3	83.3	80.3	78.2	77.3	74.3	74.0	140.2
NO. OF BLADES 44	12500	91.4	92.3	91.0	89.8	93.3	89.5	88.4	85.3	83.4	80.5	78.3	75.1	74.2	72.0	72.1	138.5
16000	88.0	87.9	86.5	86.0	87.1	85.8	85.1	82.9	81.1	78.4	73.7	71.0	69.8	66.7	66.6	63.8	136.3
20000	83.7	83.9	82.5	81.7	82.8	81.8	81.6	78.8	76.1	74.6	68.7	67.6	65.5	65.4	64.4	62.6	134.2
OVERALL MEASURED	75.4	79.6	77.3	76.7	79.4	76.4	76.4	72.5	73.6	71.4	64.1	64.4	62.1	64.3	62.1	63.4	132.1
OVERALL CALCULATED	102.2	103.4	103.0	101.4	102.3	101.5	101.4	98.2	97.1	94.2	92.9	95.2	91.3	88.6	89.2	87.3	149.7
ANN	102.3	103.1	102.7	101.9	102.5	101.8	101.3	98.9	97.4	94.0	92.3	89.5	90.0	87.1	86.9	82.9	
	115.3	116.1	115.9	115.2	115.9	115.0	114.7	112.1	111.2	107.6	106.1	103.4	103.6	100.8	100.6	96.1	

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PNL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
50	78.2	77.9	76.7	78.9	79.9	79.3	77.1	76.0	76.1	75.8	77.1	77.0	73.8	76.9	77.7	74.8	126.9	
63	71.2	71.3	75.0	71.2	82.3	80.1	76.1	66.1	76.8	81.0	73.0	68.8	66.7	71.8	48.9	73.1	125.4	
RADIAL 100. FT.	80	67.7	68.7	66.1	66.1	66.0	65.0	64.7	64.0	64.9	65.8	64.7	62.0	62.6	63.6	64.9	66.6	114.7
( 30. M)	100	67.2	66.1	64.3	66.1	65.2	65.1	64.0	64.0	63.2	63.2	64.1	64.1	65.8	55.2	66.1	66.9	114.6
VEHICLE ATT	125	72.3	68.2	66.3	70.3	72.3	67.2	65.2	66.3	68.5	63.6	66.1	66.4	68.1	67.3	68.2	67.3	117.5
CONFIG T/O	160	72.9	67.2	67.0	72.1	73.3	66.9	64.3	65.2	70.0	62.3	66.8	68.0	68.9	59.0	67.9	67.0	118.3
LDC PTO	200	66.3	66.3	65.9	66.2	66.5	65.1	64.4	62.5	62.4	64.2	62.1	63.1	63.3	64.1	63.2	62.2	114.0
DATE 7/31/74	250	70.0	71.5	71.6	74.4	74.1	70.5	71.1	66.1	68.2	66.2	66.7	64.0	66.3	64.9	65.2	64.4	119.1
RUN 498	315	70.0	71.0	72.0	76.5	76.1	73.2	72.4	67.9	70.2	69.1	69.0	66.3	68.7	66.1	66.9	65.1	121.0
TAPE A787	400	76.0	76.3	74.9	75.1	75.1	74.2	70.9	69.1	66.1	74.2	73.5	73.1	77.0	73.0	73.8	71.2	123.7
BAR 29.0 HG	500	74.9	78.1	75.8	76.1	75.9	77.1	79.7	77.0	75.0	76.9	73.6	71.2	76.8	80.1	80.9	77.1	127.4
(97794, N/M2)	630	86.2	85.3	92.3	94.4	88.4	84.2	94.4	87.4	92.4	92.6	79.3	87.1	87.0	90.1	85.1	80.4	140.3
TAMB 64. DEG F	800	89.1	85.2	92.8	96.3	90.3	88.2	95.9	83.3	94.2	94.2	89.8	89.0	90.7	90.2	82.3	78.2	142.1
(291. DEG K)	1000	90.6	92.4	90.1	99.6	97.4	101.6	100.7	94.7	93.5	91.2	86.2	85.4	88.3	87.3	90.1	84.3	145.9
TWET 60. DEG F	1250	97.3	99.0	98.9	97.7	98.2	99.0	101.3	100.4	100.3	100.3	97.0	91.9	93.8	90.9	90.9	92.3	148.5
(288. DEG K)	1600	93.5	97.5	92.9	96.9	94.2	95.5	96.4	96.5	94.4	91.3	90.1	89.2	87.2	86.4	84.2	81.2	143.8
WACT 11.87 CM/M3	2000	94.2	99.4	93.2	98.4	99.6	95.6	95.6	97.9	95.5	92.4	94.9	89.5	90.3	88.3	97.9	84.2	145.5
(.01187 KG/M3)	2500	95.0	100.3	101.6	96.3	96.0	97.9	96.1	95.1	95.2	94.1	89.6	86.9	88.6	84.1	81.4	80.2	145.2
NFA 8546. RPM	3150	96.5	95.3	97.0	93.5	95.2	99.2	95.5	94.1	91.2	89.2	87.8	87.0	88.0	82.3	82.1	79.2	143.8
( 995. RAD/SEC)	4000	96.2	96.0	96.9	96.1	96.2	96.1	95.3	94.3	93.4	89.9	85.8	85.0	86.1	79.0	79.0	77.1	143.8
NFK 8509. RPM	5000	96.2	97.2	96.3	95.2	98.1	93.4	96.4	93.4	92.3	89.6	88.0	84.4	85.1	82.4	81.5	76.3	143.7
( 891. RAD/SEC)	6300	95.7	95.5	94.3	92.6	94.4	94.5	92.7	90.4	89.6	86.3	86.2	82.4	83.3	79.6	78.4	73.4	141.7
NFD16528. RPM	8000	93.4	93.5	92.1	91.5	93.2	92.3	93.5	90.6	88.9	86.3	83.3	81.2	80.3	76.2	76.2	72.4	141.3
(1113. RAD/SEC)	10000	90.7	91.4	89.1	88.7	90.2	90.4	89.7	87.4	85.5	83.4	82.2	78.5	77.1	74.4	73.2	69.5	139.2
NO. OF BLADES 44	12500	87.3	88.3	85.5	84.9	86.9	87.3	86.1	84.1	82.0	81.3	78.6	73.8	72.8	58.9	69.0	65.6	137.1
	16000	83.6	83.8	81.5	81.9	82.6	82.7	82.9	80.6	78.0	77.7	73.3	70.8	68.6	65.6	65.7	61.7	135.2
	20000	78.5	78.5	77.1	76.5	78.8	77.3	78.3	75.5	74.6	74.2	69.3	67.2	64.5	65.3	62.2	60.5	133.3
OVERALL MEASURED		106.1	107.4	107.7	107.3	106.9	107.1	107.5	106.4	105.4	104.3	101.7	98.9	100.0	97.9	97.8	93.0	
OVERALL CALCULATED		105.7	107.7	107.3	107.1	107.0	107.6	107.9	106.0	105.4	104.2	101.3	98.4	99.5	97.8	96.7	91.6	155.4
PNDR		118.4	120.4	120.5	118.9	119.4	120.1	118.8	117.3	116.7	115.2	113.0	110.0	111.0	108.4	107.5	103.8	

	ANGLES FROM INLET IN DEGREES (AND RADIAN)																	PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	77.8	79.1	75.5	77.9	76.0	77.0	75.9	77.0	75.2	75.0	72.6	72.0	74.7	75.0	74.6	73.0	125.3	
63	72.9	72.9	74.7	73.0	82.2	79.1	70.3	69.4	71.0	81.0	70.7	68.1	68.7	72.1	70.9	71.2	125.5	
RADIAL 100. FT. (30. MI)	80	68.9	68.9	67.6	66.7	67.9	65.8	64.7	66.7	67.7	66.5	62.7	64.4	65.0	66.4	67.1	116.1	
VEHICLE ATT CONFIG T/O	100	70.2	67.9	66.5	67.1	65.1	64.2	64.3	63.2	64.3	64.2	64.7	63.9	64.9	64.0	63.8	114.6	
LOG PTO	125	70.3	66.3	65.1	66.6	66.5	65.3	65.5	65.6	66.3	64.2	63.1	65.2	66.4	65.2	67.1	115.5	
DATE 7/31/74	160	75.0	68.3	64.8	72.2	70.0	72.1	71.2	73.1	71.8	65.3	69.0	75.1	74.2	73.9	76.1	122.3	
RUN 700	200	71.2	64.1	63.1	64.5	65.1	64.1	64.4	62.6	66.3	64.2	62.2	63.4	64.2	64.2	63.9	114.1	
TAPE 4757	250	71.3	68.1	67.5	67.2	70.3	68.1	70.2	68.0	67.1	63.9	64.9	68.9	68.6	70.0	66.9	118.0	
BAR 29.0 HG	315	73.3	76.3	76.7	74.2	81.2	78.3	81.2	80.1	75.2	68.0	75.2	81.1	79.7	81.2	76.7	128.7	
(97794. N/H2)	400	81.8	77.8	83.9	88.2	85.9	84.2	79.1	78.2	71.9	76.0	66.0	83.0	81.6	82.0	69.6	132.5	
14MB 66. DEG F	500	86.0	83.1	87.4	92.0	91.0	88.8	86.0	86.0	84.0	83.0	90.6	88.9	86.7	85.9	81.5	137.7	
(292. DEG K)	630	80.4	83.1	86.8	92.5	92.3	97.2	97.5	97.2	97.5	94.4	94.0	95.1	94.5	82.3	95.0	145.3	
FACT 12.26 GM/M3	800	89.0	89.4	93.2	89.0	97.2	94.1	95.2	96.3	98.9	91.9	96.8	97.2	102.1	92.0	92.1	146.8	
(.01226 KG/M3)	1000	89.3	88.6	97.2	95.4	99.1	102.4	99.1	95.4	95.4	91.2	90.9	93.4	94.0	90.5	82.3	146.4	
MFK 8999. RPM	1250	94.2	96.2	104.0	101.5	100.2	97.1	92.1	95.2	96.1	92.3	94.0	96.0	90.0	88.9	88.0	146.6	
(942. RAD/SEC)	1600	98.3	99.5	99.2	97.4	94.4	97.5	95.4	92.3	91.5	87.5	87.3	89.2	86.0	82.3	82.9	143.5	
MFA 9060. RPM	2000	101.0	101.7	101.3	96.4	93.4	92.5	92.5	95.2	92.5	89.5	89.0	88.5	87.4	83.2	82.3	143.5	
(949. RAD/SEC)	2500	94.2	97.0	108.6	98.1	95.0	94.2	92.0	90.0	89.0	86.3	85.7	82.1	84.8	81.9	81.8	142.5	
MFK 8999. RPM	3150	95.2	95.5	95.9	93.5	95.9	92.3	93.2	88.5	90.3	86.2	85.0	83.2	85.2	80.1	80.4	141.2	
(1113. RAD/SEC)	4000	98.1	96.3	95.0	94.1	95.9	91.1	91.0	89.1	89.6	86.1	83.1	83.1	83.0	77.0	76.8	140.9	
MFA 10620. RPM	5000	95.3	95.5	95.3	92.5	96.4	89.5	92.4	86.6	89.3	86.4	85.2	80.4	81.2	78.5	78.1	140.9	
(1113. RAD/SEC)	6300	94.6	93.6	94.3	90.6	90.7	91.5	88.4	86.6	84.3	82.2	82.3	79.4	82.3	77.6	76.3	138.7	
MFA 10620. RPM	8000	91.3	92.3	96.3	89.6	90.3	87.3	88.5	86.1	84.4	81.4	79.4	77.1	77.1	72.3	72.0	137.6	
(1113. RAD/SEC)	10000	89.6	90.5	88.1	86.3	87.3	85.4	84.2	82.6	81.3	79.1	77.4	73.4	74.1	71.1	71.2	135.6	
NO. OF BLADES 44	12500	86.9	86.9	84.6	81.9	83.0	82.0	80.9	78.9	77.3	75.9	73.6	70.0	70.7	65.9	66.9	133.0	
	16000	82.6	81.8	88.5	78.7	79.9	78.6	78.0	75.7	74.0	74.7	69.4	67.6	68.4	64.3	63.8	131.7	
	20000	77.6	77.5	75.8	74.6	77.0	73.2	73.4	70.4	71.3	73.4	69.1	64.0	69.0	64.1	62.1	130.6	
OVERALL MEASURED	106.3	107.3	108.9	106.5	107.2	106.1	105.3	104.1	104.2	101.2	102.1	102.8	103.9	96.9	98.8	96.2	154.8	
OVERALL CALCULATED	106.6	107.3	109.1	106.8	107.1	106.8	105.2	104.3	104.6	100.5	101.9	102.6	104.1	97.2	98.2	96.1		
PNDH	119.4	119.7	121.0	116.0	118.8	116.9	116.3	115.1	114.2	110.7	110.8	111.0	112.6	106.3	107.0	103.9		

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	78.1	79.2	76.6	78.0	77.8	77.2	76.0	76.1	74.9	75.9	73.6	72.6	76.6	76.9	76.9	74.9	125.9
	63	73.2	74.0	76.7	73.1	82.1	79.2	70.3	67.9	72.0	81.2	70.8	69.0	70.7	72.7	72.7	72.2	125.7
RADIAL 100. FT.	80	67.6	68.7	67.4	67.0	67.6	66.7	64.7	64.6	67.0	66.7	66.6	62.7	64.7	65.8	66.4	67.0	116.0
( 30. M)	100	69.3	68.0	66.9	66.3	63.8	67.9	66.3	64.2	62.2	63.0	65.8	65.8	64.6	68.1	65.7	69.1	115.7
VEHICLE ATT	125	69.3	66.3	66.2	66.6	65.3	67.3	65.2	65.3	65.3	63.2	65.2	66.2	66.9	67.2	67.3	68.5	116.0
CONFIG T/O	160	78.9	71.2	65.6	74.0	69.7	75.0	67.1	73.0	71.4	65.3	74.9	76.1	73.1	73.8	74.5	72.1	122.9
LOC PTO	200	65.5	63.5	63.9	65.6	65.1	64.5	64.4	62.4	64.6	64.2	63.2	63.0	64.3	65.3	64.9	63.4	114.2
DATE 7/31/74	250	68.4	68.3	67.6	68.2	72.2	69.2	72.1	70.1	67.2	63.3	65.9	69.9	68.9	70.2	66.0	64.1	119.1
NUM 501	315	71.0	77.7	76.7	78.4	83.3	81.4	84.9	83.2	77.3	76.1	76.9	83.0	80.7	82.3	80.2	72.1	131.3
TAPE A787	400	79.9	75.9	82.5	87.1	73.2	86.0	81.9	73.9	78.9	76.2	87.0	82.0	83.9	78.1	78.7	67.4	132.4
BAR 29.0 HG	500	85.2	81.9	87.6	91.8	80.0	92.0	88.2	81.9	84.9	84.3	92.7	88.0	88.7	93.8	81.8	78.1	138.2
(97810. N/H2)	630	82.3	78.3	84.1	87.4	91.5	93.5	95.6	93.4	95.2	93.3	90.9	93.5	89.4	88.5	95.1	92.5	143.2
TAMB 68. DEG F	800	94.2	83.9	90.0	90.3	93.1	93.1	93.4	94.2	95.3	90.1	91.0	97.2	100.0	90.0	93.3	94.0	144.8
(293. DEG K)	1000	85.5	90.4	96.6	95.2	99.1	102.2	100.3	90.3	95.7	92.4	92.1	95.1	93.1	89.4	83.0	85.2	146.6
TMET 63. DEG F	1250	91.2	95.8	102.0	99.3	100.0	98.3	94.0	95.1	93.1	94.4	91.7	92.2	90.9	81.2	84.0	83.0	145.6
(290. DEG K)	1600	95.9	98.5	98.0	96.6	95.2	94.5	96.3	93.4	87.5	88.4	89.1	87.4	85.2	83.7	85.2	78.1	142.9
FACT 12.81 GM/M3	2000	100.5	102.6	100.2	96.6	93.6	94.6	96.2	95.2	92.8	90.5	91.1	87.2	89.1	81.7	87.0	77.5	144.2
(.01281 KG/M3)	2500	93.8	98.1	97.6	98.9	96.1	95.1	91.9	89.3	90.4	88.3	87.0	81.9	85.7	84.4	82.9	77.9	142.7
NFA 9113. RPH	3150	95.5	96.4	97.0	93.5	96.2	91.4	90.5	89.0	87.6	86.3	85.0	84.2	85.1	80.4	78.0	75.3	141.0
( 954. RAD/SEC)	4000	98.9	93.3	95.0	95.4	95.5	91.4	91.4	90.1	88.4	84.2	81.6	81.2	82.6	76.5	76.0	73.1	148.7
NFK 9035. RPH	5000	94.4	96.2	93.1	92.2	94.3	89.3	90.7	88.8	88.8	86.3	85.2	81.0	82.2	78.6	78.4	72.4	139.9
( 946. RAD/SEC)	6300	93.5	93.7	92.1	90.5	91.6	86.5	87.4	85.3	84.5	81.5	81.2	79.3	80.3	76.5	76.1	71.2	138.1
NFO 10628. RPM	8000	91.0	92.3	90.0	88.8	91.3	86.1	88.2	85.5	83.2	81.3	79.1	77.2	76.1	72.2	73.1	69.1	137.4
(1113. RAD/SEC)	10000	90.6	89.6	86.1	86.2	86.4	85.5	84.4	81.2	79.7	78.2	77.1	74.1	74.4	71.3	71.0	66.2	135.1
NO. OF BLADES 44	12500	85.8	86.0	84.3	81.9	83.0	81.8	80.7	78.8	76.0	75.8	72.6	72.8	70.5	66.1	66.5	63.1	132.7
	16000	82.7	82.4	80.3	79.6	79.6	77.6	77.9	74.7	73.9	73.7	68.3	68.4	68.6	55.6	64.3	62.8	131.4
	20000	77.3	77.3	76.8	75.0	77.0	73.1	73.1	70.2	71.2	74.2	65.1	65.2	68.9	65.3	63.8	63.1	130.8
OVERALL MEASURED		106.3	107.0	107.0	106.4	106.1	106.0	105.1	103.3	102.3	101.3	100.7	101.2	102.9	96.2	98.8	97.0	
OVERALL CALCULATED		106.2	107.3	107.8	106.3	106.6	106.5	105.5	104.0	102.8	100.9	100.7	101.9	102.5	96.3	99.1	97.2	154.3
PND8		119.6	120.1	119.7	119.2	118.6	117.2	116.4	114.9	113.3	111.2	111.4	110.3	111.6	106.8	107.6	104.8	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	50	79.0	80.0	76.8	78.9	78.9	77.9	77.0	77.0	77.1	75.9	74.7	73.3	74.9	75.9	76.0	73.9	126.3
	63	73.9	74.4	76.9	73.3	81.9	79.0	71.1	69.9	73.2	81.1	71.6	69.9	70.8	73.8	72.9	72.0	125.8
RADIAL 100. FT. ( 30. M)	80	68.7	70.0	67.7	66.8	67.8	66.8	65.7	64.7	68.0	67.8	67.4	64.0	64.7	65.6	66.8	66.7	116.5
VEHICLE ATT	100	70.9	69.0	68.0	67.1	66.1	67.9	70.9	68.0	64.3	62.8	67.7	69.0	66.8	65.8	66.0	72.2	117.7
CONFIG T/O	125	69.5	67.4	66.0	66.3	66.1	67.6	70.0	68.2	64.6	63.3	67.1	69.2	68.0	68.2	68.4	71.2	117.7
LOC PTO	160	78.0	72.2	68.0	73.1	70.1	76.1	67.1	75.0	69.1	66.0	71.7	76.0	75.9	78.1	75.8	75.1	124.0
DATE 7/31/74	200	65.5	64.1	64.2	65.3	65.1	66.2	65.5	63.5	64.4	64.4	63.1	64.4	64.2	65.1	65.1	65.3	114.7
RUN 502	250	67.1	67.1	66.8	67.0	69.4	68.1	67.1	66.9	64.4	64.3	65.8	63.9	65.9	66.1	65.8	64.3	116.3
TAPE A787	315	76.5	74.0	75.8	78.4	82.9	82.0	80.2	80.2	72.2	76.2	77.8	73.2	74.8	71.1	71.8	72.0	128.0
BAR 29.0 HG	400	68.9	72.9	79.1	77.0	82.8	81.1	79.0	77.1	75.3	78.1	73.8	75.1	78.1	70.9	74.8	68.1	127.7
(97810. N/MZ)	500	73.8	81.0	67.7	86.2	91.8	90.3	87.1	87.3	85.1	87.0	83.5	84.0	85.7	77.8	82.7	73.9	136.7
TAMB 68. DEG F	630	84.3	88.6	83.2	87.5	98.3	92.6	95.2	97.6	92.5	96.5	94.2	92.6	89.2	90.3	82.0	80.4	144.1
(293. DEG K)	800	86.3	86.3	84.7	88.4	93.0	90.2	95.1	92.3	91.0	96.1	89.8	87.3	93.0	90.0	82.8	81.2	142.0
THET 63. DEG F	1000	87.4	90.3	88.3	89.8	94.2	96.5	96.5	93.2	93.4	92.5	94.2	87.5	89.4	84.3	84.9	83.3	143.0
(290. DEG K)	1250	88.4	92.2	94.9	96.4	96.8	92.1	92.4	91.2	91.4	86.4	90.8	86.4	90.0	88.0	82.9	75.1	141.7
WACT 12.81 GM/M3	1600	97.4	99.4	95.1	94.7	93.5	91.6	92.5	89.3	89.4	84.2	88.0	84.5	85.9	83.2	83.2	78.4	140.8
(.01281 KG/M3)	2000	101.3	101.3	95.2	95.6	91.5	91.8	91.6	92.5	89.3	87.4	85.2	84.4	84.9	81.2	81.1	75.5	141.2
NFA 9274. RPH	2500	95.1	97.1	97.9	93.3	96.0	91.3	89.4	88.5	88.4	87.2	85.5	83.2	82.9	80.9	80.0	75.3	140.8
( 971. RAD/SEC)	3150	96.4	95.4	97.3	89.3	91.5	91.5	88.4	88.3	88.6	86.3	83.0	83.4	81.9	78.2	78.2	81.4	139.4
NFK 9195. RPH	4000	98.2	95.2	94.9	92.3	92.2	89.2	88.3	88.2	85.2	83.2	79.9	82.1	82.0	75.0	74.8	75.0	138.7
( 963. RAD/SEC)	5000	94.4	93.4	93.0	90.4	92.1	86.1	88.6	86.2	86.1	83.0	82.2	80.5	79.4	77.6	77.2	72.2	137.8
NFD10628. RPH	6300	93.3	92.3	91.3	88.5	88.2	87.7	83.5	82.4	81.6	79.3	79.1	78.3	78.4	78.3	76.0	70.4	135.8
(1113. RAD/SEC)	8000	91.3	89.3	89.2	86.2	87.1	83.4	85.4	82.3	80.5	78.2	76.2	76.4	74.4	72.1	72.3	67.4	134.6
NO. OF BLADES 44	12500	88.4	88.6	85.2	83.3	83.1	82.2	81.3	78.6	77.3	76.3	75.3	72.4	72.3	69.1	69.3	65.5	132.4
	16000	85.1	83.7	81.7	78.9	79.7	78.8	76.9	76.1	74.1	73.1	71.5	68.7	66.7	65.8	65.7	62.1	129.9
	20000	81.5	80.7	77.4	75.6	75.0	74.6	73.6	71.9	70.6	72.6	67.4	66.4	66.5	65.5	64.2	62.8	128.5
OVERALL MEASURED		78.1	75.1	73.0	71.2	71.0	68.9	68.0	66.2	65.4	73.4	82.7	64.3	63.1	65.2	64.1	63.2	127.3
OVERALL CALCULATED		106.4	106.1	104.9	103.4	105.3	103.2	103.2	102.3	100.3	101.3	99.7	97.4	98.0	96.2	94.1	91.3	
PNDP		106.3	106.4	104.9	103.2	105.0	102.7	103.1	102.3	100.5	101.4	99.9	97.1	98.3	95.3	92.7	90.0	151.9
		119.1	119.2	116.2	115.3	117.1	114.5	113.2	112.9	111.6	110.3	108.9	107.5	107.5	104.5	103.6	102.7	

RADIAL DISTANCE 2V4

DATE 7/7/74  
PAGE 1

SOUND PRESSURE LEVELS REDUCED AT STANDARD DAY (59 DEG.)

FREQ.	ANGLES FROM INLET																		
	0	10	22.5	37.5	45	52.5	60	72.5	82.5	90	100	110	120	130	140	150	160	170	(PWL)
500	74.22	79.10	75.69	77.49	77.83	76.77	76.42	77.85	76.20	77.25	74.86	73.83	75.73	71.69	70.18	75.74	75.15	75.15	126.1
600	74.79	78.69	76.87	77.13	82.12	79.28	76.74	76.62	73.79	76.49	73.43	73.85	75.65	71.58	70.08	75.74	75.10	75.10	126.2
700	87.24	69.24	66.77	66.40	66.17	66.65	64.67	65.87	64.75	64.43	63.75	63.87	64.64	62.84	61.14	66.85	66.25	66.25	126.3
800	100.48	66.85	66.44	66.49	66.39	65.92	64.57	66.98	64.99	64.68	63.99	64.07	64.84	63.04	61.34	67.05	66.45	66.45	126.4
900	101.50	73.14	71.09	70.59	71.11	70.59	73.09	75.59	74.48	74.16	73.48	73.57	74.34	72.54	70.84	76.55	75.95	75.95	126.5
1000	101.66	77.75	72.72	72.24	72.77	72.24	74.74	77.24	76.13	75.81	75.13	75.22	76.00	74.20	72.50	78.21	77.61	77.61	126.6
1100	101.84	80.00	75.00	74.50	75.03	74.50	77.00	79.50	78.39	78.07	77.39	77.48	78.26	76.46	74.76	80.47	79.87	79.87	126.7
1200	102.04	82.25	77.25	76.75	77.28	76.75	79.25	81.75	80.64	80.32	79.64	79.73	80.51	78.71	77.01	82.72	82.12	82.12	126.8
1300	102.25	84.50	79.50	79.00	79.53	79.00	81.50	84.00	82.89	82.57	81.89	81.98	82.76	80.96	79.26	84.97	84.37	84.37	126.9
1400	102.46	86.75	81.75	81.25	81.78	81.25	83.75	86.25	85.14	84.82	84.14	84.23	85.01	83.21	81.51	86.98	86.38	86.38	127.0
1500	102.68	89.00	84.00	83.50	84.03	83.50	86.00	88.50	87.39	87.07	86.39	86.48	87.26	85.46	83.76	89.99	89.39	89.39	127.1
1600	102.90	91.25	86.25	85.75	86.28	85.75	88.25	90.75	89.64	89.32	88.64	88.73	89.51	87.71	86.01	91.00	90.40	90.40	127.2
1700	103.12	93.50	88.50	88.00	88.53	88.00	90.50	93.00	91.89	91.57	90.89	90.98	91.76	89.96	88.26	92.01	91.41	91.41	127.3
1800	103.34	95.75	90.75	90.25	90.78	90.25	92.75	95.25	94.14	93.82	93.14	93.23	94.01	92.21	90.51	93.02	92.42	92.42	127.4
1900	103.56	98.00	93.00	92.50	93.03	92.50	94.75	97.25	96.14	95.82	95.14	95.23	96.01	94.21	92.51	94.03	93.43	93.43	127.5
2000	103.78	100.25	95.25	94.75	95.28	94.75	96.75	99.25	98.14	97.82	97.14	97.23	98.01	96.21	94.51	95.03	94.43	94.43	127.6
MEASURED CASPL	102.3	101.9	101.9	100.8	99.98	101.4	100.0	99.87	98.99	97.17	97.25	97.28	96.89	95.44	94.28	91.17	91.17	91.17	
CALCULATED CASPL	103.1	101.8	101.9	100.4	99.95	101.5	100.4	99.93	99.15	97.18	96.99	96.67	96.09	94.44	93.28	90.17	90.17	90.17	
PROB	110.9	120.1	119.0	117.6	117.0	117.7	115.7	116.1	115.0	113.5	113.0	112.9	112.2	110.7	109.2	106.0	106.0	106.0	

DAPWL 1 100.2

AMBIENT TEMP, 76.99  
 MET-BULB TEMP, 62.49  
 BAR. PRESSURE, 28.96  
 ABS. HUMIDITY, 21.99

ATTI FAN HYBRID INLET I/O MODE T/D 7/31/74 R/D 8/6/74 NC-879

RUG 580 SPEED 9418 TAPE A787

REPRODUCIBILITY OF THE ORIGINAL DATA IS POOR

	0.	17.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
	50	79.1	83.2	76.9	79.4	79.1	77.9	77.2	77.6	77.6	78.1	74.2	74.0	76.0	77.2	75.7	74.8	126.9
	63	76.2	78.1	77.9	77.2	82.2	79.3	74.0	70.5	73.9	83.0	72.2	71.1	73.6	77.2	75.3	73.2	127.2
RADIAL 100. FT.	80	70.0	70.5	69.8	68.7	70.0	67.7	68.0	67.6	68.7	69.2	68.2	65.6	66.5	68.0	68.8	68.9	118.1
( 30. M)	100	70.1	70.0	69.1	67.8	67.1	67.3	69.1	68.9	65.9	66.2	67.3	68.2	66.8	67.1	69.0	70.0	117.7
VEHICLE ATT	175	70.3	69.2	66.3	66.2	66.4	67.3	70.4	69.9	65.9	65.6	66.8	68.4	67.1	67.5	70.6	70.6	118.1
CONFIG T/O	160	77.2	73.9	72.8	76.0	77.1	77.4	79.2	82.8	78.9	80.1	82.2	79.0	72.7	72.1	70.0	73.1	128.7
LOC PTO	200	69.3	68.4	68.2	68.3	69.3	68.2	69.4	71.0	68.1	69.3	68.4	68.4	66.9	67.4	66.4	65.5	118.6
DATE 7/31/74	250	73.8	73.9	74.1	73.0	74.2	73.2	72.3	71.0	70.8	68.3	68.3	68.4	68.9	69.5	69.2	67.3	121.0
WLN 504	315	77.5	74.0	78.9	79.1	79.1	78.4	77.6	73.8	74.1	75.1	75.4	70.9	74.9	75.1	74.2	68.3	126.0
TAPE A787	400	71.2	74.0	72.8	73.8	71.3	71.2	68.7	70.0	69.5	69.1	68.9	70.5	70.1	69.9	66.0	66.0	120.7
BAR 29.0 HG	500	72.9	73.6	74.9	75.9	74.9	75.0	71.5	78.0	74.0	70.9	72.0	72.5	74.2	72.0	71.9	71.9	124.4
(97.810. N/M2)	630	77.6	79.2	79.1	78.1	76.5	79.8	90.0	77.4	77.7	73.5	75.1	74.9	71.6	76.5	69.3	67.1	127.4
IAMB 71. DEG F	800	76.0	79.2	78.2	78.2	77.2	78.3	75.7	75.8	77.5	72.4	74.2	71.8	71.4	72.9	67.1	67.1	126.2
(295. DEG K)	1000	78.3	77.3	77.3	77.4	76.4	76.5	75.5	74.7	74.3	73.3	72.6	73.2	73.1	73.5	71.5	68.3	124.9
TWET 63. DEG F	1250	77.1	78.2	78.1	77.2	77.2	78.4	76.1	76.5	76.1	75.4	75.4	75.2	77.2	76.3	75.1	73.4	126.9
(290. DEG K)	1600	77.4	77.5	78.3	77.1	76.1	77.5	76.4	76.1	74.3	73.8	73.2	76.5	76.1	74.1	73.4	67.1	126.0
WACT 11.95 CM/M3	2000	78.4	77.5	80.0	79.4	77.6	76.3	75.5	75.0	74.1	73.3	74.6	75.4	76.2	76.0	74.5	69.3	126.4
(.01195 KG/M3)	2500	77.5	78.0	79.2	79.5	78.1	77.2	76.3	73.8	75.1	74.0	74.3	75.1	75.5	77.3	76.2	70.1	126.8
NFA 9963. RPM	3150	76.1	76.4	79.1	77.3	77.5	76.1	76.1	74.0	74.3	73.3	73.5	76.3	74.1	74.5	75.1	68.3	126.1
(1043. RAD/SEC)	4000	76.0	77.2	79.0	77.4	79.1	77.3	75.3	74.6	74.9	75.3	71.5	74.9	76.8	73.0	73.1	69.1	126.7
NFK 9950. RPM	5000	75.5	76.1	77.1	77.3	78.7	74.4	76.2	75.1	75.1	74.2	73.5	76.4	73.8	74.6	75.3	67.5	126.6
(1031. RAD/SEC)	6300	74.5	75.4	77.5	75.5	76.8	75.7	73.7	73.1	72.4	71.8	74.8	74.3	75.1	73.4	74.7	67.7	125.9
NFD 10628. RPM	8000	74.2	74.4	75.3	74.1	78.8	74.3	76.5	75.1	74.4	73.3	75.7	76.6	77.2	72.3	74.5	67.2	127.5
(1113. RAD/SEC)	10000	70.7	71.6	71.5	70.5	72.2	70.6	71.5	70.3	70.5	70.0	69.7	70.7	70.4	69.6	69.9	63.6	123.4
NO. OF BLADES 44	12500	68.1	68.3	68.1	67.1	68.3	68.1	69.2	67.7	67.8	70.7	66.3	68.1	66.9	64.5	66.0	61.2	122.0
	16000	65.2	67.0	66.1	65.2	67.2	66.2	67.1	65.9	67.1	74.2	64.3	66.1	66.9	65.4	66.0	62.2	124.0
	20000	63.7	64.7	63.9	62.7	64.0	64.1	63.7	61.7	65.0	76.1	63.1	64.6	63.4	65.9	65.8	63.6	126.6
OVERALL MEASURED		92.0	92.2	91.2	92.3	91.9	91.0	90.8	91.9	91.3	92.3	90.6	90.0	89.6	90.5	91.1	89.3	
OVERALL CALCULATED		89.6	89.8	90.7	90.3	91.0	89.7	89.5	89.2	88.4	89.6	87.8	87.9	87.9	87.5	87.3	83.6	139.7
PWDR		101.5	101.9	103.3	102.7	103.2	101.7	101.2	100.0	100.0	99.9	98.9	100.4	100.6	100.0	99.7	94.4	



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	50	78.9	81.0	76.9	75.1	79.0	78.2	78.0	78.7	77.9	78.2	75.3	74.0	75.5	76.0	76.0	74.9	127.1
	63	76.1	76.1	77.8	75.0	81.8	79.2	72.1	71.0	74.7	83.2	74.0	74.1	71.6	73.3	74.3	73.8	127.0
RADIAL 100. FT.	80	70.8	71.9	69.6	69.1	69.7	68.6	67.5	66.4	69.3	78.1	68.1	65.9	66.3	68.0	68.9	69.8	118.3
( 30. M)	100	69.9	69.2	68.0	67.9	66.0	66.9	66.1	65.5	65.6	65.4	67.2	66.9	66.8	66.2	68.0	67.4	116.8
VEHICLE AT1	125	70.2	69.0	67.3	67.2	68.3	68.2	69.2	72.1	67.0	66.7	68.3	68.0	67.7	67.5	69.4	68.1	115.5
CONFIG 1/0	160	70.1	73.8	73.8	70.7	71.6	75.8	69.9	78.0	71.8	72.3	67.6	68.9	66.6	73.0	73.0	72.0	123.0
LCC PTO	200	73.0	77.3	76.9	74.0	75.2	79.2	73.1	82.0	74.8	75.2	67.7	71.3	66.9	75.2	75.1	74.4	126.0
DATE 7/31/74	250	65.9	65.9	65.9	66.2	66.1	66.3	65.1	65.0	65.0	65.4	65.2	65.3	66.8	67.4	66.9	65.7	115.9
HUN 503	315	67.0	67.1	68.7	69.1	69.9	69.0	68.1	66.8	67.8	67.4	65.7	67.1	69.7	70.2	68.9	66.1	113.3
TAPE A767	400	66.9	70.1	71.9	71.1	71.0	69.9	68.3	65.7	68.7	68.4	66.0	68.8	70.9	71.2	70.1	66.0	119.4
BAR 29.0 HG	500	69.8	72.8	72.8	71.8	77.0	72.2	68.8	74.7	69.6	70.1	70.3	68.8	73.4	78.0	75.1	69.1	123.3
(97810, N/M2)	630	69.3	70.4	72.2	72.2	72.4	69.6	69.1	71.1	68.8	70.4	69.5	68.4	70.2	72.4	72.3	67.6	120.7
TAMB 72. DEG F	800	70.2	72.0	74.0	75.1	72.1	71.3	71.1	71.8	70.9	72.2	70.5	70.0	70.9	71.1	71.0	66.3	121.8
(295, DEG K)	1000	71.5	73.2	74.3	75.4	73.4	72.5	72.4	72.1	72.2	73.6	73.6	73.5	73.2	73.6	72.4	67.7	123.4
TWET 63. DEG F	1250	74.2	73.9	77.8	78.4	75.8	76.4	75.5	73.7	75.0	75.9	74.5	76.2	74.9	74.2	75.3	69.2	125.8
(290, DEG K)	1600	73.4	74.1	76.3	76.4	75.4	74.6	73.2	73.8	74.0	73.2	72.5	74.4	75.0	73.4	73.3	67.7	124.5
FACT 12.19 GM/M3	2000	73.2	74.3	76.3	78.5	80.4	77.5	77.5	75.0	75.2	76.3	74.8	79.4	76.1	76.8	77.3	69.1	127.6
(.01219 KG/M3)	2500	75.1	76.1	78.9	80.0	80.1	78.3	79.3	74.8	76.0	77.2	75.4	77.1	76.6	78.6	78.4	70.1	128.3
RFA10750. RPM	3150	75.3	76.3	80.1	78.0	80.3	77.6	79.6	78.3	78.0	76.4	80.4	81.3	77.0	78.4	77.1	71.5	129.6
(1126, RAD/SEC)	4000	76.2	79.1	79.1	80.2	81.3	79.6	77.1	77.8	79.1	78.4	77.7	78.5	81.8	77.3	77.0	72.3	129.9
RFX10623. RPM	5000	76.5	76.4	79.4	79.3	79.3	77.6	79.2	77.8	80.4	77.7	79.7	79.1	79.0	78.5	78.5	71.2	130.9
(1112, RAD/SEC)	6300	73.6	74.4	79.3	76.3	77.8	77.7	75.3	74.1	74.8	74.6	75.8	75.5	77.2	76.7	76.6	69.7	127.6
RFD10428. RPM	8000	73.2	76.4	77.4	78.6	78.7	79.5	78.7	76.0	79.0	77.7	77.7	81.3	78.0	73.6	76.6	68.4	130.3
(1113, RAD/SEC)	10000	71.4	72.6	73.3	72.3	74.3	73.4	73.2	73.2	73.3	72.7	72.8	75.6	75.4	72.5	72.4	65.5	126.4
NO. OF BLADES 44	12500	68.1	69.0	69.1	68.1	70.2	69.3	69.8	69.9	69.8	71.4	69.3	72.2	69.9	67.4	69.1	63.3	124.0
	16000	65.1	66.2	66.9	65.8	65.0	66.3	67.0	66.8	67.8	72.3	66.3	69.0	68.6	67.1	66.9	63.3	124.2
	20000	62.7	63.9	63.9	63.6	63.9	64.7	64.8	63.4	65.5	73.0	62.8	67.8	65.4	65.7	66.0	65.0	125.5
OVERALL MEASURED		91.2	91.2	90.8	91.9	92.1	92.4	91.3	91.8	90.7	92.3	93.5	91.2	90.3	91.3	92.4	89.7	
OVERALL CALCULATED		87.2	88.8	90.0	89.9	90.9	89.8	88.8	89.2	88.7	89.5	88.2	89.5	88.9	88.7	88.6	84.1	140.7
PMDR		99.7	101.7	103.2	103.1	104.0	102.7	102.1	101.5	101.9	101.5	102.0	103.1	103.1	101.8	101.4	96.8	

MODEL SOUND PRESSURE LEVELS (59, DEG. F; 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.17)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	79.1	81.3	77.9	79.1	79.1	78.0	77.7	77.7	77.9	78.4	74.3	74.7	75.5	77.1	76.0	74.2	127.1
63	74.8	74.7	77.9	76.2	82.1	79.4	72.9	70.7	73.6	82.0	71.2	70.8	73.5	76.1	74.0	72.3	126.6
RADIAL 100. FT. (30. M)	80	68.9	70.6	68.9	68.0	68.9	66.6	67.3	68.4	69.8	67.9	65.9	66.3	69.1	68.8	68.0	118.0
VEHICLE ATT	125	69.4	69.2	68.3	66.6	67.4	68.7	70.0	68.1	66.3	66.7	69.3	66.6	68.4	69.9	68.4	117.3
CONFIG T/O	160	76.7	72.9	76.7	76.5	74.1	79.1	79.2	80.1	79.9	80.3	81.5	77.1	76.7	80.2	78.3	128.9
LOC PTD	200	67.4	65.1	66.3	67.3	67.1	68.2	68.4	69.2	68.9	69.7	69.7	67.0	67.8	69.6	68.3	118.5
DATE 7/31/74	250	65.9	64.8	65.8	66.2	65.6	66.4	65.3	64.6	64.8	65.2	64.5	64.3	66.7	66.4	66.9	115.6
RUN 506	315	78.1	74.0	81.1	82.4	85.1	84.3	81.6	79.6	79.0	81.3	79.4	74.1	77.0	78.3	77.2	130.6
14PE A7B7	400	69.1	70.0	73.0	71.3	73.8	73.1	71.2	69.5	69.7	70.4	69.2	67.8	70.6	71.4	71.0	121.1
BAR 29.0 HG	500	73.9	75.0	72.9	75.8	77.3	78.0	78.2	74.5	77.9	79.9	71.5	72.0	74.7	75.0	74.0	125.9
(97810. N/M2)	630	73.4	76.3	79.1	77.4	77.4	77.3	77.4	79.4	77.2	76.4	72.8	73.4	74.0	72.5	77.1	126.6
TAMB 74. DEG F	800	75.2	78.1	79.2	78.4	77.3	78.9	80.3	76.9	78.0	79.6	73.1	74.2	72.7	72.3	74.1	127.4
(296. DEG K)	1000	76.3	76.1	76.1	75.5	76.2	75.4	76.2	73.9	74.2	73.6	73.7	73.1	74.1	73.6	72.2	124.7
INLET 63. DEG F	1250	77.5	77.1	78.2	77.3	77.2	78.3	75.2	77.8	76.0	75.4	76.8	75.2	76.9	75.5	74.9	126.8
(290. DEG K)	1600	76.4	77.3	78.5	78.3	76.4	77.6	76.2	76.9	73.9	73.6	73.5	75.1	75.9	73.3	73.4	126.0
FACT 11.47 GM/M3	2000	78.4	77.4	78.4	79.2	77.7	76.3	75.4	74.8	72.9	73.6	74.6	75.1	76.2	75.2	75.1	126.2
(.01147 KG/M3)	2500	77.0	77.3	79.1	79.9	78.1	77.3	76.2	74.6	73.9	74.0	73.4	74.7	75.6	76.4	76.2	126.6
RFA 9970. RPM	3150	74.4	76.1	78.2	77.2	76.1	75.4	75.1	74.0	74.2	72.6	72.8	75.0	73.8	73.3	75.3	125.5
(1044. RAD/SEC)	4000	76.4	76.3	78.3	77.4	78.1	76.1	74.1	73.9	75.0	74.3	71.2	75.2	76.0	72.2	74.5	126.1
RFK 9829. RPM	5000	74.4	75.1	75.4	77.3	77.4	74.2	75.5	74.2	75.3	74.1	74.8	76.4	73.2	74.7	76.5	126.4
(1029. RAD/SEC)	6300	74.5	74.6	76.6	74.6	76.3	75.7	73.4	73.3	72.2	72.6	73.6	73.4	75.0	74.7	75.3	125.8
RFD10628. RPM	8000	74.6	74.6	74.3	74.6	78.7	73.3	76.5	77.3	75.2	74.4	72.8	79.6	75.1	73.5	76.4	127.8
(1113. RAD/SEC)	10000	70.9	71.6	71.3	70.5	71.8	70.8	70.9	69.2	70.4	69.7	69.3	69.9	0.1	68.2	71.7	123.2
NO. OF BLADES 44	12500	67.3	68.3	68.1	68.1	68.3	67.3	67.5	67.1	66.9	69.4	65.9	67.1	66.9	63.5	66.4	121.2
	16000	65.6	66.2	66.4	64.4	67.4	65.6	66.6	64.9	67.4	71.7	63.9	67.2	66.3	63.7	65.3	123.0
	20000	62.2	64.6	68.1	62.4	66.6	63.7	63.2	62.1	66.2	72.5	60.5	64.3	63.9	62.7	64.2	124.7
OVERALL MEASURED	91.5	90.6	89.8	92.4	92.3	92.2	91.0	92.0	91.1	92.5	90.6	90.1	90.8	90.3	92.3	89.4	
OVERALL CALCULATED	89.0	89.3	90.5	90.5	91.4	90.7	89.8	89.2	88.9	89.9	87.9	87.4	88.2	88.3	88.4	83.9	139.0
PND8	100.9	101.1	102.6	102.8	102.7	101.6	100.8	100.0	100.0	99.9	98.9	99.8	100.4	99.9	100.4	94.6	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	)		
	50	79.9	80.6	75.7	77.9	76.9	76.7	74.6	76.7	75.9	76.4	73.6	72.4	76.8	77.1	77.7	75.3	126.0
	63	76.1	75.0	75.7	73.7	81.3	79.2	70.0	69.9	72.9	82.9	71.6	69.7	73.7	75.3	75.1	73.8	126.5
RADIAL 100. FT. ( 30. M)	80	67.6	69.3	66.4	66.4	66.5	66.3	64.3	65.3	66.5	68.5	66.6	65.7	69.4	69.6	68.7	67.6	117.1
VEHICLE ATT	100	68.1	67.1	64.7	66.1	64.9	64.7	64.6	62.8	63.2	63.8	64.5	66.6	67.8	70.0	69.0	66.9	116.0
CONFIG T/O	125	69.1	65.0	64.0	65.3	65.5	66.1	66.0	64.1	64.4	63.2	63.0	67.0	68.4	59.3	60.2	67.4	116.2
LOC PTD	160	79.8	70.9	70.6	72.9	69.0	78.1	75.1	71.7	72.3	66.9	71.5	76.4	77.0	77.0	75.0		124.7
DATE 7/31/74	200	66.0	64.0	63.8	65.1	65.1	64.7	63.7	64.7	63.0	64.6	63.0	63.7	64.8	65.3	65.2	62.8	114.3
RUN 507	250	69.4	66.6	66.8	67.1	69.1	67.8	68.8	66.9	64.0	63.7	64.9	66.9	66.0	67.4	66.2	64.0	116.7
TAPE A787	315	77.0	73.9	73.9	77.1	81.0	77.9	80.9	79.8	72.1	70.6	74.9	79.1	76.0	77.3	74.8	70.0	127.5
BAR 29.0 HG	400	76.9	75.9	79.8	82.1	79.9	86.9	78.7	77.8	79.1	79.0	83.8	78.7	82.8	75.0	69.8	70.0	131.1
(97827, N/M2)	500	81.9	81.6	85.8	88.7	86.8	93.9	85.9	85.5	87.0	87.5	91.7	86.4	89.7	82.2	80.8	80.0	138.5
TAMB 74. DEG F	630	83.1	85.2	84.0	80.2	92.4	94.2	96.1	94.2	94.3	95.8	92.8	93.8	88.0	92.3	96.1	93.4	143.9
(296, DEG K)	800	91.2	88.1	86.3	88.2	93.2	89.1	93.8	93.7	88.0	88.7	95.6	97.7	97.7	88.1	92.9	92.9	143.9
TWET 62. DEG F	1000	89.2	88.1	95.4	94.1	95.0	100.9	96.1	96.2	92.1	91.9	90.1	89.8	91.1	88.3	85.4	83.2	144.5
(298, DEG K)	1250	90.1	95.8	89.1	96.9	96.9	96.8	92.1	96.1	94.0	93.6	91.9	93.0	90.2	84.2	81.1	82.8	144.4
WACT 10.71 GM/M3	1600	98.0	100.3	97.2	95.1	94.0	94.2	93.0	91.6	90.1	88.8	88.7	88.1	88.3	83.5	81.3	76.1	142.2
(.01071 KG/M3)	2000	100.3	102.1	100.1	93.3	92.2	92.0	95.4	95.3	90.5	90.2	89.0	84.0	89.2	81.4	82.4	78.2	143.2
NFA 9180. RPM	2500	94.9	97.1	95.8	94.2	93.8	92.0	90.0	88.7	87.2	87.6	83.6	81.9	83.8	82.4	83.0	76.9	140.2
( 961, RAD/SEC)	3150	95.4	97.4	95.1	91.4	93.1	92.3	88.1	89.0	87.4	85.8	82.9	82.9	83.3	81.3	78.3	74.1	139.7
NFK 9050. RPM	4000	99.1	96.0	94.9	93.2	93.3	91.1	90.9	89.1	87.1	84.0	81.7	81.1	81.9	77.2	75.2	72.2	139.8
( 948, RAD/SEC)	5000	94.5	95.5	91.1	91.2	92.2	89.4	89.4	87.3	87.5	86.2	83.9	81.1	81.4	78.5	77.5	72.1	138.8
NFD 10628. RPM	6300	94.7	93.3	92.3	88.7	89.3	90.4	85.6	84.5	82.7	81.4	80.5	78.3	80.2	76.8	75.3	70.6	137.2
(1113, RAD/SEC)	8000	91.4	91.6	89.4	87.7	88.4	86.3	87.5	84.5	82.5	80.3	78.4	76.2	75.5	71.6	72.5	68.4	136.3
NO. OF BLADES 44	10000	90.6	89.5	86.5	84.7	84.7	84.4	81.6	80.3	78.7	77.4	76.0	73.1	73.2	69.8	70.6	65.7	133.8
16000	20000	86.3	86.6	82.6	81.4	81.3	81.1	78.8	77.4	74.6	75.3	72.3	70.1	69.2	66.6	66.5	62.7	131.7
OVERALL MEASURED		83.5	82.6	79.7	77.8	77.6	77.3	75.4	73.5	71.8	73.5	68.5	67.6	65.6	65.9	64.6	62.9	130.3
OVERALL CALCULATED		78.9	76.5	75.7	72.6	72.6	71.7	70.5	67.6	67.9	74.4	55.5	64.5	64.3	67.0	64.7	64.7	129.2
PNDB		106.0	106.9	106.2	104.2	104.3	104.9	103.1	103.1	101.4	100.7	100.6	100.9	101.2	96.4	99.0	96.9	153.1
		106.5	107.5	106.3	103.8	104.4	105.5	103.7	103.5	101.1	101.2	101.0	101.3	101.0	96.6	98.8	97.8	
		119.9	120.1	118.6	115.9	116.4	116.1	115.1	114.6	111.7	111.2	110.2	109.9	110.3	106.1	107.2	104.3	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	77.7	78.9	75.4	78.2	78.0	76.6	75.7	76.8	74.6	75.4	73.4	72.6	74.7	75.1	74.7	73.7	125.3
63	77.2	76.8	77.7	73.9	81.9	79.8	71.5	70.6	73.1	81.8	71.9	70.6	72.1	75.0	74.9	73.8	126.5
RADIAL 100. FT. ( 30. M)	80	67.7	68.4	67.8	66.7	66.4	63.7	64.4	66.5	67.3	66.6	63.3	64.4	65.7	66.7	66.7	115.9
VEHICLE ATT CONFIG T/O	100	67.9	66.9	66.6	66.1	64.8	64.7	64.7	62.6	63.2	62.6	64.6	65.5	63.8	67.0	67.9	65.8
LOC PTO	125	67.1	64.3	63.2	65.1	66.3	64.9	63.2	63.0	62.3	62.1	63.2	65.1	66.0	67.4	69.3	67.2
DATE 7/31/74	160	80.2	74.8	65.8	75.7	77.8	75.7	64.7	73.6	68.8	69.5	71.6	75.8	76.2	78.0	76.1	124.6
RUN 508	200	64.9	62.9	63.0	65.1	65.8	64.9	63.7	63.8	63.2	64.7	63.9	63.6	64.8	65.4	64.9	114.4
TAPE A787	250	67.2	66.0	67.0	67.1	69.1	67.9	66.0	66.7	64.0	64.8	66.0	63.9	66.0	66.2	65.0	116.2
BAR 29.0 HG	315	75.2	75.0	78.8	81.2	83.2	81.3	80.1	80.9	74.1	78.8	80.2	73.8	75.9	70.1	76.2	128.8
(97827. N/MZ)	400	68.8	69.7	77.0	78.9	82.0	81.0	80.7	81.1	77.9	79.6	75.9	74.4	72.9	76.3	76.8	128.7
TAMB 74. DEG F	500	77.0	79.8	86.9	89.0	91.8	90.8	90.5	90.8	87.9	89.4	85.8	84.7	80.1	86.2	87.9	138.6
(296. DEG K)	630	80.3	83.3	83.0	85.4	93.1	88.9	91.2	94.1	93.3	91.0	88.2	88.0	89.1	80.5	87.5	140.5
TWET 62. DEG F	800	89.2	85.8	82.9	88.9	93.2	91.0	95.7	89.9	96.9	89.9	84.8	92.6	92.9	84.3	76.8	141.1
(290. DEG K)	1000	90.5	90.3	88.1	87.4	92.1	96.2	93.9	93.2	91.2	92.1	92.2	85.1	83.1	86.4	86.2	141.7
MACT10.71 GM/M3	1250	87.9	87.1	90.9	91.9	94.9	91.7	90.9	92.0	86.3	89.9	86.8	85.9	85.1	81.3	82.0	139.9
(.01071 KG/M3)	1600	96.4	97.0	94.9	92.4	93.2	90.1	88.8	89.8	85.2	85.0	85.0	83.7	83.1	81.3	81.5	139.2
MFA 9348. RPM	2000	98.5	97.0	94.3	92.5	89.3	92.1	88.9	88.2	85.4	85.1	84.0	79.9	84.4	81.6	79.6	138.5
( 979. RAD/SEC)	2500	92.0	94.8	94.9	91.9	93.2	91.9	87.9	90.8	88.2	85.8	83.8	80.7	81.9	80.3	80.0	139.5
MFK 9216. RPM	3150	94.2	92.0	95.0	90.1	89.3	90.9	87.0	88.9	85.5	84.8	82.2	80.2	82.4	77.6	78.2	138.0
( 965. RAD/SEC)	4000	93.3	93.9	92.1	90.0	88.3	88.9	85.1	86.8	83.1	81.6	79.1	78.8	80.0	73.2	74.0	136.6
MFD16628. RPM	5000	91.6	91.0	88.2	88.5	90.4	86.0	87.1	84.3	84.3	83.0	81.3	77.2	78.3	75.4	76.2	136.0
(1113. RAD/SEC)	6300	90.8	89.5	88.4	85.6	85.7	86.4	83.1	82.4	80.0	78.2	78.4	76.3	78.4	75.6	75.3	133.9
NO. OF BLADES 44	8000	87.8	87.6	86.3	84.4	84.3	83.1	83.5	81.4	78.9	77.2	75.4	74.2	73.5	70.8	71.4	132.8
OVERALL MEASURED	10000	85.8	85.4	83.2	81.5	80.6	81.4	78.6	77.2	74.4	74.0	73.4	70.2	70.5	67.6	66.5	135.4
OVERALL CALCULATED	12500	81.7	81.5	79.0	77.8	77.7	77.1	75.1	74.2	71.5	71.3	69.4	67.3	67.3	64.5	65.5	128.1
PWDB	16000	78.7	77.5	75.5	73.7	73.7	73.5	71.5	70.3	68.9	73.1	65.8	65.5	65.5	63.7	64.7	127.0
	20000	73.7	72.7	70.7	68.8	68.8	68.6	67.4	65.5	66.5	75.5	63.5	65.6	62.7	64.2	63.6	127.5
																	150.2

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.1)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
	50	73.9	74.6	72.7	73.7	74.8	73.7	71.7	72.4	72.0	72.6	70.7	70.6	70.9	70.9	70.7	71.3	121.9
	63	72.2	69.8	75.9	73.0	81.9	78.8	69.9	67.0	71.1	81.8	69.9	68.9	66.8	68.2	67.0	68.1	125.4
RADIAL 100. FT.	80	66.6	66.6	64.3	64.7	65.5	65.3	64.3	64.4	63.7	65.1	65.6	63.5	62.6	62.8	62.5	65.4	114.3
( 30. 4)	100	69.0	67.9	64.9	67.9	66.7	66.6	66.8	65.0	64.1	65.5	65.7	65.5	70.8	68.9	71.9	66.1	117.3
VEHICLE ATT	125	67.1	68.1	65.9	68.2	65.3	70.0	69.1	63.9	67.1	64.8	65.1	69.7	68.8	66.1	69.3	65.1	117.5
CONFIG T/D	160	63.9	62.6	62.6	65.0	63.8	64.8	63.6	62.7	61.8	61.9	61.9	64.5	63.5	63.0	61.2	61.9	113.1
LOC PTO	200	68.1	67.8	67.7	67.0	67.0	66.9	64.8	65.1	62.9	63.6	61.7	62.8	62.6	63.3	62.9	62.2	114.5
DATE 7/31/74	250	76.3	75.2	74.7	73.0	72.1	71.8	69.9	69.9	66.1	65.0	64.0	62.8	64.9	64.5	67.0	64.1	119.0
RUN 509	315	73.8	73.6	73.2	73.8	73.0	72.7	70.8	68.7	66.1	66.6	64.9	63.9	64.9	65.2	65.2	61.9	119.3
TAPE A787	400	71.1	71.9	71.6	72.0	71.9	70.4	68.6	66.7	65.8	65.5	65.6	64.0	66.8	65.2	64.8	62.1	118.1
BAR 29.0 HG	500	71.9	71.8	71.7	70.8	69.5	68.7	67.7	66.5	64.9	65.4	64.5	63.7	64.8	66.0	65.0	62.7	117.2
(97827, N/H2)	630	79.4	77.3	79.0	78.2	79.6	75.9	75.9	74.1	75.4	72.1	71.0	67.8	68.9	69.2	69.4	65.3	124.7
1AMB 76. DEG F	800	77.3	77.0	80.2	79.3	75.8	78.9	74.9	73.8	75.8	71.9	71.6	72.9	73.0	70.0	68.1	64.9	125.2
(298. DEG K)	1000	79.6	79.4	80.0	79.5	78.2	79.0	78.0	74.8	74.1	72.1	71.1	72.9	73.0	71.3	68.4	65.3	125.8
1MET 63. DEG F	1250	84.1	83.3	83.9	83.2	83.9	85.8	83.9	82.0	80.3	78.0	78.8	76.9	76.1	75.1	73.0	68.0	131.5
(290. DEG K)	1600	87.4	85.1	85.8	85.3	84.3	84.8	84.1	80.4	78.1	77.9	76.7	77.3	74.2	76.5	49.1		132.2
MACT10.91 GH/M3	2000	88.3	87.0	89.0	89.1	87.2	89.0	89.0	89.1	83.3	81.4	80.1	76.1	80.1	75.2	76.1	71.1	136.0
(.01091 KG/M3)	2500	90.2	92.0	92.2	91.2	89.8	90.6	88.6	87.9	84.2	82.7	81.6	77.6	79.8	77.2	76.8	72.0	137.3
NFA 7544. RPM	3150	91.2	92.3	93.3	90.1	91.4	94.2	91.2	90.2	87.3	83.9	81.0	80.2	81.4	76.6	76.4	71.3	139.4
( 790. RAD/SEC)	4000	94.4	93.9	94.8	94.0	93.9	93.8	92.1	91.1	88.0	84.9	81.1	80.9	80.9	75.1	73.9	72.9	140.7
APK 7423. RPM	5000	94.2	95.4	95.2	93.5	96.2	93.0	94.0	92.3	91.3	87.2	85.0	81.2	81.5	79.6	79.3	73.2	142.1
( 777. RAD/SEC)	6300	93.7	94.3	94.2	90.7	93.4	93.2	90.5	89.2	86.4	83.4	82.4	78.2	79.6	76.8	75.6	71.6	140.1
NFD10620. RPM	8000	92.5	93.3	92.2	90.4	92.6	91.0	91.5	88.5	86.5	82.3	79.3	77.3	76.6	73.6	73.6	69.5	139.8
(1113. RAD/SEC)	10000	90.5	91.3	89.4	88.7	89.6	89.2	87.2	85.5	82.7	79.2	77.5	74.1	73.6	71.9	70.7	67.4	137.8
NO. OF BLADES 44	12500	86.7	87.5	86.5	84.6	86.4	85.2	84.1	83.3	79.8	77.3	73.4	69.3	69.5	66.4	65.7	63.4	135.7
	16000	82.6	83.4	82.4	80.8	82.4	82.6	80.4	78.4	74.7	75.2	68.5	67.3	65.9	63.7	63.8	61.8	134.0
	20000	78.0	77.8	76.6	75.9	76.8	76.6	74.3	73.5	70.9	74.4	63.6	64.5	64.7	62.8	64.7	61.6	131.6
OVERALL MEASURED		102.1	101.9	102.2	100.9	101.1	102.0	100.0	99.7	96.3	94.0	91.9	89.7	90.5	88.1	89.3	86.2	
OVERALL CALCULATED		101.9	102.5	102.5	100.9	102.1	101.7	100.5	99.2	96.6	93.7	91.4	89.1	89.9	86.9	86.7	82.6	149.3
PND8		115.1	115.3	115.0	114.5	115.4	115.0	113.7	112.2	110.3	107.1	105.1	102.7	103.4	100.6	100.4	95.8	

MODEL SOUND PRESSURE LEVELS (59, DEG. F., 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	50	75.9	77.5	73.7	75.8	75.9	78.7	73.7	74.8	74.6	75.4	74.6	74.7	73.5	77.3	75.6	72.9	124.9
	63	71.9	70.7	75.9	71.0	79.8	77.9	66.9	65.7	71.1	80.7	69.9	68.8	66.7	70.1	70.1	69.8	124.3
RADIAL 100. FT. ( 30. H)	80	66.8	67.5	65.3	64.8	65.5	65.3	62.4	62.6	63.8	65.5	64.5	62.7	63.3	66.7	64.6	65.4	114.4
VEHICLE ATT	125	72.6	70.4	69.1	70.5	70.1	68.1	71.1	70.2	70.1	64.1	69.1	67.0	68.1	67.4	67.3	66.1	116.0
CONFIG T/O	160	74.9	72.0	71.8	74.0	73.0	70.6	74.6	73.9	73.7	66.6	72.1	67.8	70.8	69.0	68.0	66.0	121.7
LOC PTO	200	65.0	64.7	65.8	66.2	66.2	65.8	64.7	63.8	63.0	63.6	62.7	62.7	62.7	64.3	63.9	63.2	114.2
GATE 7/31/74	250	69.0	68.8	71.0	71.2	71.1	69.9	69.8	70.7	65.1	66.8	66.0	63.0	65.8	65.1	65.0	63.8	118.1
RUN 510	315	70.2	70.8	73.8	74.0	75.1	72.7	72.7	72.9	68.0	69.8	69.7	64.9	67.9	67.2	67.1	65.1	121.0
TAPE A787	400	71.8	75.8	75.9	75.1	75.6	78.0	75.8	75.9	72.7	76.7	72.7	72.8	77.7	72.8	73.8	71.8	125.4
BAR 29.0 HG	500	73.7	79.8	79.6	75.6	74.9	78.8	81.7	78.7	75.6	80.5	72.5	70.7	74.5	81.1	82.8	78.9	128.9
(97827. N/M2)	630	83.3	87.2	90.0	90.4	84.1	92.9	93.0	92.0	91.1	91.1	92.3	92.0	89.1	89.4	88.5	84.0	141.2
TAMB 76. DEG F	800	88.1	88.9	91.8	94.0	87.2	95.7	95.0	96.2	93.9	93.6	95.8	96.0	94.0	90.3	84.3	79.0	144.3
(298. DEG K)	1000	90.6	90.2	92.0	95.2	94.1	97.9	97.9	94.0	93.1	93.8	92.1	87.0	90.2	85.6	88.5	87.1	144.3
TWET 63. DEG F	1250	99.0	97.0	98.1	100.3	99.8	96.8	98.9	100.9	96.8	97.8	94.1	94.1	96.8	90.1	93.0	86.2	147.7
(290. DEG K)	1600	98.1	99.1	94.9	94.3	92.3	93.1	93.9	95.9	93.3	92.8	91.2	88.2	88.8	85.5	85.0	81.1	143.0
WACT 10.91 GM/M3	2000	96.5	100.4	98.0	96.2	95.4	97.3	93.0	98.1	95.1	94.9	92.3	88.1	92.0	89.5	88.5	81.4	145.2
(.01091 KG/M3)	2500	97.3	98.1	96.7	96.9	96.8	96.7	92.7	94.0	93.2	92.6	91.0	85.8	86.8	87.1	84.9	78.9	143.8
WFA 8605. RPM	3150	96.3	96.1	96.5	92.5	94.1	96.0	93.9	94.2	92.1	89.1	87.5	86.3	86.0	83.5	82.4	76.2	142.6
( 901. RAD/SEC)	4000	97.2	97.1	95.9	94.2	94.9	94.8	93.0	94.2	91.3	88.7	85.9	85.8	85.1	79.4	79.5	76.0	142.6
WFK 8467. RPM	5000	96.5	95.4	94.1	93.5	96.2	92.3	93.0	92.1	92.5	89.9	89.2	84.4	84.0	81.5	80.8	75.1	142.4
( 887. RAD/SEC)	6300	95.8	94.4	93.2	90.7	92.4	94.2	90.4	89.6	87.8	85.1	85.3	81.3	82.3	79.9	78.8	72.3	140.5
WFD 10628. RPM	8000	92.6	92.6	91.5	89.6	90.6	90.5	90.2	89.0	86.6	86.2	82.3	80.5	79.3	75.6	74.4	71.6	139.5
(1113. RAD/SEC)	10000	90.6	90.5	85.4	86.7	87.7	88.3	87.3	85.6	83.7	82.4	80.6	78.5	76.3	73.5	72.7	68.7	137.4
NO. OF BLADES 44	12500	86.4	86.5	84.2	82.7	84.6	84.5	83.5	83.4	80.5	80.4	77.3	72.5	71.5	67.9	67.7	64.5	135.2
	16000	82.6	82.6	80.7	79.7	81.6	81.4	80.6	79.5	76.8	76.5	72.5	69.4	67.6	66.7	64.9	63.5	133.8
	20000	76.9	77.7	75.5	74.7	76.5	76.6	75.4	74.5	70.8	75.3	67.4	65.7	65.6	66.8	63.9	64.9	131.9
OVERALL MEASURED		106.4	106.9	106.0	102.0	105.1	105.7	105.1	105.9	104.2	103.9	102.1	101.2	101.1	98.1	97.0	93.3	
OVERALL CALCULATED		106.8	107.3	106.0	105.9	105.7	106.3	105.5	106.3	103.9	103.6	102.2	100.7	101.3	97.8	97.7	92.8	154.6
PWDB		119.2	119.5	116.5	117.9	117.8	118.4	116.9	117.6	115.3	114.7	113.0	110.1	111.5	109.0	109.2	102.7	

C-3

	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	76.7	77.5	73.0	76.3	75.8	78.8	73.7	74.4	74.8	75.6	75.5	74.3	72.8	77.3	75.6	72.8	125.2	
63	71.9	70.1	75.6	70.1	80.2	80.0	66.8	65.7	71.1	80.9	71.8	68.7	65.8	68.3	66.9	69.1	124.8	
RADIAL 100. FT. ( 30. H)	80	67.5	68.3	65.3	64.8	64.7	66.3	62.6	62.3	63.7	65.3	65.3	61.6	61.5	62.8	64.5	65.5	114.1
VEHICLE ATT	100	67.0	66.8	64.6	64.8	65.8	66.7	65.7	63.7	63.1	63.7	67.0	65.6	64.7	66.3	66.8	64.2	115.2
CONFIG 1/0	125	72.2	76.4	67.0	72.5	72.1	69.0	71.1	68.0	69.4	65.0	68.0	66.0	68.3	66.2	66.1	65.2	118.6
LOC PTD	160	74.9	72.7	70.5	76.3	76.1	70.6	74.4	70.8	72.8	68.7	70.2	67.5	76.8	69.1	68.0	66.7	121.8
DATE 7/31/74	200	67.0	66.3	65.9	65.9	65.9	67.9	65.1	64.0	63.1	64.9	62.8	61.6	62.7	67.3	64.0	62.1	114.4
RUN 510A	250	69.4	69.2	70.6	74.1	71.1	69.7	68.9	69.6	66.0	68.0	65.9	63.0	65.0	65.1	65.0	63.4	118.4
TAPE A787	315	67.9	71.8	73.8	78.1	74.9	71.7	71.9	73.8	68.1	71.1	69.8	65.8	68.9	68.2	67.1	65.1	121.7
BAR 29.0 HG (97827, N/M2)	400	74.1	75.7	77.8	76.1	75.7	77.8	76.9	72.5	72.8	75.6	71.6	71.8	77.1	72.2	74.0	71.0	125.1
TANG 76. DEG F (298. DEG K)	500	75.8	81.5	78.9	76.8	74.9	81.7	80.5	78.6	75.7	80.0	73.6	70.5	75.8	80.8	81.7	77.8	128.8
TWET 63. DEG F (290. DEG K)	600	88.1	89.9	90.7	94.0	88.1	96.7	95.1	93.7	93.9	95.7	91.0	92.9	93.1	93.1	85.9	80.2	143.7
+ACT 10.91 GM/M3 (.01091 KG/M3)	800	90.3	94.9	91.9	95.2	95.2	97.2	97.2	94.9	91.4	93.9	90.9	88.1	90.2	87.4	88.1	85.3	143.6
AFA 8600. RPM ( 900. RAD/SEC)	1000	98.9	98.1	98.0	100.9	99.0	99.0	97.8	101.0	99.1	99.7	95.8	94.0	96.1	90.1	91.1	84.2	148.3
RFK 8462. RPM ( 866. RAD/SEC)	1250	97.3	97.2	93.2	94.1	94.0	95.1	95.9	93.9	92.3	92.1	90.2	86.9	89.0	86.5	93.2	77.4	142.9
RFD10628. RPM (1113. RAD/SEC)	1600	96.1	98.7	94.2	95.5	95.4	97.2	96.3	98.2	97.2	93.1	93.1	87.0	89.2	89.3	87.1	82.1	145.2
NO. OF BLADES 44	2000	97.0	98.0	99.0	96.2	96.1	99.9	93.7	94.6	93.2	89.8	89.9	84.9	88.9	95.3	85.1	79.2	144.5
	3150	96.2	96.3	96.1	92.5	94.3	98.1	93.3	93.2	91.4	88.9	87.5	86.9	86.9	84.6	82.4	77.5	142.9
	4000	96.0	97.2	96.2	94.0	95.0	97.1	92.8	93.8	92.3	88.7	86.1	84.8	85.8	79.4	79.2	76.3	143.0
	5000	96.2	97.4	94.1	93.3	96.2	94.1	93.1	92.4	92.2	90.3	88.4	84.2	84.4	81.5	81.5	76.5	142.6
	6300	94.7	94.6	93.3	90.4	92.4	95.5	90.2	89.5	87.5	85.4	84.5	81.3	82.5	79.9	78.5	72.6	140.7
	8000	92.5	92.5	91.5	89.4	91.6	91.6	90.2	89.2	86.7	85.3	82.2	80.2	79.4	75.6	74.6	72.3	139.7
	10000	90.8	90.7	87.6	86.5	88.4	89.4	87.3	86.3	83.5	82.5	81.3	76.2	76.5	72.6	72.7	68.3	137.8
	12500	86.4	86.5	84.3	82.7	84.6	85.4	83.5	82.4	80.5	79.5	76.5	72.2	71.5	67.7	67.5	65.6	135.2
	16000	82.6	81.7	80.5	80.0	81.7	81.5	80.7	79.5	75.6	76.8	71.6	68.5	68.5	66.7	66.0	63.8	133.7
	20000	77.6	76.7	75.4	74.8	76.8	76.8	76.7	73.5	70.9	75.3	66.6	65.4	64.5	66.8	63.7	65.7	132.0
OVERALL MEASURED	106.1	106.8	105.8	101.7	105.1	107.1	105.1	106.0	104.0	104.0	101.1	98.7	100.7	99.1	96.9	93.3		
OVERALL CALCULATED	106.4	107.1	105.8	105.9	105.7	107.8	105.6	106.0	104.5	104.2	101.2	99.4	100.8	98.8	96.7	92.1	154.8	
PND8	118.6	119.5	119.0	117.6	117.7	120.5	116.8	117.4	116.1	114.3	112.6	109.8	111.1	109.1	107.4	102.9		

510A

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 PROC. DATE - MONTH 9 DAY 18 HR. 23.0  
 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	76.9	79.0	75.5	75.3	76.5	75.4	74.4	75.5	74.6	75.4	73.7	74.5	76.5	77.1	77.1	75.0	125.4
63	73.1	73.0	76.8	72.0	79.9	77.6	68.7	68.7	71.1	80.8	71.7	72.8	72.8	74.3	75.1	73.1	125.2
RADIAL 100. FT. (30. M)	80	66.8	69.3	67.7	64.8	65.7	65.3	63.6	63.5	64.8	70.2	69.5	70.4	71.6	70.7	73.9	118.9
VEHICLE ATT CONFIG T/O	100	68.0	67.9	66.7	65.8	63.8	64.6	65.8	63.6	62.3	62.5	69.6	71.7	70.8	71.2	74.0	118.5
LOC PTO	125	68.4	66.2	65.2	65.4	65.2	66.8	66.9	64.2	64.4	63.8	70.0	72.8	71.1	71.7	74.2	119.1
DATE 7/31/74	160	78.9	71.1	64.6	72.9	71.6	76.7	75.7	69.8	74.9	69.7	72.6	77.7	76.9	75.2	76.3	124.8
RUN 511	200	65.9	63.2	66.8	65.1	65.0	65.0	63.7	64.7	65.1	64.8	69.6	73.6	72.8	73.1	71.3	119.3
TAPE A787	250	68.3	68.1	69.1	67.0	69.8	67.9	68.7	68.0	66.1	62.7	70.0	74.8	73.7	73.1	74.1	120.8
BAR 29.0 HG	315	73.2	76.8	77.9	74.0	81.9	78.1	80.7	79.8	74.0	69.5	78.8	81.0	80.9	81.3	78.4	129.1
(97837, N/M2)	400	80.0	76.9	83.7	86.2	83.7	80.9	81.7	76.8	72.8	73.6	83.9	82.5	81.1	82.4	73.9	131.3
TAMB 77. DEG F	500	84.9	81.8	88.6	90.5	89.6	87.6	87.8	85.5	83.7	82.5	85.8	87.8	85.4	86.2	82.2	137.2
(298. DEG K)	630	84.0	87.2	87.2	90.5	91.0	95.9	96.1	97.9	97.4	94.8	95.1	95.9	93.3	83.7	95.8	145.2
INLET 62. DEG F	800	90.9	91.1	91.3	89.0	96.9	93.8	91.7	97.8	97.6	95.9	99.6	96.0	100.7	93.3	92.4	146.8
(290. DEG K)	1000	89.2	90.2	95.0	92.2	96.4	100.8	97.9	96.0	93.5	91.8	90.9	93.9	93.3	85.6	83.4	145.1
FACT 10.01 GM/M3 (.01001 KG/M3)	1250	94.2	95.2	103.1	100.2	99.0	96.7	93.7	95.7	95.9	91.9	93.7	94.7	90.0	88.1	87.5	146.0
AFA 9089. RPM	1600	98.4	98.9	99.0	97.2	94.0	96.1	93.0	91.8	91.4	88.7	88.0	89.9	85.9	82.5	84.5	142.9
(952. RAD/SEC)	2000	100.5	100.3	99.1	94.3	92.2	94.2	92.0	94.5	90.1	89.9	88.2	85.2	86.1	84.5	84.6	142.5
AFK 8939. RPM	2500	95.1	97.1	98.7	97.0	93.8	94.6	90.7	89.7	87.9	86.7	86.7	83.8	84.0	84.2	83.2	141.8
(936. RAD/SEC)	3150	95.3	95.1	97.1	92.6	94.1	94.2	91.3	90.5	88.5	86.1	84.2	84.3	84.3	81.4	80.8	141.0
AFO 10628. RPM	4000	98.2	95.1	95.0	93.5	93.0	92.1	90.8	89.9	88.1	86.0	82.1	83.0	82.1	76.5	76.4	140.2
(1113. RAD/SEC)	5000	94.3	94.1	93.4	92.4	94.2	89.1	91.2	89.2	88.5	87.1	85.1	81.2	81.2	78.7	79.0	140.0
NO. OF BLADES 44	6300	93.9	93.3	93.6	89.6	89.5	90.5	87.6	86.4	83.8	82.4	81.2	78.4	79.5	77.9	77.0	138.0
20000	8000	90.9	91.7	90.5	88.6	88.4	87.3	86.6	85.3	82.6	81.3	78.7	77.3	75.4	71.9	73.2	136.7
OVERALL MEASURED	10000	89.1	88.9	87.5	84.7	85.7	84.5	82.7	81.9	78.8	78.8	76.7	74.5	72.5	71.0	70.9	134.4
OVERALL CALCULATED	12500	84.9	85.6	83.8	80.9	81.9	80.6	79.6	78.6	75.7	75.4	73.5	71.5	68.9	66.1	68.0	132.1
PNDH	16000	81.4	81.0	80.2	76.5	78.5	77.8	75.9	74.8	71.3	73.8	69.9	70.7	65.8	65.5	70.6	130.0
	20000	77.7	76.5	77.2	73.7	73.6	72.4	71.4	69.4	68.2	73.3	66.5	70.2	69.4	66.8	67.6	130.0
		106.0	106.2	107.2	105.3	104.8	105.9	103.8	104.8	103.5	100.6	103.0	101.6	102.0	97.2	99.3	154.2
		106.5	106.5	108.1	105.6	105.6	106.1	104.0	104.7	103.7	101.6	103.0	102.3	102.9	97.3	99.0	
		119.4	119.0	119.6	117.8	117.2	117.2	115.0	114.9	112.8	111.2	112.0	110.7	111.7	107.4	104.1	



	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	78.9	79.7	76.9	76.8	79.7	79.6	75.6	77.7	75.8	75.6	73.5	72.4	75.5	77.2	75.8	73.9	126.3	
63	75.2	75.1	77.7	73.2	81.9	80.8	71.8	71.9	73.1	81.8	71.9	69.8	70.9	74.0	72.9	71.9	126.4	
RADIAL 100. FT. ( 30. M)	80	69.8	71.4	67.4	67.5	75.5	73.3	68.4	67.5	66.7	68.1	66.1	63.4	65.3	66.7	66.8	67.0	119.9
VEHICLE ATT	100	69.1	67.7	66.7	67.0	72.9	71.8	67.5	66.0	62.9	63.6	65.8	65.8	64.7	67.4	69.0	66.8	117.6
CONFIG T/O	125	69.1	66.2	64.2	65.3	71.2	70.8	66.9	66.0	63.1	62.8	65.1	66.9	67.1	67.4	69.4	66.3	117.1
LOC PTO	160	80.0	71.7	63.6	69.7	73.6	77.8	74.7	74.0	72.0	69.5	70.3	75.6	76.1	75.2	74.0	73.0	124.1
DATE 7/31/74	200	64.1	65.0	62.8	64.8	68.0	66.9	63.9	64.7	62.2	64.8	63.6	64.0	63.9	65.3	64.9	63.9	114.8
RUN 512	250	68.0	68.1	66.9	68.2	71.9	69.9	69.6	68.9	65.1	63.7	63.9	66.9	67.0	68.1	67.2	64.2	117.8
TAPE A787	315	76.0	77.6	75.0	80.2	84.1	81.8	83.9	82.0	77.1	70.7	73.7	80.1	79.9	81.4	78.4	71.8	130.3
BAR 29.0 HG	400	76.0	77.9	81.7	85.1	75.0	83.9	79.9	73.7	74.8	76.7	85.8	79.0	81.7	77.3	69.8	70.0	130.7
(97837. N/M2)	500	82.9	83.5	83.6	92.0	81.7	90.5	87.4	82.4	83.6	85.4	92.8	88.5	84.4	81.7	80.8	138.0	
TAMB 77. DEG F	630	82.2	82.0	90.0	85.2	90.7	96.2	97.1	94.0	95.5	95.8	93.9	94.8	90.9	90.6	97.2	95.1	144.8
(298. DEG K)	800	94.3	82.7	87.8	86.0	92.9	90.9	93.0	95.0	93.9	92.8	93.7	97.0	100.1	90.0	92.9	93.1	144.8
WET 62. DEG F	1000	88.3	90.2	94.1	95.9	97.3	100.1	96.9	96.2	93.3	93.0	92.2	91.9	89.3	88.4	84.4	84.1	144.9
(290. DEG K)	1250	92.1	95.9	100.7	96.3	96.9	96.7	93.9	96.0	92.0	92.8	95.7	90.9	90.8	83.1	84.2	82.3	144.5
WACT10.01 GM/M3	1600	97.3	99.0	98.2	95.2	94.2	93.8	93.8	91.8	88.1	87.8	89.1	87.0	86.0	82.5	86.0	79.1	142.1
(.01001 KG/M3)	2000	100.3	102.1	100.0	94.0	93.1	94.6	94.9	94.3	90.2	88.8	88.2	86.0	87.3	83.3	81.4	78.2	143.2
NFA 9184. RPM	2500	94.0	95.7	97.8	96.1	91.8	93.7	89.6	89.6	89.0	86.7	84.7	81.9	84.0	82.1	79.9	77.9	140.9
( 962. RAD/SEC)	3150	95.4	95.1	97.0	92.4	93.4	93.2	89.1	89.9	88.3	85.9	83.2	81.9	82.1	79.6	79.5	75.1	140.3
NFK 9033. RPM	4000	99.2	96.2	94.0	93.2	95.3	91.1	87.9	88.9	87.3	84.8	81.9	81.0	81.2	76.3	75.3	73.2	139.9
( 946. RAD/SEC)	5000	94.7	96.1	92.3	90.6	93.5	88.4	89.8	87.0	88.4	86.3	85.0	80.4	80.5	78.5	76.5	72.2	139.1
NFD10628. RPM	6300	93.7	93.7	92.6	88.1	88.5	89.4	85.5	84.6	82.8	81.5	81.6	77.1	80.5	77.2	75.6	70.7	136.9
(1113. RAD/SEC)	8000	90.9	91.4	90.5	88.0	88.5	86.6	86.4	84.4	81.6	80.4	78.4	76.3	75.6	71.9	71.8	68.5	136.3
NO. OF BLADES 44	12500	89.9	89.7	86.6	83.8	84.7	83.7	81.7	81.0	77.8	77.5	75.7	71.6	71.8	69.9	69.8	64.8	133.6
16000	84.8	84.5	83.0	80.9	80.9	79.9	78.9	77.5	74.7	74.5	71.5	69.8	68.6	64.1	66.0	60.7	131.3	
20000	77.6	76.4	76.5	72.9	73.6	71.4	70.1	68.2	66.6	75.2	64.3	65.1	63.3	62.6	64.7	60.3	129.3	
OVERALL MEASURED	106.2	106.6	107.1	104.1	104.8	105.7	103.7	103.6	102.0	100.9	101.1	101.0	101.8	96.1	100.1	98.1	153.5	
OVERALL CALCULATED	106.4	107.0	107.2	104.4	104.8	105.5	104.8	103.6	101.7	101.3	101.4	101.2	102.1	96.5	99.5	98.9		
PND8	119.8	119.9	119.1	117.0	117.3	116.6	115.0	114.3	112.1	110.7	110.3	109.6	111.0	109.9	107.9	105.4		

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
FREQ. (0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
90	79.0	79.8	77.1	78.5	78.9	78.0	79.8	77.4	76.0	75.8	72.7	73.0	75.9	76.8	75.7	78.2	126.2
63	79.4	79.4	79.4	77.1	83.4	81.5	72.6	72.9	73.5	62.6	70.4	72.5	75.1	76.2	76.2	75.4	127.8
80	68.9	69.6	68.5	68.4	68.5	67.9	64.8	65.1	66.7	66.8	64.8	63.5	66.3	67.7	68.8	69.7	116.8
100	69.0	68.7	67.9	67.0	65.7	66.0	66.3	64.5	63.0	63.0	65.0	67.8	65.8	68.7	70.0	68.4	116.4
125	66.1	66.2	66.2	67.0	64.2	66.6	66.1	64.7	63.1	62.5	65.0	68.2	67.2	69.1	70.1	68.3	116.6
150	80.8	73.7	68.1	77.1	76.8	78.0	69.1	75.5	68.0	70.1	74.0	76.8	75.0	76.1	75.9	77.2	175.0
200	65.3	64.1	64.0	65.8	65.8	65.3	64.1	63.9	63.2	64.2	63.4	63.9	65.0	64.8	65.0	64.9	114.6
250	68.1	67.1	68.2	68.8	69.1	69.0	66.1	65.8	64.1	64.2	66.0	65.2	66.9	65.1	65.3	64.8	116.5
315	76.1	74.9	80.3	83.9	83.8	84.1	79.5	80.9	77.2	78.2	80.9	78.4	79.0	72.2	70.9	72.1	130.2
400	71.3	70.1	78.0	79.7	80.9	78.8	79.5	78.8	77.1	78.1	74.9	76.0	73.8	74.2	76.2	70.4	127.6
500	78.8	76.9	88.4	89.8	90.8	89.8	90.2	88.7	88.2	88.9	89.9	87.1	83.0	84.8	87.2	88.4	138.2
630	81.2	86.3	84.3	88.2	95.3	90.2	92.3	94.0	93.5	90.3	88.1	87.5	88.4	79.8	87.6	84.7	141.0
800	87.4	87.3	84.4	93.1	91.8	91.0	94.2	89.7	91.1	88.2	84.1	91.2	92.9	84.3	78.2	80.7	140.6
1000	89.3	91.4	89.4	89.4	91.2	96.0	95.3	94.2	91.5	92.5	91.4	88.4	85.0	87.3	87.8	78.8	142.2
1250	88.3	89.3	91.2	92.1	94.8	92.8	93.1	91.3	88.4	88.3	86.9	86.1	83.9	82.1	83.4	76.4	140.4
1500	96.3	98.3	95.4	95.7	92.0	90.4	90.3	89.8	86.4	85.4	84.2	83.5	83.3	80.3	81.4	76.7	139.6
2000	101.0	99.2	91.7	94.2	89.1	92.6	96.5	89.3	85.6	84.5	82.5	81.4	85.3	81.4	80.4	74.8	139.5
2500	93.1	95.2	95.4	94.0	92.8	92.0	87.2	88.1	86.5	84.4	83.3	80.1	81.2	81.1	79.2	74.5	139.3
3150	93.6	94.1	94.6	91.6	89.3	91.5	87.4	87.0	84.6	82.6	81.3	80.6	81.5	77.4	77.5	72.7	138.0
4000	94.3	95.0	92.2	91.9	88.9	89.2	87.2	85.9	83.3	80.4	77.1	79.5	79.0	74.1	74.3	70.5	137.2
5000	91.5	92.3	89.8	90.3	89.4	86.3	86.7	85.1	84.4	81.5	80.6	77.6	77.5	75.5	75.3	70.6	136.4
6300	90.9	89.8	89.0	87.4	85.3	86.5	82.8	82.6	79.7	77.9	77.0	77.0	77.6	74.8	74.9	68.2	134.2
8000	88.1	86.7	86.0	85.5	84.4	83.0	82.8	81.0	78.8	76.9	73.9	74.8	73.9	69.9	70.8	66.3	132.9
10000	86.1	85.9	83.1	81.9	80.4	81.0	77.9	75.7	74.7	73.1	72.0	69.8	70.6	68.0	67.9	64.1	130.2
12500	81.2	82.6	79.1	78.1	77.8	77.1	74.2	73.7	71.2	71.0	68.2	66.9	66.1	64.0	65.1	62.2	128.0
15000	77.2	78.0	74.4	74.4	74.0	73.7	71.2	68.9	66.1	73.5	64.3	65.5	65.2	65.2	64.2	63.4	126.9
20000	72.7	72.8	71.1	69.4	69.4	69.7	66.8	64.3	63.2	74.5	63.8	65.5	63.6	66.6	65.6	65.9	127.4
MEASURED	104.0	105.2	103.4	102.8	102.7	102.3	101.3	101.0	99.3	98.2	97.1	97.8	96.8	94.3	95.3	92.5	
CALCULATED	104.8	105.0	103.0	102.6	102.8	102.5	102.0	101.0	99.3	98.4	96.5	96.6	96.8	93.2	94.2	90.0	
PROB	118.1	117.5	116.1	115.5	114.7	114.4	112.1	111.4	109.5	108.0	106.5	105.8	106.5	103.9	103.5	99.3	150.4

MODEL SOUND PRESSURE LEVELS (99. DEG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100: FT.	90	79.0	80.7	76.9	78.8	78.7	77.7	75.5	77.4	75.8	79.7	72.7	72.9	75.9	75.0	74.0	126.0	
(30: M)	63	78.3	79.6	79.4	78.3	83.3	80.5	73.2	73.2	74.2	81.7	71.5	72.3	77.5	75.2	75.7	127.7	
VEHICLE AIT	100	69.3	70.7	68.7	71.5	67.5	67.6	64.7	65.4	66.7	66.5	65.5	63.5	64.7	66.5	66.7	66.9	116.0
CONFIC T20	120	68.9	68.9	67.9	68.8	65.7	66.8	67.0	65.4	63.2	63.9	64.9	67.8	65.0	67.0	69.1	66.1	116.3
LOC RTD	160	68.4	66.2	65.1	71.2	66.1	67.8	67.3	66.7	63.5	63.2	65.3	68.1	66.2	69.2	70.3	67.4	117.1
DATE 7/31/74	200	80.8	72.0	68.1	76.9	77.8	79.0	70.1	76.6	68.9	71.0	77.1	76.0	73.7	77.3	76.8	77.1	125.7
RUN 514	250	65.3	64.0	64.1	65.8	65.9	65.9	63.9	63.8	63.3	64.2	63.1	64.0	65.1	65.9	65.0	64.4	114.6
TAPP AY03	300	68.1	66.9	67.0	67.8	66.7	66.2	65.0	63.8	63.4	63.2	65.1	65.2	66.2	65.9	65.0	64.2	115.4
BAR 29.0 HG	350	75.9	73.8	76.2	80.8	78.7	76.1	71.2	71.8	68.9	75.1	79.6	78.1	78.2	71.9	70.0	70.3	126.3
(97837: N/M2)	400	70.3	73.1	78.2	80.0	77.6	79.2	77.4	76.6	73.2	75.3	73.1	75.0	74.9	73.1	77.3	71.3	126.7
TAMP 78: DEG F	450	80.1	82.9	89.1	90.8	89.8	91.0	88.9	86.9	84.1	86.3	84.9	86.2	85.1	89.2	89.0	83.0	138.1
(299: DEG K)	500	81.5	86.3	83.5	86.3	91.0	94.6	91.4	96.0	94.6	87.4	86.4	91.6	91.6	83.5	88.6	82.7	141.7
THET 62: DEG F	550	90.3	84.0	84.2	94.9	95.1	91.2	94.4	85.8	86.2	83.5	86.2	88.1	88.3	87.4	78.3	77.4	140.1
(290: DEG K)	600	90.5	91.3	91.3	86.3	90.2	95.2	92.5	93.9	89.2	86.6	89.6	85.4	86.2	87.2	81.5	77.5	140.0
HACT 9.22 G/M3	650	88.4	87.0	91.3	89.9	93.8	91.1	92.0	96.7	87.4	86.1	87.0	84.1	89.0	84.1	80.2	73.1	139.6
(100922: KG/M3)	700	93.3	94.0	93.6	94.2	92.1	96.7	89.4	89.2	86.4	85.9	84.6	79.7	87.5	80.3	78.7	74.5	139.1
NFA 9440: RPM	750	98.7	93.4	91.5	91.2	89.4	89.5	87.4	85.9	85.6	83.7	82.7	81.6	83.6	82.5	78.7	75.8	137.2
(988: RAD/SEC)	800	93.3	92.2	93.2	90.0	88.1	90.5	86.2	87.1	86.4	85.2	83.2	81.3	81.1	79.3	78.2	74.5	137.3
NFK 9.7: RPM	850	91.7	91.4	92.4	89.4	87.3	89.7	87.6	87.0	83.7	80.6	78.6	79.5	80.6	77.7	76.6	72.5	136.5
(871: RAD/SEC)	900	91.3	92.2	91.4	90.0	87.1	88.3	85.2	84.9	82.4	80.4	76.6	77.4	78.2	73.0	74.1	70.5	135.7
NFD 10628: RPM	950	89.6	90.4	88.7	88.8	88.6	85.4	84.4	83.4	83.6	81.1	78.9	76.7	77.5	74.7	75.4	69.9	135.0
(1113: RAD/SEC)	1000	88.9	87.6	87.8	85.5	84.4	85.7	80.9	80.5	77.8	76.1	77.1	76.7	77.8	74.7	74.9	68.3	132.5
NO. OF BLADES	1050	86.3	86.8	85.1	82.9	82.8	82.3	81.2	80.0	76.9	75.3	73.0	74.1	73.8	70.1	71.2	65.5	131.4
OVERALL MEASURED	1100	83.1	83.1	81.4	79.9	79.2	79.3	77.0	74.8	74.2	71.4	71.2	69.3	70.2	67.1	68.3	62.4	128.7
OVERALL CALCULATED	1150	79.8	79.4	78.5	76.5	76.2	76.5	73.4	72.3	70.7	70.7	67.9	66.6	67.5	63.5	64.6	59.8	126.9
PROB	1200	75.2	75.4	74.0	72.9	72.8	72.0	70.1	68.7	69.1	73.2	66.9	65.8	66.8	65.1	65.0	61.1	126.3
	1250	70.7	70.2	69.9	69.3	70.1	69.4	67.7	64.1	67.5	77.4	63.6	65.6	66.7	65.4	65.6	62.7	128.7
		102.4	102.1	101.4	100.8	101.8	102.3	100.0	100.7	98.6	96.1	96.3	96.0	97.1	95.3	94.3	91.4	
		103.1	101.7	101.8	101.7	101.7	102.2	100.7	100.8	98.7	95.8	95.8	96.0	97.1	95.0	93.8	89.2	
		116.3	114.5	114.6	113.5	112.3	113.3	111.1	110.7	108.8	107.3	106.1	105.3	106.8	104.2	103.0	98.7	149.6

MODEL SOUND PRESSURE LEVELS (99. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100: FT	90	78.1	79.9	76.9	78.9	78.6	77.7	76.7	77.7	76.1	77.0	74.0	73.8	74.6	75.7	75.9	74.1	126.3
(30: M)	63	77.6	76.3	78.6	77.4	83.1	81.4	74.2	74.9	73.3	82.5	73.6	72.2	75.2	77.2	76.3	76.7	127.9
VEHICLE 100: AYT	100	69.4	70.1	69.5	78.2	69.2	69.6	67.5	69.1	68.6	70.7	69.5	67.4	68.4	69.3	69.8	69.7	119.0
CONFIG 100: TCO	125	68.9	67.9	68.0	67.8	69.6	67.8	65.2	66.7	64.9	68.8	67.1	66.9	66.8	67.7	68.2	68.1	116.8
LOC PTD	160	69.2	68.2	68.4	65.8	66.0	70.3	68.3	69.9	65.2	68.1	69.1	69.2	68.2	70.8	71.2	69.3	118.7
DATE 7/31/74	200	68.0	69.9	70.1	67.0	71.5	75.9	72.1	77.7	72.1	69.8	68.9	66.8	69.8	72.7	74.1	68.9	122.5
RUN 515	400	70.0	72.0	72.1	69.9	73.0	78.1	74.2	79.7	73.9	71.2	70.2	67.0	72.1	74.7	76.0	68.3	124.5
TAPP 4903	600	66.2	65.7	66.4	67.0	66.8	67.2	66.2	65.7	64.9	69.0	64.3	65.0	67.2	67.8	68.2	67.2	116.3
BAR 29.0 HG	800	67.3	68.1	70.2	71.0	71.7	71.0	70.2	69.6	67.2	68.2	67.2	69.0	67.2	70.8	71.1	67.5	120.0
(97790: N/M2)	1000	68.3	71.9	72.2	73.0	70.0	72.1	71.1	68.8	70.0	68.2	68.2	72.2	75.0	73.1	72.3	68.5	121.6
TAMP 79: DEG F	1200	69.1	72.0	72.2	72.9	72.7	71.0	69.2	71.7	69.9	68.9	71.2	69.1	73.7	74.7	71.9	68.1	121.7
(299: DEG K)	1600	69.6	70.2	72.4	72.1	71.3	70.6	69.5	70.0	69.3	69.5	69.3	69.4	71.3	72.4	72.6	68.4	120.8
TMEY 62: DEG F	2000	71.3	72.5	74.1	76.1	72.1	71.3	71.1	71.8	70.3	70.4	70.3	70.3	72.1	72.1	70.3	68.3	121.8
(290: DEG K)	2400	71.5	73.6	75.3	75.2	73.3	72.5	72.5	71.9	71.9	71.4	71.3	72.4	74.1	74.4	72.4	67.6	123.1
HACT 9.31 GH/M3	2800	74.3	74.2	77.3	78.3	79.0	74.2	74.3	73.7	72.3	72.0	74.3	75.3	74.9	74.9	74.3	68.4	124.9
(.00931 KG/M3)	3200	73.4	74.5	76.3	77.4	74.1	74.4	74.3	72.9	71.9	72.2	72.4	74.5	76.2	74.5	73.5	67.4	124.6
NFA 7.81 RPM	3600	73.3	76.3	76.3	80.2	77.3	76.5	75.4	75.2	75.6	75.3	73.3	77.4	76.5	76.7	76.6	68.7	126.0
(1125: RAD/SEC)	4000	74.2	76.1	78.4	81.4	79.0	78.2	77.7	75.0	75.1	74.4	75.1	77.3	77.3	78.2	78.4	70.3	127.6
NFK 10.547: RPM	4400	73.3	75.5	78.4	79.3	77.5	78.6	77.6	77.2	77.5	76.5	81.6	77.4	78.5	77.8	77.2	69.4	128.8
(1104: RAD/SEC)	4800	75.4	76.1	78.3	80.4	80.1	78.2	74.4	76.0	76.4	79.1	77.2	81.4	75.3	77.1	71.3	71.3	128.5
NFD 86.8: RPM	5200	74.4	76.4	76.7	79.8	78.6	76.7	76.4	76.2	77.6	75.8	77.6	79.9	77.8	78.7	77.6	68.9	128.8
(1113: RAD/SEC)	5600	73.0	74.7	77.8	78.0	76.6	77.0	74.0	73.4	72.0	72.8	73.6	75.0	75.9	75.8	75.9	67.1	126.5
NO. OF BLADES 44	6000	72.3	74.1	77.3	78.1	77.0	77.2	78.1	76.7	77.2	74.1	75.3	77.2	76.2	73.2	75.2	67.2	128.5
OVERALL MEASURED	6400	69.4	70.4	71.1	71.9	71.9	72.3	71.1	70.9	70.2	70.1	71.3	72.3	72.1	71.3	71.0	63.4	124.2
OVERALL CALCULATED	6800	68.5	66.3	67.6	67.5	67.3	68.4	67.5	67.1	66.3	68.7	66.5	68.4	68.5	65.8	67.9	61.8	121.6
	7200	67.7	64.9	66.0	65.6	65.6	67.1	65.9	65.7	66.1	73.9	64.0	67.2	67.0	64.8	66.9	64.2	123.9
	7600	67.7	65.3	64.4	65.5	65.2	67.7	64.5	64.0	67.1	75.3	63.6	66.5	66.5	65.4	67.5	66.6	127.1
	8000	90.9	90.7	89.3	92.1	91.8	91.6	91.0	91.9	91.1	91.0	90.0	90.2	90.6	90.3	92.0	89.3	127.1
	8400	86.7	87.9	89.2	90.5	89.9	89.6	87.8	88.3	87.2	88.2	87.3	88.0	89.0	88.6	88.5	83.7	139.5
	8800	99.0	100.2	102.0	103.5	102.7	102.1	100.8	100.7	100.4	99.7	101.6	101.5	103.1	101.5	101.3	95.2	139.5

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	79.8	79.7	77.0	79.6	78.6	78.1	76.0	76.6	76.2	75.8	73.0	74.0	74.9	75.6	75.9	75.2	126.1
	63	78.6	78.1	79.5	76.1	83.1	80.4	72.3	71.1	73.7	82.6	71.4	72.5	75.4	75.4	75.5	76.7	127.5
RADIAL 100: FT:	80	72.7	69.6	68.6	70.5	68.2	68.6	65.6	66.1	67.6	67.6	64.9	65.7	64.9	65.7	66.4	68.4	117.3
(30: M)	100	72.9	68.7	68.3	68.6	65.9	67.2	66.1	63.6	64.2	63.3	65.1	66.1	65.8	64.9	66.8	69.2	118.0
VEHICLE ALT	125	72.6	66.7	67.5	68.9	66.9	67.4	66.3	64.8	64.5	62.5	65.1	66.4	66.2	66.2	68.3	69.5	116.4
CONFIG T=0	150	79.9	70.7	69.0	78.9	75.9	77.1	76.1	74.4	73.1	71.2	76.3	75.9	71.8	77.1	78.9	76.2	125.4
LOC BT	200	74.2	63.8	67.1	67.0	66.7	66.9	63.1	62.8	63.0	64.0	63.2	64.3	63.9	65.0	64.9	64.2	114.7
DATE 7/31/74	250	74.0	66.2	71.2	69.7	68.7	66.9	65.0	64.6	63.3	63.4	65.2	65.1	66.1	65.7	65.9	64.3	116.2
RUN 516	300	74.0	72.9	79.5	83.0	81.8	78.2	73.2	73.9	71.1	76.2	80.6	78.1	78.1	70.8	72.1	72.1	127.0
TAPE	350	75.0	72.1	78.4	81.0	78.7	79.1	77.1	75.5	74.0	74.3	72.9	74.0	75.1	78.0	77.0	72.2	126.0
BAR 29.4 HG	400	82.2	80.7	90.1	92.0	88.7	91.0	88.9	87.8	85.0	85.2	84.2	84.9	85.8	89.8	86.2	83.8	138.0
(07790: N/M2)	450	83.3	87.5	87.6	88.5	91.4	94.5	91.3	96.0	93.5	87.3	89.4	91.5	89.2	87.3	89.6	81.6	141.7
TANR 79: DEG F	500	89.1	83.8	85.0	94.0	95.0	92.4	93.3	87.1	88.5	89.5	85.1	87.4	89.0	85.6	78.3	75.3	140.0
(299: DEG K)	1000	88.5	91.1	90.4	87.0	89.3	93.4	92.5	91.9	88.5	87.5	86.3	86.3	86.2	85.4	81.4	77.7	139.7
TWEY 62: DEG F	1250	89.2	88.0	90.4	91.1	93.8	92.1	91.1	91.0	88.0	89.1	88.3	85.0	89.0	83.3	81.2	72.2	139.9
(290: DEG K)	1500	93.4	93.1	93.4	92.4	92.2	89.4	87.6	89.9	86.2	85.6	86.5	81.3	86.5	80.5	79.7	74.5	138.6
MACT 9.31 G4/M3	2000	97.6	94.3	92.4	90.2	88.3	91.6	87.7	85.9	83.5	82.5	81.4	80.3	81.5	80.5	75.6	72.6	137.2
(.00931 KG/M3)	2500	92.1	93.0	93.3	91.5	90.2	92.4	86.1	87.0	85.3	83.3	82.5	79.4	80.9	80.1	80.2	73.5	137.0
NFA 944: RPM	3000	91.4	91.2	92.3	89.5	88.3	88.7	86.6	87.3	85.1	82.5	79.6	79.3	79.6	76.6	76.3	72.5	136.5
(988: RAD/SEC)	4000	91.3	91.1	91.3	90.5	88.1	89.3	84.5	84.1	82.2	80.5	77.4	78.4	79.2	72.3	73.1	70.4	135.8
NFK 9263: RPM	5000	91.7	91.4	87.8	87.5	89.4	85.6	84.8	83.1	83.6	80.6	78.6	77.5	77.7	74.6	75.6	69.7	134.9
(770: RAD/SEC)	6000	88.9	87.8	87.7	84.7	84.5	85.7	80.8	80.7	77.9	76.9	76.0	75.6	76.6	74.8	74.7	68.0	132.7
NFD 10628: RPM	8000	86.0	86.0	85.1	84.8	82.9	82.2	81.1	79.1	77.9	75.1	73.2	73.8	73.1	69.9	70.9	65.4	131.5
(1113: RAD/SEC)	10000	94.1	82.9	81.3	80.2	80.1	79.3	75.3	74.6	73.2	71.2	70.3	69.9	69.2	67.2	67.4	61.6	128.5
NO. OF BLADES 44	12000	80.5	79.3	77.5	76.6	75.2	76.7	72.7	72.3	70.3	70.5	67.6	66.6	66.6	64.4	64.6	59.6	126.5
	15000	78.1	75.7	74.0	72.7	71.8	73.2	70.0	68.8	68.0	74.8	65.1	65.6	65.7	65.8	65.1	60.0	126.5
	20000	80.6	71.5	69.7	69.2	68.5	70.5	67.6	65.2	67.6	75.7	64.8	66.6	65.6	68.3	66.7	61.6	128.1
OVERALL MEASURED		102.3	101.9	102.0	101.0	102.1	101.7	100.0	100.6	96.2	96.3	96.0	96.2	96.2	95.2	95.0	91.3	
OVERALL CALCULATED		102.6	101.7	101.9	101.7	102.0	102.2	100.5	100.5	98.2	98.3	96.1	95.8	96.5	94.9	94.1	88.8	149.5
FROM		115.9	114.4	114.7	113.7	113.1	114.1	110.5	110.6	108.6	106.8	105.9	105.2	106.1	103.9	103.5	98.1	

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.
50	80.2	80.8	77.8	80.0	78.9	78.9	78.1	78.5	78.0	76.9	75.1	75.9	75.8	76.9	76.0	76.2	127.2
63	81.9	82.2	82.7	81.7	84.2	82.5	77.5	74.8	76.5	84.3	76.6	77.5	72.6	74.1	77.6	73.4	129.6
80	71.8	72.6	71.8	71.5	78.2	69.8	68.4	68.1	68.7	69.6	68.7	67.6	67.6	68.8	69.5	68.6	119.1
100	69.2	68.9	68.2	68.6	68.9	68.0	68.4	68.6	65.8	69.0	66.2	66.1	67.0	66.9	67.0	67.0	116.5
125	70.3	67.2	67.4	68.0	66.8	69.3	67.2	69.9	66.1	65.0	67.6	67.2	68.3	68.2	68.3	67.6	117.7
150	71.1	73.0	73.8	72.6	75.8	77.1	74.1	76.6	71.1	69.8	67.4	69.0	71.1	72.9	75.1	69.2	123.7
200	73.9	75.8	76.2	74.6	77.9	80.2	77.3	80.6	73.0	71.2	67.3	69.8	72.3	74.8	77.0	69.4	126.0
250	67.2	66.1	67.0	66.7	69.8	67.0	65.3	66.8	65.9	66.2	65.2	64.8	65.1	67.1	67.2	66.4	116.5
315	68.2	67.0	69.2	70.0	70.9	69.2	68.1	66.6	67.3	67.3	67.2	68.1	71.1	70.2	69.2	66.2	118.8
400	68.2	70.0	72.2	72.0	72.8	69.2	69.1	65.6	69.2	67.1	68.2	70.1	73.3	71.8	71.8	66.4	120.4
500	70.1	73.0	73.0	73.7	74.6	73.8	69.0	71.7	71.1	70.2	69.9	69.8	74.9	76.9	74.0	68.2	122.4
630	69.6	71.1	72.6	72.3	71.3	71.5	69.5	70.1	66.6	69.6	69.9	69.4	71.6	71.3	72.3	67.6	120.0
800	71.2	72.1	74.4	76.0	71.8	72.0	70.3	70.9	70.3	70.4	70.3	70.2	71.3	71.2	70.4	65.5	121.6
1000	72.3	73.3	74.4	74.9	73.2	72.4	72.4	72.1	71.4	71.3	72.2	73.4	73.5	73.2	72.4	66.6	123.0
1250	74.2	74.1	75.4	78.9	75.8	76.3	76.3	73.7	73.2	74.2	74.9	76.9	75.3	74.0	74.3	69.4	125.8
1500	75.4	74.3	76.3	77.0	74.3	75.2	74.5	73.1	72.5	72.5	72.3	75.3	75.6	73.3	73.3	67.5	124.6
2000	75.6	75.5	76.6	79.5	76.5	77.3	75.3	75.1	74.4	74.6	73.2	77.5	75.6	76.5	76.4	69.7	126.7
2500	75.2	77.2	78.5	81.2	79.0	78.3	77.6	75.8	74.1	74.9	76.2	76.3	77.4	78.4	77.4	70.5	127.9
3150	76.5	77.3	79.4	79.3	77.5	77.5	79.6	77.0	77.7	75.6	80.4	77.5	78.6	78.6	78.4	69.6	129.2
4000	76.4	77.4	79.7	81.3	81.0	79.5	75.1	77.0	76.1	79.1	76.5	78.3	81.3	75.3	77.1	71.3	129.1
5000	75.7	77.7	78.8	80.6	79.5	76.5	77.7	76.1	78.8	76.8	78.6	80.6	79.1	78.5	77.8	69.9	129.6
6300	76.9	74.8	78.9	76.8	76.7	78.0	74.8	74.4	72.7	72.7	75.7	75.8	76.9	75.9	77.0	69.0	127.3
8000	73.3	76.1	77.3	77.8	78.0	78.0	80.1	79.9	76.2	79.3	78.1	78.1	77.2	72.8	73.9	68.3	129.7
10000	71.2	72.3	72.3	73.1	73.8	73.4	73.3	71.7	72.0	71.4	72.3	74.0	74.3	72.0	73.1	64.6	125.6
12500	67.7	68.3	69.5	69.2	70.2	69.6	69.4	68.2	67.6	70.4	68.6	69.3	70.5	67.3	69.5	60.9	123.3
15000	68.1	67.8	67.4	67.1	69.9	69.0	69.0	66.5	66.6	73.8	66.0	69.2	66.9	68.1	62.0	125.0	
20000	66.9	68.4	64.9	65.3	69.4	69.7	65.7	64.3	67.6	76.4	65.5	67.7	67.8	68.5	68.6	62.0	128.3
25000	92.3	91.9	91.3	92.9	92.8	92.3	91.3	91.2	90.3	91.1	91.3	91.1	91.1	91.1	91.1	89.8	140.2
31500	88.8	89.4	90.5	91.1	90.9	90.4	89.0	88.9	87.6	88.9	88.0	88.8	89.2	88.4	88.8	83.4	140.2
40000	100.5	101.3	103.1	104.1	103.5	102.7	102.0	100.9	100.9	99.6	101.9	102.1	103.2	101.6	101.7	95.2	

REPRODUCTION OF THE ORIGINAL PAGE IS POOR

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL	
	(0,0)	(0,17)	(0,35)	(0,52)	(0,70)	(0,87)	(1,05)	(1,22)	(1,40)	(1,57)	(1,75)	(1,92)	(2,09)	(2,27)	(2,44)	(2,62)		
ENCO.	90	79.2	81.5	77.9	79.7	78.6	79.3	77.9	78.6	77.9	77.1	75.1	74.7	75.9	76.7	75.7	75.2	127.2
	83	81.6	81.8	81.5	80.2	83.0	81.6	76.6	74.1	75.2	83.6	75.4	76.4	71.2	74.0	75.2	72.6	128.0
RADIAL 100: FT.	80	71.5	72.3	70.6	70.4	69.4	68.6	67.7	67.1	68.0	68.7	68.5	66.5	66.6	67.5	68.7	67.8	118.3
(30: M)	100	68.1	67.9	68.2	67.0	65.8	66.9	65.0	66.8	64.0	63.9	64.9	65.8	67.0	65.8	65.9	66.2	115.9
VEHICLE AIT	120	68.4	67.1	65.2	67.2	66.8	69.2	66.3	68.9	65.9	65.4	65.5	67.2	68.2	66.2	68.3	68.4	117.2
CONFIG TED	160	70.1	72.9	73.1	71.0	75.6	78.0	73.1	78.0	72.1	70.0	67.0	65.0	70.8	73.0	73.9	69.1	123.0
LOC PTO	200	73.1	75.8	76.1	73.6	78.0	80.3	75.9	81.5	74.5	72.0	67.0	70.1	72.0	74.8	76.9	69.3	126.2
DATE 7/31/74	250	67.0	65.9	66.0	66.0	65.9	66.2	66.0	65.9	65.2	66.0	65.3	65.0	67.1	66.8	67.3	66.2	116.1
RUN 518	315	67.2	68.4	68.3	69.2	70.9	68.2	67.4	66.8	66.2	66.0	67.2	68.0	71.0	70.0	69.2	66.5	118.5
TAPP AY03	400	68.1	71.1	72.2	72.0	72.9	70.1	68.3	65.8	68.1	66.2	68.8	70.2	72.8	72.1	71.1	66.3	120.2
BAR 29.0 HG	500	70.0	73.0	72.0	73.6	73.7	72.1	69.0	71.7	71.1	68.9	70.2	69.0	75.7	76.8	74.0	67.2	122.8
(97790: N/M2)	630	69.3	70.2	71.6	72.3	71.1	71.5	69.5	70.1	68.4	70.5	70.4	69.5	71.4	72.2	72.5	66.7	120.9
TAMR 79: DEG F	800	70.2	72.2	74.2	75.8	72.0	72.1	70.3	72.0	70.2	71.2	70.2	69.3	71.0	71.9	71.1	65.5	121.5
(299: DEG F)	1000	71.5	73.1	74.2	74.1	73.1	72.5	72.5	72.1	71.4	71.5	71.7	72.4	73.3	73.2	72.5	67.4	122.0
T ET 62: DEG F	1250	74.3	74.0	77.3	79.1	75.0	74.0	75.1	73.6	72.4	74.0	75.0	75.0	74.1	73.1	75.2	69.4	125.1
W (290: DEG K)	1500	73.2	74.5	76.6	77.3	74.2	74.5	73.4	74.1	71.7	72.2	72.3	75.1	75.4	73.4	73.3	66.6	124.5
HACT 9.3 GM/H3	2000	73.5	75.6	77.3	80.3	77.3	76.4	75.6	75.1	75.0	74.3	73.3	77.4	75.5	76.4	76.3	69.7	126.7
(100931: KG/M3)	2500	74.1	77.2	73.3	81.1	79.0	78.4	77.1	74.7	74.2	75.4	75.1	76.3	77.2	78.4	77.4	70.5	127.7
NFA 10747: RPM	3150	74.3	74.4	78.7	79.5	77.4	77.5	79.4	78.1	77.4	77.5	79.7	76.5	78.6	78.3	78.4	69.7	128.9
(1125: RAD/SEC)	4000	76.1	76.1	79.3	80.4	80.3	78.1	75.4	77.0	76.4	74.4	75.4	78.6	81.3	74.3	76.1	71.5	128.7
NFK 10546: RPM	5000	75.8	76.4	78.8	79.5	79.4	76.5	78.0	77.1	78.7	75.8	77.9	80.5	79.5	78.9	77.8	70.8	129.5
(1104: RAD/SEC)	6500	73.9	74.6	78.9	78.0	76.5	77.0	74.8	74.3	71.8	72.9	74.8	75.8	75.9	75.6	75.9	69.1	126.5
NFD 10628: RPM	8000	73.0	76.2	78.9	78.0	76.7	77.0	79.1	77.5	76.1	75.0	76.1	76.7	76.1	73.1	75.1	68.3	128.7
(1113: RAD/SEC)	10000	71.1	71.2	72.4	73.0	73.1	73.1	72.1	71.9	72.1	71.4	71.3	73.3	73.0	72.0	72.1	64.5	125.2
NO: OF BLADES 44	12500	67.4	68.4	69.5	69.4	69.3	69.7	68.7	68.2	67.0	69.7	67.9	69.6	69.4	66.5	68.4	60.9	122.9
	15000	66.2	68.0	66.9	66.5	67.6	67.9	67.1	66.5	67.1	74.1	66.1	69.1	68.9	67.8	67.9	61.3	124.9
	20000	65.9	66.5	65.7	65.2	65.7	67.5	66.5	63.3	67.0	75.3	64.5	67.4	66.5	68.4	68.6	62.9	127.4
OVERALL MEASURED		91.3	91.4	90.2	92.3	92.0	91.6	90.7	91.9	89.9	91.0	90.2	91.0	91.2	90.8	91.7	89.1	
OVERALL CALCULATED		87.9	89.1	90.1	90.8	90.3	89.9	88.5	89.0	87.5	88.7	87.3	88.4	89.0	88.4	88.4	83.2	
PNDR		99.7	100.5	102.8	103.7	103.0	101.9	101.8	101.3	100.4	100.2	101.2	101.3	103.0	101.4	101.5	95.3	139.8

MODEL SOUND PRESSURE LEVELS (99.0 DB, F, 70 PERCENT REL, HUM, DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PHL
		0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°		
		(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	77.1	78.6	76.0	78.8	79.0	78.8	79.8	76.4	76.0	74.8	79.6	74.9	76.8	77.2	75.2	75.2	126.5	
	63	73.4	72.2	77.4	74.4	83.2	81.4	71.3	68.1	72.3	85.6	70.3	69.5	68.4	70.3	69.6	70.3	127.1	
RADIA, 100: FT,	80	68.6	69.7	67.6	68.3	68.2	67.7	69.8	66.2	65.8	67.8	67.9	63.8	63.6	64.6	65.9	66.7	116.7	
VEHICLE (30: R)	100	69.2	68.6	67.2	68.8	67.9	68.9	68.8	65.4	64.6	66.2	67.1	68.0	67.7	68.1	68.2	67.3	117.0	
LOC ATY	125	71.2	70.8	67.4	71.0	73.3	69.1	67.2	66.8	70.2	85.4	68.4	69.2	67.2	67.2	67.5	68.6	118.6	
CONFIG T=0	160	74.0	72.8	67.2	73.0	76.1	70.1	67.9	66.4	73.9	87.2	71.2	71.0	70.8	69.7	68.1	68.3	121.1	
LOC PTD	200	68.0	66.7	67.0	64.9	64.8	65.3	64.9	63.8	63.0	64.1	62.3	62.3	64.2	64.0	64.4	63.1	114.6	
DATE 7/31/74	250	74.1	73.8	73.9	74.9	72.9	71.3	71.4	68.9	69.4	68.4	66.0	64.9	66.1	67.1	66.0	65.5	119.8	
RUN 519	315	76.2	75.3	76.3	78.8	76.9	74.4	74.3	68.9	62.1	72.2	69.1	67.3	69.0	70.0	68.0	68.4	123.0	
TAPE A903	400	75.3	71.8	75.0	79.7	79.1	81.1	76.2	72.9	69.2	71.2	72.3	72.9	77.1	71.1	73.0	66.2	125.7	
BAR 28.7 MG	500	76.2	77.9	77.2	77.7	78.8	77.9	76.9	77.5	73.3	72.0	72.2	69.9	74.8	80.1	79.1	75.1	126.3	
(97750: N/R2)	630	87.9	85.1	84.5	92.2	91.3	85.9	89.4	88.3	88.8	92.5	90.6	80.7	88.3	89.6	85.5	83.5	139.4	
TAMP 82: DEG F	800	91.6	88.1	87.1	96.2	95.4	89.5	94.4	91.7	93.1	96.5	93.4	84.3	94.3	91.3	81.2	84.6	143.5	
(301: DEG K)	1000	94.4	95.3	95.8	95.1	99.3	96.2	99.3	94.0	92.8	93.6	94.6	89.3	92.2	88.4	87.4	83.6	145.1	
TWEY 63: DEG F	150	98.5	97.0	101.5	101.9	100.1	99.3	99.1	102.0	101.3	97.4	95.1	95.2	91.0	91.3	85.5	84.6	149.5	
(290: DEG R)	2000	95.5	95.2	104.7	108.2	106.9	98.6	97.4	102.0	101.3	98.3	90.8	88.4	87.5	86.6	82.7	81.8	142.3	
HACT 9.24 G/M3	2500	97.8	101.1	96.8	98.3	97.6	97.3	96.5	102.0	98.4	95.5	93.4	89.4	90.5	89.5	87.6	81.8	147.2	
(-00924: KG/M3)	2900	96.4	99.3	99.4	98.3	97.1	98.4	96.2	94.1	93.4	92.5	90.2	87.3	87.3	84.4	85.5	79.7	145.0	
NFA 8633: RPM	3150	96.7	95.3	97.5	95.5	94.5	98.4	96.6	95.9	92.6	87.7	86.7	88.6	86.3	82.3	83.4	77.6	144.2	
(904: RAD/SEC)	4000	96.7	96.3	97.5	96.1	95.3	97.5	95.6	95.0	93.5	90.5	86.6	86.2	85.1	75.2	79.3	76.6	144.1	
NFK 8448: RPM	5000	96.0	97.7	95.8	95.6	96.6	94.8	95.8	94.3	91.7	91.8	89.0	84.7	84.7	81.7	81.7	77.0	144.0	
(884: RAD/SEC)	6300	94.4	94.9	95.2	92.6	93.5	95.1	92.1	91.8	89.2	88.1	85.0	82.2	82.9	79.1	79.1	73.1	141.8	
NFD10628: RPM	8000	92.7	93.2	93.2	91.2	93.0	92.3	92.3	91.9	88.2	88.4	83.0	81.4	79.4	75.2	75.0	71.2	141.3	
(1113: RAD/SEC)	10000	90.5	91.5	89.4	88.3	89.2	90.3	88.3	87.1	85.1	82.5	80.5	77.4	76.2	73.1	73.5	68.6	138.7	
NO. OF BLADES 43	12900	85.9	85.7	85.8	84.7	85.2	85.9	85.9	84.3	81.6	80.6	76.9	73.7	71.8	67.6	69.0	64.8	136.5	
	16000	82.5	82.0	84.2	81.2	82.0	83.0	81.1	80.7	78.3	78.2	73.6	70.5	68.0	65.1	67.3	62.5	135.1	
	20000	78.2	78.0	84.1	77.9	77.7	78.0	77.0	76.5	76.0	78.9	74.1	67.9	65.9	65.9	69.8	63.0	135.1	
OVERALL MEASURED		106.2	107.0	107.3	107.7	107.1	107.3	107.8	106.6	105.0	104.4	103.0	99.2	100.8	97.9	97.0	93.2		
OVERALL CALCULATED		106.6	107.4	107.6	107.6	107.5	107.5	107.1	107.7	105.9	105.3	103.0	99.5	100.9	98.1	97.0	92.7		
PNDB		119.1	119.9	120.0	119.6	119.2	120.1	119.0	119.8	117.3	115.4	113.3	110.9	111.0	109.0	107.8	103.1		



MODEL SOUND PRESSURE LEVELS (99, 90, 80, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PHL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	77.8	78.8	77.1	81.8	77.7	77.8	76.2	76.5	75.7	76.8	73.1	73.7	77.0	78.1	77.8	75.9	126.8
63	73.6	72.3	77.6	87.3	83.0	81.4	70.8	69.0	72.6	83.3	70.5	69.3	70.3	72.3	72.5	72.5	128.7
80	68.9	69.4	68.6	74.4	68.4	68.7	66.6	66.6	67.6	68.5	66.7	63.4	64.6	65.4	66.6	69.1	117.8
100	68.9	68.0	69.2	74.6	67.7	67.9	66.2	65.4	63.9	63.9	64.9	66.8	65.9	67.1	67.0	67.9	117.3
125	69.4	67.8	67.5	83.1	68.2	68.2	68.2	68.7	65.4	64.2	66.2	68.3	69.1	69.2	69.2	67.6	121.8
160	75.2	66.9	68.1	79.6	73.6	71.2	76.9	76.5	71.2	67.1	73.1	76.1	77.8	77.1	76.1	71.9	125.2
200	66.9	65.9	67.1	81.8	66.2	66.2	64.0	66.6	65.9	65.0	65.0	62.9	63.9	64.2	65.0	64.1	120.0
290	71.0	70.9	73.4	77.9	68.7	69.0	66.1	67.7	66.0	64.0	66.1	64.9	66.0	67.4	66.2	64.3	119.0
315	72.1	72.2	76.2	82.7	74.2	74.3	70.3	71.7	70.3	70.3	73.1	73.2	70.0	74.9	69.2	67.3	124.1
400	74.5	72.1	81.3	83.0	82.8	76.0	78.9	74.6	75.2	75.2	77.1	75.8	80.0	71.9	77.0	75.1	128.2
500	76.9	75.9	82.4	83.6	83.6	81.9	83.8	80.5	82.1	80.2	80.8	81.1	81.9	79.8	82.2	78.4	131.9
630	86.4	86.4	82.2	92.0	89.3	91.4	94.5	94.0	93.5	91.4	92.4	91.3	86.2	91.3	93.3	89.7	142.2
800	94.4	87.0	89.6	97.2	89.4	95.4	97.2	100.8	94.1	95.4	99.4	94.5	96.4	96.1	88.4	95.6	146.8
1000	95.3	88.3	92.6	93.3	94.3	99.4	97.5	94.0	91.3	92.6	87.6	91.2	91.4	87.3	90.4	85.8	144.0
1250	98.2	96.9	106.5	104.2	103.9	100.0	98.2	99.7	98.4	99.4	98.0	93.3	92.1	89.0	94.3	87.4	149.6
1600	100.3	101.3	101.4	99.1	97.4	98.6	99.5	98.0	94.6	91.6	91.5	87.5	93.5	86.6	88.4	81.5	146.5
2000	99.5	96.5	97.5	97.4	98.3	99.6	96.6	95.3	92.6	91.4	86.5	86.6	84.5	82.6	83.6	80.6	144.9
2500	95.2	97.3	100.4	100.9	97.3	97.1	96.1	95.1	91.4	88.5	88.2	85.4	85.4	84.0	84.1	79.6	144.9
3150	95.7	97.2	97.4	95.1	95.5	96.3	97.6	96.1	93.6	87.6	86.5	89.4	84.3	8.3	6.6	77.9	144.1
4000	96.5	96.0	95.6	96.1	95.3	96.5	96.4	93.8	90.3	87.3	82.4	84.5	85.2	77.5	77.1	75.3	143.3
5000	94.6	96.7	94.7	94.4	96.3	93.5	93.8	92.4	91.8	88.6	83.8	82.8	83.5	79.9	80.0	75.7	142.5
6300	93.9	94.8	93.2	91.2	92.7	95.0	94.1	89.7	86.8	85.1	83.0	80.8	81.1	77.9	77.8	72.0	140.8
8000	92.2	92.9	92.2	91.0	91.9	90.4	91.3	89.8	87.0	84.0	80.3	80.3	78.1	74.2	74.3	70.5	140.0
10000	89.3	90.4	88.3	87.5	88.4	89.4	87.5	85.0	82.5	80.5	78.4	75.1	74.4	72.2	71.2	67.6	137.5
12500	85.5	85.5	84.9	86.6	85.3	84.8	84.0	83.2	79.9	77.9	75.1	71.5	70.6	67.5	66.9	63.9	135.6
16000	81.1	82.0	80.4	82.1	81.9	81.2	80.3	78.8	76.4	77.3	71.4	69.1	67.3	67.2	67.4	62.2	133.9
20000	78.0	77.6	78.1	84.1	79.8	76.9	76.2	75.5	74.8	77.3	69.9	66.9	66.1	69.0	68.8	63.2	134.9
OVERALL MEASURED	107.0	105.8	109.1	109.7	108.1	108.0	107.3	106.6	104.8	101.4	103.0	100.1	100.2	98.8	99.2	97.2	
OVERALL CALCULATED	107.2	107.1	109.8	108.9	108.0	107.9	107.4	107.0	104.1	102.3	103.3	100.1	100.8	99.2	99.3	97.9	135.9
PNDB	119.1	119.2	120.8	121.3	119.2	119.5	119.6	118.3	115.8	112.5	112.2	109.7	111.0	108.2	108.6	106.4	

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
51	79.2	79.4	77.0	77.7	78.8	77.4	75.8	77.5	76.7	76.9	73.9	73.9	76.4	78.2	79.1	77.6	126.8
63	74.4	73.0	77.4	73.0	82.9	80.9	70.0	69.9	73.1	83.2	70.4	69.9	70.6	73.4	73.9	74.7	127.1
RADIAL 100. FT. ( 30. M)	80	68.7	69.2	68.0	67.15	68.6	67.2	66.4	66.6	68.3	68.7	67.7	64.5	66.7	67.5	69.8	117.3
VEHICLE ATT CONFIG T-0	100	69.2	67.8	67.4	67.19	66.9	66.5	65.6	65.7	64.8	62.3	65.0	65.9	65.5	67.1	67.9	116.1
LOC PTO	125	69.3	66.8	65.5	67.1	67.0	65.7	67.9	65.1	68.0	64.5	64.2	68.0	68.2	69.3	69.1	117.1
DATE 07/31/74	160	78.4	71.0	66.2	73.2	71.2	72.8	76.7	72.0	75.6	72.3	71.0	77.0	77.6	76.2	76.8	124.7
RUN 522	200	65.4	64.8	64.4	65.2	66.0	64.5	65.1	64.0	67.6	65.2	62.5	63.7	65.5	65.4	65.7	115.0
TAPE	250	70.4	69.0	70.8	69.0	69.3	68.7	66.8	67.1	64.6	63.4	65.1	69.9	65.6	67.5	66.0	116.9
BAR 28.9 HG	315	72.4	73.0	76.2	74.8	74.0	73.7	73.2	75.6	69.6	67.4	75.3	76.0	73.9	75.1	70.2	123.9
TAPE A904	400	77.1	70.6	81.2	83.9	84.9	75.3	82.1	73.6	74.5	81.0	72.4	79.0	77.0	72.4	75.0	129.3
BAR 28.9 HG	500	81.2	74.9	85.2	87.8	90.1	82.7	87.0	86.7	82.3	66.0	81.2	85.1	81.7	77.4	81.8	135.2
(97726, N/M2)	600	83.2	83.8	86.7	87.5	95.5	96.1	94.4	100.0	95.1	94.3	94.6	94.6	91.2	86.9	91.2	144.9
TAMP 82. DEG F	800	93.4	90.2	97.2	93.0	99.1	95.0	99.2	95.0	92.6	99.1	95.2	95.1	91.2	89.5	88.9	146.0
(301, DEG K)	1000	96.5	89.4	89.5	94.2	95.5	99.1	97.2	94.1	97.2	94.3	92.6	93.4	90.1	91.5	87.7	144.9
THET 63. DEG F	1250	96.4	96.0	105.1	105.0	103.3	101.8	99.4	96.9	96.9	96.2	98.2	92.9	93.9	89.5	91.4	149.4
(290, DEG K)	1600	98.3	102.1	100.6	99.1	97.1	97.1	95.3	94.9	94.1	93.3	92.2	89.4	88.1	84.9	85.2	145.2
HACT 9.24 G4/M3	2000	98.4	96.3	99.7	97.5	96.5	98.0	96.2	95.3	92.1	88.6	86.6	87.5	86.9	85.8	84.3	144.3
(.00924 KG/M3)	2500	97.1	98.0	100.3	101.2	97.2	97.7	94.2	93.6	91.8	88.5	87.5	84.0	85.9	84.5	84.1	144.8
NFA 9046. RPM	3150	96.5	97.2	98.9	94.3	95.4	96.3	93.6	94.1	92.4	90.0	86.6	85.5	84.3	82.8	80.3	143.3
( 947, RAD/SEC)	4000	96.4	96.3	96.7	96.5	96.2	95.2	93.6	92.2	91.0	86.6	82.6	83.2	84.1	78.6	77.2	142.7
NFK 8852. RPM	5000	95.1	96.4	95.1	93.9	96.6	93.2	93.9	92.6	93.4	89.2	86.9	82.6	83.3	80.0	80.7	142.8
( 927, RAD/SEC)	6300	94.3	94.1	94.3	90.8	91.8	93.6	93.1	86.9	86.8	84.2	82.9	81.1	81.1	78.2	76.9	140.0
NFD10628. RPM	8000	92.4	91.7	92.3	90.1	90.3	90.0	89.8	87.9	86.7	83.2	80.3	79.0	76.6	73.1	73.2	139.0
(1113, RAD/SEC)	10000	89.7	89.3	86.4	86.4	87.4	87.8	86.4	84.9	82.2	80.3	78.4	75.1	73.8	71.4	72.1	136.7
NO. OF BLADES 44	12500	85.5	85.2	85.1	82.6	84.4	84.1	82.3	81.4	79.4	77.8	74.6	70.7	70.3	65.9	70.7	134.4
	16000	82.3	81.9	81.6	79.9	81.3	81.1	80.6	77.9	77.1	77.5	70.5	68.3	67.2	64.6	71.4	133.6
	20000	78.9	78.6	78.2	76.6	79.8	76.8	76.5	74.9	76.8	78.2	69.1	68.0	65.7	65.2	74.7	134.2
OVERALL MEASURED	106.5	106.7	109.3	108.6	107.9	107.7	106.2	105.9	103.8	103.2	102.3	101.2	99.7	97.4	98.3	97.7	195.7
OVERALL CALCULATED	106.9	107.2	109.7	108.8	108.4	107.9	106.6	106.1	104.0	103.9	102.8	101.3	99.8	97.3	97.5	97.4	
PND8	119.1	119.2	121.2	120.8	119.5	119.4	117.4	117.1	115.4	113.6	112.3	110.2	109.5	107.4	107.2	106.4	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	79.9	79.8	77.2	78.9	78.8	78.3	76.6	78.0	76.7	76.2	74.4	73.8	76.4	75.9	76.0	77.7	126.7
	63	76.5	80.0	79.4	75.9	83.2	80.6	73.7	75.9	73.8	82.9	73.5	74.8	79.1	77.4	76.2	79.7	128.5
RADIAL 100. FT.	80	69.7	70.6	68.9	68.7	68.8	66.1	66.6	66.8	69.3	68.9	67.2	64.8	65.4	67.7	70.6	71.3	118.1
( 30. M)	100	70.3	68.5	68.1	67.8	66.2	66.6	65.9	63.9	64.8	64.2	65.4	66.0	64.8	65.3	71.1	69.8	116.3
VEHICLE ATT	125	68.4	66.1	65.4	66.3	65.4	68.0	66.2	66.1	65.8	62.8	64.5	65.0	65.9	66.5	72.3	68.8	116.7
CONFIG T-0	150	80.1	71.9	68.1	74.2	75.9	76.7	72.7	76.2	74.9	68.5	77.8	76.1	69.8	78.4	77.0	78.9	125.9
LOC PTO	200	66.4	64.0	64.3	65.9	66.3	66.6	65.0	65.1	64.0	64.6	64.4	64.2	64.6	66.4	70.0	67.7	115.8
DATE 07/31/74	250	68.4	67.9	68.5	66.9	68.4	67.6	67.0	66.9	64.8	64.6	65.3	65.1	66.6	67.1	71.2	66.8	117.1
RUN 524	315	76.1	76.0	75.3	78.2	82.0	80.0	72.1	76.8	73.8	75.7	78.8	78.0	77.8	72.0	75.0	73.6	127.4
TAPE A904	400	71.2	72.7	78.6	77.3	75.9	78.9	78.8	76.1	74.0	74.4	75.7	74.9	72.8	76.2	77.1	73.0	126.3
BAR 28.9 HG	500	78.2	81.6	90.2	89.1	87.0	90.8	90.7	87.9	85.5	87.4	87.7	87.2	82.5	88.3	87.2	83.5	138.1
(97726, N/M2)	630	84.6	87.1	85.5	84.6	91.4	96.0	95.2	95.2	96.4	91.8	89.0	92.2	89.1	85.6	90.5	88.0	143.0
TAMB 82, DEG F	800	90.3	85.8	87.4	93.9	92.4	94.1	96.6	94.2	91.2	85.5	84.9	90.0	89.8	87.3	85.3	80.7	142.0
(301, DEG K)	1200	91.7	92.3	91.5	87.1	90.2	95.2	94.4	94.5	92.4	89.8	91.1	87.2	84.3	89.4	85.5	79.0	141.7
TWET 63, DEG F	1600	87.2	90.0	91.5	89.8	93.2	93.7	91.8	91.3	90.8	88.5	90.5	87.1	85.0	87.2	83.0	75.6	140.6
(290, DEG K)	2000	95.7	94.9	94.3	92.3	91.2	93.0	91.1	91.1	88.2	85.0	85.9	83.3	85.1	82.6	81.4	77.0	139.4
HACT 9.24 GM/M3	2500	100.6	98.1	91.5	90.1	88.4	91.0	87.3	89.3	88.1	84.2	83.0	81.5	84.3	82.7	80.3	75.1	138.4
(.00924 KG/M3)	3000	94.6	93.3	94.4	92.3	91.4	91.0	87.1	88.2	86.9	84.9	83.6	81.1	82.9	79.3	80.3	75.9	138.5
NFA 9482, RPM	3150	92.6	93.4	94.0	90.2	89.4	86.4	87.4	88.4	85.2	83.9	80.8	80.4	81.4	77.6	80.6	74.2	137.6
( 993, RAD/SEC)	4000	94.8	93.1	91.8	89.5	89.2	88.2	85.2	86.6	83.8	80.8	77.7	79.3	80.0	74.5	78.6	72.9	136.4
NFK 9279, RPM	5000	91.9	91.5	89.3	87.9	90.6	86.3	85.6	84.8	84.3	82.2	80.2	78.6	77.6	75.7	80.7	71.5	136.0
( 971, RAD/SEC)	6300	90.2	88.9	88.5	85.7	85.9	85.4	81.6	81.7	80.5	77.7	77.3	75.7	77.5	74.9	80.9	70.8	133.7
NFD10628, RPM	8000	87.4	87.8	86.7	84.0	84.2	81.6	82.6	80.8	79.9	77.5	74.3	74.1	74.5	70.3	81.2	68.6	132.9
(1113, RAD/SEC)	10000	85.5	85.1	82.9	80.5	81.5	80.2	78.3	77.3	75.3	73.6	72.5	70.4	70.1	67.6	80.6	64.1	130.7
NO. OF BLADES 44	12500	81.7	81.2	80.0	76.4	77.5	76.2	75.5	74.7	73.3	71.8	68.9	67.6	67.5	63.6	79.6	61.3	128.9
	16000	78.6	77.8	75.5	73.3	74.0	74.1	73.9	72.9	72.3	73.3	66.4	67.0	66.1	65.4	62.2	62.0	130.2
	20000	77.3	74.9	71.3	69.0	71.1	73.5	74.8	72.9	72.8	76.1	66.1	67.0	64.8	64.9	62.9	63.4	133.0
OVERALL MEASURED		104.4	103.8	102.0	101.2	101.0	102.8	102.2	101.3	101.1	98.8	97.8	97.1	96.9	96.3	97.2	94.1	
OVERALL CALCULATED		104.8	103.7	102.6	101.2	101.6	103.0	102.4	101.9	100.8	98.2	97.5	97.2	96.8	95.9	96.3	92.1	
PND6		118.0	116.6	115.7	113.7	113.7	113.7	111.8	112.1	110.2	108.2	107.1	106.2	106.2	104.8	106.3	101.4	150.7

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIAN)															PHL		
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	
50	80,0	80,6	88,1	89,12	88,9	78,7	77,7	78,7	78,5	77,3	76,0	74,7	75,7	77,0	75,8	76,7	131,6	
63	77,0	76,7	88,4	85,10	92,4	80,9	72,5	71,9	75,6	83,2	75,5	73,1	72,6	75,3	75,4	76,9	132,5	
RADIAL 100, FT. (30, M)	86	70,9	72,4	80,9	80,6	69,5	67,4	67,5	70,5	69,7	70,0	66,6	67,2	68,6	70,0	71,3	123,3	
VEHICLE ATT CONFIG T-0	100	70,0	68,4	79,4	78,12	76,2	66,5	64,7	65,7	65,5	65,0	67,1	65,9	67,6	66,4	68,2	70,0	120,8
125	68,2	65,8	76,3	75,11	76,5	66,8	65,2	68,2	65,0	65,3	67,4	65,4	68,0	68,3	69,5	71,9	120,1	
LOC PTO	160	71,0	72,6	83,3	80,10	84,2	77,6	74,8	79,1	71,5	70,2	68,0	66,9	68,0	74,2	76,1	72,0	127,0
DATE 07/31/74	200	74,2	75,8	86,6	83,12	87,1	80,7	77,9	81,8	74,7	72,1	70,2	68,0	70,8	76,2	79,8	72,9	129,9
RUN 525	250	66,4	66,0	76,4	76,13	76,2	66,9	65,7	67,1	67,7	68,1	66,3	66,3	68,0	69,2	68,1	68,7	120,4
TAPE A932	315	68,3	67,1	79,7	78,14	81,1	68,7	66,9	67,1	67,6	67,6	68,4	68,0	70,7	70,0	70,4	68,8	123,1
BAR 28.9 HG (97736, N/M2)	400	69,1	70,7	82,9	82,10	83,9	69,6	68,9	67,0	67,7	66,3	69,3	68,9	72,8	71,4	71,3	68,7	125,3
TAMP 82, DEG F (301, DEG K)	500	70,2	71,6	83,1	82,19	83,9	72,8	69,9	72,7	70,7	70,4	69,9	72,8	73,6	77,3	73,9	70,6	126,8
1600	630	70,3	70,3	82,7	81,13	81,3	71,8	70,1	71,1	69,8	70,6	70,6	70,3	71,1	72,3	72,2	70,1	129,1
2000	600	71,2	72,9	85,2	86,14	82,2	73,8	71,2	73,0	73,0	71,3	72,1	71,1	71,7	72,1	71,1	68,7	127,7
2500	1000	72,5	72,8	85,7	86,13	83,3	72,9	72,1	72,3	72,9	72,5	72,8	72,9	73,2	73,2	72,2	69,0	127,6
3000	1250	73,3	73,6	87,2	88,11	85,4	73,9	73,7	73,6	72,7	73,0	73,2	74,0	74,7	74,0	75,1	70,8	129,9
3500	1600	73,5	74,1	86,8	87,14	84,5	73,9	73,9	74,8	72,8	72,3	73,3	74,9	74,9	73,4	73,4	69,1	129,4
4000	2000	73,6	76,0	87,4	89,12	88,3	76,1	76,2	75,1	75,1	74,5	74,5	74,8	76,5	76,5	75,4	71,0	131,6
4500	2500	74,1	75,7	89,4	90,13	89,0	77,8	75,7	74,7	74,6	74,4	74,5	76,9	77,0	78,5	77,2	71,8	132,7
5000	3150	74,4	77,2	89,4	89,16	88,8	77,3	78,4	80,2	77,0	75,5	76,6	77,7	75,9	76,8	77,5	71,3	132,9
5500	4000	74,5	77,3	88,7	90,14	91,2	78,9	75,9	77,1	77,1	76,5	75,2	77,6	79,8	75,3	76,4	72,9	134,0
6000	5000	74,7	76,3	88,0	88,17	89,0	76,4	77,4	77,4	77,5	77,1	77,7	78,7	77,5	77,8	77,8	71,5	133,0
6500	6300	73,9	74,5	88,0	88,19	88,0	77,4	74,4	74,7	73,6	73,1	76,1	75,8	76,4	76,1	75,6	70,6	131,8
7000	8000	73,2	74,6	87,1	87,14	89,1	76,8	79,1	82,0	77,7	79,0	75,0	79,0	76,7	73,1	75,0	70,8	133,8
7500	10000	70,4	70,8	82,4	82,15	83,2	72,8	71,9	72,1	71,7	71,2	71,2	73,1	73,0	70,5	71,3	65,9	128,9
8000	12500	67,4	68,2	78,7	76,14	79,4	68,9	69,1	69,0	68,1	69,7	68,5	69,4	69,3	65,7	69,4	63,0	126,5
8500	16000	65,9	67,6	76,2	75,10	77,0	68,4	67,9	67,0	67,5	73,0	66,0	69,3	68,5	66,0	66,5	63,8	127,0
9000	20000	66,5	67,4	72,8	71,8	74,5	66,1	67,4	64,3	66,8	74,6	65,5	68,7	68,4	66,5	66,4	64,1	128,5
OVERALL MEASURED	91,5	90,9	100,9	101,3	102,3	92,1	81,2	91,9	90,9	91,3	90,3	91,1	90,6	90,6	92,3	90,9		
OVERALL CALCULATED	87,3	88,4	99,9	100,0	100,6	89,8	88,3	89,9	87,9	88,9	87,3	88,2	88,2	88,4	88,6	85,5	144,1	
9500	25000	99,0	100,5	113,0	113,14	113,8	102,2	101,3	102,5	100,5	100,1	100,2	101,1	102,0	101,2	101,3	97,1	

X X X

REDUCTION OK. ~ LOGS MAY HAVE 10DB ERROR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)	
50	78.2	79.8	78.1	78.1	78.8	77.6	76.5	77.8	76.7	76.2	74.9	74.7	76.7	75.8	74.7	76.5	126.5
63	77.5	78.7	78.3	75.1	83.0	80.6	74.7	77.0	75.6	83.1	75.1	75.8	79.6	78.4	74.9	79.1	128.7
RADIAL 100. FT. (30. M)	89	89.7	70.6	68.7	67.5	67.3	65.4	65.4	68.3	67.7	66.7	63.6	65.2	66.7	66.9	68.5	116.9
VEHICLE ATT	102	70.0	68.7	68.2	67.1	66.1	65.9	63.7	63.8	63.4	65.0	65.8	64.9	66.0	67.8	68.7	115.8
CONFIG T=0	125	68.5	66.1	65.5	65.3	65.4	66.1	66.1	64.6	65.1	62.6	64.5	65.0	65.7	67.5	70.0	116.0
LCC PTO	160	80.1	70.1	67.4	72.9	75.0	78.6	70.6	75.6	75.9	67.0	77.4	76.2	71.9	78.0	75.0	125.4
DATE 6/7/31/74	250	67.1	65.1	64.1	65.1	66.1	65.8	64.8	65.1	65.0	65.1	64.2	64.9	65.1	66.2	65.0	115.2
RUN 526	315	68.4	68.2	67.4	67.0	68.1	67.7	66.9	66.2	64.8	64.3	65.1	65.3	66.7	67.5	66.2	116.5
TAPE A902	400	75.1	73.9	73.4	76.1	81.1	79.1	72.9	72.7	76.3	78.1	77.3	77.7	72.4	72.0	72.7	125.6
BAR 28.9 HG	500	72.4	72.0	77.1	76.0	74.2	76.9	78.8	74.1	72.9	72.3	75.1	74.8	71.6	74.1	75.2	125.1
(97736. N/M2)	630	77.0	79.8	89.0	87.1	84.2	88.9	90.6	86.7	84.5	83.2	87.0	86.9	79.8	86.1	87.1	136.8
TAMP 82, DEG F	800	83.4	83.3	81.5	85.1	92.3	96.1	96.0	95.0	96.2	93.5	89.3	90.4	89.2	82.4	85.3	143.8
(301, DEG K)	1000	90.3	84.0	86.3	95.2	91.0	93.6	96.1	93.2	91.1	89.2	86.2	91.3	90.9	88.4	84.2	141.8
TWET 64, DEG F	1250	91.7	89.1	89.7	87.4	90.5	96.0	93.3	94.4	91.9	88.2	89.4	87.2	82.9	89.3	85.2	141.4
(291, DEG K)	1600	87.5	92.1	92.4	90.1	91.2	93.0	91.1	92.1	89.7	85.4	88.2	86.0	85.1	87.1	82.1	139.9
HACT 9.62 G4/M3	2000	94.4	94.3	94.5	94.1	91.2	92.0	92.2	90.3	88.2	84.4	83.2	84.4	84.8	82.5	78.4	139.8
(.00962 KG/M3)	2500	102.6	98.1	92.5	91.6	88.5	91.0	87.0	90.1	88.0	83.6	84.8	82.2	85.9	82.6	78.5	138.9
NFA 948, RPM	3150	94.4	93.1	94.1	93.5	90.0	89.8	87.0	88.1	85.9	83.4	82.2	81.1	82.0	80.4	79.0	138.1
(993, RAD/SEC)	4000	93.0	93.5	93.7	88.6	88.6	90.4	86.3	86.1	84.8	83.8	82.7	81.4	81.1	77.5	76.6	137.2
NFK 9277, RPM	5000	94.4	94.0	92.5	91.2	88.2	89.3	85.1	85.9	84.8	81.4	78.3	79.1	79.2	73.1	74.0	136.9
(971, RAD/SEC)	6300	91.8	92.5	88.7	90.0	90.5	86.5	86.6	84.3	85.2	81.8	80.7	77.8	77.4	75.9	76.8	136.4
NFD10628, RPM	8000	91.4	89.7	90.0	84.8	86.1	86.5	82.7	81.7	80.4	78.0	78.0	76.8	78.8	75.8	75.0	134.2
(1113, RAD/SEC)	10000	88.4	89.0	87.0	84.3	86.0	82.7	82.8	81.6	79.9	77.1	75.2	75.0	74.8	71.0	70.9	133.3
NO. OF BLADES 44	12500	86.5	86.0	83.3	81.2	81.0	78.9	77.1	76.7	74.2	73.1	70.3	69.9	68.6	68.4	65.2	130.7
	16000	82.8	82.2	80.5	76.5	78.5	77.4	76.0	74.3	74.2	72.6	69.8	68.5	68.2	64.4	65.7	128.8
	20000	79.1	78.6	75.9	73.8	74.8	74.8	72.7	71.9	71.5	74.9	65.3	67.2	66.0	64.0	65.7	128.2
OVERALL MEASURED		76.5	75.3	71.9	70.4	71.4	73.3	70.1	69.5	72.0	75.8	62.6	66.3	65.0	64.9	63.4	129.5
OVERALL CALCULATED		105.3	103.2	102.3	102.2	101.3	103.9	103.2	101.9	100.9	98.1	97.3	97.1	96.7	95.3	95.1	93.1
PNDB		105.6	103.8	102.1	102.1	101.1	103.2	102.4	101.6	100.5	97.9	96.7	97.0	96.2	95.5	94.0	91.3
		119.0	116.6	115.9	114.5	113.1	114.0	111.7	111.4	110.0	107.8	107.1	106.3	106.4	104.6	103.2	100.7

MUDEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN'S)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	79.4	80.9	78.3	79.12	79.1	78.9	77.8	78.6	77.7	77.3	75.1	74.1	75.6	77.2	75.7	75.6	127.2
63	78.3	78.2	79.7	77.10	83.0	80.0	72.9	72.0	74.8	53.6	75.3	72.1	73.6	76.0	75.0	76.7	128.0
80	71.2	72.3	70.8	69.19	70.8	69.2	67.6	67.6	69.5	69.8	68.7	66.8	67.1	69.8	69.6	70.3	119.0
RADIAL 100, FT. (30. M)	100	70.0	67.9	69.3	68.12	66.3	66.8	64.7	65.5	65.5	65.4	66.2	66.8	66.8	67.9	68.6	116.5
VEHICLE ATT CONFIG T=0	125	67.3	66.0	66.3	66.2	66.4	67.8	65.1	67.2	66.1	65.3	66.6	66.0	68.7	68.2	70.0	117.4
LOC PTD	168	71.2	73.8	74.1	71.13	74.8	77.9	73.5	79.0	70.9	71.2	68.2	67.9	69.5	73.0	75.9	124.0
DATE 07/31/74	200	74.3	76.1	77.3	74.13	77.1	80.8	77.0	81.8	73.9	73.3	69.3	69.4	70.6	75.2	78.3	126.7
RUN 527	250	66.4	65.8	66.4	66.13	66.3	67.7	66.8	67.7	67.6	67.6	66.3	66.2	68.1	69.2	68.0	117.5
TAPE 4902	315	68.2	66.8	69.6	69.10	71.0	69.0	67.7	67.8	66.8	67.6	68.6	68.2	71.7	71.2	70.4	119.3
BAR 28.9 HG	40L	68.2	71.1	72.4	72.11	72.0	70.0	69.0	66.8	67.7	66.4	69.6	69.3	72.9	72.2	72.2	120.5
(97736. N/M2)	500	72.0	72.6	74.0	73.11	73.9	73.6	69.5	70.8	70.8	71.2	70.2	72.8	74.7	78.0	72.8	123.2
TAMB 82. DEG F	630	70.5	70.2	72.6	72.13	72.1	70.8	69.9	71.2	70.2	71.4	70.9	71.9	73.5	72.4	70.3	121.6
(301. DEG K)	700	71.2	72.9	75.2	76.6	72.9	73.8	70.8	72.8	73.1	72.2	72.7	71.1	71.8	72.2	71.2	122.9
TWET 64. DEG F	1000	72.9	73.2	75.4	74.12	72.4	73.0	72.7	72.3	74.1	72.5	71.6	73.4	72.7	73.2	72.4	123.3
(291. DEG K)	1250	73.6	73.6	77.0	78.1	75.8	73.9	74.6	73.7	72.7	73.2	75.3	74.1	74.8	74.3	75.0	125.1
HACT 9.82 GM/M3	1600	73.4	74.1	76.4	76.13	75.0	74.9	75.0	73.9	72.9	72.3	73.6	74.9	74.8	74.2	74.2	124.7
(.00962 KG/M3)	200L	73.4	75.3	77.7	79.13	78.4	76.1	75.9	74.4	75.1	75.5	74.6	76.2	75.8	76.4	76.3	126.7
NFA10750. RPM	2500	74.4	76.8	79.2	80.12	79.1	76.9	78.0	74.6	75.7	75.2	74.3	76.0	76.7	78.1	78.0	127.6
(1126. RAD/SEC)	3150	73.9	76.1	78.9	79.17	78.5	79.3	77.2	78.5	78.1	75.8	77.7	77.2	76.2	77.9	78.6	128.7
NFK10519. RPM	4000	76.4	76.0	79.4	80.14	80.6	79.3	75.0	76.2	78.2	77.4	75.5	77.4	79.9	74.5	75.2	128.8
(1101. RAD/SEC)	5000	74.7	76.4	77.0	78.17	79.0	76.4	77.3	76.6	78.5	76.8	77.9	78.6	78.2	77.0	76.8	128.8
NFD10625. RPM	6300	74.0	74.7	77.9	76.19	77.9	77.7	74.3	74.5	73.7	73.9	76.0	75.5	76.4	76.1	76.9	127.4
(1113. RAD/SEC)	8000	73.3	73.9	77.2	79.10	80.0	75.7	78.7	80.8	77.6	78.0	74.1	79.9	76.5	73.1	75.0	130.0
NO. OF BLADES 44	12500	70.4	70.8	72.5	72.11	73.4	73.1	72.1	72.1	71.8	71.5	71.5	73.5	72.9	71.3	71.2	125.2
16000	18000	67.4	68.2	68.6	68.13	69.6	69.3	69.0	67.9	68.2	69.4	68.5	69.4	69.3	67.5	67.5	122.9
20000	OVERALL MEASURED	67.0	68.6	67.0	65.18	68.1	67.5	66.8	66.6	67.5	72.5	66.3	68.8	69.8	68.3	67.2	65.8
OVERALL CALCULATED	87.5	88.5	90.0	91.15	92.4	91.8	90.8	92.9	91.0	91.3	90.6	91.0	91.0	91.4	92.4	90.0	124.6
PINDB	99.8	100.3	102.7	103.4	103.5	102.4	100.6	101.5	101.2	100.7	100.6	101.1	102.2	101.4	101.7	97.1	127.9

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
RADIAL 100. FT. (30. M)	50	79.3	79.5	77.0	78.1	79.1	78.5	77.6	77.4	76.2	74.9	73.9	76.6	75.9	74.7	75.5	126.7
VEHICLE ATT CONFIG T-0	63	77.3	78.0	78.3	75.3	83.2	80.6	74.1	76.0	74.6	83.1	75.1	76.0	78.6	74.9	77.9	128.4
LOC PTO	80	70.1	71.6	70.2	67.8	69.8	69.5	67.5	66.6	68.2	68.0	66.7	64.8	66.2	68.0	66.8	117.8
DATE 07/31/74	100	70.3	69.7	68.3	67.1	67.3	66.6	66.7	64.3	64.4	64.0	65.3	66.9	65.8	66.6	67.6	116.2
RUN 528A	125	68.2	66.9	66.6	66.3	67.1	66.8	67.2	65.1	66.1	63.2	64.3	66.4	65.0	67.7	69.8	116.7
TAPE A902	160	78.2	67.6	66.5	74.0	76.2	78.3	74.4	76.8	67.4	63.4	64.2	66.9	65.8	67.5	70.0	125.8
BAR 29.9 HG	200	65.2	64.8	64.2	65.0	66.3	66.8	65.2	64.8	64.6	65.3	64.2	64.9	65.6	66.2	65.2	117.4
(97736. N/M2)	250	68.1	67.7	68.6	67.2	68.3	67.6	66.8	66.1	64.9	64.1	65.2	65.3	67.0	67.0	66.1	116.5
TAMP 82. DEG F	315	75.1	73.8	74.4	77.4	77.1	78.0	72.8	74.7	72.8	76.5	79.3	77.7	72.3	72.0	72.8	126.7
(301. DEG K)	400	70.4	70.8	77.3	77.1	77.1	76.7	78.1	74.7	71.6	73.1	74.3	74.1	72.6	75.3	75.0	125.3
THST 64. DEG F	500	77.9	77.6	89.1	89.0	88.3	87.9	89.6	86.4	83.7	85.1	85.1	82.5	86.5	85.8	82.6	136.7
(291. DEG K)	630	83.6	85.3	84.6	85.3	92.6	95.2	95.0	95.9	95.9	92.6	89.3	89.0	82.7	87.2	85.2	142.8
HACT 9.82 G4/43	800	90.3	85.1	85.1	95.2	94.1	92.8	96.2	90.9	90.8	87.4	85.2	85.2	88.5	83.1	85.9	141.6
(.00962 K3/43)	1000	90.4	91.3	89.8	87.3	89.7	95.3	92.9	92.9	91.2	87.3	89.6	87.4	83.9	89.5	84.4	140.8
NFA 9484. RPM	1250	88.1	90.1	92.2	90.4	94.4	93.0	92.8	92.0	90.6	87.1	89.3	86.2	86.0	87.3	81.9	140.7
(993. RAD/SEC)	1600	95.4	96.1	95.8	94.2	91.6	89.8	91.0	88.2	88.1	84.3	84.4	83.3	84.8	81.5	79.2	139.5
NFK 9290. RPM	2000	100.6	97.3	91.9	92.1	90.4	91.0	89.2	89.0	86.1	83.3	83.4	82.3	84.1	83.4	79.8	138.6
(972. RAD/SEC)	2500	93.4	93.1	94.3	93.0	90.4	91.0	87.1	87.8	87.0	85.4	84.3	81.3	83.1	80.2	78.3	138.5
NFD10628. RPM	3150	92.6	92.8	94.8	90.5	89.8	90.1	87.2	88.1	85.1	83.7	80.8	81.3	82.0	78.5	77.2	137.9
(1113. RAD/SEC)	4000	93.7	94.0	93.4	90.2	89.3	88.0	86.0	86.9	83.7	80.6	78.5	79.1	79.9	74.4	74.4	136.9
NO. OF BLADES 44	5000	91.0	92.6	90.2	88.9	91.1	86.2	86.6	85.2	84.2	81.8	79.9	77.6	77.5	76.1	75.7	136.4
OVERALL MEASURED	6300	88.0	87.8	86.2	84.7	84.9	81.8	82.9	80.8	79.9	76.2	77.2	75.9	76.5	76.0	74.8	134.1
OVERALL CALCULATED	8000	80.2	86.1	83.3	80.5	82.1	80.7	78.9	77.1	76.1	73.2	72.4	70.5	70.6	71.0	67.6	132.7
PWDE	10000	81.5	81.3	79.6	77.5	78.6	77.0	76.2	74.0	74.9	71.4	69.5	67.5	67.2	63.8	65.2	128.6
	12500	78.9	78.6	77.0	75.2	77.1	73.9	73.9	72.6	74.8	74.1	65.6	66.2	65.7	63.9	64.1	129.0
	16000	76.6	75.5	74.7	74.4	78.7	73.3	74.2	72.4	77.2	74.7	65.9	66.7	65.4	64.3	68.0	132.1
	20000	104.2	103.9	103.3	102.2	102.2	102.2	103.1	102.1	100.7	97.3	96.4	96.3	96.9	96.4	94.5	130.6
	25000	104.6	103.7	103.1	102.1	102.3	102.3	102.3	101.3	100.3	97.5	96.7	96.6	96.5	95.6	93.3	128.6
	31500	117.8	116.2	116.2	114.4	113.9	113.6	111.9	111.7	110.0	108.0	107.1	106.1	106.6	105.0	102.9	100.4

528A

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADJANS)															PHL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.
50	79.8	80.4	78.1	78.17	79.0	78.7	76.6	77.9	77.7	76.9	76.1	75.6	77.8	79.0	80.0	78.9	127.8
60	75.1	75.0	78.2	74.11	82.1	81.7	73.8	72.9	73.7	84.2	72.1	71.9	72.8	73.9	74.9	74.9	127.8
RADIAL 100. FT.	80	69.6	71.3	69.0	68.8	70.8	72.3	70.3	69.6	70.5	69.7	69.0	66.5	66.0	67.5	69.4	119.3
( 30. M)	100	69.4	69.6	69.3	68.9	69.1	69.6	69.9	68.8	67.6	66.1	66.3	67.1	67.7	68.4	69.0	118.3
VEHICLE ATT	125	69.2	68.8	66.6	67.2	68.0	69.1	69.1	67.9	67.1	65.2	65.5	68.9	68.5	69.4	67.8	117.8
CONFIG T=0	150	77.1	71.0	68.3	70.12	69.9	72.7	76.8	68.7	72.6	72.0	70.5	74.7	77.7	75.3	76.0	123.8
LOC PTO	200	66.4	65.7	65.2	65.12	66.0	67.8	65.1	65.1	63.6	65.2	63.4	63.8	64.9	65.2	65.9	115.1
DATE 07/31/74	250	70.5	69.8	70.2	68.9	68.4	68.6	67.1	66.8	65.9	63.12	65.4	65.2	66.1	67.2	66.2	116.9
RUN 929	315	72.4	74.6	77.3	74.16	73.4	72.0	73.1	74.8	71.6	68.1	74.2	75.0	73.9	69.3	69.6	123.7
TAPE A902	400	78.2	70.8	81.4	83.19	85.0	74.8	81.7	72.2	73.7	80.1	73.4	79.1	76.7	72.1	72.9	129.1
BAR 28.9 HG	500	82.0	73.5	85.0	88.11	89.2	82.7	87.0	87.7	83.7	86.1	82.2	85.9	81.9	77.0	78.1	135.3
(97709, N/M2)	630	83.3	83.3	85.5	83.13	96.5	96.1	96.1	100.3	97.8	95.7	94.4	96.4	91.1	84.6	87.4	145.6
TAMB 82, DEG F	800	87.5	93.1	95.7	92.11	98.1	92.8	97.1	95.2	95.9	99.1	92.5	97.3	90.6	89.2	88.0	145.7
(301, DEG K)	1000	90.7	91.4	90.6	92.11	93.5	97.4	95.0	95.5	92.9	91.4	91.6	92.2	89.8	89.3	85.4	143.3
TWET 64, DEG F	1250	98.1	97.1	104.3	103.9	102.1	98.7	98.9	96.0	96.7	96.1	97.2	94.2	92.5	88.3	88.9	148.6
(291, DEG K)	1600	98.6	101.2	99.6	98.11	96.4	95.1	93.9	94.0	92.1	91.5	93.6	88.2	87.7	83.6	84.3	144.0
HACT 9.62 G4/M3	2000	99.3	96.3	99.7	95.12	97.5	97.2	95.1	94.1	91.1	88.7	86.4	86.3	85.7	85.7	86.2	143.7
(.00982 KG/M3)	2500	97.2	97.7	99.5	100.17	97.0	95.8	93.1	93.1	91.7	88.1	87.1	83.1	84.8	83.1	83.1	144.0
NFA 9090, RPH	3150	95.6	97.4	98.9	93.5	94.6	96.2	93.4	93.6	91.4	88.6	86.8	85.3	84.6	81.8	81.3	142.9
( 948, RAD/SEC)	4000	96.6	96.2	96.4	95.13	94.5	93.9	92.0	92.5	90.2	86.6	83.3	83.3	83.7	78.4	78.2	141.8
NFK 8856, RPH	5000	95.7	96.6	94.9	92.17	96.6	92.4	93.5	91.7	91.6	87.8	86.8	81.9	83.4	80.0	79.8	142.1
( 927, RAD/SEC)	6300	93.9	93.8	94.0	90.17	92.0	92.8	89.5	88.6	86.9	84.3	83.1	80.1	80.6	78.0	75.8	139.7
NFD10628, RPH	8000	92.0	92.7	92.2	89.11	91.2	89.7	90.0	88.8	85.7	83.5	83.12	79.1	76.7	73.2	72.0	131.1
(1113, RAD/SEC)	10000	89.6	89.9	87.6	86.19	86.4	87.0	85.0	84.0	81.8	80.4	78.12	75.0	73.5	72.2	70.9	136.4
NO. OF BLADES 44	12500	85.3	86.0	84.5	82.16	84.2	84.2	82.0	81.4	79.1	77.4	75.4	71.2	70.8	68.8	67.5	134.3
	16000	82.2	82.7	81.1	80.10	80.8	79.8	78.9	77.9	75.6	77.0	73.0	69.0	66.9	69.2	65.7	133.1
	20000	81.7	78.0	77.5	75.16	76.5	78.4	75.1	73.5	74.0	77.5	73.8	65.6	65.1	70.8	66.7	133.3
OVERALL MEASURED		106.3	106.7	108.5	107.0	107.8	106.4	105.9	106.2	104.0	103.5	102.3	102.3	98.7	96.3	97.8	96.1
OVERALL CALCULATED		106.8	107.2	109.1	107.8	107.8	106.4	105.7	105.9	104.0	103.7	101.8	102.3	98.9	96.2	95.9	96.3
PADE		119.0	119.4	120.7	120.11	119.2	118.5	116.9	116.6	114.6	112.9	111.7	110.6	109.1	106.7	105.5	105.5



MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100. FT. (30. M)	50	79.9	79.5	78.8	79.0	77.4	75.9	77.6	77.4	76.8	75.0	75.0	76.7	78.3	80.0	78.6	127.3	
VEHICLE ATT	63	79.3	74.1	78.2	74.2	82.9	80.7	70.6	69.6	72.7	83.1	71.2	70.3	71.6	74.1	75.1	74.9	127.2
CONFIG T=0	81	69.6	69.7	68.0	68.5	68.5	68.2	66.7	65.7	68.4	67.6	66.7	63.6	64.3	67.0	67.5	70.6	117.2
LOC PTO	102	68.9	67.7	68.1	67.8	67.1	66.9	65.7	65.6	67.8	63.1	64.3	65.9	66.6	67.3	67.8	68.8	116.5
DATE 07/31/74	125	69.2	67.1	66.3	67.0	67.2	66.1	67.1	64.6	68.7	65.5	64.5	66.1	67.7	67.6	69.3	68.0	116.9
RUN 529A	160	76.0	70.7	69.1	70.0	70.2	70.6	76.7	67.9	73.6	73.0	71.1	74.1	77.3	75.4	76.8	72.6	123.8
TAPE A902	200	65.1	65.1	65.5	66.0	66.0	65.7	64.0	64.1	68.6	65.5	62.5	63.9	64.7	65.1	65.2	65.8	119.4
BAR 28.9 HG	250	70.2	69.9	70.7	71.2	68.4	68.6	67.3	67.2	66.7	63.4	65.2	65.1	66.1	67.3	66.0	66.4	117.2
(97709, N/M2)	315	72.2	73.1	76.3	75.4	73.1	72.8	72.8	73.8	70.0	68.5	74.2	74.3	72.6	74.5	67.9	68.7	123.1
TAMP #2, DEG F	400	77.1	71.8	80.3	83.0	84.0	74.0	80.7	72.1	75.7	80.5	73.4	78.2	76.9	73.3	71.0	76.7	128.6
(301, DEG K)	500	80.9	74.7	84.3	86.9	90.0	83.5	87.7	87.0	84.4	86.3	83.0	84.8	82.6	78.5	77.9	80.8	135.4
TWET 64, DEG F	600	88.5	91.9	95.6	91.0	98.1	92.8	97.8	95.1	92.9	99.2	94.5	97.2	89.4	92.3	90.9	97.0	145.9
(291, DEG K)	1000	88.8	91.3	91.9	91.5	93.2	97.2	95.0	95.0	93.1	92.3	92.7	93.3	89.8	88.4	87.1	83.9	143.4
HADT 9.62 G4/43	1250	97.4	96.2	105.3	104.1	102.0	98.5	98.7	95.0	96.6	96.4	98.0	93.9	94.9	98.6	85.9	88.7	148.8
(.00963, KG/43)	1500	96.6	97.1	100.0	100.2	96.0	95.9	92.8	92.1	91.6	89.5	87.4	85.1	85.6	82.2	83.0	80.0	143.9
NFA 9050, RPM	2000	95.8	96.5	97.5	94.6	94.7	97.0	94.4	93.4	91.9	88.9	86.5	85.4	84.0	82.5	80.4	78.3	143.0
(948, RAD/SEC)	2500	96.8	96.3	96.9	96.2	95.3	94.8	92.9	92.3	91.2	86.4	83.4	84.3	83.1	77.7	77.1	77.1	142.4
NFK 8856, RPM	3000	95.0	97.5	95.0	93.9	96.7	93.3	93.5	91.7	91.3	88.9	85.9	82.9	83.2	79.9	78.6	76.3	142.4
(927, RAD/SEC)	3500	94.3	93.8	94.2	91.9	91.9	93.4	89.6	88.9	86.6	84.0	82.9	80.0	81.4	79.4	76.7	73.4	140.0
NFD10628, RPM	4000	91.1	92.7	92.6	89.8	91.3	89.8	89.7	87.6	85.6	83.1	80.0	79.2	77.6	74.0	73.1	71.5	139.0
(1113, RAD/SEC)	4500	89.2	90.0	88.7	87.1	88.5	87.7	86.1	84.1	82.1	80.4	78.1	75.0	74.1	72.5	71.2	69.1	136.8
NO. OF BLADES 44	5000	85.3	86.4	85.8	83.3	84.3	84.0	83.2	81.3	78.9	77.5	75.4	71.5	70.2	67.6	67.3	64.1	134.6
16000	6000	82.2	82.6	81.4	79.8	82.1	80.9	79.7	78.6	76.4	76.1	73.2	68.9	67.3	68.3	65.7	62.8	133.6
20000	7000	78.6	77.6	77.7	76.7	77.8	77.0	75.5	74.1	73.1	71.6	73.5	68.4	67.3	70.9	66.7	63.4	133.3
OVERALL MEASURED		106.3	106.8	108.2	108.0	107.2	107.0	105.8	106.2	104.1	104.2	102.4	102.1	99.9	97.5	96.3	99.0	
OVERALL CALCULATED		106.2	107.0	109.4	108.2	108.1	107.1	106.0	105.9	104.0	104.3	102.9	102.3	99.8	97.2	96.3	98.7	
RMSE		118.7	118.9	120.9	120.2	119.4	119.2	117.4	116.5	115.1	113.2	112.3	110.6	109.8	106.9	106.0	107.4	155.5

529A

	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PNL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(		
50	78.3	78.4	76.8	79.6	76.8	78.6	76.5	76.9	75.7	77.8	79.4	76.7	73.6	78.0	77.0	76.6	126.9	
63	73.5	71.6	76.8	72.7	81.6	79.1	69.6	68.9	71.7	84.0	69.8	69.8	65.9	71.0	69.9	73.1	126.6	
RADIAL 108. FT. ( 30. FT.)	80	69.2	67.5	67.5	68.1	68.3	67.4	66.3	67.6	66.6	68.5	66.4	63.9	62.6	64.9	69.6	70.5	116.9
VEHICLE ATT	100	69.3	67.7	66.7	67.8	68.6	66.7	65.8	67.6	64.9	66.0	67.9	67.7	66.8	68.8	67.2	69.9	117.3
CONFIG T-0	125	71.8	69.9	68.9	70.1	72.3	85.4	66.2	69.0	70.0	67.1	68.3	69.1	68.0	67.4	67.9	69.5	118.8
LCC PTD	160	73.5	70.5	66.6	71.6	74.9	67.8	66.4	70.7	72.8	68.1	70.7	70.9	68.7	70.0	67.8	69.9	120.5
DATE 7/31/74	200	68.5	67.5	67.5	68.8	68.8	66.0	64.8	68.7	63.5	65.8	61.9	61.8	62.6	64.0	63.9	65.9	119.3
RUN 530	250	74.8	72.9	73.9	74.5	73.1	70.1	69.6	71.9	68.9	66.3	63.8	63.9	64.8	67.5	67.0	68.0	119.7
TAPE A903	315	75.6	73.9	75.6	77.7	75.0	72.1	70.9	71.8	69.9	69.1	66.0	64.8	67.9	69.1	69.1	69.3	121.5
BAR 28.9 HR	400	73.7	72.6	74.8	77.5	75.8	75.0	70.4	70.9	71.0	70.9	69.1	71.7	73.7	70.9	70.9	69.0	122.8
(97789. N/M2)	500	72.7	75.6	74.9	74.5	72.9	73.7	71.6	73.1	71.9	72.5	69.7	66.8	69.9	78.2	76.9	74.9	123.8
TAKR 82. DEG F	630	86.8	82.9	83.1	91.2	91.0	86.4	86.1	86.4	87.4	90.8	91.2	77.4	83.0	87.4	82.5	83.6	138.1
(301. DEG K)	800	90.7	85.5	87.0	95.7	95.8	91.9	92.6	91.1	90.7	95.3	94.9	82.9	91.2	89.3	84.3	84.3	142.6
TWET 64. DEG F	1000	97.1	93.0	97.1	95.1	102.3	97.3	99.2	94.4	92.0	94.8	93.1	88.5	91.1	92.6	86.4	85.3	145.9
(291. DEG K)	1250	96.6	96.8	99.6	102.0	98.8	99.3	98.9	103.6	100.0	101.4	97.8	93.4	94.9	92.4	91.1	86.1	149.3
WACT 9.62 GM/M3	1600	96.8	95.8	96.3	95.8	95.2	95.0	97.1	98.5	94.2	93.4	90.3	89.1	86.1	88.7	85.6	84.4	144.9
(.00962 KG/M3)	2000	98.1	100.9	97.0	98.1	97.0	96.2	97.2	98.0	97.8	95.8	91.1	88.5	88.1	87.4	88.4	84.6	146.0
NFA 8610. RPM	2500	97.6	98.6	98.6	99.0	96.0	98.2	96.8	96.3	92.8	91.5	88.9	87.3	86.2	85.4	86.1	81.4	145.0
( 882. RAD/SEC)	3150	97.1	95.0	98.2	97.3	95.0	97.2	96.3	97.3	93.0	91.5	87.2	87.5	85.4	83.4	83.3	81.3	144.0
NFK 8425. RPM	4000	97.8	97.1	98.8	97.1	96.9	96.1	94.9	94.5	91.9	90.3	85.0	86.0	85.0	80.3	79.2	78.3	144.0
( 882. RAD/SEC)	5000	97.0	97.4	95.1	95.4	97.3	93.6	96.3	94.6	93.3	91.8	88.3	84.4	83.5	82.6	81.8	79.8	144.0
NFD 10428. RPM	6300	96.6	95.7	95.7	93.4	94.6	94.6	92.8	92.7	89.8	88.1	85.5	81.6	82.8	80.1	78.8	75.0	142.3
(1113. RAD/SEC)	8000	93.6	93.5	92.4	92.5	92.6	90.9	92.5	92.1	89.8	88.0	82.5	80.7	78.7	76.1	75.1	74.9	141.4
NO. OF BLADES 44	10000	91.7	91.1	89.8	89.8	89.9	89.3	88.9	87.9	84.9	85.1	80.8	76.9	75.8	74.4	73.3	72.0	139.1
16000	12500	87.1	86.9	86.1	85.1	86.3	86.2	86.2	86.3	82.2	81.5	77.0	73.5	71.0	69.3	68.5	67.3	137.2
20000	25000	84.3	83.4	82.5	81.7	82.7	81.9	82.8	83.8	78.9	79.2	74.6	70.8	67.9	68.2	66.9	66.6	135.9
OVERALL MEASURED	30000	80.2	79.0	77.9	78.0	80.4	78.2	79.1	80.4	77.1	78.4	74.5	68.3	67.2	70.7	67.6	68.6	137.7
OVERALL CALCULATED		107.0	106.5	107.0	107.6	106.7	106.6	106.9	107.2	104.9	104.6	102.0	98.2	99.2	98.4	97.1	95.2	
PNDB		107.3	107.2	107.5	108.2	107.9	106.7	107.0	107.6	104.9	105.4	102.5	98.4	99.4	98.8	96.4	94.0	155.9
		119.9	119.7	120.1	120.2	119.5	119.1	118.7	119.2	116.4	115.8	112.4	109.9	109.5	108.5	107.9	105.4	

MODEL SOUND PRESSURE LEVELS (59 DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PNL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	77.5	77.4	75.8	77.8	77.4	76.6	79.5	76.7	74.9	76.0	73.8	73.0	72.5	76.1	73.7	76.1	125.4
63	72.7	69.9	75.8	72.5	81.9	79.1	68.7	67.7	70.8	84.2	68.1	67.0	64.7	70.9	69.0	73.3	126.5
RADIAL 100. FT. ( 30. M)	80	66.3	66.3	64.4	65.1	64.5	63.4	61.3	61.5	64.5	66.0	62.6	59.9	59.6	62.7	62.5	113.7
VEHICLE ATT CONFIG T-0	100	66.6	65.7	63.7	65.4	62.8	64.9	63.7	63.6	62.9	64.1	67.0	66.0	64.6	65.9	63.9	119.0
LCC PTD	200	69.7	62.9	61.8	64.5	64.9	63.0	62.6	62.9	62.7	65.1	60.8	62.1	62.0	64.0	63.3	113.3
DATE 7/31/74	250	67.7	65.8	65.9	67.0	66.0	65.1	64.0	66.0	63.0	63.1	61.9	63.9	65.2	66.0	63.1	114.7
HUN 531	315	69.6	67.9	68.9	70.8	71.0	68.9	68.8	71.1	65.0	68.2	66.2	69.1	69.7	70.0	66.2	119.0
TAPE A903	400	75.6	71.0	76.5	75.9	72.8	73.1	69.7	71.7	75.6	69.9	75.7	70.0	74.7	69.9	78.0	124.0
BAR 28.9 HG	500	75.5	80.5	77.7	76.5	74.8	79.9	81.8	79.1	78.8	82.0	77.7	75.0	73.6	79.0	82.9	129.6
(97713. N/M2)	630	87.0	88.0	91.3	84.2	86.2	90.2	90.6	92.5	90.3	90.4	93.1	92.1	82.0	88.3	90.5	141.0
YAMB 80. DEG F	800	91.8	86.0	95.5	100.9	92.9	96.0	95.0	97.9	94.1	90.3	98.9	98.1	89.1	88.4	89.3	145.9
(300. DEG K)	1000	93.8	89.4	89.9	87.1	94.4	95.0	95.3	90.6	87.2	86.3	87.1	88.4	87.0	82.3	84.5	141.9
YMET 63. DEG F	1250	99.6	96.8	104.7	102.7	103.0	101.4	102.0	102.2	97.1	97.5	96.9	95.9	91.9	87.2	87.0	149.9
(298. DEG K)	1600	98.9	99.3	97.9	98.0	94.9	94.3	96.9	97.3	92.9	92.6	91.2	88.1	86.9	87.3	86.1	144.5
WACT 9.55 GM/M3	2000	96.0	96.0	97.0	98.8	97.9	99.5	95.2	98.3	94.0	92.4	89.0	87.1	87.0	85.6	84.3	145.4
(.00955 KG/M3)	2500	96.9	97.7	97.7	101.6	97.1	98.0	95.7	95.2	93.7	91.3	88.8	85.9	85.8	86.1	84.9	145.2
NFA 8710. RPM	3150	95.2	96.0	97.3	95.8	94.9	96.5	95.0	96.4	93.3	91.4	88.5	86.2	85.1	83.4	81.4	143.9
( 912. RAD/SEC)	4000	96.7	96.2	97.8	96.7	96.2	95.2	94.8	94.3	91.2	88.6	83.8	84.1	83.2	79.2	77.3	143.4
NFK 8543. RPM	5000	96.4	96.5	94.2	95.0	97.1	93.6	94.2	93.6	92.5	90.7	87.4	83.8	83.6	81.9	71.4	143.2
( 894. RAD/SEC)	6300	94.4	94.4	94.4	92.3	93.7	94.6	91.5	90.8	87.8	86.9	83.6	81.7	81.5	78.0	77.6	141.3
NFO10628. RPM	8000	92.6	92.7	92.4	92.3	91.5	89.8	91.7	89.4	87.8	86.0	81.7	79.9	78.0	74.7	74.8	140.3
(1113. RAD/SEC)	10000	90.9	90.7	88.7	88.8	89.7	88.9	88.1	86.9	83.7	83.3	80.0	76.9	74.8	73.0	72.9	138.4
NO. OF BLADES 44	12500	86.9	86.1	85.1	84.7	85.8	84.9	84.8	84.0	80.9	80.4	77.0	73.3	70.9	68.5	68.3	136.0
	16000	83.2	83.3	81.3	81.4	82.6	81.7	81.5	80.0	78.5	78.7	73.8	70.8	68.4	69.0	66.0	135.0
	20000	79.7	77.9	77.9	77.8	79.9	77.3	78.0	77.8	77.2	78.2	72.9	68.4	67.1	71.2	66.4	134.8
OVERALL MEASURED	106.8	105.8	108.6	108.5	106.7	106.8	105.8	107.1	103.7	102.4	102.7	101.9	97.0	96.0	96.9	97.6	
OVERALL CALCULATED	106.9	106.5	108.8	109.2	107.8	107.4	106.9	107.3	103.7	102.6	103.0	101.9	97.4	96.2	96.5	97.1	135.7
PND8	119.1	118.8	120.0	121.4	118.9	119.2	117.9	118.9	115.6	114.2	112.1	110.6	108.5	107.8	107.2	107.5	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL; HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	77.5	78.4	74.7	77.4	77.4	75.9	74.4	76.6	74.7	76.6	72.8	71.9	72.6	75.9	75.7	74.1	125.2	
63	74.4	72.8	76.8	72.8	81.6	79.7	69.5	69.5	71.9	84.7	69.6	69.1	68.9	73.2	72.2	74.1	127.1	
RADIAL 100. FT. ( 30. M )	80	66.4	66.3	65.2	65.2	66.6	64.4	63.2	63.5	64.1	67.6	63.6	61.8	61.4	63.7	64.5	65.7	114.7
VEHICLE ATT	100	66.6	65.8	64.6	65.5	62.6	63.7	64.6	62.6	61.7	63.7	64.7	66.1	62.7	67.2	65.8	68.2	114.6
CONFIG T=0	125	69.0	63.1	63.1	65.1	64.9	64.1	66.0	62.9	63.9	64.2	67.1	66.0	67.4	67.1	68.3		115.5
LOC PTO	160	80.4	67.9	63.9	73.6	70.6	72.8	75.4	69.9	72.6	72.7	65.0	76.8	74.8	72.3	74.1	73.1	123.1
DATE 7/31/74	200	63.7	62.9	62.6	65.6	64.6	64.0	63.4	63.6	62.9	64.7	60.9	62.9	62.7	64.9	64.2	65.1	118.8
HUN 533	250	66.8	68.7	67.6	68.9	72.6	69.9	70.6	69.7	66.8	64.8	62.8	67.3	68.2	70.2	67.9	67.2	118.7
TAPE A903	315	74.9	70.7	60.0	81.0	86.8	82.9	84.6	83.7	80.0	77.0	72.9	81.0	80.8	83.4	80.0	77.2	132.0
BAR 78.9 HG	400	79.4	77.8	81.8	88.9	79.4	81.0	81.7	77.8	71.7	69.0	85.8	81.3	82.0	81.3	70.1	75.0	131.8
(97713. N/M2)	500	85.7	83.5	89.7	94.8	85.6	88.8	89.5	87.0	82.0	79.6	92.0	87.9	89.0	88.1	82.8	84.1	138.7
TAMB 30. DEG F	630	81.8	83.1	89.0	92.3	88.9	95.4	95.9	97.1	95.9	94.1	95.1	90.2	99.7	98.1	96.4		145.1
(300. DEG K)	800	90.7	82.7	91.8	90.8	93.0	91.1	92.6	95.1	97.1	91.9	94.9	96.3	99.1	91.2	92.2	95.1	145.1
THET 63. DEG F	1000	90.2	89.0	96.5	97.1	96.3	101.1	98.8	95.1	93.4	91.1	90.1	93.2	91.4	85.6	80.2	86.4	145.0
(290. DEG K)	1250	95.0	95.1	101.7	99.7	96.6	96.9	90.9	95.2	93.2	91.9	91.9	92.3	87.8	84.1	87.1	84.2	145.0
WACT 9.55 GM/M3	1600	97.0	98.2	98.8	98.0	94.8	96.0	94.0	92.0	91.2	88.0	88.0	88.2	84.1	82.2	85.3	83.3	143.1
(100955 KG/M3)	2000	102.2	101.9	100.0	97.1	92.8	93.4	92.1	95.8	92.0	90.1	89.1	87.2	85.3	85.3	82.1	81.4	143.5
NFA 9183. RPM	2500	94.8	97.7	96.7	99.5	92.6	95.2	91.8	89.9	90.8	88.8	87.2	82.9	81.9	81.3	82.9	79.3	142.4
( 959. RAD/SEC)	3150	94.9	95.3	97.0	93.1	94.3	91.0	90.9	89.4	88.1	87.4	84.0	83.3	82.2	79.7	79.3	77.3	140.4
NFK 8987. RPM	4000	98.0	96.2	93.0	94.8	96.0	92.0	88.8	89.2	88.2	86.1	80.9	82.4	82.3	76.2	76.1	75.8	140.6
( 941. RAD/SEC)	5000	94.3	97.1	92.2	92.5	94.4	88.7	90.1	89.3	88.6	87.3	83.1	80.5	80.3	79.6	78.5	74.7	140.4
NFD10428. RPM	6300	94.4	93.6	92.4	91.7	90.7	89.9	86.7	86.8	83.4	82.9	80.7	78.9	79.8	78.7	75.9	72.1	138.1
(1113. RAD/SEC)	8000	91.6	91.7	90.5	89.7	89.5	86.5	86.5	84.5	82.5	81.7	77.4	77.0	74.5	72.9	72.0	70.6	136.6
NO. OF BLADES 44	12500	89.8	90.0	87.6	86.9	85.9	84.1	82.5	81.7	78.7	78.0	76.7	72.9	71.9	70.3	70.2	68.2	134.7
	16000	82.2	81.6	79.6	80.7	79.7	77.7	76.6	75.0	74.4	76.5	72.5	67.9	66.5	68.0	65.9	66.7	131.9
	20000	79.0	78.2	76.9	77.2	79.1	74.9	75.8	74.0	74.1	77.2	73.2	66.0	66.2	69.3	66.4	68.3	133.3
OVERALL MEASURED		106.7	106.7	107.1	106.7	106.0	105.9	103.7	104.2	103.1	100.9	101.9	101.1	100.8	96.2	99.3	100.2	
OVERALL CALCULATED		106.9	107.1	107.6	107.2	105.7	105.9	104.1	104.1	103.1	100.8	101.4	101.6	101.4	97.0	100.1	99.7	154.1
PND8		119.9	119.9	119.5	119.9	116.1	116.9	114.8	115.3	113.3	111.5	110.4	109.9	110.3	106.7	108.5	107.3	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
RADIAL 100. FT.	50	77.6	77.7	75.5	77.6	76.5	75.8	75.5	76.4	74.6	76.8	72.8	72.9	74.8	76.9	74.7	75.1	125.4
( 30. M)	63	73.5	71.7	75.8	72.8	81.8	78.8	69.5	69.5	71.8	83.9	68.8	68.7	69.9	73.2	70.9	73.1	126.6
VEHICLE ATY	80	67.2	68.1	65.5	65.4	66.5	64.4	63.4	63.3	64.6	66.7	63.3	62.5	63.4	64.8	64.0	67.9	114.0
CONFIG T-0	100	67.7	66.5	64.8	65.7	63.6	63.0	64.4	62.8	61.6	63.0	63.8	65.0	63.9	66.2	66.1	67.2	114.3
LOC PTO	125	69.1	64.8	62.9	65.1	63.2	64.1	65.8	62.2	63.3	63.3	63.0	66.3	66.3	66.3	67.4	68.2	115.0
DATE 7/31/74	160	79.5	69.8	64.6	70.8	67.9	71.8	75.4	66.7	73.2	72.3	65.0	75.2	74.9	73.2	76.2	72.3	122.0
RUN 534	200	65.5	62.6	63.6	65.5	65.6	63.7	63.5	63.6	62.7	66.3	61.9	63.0	63.7	65.1	64.9	65.3	114.2
TAPE A903	250	66.9	66.8	67.8	67.9	70.7	67.1	69.6	68.6	66.1	65.4	63.1	66.9	67.0	70.1	67.1	66.4	117.7
BAR 28.9 HG	315	73.9	77.6	78.9	77.6	82.6	78.9	82.8	81.9	77.0	75.2	72.1	80.1	79.8	82.4	78.2	76.3	129.9
(97896. N/M2)	400	79.8	78.7	83.5	89.0	85.5	79.8	82.4	80.6	72.0	73.1	83.8	83.0	79.9	81.0	72.9	78.1	132.2
YAMB 80. DEG F	500	85.6	84.8	88.6	94.5	91.6	87.2	89.6	89.0	83.9	83.1	90.6	88.8	86.1	87.3	83.0	85.0	138.8
(300. DEG K)	630	88.1	88.4	88.0	92.9	92.2	96.1	97.9	100.0	98.1	95.6	96.1	96.4	92.3	87.4	96.3	96.4	146.4
WNET 64. DEG F	800	90.8	90.3	89.7	88.7	97.8	91.8	92.7	97.7	96.9	94.4	99.1	94.0	100.1	92.4	92.2	93.4	146.3
(291. DEG K)	1000	89.0	92.5	95.2	94.1	97.0	99.3	97.9	94.6	93.1	90.4	90.1	93.6	91.0	84.4	83.3	87.6	144.5
MACT 0.17 3M/N3	1250	95.1	95.9	102.2	99.7	99.2	97.9	93.9	97.0	94.9	90.3	92.1	93.3	89.0	86.5	88.5	86.5	145.8
(.01017 KG/M3)	1600	97.9	97.3	98.1	97.8	95.2	95.3	92.7	91.6	91.0	88.3	87.3	86.4	84.0	82.4	84.5	81.6	142.6
NFA 9110. RPM	2000	99.0	100.3	98.9	96.0	95.0	94.4	91.8	95.5	92.0	90.4	88.1	88.1	86.1	84.4	83.6	80.5	145.3
( 934. RAD/SEC)	2500	94.6	97.1	97.7	97.6	93.7	93.8	91.0	90.0	88.0	87.7	84.0	83.1	84.0	81.1	82.3	79.3	141.6
NFK 8931. RPM	3150	95.0	93.6	96.0	95.9	95.0	93.3	92.2	90.9	90.1	87.9	85.0	83.2	83.0	80.6	80.3	78.5	141.5
( 735. RAD/SEC)	4000	96.8	96.5	94.8	95.7	96.1	91.9	90.0	90.1	87.9	85.5	81.8	82.8	81.1	76.2	76.3	75.5	141.1
NFD 10628. RPM	5000	96.2	96.7	93.1	94.1	95.4	89.3	90.3	89.1	89.6	86.9	84.4	81.3	80.3	78.7	78.8	75.9	140.5
(1113. RAD/SEC)	6300	94.3	93.9	93.4	90.3	92.0	90.6	88.3	87.3	83.4	82.9	80.7	78.5	78.4	78.0	76.6	72.8	138.0
NO. OF BLADES 44	8000	91.5	92.0	90.4	89.3	89.5	86.6	87.5	86.4	83.4	81.1	78.3	77.5	74.7	72.7	72.5	70.6	137.2
12500	89.8	90.0	87.5	85.7	86.8	84.9	83.6	81.5	79.8	78.3	76.9	74.0	71.9	69.9	69.9	68.0		134.9
16000	85.4	86.2	83.8	81.7	83.5	81.7	80.4	79.8	76.7	76.2	72.9	71.0	69.0	65.0	65.2	63.3		132.4
20000	82.2	82.6	80.2	79.2	80.0	78.4	77.8	76.1	75.1	74.7	68.3	69.3	67.3	64.7	63.6	62.7		131.4
OVERALL MEASURED	106.0	106.0	107.1	107.0	106.1	105.9	104.7	104.7	103.2	100.9	102.1	101.0	102.2	97.1	99.2	99.4		132.7
OVERALL CALCULATED	106.2	106.7	107.5	106.7	106.6	105.6	104.5	105.4	103.7	101.3	102.7	101.7	102.1	96.9	99.2	99.4		134.4
PND8	118.9	119.2	119.1	119.0	118.7	116.6	115.5	115.6	113.6	111.7	111.3	110.1	110.8	106.4	107.9	107.4		

	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL		
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	78.5	78.7	75.5	78.7	77.6	76.6	75.6	77.4	75.5	75.9	72.6	73.0	73.8	74.9	74.8	76.1	125.0	
63	74.5	72.9	76.6	73.8	81.7	79.1	70.5	70.8	72.7	82.5	69.7	69.0	69.0	74.3	72.9	74.1	126.5	
RADIAL 100. FT. ( 30. M)	80	68.3	67.3	66.5	66.3	66.7	65.4	65.5	64.3	64.7	65.7	64.4	62.8	62.7	64.7	65.9	68.7	115.2
VEHICLE ATY	100	67.4	65.6	64.7	65.8	64.9	63.6	63.8	65.1	61.6	62.9	63.0	62.9	64.3	65.2	67.2	114.2	
CONFID Y=0	125	67.9	63.9	64.1	65.0	66.3	63.3	64.8	65.1	62.0	63.9	62.1	65.3	64.2	66.3	66.2	68.4	114.8
LOC PTO	160	66.7	71.8	67.6	73.9	74.0	73.6	71.5	75.6	71.9	73.0	71.0	75.1	72.0	76.4	73.9	75.2	123.7
DATE 7/31/74	200	64.7	62.9	62.8	65.6	67.3	64.8	62.7	66.8	61.9	66.0	62.7	63.9	63.7	65.1	65.1	66.0	114.8
RUN 335	250	67.6	65.9	66.0	67.0	68.1	67.0	65.8	66.7	62.8	64.0	64.1	64.0	65.0	65.4	65.0	65.1	115.8
TAPE A983	315	74.0	72.8	72.9	78.9	80.1	77.9	75.6	76.0	69.1	72.0	75.9	74.9	75.8	72.4	69.0	71.0	125.5
BAR 28.9 HG	400	70.7	75.6	76.6	77.5	78.0	80.7	74.4	75.8	70.7	74.6	72.9	76.9	78.6	72.3	70.1	73.0	126.2
(97696. N/M2)	500	88.4	84.6	85.6	86.5	88.3	90.1	85.7	86.5	81.7	86.1	84.0	87.9	88.7	83.0	79.3	82.2	136.5
TAMB 80. DEG F	630	91.8	88.2	84.8	90.9	100.5	93.3	98.1	99.1	94.3	100.1	98.0	93.5	92.0	94.4	90.3	87.2	146.8
(300. DEG K)	800	85.9	83.7	86.6	84.5	93.1	88.0	93.6	97.7	99.9	95.9	90.1	87.1	81.8	88.4	85.1	85.3	142.3
TWEY 64. DEG F	1000	88.1	90.1	91.0	89.9	92.5	93.5	93.9	92.9	90.2	91.2	89.2	88.5	87.0	86.4	83.6	84.7	141.1
(291. DEG K)	1250	89.7	94.6	98.1	94.7	93.2	93.0	93.9	94.7	90.2	88.1	87.8	89.2	86.1	83.4	85.2	77.3	142.1
MACT10.17 GM/M3	1600	97.1	97.2	97.1	94.8	89.6	91.3	91.0	91.9	89.3	85.0	85.9	85.2	83.3	81.3	80.3	75.0	140.4
(.01017 KG/M3)	2000	100.1	97.3	96.0	92.9	90.5	90.2	90.2	90.1	87.3	87.1	85.0	83.5	84.3	80.7	80.4	74.2	139.8
NFA 9333. RPM	2500	94.5	98.8	95.8	94.7	91.4	92.2	89.7	90.0	87.1	86.9	85.1	81.0	80.8	81.1	80.3	77.1	140.2
( 977. RAD/SEC)	3150	94.8	92.2	94.3	91.2	89.4	89.5	88.9	88.2	86.3	83.2	81.4	82.5	80.1	78.5	77.5	74.4	137.9
NFK 9150. RPM	4000	95.0	92.9	93.9	93.1	91.4	88.1	85.7	87.0	85.1	82.2	78.2	80.1	78.2	74.5	75.2	73.2	137.8
( 958. RAD/SEC)	5000	93.2	93.2	91.5	91.2	92.4	87.3	87.2	86.3	85.2	83.4	81.2	78.7	76.5	76.6	77.4	72.3	137.0
NFD10628. RPM	6300	92.2	91.4	90.5	87.3	87.7	87.8	84.4	83.3	81.8	80.6	77.8	76.8	77.1	75.8	78.9	78.9	135.5
(1113. RAD/SEC)	8000	90.7	89.3	88.4	86.6	86.3	83.7	84.2	83.3	80.3	77.8	75.4	74.4	73.3	71.0	71.0	67.9	134.3
NO. OF BLADES 44	12500	84.4	82.6	80.9	79.8	79.5	78.0	76.7	76.6	73.9	73.7	69.0	67.8	66.8	64.6	65.3	63.4	129.7
OVERALL MEASURED	16000	80.8	79.9	78.0	76.9	75.6	74.5	74.2	73.2	71.0	75.0	65.4	66.4	64.1	63.7	64.3	65.6	129.1
OVERALL CALCULATED	20000	77.2	75.5	74.3	73.5	71.8	70.8	71.2	70.5	71.4	75.6	62.4	65.7	63.4	64.8	64.7	68.0	129.8
PNOB		104.6	104.9	105.1	103.7	103.8	102.1	102.6	103.9	99.8	102.8	100.8	98.0	97.0	97.1	94.3	93.4	152.0
		105.3	105.1	104.9	103.0	104.3	101.9	103.0	104.0	99.7	102.8	100.3	97.9	96.5	97.1	94.3	92.4	
		118.2	118.3	116.9	115.7	114.9	114.0	112.8	113.1	110.1	111.3	109.2	107.1	105.9	106.1	104.8	101.2	

WIND OVER LIMIT SEC - 03 530A

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	78.6	78.7	78.7	78.7	78.5	76.9	75.7	77.4	75.8	76.7	72.5	72.7	73.8	75.9	75.1	76.1	125.9
63	74.7	72.9	76.5	72.9	81.8	79.2	69.8	69.6	72.7	84.0	70.0	69.7	69.7	73.9	73.3	75.3	126.3
RADIAL 100. FT. (30. H)	80	68.3	68.1	66.2	66.6	67.5	65.7	63.2	63.3	64.4	66.5	64.3	62.5	63.4	64.7	65.8	119.3
VEHICLE ATT CONFIG T=0	100	67.7	65.6	64.7	65.8	64.8	62.7	62.6	63.5	61.9	62.7	63.0	64.0	64.9	64.9	68.9	114.8
LOC PTO	125	68.6	63.8	63.1	65.0	66.0	63.0	63.4	64.2	62.3	63.3	62.2	65.3	65.0	66.3	66.5	114.8
DATE 7/31/74	160	80.7	69.6	66.8	73.9	73.9	73.7	72.6	75.5	72.8	73.2	70.9	76.1	72.6	76.4	75.3	124.1
RUN 535A	200	65.5	62.5	62.7	65.8	65.7	63.8	63.7	63.9	62.7	65.7	61.9	62.9	64.0	66.0	64.3	114.3
TAPE A983	250	66.8	65.7	65.7	66.7	66.9	66.0	65.0	65.7	63.0	63.9	63.7	64.2	64.1	65.2	64.9	115.1
BAR 28.9 HG	315	73.5	73.7	71.7	76.6	79.1	79.2	73.9	75.0	70.8	71.3	75.1	74.2	75.9	74.3	76.0	125.2
(97696. N/M2)	400	70.7	75.3	76.8	78.6	74.9	79.8	73.8	75.8	67.7	74.0	71.6	75.1	79.8	74.0	71.0	125.7
YAMB 80. DEG F	500	79.7	85.6	85.5	87.7	85.6	90.1	84.8	84.7	79.0	86.2	83.8	85.8	89.7	85.1	80.1	136.2
(300. DEG K)	630	92.9	89.3	85.0	91.1	100.3	94.4	99.2	99.1	94.0	100.5	99.0	94.5	91.1	94.4	91.6	147.2
THET 64. DEG F	800	86.6	85.6	85.7	85.6	92.7	89.3	93.6	96.7	90.0	95.1	92.1	90.1	85.0	88.3	85.2	142.1
(291. DEG K)	1000	89.1	90.2	89.9	91.2	93.9	93.1	95.8	93.1	91.3	92.2	89.0	88.4	86.4	89.4	83.4	141.6
MACT 19.17 GM/M3	1250	91.0	97.0	99.0	95.0	93.1	93.2	93.3	94.0	90.3	88.3	87.8	88.0	85.9	82.2	84.4	142.1
(.01017 KG/M3)	1600	96.9	98.8	98.0	95.8	91.1	91.3	92.1	92.1	89.1	85.4	86.1	85.1	84.1	81.5	82.2	141.2
4FA 9333. RPM	2000	101.2	98.0	98.1	95.9	90.3	93.1	92.0	90.9	87.1	86.6	85.0	84.4	85.1	79.4	81.6	141.1
(.977. RAD/SEC)	2500	93.8	96.7	94.9	95.7	88.8	91.9	90.9	91.0	87.1	87.2	85.1	81.2	83.2	80.3	81.4	140.1
NPK 9150. RPM	3150	95.9	93.2	94.4	91.2	89.1	89.1	89.0	88.2	86.3	84.3	81.3	82.4	81.1	77.6	77.6	138.1
(958. RAD/SEC)	4000	97.8	95.1	93.8	93.8	91.9	89.3	86.8	88.1	85.9	83.1	78.3	81.3	79.0	74.2	75.0	138.6
AFD10628. RPM	5000	94.0	94.1	91.1	91.1	93.4	88.3	89.2	86.3	86.5	84.3	81.3	78.6	77.2	76.8	76.8	138.4
(1113. RAD/SEC)	6300	93.4	92.4	91.3	88.3	87.4	88.5	84.5	83.5	81.4	81.0	78.8	76.8	77.5	76.8	75.5	135.9
NO. OF BLADES 44	8000	90.3	90.6	88.5	87.5	86.7	83.6	85.3	82.5	80.4	78.7	75.8	74.7	73.3	70.9	71.9	134.7
16000	89.8	87.6	84.7	83.6	83.7	82.0	81.5	79.4	76.5	74.9	73.5	71.0	69.8	68.8	69.1	65.9	132.3
20000	85.4	83.6	81.3	80.5	79.9	78.1	77.6	76.5	74.1	73.0	69.8	68.9	66.9	64.3	65.2	63.0	130.1
OVERALL MEASURED	106.0	105.5	105.6	104.7	104.8	102.0	103.1	104.0	100.1	103.1	101.0	97.9	96.7	97.0	96.2	95.5	130.1
OVERALL CALCULATED	106.2	105.8	105.3	104.0	104.3	102.4	103.8	103.0	99.8	103.0	101.1	98.4	96.7	97.0	95.0	94.3	129.2
PWDB	119.1	117.9	117.3	116.6	115.2	114.2	113.7	113.5	110.2	111.8	109.8	107.5	106.5	106.0	104.5	103.2	129.0
																	152.4

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	80.3	78.8	75.4	77.7	77.5	76.8	75.5	76.5	75.8	76.6	72.8	72.7	73.7	75.1	73.9	76.1	129.5	
63	78.6	77.6	77.5	74.7	82.7	79.7	71.7	72.6	73.6	83.9	72.7	72.9	74.9	75.2	74.0	77.4	127.7	
RADIAL 100. FT. ( 30. M)	80	73.2	70.3	67.6	87.3	69.4	66.6	64.4	64.3	66.6	67.5	65.5	63.5	63.4	65.7	65.0	68.9	116.2
VEHICLE ATT	100	72.4	66.8	65.7	66.5	66.6	63.9	62.7	62.8	64.0	62.1	63.1	64.1	61.9	63.9	64.8	67.4	114.1
CONF JG T=0	125	71.1	65.2	64.1	65.9	66.9	65.1	64.0	62.9	64.0	61.1	63.5	65.1	63.3	66.4	66.5	68.6	114.9
LOC PTD	160	81.9	70.7	65.6	76.8	75.9	76.9	68.7	75.6	73.0	69.0	76.3	76.1	68.9	78.1	77.0	78.3	125.2
DATE 7/31/74	200	68.5	63.9	62.8	65.7	65.6	64.8	63.5	63.9	63.9	66.0	62.9	64.1	63.6	66.3	66.0	66.0	114.8
RUN 536	250	67.7	65.8	65.7	66.0	65.7	64.8	63.8	64.7	64.1	63.9	64.0	63.9	64.0	65.2	64.9	65.4	114.7
TAPE A983	315	72.7	71.9	71.6	74.0	72.0	74.1	75.9	74.7	72.1	74.2	79.2	77.9	76.9	74.1	72.0	70.5	125.4
BAR 78.9 HG	400	69.5	72.9	75.8	78.9	76.0	78.7	75.4	74.0	69.7	74.1	71.8	75.7	74.6	78.1	75.3	72.4	125.6
(97696. N/M2)	500	79.9	83.8	86.5	89.7	87.9	89.8	88.4	87.1	80.7	86.1	83.1	87.7	86.0	90.1	88.2	83.1	137.5
TAMB 80. DEG F	630	83.8	88.2	82.9	86.2	92.4	93.4	91.1	97.3	94.0	86.1	90.3	92.1	88.0	87.4	89.4	85.7	142.1
(300. DEG K)	800	88.6	83.9	84.8	90.2	94.2	89.0	91.7	86.1	86.1	87.2	87.3	82.9	87.1	86.2	78.3	76.4	138.5
TWET 64. DEG F	1000	89.0	89.0	90.0	86.3	88.1	89.5	87.7	90.3	86.0	84.2	85.5	83.0	82.0	82.7	78.6	80.3	136.9
(291. DEG K)	1250	87.8	84.9	87.8	89.2	92.1	88.0	88.5	89.1	88.8	87.0	85.3	82.1	85.9	82.1	82.2	77.1	137.0
MACT10.17 GM/M3	1600	91.2	89.9	90.3	93.9	91.2	87.3	86.7	86.0	83.0	85.1	82.4	80.2	84.3	79.4	79.6	76.2	137.1
(.01017 KG/M3)	2000	92.9	91.9	92.0	92.3	88.3	86.0	84.9	84.1	83.0	81.1	81.2	80.1	81.3	80.4	79.6	75.4	136.0
NFA 9468. RPM	2500	91.6	90.0	91.1	90.8	87.8	87.9	86.8	85.8	83.7	83.3	80.3	81.1	77.9	78.4	78.3	75.0	136.0
( 991. RAD/SEC)	3150	91.3	90.0	91.0	89.1	88.1	88.2	84.8	84.2	83.3	81.4	78.5	79.4	78.1	76.5	76.3	74.3	135.4
NFK 9282. RPM	4000	92.2	90.1	91.1	88.1	85.8	85.9	83.8	84.2	81.9	80.4	76.1	77.1	77.2	72.5	73.3	72.1	134.5
( 972. RAD/SEC)	5000	89.0	90.6	87.3	87.4	87.4	82.3	84.2	82.3	82.3	80.4	76.5	76.2	75.2	74.8	75.6	70.8	133.9
NFD10628. RPM	6300	88.4	87.4	87.2	84.5	84.3	82.7	80.5	80.4	77.4	76.5	76.6	75.6	76.5	75.0	74.7	70.6	132.0
(1113. RAD/SEC)	8000	86.4	86.2	83.6	82.4	82.3	79.4	81.1	79.7	77.4	75.6	72.4	73.7	72.6	69.7	70.6	68.1	130.7
NO. OF BLADES 44	12500	83.7	83.8	80.4	80.4	79.9	77.7	76.3	75.5	72.6	72.6	70.6	69.6	68.6	68.1	68.1	64.9	128.5
16000	81.8	79.6	77.4	75.7	75.7	74.7	73.4	72.0	70.7	71.5	67.0	67.0	65.7	66.0	65.0	63.3	126.4	
20000	77.2	75.9	74.0	73.3	72.4	72.4	69.8	70.4	68.3	74.1	65.2	66.1	65.4	67.6	64.6	65.5	126.0	
OVERALL MEASURED	101.8	99.6	100.1	101.1	101.2	100.1	98.5	100.3	97.0	96.0	95.1	96.2	94.9	95.3	94.5	92.2	128.9	
OVERALL CALCULATED	101.2	100.2	100.3	100.6	100.9	99.5	98.6	100.2	97.5	95.6	95.3	95.5	94.7	94.8	93.8	90.8	148.4	
PWDB	114.3	112.9	113.2	112.9	112.0	111.1	109.5	109.7	107.3	106.4	104.7	105.1	104.2	103.8	103.0	100.1		

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WIND OVER LIMIT SEE RDA 536A



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.
50	78.4	79.6	75.8	78.7	78.6	77.0	75.3	76.0	76.0	76.6	73.5	72.6	74.5	75.3	74.7	77.2	125.9
63	77.7	77.7	77.7	75.5	82.7	79.8	71.4	73.0	73.0	84.7	72.7	73.0	75.6	75.3	74.8	79.1	128.2
RADIAL 100. FT. (30. M)	90	68.1	68.7	67.5	67.5	69.2	66.7	63.6	64.3	65.7	67.7	65.3	62.5	63.4	65.8	70.6	116.2
VEHICLE ATT	100	67.7	65.9	65.7	66.5	65.9	64.5	62.4	62.6	61.7	61.9	61.9	63.7	64.2	64.9	49.0	114.3
CONFIG T-0	125	67.7	64.0	63.1	66.8	65.2	67.2	63.7	63.2	63.3	62.3	62.3	64.3	64.2	66.3	67.3	115.0
LOC PTD	160	81.2	71.0	66.3	76.8	76.0	77.8	70.4	75.0	73.6	69.3	75.8	76.0	70.0	78.4	77.2	125.4
DATE 7/31/74	200	67.6	63.9	62.5	65.8	65.9	66.5	63.6	63.7	62.9	65.9	62.9	64.0	63.6	66.3	65.1	67.3
RUN 536A	250	68.8	64.9	65.7	66.7	66.0	66.9	64.4	63.7	63.7	63.8	64.1	64.8	64.8	65.5	64.0	115.0
TAPE A9R3	315	73.9	72.8	74.4	78.7	77.0	72.9	74.9	71.8	69.8	75.2	78.1	78.0	77.2	72.1	69.9	129.5
BAR 28.9 HG	400	70.7	72.0	76.6	78.8	70.9	78.1	76.8	75.7	70.8	75.7	72.6	76.0	73.8	78.1	76.2	126.1
(97696. N/M2)	500	79.3	83.5	88.5	90.7	87.8	90.2	89.5	87.6	82.0	87.0	85.0	88.0	85.0	90.1	87.9	138.0
TAMB 80. DEG F	630	80.9	87.0	84.0	88.2	92.0	93.3	91.0	97.1	95.0	87.9	89.0	92.1	88.3	86.4	89.4	142.1
(300. DEG K)	800	88.7	83.6	83.6	91.8	94.1	91.0	92.7	86.9	87.1	85.9	87.9	86.9	87.6	87.6	79.4	139.3
TMET 64. DEG F	1000	89.8	90.9	90.1	84.9	86.4	91.3	90.2	91.4	87.3	86.1	87.0	84.4	83.0	85.5	79.3	138.2
(291. DEG K)	1250	86.8	87.0	88.0	90.0	92.1	89.9	89.7	90.1	87.9	86.9	85.9	83.9	86.2	83.3	81.3	138.4
WACT10-17 GM/MS	1600	91.7	91.8	91.1	93.8	91.1	88.1	88.7	88.3	85.2	85.3	83.0	80.1	85.0	79.6	78.4	137.9
(1.01017 KG/MS)	2000	97.2	91.9	91.1	92.0	88.0	88.3	87.1	85.2	84.3	82.3	82.4	81.2	83.3	81.6	78.3	136.6
NFA 9468. RPM	2500	93.5	90.7	91.0	91.0	88.1	89.1	86.0	87.1	84.1	83.3	80.8	81.0	79.2	78.3	78.2	136.5
(991. RAD/SEC)	3150	91.9	90.1	91.8	88.0	87.1	87.4	85.8	86.2	83.4	81.1	79.2	79.4	79.2	76.9	76.2	135.2
NFK 9282. RPM	4000	91.0	91.9	89.8	89.1	87.8	87.5	84.0	85.1	81.9	81.2	76.2	78.2	77.9	73.0	74.0	135.2
(972. RAD/SEC)	5000	90.1	91.1	87.0	86.3	87.3	84.6	84.3	82.5	82.3	80.7	78.3	77.2	75.3	75.5	71.7	134.0
NFD10628. RPM	6300	88.6	87.6	87.5	84.2	84.2	83.9	81.2	80.5	78.4	77.5	76.5	75.7	76.6	74.9	74.5	132.3
(1113. RAD/SEC)	8000	86.4	86.3	84.1	83.2	83.6	80.9	81.3	79.7	77.7	76.4	73.5	73.7	72.4	69.9	70.5	131.3
NO. OF BLADES 44	10000	84.3	83.5	80.6	79.6	79.8	78.7	76.3	75.7	73.5	73.6	70.7	69.6	68.9	68.2	67.8	126.6
12500	16000	80.7	79.8	77.5	76.5	76.9	75.3	73.7	73.1	69.6	71.7	66.8	67.1	66.0	66.0	64.8	126.8
20000	77.2	75.9	74.0	74.0	74.3	74.3	72.5	70.1	69.3	68.2	75.1	65.2	66.4	65.4	67.4	64.3	127.4
OVERALL MEASURED	102.6	100.5	100.7	100.7	100.9	100.2	99.9	100.9	97.8	96.8	96.0	96.2	95.0	95.3	94.3	93.4	148.9
OVERALL CALCULATED	102.3	100.9	100.4	101.0	100.9	100.5	99.6	100.0	98.3	96.2	95.5	96.1	95.1	95.2	93.7	91.1	
PNOB	115.4	113.9	113.6	113.0	112.0	111.7	110.1	110.2	107.9	107.0	105.0	105.5	104.9	104.1	102.9	100.2	

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	79.7	80.5	77.4	79.5	78.5	78.1	77.5	78.6	76.5	78.7	74.8	73.6	74.7	77.0	75.6	76.1	127.0
	63	77.7	75.6	77.8	77.0	82.5	81.0	74.7	73.7	73.7	84.8	73.8	72.4	71.0	76.0	74.8	77.0	128.3
RADIAL 100. FT.	80	71.0	70.5	68.2	69.2	69.2	67.5	66.4	67.1	67.3	69.4	67.7	65.1	65.3	68.9	68.7	70.8	117.9
( 30. M)	100	69.3	66.3	65.7	67.5	64.5	64.7	63.4	64.5	63.0	64.6	63.9	64.5	65.0	65.3	66.9	69.0	119.1
VEHICLE ATT	125	67.8	64.1	64.2	64.9	65.1	65.2	63.7	66.1	63.9	64.0	65.0	64.7	67.0	67.6	69.1	71.6	116.1
CONFIG T=0	160	71.4	73.5	73.9	72.0	74.6	77.3	72.5	78.0	73.8	71.1	68.6	66.2	67.7	72.9	74.7	73.2	123.6
LDC PTO	200	72.7	75.5	75.9	74.5	78.0	80.0	75.6	80.0	76.1	72.7	69.9	67.5	68.6	74.3	76.8	75.8	125.9
DATE 7/31/74	250	67.6	64.9	65.0	66.0	66.9	65.9	66.0	66.0	65.1	66.0	64.7	64.6	65.8	66.3	67.2	67.1	115.9
RUN 537	315	68.6	66.7	66.9	68.6	71.7	67.1	66.6	66.7	65.9	68.2	65.7	67.6	67.8	70.1	67.9	68.2	118.0
TAPE A983	400	68.8	69.8	70.6	71.8	72.8	68.1	69.5	65.6	65.6	68.7	67.9	70.5	69.6	72.0	69.2	68.1	119.7
BAR 28.9 HG	500	70.9	72.5	71.8	72.5	72.5	70.7	68.4	70.6	68.0	71.9	71.0	68.7	74.7	76.2	73.9	69.9	122.2
(97696. N/M2)	630	70.0	68.8	70.9	71.2	70.8	69.1	69.1	72.0	68.4	71.0	70.3	69.0	70.0	71.5	71.2	69.6	120.6
TAMR 80. DEG F	800	71.8	71.1	72.9	74.8	71.8	70.2	69.6	73.8	70.0	71.1	68.8	69.0	69.1	70.4	70.0	67.4	121.2
(300. DEG K)	1000	72.9	71.9	73.6	73.8	72.0	71.3	71.1	74.2	72.2	71.0	71.1	71.9	71.3	72.5	71.6	68.4	122.4
TMET 64. DEG F	1250	74.5	73.0	75.9	78.7	74.7	73.8	74.6	73.7	73.8	72.8	74.0	74.0	73.1	73.2	74.1	70.1	124.6
(291. DEG K)	1600	73.7	73.6	76.0	76.9	75.9	73.8	73.0	74.0	70.9	72.1	71.9	74.1	73.2	73.2	72.4	68.6	123.8
MACT10.17 GM/M3	2000	74.9	76.2	77.1	79.1	77.9	74.3	74.8	73.8	74.1	75.3	72.9	76.2	74.3	75.6	75.9	71.7	126.0
(.01017 KG/M3)	2500	75.6	76.8	78.7	79.9	79.0	77.0	75.8	73.6	73.9	75.0	73.8	75.9	76.1	77.1	76.9	72.4	127.0
MFA10750. RPM	3150	76.7	75.9	78.0	80.2	77.0	76.1	76.0	75.2	74.2	74.2	76.3	77.2	76.4	77.5	77.1	71.0	127.6
(1126. RAD/SEC)	4000	76.9	75.7	77.8	80.1	80.0	77.3	73.9	74.9	75.1	74.3	73.9	77.4	79.2	74.1	76.1	73.2	127.7
MFK10539. RPM	5000	76.2	76.4	76.2	79.0	79.4	75.5	77.3	76.1	76.5	76.4	77.5	78.4	78.5	77.4	77.6	71.6	128.0
(1103. RAD/SEC)	6300	75.3	74.5	76.5	76.3	77.4	76.5	74.2	73.4	71.7	73.4	75.3	74.9	75.8	76.0	75.7	71.0	126.7
MFD10628. RPM	8000	75.1	76.3	76.4	77.5	79.2	76.7	79.5	78.6	76.5	76.4	74.6	77.6	75.3	73.5	75.5	73.7	129.1
(1113. RAD/SEC)	10000	72.7	71.4	71.4	72.7	73.6	71.9	71.5	71.7	71.0	70.9	70.8	73.1	71.6	70.9	71.8	65.9	124.7
N. OF BLADES 44	12500	69.6	67.6	67.5	68.6	68.6	67.8	67.6	67.3	67.0	69.7	67.2	68.2	67.0	65.1	66.6	63.1	121.8
	16000	71.8	66.1	65.9	67.0	67.0	66.6	66.9	65.3	65.0	72.6	64.3	67.3	66.5	64.3	66.2	63.7	123.4
	20000	75.3	65.7	64.3	65.5	63.3	64.6	63.2	63.3	65.4	72.7	62.5	65.9	63.7	66.0	63.9	63.8	125.2
OVERALL MEASURED		91.9	90.8	88.6	91.8	91.8	91.1	91.0	91.0	89.8	91.9	89.9	90.4	90.2	89.9	91.2	90.1	
OVERALL CALCULATED		88.4	88.1	89.0	90.2	90.3	89.0	87.8	88.4	86.8	89.1	86.3	87.4	87.4	87.9	88.0	85.6	139.2
PND8		100.5	100.1	101.7	103.2	103.0	100.9	100.8	100.1	99.1	99.6	99.5	100.5	101.3	100.8	100.8	97.2	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	79.2	79.5	78.4	78.4	78.8	76.9	75.6	77.4	75.5	77.6	74.8	73.8	75.5	76.9	75.0	76.9	126.3	
63	77.7	77.4	77.6	75.5	82.9	80.1	73.6	74.5	73.9	84.7	74.9	75.1	77.8	77.2	74.0	78.0	128.6	
RADIAL 100. FT. (30. H)	80	70.3	68.3	66.2	68.2	72.5	65.7	65.1	64.3	66.6	69.7	66.6	65.8	66.3	67.9	67.0	68.7	117.5
VEHICLE ATY	100	69.4	65.5	65.7	66.5	70.6	64.7	64.8	65.5	62.9	65.6	64.7	66.3	65.6	66.2	65.9	67.2	115.0
CONFIG T=0	125	70.0	64.8	64.1	66.1	67.9	64.3	64.7	64.2	64.1	66.1	64.3	65.3	55.2	66.3	68.2	68.6	115.7
LCC PTO	160	80.5	68.9	64.8	75.5	75.6	77.7	69.4	75.8	75.0	70.7	75.8	77.1	68.7	78.1	77.2	78.1	125.4
DATE 7/31/74	200	70.8	62.6	62.6	68.9	66.6	64.7	63.4	64.5	64.0	67.0	63.8	64.7	63.9	66.1	65.2	66.0	115.2
MUN 53R	250	71.9	64.8	65.7	69.7	66.7	65.1	64.8	66.0	64.1	65.2	64.8	64.8	64.9	65.1	64.4	65.5	115.6
TAPE 4983	315	76.6	74.7	75.9	79.7	80.0	76.1	70.3	71.6	68.0	76.9	79.2	78.2	76.8	71.0	67.3	71.4	126.2
BAR 28.9 HG	400	74.6	71.8	76.8	79.0	76.6	76.9	78.8	75.6	72.8	76.8	76.1	74.9	70.9	76.0	75.9	73.0	126.1
(97696, N/M2)	500	82.5	81.8	87.6	89.7	88.1	88.8	90.0	87.6	84.0	87.9	88.0	87.0	82.0	88.1	87.9	85.0	137.9
TAMP 80. DEG F	630	83.2	86.1	86.8	90.0	93.9	92.1	91.9	96.3	95.3	90.0	88.0	91.3	87.0	84.4	88.5	84.8	142.0
(300. DEG K)	800	93.0	83.6	83.6	92.8	93.8	92.0	94.7	89.9	92.2	84.1	89.1	91.9	90.1	86.2	80.3	82.5	141.0
TMET 64. DEG F	1000	89.3	89.9	91.0	86.9	89.4	92.5	89.7	90.2	87.1	84.1	86.3	85.2	78.3	87.5	79.2	77.4	138.2
(291. DEG K)	1250	88.0	88.7	88.8	90.0	90.6	91.2	90.9	89.7	86.3	85.9	86.2	82.2	86.2	85.2	81.2	77.5	138.3
WACT 10.17 GM/M3	1600	93.1	93.1	91.2	92.1	90.0	89.0	90.7	88.8	88.3	86.0	84.0	80.4	84.0	79.3	77.1	77.6	138.2
(.01017 KG/M3)	2000	98.2	93.1	96.2	91.0	87.1	89.2	87.9	90.9	87.3	87.2	84.0	80.2	84.3	92.7	78.5	77.6	137.9
NFA 9480. RPM	2500	93.9	92.7	96.9	89.7	88.2	90.1	88.7	87.7	84.8	84.2	82.1	80.9	79.8	79.4	78.1	75.0	137.1
(990. RAD/SEC)	3150	92.1	90.0	92.2	88.2	87.1	88.6	86.8	87.3	83.3	83.0	80.5	80.2	78.5	77.6	76.4	74.4	136.2
NFK 9274. RPM	4000	92.4	92.7	90.8	91.6	88.1	87.9	85.6	85.8	83.1	81.2	77.0	79.4	77.9	72.1	74.0	72.2	136.3
(971. RAD/SEC)	5000	91.4	91.3	88.4	88.5	86.6	84.4	86.2	84.2	83.2	81.2	79.4	77.7	75.5	74.8	75.2	71.7	135.1
NFD 10628. RPM	6300	90.6	88.6	87.2	84.2	84.8	84.7	82.3	81.4	78.7	77.9	76.5	76.5	76.7	76.0	74.7	71.0	132.9
(1113. RAD/SEC)	8000	87.9	86.4	84.3	83.4	84.0	81.5	82.2	81.4	77.8	77.7	73.7	74.4	72.4	70.6	70.8	68.0	131.9
NO. OF BLADES 44	12500	84.8	83.7	81.4	80.7	81.0	79.6	77.4	76.5	73.6	73.8	71.7	70.6	68.6	68.0	68.2	65.4	129.4
16000	81.9	79.5	77.5	76.5	77.3	75.8	73.6	73.7	70.7	71.7	67.8	68.1	66.1	63.3	64.1	62.1	127.0	
20000	78.2	76.2	74.3	74.2	73.6	72.5	70.3	69.9	68.1	73.5	64.2	66.5	64.1	64.8	64.3	63.7	126.8	
OVERALL MEASURED	102.7	101.4	100.9	100.9	101.8	101.3	100.7	100.8	98.8	97.8	96.0	96.6	95.1	95.5	94.4	93.2	128.9	
OVERALL CALCULATED	103.5	101.6	100.7	101.1	101.1	100.9	100.9	100.0	99.4	96.9	96.2	96.8	95.1	94.8	93.4	91.4	149.4	
PND8	116.6	114.6	113.9	113.9	112.3	112.4	111.5	111.5	108.6	108.0	106.1	105.7	105.1	104.2	102.5	100.5		

WIND OVER LIMIT SEE RDE 538B

		0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
	FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	78.4	79.2	76.6	78.3	78.9	78.6	76.3	77.6	75.6	76.5	73.4	73.9	74.9	75.8	74.7	77.9	126.3
	63	77.7	77.9	77.5	76.7	82.9	79.7	74.5	74.6	74.6	84.1	73.8	74.7	77.4	77.1	75.1	79.4	128.4
RADIAL 100. FT.	80	71.1	69.6	70.3	69.1	74.5	69.8	67.4	67.5	67.7	68.7	66.3	63.8	63.7	66.9	66.9	70.7	118.9
( 30. M)	100	69.3	68.4	68.7	70.5	73.8	72.7	66.6	65.6	65.7	64.6	63.5	63.9	64.0	65.2	65.9	69.0	117.9
VEHICLE ATT	125	72.9	74.2	74.8	78.7	78.0	80.3	66.8	69.8	66.2	68.1	64.4	68.3	65.5	66.5	68.6	69.4	123.1
CONFIG T=0	160	80.7	69.7	67.8	76.7	76.6	78.9	68.4	74.7	73.0	69.8	76.8	75.7	68.9	78.3	77.2	79.2	125.6
LOC PTO	200	68.4	69.9	67.5	67.9	76.7	68.8	64.8	64.6	63.9	66.0	62.9	66.1	64.1	66.0	66.2	67.1	118.1
DATE 7/31/74	250	68.8	68.0	70.0	70.7	72.7	70.2	64.6	64.9	63.7	64.2	63.9	64.8	64.8	65.5	65.3	66.2	117.1
RUN 538A	315	73.5	73.9	74.6	76.7	78.1	75.9	75.7	72.9	69.8	74.1	77.9	78.2	76.2	73.2	71.0	69.5	125.5
TAPE A983	400	72.7	72.5	77.5	76.6	78.6	77.7	76.6	74.5	69.8	73.7	71.8	74.9	72.8	77.1	75.9	72.4	125.6
GAR 28.9 HO	500	80.5	82.7	87.6	89.8	86.8	89.1	88.9	87.6	81.0	86.0	82.9	86.0	84.1	89.1	87.3	84.0	137.0
(97696. N/M2)	630	84.0	87.0	81.8	88.8	93.0	94.5	92.0	96.8	95.1	87.1	89.1	92.0	88.9	86.7	88.2	82.4	142.2
TAMB 80. DEG F	800	89.8	82.9	86.8	90.7	95.8	90.0	92.9	86.7	87.8	87.2	86.8	84.1	86.0	85.5	80.1	80.2	139.3
(300. DEG K)	1000	88.9	89.3	90.0	87.9	90.4	91.5	88.1	90.0	87.1	83.4	85.3	82.5	81.1	84.7	78.3	78.5	137.6
TMET 64. DEG F	1250	89.1	86.9	87.8	91.0	91.9	90.3	89.6	89.6	87.9	86.9	85.9	82.9	85.8	83.4	81.0	77.5	138.3
(291. DEG K)	1600	93.1	91.3	88.8	94.0	92.8	87.1	88.0	86.7	85.0	85.3	81.9	79.3	83.7	79.4	79.1	77.3	137.5
WACT10.17 GM/M3	2000	94.0	92.2	92.2	90.9	88.3	86.4	85.8	85.9	84.3	83.1	81.0	80.4	81.9	80.5	78.4	77.3	136.2
(31017 KG/M3)	2500	92.6	91.0	91.7	90.0	87.8	89.0	85.6	85.6	83.1	82.8	80.7	80.9	78.7	78.6	78.1	75.1	136.0
NFA 9460. RPM	3150	91.0	90.1	91.3	88.1	88.1	87.4	85.9	85.1	83.1	82.1	78.3	78.9	78.0	77.5	76.5	73.4	135.4
( 990. RAD/SEC)	4000	91.8	90.9	90.9	89.8	86.9	85.1	83.9	84.7	82.0	79.9	76.0	78.0	77.1	72.4	73.1	71.5	134.8
NFK 9274. RPM	5000	89.5	90.3	88.2	88.1	88.3	83.5	85.1	83.1	82.3	80.6	78.5	76.6	75.1	74.6	75.7	71.8	134.5
( 971. RAD/SEC)	6300	89.3	87.6	87.3	85.0	84.3	84.3	81.2	80.5	78.6	77.5	75.6	75.4	75.5	75.7	74.6	70.5	132.4
NFO10628. RPM	8000	86.4	85.6	85.4	83.4	82.6	80.4	81.3	80.2	77.5	76.5	72.2	74.8	72.2	71.0	72.9	68.0	131.3
(1117. RAD/SEC)	10000	84.4	83.7	82.4	80.5	80.6	80.6	76.6	75.4	73.6	74.3	71.6	69.6	68.7	68.2	70.7	67.2	129.5
NO. OF BLADES 44	12500	81.4	80.9	82.6	77.8	77.6	78.7	73.4	72.9	70.9	71.0	67.6	68.1	66.7	56.3	67.9	64.5	128.6
	16000	77.8	78.0	83.8	83.9	75.8	82.4	70.9	69.9	69.2	75.1	66.3	67.2	65.3	67.5	70.7	65.7	132.3
	20000	76.5	75.3	80.4	82.5	77.3	78.5	68.2	68.3	68.5	75.8	65.6	69.5	67.9	70.1	74.8	68.0	133.6
OVERALL MEASURED		103.0	101.8	102.0	102.0	102.1	101.0	98.9	99.4	98.1	96.9	95.9	95.9	95.4	95.6	94.4	94.2	148.9
OVERALL CALCULATED		101.8	100.6	100.7	101.1	101.7	100.5	99.4	106.1	98.3	95.9	94.8	95.4	94.4	94.5	93.3	90.7	148.9
PNDP		114.5	113.5	113.0	112.9	112.6	111.6	110.0	109.8	107.9	106.6	104.6	105.1	104.0	103.6	102.6	100.2	

WIND OVER LIMIT SEE RDS 5323

538A

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
	50	79.3	79.6	75.6	78.5	78.5	76.6	75.5	76.7	75.8	77.6	73.7	73.8	74.9	76.1	75.0	77.2	126.1
	63	77.4	77.8	77.6	75.6	82.6	79.9	73.3	74.7	73.9	84.7	73.6	74.0	77.2	76.2	75.0	78.3	126.4
RADIAL 100. FT. ( 30. M)	80	69.2	69.3	67.2	67.6	67.5	65.7	64.1	64.3	64.6	67.6	65.4	62.8	63.5	64.7	65.6	68.6	115.7
VEHICLE ATT	100	68.7	66.6	65.5	65.9	64.8	64.0	63.2	61.8	61.9	61.6	62.0	63.0	62.7	64.3	65.2	67.2	113.0
CONFIG T=0	125	69.0	69.1	63.8	65.2	65.0	64.1	63.7	62.9	62.3	62.0	62.4	63.3	64.1	66.3	66.9	69.4	114.5
LOC PTD	160	81.4	69.9	66.5	75.9	75.7	78.1	68.9	74.6	72.7	69.0	76.1	76.8	68.7	78.3	77.2	79.3	125.3
DATE 7/31/74	200	68.4	63.6	63.5	65.5	65.6	65.1	63.9	63.9	62.8	65.9	64.1	63.9	63.9	66.1	65.1	66.0	114.7
RUN 5388	250	69.8	65.9	65.7	66.6	66.0	66.1	64.0	64.4	63.2	64.7	63.8	64.2	64.9	65.2	65.0	66.2	115.0
TAPE A983	315	72.6	71.9	73.6	78.0	79.7	76.2	72.6	73.0	69.9	75.8	78.8	78.2	77.3	71.9	69.2	72.0	126.3
BAR 28.9 HG (97596. N/M2)	400	71.5	71.6	76.4	77.9	75.8	77.0	76.6	73.9	70.5	75.1	71.9	74.7	71.9	76.0	74.6	72.0	125.0
TMR 80. DEG F (300. DEG K)	500	81.4	80.7	87.6	89.6	87.7	88.2	88.5	86.9	81.8	87.0	83.7	86.8	82.8	88.0	87.2	83.3	136.9
WET 64. DEG F (291. DEG K)	630	83.8	85.1	84.0	86.9	93.0	93.5	92.3	96.1	95.4	89.4	87.1	92.2	88.2	84.6	89.2	86.7	142.1
MACT10.17 GM/M3 (.01017 KG/M3)	800	91.0	83.4	83.6	92.1	93.1	90.0	92.4	87.1	87.0	85.2	85.0	88.0	86.9	85.2	79.3	80.2	138.7
NFA 9462. RPM ( 991. RAD/SEC)	1000	89.9	89.3	90.9	85.9	88.3	92.2	89.8	91.2	87.4	84.3	87.3	83.4	82.1	86.5	79.3	78.7	138.2
NFK 9276. RPM ( 971. RAD/SEC)	1250	86.9	88.1	89.0	90.1	91.9	91.0	90.8	89.9	88.0	87.0	86.7	83.0	86.1	84.3	81.0	76.3	138.0
NFD10628. RPM (1113. RAD/SEC)	1600	94.0	93.1	90.9	92.8	91.0	88.4	89.2	87.1	86.4	84.0	81.0	80.1	84.2	79.3	77.3	77.2	137.6
NO. OF BLADES 44	2000	100.2	94.1	90.9	92.0	88.3	86.4	87.0	88.0	85.2	84.1	83.0	81.1	83.4	81.6	78.3	76.6	137.0
	2500	91.6	92.0	91.9	90.7	88.8	89.0	86.9	86.0	83.9	84.1	81.1	81.0	79.9	79.2	78.1	75.0	136.0
	3150	91.2	91.0	91.5	88.8	88.4	88.5	87.0	85.9	83.5	82.2	79.2	79.5	78.5	76.6	76.3	74.4	136.0
	4000	92.0	91.8	91.0	90.9	87.2	88.0	85.0	84.7	82.1	80.3	77.0	78.3	78.7	73.3	74.0	72.5	135.8
	5000	90.1	90.5	88.1	88.2	88.5	84.3	85.4	83.4	82.6	81.3	79.6	77.6	76.4	74.9	75.6	71.6	134.8
	6300	89.3	88.4	87.2	85.3	84.5	84.8	81.5	80.7	78.4	77.8	75.7	74.6	76.8	74.9	74.7	71.0	132.7
	8000	86.1	86.0	85.1	84.0	83.6	80.3	81.2	79.6	77.7	76.4	73.3	73.5	72.4	70.7	70.8	67.7	131.3
	10000	84.6	83.7	81.4	80.4	80.9	79.0	77.5	75.6	73.6	73.6	70.9	70.7	68.6	67.9	68.1	66.0	129.2
	12500	81.5	79.8	78.5	77.8	76.9	76.1	73.4	73.9	70.7	72.7	68.0	68.2	66.9	65.3	65.3	64.0	127.4
	16000	78.0	76.3	75.3	73.2	76.3	73.2	70.9	69.9	68.1	73.4	65.4	67.5	65.5	67.5	65.7	65.5	127.5
	20000	76.1	73.4	73.3	74.3	76.6	71.6	67.5	66.4	66.7	74.7	64.7	66.6	65.6	69.1	66.6	67.5	129.0
OVERALL MEASURED		103.7	101.7	100.7	102.1	100.9	101.1	99.8	100.0	98.1	96.9	94.8	96.0	95.0	95.2	94.5	93.6	
OVERALL CALCULATED		103.7	101.5	100.7	101.1	101.0	100.5	99.9	100.1	98.6	96.3	94.8	96.0	94.7	94.2	93.4	91.4	148.9
PND8		117.2	114.1	113.5	113.6	112.3	111.9	110.7	109.9	108.2	107.1	104.9	105.4	104.8	103.6	102.7	100.8	

538B

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	79.7	80.5	76.6	79.9	78.6	77.7	76.6	78.5	76.9	77.9	73.7	73.9	74.6	75.9	74.7	76.0	126.7
63	77.9	76.6	77.9	78.1	82.7	79.9	73.6	72.7	73.7	83.8	73.8	72.2	71.8	76.1	75.1	77.6	127.0
RADIAL 100. FT. (36. M)	80	70.3	70.2	69.1	69.3	68.6	67.3	66.1	66.5	67.4	68.7	67.3	64.8	64.6	67.8	67.8	117.5
VEHICLE ATT	100	67.4	66.8	66.5	66.5	64.8	64.7	63.4	64.6	62.9	64.0	64.6	64.8	64.9	66.0	65.9	115.1
CONFIG T=0	125	66.1	64.1	63.8	65.2	65.0	65.1	63.0	67.1	64.2	64.4	65.0	65.2	67.4	67.7	68.4	116.3
LOC PTD	160	70.3	73.6	73.7	73.0	75.0	77.9	72.4	77.9	73.2	70.8	67.6	68.2	67.9	72.8	74.9	123.7
DATE 7/31/74	200	73.5	76.7	76.4	75.0	78.0	79.9	75.5	81.0	75.9	73.1	68.6	68.1	68.6	74.3	76.9	126.1
RUN 539	250	66.2	65.8	64.9	66.7	65.8	65.7	64.9	65.7	65.2	64.9	63.8	65.9	65.8	66.1	66.3	115.7
TAPE A983	315	66.3	67.0	67.7	69.1	70.7	67.0	66.7	67.0	66.8	67.9	65.9	68.1	68.1	70.2	68.4	118.1
BAR 26.9 HG	400	67.2	69.7	70.8	71.8	72.7	67.7	67.4	64.8	67.1	66.9	67.6	70.8	69.9	71.3	68.9	119.4
(97696. N/M2)	500	70.2	73.7	72.5	73.7	72.6	72.8	67.5	70.4	68.7	71.1	71.7	68.6	75.8	78.1	74.7	123.1
TAMB 80. DEG F	630	69.6	69.9	71.1	72.2	70.3	70.1	68.7	69.6	68.0	69.9	70.2	69.4	70.0	71.6	72.2	120.4
(300. DEG K)	800	70.4	71.0	72.6	74.8	71.1	70.8	69.8	70.8	69.8	70.2	68.8	69.0	69.7	70.4	69.4	120.7
THET 64. DEG F	1000	72.5	72.9	73.8	75.0	72.2	72.2	72.0	71.6	71.2	72.2	70.3	72.2	71.0	72.5	71.1	122.4
(291. DEG K)	1250	74.2	73.6	76.7	79.0	75.2	73.9	75.7	72.9	72.8	73.2	74.1	75.3	73.0	74.4	73.2	124.9
HACT10.17 GM/M3	1600	73.5	74.0	74.9	76.9	73.8	74.0	73.8	73.9	72.0	73.0	71.1	74.1	73.1	73.4	73.2	124.0
(.01017 KG/M3)	2000	73.7	76.2	76.1	79.3	78.3	75.1	73.7	74.0	74.2	75.3	72.9	76.2	73.2	75.3	75.5	125.9
NFA10750. RPM	2500	74.4	76.8	78.9	80.7	78.8	76.1	76.0	73.6	74.0	75.7	72.7	75.9	75.9	78.2	76.9	127.1
(1126. RAD/SEC)	3150	73.9	75.2	78.0	80.4	77.3	75.1	78.8	75.8	75.4	75.0	76.3	77.1	76.4	78.8	77.5	127.8
NFK10539. RPM	4000	75.4	76.1	77.8	80.3	80.1	78.0	74.7	75.9	75.9	74.9	74.9	77.3	79.0	74.2	76.0	128.0
(1103. RAD/SEC)	5000	74.8	76.1	77.3	79.5	78.3	75.2	77.3	77.0	76.3	75.2	78.2	78.5	78.3	76.8	77.7	128.5
NFD10628. RPM	6300	74.5	75.4	77.1	76.7	76.4	75.4	73.4	74.2	71.7	73.9	75.8	74.5	75.4	75.7	76.6	126.6
(1113. RAD/SEC)	8000	74.0	76.4	77.1	77.3	79.7	76.4	81.2	78.4	78.8	77.7	75.4	78.8	74.6	73.9	75.4	129.9
NO. OF BLADES 44	12500	70.5	70.8	71.5	72.9	72.5	70.9	71.7	71.4	70.7	70.3	70.5	73.0	71.6	70.9	71.8	124.4
16000	67.6	67.9	67.8	68.6	68.9	67.7	67.6	67.5	66.1	69.0	66.7	68.0	66.9	65.3	67.2	63.1	121.7
20000	66.0	67.0	65.9	66.0	66.3	66.2	66.2	65.9	65.2	73.2	64.4	67.2	66.5	64.7	65.4	61.5	123.5
OVERALL MEASURED	64.3	65.6	62.9	63.6	64.3	64.7	65.5	63.4	65.8	74.5	61.4	65.9	64.7	64.0	64.9	64.2	125.9
OVERALL CALCULATED	91.2	90.8	89.0	92.0	92.1	91.3	91.0	90.9	90.1	92.2	89.9	89.9	89.9	90.3	92.1	90.6	
PND8	87.3	88.4	88.9	90.8	90.2	88.8	88.1	88.4	87.1	88.9	86.4	87.7	87.3	88.2	88.0	85.5	139.3
	99.3	100.3	101.7	103.6	102.9	101.1	101.1	100.1	99.5	99.5	99.7	100.7	101.1	101.5	101.0	97.0	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PNL	
FREQ. (0.	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	79.2	79.6	77.4	78.4	78.7	77.7	76.5	78.9	76.5	76.8	74.9	74.9	77.9	78.9	79.3	78.8	127.4	
63	75.7	74.5	76.8	73.6	81.6	79.0	70.7	72.7	72.6	83.7	70.7	72.1	72.7	75.3	75.2	75.9	127.1	
RADIAL 100. FT. ( 30. M)	80	68.1	67.4	66.5	66.2	66.4	65.4	64.3	66.5	65.6	67.6	64.6	62.5	62.6	64.7	65.1	68.6	119.5
VEHICLE ATT	100	68.4	65.6	65.5	65.4	63.6	64.0	63.6	64.8	65.7	62.7	63.0	63.8	62.9	64.3	66.3	67.2	114.4
CONFIG T=0	125	70.8	64.8	65.1	65.2	64.2	66.3	66.1	64.8	65.2	65.4	62.3	65.3	66.2	65.7	67.4	67.6	115.5
LDC PTO	160	68.6	71.7	67.6	69.8	69.7	74.1	74.9	67.0	73.6	73.7	65.1	76.0	75.6	71.1	74.1	71.0	123.0
DATE 7/31/74	200	68.7	62.5	65.5	65.6	64.6	64.8	64.8	67.8	66.9	68.1	61.7	63.0	63.7	64.3	64.0	65.3	115.4
MUN 740	250	70.5	66.7	67.8	67.0	69.7	68.1	69.6	73.0	68.0	65.1	71.7	68.1	67.1	69.1	66.1	66.1	118.6
TAPE A983	315	76.5	77.0	78.6	76.9	82.7	79.8	81.8	82.8	78.1	75.2	81.0	80.2	82.5	77.2	75.0	130.1	
BAR 28.9 HD	400	79.4	78.0	82.8	86.5	82.8	79.8	81.6	80.7	71.7	70.8	82.7	80.7	79.7	80.1	70.2	76.3	130.7
(97676. N/M2)	500	84.3	83.8	87.6	92.8	88.9	86.7	88.6	87.9	83.0	80.7	88.8	88.1	85.8	86.4	82.1	83.2	137.5
TANG 80. DEG F	630	86.0	87.2	86.1	91.9	91.1	96.1	96.1	98.1	97.0	94.4	95.0	96.2	96.3	87.4	95.7	94.4	149.3
(300. DEG K)	800	91.8	89.9	89.0	86.6	96.2	92.8	93.0	99.0	96.8	94.2	97.8	94.2	99.3	92.4	92.5	95.0	146.1
TWET 64. DEG F	1000	89.1	91.4	96.3	95.9	97.3	100.2	98.2	95.3	94.2	90.2	90.3	91.4	92.1	84.4	82.3	86.4	145.0
(291. DEG K)	1250	94.8	94.9	100.8	100.6	99.9	95.8	94.9	96.0	94.8	92.2	93.1	95.0	89.2	88.5	87.2	86.1	145.8
MACT10.17 GM/MS	1600	96.9	98.2	98.2	97.8	95.2	96.2	93.9	93.0	91.0	88.4	87.0	88.4	84.0	80.5	84.3	81.3	143.1
(.01017 KG/MS)	2000	98.8	99.0	96.0	95.9	93.1	94.3	93.1	96.5	92.1	90.2	88.4	86.4	86.3	84.2	84.6	79.4	142.9
NFA 9112. RPM	2500	94.5	95.8	98.6	98.8	94.8	95.2	93.1	91.8	88.7	86.9	86.0	83.8	84.7	83.0	82.2	78.1	142.7
( 954. RAD/SEC)	3150	94.9	95.3	96.9	92.9	95.3	93.0	92.1	90.1	88.3	87.4	83.2	83.1	83.2	81.3	80.3	77.4	141.1
NFK 8933. RPM	4000	97.9	95.9	95.0	95.8	95.7	91.9	91.0	91.0	88.0	85.9	82.1	82.4	81.1	76.2	76.3	75.3	141.2
( 935. RAD/SEC)	5000	95.2	96.2	92.2	93.0	95.1	90.3	90.6	89.6	88.3	87.4	83.3	81.3	80.2	78.5	78.7	74.7	140.5
NFD10628. RPM	6300	94.4	93.3	93.6	91.4	90.5	90.8	88.5	86.4	83.6	83.4	80.4	79.4	79.4	77.8	75.6	72.9	138.5
(1113. RAD/SEC)	8000	92.1	92.3	89.6	89.4	89.7	86.4	87.7	85.9	83.3	81.7	77.7	77.7	75.4	71.6	71.8	70.6	137.1
NO. OF BLADES 44	10000	90.6	89.9	87.4	86.4	85.9	84.9	83.8	81.5	79.6	79.1	76.8	73.8	72.6	70.1	69.9	68.0	134.9
12500	85.5	85.6	83.6	83.5	82.7	81.8	80.7	79.6	78.6	76.7	73.0	71.1	70.0	65.2	66.2	64.2	133.0	
16000	82.8	82.2	80.1	79.9	80.3	78.1	77.1	76.4	73.3	76.4	69.3	69.2	67.3	64.5	63.7	63.5	131.9	
20000	79.5	78.5	76.4	76.2	78.4	74.4	73.8	71.6	71.7	75.7	68.4	69.6	68.5	64.0	64.0	63.7	132.0	
OVERALL MEASURED	105.9	105.9	106.0	106.9	105.9	106.1	105.2	104.8	103.3	101.0	101.1	101.1	101.9	96.3	99.3	99.2	154.3	
OVERALL CALCULATED	106.1	106.2	107.0	106.8	106.4	105.8	104.8	105.4	103.4	101.1	102.0	101.5	101.5	97.0	98.8	98.8		
PNDB	119.3	118.5	119.3	119.3	116.4	117.1	115.8	116.2	113.2	111.4	110.7	110.3	110.5	106.5	107.5	106.5		

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 8 DAY 29 HR. 15:7

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL, HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	78.6	77.5	75.7	77.7	77.7	77.8	75.7	76.7	74.8	77.0	72.8	72.9	72.9	75.2	74.0	76.9	125.6	
63	75.6	70.7	75.5	72.0	81.5	79.0	69.6	68.7	70.9	84.0	69.3	68.0	65.1	70.0	68.2	74.0	126.4	
RADIAL 100. FT. (30. M)	80	73.9	66.3	65.2	66.3	67.3	66.7	64.2	64.3	65.3	66.6	62.9	59.7	60.5	62.7	62.6	70.6	115.0
VEHICLE ATT	100	72.3	65.5	65.7	66.5	64.5	66.9	64.5	66.5	63.6	65.9	66.1	66.1	66.1	66.9	63.9	70.0	116.0
CONFIG T=0	125	71.6	66.9	65.9	65.9	66.0	66.3	66.0	66.9	69.0	67.1	66.4	65.1	70.4	67.5	67.2	69.6	117.5
LOC PTO	160	74.7	70.0	68.6	69.9	72.9	68.0	68.8	70.5	73.7	69.1	71.0	68.1	76.2	71.9	70.9	70.4	121.5
DATE 7/31/74	200	73.8	67.5	65.8	65.6	66.0	65.0	64.5	71.6	63.7	67.7	60.9	61.9	63.2	63.3	63.2	65.3	115.9
HUN 541	250	69.6	65.7	67.9	69.7	67.9	67.8	65.9	70.9	65.1	65.1	63.0	62.9	66.9	67.0	63.2	65.4	116.9
TAPE A983	315	71.8	68.0	68.9	70.9	72.2	72.8	68.9	73.7	67.8	68.2	67.1	67.0	71.3	71.0	65.4	66.2	120.2
BAR 28.9 HG	400	75.5	73.6	77.8	76.5	71.8	74.8	74.6	74.6	76.8	76.0	74.9	70.1	77.0	72.0	75.9	75.2	125.3
(97689. N/M2)	500	74.3	80.0	79.6	76.8	74.9	79.7	83.6	79.3	77.9	81.9	73.8	74.7	75.8	82.0	83.9	82.3	130.3
TAMB 79. DEG F	630	82.8	88.3	91.0	92.0	85.3	93.3	94.1	93.0	89.1	90.2	91.4	92.2	87.2	90.7	91.2	89.3	141.5
(299. DEG K)	800	87.9	87.8	94.9	97.9	89.7	98.1	96.9	98.0	93.9	92.0	97.0	97.2	93.1	92.4	85.0	80.5	145.6
THET 64. DEG F	1000	93.1	90.3	96.0	96.1	93.7	94.3	96.1	93.9	92.4	91.1	87.2	88.2	89.1	84.7	84.2	86.4	142.7
(291. DEG K)	1250	98.9	97.1	103.0	102.9	102.8	100.1	102.9	103.1	98.6	99.2	94.2	96.3	95.3	86.4	91.1	91.2	150.1
MACT 10.99 GM/M3	1600	98.7	99.4	96.9	97.0	93.8	93.3	96.8	99.7	91.3	91.4	88.3	88.2	90.1	87.3	87.3	85.3	143.6
(.01059 KG/M3)	2000	95.7	97.1	96.0	98.3	98.2	98.0	96.0	99.2	95.0	94.1	88.2	87.1	88.2	87.4	86.3	83.4	145.6
NFA 8682. RPM	2500	97.6	98.8	98.6	100.1	97.6	97.9	95.5	94.6	92.8	91.0	86.8	84.9	87.2	85.4	84.9	80.4	144.0
(989. RAD/SEC)	3150	95.7	96.3	97.0	95.3	95.2	97.1	96.8	96.0	93.3	91.4	88.2	86.2	85.2	82.4	81.3	79.6	144.2
NFK 8523. RPM	4000	97.0	96.2	97.0	96.5	96.0	95.0	95.6	93.7	91.2	89.0	84.1	84.2	85.1	79.2	78.3	78.2	143.3
(592. RAD/SEC)	5000	99.9	96.2	94.1	95.6	97.1	94.6	94.9	93.0	93.1	90.4	87.3	84.1	84.4	81.7	80.7	77.7	143.4
NFD10428. RPM	6300	95.3	94.5	94.6	92.9	93.2	94.5	91.4	89.6	87.6	86.7	84.6	81.6	82.6	78.6	77.8	75.5	141.1
(1113. RAD/SEC)	8000	92.0	92.6	91.5	92.5	92.3	90.4	91.5	89.3	87.3	85.6	81.8	80.4	78.6	74.9	74.4	72.6	140.2
NO. OF BLADES 44	12500	90.6	90.8	88.7	89.1	89.4	88.8	87.6	85.5	83.0	82.7	79.8	76.5	75.6	72.7	72.6	70.7	138.0
16000	86.5	86.4	84.5	84.8	85.6	84.5	84.5	84.5	83.4	80.4	79.5	75.9	72.8	71.8	67.0	67.7	65.9	135.6
20000	82.8	82.7	80.8	80.8	81.9	83.6	80.8	79.6	77.7	77.8	71.2	70.0	67.9	65.1	64.9	63.3	63.3	134.6
OVERALL MEASURED	106.6	107.0	107.6	107.7	106.8	106.9	106.8	106.8	104.2	103.5	101.1	101.2	100.3	97.2	97.2	97.1	97.1	133.3
OVERALL CALCULATED	106.7	106.8	108.0	108.5	107.4	107.2	107.7	107.0	104.1	103.5	101.3	101.7	100.2	97.7	97.2	96.8	96.8	155.7
PNDR	119.1	119.4	119.7	120.5	118.9	119.3	119.1	118.5	115.7	114.5	111.3	110.6	110.3	107.9	107.4	106.8		



	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	78.5	78.4	75.5	77.6	77.7	75.9	75.3	77.5	75.6	75.8	72.8	71.6	73.9	75.8	74.9	74.9	125.4	
63	77.4	77.7	77.7	74.9	82.6	79.0	73.8	74.6	74.9	83.7	70.3	69.8	72.8	76.0	73.2	74.0	127.4	
RADIAL 100. FT. (30. M)	80	68.1	68.3	67.5	67.4	68.3	66.5	64.1	65.1	66.8	67.6	65.9	62.8	64.7	65.9	65.9	68.7	116.1
VEHICLE ATT	100	67.6	66.5	66.6	65.7	65.6	64.9	64.4	64.4	63.9	61.9	64.0	63.7	64.0	64.3	64.2	68.3	114.5
CONFIG T=0	125	68.0	64.9	64.9	65.9	67.1	66.1	64.0	66.9	63.2	62.9	63.6	64.4	66.0	66.5	68.3	70.3	115.6
LOC PTO	160	80.9	70.8	67.6	75.8	77.6	75.0	67.4	73.9	67.7	71.0	72.9	74.7	74.0	78.4	76.0	77.1	124.4
DATE 7/31/74	200	66.5	63.8	64.6	65.8	65.0	66.0	65.4	65.8	63.7	66.7	62.0	64.1	64.7	65.2	64.9	66.0	115.1
RUN 543A	250	68.5	66.7	67.7	67.9	68.0	68.8	67.8	69.6	67.8	64.8	65.2	65.2	66.1	66.1	66.1	66.2	117.2
TAPE A983	315	78.5	72.6	75.7	81.7	82.9	82.1	75.7	79.9	75.7	76.2	79.2	78.3	77.0	72.0	72.1	73.2	128.5
BAR 28.9 HG	400	71.9	69.8	79.5	79.8	77.6	75.7	79.6	79.7	76.8	77.7	74.9	76.1	74.9	73.1	77.0	73.3	127.3
(97713. N/M2)	500	81.5	75.6	88.9	90.6	87.8	85.7	90.7	90.6	86.7	89.7	86.0	86.8	84.8	83.3	87.0	83.1	138.1
TAMB 73. DEG F	630	78.8	80.0	84.7	87.0	96.0	94.1	95.8	95.9	96.0	96.2	93.4	92.1	88.4	78.7	82.3	86.5	143.8
(296. DEG K)	800	98.0	85.7	87.7	94.6	90.7	92.0	96.6	91.7	91.8	85.1	86.1	91.2	92.0	86.4	81.2	80.3	141.5
TMET 61. DEG F	1000	92.9	92.2	87.0	88.2	90.0	95.1	95.0	94.2	91.3	92.0	91.3	89.1	86.2	87.3	87.4	82.5	141.9
(289. DEG K)	1250	85.6	92.7	91.8	89.8	93.0	90.0	90.8	88.7	87.3	83.1	86.3	85.2	81.2	83.4	82.1	77.2	138.5
MACT 10.25 GM/M3	1600	96.9	95.2	93.8	92.8	90.8	90.4	91.8	88.9	85.9	83.9	84.2	84.2	83.3	79.6	80.6	80.7	138.9
(.01025 KG/M3)	2000	103.9	97.9	92.1	91.6	88.9	92.3	86.8	90.0	85.9	83.0	84.3	83.1	86.4	82.6	79.3	77.6	138.8
NFA 9390. RPM	2500	94.9	95.7	93.7	91.6	89.7	88.1	87.6	88.0	85.8	85.1	81.0	80.9	81.0	79.4	79.3	76.1	137.8
(983. RAD/SEC)	3150	93.2	93.2	96.2	90.9	87.8	90.2	87.8	87.9	87.1	85.0	81.5	81.2	83.5	78.4	77.5	76.6	138.3
NFK 9266. RPM	4000	96.7	94.0	91.7	91.9	88.7	88.2	87.0	85.8	84.8	83.1	77.0	79.3	80.3	74.4	74.0	73.2	137.3
(970. RAD/SEC)	5000	93.3	91.4	89.1	90.0	90.1	86.6	86.0	85.1	85.4	83.1	80.4	77.3	78.5	76.7	76.2	72.5	136.3
NFD 10528. RPM	6300	93.2	90.3	89.5	86.4	86.1	85.6	82.5	82.9	80.3	78.6	77.7	76.4	80.5	76.9	76.7	72.0	134.3
(1113. RAD/SEC)	8000	90.2	89.2	87.1	84.9	84.2	81.6	83.4	81.0	79.5	77.4	74.7	74.5	75.7	70.8	72.7	68.8	133.0
NO. OF BLADES 44	10000	87.2	86.5	83.6	81.5	82.5	80.5	79.7	77.4	75.4	74.5	72.6	70.4	70.4	68.6	68.8	65.8	130.9
OVERALL MEASURED	12500	83.4	82.2	80.2	78.3	78.2	76.7	76.4	75.2	73.3	72.7	68.6	67.9	67.4	65.5	66.0	64.1	128.7
OVERALL CALCULATED	16000	79.7	79.7	76.6	75.4	74.5	73.9	73.7	72.4	72.9	74.6	65.1	65.8	66.1	66.2	64.3	64.2	126.5
PNDB	20000	75.8	74.9	72.7	72.9	70.7	71.1	70.0	70.9	73.7	75.0	64.3	66.1	66.0	68.1	66.0	66.3	129.6
		106.7	103.8	102.8	102.0	101.7	102.3	102.6	101.8	100.1	99.8	98.4	96.8	96.9	94.1	94.2	93.3	
		106.9	104.2	102.7	102.1	101.9	101.9	102.7	101.8	100.3	99.7	97.8	96.7	96.7	93.6	93.4	91.8	
		120.2	116.6	116.7	114.6	113.2	113.3	112.2	111.9	110.4	109.1	106.9	106.3	107.1	103.9	103.3	101.6	

543A

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 8 DAY 29 HR. 15:7

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL	
FREQ. (C.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT.	50	78.3	78.4	76.4	78.6	77.5	76.6	75.3	76.7	75.8	76.6	73.1	72.8	74.8	75.8	75.5	76.1	125.7
(30. M)	63	75.6	75.9	76.4	73.8	81.7	79.0	69.7	69.8	72.7	82.6	70.2	69.8	72.0	74.1	74.0	75.3	126.4
VEHICLE ATT	80	69.2	68.5	67.4	67.4	67.4	69.4	64.4	65.2	68.3	66.6	64.9	62.7	63.8	65.6	66.5	67.8	119.9
CONFIG T=0	100	68.3	65.8	66.5	65.7	62.9	63.7	63.5	63.7	65.9	62.0	63.2	63.8	63.7	64.0	64.9	67.0	114.2
LOC PTO	125	68.0	63.9	63.8	66.1	65.3	64.3	65.2	66.8	68.0	63.0	63.5	64.4	66.0	65.5	67.4	68.4	119.7
DATE 7/31/74	160	81.4	71.6	69.9	76.8	78.0	77.0	65.5	74.8	71.9	72.7	73.3	75.8	73.0	78.0	75.9	78.2	125.1
RUN 544A	200	68.4	63.8	63.8	65.8	65.8	65.1	64.7	64.5	71.7	66.0	63.0	64.1	64.9	66.0	64.9	66.3	116.3
TAPE A983	250	69.9	66.8	74.8	68.7	68.8	68.9	66.8	67.7	68.2	63.8	65.0	65.1	66.0	66.3	66.1	66.4	117.5
BAR 28.9 HG	315	78.9	73.7	76.8	80.6	82.7	82.9	74.9	80.6	78.1	74.1	79.2	76.9	77.0	73.2	74.0	73.5	128.5
(97713. N/M2)	400	74.5	69.6	79.5	79.8	75.6	75.8	80.7	81.4	78.0	78.0	76.2	76.8	75.8	72.2	76.0	73.1	127.9
TAMB 73. DEG F	500	82.8	75.8	69.6	90.9	86.6	86.8	91.5	92.7	89.1	89.6	87.9	88.0	86.2	82.0	86.6	84.1	139.0
(296. DEG K)	630	82.0	85.2	82.9	87.9	97.0	94.1	96.9	96.0	95.1	97.0	93.4	91.5	89.1	79.4	85.3	85.4	144.1
THET 61. DEG F	800	90.7	87.8	87.7	92.0	93.0	94.2	98.6	94.1	94.2	90.8	87.4	90.1	92.0	86.1	82.0	80.6	143.0
(289. DEG K)	1000	92.1	91.9	86.8	90.1	89.9	93.4	94.1	91.9	91.4	90.0	90.3	88.2	85.4	86.5	86.3	82.7	140.8
HACT 10.25 GM/M3	1250	86.9	93.0	92.7	90.8	93.9	90.0	90.0	88.0	83.8	84.0	86.6	85.2	82.2	82.2	82.3	78.2	138.5
(.01025 KG/M3)	1600	97.8	94.9	93.1	95.0	90.1	91.0	91.9	88.1	85.3	86.0	85.1	84.1	84.3	79.3	61.6	78.4	139.2
NFA 9390. RPH	2000	103.7	97.8	92.9	93.9	92.2	93.1	90.1	98.2	86.0	85.9	84.3	83.1	85.2	83.5	78.6	77.4	139.9
(9390. RAD/SEC)	2500	94.8	95.9	95.7	92.8	88.9	90.1	89.0	87.7	84.5	84.6	82.1	81.9	81.1	80.3	79.3	76.0	138.5
NFK 9266. RPM	3150	93.9	93.8	95.1	91.2	89.1	91.2	88.8	88.0	85.9	84.2	81.2	81.2	81.5	78.6	78.3	75.5	138.3
(9266. RAD/SEC)	4000	96.6	94.0	92.8	92.6	90.0	89.2	85.9	85.9	84.0	81.8	78.4	79.0	80.0	73.0	74.3	73.4	137.4
MFD 10628. RPM	5000	93.2	92.1	90.3	91.1	91.0	87.5	86.2	85.1	85.5	83.2	80.8	78.3	78.6	76.8	76.6	72.4	136.9
(10628. RAD/SEC)	6300	93.2	91.3	89.5	87.1	87.3	86.6	84.3	82.2	80.3	78.2	78.7	76.6	79.5	76.9	75.7	71.8	134.9
NO. OF BLADES 44	8000	90.3	88.8	87.4	86.3	85.3	82.3	84.2	81.3	79.5	77.5	74.8	74.5	74.3	72.5	71.4	68.5	133.5
12500	87.1	86.7	83.2	82.5	81.5	80.4	79.4	78.4	75.4	74.4	72.6	71.5	70.7	67.9	68.6	65.8	130.9	
16000	83.1	82.3	80.5	78.5	78.5	77.6	75.5	75.3	73.3	72.3	69.7	68.5	67.7	64.6	65.0	61.7	128.9	
20000	79.6	79.7	76.5	75.4	74.4	73.7	72.7	71.5	72.8	71.4	65.8	66.8	67.1	63.0	64.1	63.2	128.0	
OVERALL MEASURED	106.9	103.8	102.7	103.0	101.6	102.0	103.0	102.1	99.8	99.8	98.4	97.3	97.1	93.4	94.1	93.6	129.5	
OVERALL CALCULATED	107.0	104.3	103.0	102.8	102.8	102.3	103.6	101.8	100.3	100.3	98.0	97.2	96.7	93.2	93.5	91.6	151.0	
PNDR	120.3	116.8	116.4	115.4	113.9	114.1	112.9	112.0	110.0	109.6	107.2	106.3	106.6	104.1	103.4	101.1		

REPRODUCIBILITY OF THIS  
ORIGINAL DATA IS POOR

544A

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (C.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT.	90	78.8	79.6	76.4	78.5	77.6	76.6	75.8	76.7	75.5	76.5	73.7	73.0	74.8	75.8	75.9	75.6	125.8
( 30. M)	63	75.7	75.8	76.5	73.6	81.8	79.0	70.6	69.6	72.9	82.8	70.2	75.8	72.9	74.2	75.1	75.0	126.5
VEHICLE ATT	100	67.6	65.4	66.8	65.7	66.6	67.7	68.3	65.8	66.8	64.0	62.9	65.0	64.6	65.0	65.1	66.8	116.6
CONFID T=0	125	68.8	63.8	65.1	65.9	68.2	69.0	67.9	67.9	68.3	63.0	63.3	65.1	66.0	66.3	67.3	69.2	116.8
LOC PTD	160	80.7	72.4	70.6	77.6	77.5	76.8	70.6	75.6	72.0	71.6	72.9	75.0	73.7	78.0	76.4	78.1	125.2
DATE 7/31/74	200	66.4	64.8	65.8	66.5	66.6	70.0	67.4	67.7	67.9	65.6	61.9	63.8	64.9	66.1	65.1	65.9	116.5
HUN 545A	250	68.5	67.8	66.7	66.6	70.0	72.1	70.6	68.0	67.7	64.9	65.1	64.9	66.3	66.3	66.1	66.0	118.0
TAPE 4983	315	77.5	71.6	75.8	81.7	82.9	82.9	76.7	81.7	78.1	75.9	79.2	77.3	77.0	74.2	74.5	74.1	129.1
BAR 28.9 HG	400	72.5	70.7	78.5	78.6	75.8	75.7	80.4	80.5	79.5	77.7	76.0	76.8	75.1	71.8	76.4	72.9	127.7
(97713. N/M2)	500	81.8	74.4	89.0	89.7	84.7	85.7	90.8	90.9	89.0	88.7	87.2	87.1	84.8	81.1	87.3	83.0	138.1
TAMB 73. DEG F	630	81.0	82.9	84.1	85.8	95.2	95.1	96.8	95.8	95.2	97.1	93.1	92.1	89.1	80.7	84.5	85.2	144.0
(296. DEG K)	800	90.7	87.9	86.6	94.0	91.8	94.1	97.6	94.8	93.8	88.2	87.1	90.1	92.1	87.1	83.6	80.2	142.7
TNET 61. DEG F	1000	91.8	91.8	86.8	88.9	90.3	93.2	94.9	92.9	91.0	90.2	90.1	89.2	86.2	87.4	86.7	81.7	141.1
(289. DEG K)	1250	88.0	91.8	90.7	91.0	92.8	89.3	90.9	87.7	85.8	83.8	87.1	86.2	83.0	83.4	81.4	77.3	138.4
MACT10.25 GM/M3	1600	97.8	93.7	92.8	94.1	90.0	91.0	92.0	89.8	85.1	85.0	85.2	84.4	83.4	80.5	79.4	79.2	139.1
(.01025 KG/M3)	2000	103.8	98.2	93.9	94.9	93.0	93.4	90.1	90.2	87.0	85.0	84.6	82.2	85.4	81.4	78.8	76.5	140.3
MFA 9390. RPM	2500	93.5	95.6	96.9	94.0	89.5	90.2	88.6	87.9	86.8	85.1	83.3	81.3	81.9	79.2	79.4	76.0	139.1
( 983. RAD/SEC)	3150	92.8	94.1	95.1	91.9	89.0	90.1	88.1	88.1	87.1	85.0	82.6	82.2	83.6	77.4	77.5	75.2	138.5
NFK 9286. RPM	4000	95.9	93.7	92.7	91.8	89.1	88.2	85.3	85.8	84.0	82.8	78.0	79.3	80.3	75.1	74.2	73.1	137.0
( 970. RAD/SEC)	5000	92.9	93.4	90.0	90.0	91.4	86.0	87.1	85.1	85.4	83.2	80.5	78.4	78.3	76.5	76.5	72.7	136.9
NFD10628. RPM	6300	92.1	90.5	89.5	87.4	86.3	86.3	83.4	82.4	80.3	78.4	78.6	76.4	79.9	76.9	77.0	71.5	134.6
(1113. RAD/SEC)	8000	89.0	89.2	87.0	85.4	85.5	83.2	83.3	81.3	79.5	77.6	74.6	74.6	74.5	71.8	72.9	68.5	133.4
NO. OF BLADES 44	10000	87.4	87.3	83.3	82.3	81.3	81.4	79.2	78.3	75.3	74.6	72.8	70.8	70.3	68.7	69.0	65.9	131.0
16000	84.1	82.4	80.4	78.5	77.6	78.5	77.4	75.5	72.7	72.4	68.9	68.5	67.6	63.7	64.7	63.9	129.1	
20000	80.3	79.4	76.5	76.5	74.9	76.6	73.5	71.5	70.6	72.9	66.1	67.8	65.7	63.9	64.2	65.3	128.6	
OVERALL MEASURED	106.8	104.1	102.7	103.0	101.9	103.0	103.7	101.8	100.1	100.1	98.0	98.0	96.9	94.2	94.6	93.2	129.3	
OVERALL CALCULATED	106.7	104.3	103.1	102.9	102.2	102.3	103.4	101.9	100.4	100.0	97.9	97.5	96.8	93.5	93.7	91.2	129.3	
PNDR	120.0	116.9	116.7	115.5	113.9	113.7	112.8	112.1	110.7	109.6	107.2	106.7	107.2	103.5	103.5	100.9		

545A

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL		
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,		150,	
FREQ. (G.)	(0.17)	(0.35)	(0.92)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(		
RADIAL 100. FT. (30. M)	50	80.0	81.7	78.4	80.3	79.8	81.6	78.4	79.3	77.6	78.6	75.5	75.7	77.0	77.9	77.0	78.1	126.2
VEHICLE ATT	63	77.1	77.7	77.5	77.9	82.2	82.8	71.7	72.6	72.7	82.7	72.6	71.9	75.0	78.1	75.3	78.0	127.7
CONFIG T=0	80	73.8	74.5	72.5	73.3	73.5	81.4	70.4	70.3	70.8	71.4	70.5	67.5	69.7	71.6	71.8	72.9	123.3
LOC PTO	100	74.4	73.7	72.8	73.5	71.5	75.7	68.7	67.7	66.7	68.6	69.6	70.2	69.8	69.9	69.7	71.9	120.7
DATE 7/31/74	125	70.8	70.1	69.8	71.2	70.1	77.0	68.0	67.8	67.2	67.2	67.1	68.4	69.8	69.3	71.2	71.6	120.3
HUN 592A	160	74.5	69.6	76.6	71.8	68.0	80.8	78.4	77.5	76.7	75.0	76.3	70.9	75.0	77.3	76.2	73.2	126.3
TAPE A980	200	70.5	69.8	70.9	70.8	71.1	77.7	69.3	69.9	68.0	68.6	68.0	67.1	68.7	69.3	69.2	69.0	120.7
BAR 29.8 HG	250	76.5	76.0	75.9	75.7	75.1	74.8	73.8	72.0	70.8	70.1	69.1	69.2	70.5	72.0	71.3	71.1	122.6
(97768. N/M2)	315	81.6	77.9	81.9	82.6	81.0	83.7	76.8	84.7	84.1	81.0	81.1	73.0	80.6	80.4	80.2	77.1	131.6
TANB 72. DEG F	400	74.5	74.8	76.8	76.5	75.8	76.8	73.7	73.6	73.7	73.9	71.3	70.9	74.3	73.1	74.2	71.9	124.3
(295. DEG K)	500	80.5	76.5	78.5	82.8	84.8	90.1	85.7	82.6	83.9	87.0	81.1	78.1	81.5	80.3	84.2	81.1	134.5
THET 61. DEG F	630	92.1	84.9	88.0	94.2	91.5	96.1	91.8	96.9	91.0	93.3	90.6	90.3	90.0	88.6	83.5	80.4	142.6
(289. DEG K)	800	87.9	81.6	82.9	84.7	92.9	95.1	99.7	97.9	95.8	95.1	91.3	88.1	90.5	90.2	83.3	81.5	144.7
FACT10.17 GM/M3	1000	85.0	84.0	87.0	86.9	84.5	88.1	91.1	90.0	86.8	87.1	85.7	85.6	82.8	81.3	78.6	80.7	137.1
(.01017 KG/M3)	1250	84.7	85.8	86.8	92.0	90.3	90.9	88.9	88.6	85.8	84.1	83.4	84.2	78.7	82.5	80.1	78.2	137.3
NFA 9875. RPM	1600	90.0	87.1	89.0	94.9	92.2	88.0	90.8	90.2	85.2	84.0	81.6	85.2	83.1	80.5	85.2	78.4	138.6
(1034. RAD/SEC)	2000	91.1	89.9	90.8	88.2	87.5	87.3	87.2	88.2	83.0	83.3	80.7	79.6	82.1	80.3	80.5	77.3	135.9
NFK 9754. RPM	2500	93.7	90.7	92.6	91.7	89.1	91.8	85.8	88.6	85.8	83.7	80.4	82.9	79.1	79.3	75.2	75.2	137.0
(1021. RAD/SEC)	3150	90.2	89.3	92.2	86.9	84.3	88.1	85.7	85.8	83.2	83.0	79.5	79.3	79.1	77.4	77.5	73.3	135.7
NFD10628. RPM	4000	90.0	90.8	90.7	89.9	87.1	86.9	84.5	83.6	82.7	80.8	76.4	78.1	78.2	73.3	74.2	72.4	135.1
(1113. RAD/SEC)	5000	89.3	90.1	88.2	88.1	88.5	84.1	85.2	84.0	83.4	81.1	79.5	78.5	77.6	75.5	76.4	72.4	134.6
NO. OF BLADES 44	6300	89.2	87.6	86.4	85.1	84.4	83.7	81.1	80.0	78.5	77.3	76.6	75.7	76.4	74.6	75.7	70.6	132.2
OVERALL MEASURED	8000	86.0	86.1	84.2	83.1	83.6	80.5	81.4	80.3	77.5	76.4	73.5	76.7	74.7	71.4	73.7	69.6	131.2
OVERALL CALCULATED	10000	84.1	83.6	81.2	80.3	79.6	78.5	77.4	76.6	73.7	73.5	71.6	71.5	71.5	69.6	69.8	65.9	129.1
PNDH	12500	80.1	79.3	77.4	76.3	76.8	74.7	74.2	73.6	71.3	71.0	67.8	68.5	68.8	64.7	65.6	62.7	127.0
	16000	77.4	75.6	74.5	74.5	76.1	72.7	73.6	70.7	69.5	73.5	65.1	68.8	67.8	64.1	66.1	63.2	127.7
	20000	75.7	73.0	72.8	73.6	77.1	71.8	73.4	68.4	69.8	74.6	61.3	64.9	66.2	64.4	64.0	63.1	129.9
	OVERALL MEASURED	100.4	99.7	99.6	102.1	101.2	103.7	102.0	103.0	99.1	98.8	95.5	96.2	96.8	95.4	94.5	95.5	149.9
	OVERALL CALCULATED	101.0	99.4	100.2	102.1	100.5	102.0	102.3	102.3	99.2	99.3	96.2	95.4	95.7	94.8	92.8	90.4	
	PNDH	114.5	112.9	113.9	113.7	112.2	113.6	111.6	111.5	108.9	108.4	105.4	105.0	105.9	104.1	104.2	100.4	

MODEL SOUND PRESSURE LEVELS (59, DEG. F. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	80.5	80.2	78.4	80.7	79.8	78.6	77.5	79.9	77.8	78.0	74.9	75.1	76.8	76.9	75.9	77.0	127.7
63	78.7	79.4	78.5	78.5	82.1	80.9	73.9	75.0	72.9	82.9	73.0	71.8	77.4	79.0	75.8	79.2	128.1
RADIAL 100. FT. ( 30. M)	80	74.1	74.0	72.2	73.2	72.7	71.7	71.2	70.5	70.6	71.5	70.6	67.8	69.5	71.8	71.5	121.0
VEHICLE ATT	100	74.5	73.2	72.8	72.5	78.6	70.0	69.7	68.6	65.8	69.0	69.9	70.3	70.1	70.1	69.8	119.9
CONFIG T=0	125	71.0	69.6	68.9	70.8	69.2	67.3	68.8	67.9	66.0	67.5	67.5	68.1	70.3	69.2	71.0	118.9
LOC PTO	160	74.4	70.6	76.6	72.6	66.6	78.2	79.5	77.9	76.8	75.1	75.0	71.2	75.1	76.3	76.1	126.6
DATE 7/31/74	200	71.4	70.3	70.8	70.8	70.7	70.1	70.9	69.7	67.9	69.0	68.2	66.9	68.8	69.2	69.0	119.3
WUN 593A	250	75.9	75.8	75.6	75.8	75.6	74.2	73.9	73.0	69.8	69.9	70.4	68.8	71.3	71.2	72.0	122.5
TAPE A980	315	81.7	76.8	81.9	83.8	80.7	83.2	78.0	82.8	81.9	79.0	82.1	73.0	80.4	80.1	80.0	130.9
BAR 29.0 HG	400	74.7	73.7	75.7	77.5	74.9	77.0	74.5	73.6	73.6	74.1	72.9	71.2	73.2	73.2	73.1	124.3
(97760. N/M2)	500	81.4	76.0	77.7	82.7	85.6	92.0	88.7	84.7	83.8	87.8	83.0	81.2	82.1	81.9	84.2	136.0
TAMB 72. DEG F	600	88.9	82.8	82.7	94.8	92.9	94.3	100.0	99.8	96.1	95.2	92.2	85.0	90.4	91.1	84.0	143.1
(295. DEG K)	1000	83.0	86.3	83.9	86.8	85.9	89.5	91.9	91.4	89.0	88.1	83.3	84.2	84.6	84.3	81.5	138.1
TNET 61. DEG F	1250	87.9	87.0	86.6	91.9	89.1	91.3	85.8	88.2	86.9	83.9	85.2	84.2	82.2	82.1	81.1	137.2
(289. DEG K)	1600	90.9	86.3	89.9	92.9	88.9	90.2	89.8	88.9	87.0	87.3	82.4	84.1	85.4	80.2	84.3	138.1
HACT10.17 GM/M3	2000	92.8	90.4	91.9	90.1	88.3	87.5	86.9	88.3	82.9	83.4	81.3	80.5	82.4	90.3	81.2	136.4
(.01017 KG/M3)	2500	92.9	91.8	91.6	91.6	90.0	89.3	85.6	88.8	85.8	84.7	81.1	81.2	84.1	79.3	79.1	137.4
NFA 9875. RPM	3150	89.9	92.0	91.2	88.0	87.3	90.2	85.0	86.2	83.1	82.2	79.8	79.5	79.7	77.3	77.3	136.0
(1034. RAD/SEC)	4000	90.6	90.8	90.7	90.0	88.0	85.9	85.6	84.0	81.8	79.2	76.2	78.1	78.1	74.2	75.0	135.2
NFK 9754. RPM	5000	89.9	90.4	88.4	88.1	86.1	83.5	86.1	83.3	82.4	81.2	78.6	77.2	77.5	75.4	77.4	134.7
(1021. RAD/SEC)	6300	89.4	87.3	87.1	85.0	84.4	84.3	82.1	80.3	78.4	77.4	79.7	75.6	76.5	74.6	74.9	132.7
NFD10628. RPM	8000	86.1	86.0	84.2	84.0	83.4	80.3	82.3	80.4	78.2	77.6	75.5	77.5	73.7	72.3	73.6	131.9
(1113. RAD/SEC)	10000	84.3	83.9	81.2	80.4	80.3	78.5	77.5	76.3	74.3	73.4	81.8	71.7	71.6	69.6	69.9	130.3
NO. OF BLADES 44	12500	80.2	79.4	77.3	76.3	76.5	74.8	74.2	73.6	71.7	71.6	81.8	68.7	69.5	66.6	65.6	129.3
16000	77.6	76.7	74.3	73.8	73.5	72.8	71.5	70.6	69.8	72.7	79.3	67.6	69.1	68.3	65.1	63.2	129.1
20000	75.6	73.6	72.6	70.6	69.6	70.0	68.5	67.9	68.7	72.9	85.4	66.2	68.2	68.9	64.2	63.3	134.7
OVERALL MEASURED	101.4	99.5	100.0	101.7	99.9	102.5	101.7	103.1	99.8	99.1	98.4	95.2	97.3	96.0	95.1	92.7	
OVERALL CALCULATED	101.3	100.2	100.2	102.2	100.2	102.4	102.5	103.3	99.7	99.3	97.3	94.5	96.6	95.6	93.3	91.3	150.4
PND8	114.4	113.6	113.5	113.8	112.3	113.2	112.1	112.2	109.2	108.6	106.3	104.9	106.8	104.7	104.1	101.1	

553A

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 8 DAY 29 HR. 15:8  
MODEL SOUND PRESSURE LEVELS (59, DEG. F. 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	80.3	80.6	78.7	80.6	79.4	78.5	77.6	79.3	77.7	79.0	76.2	74.5	76.9	77.3	76.8	77.8	127.6
63	77.7	78.8	77.6	78.4	83.0	80.6	72.6	73.8	72.9	84.2	73.2	70.7	76.7	78.4	74.8	78.0	128.4
RADIAL 100. FT. ( 30. M)	80	74.0	74.3	72.2	72.3	72.3	71.4	70.1	69.3	69.4	70.8	69.5	67.4	68.9	71.0	70.5	120.4
VEHICLE ATT	100	74.6	73.7	72.6	72.4	70.8	69.6	69.6	68.6	66.6	67.7	70.2	70.1	70.3	70.2	69.8	119.9
CONFIG T=0	125	70.7	69.1	68.9	70.1	68.2	67.0	66.7	69.2	65.9	68.0	66.3	68.0	70.1	69.4	71.4	118.6
LOC PTO	160	75.7	71.5	77.9	71.8	69.1	77.7	79.4	78.4	76.8	74.8	76.1	70.1	75.2	77.2	75.0	126.1
DATE 7/31/74	200	71.4	71.0	71.6	70.9	70.9	70.0	70.5	69.5	67.9	68.7	67.2	67.8	68.9	69.1	69.1	119.3
RUN 994A	250	75.8	75.9	75.6	75.6	74.0	73.8	73.5	72.7	70.0	69.8	68.4	69.3	70.0	71.4	71.1	122.1
TAPE A980	315	82.4	79.7	81.9	82.6	81.0	82.1	78.8	78.6	79.8	75.8	81.5	73.8	78.1	80.5	79.2	129.7
BAR 29.0 HG	400	74.4	73.6	75.5	75.7	74.8	76.7	74.8	72.8	71.9	72.9	72.2	71.0	74.1	73.3	73.9	123.9
(97740. N/M2)	500	80.3	75.6	78.7	82.4	85.6	91.7	88.8	84.6	83.7	87.8	85.1	78.9	82.9	81.4	85.9	136.2
TAMB 72. DEG F	630	91.0	80.0	90.0	95.2	91.1	97.3	90.8	97.6	92.3	93.1	91.5	90.0	94.7	89.5	87.2	143.5
(295. DEG K)	800	88.5	87.2	84.6	93.9	94.8	95.1	98.6	99.8	94.7	93.9	93.4	83.2	88.5	88.5	81.2	144.7
THET 61. DEG F	1000	82.6	88.3	84.8	85.8	88.0	93.0	91.1	89.9	87.1	87.1	83.4	83.4	82.3	80.8	79.2	137.9
(289. DEG K)	1250	66.3	87.1	89.0	89.6	90.2	91.8	87.0	89.9	87.7	84.9	87.3	83.2	82.2	82.3	80.1	137.8
FACT 10.17 GM/M3	1600	91.6	89.0	89.1	92.8	86.1	91.2	87.8	86.7	85.9	84.3	80.3	83.0	87.4	80.4	83.3	137.4
(0.017 KG/M3)	2000	93.6	91.0	91.9	90.9	90.0	88.0	87.1	86.9	84.1	82.2	80.4	79.3	82.3	78.7	90.3	136.6
NFA 9875. RPM	2500	93.4	93.0	90.7	91.6	88.6	88.8	86.3	87.7	85.6	86.2	82.4	81.1	84.1	79.0	79.5	137.3
(1034. RAD/SEC)	3150	90.0	91.2	91.8	87.9	88.0	90.4	86.8	84.9	82.9	82.1	78.4	80.0	79.7	76.5	78.3	136.2
NFK 9754. RPM	4000	90.6	89.9	90.8	90.7	88.9	87.1	85.6	84.6	81.9	80.2	76.2	78.0	79.5	73.4	75.2	135.7
(1021. RAD/SEC)	5000	89.9	90.2	88.3	89.0	89.2	85.2	85.2	83.2	83.3	81.3	79.8	77.0	78.7	75.8	77.3	135.2
NFD 10028. RPM	6300	89.3	88.3	87.5	85.0	85.3	84.1	82.1	80.0	78.5	77.4	76.7	75.4	76.5	75.5	75.7	132.7
(1113. RAD/SEC)	8000	85.9	87.2	85.2	84.0	83.4	81.2	82.1	80.0	79.1	77.4	73.7	77.1	75.6	72.6	73.4	132.1
NO. OF BLADES 44	10000	84.0	83.4	81.4	80.1	80.4	78.6	77.4	76.2	75.3	73.4	71.7	71.5	71.7	69.7	69.7	129.3
12500	80.0	79.4	78.2	77.2	77.3	75.6	75.2	74.0	73.4	71.3	67.9	67.5	68.6	64.9	65.5	62.7	127.6
16000	77.7	76.7	74.4	74.8	75.9	72.7	73.6	72.7	73.5	71.6	64.8	66.8	67.0	65.0	66.1	63.2	128.0
20000	75.4	73.6	72.9	73.6	76.9	71.0	73.5	71.5	75.9	71.7	61.3	64.9	63.9	63.2	64.2	63.1	130.4
OVERALL MEASURED	101.6	100.0	100.0	102.0	100.9	101.9	102.0	102.9	99.0	98.8	97.2	95.0	98.3	95.5	94.5	94.6	
OVERALL CALCULATED	101.4	100.5	100.4	102.0	100.8	102.9	101.0	103.2	99.1	99.0	97.5	94.1	97.6	94.5	93.3	91.5	
PNDR	114.6	113.9	113.9	113.8	112.5	113.6	111.5	111.9	108.8	108.7	106.5	104.5	107.3	103.9	103.8	101.1	150.2

554A

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
		(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	69.6	72.6	69.8	71.9	71.9	71.4	69.8	69.1	69.9	70.0	68.0	68.1	67.1	69.2	68.8	67.0	119.3
	63	71.8	67.0	76.2	71.2	79.3	76.1	68.8	63.2	75.8	78.0	67.1	64.6	62.5	67.2	65.3	61.2	123.1
RADIAL 100: FT. (30: M)	80	60.5	62.7	62.0	62.8	61.7	62.2	62.5	61.1	61.7	62.8	62.9	60.2	61.1	62.0	60.6	53.8	111.6
VEHICLE CONFIG	100	66.0	69.9	69.0	65.4	65.2	64.3	66.0	66.0	63.9	67.1	67.2	67.3	67.0	67.3	66.3	66.0	116.2
LOC PTO	125	64.0	67.2	64.2	65.4	64.5	64.4	64.3	63.3	62.5	61.5	61.3	61.6	63.7	61.4	63.5	58.5	113.1
DATE 8/5/744	160	61.0	62.7	63.9	63.0	62.9	62.2	62.7	61.0	59.7	59.8	60.3	60.4	61.0	59.3	60.0	57.9	111.1
RUN 564	200	66.8	68.8	68.0	67.0	67.0	66.2	64.8	64.0	62.0	64.7	61.1	59.1	63.0	61.2	60.2	59.2	114.1
TAPS	250	72.6	74.6	73.9	72.9	72.9	71.3	70.7	68.2	67.1	65.8	62.3	62.3	62.3	62.1	64.9	62.7	118.6
BAR 28.9 MG	315	74.2	76.9	76.4	76.3	76.1	74.6	72.1	71.5	70.4	69.2	67.4	64.7	65.9	63.7	65.4	65.4	121.7
(97756: N/M2)	400	72.5	74.4	74.8	73.8	73.7	73.1	71.6	70.0	68.9	67.7	66.8	65.2	65.1	64.0	65.3	63.8	120.2
TAMP 76: DEG F	500	71.6	74.7	73.9	72.8	73.0	71.8	69.6	68.8	67.8	66.9	65.0	62.9	63.1	65.0	62.9	65.9	119.1
(298: DEG K)	630	76.8	80.2	79.3	77.9	78.5	75.2	75.0	73.4	72.3	70.0	69.2	67.3	67.4	66.4	66.2	68.9	123.9
THET 63: DEG F	800	77.9	82.0	81.0	79.9	78.3	78.3	76.6	75.0	71.9	71.9	71.3	69.4	70.0	67.4	68.1	70.8	129.5
(290: DEG K)	1000	81.1	85.0	85.9	83.9	81.5	80.3	79.0	76.3	74.0	72.3	72.3	70.2	71.0	70.1	68.6	71.1	128.4
HACT 10.53 GM/MS	1250	81.8	84.0	83.2	83.9	83.3	82.4	81.8	78.4	76.2	74.8	73.3	71.2	71.1	71.2	69.2	71.2	129.1
(.01053 KG/MS)	1600	79.8	82.8	83.1	83.8	82.1	83.3	80.7	79.3	76.1	72.8	72.0	70.3	71.2	70.0	68.1	71.0	129.1
NFA 6348: RPM	2000	81.2	84.5	85.1	85.5	85.4	85.6	83.1	81.5	78.4	75.2	74.5	72.7	73.4	71.6	71.6	74.4	131.5
(665: RAD/SEC)	2500	83.8	87.9	87.7	87.0	86.1	86.0	83.5	81.9	80.2	77.0	75.0	72.1	72.9	71.1	70.2	73.6	132.6
NFK 6248: RPM	3150	91.0	93.0	93.2	89.5	89.5	89.4	88.9	87.3	83.4	80.7	76.5	74.7	77.6	73.5	73.8	75.2	136.9
(654: RAD/SEC)	4000	91.8	96.0	94.3	92.3	93.3	91.3	89.8	88.4	86.4	81.3	79.2	77.4	78.2	74.4	74.5	78.2	139.3
NFD 10628: RPM	5000	94.4	96.1	92.5	96.4	95.5	94.5	92.3	88.8	89.3	85.6	81.7	79.0	77.7	77.8	77.5	77.4	141.5
(1113: RAD/SEC)	6300	87.3	93.6	90.7	88.5	88.8	88.0	86.6	83.8	80.6	76.2	74.6	71.8	72.7	68.8	68.8	71.0	136.0
NO. OF BLADES	8000	88.5	91.5	89.6	88.5	89.1	88.1	86.3	82.9	81.0	77.1	73.8	71.7	71.6	68.8	69.0	70.6	138.2
	10000	86.8	89.7	87.7	86.7	87.0	84.8	83.6	81.1	78.9	74.8	71.8	69.1	69.0	65.9	66.3	67.7	134.7
	12000	82.5	85.5	83.4	82.9	82.0	82.0	79.5	76.8	74.7	71.6	66.6	66.0	65.5	64.1	63.7	66.5	131.9
	16000	78.9	82.2	78.2	76.7	76.5	76.2	75.8	73.3	74.3	70.4	64.3	67.6	67.2	64.4	67.5	69.1	130.7
OVERALL MEASURED	20000	73.2	78.1	74.1	73.5	73.4	72.4	71.1	68.5	74.2	70.3	62.5	68.4	68.4	64.6	68.3	69.9	129.7
OVERALL CALCULATED		98.5	101.7	100.1	100.1	100.0	98.4	96.9	95.0	94.1	90.4	88.3	86.4	87.2	85.1	85.2	86.1	
PWDB		99.3	102.4	100.7	100.4	100.2	99.2	97.5	95.1	93.7	90.2	87.2	85.2	85.6	83.8	83.6	85.2	146.9
		113.0	115.9	114.5	114.6	114.2	113.3	111.3	108.9	107.4	104.5	101.4	99.1	99.5	97.9	97.6	99.1	

MODEL SOUND PRESSURE LEVELS (DB, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	70.5	73.6	70.8	72.9	72.1	71.0	70.5	70.2	67.8	71.2	69.9	68.1	68.0	70.2	69.0	56.9	119.9
63	72.0	68.0	75.9	71.4	79.3	76.1	68.7	63.2	77.6	78.6	68.2	65.3	63.2	67.4	65.4	58.4	123.7
80	60.3	63.5	61.9	64.8	61.8	62.9	61.4	60.9	59.5	62.8	64.7	60.8	60.0	62.0	60.9	54.8	111.8
100	63.6	69.7	66.9	67.9	67.1	63.4	60.6	60.0	63.1	64.0	65.3	62.2	66.1	65.2	66.0	57.3	115.4
125	64.9	67.2	65.4	65.3	64.6	63.7	63.9	64.3	61.1	62.6	61.8	61.5	64.3	61.7	64.8	58.7	113.3
160	60.8	62.0	63.0	63.2	63.0	62.4	62.6	61.0	58.5	60.0	60.1	60.4	62.1	60.1	59.9	58.2	111.2
200	66.5	68.8	67.8	67.0	67.1	66.0	65.5	63.0	61.0	62.3	61.1	99.3	58.9	62.5	60.1	60.1	113.7
DATE 8/5/744	250	73.0	75.7	75.0	73.9	74.1	73.0	72.5	69.8	67.6	66.0	64.1	63.4	62.3	64.1	65.4	120.0
RUN 565	315	74.1	77.2	77.0	77.5	77.6	75.5	74.1	72.5	70.3	70.5	68.8	65.7	65.4	65.4	66.3	122.7
TAPE 565	400	72.8	74.4	74.5	75.0	74.0	72.9	71.5	69.8	68.8	67.0	67.0	65.3	65.8	63.2	63.8	120.2
BAR 28.9 HG	500	72.8	75.7	75.6	74.9	73.7	72.8	69.3	68.0	66.8	69.8	66.0	64.8	64.7	65.3	64.8	119.9
(97756: N/M2)	630	76.9	79.1	78.2	78.4	79.4	77.2	76.0	74.2	73.2	72.2	70.4	68.3	69.4	67.5	67.3	124.7
TAMP 76: DEG F	800	78.0	8.0	8.1	8.1	79.4	78.5	78.9	75.1	73.1	73.3	70.1	70.2	68.4	68.0	72.0	126.4
(298: DEG K)	1000	81.1	84.7	84.1	83.2	82.2	81.4	80.9	78.3	75.8	74.0	73.1	72.2	73.3	71.4	70.1	129.4
TWET 63: DEG F	1250	81.1	83.8	84.1	84.3	83.3	83.4	81.9	79.4	76.1	73.9	73.4	73.2	72.1	70.1	72.0	129.8
(290: DEG K)	1500	80.2	82.6	82.8	83.2	81.9	82.2	80.8	78.2	75.7	73.2	72.1	71.3	71.1	69.3	68.1	128.7
HACT 0.53 GM/MS	2000	82.3	85.0	85.3	85.2	85.5	85.7	84.2	81.9	78.9	76.2	74.2	72.6	73.2	70.6	70.4	131.7
(.0153 KG/MS)	2500	85.1	88.6	86.8	87.1	86.0	86.2	83.5	82.1	78.9	77.1	74.7	72.7	71.1	70.9	72.9	132.6
HFA 64981 RPM	3150	89.6	92.0	91.1	89.6	88.5	87.4	88.2	86.6	82.1	79.3	75.1	73.3	76.2	72.6	72.3	135.8
(680: RAD/SEC)	4000	89.9	94.8	93.1	91.0	92.3	90.2	88.7	87.4	84.0	80.2	76.9	76.4	77.0	72.1	73.1	138.1
NFK 6394 RPM	5000	93.6	95.1	92.4	94.4	93.4	93.5	90.2	87.5	86.3	83.7	80.4	78.5	76.3	77.7	77.4	140.5
(689: RAD/SEC)	6300	86.4	92.3	89.5	86.9	87.6	85.7	84.3	83.0	79.4	74.6	73.5	71.0	71.9	68.0	67.8	134.4
NFD 628 RPM	8000	87.8	89.6	87.7	85.9	87.6	86.1	84.3	81.8	78.9	75.7	71.5	69.1	69.6	66.8	66.7	134.2
(113: RAD/SEC)	10000	84.9	88.7	84.9	84.7	84.7	83.2	82.6	79.1	76.8	73.0	69.7	67.4	67.0	64.9	65.2	132.6
NO. OF BLADES 44	12500	81.6	83.5	81.6	81.7	79.8	79.1	77.4	74.8	73.0	69.8	65.4	63.5	63.6	63.1	62.7	129.7
20000	15000	79.2	81.1	77.1	78.9	76.3	75.4	73.9	72.3	75.5	69.1	65.0	66.4	65.3	67.2	67.1	129.3
OVERALL MEASURED	20000	72.2	76.9	72.3	71.4	71.3	71.3	69.9	67.3	76.0	69.3	64.4	65.4	66.3	68.6	65.2	129.3
OVERALL CALCULATED	20000	98.2	100.7	98.6	98.3	98.9	98.0	95.9	94.3	92.1	90.0	88.2	86.2	87.0	86.3	86.2	85.2
PNDB	20000	98.3	101.4	99.6	99.2	99.6	98.2	96.4	94.3	92.6	89.4	86.4	84.8	85.0	83.7	83.3	84.6
	20000	112.3	119.0	113.6	113.4	113.9	112.4	110.1	108.1	106.9	103.3	100.5	98.7	98.8	97.6	98.5	145.9



	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	70.0	72.8	69.8	71.1	71.9	71.0	69.7	69.9	67.8	70.9	69.0	67.2	69.0	70.2	69.0	57.9	119.6
	63	72.0	68.0	75.9	71.1	79.3	78.3	68.7	63.1	61.8	78.5	67.4	66.3	65.4	68.5	66.0	60.0	123.9
RADIAL 100: FT. (30: M)	80	61.9	64.4	61.9	63.8	62.9	63.0	61.6	61.8	60.6	64.0	63.8	64.2	64.7	64.2	62.7	57.9	112.9
VEHICLE AIT	100	62.7	64.7	64.0	64.2	65.0	63.1	64.8	66.0	65.3	64.0	65.0	64.2	67.2	66.2	66.0	60.1	114.9
CONFIG APP	125	64.1	67.0	64.2	64.5	64.3	63.6	63.9	63.3	61.3	62.3	61.3	61.4	64.6	61.6	64.5	57.4	113.0
LOC PTD	160	60.9	61.9	63.1	62.9	63.1	61.4	62.8	61.0	59.3	60.2	61.0	60.1	61.2	60.0	59.0	60.0	111.1
DATE 8/5/744	200	66.8	68.8	67.9	66.9	67.1	66.0	65.6	63.9	61.8	63.3	61.0	60.0	59.9	62.1	61.9	61.2	114.0
RUN 566	250	72.6	74.8	74.1	74.1	73.2	72.3	72.0	69.0	67.1	65.1	63.4	62.4	62.2	64.3	64.9	64.4	119.4
TAPE AY53	315	74.0	77.0	76.4	76.4	76.5	74.4	73.0	71.3	70.4	70.4	67.8	65.5	65.5	64.4	64.3	65.5	121.9
BAR 28.9 HG (97736: N/M2)	400	72.5	74.6	73.8	74.0	73.9	72.1	70.6	69.7	67.6	67.0	66.0	64.3	64.1	62.9	62.8	63.8	119.6
TAMP 76: DEG F (298: DEG K)	500	72.6	75.5	74.5	73.9	72.9	72.1	69.4	68.8	68.9	65.0	64.7	63.9	63.8	63.9	64.8	66.9	119.5
THET 62: DEG F (290: DEG K)	650	78.1	80.1	79.3	78.3	76.5	74.7	72.4	72.0	70.4	69.1	67.3	68.3	67.4	68.2	70.3		124.0
HACT 10.15 GM/MS (.01012 KG/MS)	800	78.8	82.0	82.0	81.2	79.4	78.4	77.8	75.2	72.1	72.1	71.2	69.3	70.0	67.4	70.0	72.1	126.2
NFA 6444: RPM (675: RAD/SEC)	1000	82.8	86.7	86.0	84.3	81.0	81.3	78.9	76.3	74.2	73.3	73.1	71.1	72.3	70.4	69.0	71.2	128.8
NFK 674: RPM (664: RAD/SEC)	1250	81.1	83.7	84.0	83.1	82.4	82.2	81.5	79.3	76.2	75.3	72.9	72.2	73.0	71.4	70.9	72.2	129.2
NFD 10428: RPM (1113: RAD/SEC)	1500	79.8	81.9	82.8	84.0	81.3	83.2	81.6	79.2	75.6	73.8	71.9	70.0	71.2	69.3	69.3	71.8	129.1
NO. OF BLADES 44	2000	82.1	84.0	84.2	84.3	84.3	85.3	83.2	81.4	78.3	78.2	74.3	72.3	73.2	70.3	71.1	74.4	131.1
	2500	84.5	87.8	86.6	87.0	85.8	86.0	84.4	82.1	79.0	77.0	73.7	71.1	72.9	70.9	70.6	72.9	132.5
	3150	91.3	93.3	92.1	91.3	89.3	88.7	89.1	87.3	82.4	79.7	76.5	74.4	77.6	72.3	72.5	75.2	136.7
	4000	90.6	94.8	93.2	91.2	92.4	91.9	89.8	88.4	85.9	81.2	78.3	76.4	78.4	73.3	73.9	76.3	138.7
	5000	94.1	95.3	92.6	95.7	95.4	94.5	92.0	89.0	88.7	84.7	81.7	79.8	77.7	77.5	76.6	77.3	141.3
	6300	87.7	92.4	90.5	87.2	87.7	87.1	85.2	83.6	79.7	75.7	73.6	72.0	72.9	68.7	68.6	70.9	139.1
	8000	86.7	90.4	88.8	88.0	88.0	87.8	86.4	82.7	81.0	75.9	73.1	70.7	70.7	68.1	68.9	71.7	135.6
	10000	85.7	89.1	87.0	86.1	85.9	85.3	83.7	81.0	77.9	74.1	70.1	69.0	68.9	66.2	65.9	68.9	134.3
	12500	81.5	85.7	82.5	82.0	81.0	81.3	79.6	76.7	75.0	70.9	66.7	64.9	65.0	63.9	63.9	66.7	131.4
	16000	79.1	82.1	79.2	78.5	78.7	77.8	76.0	73.5	75.2	71.6	63.4	66.6	66.7	65.3	65.6	69.4	130.7
	20000	73.3	78.2	73.7	73.5	73.8	72.7	70.5	68.5	74.4	70.8	63.6	66.8	66.9	66.7	66.7	69.4	129.8
OVERALL MEASURED	97.9	101.6	100.0	99.2	99.0	98.3	96.6	95.0	93.2	90.1	88.0	87.4	87.2	85.4	86.0	86.2		
OVERALL CALCULATED	99.1	101.7	100.1	99.9	99.7	99.1	97.4	95.1	93.1	89.9	86.9	85.2	85.8	83.6	83.5	85.4		
PNOC	112.9	115.1	113.8	114.2	113.9	113.2	111.2	108.9	107.2	105.0	101.2	99.4	99.7	97.5	97.2	99.4		146.6

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 21 HR. 13.9

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	150.	PWL	
FREQ:	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.62)	( )	
	50	69.9	73.7	70.0	71.7	72.1	70.9	71.7	71.0	68.8	71.1	69.2	68.3	67.2	70.2	56.8	119.7
	63	72.8	68.1	75.9	71.2	79.2	76.1	70.0	65.2	78.0	78.4	67.0	65.6	62.5	68.4	58.2	123.7
RADIAL 100: FT:	80	61.8	63.7	61.9	64.0	62.9	64.1	63.4	63.7	61.9	65.0	63.7	62.2	62.8	65.1	55.6	113.3
( 30: M)	100	63.0	65.0	63.9	65.2	66.1	63.1	66.7	67.2	65.0	65.2	65.0	64.6	67.0	67.1	57.3	115.2
VEHICLE AIT	125	64.4	67.2	64.5	65.3	64.3	64.4	65.2	64.6	62.5	63.3	61.7	61.6	63.8	62.8	57.4	113.3
CONFIG APP	150	61.0	62.0	63.1	62.2	64.0	62.1	64.1	61.2	60.1	61.3	60.3	60.3	61.4	60.6	58.0	111.3
LOG PTD	200	65.8	68.7	67.8	65.9	67.1	66.2	64.6	63.2	62.1	63.2	60.9	59.1	59.4	62.1	60.2	113.5
DATE 8/5/744	250	72.7	74.8	73.8	73.1	73.2	72.3	70.8	68.9	66.9	64.3	63.1	62.1	62.3	63.1	62.9	118.8
RUN 566A	315	74.3	77.2	77.1	77.5	78.2	74.6	72.9	72.2	70.1	70.4	67.4	65.9	64.5	63.7	65.6	122.1
TAPP AY53	300	72.8	74.6	74.6	73.9	73.9	72.9	71.6	69.7	68.7	67.0	66.8	65.4	65.2	62.9	63.9	120.0
BAR 28.9 HG	900	72.8	75.7	74.5	72.9	72.0	70.8	69.4	66.8	66.8	65.0	64.8	64.0	63.8	63.0	66.2	118.6
(97738: N/M2)	630	78.1	79.9	78.3	79.2	79.3	76.4	74.8	73.4	72.0	70.4	69.3	67.4	68.0	67.3	69.2	124.2
TAMR 76: DEG F	800	79.1	81.9	82.2	81.4	79.2	78.4	77.8	75.0	72.9	72.0	71.9	70.3	70.3	67.4	71.2	126.2
(298: DEG K)	1000	82.4	85.7	86.2	85.0	81.5	81.1	79.8	77.3	75.1	73.0	72.2	70.3	72.1	69.4	71.0	129.0
TWET 6: DEG F	50	80.9	83.7	83.9	84.2	82.1	82.4	81.1	78.2	76.0	74.2	73.2	72.3	73.3	71.1	72.2	129.1
(290: DEG K)	1500	79.8	81.9	82.1	83.0	82.2	83.1	81.7	79.1	75.0	73.2	71.9	70.5	71.2	70.0	71.1	128.9
HACT10.12 GH/M3	2000	82.1	85.1	85.2	84.3	83.6	85.6	83.1	81.6	78.6	76.2	74.3	72.6	73.2	70.5	74.3	131.2
(.01015: KG/M3)	2500	84.7	87.7	86.9	87.0	85.1	86.2	83.5	81.9	79.0	77.0	74.0	72.2	72.9	70.1	72.9	132.3
NFA 6444: RPM	3150	90.0	92.9	92.2	90.3	89.3	88.6	89.2	86.6	82.3	79.3	76.2	74.5	77.6	72.5	74.3	136.6
(.675: RAU/SEC)	4000	90.8	94.7	93.2	91.2	92.4	91.0	88.9	87.1	85.3	80.5	78.1	77.3	78.2	73.0	78.0	138.4
NFK 634: RPM	5000	94.4	95.1	92.3	95.4	95.7	94.5	91.0	87.4	89.5	84.7	81.6	78.8	77.8	77.7	76.6	141.1
(.664: RAU/SEC)	6000	87.7	92.5	90.5	87.9	87.7	86.8	84.8	82.8	80.7	75.9	72.9	71.8	72.9	68.0	69.9	135.0
NFD10628: RPM	8000	88.6	93.7	88.7	86.8	87.8	87.0	84.4	80.6	79.8	77.0	72.6	70.2	70.9	67.9	69.7	134.9
(1113: RAU/SEC)	10000	85.9	89.6	86.8	86.1	85.9	85.0	83.5	80.0	77.6	74.0	70.9	69.1	69.0	65.9	68.3	134.2
NO. OF BLAUES 44	12500	91.7	84.5	82.5	82.7	81.0	80.9	78.6	75.6	75.5	70.6	66.8	65.2	64.7	64.2	65.7	131.1
	16000	78.0	82.1	78.4	78.2	77.6	77.6	75.1	72.3	77.3	69.6	64.7	66.6	66.4	67.6	69.5	130.5
	20000	72.6	79.5	72.6	73.5	72.8	72.8	70.4	68.8	77.7	69.9	65.6	67.9	67.7	67.8	70.6	130.7
OVERALL MEASURED		98.1	101.0	98.8	98.9	99.2	98.1	96.9	94.0	93.0	90.2	87.0	86.5	87.2	85.3	85.9	
OVERALL CALCULATED		99.0	101.7	100.1	99.8	99.8	99.0	96.8	94.2	93.5	89.7	86.8	85.1	85.7	83.6	84.9	146.4
PWDB		113.0	115.1	113.8	114.0	114.0	113.1	110.6	107.9	107.7	103.9	101.2	99.0	99.6	97.6	98.9	

566A

	FREQ	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
	50	69.6	73.6	69.8	72.0	72.0	71.1	69.4	69.2	67.9	71.0	68.7	68.0	67.2	57.2		118.0
	63	73.0	68.8	76.1	71.4	79.4	76.4	68.8	63.1	78.0	78.3	67.4	65.4	62.6	59.1		123.0
RADIAL 100: FT.	83	61.2	64.7	61.7	63.8	62.9	61.9	62.5	61.1	59.8	62.2	62.8	60.8	60.0	59.8		111.0
(30: M)	100	64.7	66.7	66.8	68.0	67.2	64.5	65.7	65.1	62.5	63.3	65.9	64.2	65.0	58.3		114.0
VEHICLE ALT	125	65.0	67.9	66.1	67.2	66.5	64.8	66.0	64.6	62.4	62.6	63.5	63.7	65.5	59.6		114.0
CONFIG APP	160	61.7	62.7	63.9	63.2	64.3	62.1	62.9	61.1	59.9	60.4	60.9	61.1	62.2	60.0		111.0
LOC PTD	200	67.8	69.8	68.7	67.0	67.4	66.4	65.6	63.9	62.0	62.2	62.9	60.0	59.9	60.9		113.0
DATE 8/5/74	250	74.0	76.6	74.7	73.8	74.2	72.2	71.6	68.9	68.0	66.0	64.2	63.4	63.2	64.0		119.0
RUN 567	315	74.3	77.2	77.1	77.5	77.5	75.4	73.9	72.2	70.4	69.6	67.4	64.7	65.4	66.4		122.0
TAPE AY53	400	71.7	73.4	73.8	73.9	73.9	72.1	70.4	69.0	66.9	66.9	65.9	65.0	65.0	64.9		119.0
BAR 28.2 HG	500	72.7	75.7	74.5	73.9	72.8	71.0	70.6	68.7	67.7	66.8	64.9	64.1	65.0	67.0		119.0
(97736: N/M2)	630	76.8	79.9	79.3	79.3	79.2	76.4	76.0	73.0	73.6	71.4	70.1	67.2	69.4	69.3		124.0
TAMB 76: DEG F	800	78.0	79.8	80.0	80.3	78.4	77.4	76.9	74.2	72.2	72.3	70.9	69.4	71.2	71.1		125.0
(298: DEG K)	1000	78.8	81.0	81.9	81.4	80.7	81.4	80.1	77.3	76.2	73.3	73.2	72.4	71.3	72.8		127.0
THET 62: DEG F	1250	80.9	82.7	82.1	82.4	82.2	81.4	80.9	78.2	75.0	73.9	72.2	71.5	72.3	72.1		128.0
(298: DEG K)	1600	80.0	81.7	81.1	82.1	80.1	80.5	78.7	76.8	74.8	72.2	71.1	71.1	70.2	70.4		127.0
HACT 10.15 GM/MS	2000	81.2	84.3	84.1	83.5	82.4	82.8	81.0	78.4	76.4	73.2	72.4	70.5	71.4	73.6		129.0
(.01015: KG/MS)	2500	82.5	86.5	85.9	85.0	83.8	84.2	80.7	78.8	76.7	73.9	71.9	70.2	71.1	71.9		130.0
NFA 667: RPM	3150	87.8	89.3	89.2	86.5	86.3	85.4	85.2	83.3	79.4	76.2	72.4	71.5	73.3	71.6		133.0
(698: RAD/SEC)	4000	87.9	92.8	90.8	88.3	88.5	87.2	86.0	84.3	81.3	76.3	74.1	73.2	74.0	74.4		135.0
NFK 6563: RPM	5000	91.5	92.0	89.3	90.5	91.5	88.8	87.0	83.3	84.4	80.4	77.6	74.6	73.6	73.5		136.6
(687: RAD/SEC)	6300	84.7	90.6	87.8	83.9	85.0	82.9	81.7	80.0	76.5	72.8	70.8	68.8	70.6	67.9		132.0
NFD 10628: RPM	8000	85.6	87.7	84.8	83.2	85.1	82.8	81.4	78.9	75.5	72.9	68.7	66.2	67.7	66.2		131.4
(1113: RAD/SEC)	10000	82.6	86.7	83.1	81.9	82.2	80.2	78.6	75.9	74.0	69.9	66.7	66.2	66.1	65.3		130.1
NO. OF BLADES 44	12500	78.5	81.6	78.8	77.9	77.0	76.0	74.2	71.9	72.8	67.7	63.7	63.2	62.9	66.1		127.0
	16000	75.0	80.3	75.1	74.5	73.5	72.6	71.9	69.3	76.1	68.5	64.2	66.5	66.5	69.6		127.0
	20000	70.5	75.4	70.5	69.7	69.9	67.8	68.4	66.6	77.7	68.6	65.5	68.0	67.5	71.9		129.3
OVERALL MEASURED		96.0	98.9	97.2	96.2	96.4	95.1	93.9	91.2	89.9	88.1	85.9	85.1	85.3	84.3		
OVERALL CALCULATED		96.4	99.2	97.5	96.4	96.6	95.1	93.7	91.3	90.2	87.1	84.4	83.1	83.5	83.7		143.2
PMDR		110.5	113.2	111.6	110.4	110.9	109.0	107.5	105.3	103.9	100.7	98.3	96.2	96.7	96.7		

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 21 HR. 14.2

MODEL SOUND PRESSURE LEVELS (94, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
RADIAL 100: FT.	50	70.6	73.6	75.0	72.1	73.2	71.2	70.4	70.3	70.7	72.1	72.0	70.1	68.2	71.1	69.8	57.3
(30: M)	63	72.8	68.8	76.2	71.2	79.4	76.1	68.9	64.6	77.9	78.3	71.2	69.2	64.5	70.4	66.3	58.1
VEHICLE AIT	80	61.5	64.6	61.9	62.8	62.7	62.1	62.6	62.7	63.0	66.0	69.0	65.0	61.9	66.9	63.0	54.9
CONFIG APP	100	65.8	66.7	63.9	66.2	67.4	65.1	65.9	64.3	65.1	67.2	69.1	65.5	66.0	67.2	66.3	58.3
LOC PTO	125	67.3	69.2	65.4	66.6	66.5	66.6	67.0	64.7	66.3	67.2	67.5	64.5	66.5	66.6	66.4	58.3
DATE 8/5/744	160	61.7	61.7	63.1	62.2	63.3	62.1	62.9	62.4	61.1	63.1	64.3	63.1	62.2	62.2	60.4	57.9
RUM 544	200	67.8	71.7	70.8	68.0	68.8	68.1	66.7	69.9	63.0	64.1	63.9	61.2	59.9	63.0	61.3	60.3
TAPE AY53	250	74.9	78.1	76.6	76.8	75.9	74.1	73.6	72.2	69.7	68.1	66.1	66.1	64.2	63.4	65.3	65.0
BAR 28.4 MG	300	71.6	73.5	73.7	73.7	73.7	72.1	70.7	69.1	67.6	66.9	66.7	65.2	66.0	64.2	64.8	64.0
(97736: N/M2)	350	71.7	74.6	74.5	72.7	72.9	70.8	70.4	68.7	67.6	64.8	66.0	63.9	64.8	64.9	64.8	65.9
TANG 76: DEG F	400	76.4	79.9	79.5	79.4	79.4	76.2	75.7	74.1	72.9	72.3	71.4	68.5	70.4	68.5	68.4	70.1
(298: DEG K)	450	74.8	79.0	78.0	77.9	77.2	77.1	75.9	73.9	71.1	72.0	70.2	69.4	69.3	67.3	68.2	72.0
THET 62: DEG F	500	79.0	80.0	81.2	79.3	79.3	80.2	78.8	76.2	73.8	73.0	72.3	71.4	70.3	69.2	69.3	71.0
(298: DEG K)	550	80.9	81.8	82.9	82.1	80.4	80.3	78.9	78.6	75.0	74.0	73.3	72.5	72.3	71.4	69.5	71.9
HACT 10.12 G4/M3	600	78.9	80.7	80.3	80.1	79.1	79.4	78.6	76.0	73.2	71.2	71.0	69.3	66.2	69.1	68.1	70.0
(.01019: KG/M3)	650	81.2	84.2	83.4	82.5	80.5	80.8	79.2	78.4	75.1	73.2	71.3	70.7	71.3	68.6	69.4	72.4
NFA 678: RPM	700	81.8	86.5	84.6	83.0	81.2	81.9	78.5	78.0	74.9	72.1	70.8	69.8	70.9	69.1	68.8	70.7
(710: RAD/SEC)	750	85.3	88.8	86.5	84.3	82.4	81.5	81.0	81.4	76.4	73.2	71.3	69.6	71.5	68.4	68.5	69.2
NFK 667: RPM	800	85.8	90.8	88.3	84.1	84.2	82.5	81.0	80.9	78.1	73.3	71.9	72.2	72.2	69.2	69.4	72.2
(699: RAD/SEC)	850	88.2	89.1	85.4	87.4	87.9	84.6	83.3	79.9	81.5	77.6	75.6	74.6	73.4	74.8	73.5	71.3
NFD 10628: RPM	900	82.6	87.8	84.9	81.0	80.9	79.2	78.4	76.8	73.9	70.7	68.8	67.8	68.7	65.0	66.9	68.9
(1113: RAD/SEC)	950	82.5	84.6	81.7	80.0	80.2	78.9	77.2	73.8	72.6	70.0	65.9	65.9	65.9	63.1	65.7	64.9
NO. OF BLADES	1000	79.9	83.6	80.8	78.1	77.2	76.1	74.4	73.2	71.6	68.1	65.1	64.3	64.9	63.4	66.3	63.8
OVERALL MEASURED	1050	75.3	78.4	75.7	74.6	73.0	73.0	70.2	69.0	70.6	65.2	62.0	63.1	63.0	64.1	63.8	63.6
OVERALL CALCULATED	1100	73.0	77.9	71.2	71.5	70.3	70.5	68.1	66.4	75.2	67.5	63.3	65.6	66.5	67.5	70.6	66.3
	1150	70.4	78.2	68.4	68.6	68.6	69.7	69.2	67.7	79.6	71.8	65.8	69.6	69.5	70.7	72.7	71.4
	1200	93.8	96.7	95.2	93.9	93.4	92.4	91.6	90.0	89.8	88.3	87.1	86.2	86.0	86.3	89.9	83.2
	1250	94.3	97.3	95.3	94.0	93.6	92.2	90.9	89.3	88.8	88.1	84.2	83.1	83.0	82.7	82.5	82.6
	1300	108.2	111.4	109.5	107.9	107.9	105.8	104.6	102.9	101.7	98.9	97.2	96.1	95.7	95.6	95.0	95.2

MODEL SOUND PRESSURE LEVELS (DB, DEG, F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 8 DAY 21 HR. 14.2  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PHL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	150.	
50	70.7	73.6	70.7	72.1	72.2	71.0	69.5	69.2	67.8	71.1	69.1	67.3	68.0	69.1	56.9	119.2
63	73.0	68.8	77.1	71.4	79.4	76.1	68.8	63.4	78.2	78.5	67.0	65.5	61.4	67.2	58.4	123.8
80	60.4	63.6	60.7	62.1	61.9	61.1	60.5	60.7	59.7	62.9	62.8	59.7	60.8	60.1	53.9	110.7
100	65.9	66.7	65.0	65.0	68.2	64.4	63.7	63.1	61.1	64.5	64.0	64.2	65.5	64.6	57.3	114.0
125	69.0	69.2	65.4	65.3	67.5	64.6	63.1	62.7	61.2	65.5	63.3	63.2	66.4	63.4	58.2	114.1
160	60.7	60.7	62.2	62.3	64.0	62.1	62.8	62.0	60.2	61.2	61.3	62.2	63.0	60.1	58.0	111.5
200	64.7	67.8	65.8	65.0	67.1	66.0	64.7	64.0	61.1	62.1	60.9	59.4	59.2	61.4	58.9	113.1
250	67.9	71.8	70.1	69.1	69.2	68.1	66.7	66.1	63.8	61.0	60.0	59.1	60.1	62.1	60.2	115.3
315	64.3	68.1	67.5	67.3	67.5	67.6	64.9	64.3	62.4	63.7	63.3	61.8	62.4	62.4	61.5	114.5
400	64.8	66.7	65.9	65.8	65.0	63.9	63.5	61.9	60.8	61.2	63.1	64.0	65.0	63.2	62.9	113.5
500	64.7	67.6	66.9	65.7	65.9	65.7	65.6	64.2	63.7	62.1	63.2	61.9	63.2	62.9	64.7	114.2
630	69.9	73.9	75.1	74.4	75.7	73.2	72.7	71.4	70.2	69.5	68.3	67.4	68.4	66.5	68.3	121.4
800	70.8	72.9	74.0	73.2	72.3	73.3	71.9	71.3	69.1	69.4	67.2	67.2	69.0	64.4	70.0	120.6
1000	73.8	78.0	76.9	76.1	73.3	75.1	73.0	70.3	68.9	67.4	67.2	68.2	68.4	67.4	68.2	121.7
1250	77.0	78.9	78.1	75.9	78.0	75.4	73.7	72.3	70.1	70.4	70.2	70.4	70.3	70.1	70.0	123.2
1600	75.9	77.9	76.1	76.0	73.9	74.3	73.5	71.0	69.7	68.3	67.8	68.2	68.2	68.0	68.1	122.0
2000	77.3	81.1	79.5	78.2	75.6	76.6	73.8	72.6	70.3	68.6	67.5	69.5	69.3	68.5	70.4	123.9
2500	77.7	81.7	80.1	77.6	75.1	75.9	72.6	71.9	70.6	68.9	68.0	68.0	68.8	68.1	68.9	123.7
3150	81.3	81.0	82.2	79.2	75.9	75.5	76.0	74.5	70.2	68.7	67.3	67.6	69.3	66.4	67.2	125.1
4000	80.9	84.0	83.0	79.0	78.5	77.1	76.8	74.3	72.8	69.3	68.1	70.7	70.3	67.4	70.2	126.3
5000	83.2	83.2	81.6	82.4	80.7	78.7	78.3	75.6	76.4	74.8	73.6	74.0	72.3	73.4	70.4	128.2
6300	77.3	82.6	79.9	75.7	78.0	74.0	72.5	70.9	69.4	68.8	66.9	66.2	67.9	64.8	68.9	124.0
8000	76.6	79.7	75.7	73.5	73.9	73.0	71.5	68.9	67.7	65.9	63.8	63.3	61.8	61.9	63.7	122.2
10000	73.8	77.7	74.0	71.7	71.1	70.1	70.0	67.8	66.8	65.0	63.1	64.4	64.2	62.2	64.2	121.3
12500	70.6	74.3	70.6	68.5	67.7	67.2	65.3	63.8	68.7	64.8	61.0	62.0	61.9	62.8	65.7	120.2
16000	69.2	73.9	67.2	67.4	66.5	66.4	66.3	63.6	74.4	69.5	63.6	67.5	65.5	67.6	69.4	124.6
20000	66.6	73.5	65.7	65.9	67.6	64.6	65.6	62.5	74.0	69.7	64.6	66.8	66.7	68.7	71.7	127.5
25000	89.8	92.7	90.2	90.2	89.3	88.1	87.9	87.0	85.1	86.5	85.2	84.4	84.3	85.1	83.2	
31500	89.7	92.3	90.7	88.9	88.3	87.3	85.9	84.1	84.9	83.7	81.0	81.4	81.4	81.0	81.2	
40000	103.5	106.2	104.5	102.6	101.6	100.4	99.5	97.4	96.9	95.6	94.4	94.8	94.3	94.0	93.3	136.7

OVERALL MEASURED  
 OVERALL CALCULATED

MODEL SOUND PRESSURE LEVELS (99, 0.0, F, 70 PERCENT REL, HUM, DAY)  
PROG, DATE - MONTH 8 DAY 21 HR, 14.2  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100: FT.	90	71.8	73.8	72.7	72.8	73.2	71.9	69.7	70.1	67.7	70.9	69.1	68.4	68.0	70.0	69.4	57.9	120.0
(30: M)	63	72.0	69.0	77.2	71.3	79.4	76.0	68.9	64.3	78.2	78.3	68.2	65.7	63.1	68.4	66.1	60.0	123.8
VEHICLE AIT	80	62.6	64.7	67.8	63.8	64.8	63.0	62.8	62.7	60.3	62.9	62.9	61.9	61.7	63.8	61.8	54.8	112.6
CONFIG APP	100	67.9	68.7	69.1	66.2	68.2	65.1	65.6	66.0	62.3	64.3	65.0	65.6	66.2	65.1	65.8	58.9	115.3
LOC PTD	125	72.1	71.9	69.3	68.4	69.6	67.6	64.9	67.3	62.4	64.4	64.3	65.7	68.2	63.6	65.4	59.6	116.3
DATE 8/9/74	160	62.9	63.7	67.1	63.1	64.4	63.3	64.6	63.2	61.0	62.2	62.8	62.8	62.0	63.2	62.1	60.9	112.9
RUN 570	200	69.5	72.5	70.6	78.0	71.8	69.9	68.7	66.0	64.9	64.4	62.8	61.0	62.1	63.3	61.9	60.9	116.7
TAPE A253	250	67.6	70.7	73.0	67.9	68.1	66.1	65.5	64.8	63.1	61.1	60.9	62.1	61.1	61.4	61.2	68.9	115.1
BAR 28.9 HG	315	66.0	68.0	67.4	65.5	66.3	66.8	65.2	64.3	62.3	63.7	64.6	66.8	65.5	64.6	64.3	63.5	115.3
(977) 161 N/M2	400	66.7	68.8	71.9	67.7	67.0	66.1	66.5	64.9	64.7	63.0	64.8	69.2	67.7	65.1	64.8	65.1	116.8
TAMR 74: DEG F	500	66.6	68.5	70.8	66.6	66.8	67.8	65.6	68.0	64.6	64.2	64.9	65.2	63.9	63.1	64.0	67.6	116.1
(296: DEG K)	630	66.8	68.9	70.3	71.9	73.2	71.2	69.8	68.1	67.0	67.3	68.3	68.5	67.3	67.3	67.0	68.3	119.4
THEY 6: DEG F	800	69.0	71.7	71.9	72.1	72.1	73.0	69.5	70.0	68.8	70.1	68.9	68.2	66.2	64.4	66.2	69.1	120.1
(288: DEG K)	1000	72.7	74.9	73.8	72.8	70.3	71.4	70.9	69.1	68.1	68.3	67.2	67.4	68.1	66.3	66.2	68.2	119.9
HACT 9.6U GM/M3	50	74.7	74.7	72.8	71.2	73.0	72.4	70.6	68.1	69.1	68.4	68.0	68.4	70.2	69.3	67.9	69.0	120.7
(.00960 KG/M3)	1500	72.7	75.9	73.0	72.1	70.2	70.3	68.6	68.2	65.1	66.1	65.8	67.4	67.1	66.9	68.0	68.0	119.2
NFA 7018: RPM	2000	71.8	74.9	73.2	73.4	71.5	71.4	68.9	68.3	67.0	66.5	67.2	68.6	69.2	68.4	69.4	70.4	120.3
(735: RAD/SEC)	2500	73.5	76.4	75.5	73.6	72.2	72.0	69.3	67.9	67.6	66.0	66.7	68.3	68.6	68.1	67.7	68.9	120.6
NFK 69.9: RPM	3150	75.1	76.9	76.4	73.1	74.6	71.6	70.9	70.5	67.3	66.5	65.3	67.6	68.2	65.4	67.1	66.5	120.8
(734: RAD/SEC)	4000	76.8	79.9	76.9	74.0	74.4	73.1	72.9	71.1	69.1	68.1	68.3	69.7	70.0	68.4	68.1	71.1	122.9
NFD10628: RPM	5000	78.4	78.3	75.5	77.6	77.6	74.6	74.3	75.4	75.2	73.7	75.7	75.0	73.6	74.8	73.4	71.6	126.3
(1113: RAD/SEC)	6000	72.4	77.3	74.5	71.8	71.7	70.0	69.3	68.9	67.6	66.5	66.9	67.2	69.6	65.8	68.2	68.9	121.0
NO. OF BLADES 48	8000	72.5	73.6	71.5	69.9	69.7	69.1	67.3	65.9	65.6	64.0	63.8	64.1	63.9	63.0	64.0	64.0	119.0
OVERALL MEASURED	10000	69.7	72.9	69.0	68.2	67.2	67.4	66.7	65.2	66.1	64.0	64.0	64.3	64.8	63.1	62.9	64.2	118.9
OVERALL CALCULATED	12000	67.0	71.5	66.8	64.8	66.0	64.0	63.5	62.0	68.1	64.9	61.1	63.1	62.8	62.9	62.1	65.0	119.0
PND8	16000	65.5	73.4	65.5	64.5	66.7	65.9	65.2	64.0	74.6	70.8	62.8	66.9	65.7	65.8	67.5	69.6	124.8
	20000	65.5	75.8	64.7	64.9	68.0	66.1	65.8	65.0	72.9	71.1	63.1	66.2	65.9	69.2	67.1	70.8	127.4
		66.9	89.0	87.9	86.8	87.4	86.3	85.8	86.2	83.9	86.0	84.9	84.3	84.9	85.4	86.2	82.9	
		86.0	88.4	87.0	85.5	86.2	84.8	83.1	82.4	84.0	83.3	81.4	81.9	81.7	81.5	81.0	81.4	
		99.6	101.9	100.1	99.0	98.9	97.2	96.2	96.1	95.2	94.6	95.3	95.5	95.0	94.9	94.3	93.9	135.2

MODEL SOUND PRESSURE LEVELS (DB, DEC, F, 70 PERCENT REL. HUM, DAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	70.5	73.6	70.7	72.0	73.1	71.2	70.8	70.2	67.8	70.9	68.9	68.3	67.1	70.0	68.9	58.8	119.8
	63	72.0	68.8	75.9	71.2	70.4	75.1	69.0	64.2	76.4	78.3	67.4	69.7	62.3	68.4	66.4	56.3	123.7
RADIAL 100 FT.	80	61.7	64.8	62.7	62.6	62.6	63.1	63.5	61.9	60.6	64.0	62.8	60.9	61.9	62.0	60.8	55.1	112.1
(30: M)	100	67.7	67.8	66.0	67.1	68.9	65.1	65.9	64.1	62.2	69.2	65.0	65.2	67.2	66.1	65.0	58.9	115.5
VEHICLE ATT	125	69.2	71.2	67.3	68.2	68.2	66.7	67.0	65.6	62.3	69.3	64.4	63.6	67.4	64.6	65.3	59.3	115.8
CONFIG APP	160	63.8	63.7	65.0	64.2	64.3	64.4	64.6	64.2	62.3	62.3	63.0	63.4	63.4	62.1	60.0	59.0	113.2
LOC PTD	200	69.6	71.6	69.0	68.0	69.9	68.2	67.6	65.8	63.0	64.1	62.1	61.4	61.0	63.0	61.9	60.3	115.6
DATE 8/5/74	250	69.5	71.8	69.7	68.1	68.8	67.0	67.6	65.9	64.0	61.0	60.2	60.1	60.2	62.2	61.2	62.3	115.1
RUN 571	315	65.2	68.1	68.3	68.4	69.2	67.5	65.8	65.4	64.2	64.4	63.3	63.5	65.5	64.6	63.5	62.5	115.8
TAPE AY53	400	66.7	69.8	68.6	67.7	66.8	66.1	64.3	62.8	62.7	61.8	64.1	65.0	65.7	64.0	63.1	64.0	115.3
BAR 28.7 HG	500	67.4	69.4	67.6	66.7	66.8	67.1	66.4	65.0	64.7	63.1	64.2	62.2	63.8	63.9	63.8	66.9	115.4
(97716: N/M2)	630	69.7	73.1	74.0	75.2	76.2	74.5	73.7	71.3	71.1	70.1	69.4	67.3	68.2	67.5	67.2	69.3	122.0
TAMB 74: DEG F	800	70.9	72.0	73.1	73.9	72.3	72.3	70.6	70.2	68.1	68.0	68.0	67.3	67.1	65.1	66.3	69.0	120.3
(298: DEG K)	1000	74.0	75.7	76.2	75.1	73.0	74.2	72.9	70.2	68.0	68.3	68.3	67.2	67.2	66.3	66.2	68.2	121.1
THET 6: DEG F	1250	77.0	78.0	76.8	74.9	74.1	73.3	72.9	71.2	69.0	69.3	69.0	69.3	69.3	70.0	68.1	69.2	122.1
(289: DEG R)	1500	74.7	76.6	74.9	74.1	72.9	73.1	71.5	68.9	67.8	67.1	66.1	67.3	67.2	67.3	66.8	68.1	120.7
HACT 9.60 GM/H3	2000	76.0	79.0	77.2	76.1	73.3	74.6	72.1	71.3	69.0	67.3	67.5	68.6	68.5	68.4	68.3	70.3	122.3
(100960: KG/H3)	2500	76.4	80.5	78.9	76.9	74.7	75.8	71.6	70.9	69.7	68.0	67.0	67.8	68.0	68.9	68.0	69.9	123.1
NFA 6910: MPH	3150	79.9	82.2	80.2	77.3	76.2	75.2	75.1	73.2	70.2	68.5	66.3	67.6	68.6	65.2	67.2	67.5	124.1
(723: RAU/SEC)	4000	81.0	84.9	82.0	79.1	78.3	76.4	75.9	72.9	71.9	69.1	68.9	69.4	70.3	67.4	68.3	71.2	126.1
NFK 68: MPH	5000	83.2	83.2	79.5	80.8	80.6	77.4	76.2	75.5	76.5	74.4	74.7	74.5	71.7	74.8	72.4	70.4	127.1
(713: RAU/SEC)	6300	76.6	82.3	78.8	74.6	74.8	72.7	72.3	70.6	68.5	68.0	66.8	65.7	67.9	65.0	65.1	66.0	123.1
NFD10628: MPH	8000	76.7	78.8	75.5	73.9	73.7	72.0	70.6	67.8	66.6	65.0	63.1	63.9	63.9	62.8	63.8	63.7	121.8
(1113: RAU/SEC)	10000	73.6	76.9	73.1	71.9	71.2	69.9	69.6	67.1	67.9	65.0	63.3	64.3	65.3	63.4	62.0	65.0	121.1
NO. OF BLADES 44	12500	70.5	74.4	69.8	67.8	67.0	66.9	64.6	62.9	68.7	64.2	60.8	63.0	62.9	63.9	62.2	66.1	120.1
	16000	69.3	74.2	67.6	66.7	67.7	68.9	66.1	63.8	74.6	67.7	62.6	66.0	67.7	68.6	66.5	68.7	124.1
	20000	66.5	74.5	66.1	65.9	69.0	65.9	65.5	62.9	73.7	69.1	62.9	66.4	68.9	68.9	67.9	72.0	127.1
OVERALL MEASURED		89.6	92.0	89.1	89.0	89.3	88.1	87.9	85.9	88.1	86.0	85.3	84.4	84.3	85.3	85.9	84.0	
OVERALL CALCULATED		89.3	91.9	89.6	88.1	88.1	86.6	85.3	83.5	84.7	83.4	81.2	81.3	81.5	81.6	80.7	81.5	136.1
PND8		103.3	106.0	103.6	101.9	101.5	99.6	98.6	96.9	96.7	99.2	94.9	94.9	94.4	94.9	93.7	94.0	

	ANGLES FROM INLET IN DEGREES (AND RADIAN)																	PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
50	71.2	74.5	72.2	73.3	73.3	71.7	71.3	71.4	68.5	71.6	70.3	70.5	69.3	69.6	69.8	58.6	120.7	
63	72.9	71.7	77.6	72.8	79.0	76.1	69.7	66.6	78.0	77.9	68.8	67.2	65.1	68.5	68.2	60.0	123.8	
RADIAL 100. FT. ( 30. M)	80	65.3	68.5	66.2	66.5	67.5	66.8	67.5	66.2	63.3	65.4	66.3	66.5	64.4	65.6	65.1	56.7	115.8
VEHICLE ATT CONFIG APP	100	69.7	70.8	69.7	68.8	70.7	67.8	68.8	66.6	64.9	66.6	66.7	67.0	66.0	67.8	68.2	61.2	117.6
LOC PTO	125	72.0	75.2	72.1	72.2	72.2	69.4	71.2	71.0	67.0	66.9	67.1	68.3	69.0	66.2	68.5	61.2	119.4
DATE 08/05/74	160	64.8	66.8	69.6	66.6	66.8	65.8	67.6	69.7	63.6	63.1	62.7	64.0	65.0	63.3	62.1	59.2	115.0
RUN 572	200	73.0	75.0	76.0	71.7	73.3	71.8	71.0	67.6	65.6	65.8	64.7	64.2	66.1	66.3	64.5	62.4	119.2
TAPE A953	250	73.0	77.0	73.9	71.8	71.2	69.9	70.0	66.4	65.7	63.8	63.7	64.0	64.2	64.3	64.3	63.3	118.2
BAR 28.9 HG	315	68.9	71.7	71.9	70.0	71.9	69.3	68.8	67.6	65.7	66.9	66.9	68.1	68.6	67.4	66.5	65.3	118.5
(97716. N/M2)	400	69.5	71.9	71.6	70.6	70.1	68.9	67.9	66.5	66.0	66.0	67.6	69.7	70.7	68.2	68.1	67.0	118.8
TAMB 74. DEG F	500	67.5	70.8	70.4	68.8	69.0	68.8	66.9	66.4	65.8	65.5	66.6	66.7	66.8	68.1	66.1	69.0	117.8
(296. DEG K)	630	68.0	71.9	73.2	74.0	75.5	73.2	72.9	70.0	69.8	69.3	69.2	67.4	70.5	69.4	68.6	71.3	121.5
THET 61. DEG F	800	70.0	72.1	74.6	74.0	74.0	73.0	71.1	70.6	71.0	70.1	69.1	69.2	69.3	67.1	69.2	73.0	121.5
(289. DEG K)	1000	73.2	74.2	75.9	74.0	72.4	73.4	71.9	70.8	68.8	69.0	68.0	69.4	70.2	67.1	68.6	69.6	121.6
WACT 9.75 GN/M3	1250	74.9	76.1	75.6	73.8	73.2	72.2	72.8	70.9	69.0	69.1	69.8	70.3	71.2	69.9	69.5	70.4	121.8
(100975 KG/M3)	1600	72.1	74.0	74.6	73.3	71.0	71.1	71.0	67.7	66.8	66.9	66.9	69.0	68.3	67.3	68.5	69.2	120.2
NFA 7073. RPM	2000	70.9	76.2	75.1	74.0	72.2	72.2	70.2	69.1	68.1	66.3	67.0	69.1	70.0	68.4	70.3	72.2	121.2
( 741. RAD/SEC)	2500	73.5	76.6	76.6	74.0	72.1	71.9	69.6	68.6	67.9	66.7	66.7	68.9	69.1	68.3	69.1	70.3	121.1
AFK 6976. RPM	3150	73.6	75.9	76.1	73.3	71.4	70.4	70.2	70.1	67.0	66.5	66.1	69.2	68.4	66.2	68.4	67.3	120.7
( 730. RAD/SEC)	4000	74.0	77.9	76.6	72.9	73.1	72.3	71.7	70.5	69.7	67.7	67.8	71.1	70.0	68.3	69.1	71.0	122.3
NFD10628. RPM	5000	76.3	76.3	75.0	77.5	76.6	74.4	75.4	73.8	75.3	74.1	75.1	75.5	74.4	74.5	74.8	71.8	126.2
(1113. RAD/SEC)	6300	71.5	76.5	74.4	71.3	71.5	69.9	70.3	69.2	67.5	66.6	67.6	68.4	70.4	66.7	66.8	66.9	121.2
N. OF BLADFS 44	8000	71.5	72.5	71.2	69.4	69.7	67.7	67.6	65.4	65.5	64.3	63.8	64.5	64.7	62.6	64.0	63.7	118.7
OVERALL MEASURED	10000	68.6	70.7	69.4	67.5	66.7	66.9	66.7	64.4	66.8	64.6	63.9	65.9	65.9	63.9	63.0	63.9	116.9
OVERALL CALCULATED	12500	67.0	70.8	65.6	65.8	63.9	64.0	64.0	61.5	69.6	64.1	61.9	64.2	64.2	64.1	64.2	65.3	119.3
PNDU	16000	65.1	73.2	64.7	62.9	63.3	64.3	63.9	61.7	74.1	68.9	62.2	63.3	65.9	67.3	66.6	68.5	124.1
	20000	63.1	73.4	63.4	64.3	64.4	63.4	63.4	63.2	75.4	69.5	62.5	69.6	66.2	69.8	69.0	71.8	128.0
		87.0	89.7	88.0	86.9	88.2	87.3	86.8	80.8	87.0	86.9	85.9	85.9	85.9	86.2	86.3	84.4	
		85.8	88.5	88.0	86.4	86.7	85.3	84.5	83.0	84.6	83.5	82.0	83.1	83.1	82.3	82.6	82.6	135.6
		98.7	101.4	100.6	99.5	98.9	97.4	97.4	95.9	96.0	95.1	95.5	96.4	96.1	95.4	95.8	94.0	



	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
FREQ. (0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)	
RADIAL 100: FT.	50	70.8	72.8	69.8	71.9	72.3	71.0	69.7	70.1	68.0	70.0	68.8	68.0	67.2	67.2	68.1	57.1
(30: M)	63	71.8	68.0	75.9	70.4	79.5	75.3	67.7	63.2	77.6	78.5	67.1	65.7	62.2	67.2	65.1	59.3
VEHICLE ALT	80	61.5	63.5	61.0	61.6	61.9	60.8	60.7	61.2	58.7	61.7	62.0	59.0	59.7	60.1	59.7	53.9
CONFIG APP	100	65.9	67.8	66.4	68.0	69.2	65.1	65.1	64.1	63.8	66.2	65.0	63.3	67.0	64.4	66.1	57.9
LOC PTO	125	66.3	69.2	65.7	67.5	65.5	65.4	66.1	63.6	65.1	66.5	63.6	62.5	65.5	63.4	65.6	59.7
DATE 8/3/744	160	60.7	61.7	63.0	62.9	63.5	62.4	62.7	62.0	60.1	61.1	61.0	61.2	61.3	61.1	59.4	58.0
RUN 573	200	67.5	69.8	68.0	67.2	68.3	67.2	65.5	64.9	61.7	64.0	61.9	60.1	59.2	61.2	60.3	59.2
TAPE	250	73.9	76.6	75.1	74.9	74.2	73.3	72.6	70.2	68.9	67.0	63.9	63.2	62.4	64.3	65.4	64.2
BAR 28.9 KC	315	73.1	76.9	77.2	76.3	76.6	75.4	73.1	71.5	70.2	69.3	67.5	64.8	64.3	63.7	66.6	65.7
(97716: N/M2)	400	70.8	72.7	72.9	72.7	71.8	70.9	69.3	68.0	65.7	65.0	65.0	63.0	64.1	62.9	62.8	63.9
TAMP 74: DEG F	500	69.5	71.9	71.7	70.9	70.0	69.3	67.4	66.9	64.6	63.8	63.7	62.2	62.8	62.9	63.2	65.2
(296: DEG K)	630	73.8	76.8	77.3	77.4	77.5	74.2	73.8	71.4	71.0	70.3	68.3	67.2	68.2	66.5	66.4	68.3
THET 61: DEG F	800	73.8	76.9	76.2	76.1	75.3	75.4	73.7	71.9	69.8	68.3	69.2	67.5	67.3	65.3	66.2	70.2
(289: DEG K)	1000	78.0	77.9	78.2	77.0	76.3	77.4	76.9	74.3	72.1	71.3	70.5	69.5	69.1	67.3	67.0	69.0
MACT 9.73 GM/M3	1250	76.9	78.9	79.3	79.0	77.0	77.3	75.6	73.2	70.8	70.0	68.1	67.3	68.0	67.2	67.1	69.1
(.00973: KG/M3)	2000	78.4	81.0	81.4	80.3	77.5	78.3	76.8	75.2	72.6	70.5	69.4	68.4	69.3	67.5	68.3	70.4
NFA 6774: RPM	2200	80.7	84.6	81.8	81.0	79.1	79.2	76.4	74.7	73.6	70.0	69.0	68.0	68.0	68.0	66.9	69.7
(709: RAU/SEC)	315	85.2	87.1	86.4	83.5	81.6	81.8	79.5	75.5	73.2	71.5	69.3	69.5	71.4	66.6	68.1	69.5
NFK 668: RPM	400	85.1	89.8	87.3	84.1	84.1	82.4	82.0	79.4	77.2	73.0	71.0	71.5	71.3	68.3	69.1	72.2
(700: RAU/SEC)	500	87.1	88.4	84.9	87.5	86.7	83.7	81.1	78.8	76.7	76.4	75.5	73.6	72.7	72.8	72.6	71.6
NFD 628: RPM	630	81.8	87.4	83.8	80.5	80.9	79.1	77.3	75.6	72.6	68.9	67.9	66.7	69.0	64.1	64.5	66.6
(1113: RAU/SEC)	800	81.6	84.5	81.9	79.8	81.0	77.8	76.5	73.0	71.7	69.1	66.9	64.9	64.8	62.8	63.9	64.9
NO. OF BLADES 44	1000	79.7	82.9	79.2	76.7	78.0	75.9	74.7	72.2	70.9	67.1	65.3	64.2	64.9	62.0	62.1	64.9
OVERALL MEASURED	12500	75.4	78.6	74.9	73.9	72.0	72.8	70.5	68.8	69.9	65.8	62.9	61.9	62.8	61.1	61.9	65.0
OVERALL CALCULATED	20000	73.1	77.1	70.6	70.4	68.6	69.7	68.9	66.7	74.2	68.4	64.4	63.7	65.4	65.7	65.5	70.3
PWDB	92.7	96.0	94.2	93.2	92.1	91.4	90.9	89.0	87.1	87.3	85.9	84.4	84.3	84.3	83.9	84.1	84.1
	93.3	96.3	94.2	93.1	92.5	91.1	89.8	87.5	87.1	85.0	82.4	81.5	81.8	80.7	80.7	82.1	139.9
	107.1	110.4	108.3	107.4	106.7	104.8	103.7	101.4	100.6	97.6	96.1	94.8	94.7	93.7	93.8	94.8	

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL	
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
FREQ. (0.5)	69.9	72.8	69.9	71.7	73.2	71.2	68.8	67.2	68.1	70.9	68.0	68.0	66.9	69.1	68.1	57.1	119.4	
RADIAL 100: FT. (30: M)	63	71.8	68.9	76.2	71.1	78.2	78.1	68.8	63.5	78.2	79.3	67.3	65.2	64.4	67.4	64.2	58.1	124.0
VEHICLE CONFIG	80	60.9	63.5	61.7	62.1	61.8	62.2	61.7	60.7	59.7	61.9	63.0	59.9	60.7	59.9	60.9	54.7	111.1
LOC PTD	100	65.8	66.9	66.1	67.3	68.0	64.4	65.6	66.0	63.1	65.1	66.2	63.1	67.0	64.6	68.4	58.3	115.3
DATE 8/5/744	125	65.3	68.2	65.4	65.3	65.4	64.4	65.2	65.3	62.1	62.6	64.2	62.8	64.3	62.4	64.3	58.3	114.0
RUN 574	160	60.9	61.7	63.2	62.9	64.0	62.4	62.7	61.3	59.2	60.3	61.3	60.5	61.3	61.1	59.2	58.4	111.4
TAPE 28.9 HG (97716: N/M2)	200	66.7	69.9	68.0	67.1	66.9	66.0	65.6	63.9	61.8	62.1	59.3	60.1	61.3	61.3	60.2	58.9	113.9
BAR 74: DEG F (296: DEG K)	290	74.0	77.0	75.1	67.8	73.2	72.1	71.7	69.1	68.0	69.2	64.4	62.2	62.1	63.3	64.4	64.1	119.6
THET 64: DEG F (289: DEG K)	315	74.0	76.8	76.2	76.2	76.2	74.6	73.3	71.5	70.6	69.5	67.4	64.5	64.3	63.7	65.5	66.2	121.7
HACT 9.79 GM/MS (1.00979: KG/MS)	400	70.8	72.8	72.8	73.0	72.7	71.1	69.4	68.0	66.6	65.1	65.8	63.2	63.9	62.2	63.0	63.1	118.5
NFA 6674: RPM (699: RAD/SEC)	500	70.8	73.5	72.9	72.8	71.8	70.9	69.6	67.8	66.8	65.0	66.0	63.4	65.9	65.9	65.7	65.8	118.7
NFK 6583: RPM (689: RAD/SEC)	600	75.1	78.1	78.2	78.4	78.3	76.5	74.9	73.4	72.2	70.4	70.2	68.5	68.4	67.5	68.1	69.3	123.9
NFD10628: RPM (1113: RAD/SEC)	800	76.0	79.1	78.2	77.9	77.3	77.3	75.9	73.3	72.1	70.3	70.2	69.4	70.2	66.2	66.2	70.2	124.0
NO. OF BLADES 44	1000	78.1	80.0	82.0	81.5	80.3	80.3	79.1	76.0	74.9	72.1	72.1	70.2	72.1	68.4	69.2	72.2	127.1
OVERALL MEASURED	1250	79.1	83.0	83.0	82.3	81.4	81.3	79.8	77.0	75.1	72.3	72.3	71.1	72.3	70.4	69.3	71.9	128.0
OVERALL CALCULATED	1500	79.2	80.0	82.4	81.0	79.0	80.1	78.8	76.2	74.0	71.0	71.2	69.1	70.2	68.3	67.1	68.8	126.5
	2000	80.2	83.2	82.4	82.7	81.6	81.5	79.2	78.5	74.4	72.4	71.2	68.6	71.3	68.3	68.3	72.1	128.2
	2500	83.0	85.7	84.0	83.8	82.0	82.2	79.5	78.8	75.9	73.0	71.9	69.1	71.0	69.1	67.9	70.6	129.1
	3000	86.6	89.1	88.5	85.5	84.4	83.4	84.9	82.6	78.4	75.4	72.2	70.6	73.4	68.5	68.5	71.1	132.1
	3500	88.1	91.9	90.1	87.3	87.2	86.2	84.9	82.4	79.3	75.2	74.8	73.5	73.0	69.4	70.0	73.8	134.0
	4000	90.4	91.4	88.6	89.6	89.6	85.8	85.1	81.7	83.3	78.7	77.6	74.5	73.4	73.5	73.6	72.3	135.1
	4500	84.9	89.4	86.9	83.0	84.0	82.2	80.6	77.9	75.4	71.8	71.9	68.0	70.8	65.8	65.7	67.8	131.0
	5000	85.0	86.7	84.7	81.8	83.0	81.1	80.4	76.0	74.5	72.0	71.9	66.0	67.8	63.9	65.7	66.7	130.2
	5500	82.9	83.9	82.0	80.4	80.3	79.1	78.6	75.2	73.0	69.3	71.0	65.1	68.2	63.1	62.8	66.1	129.2
	6000	77.7	81.7	77.7	76.9	76.0	75.6	73.5	70.8	71.8	67.2	70.9	63.9	64.0	61.9	62.9	65.9	126.7
	6500	75.4	74.5	74.3	73.7	73.0	72.6	71.2	68.8	68.8	65.6	70.4	65.9	66.8	65.5	65.9	70.3	127.9
	7000	70.5	76.4	69.9	68.9	70.7	68.8	67.5	66.0	77.2	69.9	72.7	66.9	68.7	65.8	64.9	71.8	130.0
	7500	95.1	97.9	95.9	95.2	95.3	94.1	92.9	91.0	89.4	88.1	89.0	85.1	86.3	84.1	85.3	84.0	
	8000	95.8	98.4	96.7	95.4	95.2	93.7	92.5	90.1	89.5	86.4	85.2	82.4	83.5	81.3	81.3	83.0	142.3
	PNDB	109.8	112.3	110.8	109.5	109.3	107.6	106.3	104.1	102.9	99.4	98.4	95.7	96.4	94.6	94.7	95.6	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ:	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	69.8	73.8	70.0	72.0	72.3	71.2	69.6	69.1	67.8	70.2	68.8	68.1	67.9	69.2	68.1	57.2	119.3	
63	72.0	67.7	75.9	71.2	79.4	75.4	68.8	63.3	78.2	78.3	66.6	65.4	61.3	67.3	64.2	58.1	123.6	
RADIAL 100: FT.	80	62.6	63.6	61.0	61.6	61.9	62.5	61.3	62.7	59.7	62.9	63.9	62.2	60.8	61.9	60.7	56.0	111.7
( 30: H)	100	63.9	65.9	64.0	66.4	66.9	63.5	64.5	67.0	64.9	63.3	65.2	64.5	68.0	64.3	65.8	56.4	115.2
VEHICLE ATT	125	64.3	67.0	64.2	65.3	64.6	63.7	64.1	64.3	61.5	62.3	61.6	61.5	63.6	61.9	64.4	58.1	113.2
CONFIG APP	160	60.9	61.8	63.1	63.2	64.1	62.1	62.8	62.1	59.2	60.0	61.1	60.5	61.1	60.4	59.0	57.3	111.3
LOC PTO	200	66.8	69.5	69.0	66.0	67.1	67.1	65.5	64.2	63.0	64.1	62.1	61.2	60.0	62.1	59.9	59.1	114.3
DATE 8/5/744	250	73.8	79.9	74.1	73.9	73.0	72.2	70.3	69.2	66.8	64.2	63.4	62.1	61.2	63.1	64.4	64.1	119.1
RUN 575	315	74.2	76.9	76.4	76.3	76.3	74.4	72.0	71.3	69.4	69.3	67.1	65.5	64.6	63.7	64.3	66.3	121.6
TAPE 1780	400	71.5	73.7	73.6	73.8	72.8	72.3	70.3	68.8	67.6	66.8	65.8	64.5	64.2	61.9	62.0	63.9	119.2
BAR 28.9 HG	500	73.4	74.5	73.8	73.6	72.0	71.0	68.4	67.0	66.0	64.1	64.7	63.0	62.1	62.9	65.0	65.8	116.5
(97716: N/M2)	630	77.1	79.1	78.3	78.3	78.4	75.1	73.9	72.4	71.2	70.1	69.3	66.4	67.2	66.4	66.5	68.4	123.4
TAMR 74: DEG F	800	78.1	79.8	80.2	79.1	77.0	76.3	75.8	74.0	71.9	71.3	71.2	68.2	69.1	66.3	67.0	70.3	124.4
(296: DEG K)	1000	79.9	84.7	86.0	84.2	81.4	79.4	79.0	75.2	74.1	72.1	71.0	70.3	70.1	68.2	67.0	70.3	126.2
THET 64: DEG F	1250	80.0	82.8	83.0	83.3	82.2	82.2	80.8	79.4	78.5	75.4	73.2	72.2	73.3	71.1	71.1	72.1	129.0
(289: DEG K)	1500	79.7	81.0	83.1	83.2	81.0	82.3	80.6	78.2	74.7	72.9	71.9	70.0	71.2	69.0	68.1	71.2	128.4
HACT 9.75 GH/M3	2000	81.4	84.0	84.9	84.3	83.5	84.5	83.0	80.4	77.4	75.3	74.1	71.7	72.3	70.6	70.2	73.5	130.5
(.00975: KG/M3)	2500	84.6	86.7	86.6	86.0	84.8	86.1	82.5	81.9	78.7	76.0	72.8	71.2	72.6	70.1	69.7	73.0	131.9
NFA 8441: RPM	3150	90.3	92.0	91.4	89.8	88.6	87.4	88.0	86.6	82.4	79.4	75.5	74.5	76.5	72.0	71.5	74.2	135.9
( 674: RAU/SEC)	4000	91.1	94.8	93.2	91.2	92.4	91.1	89.5	87.4	85.1	80.3	78.1	76.5	78.2	72.3	73.0	77.4	138.4
NFK 6353: RPM	5000	94.1	94.4	91.6	94.4	95.5	92.6	91.9	87.4	88.5	83.4	80.7	77.6	76.4	76.8	75.5	75.4	140.3
( 665: RAU/SEC)	6300	87.7	92.3	90.7	87.7	87.8	86.0	85.1	82.7	79.5	75.7	73.5	71.0	72.9	68.0	68.7	70.8	134.9
NFD 06.8: RPM	8000	88.5	98.4	88.9	87.9	88.0	87.1	85.3	81.9	79.6	76.7	72.9	70.9	70.8	68.0	68.9	70.0	135.2
(1113: RAU/SEC)	10000	85.6	88.9	86.9	86.0	85.2	85.0	83.4	80.0	77.7	73.9	70.1	68.2	68.2	66.2	65.9	69.0	134.0
NO. OF BLAOES 44	12700	81.7	84.7	82.7	81.8	80.9	80.8	78.6	75.9	74.5	71.0	67.2	65.1	64.8	63.9	63.7	66.0	131.0
16000	79.2	82.5	78.5	78.4	77.7	77.7	75.8	72.0	74.4	71.4	65.5	67.8	66.7	67.7	66.4	69.6	130.4	
20000	73.4	77.6	73.6	72.9	72.9	72.0	71.4	68.9	74.0	69.7	64.8	68.0	68.7	68.0	66.8	70.9	129.9	
OVERALL MEASURED	98.0	100.9	99.2	98.9	99.2	97.5	95.7	94.0	91.5	90.0	87.2	85.5	86.3	85.3	86.0	85.2	85.2	135.2
OVERALL CALCULATED	98.9	101.2	99.8	99.3	99.6	98.1	96.6	94.2	92.7	89.2	86.4	84.5	85.2	83.0	82.6	84.8	84.8	134.0
PNOB	112.8	114.8	113.6	113.3	113.7	112.0	110.3	106.0	106.6	103.1	100.6	98.2	99.3	96.9	96.3	98.5	98.5	146.0

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 21 HR. 14.3

MODEL SOUND PRESSURE LEVELS (DB, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
RADIAL 100: FT.	50	70.6	72.9	69.8	72.0	72.0	71.0	69.6	70.0	67.7	70.12	68.1	68.0	66.8	69.2	67.8	57.2
(30: M)	83	71.0	67.7	75.2	70.1	79.4	76.1	68.9	63.2	77.9	79.2	67.8	65.5	62.2	67.5	64.2	59.2
VEHICLE ALT	80	60.4	62.4	60.6	61.8	61.9	61.1	60.7	60.9	58.7	62.1	62.2	60.2	59.0	59.1	59.7	123.8
CONFIG APP	100	66.8	66.9	65.9	67.0	69.4	64.2	65.8	65.3	62.9	64.2	66.4	63.6	67.2	64.1	68.1	110.9
LOC PTD	125	65.0	67.2	65.2	65.6	65.5	64.4	65.2	63.5	61.5	62.5	63.7	62.4	64.3	62.4	64.3	115.8
DATE 8/5/74	160	60.8	61.6	62.9	63.0	63.1	62.1	62.6	62.3	59.6	60.0	60.1	60.2	61.3	61.1	59.2	113.7
RUN 576	400	67.6	69.7	69.1	67.1	67.1	66.3	65.7	64.2	61.8	62.9	61.3	60.0	59.1	62.0	61.0	111.2
TAPE A780	250	73.9	75.8	75.0	74.2	73.2	72.0	71.5	69.1	67.1	69.2	64.0	63.2	63.1	63.1	65.1	114.2
BAR 28.5 HG	315	73.9	77.2	76.3	76.3	76.3	74.3	73.2	71.2	70.0	69.5	66.6	64.9	64.6	63.7	64.4	119.9
(97716: N/M2)	400	70.7	72.4	72.9	72.0	72.9	71.1	69.4	68.0	66.9	66.3	65.2	63.9	64.3	61.9	62.9	121.7
TAMP 74: DEG F	500	71.5	74.3	73.9	73.0	72.0	71.0	69.6	67.8	66.9	65.0	63.9	63.2	64.0	64.4	64.8	118.5
(296: DEG K)	630	75.1	78.2	78.3	78.1	78.5	76.5	75.0	73.3	72.2	70.1	70.0	68.5	68.3	66.3	67.3	126.6
THEY 6: DEG F	800	76.1	78.8	79.2	79.3	78.2	77.1	75.9	73.1	72.1	70.3	69.2	68.4	69.2	67.4	67.0	123.9
(288: DEG K)	1000	78.0	80.9	81.2	80.4	79.4	78.3	76.9	76.1	75.1	71.6	70.9	70.3	71.2	69.1	68.2	124.4
HACT 9.75 GH/M3	1500	79.9	84.1	82.2	82.3	81.7	81.2	79.7	78.3	75.1	73.1	72.2	72.2	72.4	71.4	68.2	126.7
(80975: KG/M3)	2000	80.1	83.0	82.4	82.6	81.6	81.7	80.2	78.5	75.3	72.2	71.0	69.4	69.5	68.3	69.2	127.9
NFA 6660: RPM	2500	82.0	86.5	84.4	83.2	83.1	82.3	79.4	78.0	75.0	72.7	70.9	69.9	70.9	69.1	68.7	128.3
(697: RAD/SEC)	3150	87.3	89.4	86.5	85.5	84.4	84.5	84.1	83.3	78.2	75.4	72.5	70.6	73.3	69.4	68.3	132.4
NFK 6569: RPM	4000	88.1	92.1	90.3	87.5	87.5	86.2	84.6	82.4	80.2	79.3	73.3	72.4	74.0	69.4	70.1	134.2
(688: RAD/SEC)	5000	90.5	91.5	88.4	90.9	89.8	87.9	85.8	82.5	83.9	79.5	77.6	74.6	74.3	74.8	73.6	133.8
NFD 628: RPM	6300	84.7	90.4	86.9	83.1	83.8	82.8	81.4	78.0	75.4	71.9	69.8	68.0	70.6	66.0	63.9	131.3
(1113: RAD/SEC)	8000	85.7	87.5	84.6	82.9	83.1	82.0	81.4	76.7	74.0	71.0	67.8	67.1	67.7	63.9	66.0	130.6
NO. OF BLADES 41	10000	82.7	85.6	82.2	81.2	81.1	79.9	78.8	74.8	73.0	69.0	67.2	65.1	66.1	63.1	63.3	129.4
OVERALL MEASURED	15000	78.7	81.9	77.6	76.7	76.0	75.8	73.6	71.9	70.8	67.8	62.9	62.9	62.9	61.0	62.0	126.5
OVERALL CALCULATED	20000	75.0	79.5	74.3	73.6	72.7	72.7	71.0	69.5	74.5	69.9	63.5	66.6	66.7	63.5	66.7	127.2
	25000	69.6	76.6	69.8	69.0	69.0	68.0	67.6	64.8	72.6	69.8	65.7	67.1	68.6	64.8	67.7	127.7
	30000	95.7	98.7	97.2	95.4	95.1	94.1	92.9	91.0	89.8	87.3	86.3	84.4	85.1	84.3	86.2	83.2
	35000	96.0	98.8	96.8	95.9	95.3	94.2	92.7	90.5	89.2	86.5	83.9	82.5	83.3	81.9	81.5	82.8
	40000	109.9	112.6	110.9	110.2	109.5	108.0	106.4	104.5	103.1	99.8	97.9	95.8	95.2	94.8	96.2	142.4

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ. (0, 0)	(0, 17)	(0, 35)	(0, 52)	(0, 70)	(0, 87)	(1, 05)	(1, 22)	(1, 40)	(1, 57)	(1, 75)	(1, 92)	(2, 09)	(2, 27)	(2, 44)	(2, 62)	PHL
	90	69.9	72.9	70.0	72.3	72.1	71.3	69.6	70.0	67.8	71.4	68.1	68.1	68.0	68.8	67.7	56.9
	63	71.1	68.1	75.2	71.2	79.3	78.3	69.7	65.1	77.9	79.2	67.1	65.4	62.5	57.0	64.3	57.4
RADIAL 100: FT.	80	61.5	62.9	61.0	62.1	61.9	62.8	61.8	62.0	58.7	62.9	63.9	62.0	61.7	61.9	59.7	55.0
(30: R)	100	65.5	66.7	65.9	66.9	66.9	62.5	65.0	69.4	62.9	63.3	66.1	65.2	69.1	65.8	66.0	57.1
VEHICLE ATT	125	64.2	67.2	64.1	65.3	64.3	63.5	64.2	63.7	61.1	62.3	61.6	61.8	64.3	61.2	63.3	58.4
CONFIG APP	160	60.8	61.7	62.8	63.2	63.3	62.4	63.6	62.0	58.9	60.3	60.2	60.6	61.5	60.1	59.3	58.2
LOG PTD	200	66.0	69.5	68.9	67.0	66.8	66.2	65.5	65.0	63.8	65.2	61.9	61.1	61.2	61.2	61.0	59.1
DATE 8/5/74	250	73.7	76.0	74.0	73.9	73.2	72.0	70.8	69.3	66.0	65.2	63.0	62.1	62.1	62.9	64.0	63.0
RUN 577	315	74.1	77.0	76.4	76.4	76.5	74.4	73.1	71.5	69.3	69.2	66.4	64.9	64.3	63.6	64.3	65.6
TAPE A/80	400	72.4	73.8	73.9	73.9	73.7	72.1	70.5	68.8	67.6	67.0	66.0	64.1	64.9	62.8	63.8	63.8
BAR 28.9 HG	500	71.7	74.6	74.5	71.9	71.0	71.8	68.5	66.7	66.4	66.0	64.7	63.2	63.1	63.0	62.8	65.7
(97716: N/M2)	630	76.8	79.3	78.2	78.0	78.5	75.1	74.6	73.3	72.2	69.4	69.3	67.7	67.3	66.5	66.4	69.4
TAMB 74: DEG F	800	76.9	80.1	80.0	80.1	78.2	77.4	76.8	74.0	72.8	71.3	71.2	68.4	69.1	66.3	65.0	70.3
(298: DEG K)	1000	80.7	84.8	83.2	83.3	80.2	80.3	77.9	75.1	73.8	73.2	71.1	71.4	71.3	69.0	68.3	71.1
THET 6: DEG F	1250	83.0	84.9	84.0	84.0	82.2	82.4	80.0	78.2	74.8	73.1	73.0	71.2	72.4	71.4	68.3	70.3
(289: DEG K)	1500	79.7	83.0	82.9	82.9	82.0	83.3	80.7	78.1	74.7	72.9	71.1	71.1	71.2	70.1	68.0	71.1
HACT 9.60 GM/M3	2000	81.2	85.2	85.2	85.3	85.3	85.6	84.0	81.2	78.4	75.6	74.3	72.7	72.3	71.5	70.2	74.3
(100960 KG/M3)	2500	84.4	88.7	87.9	86.8	85.9	86.0	83.3	82.0	79.7	77.0	74.0	71.8	72.7	70.8	70.7	73.7
NFA 6344: RPM	3150	91.3	93.4	92.3	89.5	89.3	89.5	88.8	87.2	83.4	79.4	78.3	75.4	77.4	73.3	72.5	75.9
(864: RAD/SEC)	4000	91.8	96.2	94.0	92.3	93.2	92.4	90.5	88.0	86.2	81.2	78.1	77.2	78.3	74.4	74.2	78.0
NFK 6.54: RPM	5000	94.5	96.3	92.3	95.6	95.8	94.7	92.0	89.3	90.5	89.8	81.5	78.8	77.7	78.7	77.7	76.4
(855: RAD/SEC)	6300	87.7	93.6	90.9	87.7	88.8	86.8	85.3	84.0	80.8	77.0	73.7	72.1	72.6	68.9	68.9	70.8
NFD10628: RPM	8000	88.7	91.7	89.6	87.9	88.8	88.1	86.4	82.9	81.7	76.9	72.9	70.9	70.9	68.3	69.1	69.7
(1113: RAD/SEC)	10000	86.1	89.8	87.1	87.3	86.0	85.2	84.5	81.5	78.9	74.1	70.9	68.3	69.2	66.4	66.0	67.9
NO. OF BLADES 4	12000	82.8	85.9	83.7	83.1	82.1	81.2	79.3	77.8	75.5	70.9	66.0	64.2	64.0	64.0	62.8	66.0
	16000	79.3	83.4	79.6	78.7	79.1	77.8	75.3	73.5	75.5	70.8	64.6	66.7	65.7	67.0	66.7	68.7
	20000	73.5	78.6	74.0	73.8	73.1	73.0	70.6	68.9	75.8	72.1	64.9	67.3	66.1	67.2	67.9	70.0
OVERALL MEASURED		98.7	101.8	99.8	99.9	100.0	99.4	97.5	94.9	94.1	90.4	87.1	86.3	85.9	85.2	86.3	85.2
OVERALL CALCULATED		99.4	102.6	100.4	100.1	100.2	99.4	97.3	95.1	94.1	90.3	86.7	85.1	85.5	84.8	83.3	84.9
PMDR		113.1	116.2	114.2	114.2	114.2	113.4	111.2	108.8	108.4	104.5	101.1	99.0	99.5	98.2	97.5	99.0

MODEL SOUND PRESSURE LEVELS (3V, DEG. F, 70 PERCENT REL. HUM., DAY)  
 PNOB, DATE - MONTH 8 DAY 21 HR. 14.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
		(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	70.6	73.8	70.0	72.0	72.9	71.0	69.9	69.9	67.1	70.13	69.4	68.2	68.1	69.3	69.2	57.1	119.6
	63	71.9	69.0	75.1	71.4	79.2	78.3	70.2	64.2	78.1	78.5	67.1	65.3	62.3	66.5	65.4	57.0	123.7
RADIAL 100: FT:	80	61.7	63.6	61.7	61.8	61.7	62.8	62.9	62.7	59.6	62.0	62.9	60.8	61.7	61.3	59.7	55.7	111.5
(30: M)	100	68.0	66.5	66.0	66.9	68.2	64.3	66.7	69.0	65.4	66.0	64.1	62.1	68.0	65.9	68.0	57.0	116.0
VEHICLE ALT	125	64.4	67.2	64.5	65.5	64.8	64.7	64.8	65.1	62.2	62.4	6.6	6.5	63.3	6.4	63.6	58.7	113.3
CONFIG APP	150	61.6	62.0	62.7	63.2	63.3	63.1	62.8	62.0	59.3	61.0	62.0	61.0	60.9	61.1	59.0	58.1	111.5
LOC PTD	200	67.6	69.9	67.8	67.0	67.9	65.9	65.7	63.2	63.2	62.9	62.0	61.1	60.0	62.3	60.0	59.2	114.1
DATE 8/5/744	250	73.8	75.9	74.0	73.9	73.2	72.0	70.8	69.1	67.0	63.0	63.3	63.4	63.4	63.1	65.0	63.2	119.2
RUN 578	315	74.1	76.9	77.4	77.5	76.2	75.5	73.9	72.5	70.6	69.5	68.4	65.7	66.7	64.5	65.3	66.3	122.5
TAPP A780	400	72.4	73.7	74.7	73.8	73.7	72.1	70.5	68.9	68.1	67.0	66.8	66.0	64.8	63.2	64.2	63.9	119.7
BAR 28.9 HG	500	73.3	75.7	74.5	74.6	73.0	72.0	69.3	69.1	67.7	69.1	65.8	64.2	64.2	66.0	65.1	66.7	119.6
(97716: N/M2)	630	77.9	79.0	78.3	78.0	78.1	76.5	75.0	73.3	72.3	70.3	70.4	68.5	68.4	67.5	67.2	69.1	123.9
TAHR 74: DEG F	800	77.8	79.1	80.0	80.1	78.1	77.3	76.6	74.3	72.2	72.3	72.1	70.1	69.2	66.1	69.1	70.5	125.1
(296: DEG K)	1000	80.9	84.6	85.1	83.0	80.2	80.4	78.2	78.1	74.0	73.2	72.3	71.1	71.3	68.4	68.1	71.2	127.9
THET 61: DEG F	1250	81.0	84.1	83.2	83.3	81.4	82.2	80.1	78.5	75.9	75.3	72.1	72.7	72.2	70.4	69.3	71.0	126.7
(289: DEG K)	1500	79.8	81.7	82.9	83.0	81.0	82.3	80.8	79.3	75.9	73.9	72.1	70.3	71.0	69.0	68.1	70.9	128.6
HACT 9.60 GH/M3	2000	81.0	84.2	84.2	84.5	84.6	85.6	84.2	81.9	78.3	75.6	74.3	73.9	73.4	71.4	70.5	74.3	131.4
(.00960 KG/M3)	2500	84.3	87.8	86.6	85.8	85.8	85.8	83.7	82.1	79.8	70.9	73.9	72.0	73.0	70.7	69.6	73.1	132.3
NFA 65.7: RPM	3150	9.9	9.2	9.4	9.4	88.4	88.7	89.1	87.7	82.2	79.7	76.2	74.6	76.2	7.6	7.5	74.5	136.6
(.682: RAD/SEC)	4000	89.8	95.0	92.9	91.0	92.4	91.2	89.7	88.2	85.1	80.5	77.3	76.3	77.6	73.1	73.3	77.3	138.5
NFK 64.5: RPM	5000	94.0	95.1	91.3	94.4	95.5	93.8	92.1	88.5	88.6	84.5	8.7	78.9	76.7	76.9	76.9	76.2	140.8
(.673: RAD/SEC)	6300	87.3	92.7	91.7	87.7	88.0	86.8	85.7	82.8	79.8	75.7	73.7	71.8	72.9	68.8	68.7	70.6	139.2
NFD10628: RPM	8000	88.6	90.4	88.9	86.7	87.8	86.9	85.5	81.9	80.0	75.7	72.6	71.0	71.0	68.3	68.8	69.7	135.0
(1113: RAD/SEC)	10000	85.6	89.0	86.1	85.9	85.3	85.1	83.9	80.3	77.7	74.1	70.9	68.4	68.2	66.0	66.3	68.9	134.0
NO. OF BLADES 44	12500	81.5	84.8	82.0	82.9	81.0	81.2	78.8	76.1	74.7	70.0	66.0	65.3	64.0	62.4	63.2	66.0	131.2
	16000	78.1	82.3	78.8	77.6	77.9	77.7	76.1	72.8	75.6	70.4	64.8	66.0	65.9	64.9	64.6	69.6	130.3
	20000	72.5	78.3	72.9	72.8	71.9	72.9	70.7	69.1	74.6	69.8	65.8	67.0	66.3	65.0	66.9	70.0	129.6
OVERALL MEASURED		98.5	101.0	99.0	99.2	98.2	98.2	96.7	94.3	92.9	90.0	88.0	85.3	86.3	85.1	86.2	85.2	
OVERALL CALCULATED		98.8	101.7	99.6	99.3	98.6	98.7	97.4	94.9	92.9	89.6	86.8	85.1	85.1	83.1	83.2	84.7	146.3
PNOB		112.7	115.2	113.4	113.3	113.6	112.7	111.2	108.7	107.1	103.7	101.2	99.1	99.1	97.1	97.1	98.6	

	ANGLES FROM INLET IN DEGREES (AND RADIAN)															PWL	
	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°		150°
FREQ. (0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	71.8	73.7	69.8	71.8	73.0	71.0	69.8	70.0	68.0	70.9	69.1	69.1	68.0	69.0	69.0	66.8	119.7
63	71.2	69.0	75.9	71.3	78.4	78.4	78.4	69.9	64.2	78.0	79.4	67.3	66.4	63.3	67.3	65.2	124.0
80	61.7	63.5	61.9	62.7	61.9	61.8	62.5	62.1	59.5	61.9	62.8	62.2	61.7	61.2	60.0	59.0	111.5
RADIAL 100: FT. (30: M)	100	66.9	66.9	65.3	67.8	69.3	64.1	64.8	67.0	64.9	65.9	65.0	63.2	66.4	65.3	69.1	115.9
VEHICLE AIT	125	65.0	67.2	64.4	65.2	65.6	63.7	64.1	64.3	62.3	62.3	61.3	61.5	64.4	62.4	64.3	113.4
CONFIG APP	160	61.7	62.0	62.9	63.2	63.4	62.1	62.8	62.0	59.9	60.0	60.3	61.2	61.1	61.4	60.3	111.4
LOC PTO	200	67.9	69.6	68.7	68.8	67.2	66.3	65.6	64.4	62.1	63.4	61.2	60.1	60.4	62.4	59.9	114.1
DATE 8/5/74	250	73.9	76.7	75.0	74.1	73.3	72.3	71.5	69.2	67.9	69.2	64.0	63.2	63.4	63.5	65.4	119.6
RUN 579	315	74.2	76.9	77.2	76.1	77.6	74.6	72.8	71.5	72.1	70.5	67.4	65.5	65.7	64.5	64.7	122.3
TAPE A/80	400	72.5	74.4	73.6	74.0	73.8	72.1	70.6	69.0	67.7	66.8	65.9	66.0	65.1	62.2	63.2	119.6
BAR 28.9 HG	500	73.4	75.7	73.9	74.6	73.0	72.1	72.6	69.0	68.6	69.0	64.9	65.2	64.1	63.8	64.2	119.9
(97716: N/M2)	630	78.0	80.1	78.3	79.4	79.4	76.5	74.9	74.4	72.2	71.4	71.2	67.7	68.3	67.5	68.3	124.6
TAMP 74: DEG F	800	78.8	79.8	80.3	80.0	78.4	77.1	76.6	73.0	71.9	71.3	70.3	68.4	70.3	67.4	68.2	124.9
(296: DEG K)	1000	79.9	84.1	84.0	83.3	80.4	80.1	79.9	77.0	74.8	73.1	72.2	72.2	71.6	69.3	68.6	128.0
THET 6.1: DEG F	1250	80.1	82.0	83.0	83.1	81.4	82.5	80.8	79.4	75.9	74.2	73.0	73.4	73.4	71.3	70.2	126.8
(289: DEG K)	1500	80.1	82.0	82.1	82.2	81.2	81.3	80.7	79.2	75.8	73.2	71.9	70.2	71.2	68.9	69.1	128.2
HACT 9.60 GH/M3	2000	81.1	84.3	84.2	84.2	83.6	83.4	82.3	80.7	78.3	74.4	73.5	71.7	72.8	70.4	70.4	130.3
(.00960 KG/M3)	2500	83.6	86.8	86.9	85.7	85.1	85.2	82.5	81.8	78.8	75.7	73.8	71.1	72.8	70.8	70.1	131.7
NFA 6602: RPM	3150	88.3	91.4	91.5	88.5	87.7	87.4	88.2	86.6	81.3	78.6	74.5	73.8	75.6	71.6	71.7	135.5
(.691: RAU/SEC)	4000	90.8	94.0	93.0	90.3	91.1	89.5	87.8	86.2	84.1	79.4	76.3	75.2	76.4	72.0	72.0	137.5
NFK 6509: RPM	5000	93.5	94.2	91.5	93.4	93.9	91.7	90.1	88.8	87.8	82.7	80.5	78.8	76.5	76.7	75.3	139.4
(.681: RAU/SEC)	6300	86.7	92.4	89.7	86.7	87.1	85.1	84.4	81.6	79.0	73.9	72.7	70.1	72.7	68.0	67.6	134.2
NFD 10628: RPM	8000	87.5	89.8	87.9	86.0	86.9	85.9	84.5	79.9	78.8	74.8	71.0	69.0	69.9	67.0	66.9	134.0
(1113: RAU/SEC)	10000	84.7	89.0	85.8	85.0	84.3	83.4	82.7	79.2	76.0	72.0	69.1	67.2	68.0	65.1	65.0	133.0
NO. OF BLADES 44	12500	80.6	83.7	81.0	80.9	80.3	80.2	77.4	75.1	73.9	69.8	65.8	64.2	63.7	63.4	62.0	130.2
	15000	77.5	81.3	77.4	76.5	77.5	76.5	74.3	71.5	70.3	69.6	64.8	65.9	65.8	66.7	65.4	129.7
	20000	72.8	78.5	72.9	72.0	72.9	71.2	70.7	68.1	74.9	70.2	65.1	67.3	67.9	66.1	65.7	129.6
OVERALL MEASURED		97.7	100.8	98.9	98.3	98.1	97.4	95.6	93.0	92.2	88.9	87.3	86.4	85.7	84.3	85.2	145.3
OVERALL CALCULATED		98.0	100.9	99.4	98.4	98.5	97.2	96.0	93.6	92.2	88.7	89.9	84.6	84.9	83.0	82.6	145.3
PND8		112.1	114.4	113.4	112.5	112.7	111.1	109.8	107.5	106.4	102.5	100.3	98.7	98.5	96.9	96.2	97.7

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
FREQ.	50	71.6	73.8	70.9	72.9	73.2	72.1	69.9	70.2	68.8	71.1	69.1	68.2	70.2	69.1	57.1	120.1	
	63	71.7	68.8	76.1	71.2	79.5	76.1	69.7	65.2	77.9	78.3	67.1	66.6	63.5	68.3	65.1	57.0	123.7
RADIAL 100: FT:	80	61.6	63.6	61.6	62.8	61.9	62.8	62.4	61.9	59.7	62.8	63.0	61.2	59.7	62.0	60.0	54.8	111.5
( 30: R)	100	67.9	67.8	65.9	66.9	70.0	65.3	65.0	66.5	64.9	66.2	67.1	63.2	67.3	66.3	69.2	58.9	116.4
VEHICLE ALT	125	66.0	68.9	65.5	66.5	66.3	65.4	64.7	65.6	63.5	65.2	65.1	63.9	64.7	64.7	65.3	58.5	114.9
CONFIG APP	150	62.0	62.7	63.9	63.2	63.4	62.1	62.6	62.3	59.1	61.1	60.3	61.5	62.0	61.3	60.4	58.2	111.6
LOC PTD	200	68.1	69.8	68.9	66.8	68.1	66.3	63.5	64.2	62.6	63.2	61.9	60.2	59.9	62.3	59.9	59.8	114.3
DATE 8/5/74	250	74.6	76.8	74.9	73.8	74.0	72.2	71.6	70.0	67.9	65.1	64.0	63.4	62.4	64.1	65.0	64.2	119.8
RUN 580	315	75.0	76.9	77.2	76.5	76.6	75.3	72.9	72.5	70.3	69.5	67.4	65.5	66.5	64.7	64.7	66.2	122.2
TAPE A/80	400	72.4	73.7	73.9	73.8	73.7	72.1	70.6	69.0	67.7	66.0	66.0	65.4	64.8	62.9	62.9	63.8	119.4
BAR 28.9 HG	500	72.5	74.5	74.7	73.7	72.9	71.8	70.6	68.9	67.8	66.8	65.0	64.9	64.1	64.2	65.0	66.9	119.5
(97716: N/M2)	630	77.1	80.0	79.4	79.3	78.5	76.3	76.0	73.2	73.2	71.3	69.4	68.5	69.3	67.4	68.2	70.3	124.5
TAMB 74: DEG F	800	77.9	80.9	81.0	79.3	78.4	77.3	75.9	74.1	72.1	71.2	70.1	68.2	69.1	67.2	67.0	71.2	124.9
(296: DEG K)	1000	79.1	81.0	83.0	81.1	81.4	81.4	81.0	77.0	76.1	74.3	73.3	72.2	72.1	69.4	69.2	72.0	128.1
THET 61: DEG F	1250	81.2	84.0	83.2	83.1	82.2	81.7	80.8	78.5	75.9	74.3	73.3	73.3	72.0	71.1	69.3	73.2	128.8
(289: DEG K)	1500	81.0	82.7	82.1	82.3	80.4	80.1	79.9	77.2	73.8	72.0	71.2	70.1	70.2	69.3	67.9	70.0	127.5
HACT 9.60 GM/M3	2000	81.3	84.1	84.4	84.3	83.6	83.4	81.1	79.5	76.3	73.4	72.5	71.5	72.3	69.3	69.6	73.0	129.9
(.00960: KG/M3)	2500	83.7	87.8	86.6	84.8	84.1	83.8	81.7	80.2	77.7	74.8	73.0	71.1	72.0	69.0	69.0	71.7	130.9
NFA 6699: RPM	3150	87.3	91.0	91.2	87.5	86.6	85.6	85.2	84.6	79.5	76.2	73.4	72.5	74.4	71.4	71.5	73.2	133.8
( 701: RAD/SEC)	4000	89.1	92.8	92.9	88.1	88.5	88.4	85.8	84.2	82.0	77.8	75.0	74.5	75.1	78.4	78.3	79.0	135.6
NFK 66.4: RPM	5000	92.3	95.2	91.3	91.4	91.8	89.5	88.3	84.6	85.4	81.8	77.7	75.6	75.7	75.6	74.7	73.6	137.7
( 691: RAD/SEC)	6000	89.5	90.7	88.6	84.7	85.1	84.0	82.6	80.1	77.5	78.1	72.0	70.1	70.9	66.9	66.9	68.8	132.6
NFD 06.8: RPM	8000	85.7	88.7	85.9	84.7	84.9	83.9	82.6	78.8	76.2	72.9	69.8	67.9	68.9	65.8	66.0	66.8	132.3
(1113: RAD/SEC)	10000	83.6	87.0	83.9	82.0	82.2	81.1	80.7	77.3	74.7	71.2	68.0	66.2	67.4	64.1	64.1	65.1	130.9
NO. OF BLADES 4	12500	79.6	82.8	80.1	79.0	78.3	77.9	74.7	73.1	72.9	69.0	64.1	64.3	62.9	61.3	62.8	64.1	128.3
	15000	76.1	80.4	75.3	74.8	74.6	73.8	72.1	70.7	74.5	69.5	65.5	67.7	66.5	65.1	65.5	67.6	128.0
	20000	71.5	76.4	70.9	70.0	71.1	70.1	68.4	67.3	75.8	69.1	66.1	67.3	67.0	65.0	66.9	67.8	128.9
OVERALL MEASURED		96.6	99.7	98.2	97.0	97.0	95.4	93.9	92.3	91.6	89.2	86.2	85.4	85.9	85.4	85.3	84.0	
OVERALL CALCULATED		97.1	99.8	98.4	96.9	97.2	95.8	94.3	92.6	90.6	87.5	84.9	83.8	84.2	82.4	82.2	83.5	143.9
PNDH		111.3	113.5	112.5	111.0	111.6	109.6	108.3	105.9	104.6	101.1	98.6	97.0	97.6	96.1	95.6	97.0	



	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PHL
FREQ.	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	72.5	74.4	71.3	72.4	72.9	71.9	69.9	70.1	67.7	70.9	68.8	69.4	67.7	70.2	68.5	58.4	119.9
63	71.3	68.5	78.6	70.8	79.2	76.1	69.8	64.1	77.7	79.0	68.0	66.7	63.2	68.6	65.8	58.7	123.8
RADIAL 100: FT. (30: M)	80	62.0	64.4	63.2	62.5	61.3	61.9	61.4	61.6	59.2	62.5	62.8	60.5	59.6	62.1	59.2	111.2
VEHICLE ALT CONFIG APP	100	69.3	69.6	67.5	67.6	71.0	65.1	64.8	64.2	62.8	64.8	64.8	64.5	67.7	65.4	68.6	116.1
LOC PTO	125	69.8	71.0	68.0	67.0	66.3	64.4	65.0	63.5	63.9	64.3	64.0	65.5	64.2	63.4	65.2	114.8
DATE 8/5/744	160	61.5	61.7	64.5	62.6	63.8	62.1	63.0	62.0	59.8	61.1	60.7	61.7	62.0	61.2	59.9	111.7
RUN 581	200	67.3	69.8	69.9	66.8	67.9	66.3	66.8	65.1	62.8	66.8	61.1	60.6	60.8	62.2	61.0	114.6
TAPE A780	250	74.2	77.8	76.9	74.5	74.1	73.0	73.0	71.3	68.9	66.8	63.9	63.7	62.9	64.2	65.7	120.7
BAR 28.9 HG (97716: N/M2)	315	73.4	76.9	76.9	75.5	76.1	74.0	73.0	71.3	69.9	68.8	66.0	64.9	64.8	64.4	64.7	171.5
TAMP 74: DEG F (294: DEG K)	300	70.4	72.6	73.5	71.7	71.8	71.2	69.7	67.9	66.6	65.1	64.9	64.8	64.9	63.1	62.9	118.4
TNET 6: DEG F (284: DEG K)	500	68.4	72.7	72.4	71.6	71.7	69.9	69.7	67.1	65.7	64.9	64.6	64.5	64.6	64.0	63.5	118.0
HACT 9.60 GM/H3 (.00960 KG/H3)	600	73.6	77.9	79.9	78.9	78.4	75.4	75.1	72.5	72.0	70.2	70.1	68.8	69.1	67.7	66.8	124.0
NFA 6874: RPM (720: HAU/SEC)	800	74.2	76.9	77.6	76.0	73.8	75.0	73.8	71.3	67.7	70.1	68.7	67.8	66.6	65.4	65.7	122.2
NFK 6777: RPM (710: HAU/SEC)	1000	76.8	74.2	79.2	77.0	75.3	77.2	76.3	73.5	71.1	70.3	69.9	70.1	69.1	67.3	66.9	123.9
NFD 86.8: RPM (1113: HAU/SEC)	1200	77.5	80.8	80.7	79.7	78.0	77.3	76.7	74.0	72.2	72.1	69.7	69.9	70.7	69.4	67.9	125.3
NO. OF BLADES 44	1600	76.7	80.3	79.9	78.8	77.4	77.1	76.2	73.4	71.2	70.3	69.0	68.9	67.9	68.2	66.9	124.6
OVERALL MEASURED	2000	78.7	81.4	81.0	79.2	78.5	78.5	77.0	75.2	72.5	70.4	70.3	68.9	70.0	68.6	68.1	125.7
OVERALL CALCULATED	2500	79.7	83.7	83.6	81.1	79.9	80.2	76.0	75.1	73.8	70.6	69.0	69.4	69.9	68.1	67.8	127.0
	3000	83.8	85.9	86.2	82.9	81.4	79.7	81.3	79.6	75.0	72.1	68.3	69.1	70.2	67.7	67.2	129.3
	4000	84.4	89.0	88.0	83.0	83.0	81.5	81.3	79.2	77.3	72.0	70.8	71.9	68.2	69.0	72.0	130.8
	5000	86.7	88.3	85.4	86.3	85.6	82.5	81.7	78.6	81.2	76.2	75.4	74.1	72.1	73.8	72.3	131.9
	6000	80.1	86.6	84.2	79.5	79.4	77.6	78.7	74.0	70.8	68.7	67.7	67.4	68.0	64.9	64.8	127.6
	8000	80.5	83.5	81.7	78.2	78.8	77.0	75.6	71.7	70.7	67.8	65.6	65.3	64.6	62.9	63.6	126.4
	10000	77.2	81.8	78.6	76.3	75.6	74.8	73.9	70.8	69.7	67.0	64.7	65.5	64.9	62.2	62.5	125.2
	12000	73.5	77.5	74.6	72.7	71.8	71.0	68.9	67.3	69.0	65.0	62.7	63.5	62.8	61.1	61.1	123.0
	16000	70.6	77.1	71.2	69.0	69.4	68.5	67.4	65.5	72.0	68.4	64.1	68.0	65.0	66.7	65.2	124.9
	20000	68.0	74.3	67.7	65.3	67.7	65.8	65.5	64.0	73.4	69.5	65.4	68.4	66.5	66.7	66.4	127.4
	25000	92.3	95.6	93.7	92.3	91.9	90.4	91.1	89.2	87.1	87.1	86.2	85.9	85.1	84.3	85.8	84.0
	30000	92.5	95.8	94.7	92.4	92.8	90.5	89.6	87.3	86.8	85.0	82.4	82.3	81.9	81.3	80.7	82.7
PRODB	106.6	109.9	109.0	106.5	106.0	104.0	103.4	101.3	100.2	97.4	96.0	95.4	94.9	94.5	93.7	95.1	139.5

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100: FT.	50	70.2	74.4	71.6	72.4	73.0	71.0	70.7	69.8	67.7	70.7	69.1	68.6	67.8	70.1	68.7	58.5	119.8
	65	71.5	68.8	76.5	70.8	79.3	76.1	76.9	64.2	77.0	78.9	67.0	66.1	62.6	67.2	64.8	58.7	124.7
	80	59.9	63.4	62.4	62.3	61.7	61.7	63.6	61.7	59.2	61.6	61.8	60.1	59.3	61.2	59.1	55.5	111.1
VEHICLE CONFIG	100	67.3	67.4	66.8	67.0	69.9	64.9	65.8	67.2	64.6	65.5	65.7	63.6	57.8	66.0	68.8	60.7	116.3
LOC PTO	125	65.8	68.1	67.0	66.1	68.2	65.2	65.4	66.5	64.2	64.1	64.4	62.8	64.2	64.6	65.2	60.9	114.9
DATE 8/5/74	165	60.5	61.7	63.7	62.8	63.3	61.9	63.9	62.0	59.5	60.1	60.7	61.5	60.8	61.3	59.6	59.7	111.5
RUN 582	200	67.3	69.9	69.8	66.6	68.1	66.3	66.0	65.1	61.9	62.9	61.8	60.6	59.7	62.4	60.0	60.7	114.9
TAFE A78U	250	74.3	76.7	75.8	74.7	74.2	73.5	73.1	70.0	67.7	68.1	64.1	63.7	63.1	64.3	64.7	65.0	120.4
BAR 26.9 HG	315	73.6	78.0	77.9	76.9	77.4	74.9	74.2	73.0	70.8	69.1	67.2	65.1	64.9	64.3	65.0	66.7	122.6
TAMR 73: DEG F	400	72.5	73.9	75.4	73.5	74.3	71.8	71.0	69.2	67.7	65.8	65.9	64.9	64.8	63.0	62.9	64.8	119.7
(97729: N/M2)	500	71.4	74.8	75.6	72.6	73.0	71.1	70.9	68.9	68.0	66.9	65.7	64.5	64.8	65.1	64.7	68.5	119.6
(296: DEG K)	630	77.7	79.3	80.4	79.0	79.3	76.9	77.1	74.3	72.8	71.4	70.2	68.6	69.1	67.2	67.1	71.1	124.9
TWET 60: DEG F	800	78.7	81.9	81.9	78.8	78.4	77.3	76.8	74.1	71.9	71.1	69.9	69.6	69.1	67.4	67.7	71.9	125.3
(289: DEG K)	1000	77.9	81.4	81.0	81.3	80.8	80.4	79.5	76.4	74.9	73.1	72.3	71.9	71.0	70.4	68.8	72.1	127.3
NFA 6700: RPM	1200	79.6	84.0	82.7	81.7	81.1	81.4	80.3	78.3	74.9	72.8	72.9	72.8	71.7	70.3	69.0	72.9	128.2
(1113: RAD/SEC)	1500	79.7	82.3	83.0	82.0	82.3	80.3	80.2	77.2	73.8	72.2	71.2	70.0	69.9	69.4	67.9	70.8	127.6
NFK 66: RPM	2000	80.8	84.4	84.3	83.0	82.3	82.3	81.4	79.4	75.1	74.1	72.0	71.1	71.2	69.1	69.0	73.8	129.3
(10628: RPM)	2500	83.6	87.0	86.8	84.7	84.0	84.1	81.8	80.2	76.5	74.1	72.8	70.8	71.6	70.2	69.0	72.5	130.8
(1113: RAD/SEC)	3000	86.9	90.4	91.0	86.2	86.5	85.3	85.5	84.5	79.1	76.1	73.4	72.1	73.9	70.3	70.0	73.1	133.8
NFD 10628: RPM	4000	88.6	93.1	92.2	87.7	88.6	87.1	86.2	84.1	81.1	77.2	75.2	74.7	75.0	71.1	71.0	75.7	135.4
(1113: RAD/SEC)	5000	91.1	92.6	90.5	91.1	91.4	88.7	88.6	84.8	85.1	80.6	77.7	76.2	75.4	75.4	74.3	74.3	137.2
NO. OF BLADES 44	6000	89.2	90.7	89.7	88.9	88.9	83.6	82.8	80.0	77.2	72.5	71.5	69.4	70.6	66.9	66.7	69.4	132.7
OVERALL MEASURED	8000	85.3	88.6	86.4	83.4	84.8	83.0	82.0	78.0	76.5	72.8	68.8	68.6	68.5	64.9	65.8	67.5	131.9
OVERALL CALCULATED	10000	83.3	86.9	84.7	81.9	82.0	81.1	79.8	76.8	74.4	70.7	67.8	67.6	66.5	64.4	63.9	67.5	130.8
PROC	12000	79.2	83.0	81.0	78.5	77.1	76.9	75.7	73.2	71.1	68.7	64.7	63.7	63.7	63.2	62.0	66.9	128.2
	16000	75.8	80.4	78.9	74.9	74.4	74.2	72.4	70.4	68.1	65.1	63.4	63.0	63.6	63.2	62.4	67.3	129.0
	20000	71.2	77.6	71.6	70.2	69.8	69.6	68.5	66.8	65.5	63.4	60.7	60.7	64.0	67.3	71.5	129.0	
		96.4	99.8	98.6	96.7	96.4	95.0	95.3	91.8	90.6	88.2	86.2	86.6	86.0	85.3	85.0	84.8	
		96.4	99.7	98.9	96.3	96.6	95.1	94.5	91.9	90.2	87.3	84.7	83.7	83.7	82.4	81.9	84.4	143.7
		110.4	113.6	112.9	110.4	110.8	109.0	108.5	105.8	104.2	100.8	98.5	97.3	97.3	96.1	95.3	97.7	

REPRODUCIBILITY OF THE ORIGINAL DATA IS POOR

MODEL SOUND PRESSURE LEVELS (BY, DEG, F, 70 PERCENT REL, HUM, DAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
FREQ.	50	71.2	73.3	71.3	71.6	73.0	71.1	71.7	70.0	68.3	71.6	68.6	70.4	67.7	69.1	73.7	74.6	120.9
	63	72.6	68.5	76.8	70.9	79.3	77.3	70.0	65.4	77.9	78.8	68.1	66.9	63.1	68.2	72.9	70.6	124.0
RADIAL 100: FT.	80	64.9	64.1	65.3	63.3	61.7	62.0	63.6	61.8	66.4	63.4	62.6	66.2	60.6	60.8	70.7	77.1	116.9
(30: M)	100	70.3	69.7	70.7	67.6	71.0	65.0	66.0	65.3	72.5	66.0	66.6	69.7	67.8	65.2	70.0	64.7	118.3
VEHICLE AIT	125	70.5	70.0	73.0	67.7	66.4	65.3	69.3	65.3	66.9	67.0	66.9	70.0	65.2	65.5	67.1	65.8	117.5
CONFIG APP	160	65.2	62.6	65.5	62.6	63.9	62.9	62.8	62.0	70.5	60.8	60.5	63.7	60.9	64.0	70.8	71.5	115.8
LOC PTO	200	68.6	71.8	71.8	67.6	68.1	67.3	66.9	65.6	69.9	63.1	63.9	63.8	59.7	64.1	67.0	67.9	116.8
DATE 8/5/744	250	74.6	78.9	76.7	74.5	74.1	73.3	72.8	71.1	69.9	67.0	66.0	64.6	62.8	65.1	68.0	75.8	121.5
RUN 583	315	74.4	77.6	77.8	76.8	77.3	75.2	74.1	72.3	70.7	70.0	68.0	67.7	65.9	65.4	66.1	69.6	122.7
TAPE A/B0	400	71.4	74.6	74.5	73.4	73.1	72.2	71.0	69.2	66.9	66.8	69.7	66.7	65.6	64.9	64.7	65.7	119.9
BAR 20.9 HG	500	70.2	73.6	74.3	72.2	72.8	71.1	70.7	68.1	70.4	69.7	69.5	70.6	65.6	67.1	68.8	67.5	120.3
(97729: N/M2)	630	76.8	80.0	79.9	77.7	78.6	76.2	76.2	74.6	73.8	71.3	71.9	68.8	68.9	69.3	68.2	71.1	124.7
TAHR 73: DEG F	800	74.5	78.1	79.0	76.5	77.5	78.2	76.8	74.1	70.7	70.9	70.0	68.7	68.6	69.4	67.8	72.6	124.4
(296: DEG K)	1000	78.9	81.4	82.1	78.8	78.6	79.5	79.4	77.5	73.8	73.2	72.1	72.1	71.2	70.3	69.3	71.9	126.7
TWET 60: DEG F	1250	80.6	82.1	82.9	80.9	80.2	79.4	79.0	77.1	73.9	72.1	71.7	71.8	71.0	70.4	69.1	71.6	127.1
(289: DEG K)	1600	78.7	81.0	80.8	80.7	79.2	79.4	78.1	75.5	73.7	71.0	70.3	68.8	68.5	67.1	70.8	126.3	
MACH 0.52 GM/MS	2000	79.7	83.2	83.3	81.9	81.5	81.5	79.5	77.6	73.9	72.4	71.0	70.1	70.2	68.4	65.9	73.1	128.1
(.00952 KG/MS)	2500	81.6	85.9	84.8	82.5	82.2	82.5	79.1	77.0	75.6	72.1	71.0	70.8	70.9	69.1	68.7	71.8	128.5
NFA 6819: RPM	3150	85.6	87.3	87.9	83.9	83.6	82.4	82.2	80.8	76.2	74.1	70.3	70.9	72.2	67.7	68.1	71.1	130.6
(714: RAD/SEC)	4000	86.5	90.9	89.8	84.9	85.4	83.7	83.3	81.4	78.0	74.1	72.1	72.0	68.4	70.0	73.7	132.7	
NFK 6729: RPM	5000	88.9	89.4	88.0	88.2	87.8	84.7	84.5	80.6	81.2	77.6	76.1	76.0	73.2	74.8	73.4	72.2	133.8
(705: RAD/SEC)	6000	83.0	88.6	86.5	81.3	81.9	80.0	78.8	77.0	74.3	70.7	69.6	68.2	69.3	64.8	64.7	67.5	129.7
NFD 628: RPM	8000	83.3	89.4	83.5	81.3	81.8	79.9	78.7	73.7	72.5	70.8	66.0	65.7	65.6	63.8	63.6	65.5	128.6
(1113: RAD/SEC)	10000	79.6	83.8	80.8	78.6	78.2	77.1	75.8	73.2	71.5	68.7	65.9	65.7	65.6	62.3	62.6	64.6	127.1
NO. OF BLADES 44	12000	76.5	79.7	77.4	75.5	73.9	74.1	71.9	69.3	70.6	66.7	62.8	62.8	62.8	61.0	61.7	64.5	129.1
MEASURED	16000	72.7	76.9	72.9	71.1	71.4	70.7	69.2	67.7	74.9	68.4	64.5	67.1	65.2	64.4	65.3	67.9	126.1
CALCULATED	20000	68.3	74.2	68.1	68.3	66.7	67.9	67.8	65.0	75.9	70.5	65.6	65.3	65.5	64.0	65.8	68.2	128.1
OVERALL		94.7	96.7	96.6	93.5	94.0	92.1	91.9	90.1	88.2	85.8	85.9	84.9	84.1	88.8	89.8		
MEASURED		94.6	97.4	96.6	94.0	94.0	92.7	91.7	89.4	88.4	86.0	83.8	83.9	82.6	82.0	83.2	85.6	141.1
CALCULATED		108.7	111.6	110.8	108.2	108.1	106.1	105.5	103.2	101.8	98.8	97.3	97.2	95.5	95.5	95.3	97.3	

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL, HUM, DAY)  
 PROC. DATE - MONTH 8 DAY 21 HR. 14.9  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	71.2	73.4	71.4	71.6	72.9	71.1	69.9	70.1	67.3	70.9	68.8	69.7	67.8	70.2	68.7	57.5	119.7
	63	71.3	68.6	75.9	70.6	79.3	78.1	68.9	63.4	77.1	79.1	66.8	65.7	62.8	65.3	64.9	58.8	123.6
RADIAL 100: FT.	80	60.2	63.1	62.6	61.3	61.7	61.7	62.5	62.0	58.4	61.9	62.5	60.4	60.3	60.8	59.6	55.3	111.0
(30: M)	100	66.3	66.4	65.6	66.7	69.3	64.0	69.2	67.1	63.9	65.1	64.9	62.8	66.9	64.0	66.8	58.8	115.5
VEHICLE ALT	125	64.4	66.8	65.2	65.0	65.3	64.3	64.2	64.3	61.8	62.4	61.3	62.2	64.0	62.6	64.0	58.8	113.4
CONFIG APP	150	60.3	61.7	63.5	62.4	62.9	62.4	62.9	62.3	58.6	60.0	60.7	60.5	61.6	61.2	59.6	59.0	111.3
LOC PTD	200	67.4	69.7	68.7	66.6	68.2	66.2	66.0	64.4	61.7	62.9	61.1	60.7	60.0	62.2	59.7	60.0	114.3
DATE 8/5/74	250	73.5	76.5	75.9	73.8	73.9	73.2	72.0	70.3	67.7	66.1	63.8	63.9	62.0	64.3	63.2	64.8	120.1
RUN 584	315	74.3	77.4	77.6	76.5	77.2	75.2	74.0	72.1	70.9	70.1	68.0	65.9	65.0	64.3	64.7	66.7	122.9
TAPP A/B0	400	72.3	74.6	75.7	73.4	74.0	72.0	70.8	69.0	67.9	67.0	65.8	66.7	64.8	63.1	62.9	64.8	119.8
BAR 28.9 HG	500	72.2	75.3	76.7	74.3	73.0	73.1	71.8	69.9	66.4	69.7	65.8	65.9	65.6	65.1	64.6	66.7	120.3
(9729: N/M2)	630	77.8	80.7	80.9	79.9	79.2	76.2	76.3	74.6	73.0	72.0	69.9	69.0	70.0	67.2	67.3	71.1	125.1
TAMP 73: DEG F	800	79.3	80.7	82.0	80.6	78.4	77.3	77.1	74.2	72.6	71.1	71.7	69.6	69.0	67.4	68.1	72.6	129.6
(29A: DEG K)	1000	80.7	83.1	85.9	83.9	81.3	82.3	80.3	80.1	76.9	75.2	73.7	73.8	73.7	72.2	69.1	72.6	129.4
THEY 60: DEG F	1250	80.6	82.9	83.7	82.9	82.1	82.3	82.3	80.1	76.9	75.2	73.7	73.8	73.7	72.2	69.1	72.6	129.4
(289: DEG K)	1500	60.8	62.8	63.9	62.8	60.3	82.2	81.1	78.5	76.0	74.1	72.0	72.0	70.9	69.5	68.9	71.7	126.7
HACT 9.5: GM/H3	2000	81.9	84.8	86.1	85.1	84.4	84.5	83.3	81.6	78.2	75.1	73.9	72.8	73.2	70.6	70.0	75.2	131.2
(00952: NG/H3)	2500	84.6	87.7	87.6	86.6	85.1	86.2	85.1	81.5	78.7	75.6	73.7	72.5	72.9	71.1	69.9	73.6	132.3
NFA 6599: RPM	3150	88.8	90.7	92.2	87.9	88.3	87.6	87.1	86.4	81.0	78.5	75.3	73.9	76.0	71.4	70.2	74.2	135.4
(691: RAD/SEC)	4000	89.7	93.7	93.8	89.8	91.1	89.4	89.0	86.2	84.0	79.1	77.1	76.7	76.1	72.1	72.9	76.7	137.5
NFK 6512: RPM	5000	92.8	94.3	92.2	92.9	94.4	91.7	90.3	89.8	87.0	82.6	80.4	79.0	76.1	76.7	75.1	75.1	139.4
(682: RAD/SEC)	6300	86.0	92.2	90.3	86.3	86.7	84.9	83.8	82.0	79.4	74.4	72.5	70.9	71.6	67.9	67.6	69.4	134.1
NFU 628: RPM	8000	97.2	89.4	88.6	85.6	86.7	85.0	83.5	81.0	78.5	74.5	71.5	69.4	69.4	66.8	66.7	68.5	133.7
(1113: RAD/SEC)	10500	84.3	87.4	86.5	83.7	84.2	83.1	81.9	79.8	76.7	71.9	69.0	67.6	67.1	65.2	63.7	68.0	132.6
NO. OF BLADES 44	12500	81.5	84.5	81.8	79.6	80.0	79.2	77.0	74.2	73.5	69.1	65.2	64.7	63.8	63.2	62.6	67.0	129.7
	15000	78.9	80.9	77.9	75.8	79.8	75.3	74.1	71.8	74.1	68.4	63.5	67.2	66.2	65.4	67.1	70.2	128.8
	20000	71.0	77.4	72.5	71.4	71.6	70.8	70.6	68.0	74.5	68.5	63.6	68.7	66.6	65.9	66.4	71.3	129.1
OVERALL MEASURED		97.8	100.7	99.7	98.0	98.1	96.4	96.2	93.5	92.0	90.0	87.1	86.8	86.1	85.1	86.0	85.7	132.6
OVERALL CALCULATED		97.8	100.7	100.2	98.1	98.7	97.3	96.1	93.5	91.9	88.6	86.2	85.3	84.8	83.1	82.4	85.0	132.6
PROB		111.8	114.2	114.3	112.3	113.0	111.3	110.0	107.4	106.0	102.5	100.4	99.2	98.3	97.0	95.9	98.4	145.3

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
RADIAL 100: FT.	50	71.2	73.7	71.7	72.6	72.9	71.7	70.7	71.1	67.6	70.9	68.8	69.6	67.7	70.0	69.9	57.5	120.1
( 30: M)	63	71.5	68.7	76.6	70.6	79.2	75.8	70.3	64.2	77.7	79.5	66.8	65.8	61.8	66.1	64.9	56.7	123.9
VEHICLE AIT	80	61.3	63.3	62.3	62.6	61.6	62.6	63.5	63.0	59.5	62.8	62.6	61.4	59.5	61.8	59.4	56.6	111.7
CONFIG APP	100	65.3	65.7	67.7	67.7	58.7	63.2	65.8	68.0	64.9	69.3	64.9	61.9	65.8	64.2	66.8	57.9	115.0
LOC PTD	125	63.9	66.9	66.0	64.9	64.3	63.1	64.4	64.6	61.3	62.6	61.3	62.2	64.1	61.6	64.0	59.0	113.3
DATE 8/9/74	160	61.4	61.6	64.6	62.6	62.8	62.1	63.8	62.1	58.5	61.1	60.9	60.3	60.6	60.3	59.9	58.6	111.4
RUN 585	200	66.8	69.6	69.8	67.7	66.8	65.9	65.9	65.1	61.7	63.9	61.9	60.9	60.0	62.2	60.2	60.1	114.4
TAPE A780	250	73.4	75.9	74.9	73.6	73.1	72.1	72.1	69.3	67.7	66.0	63.8	64.0	63.0	63.4	65.0	65.0	119.6
BAR 28.5 HG	315	73.5	77.8	77.9	76.9	77.2	74.8	73.1	71.9	70.7	70.1	68.0	66.8	64.9	64.3	64.9	56.9	122.4
(97729: N/M2)	400	72.2	74.6	74.7	73.6	73.9	72.3	71.0	70.2	67.6	66.9	66.9	67.7	64.8	63.2	62.9	65.9	119.9
TAMP 73: DEG F	500	72.4	75.7	76.4	74.6	75.0	73.9	70.6	69.1	68.6	65.9	65.6	66.4	65.5	65.9	63.6	66.5	120.6
(295: DEG K)	630	78.8	80.1	80.9	78.9	80.2	77.3	76.1	75.9	72.8	72.1	70.2	69.1	68.1	67.4	67.0	71.1	125.3
THET 60: DEG F	800	78.5	80.7	81.0	81.5	80.0	78.3	79.1	75.3	72.6	71.9	71.0	69.9	69.8	67.4	67.3	72.9	126.3
(289: DEG K)	1000	81.0	84.8	85.9	83.7	82.1	81.2	80.3	78.5	74.8	74.3	73.0	72.1	73.2	69.3	69.1	72.8	129.0
HACT 9.52 G/M3	1250	80.5	83.7	84.7	83.8	83.2	83.9	83.1	81.3	77.7	76.2	73.9	73.6	72.6	72.1	71.7	73.6	130.4
(100952 KG/M3)	1500	80.1	82.0	83.1	84.0	83.3	82.3	81.2	79.5	76.0	73.9	72.8	70.8	71.8	69.5	69.0	72.0	129.1
NFA 6516: RPM	2000	81.8	84.2	85.2	84.1	85.1	85.8	83.3	81.6	78.1	75.4	73.3	71.8	72.9	71.6	71.1	75.4	131.2
(682: RAD/SEC)	2500	84.7	87.7	87.9	86.5	85.9	85.8	83.9	82.2	78.8	75.2	73.9	72.5	72.9	71.3	70.9	73.8	132.5
NFX 6430: RPM	3150	90.0	92.9	92.2	89.2	89.2	88.3	88.4	87.7	81.7	79.7	75.1	74.9	77.2	72.6	72.2	74.9	136.4
(673: RAD/SEC)	4000	89.7	94.9	93.7	90.7	92.0	91.2	89.2	87.5	84.9	80.6	78.1	77.7	77.9	73.4	72.7	78.0	138.4
NFU 06.8: RPM	5000	93.8	95.3	93.0	94.0	95.6	93.5	91.5	87.8	88.4	83.7	81.2	79.2	77.4	77.8	76.2	77.0	140.7
(1113: N U/SEC)	6500	87.3	92.3	91.3	87.5	87.5	89.7	85.5	83.0	80.2	75.6	73.4	72.2	72.6	69.9	67.6	70.5	135.0
NO. OF PLACES 44	8000	88.4	93.3	89.7	86.6	87.9	86.8	85.8	81.1	79.4	75.8	71.7	70.6	70.6	68.0	68.4	69.6	135.1
OVERALL CALCULATED	10000	85.4	88.8	87.6	85.6	85.9	84.8	83.7	80.5	77.7	73.7	69.9	66.5	67.8	66.4	65.9	68.5	134.1
MEASURED	12500	61.7	54.8	83.5	91.9	82.1	90.9	78.9	76.1	74.8	70.8	65.6	64.7	64.1	63.5	63.9	66.7	131.4
PROH	16100	77.7	82.3	85.0	77.9	78.7	77.4	75.1	72.6	75.8	69.7	63.3	66.9	63.1	65.5	66.2	70.8	130.5
	20000	72.4	78.3	74.2	73.4	72.9	71.5	70.6	69.9	75.2	70.6	62.3	67.3	65.3	66.0	67.5	72.1	129.9
		97.5	100.9	100.9	98.9	99.0	98.0	96.9	94.2	91.3	90.0	88.1	86.7	86.8	85.1	85.7	86.0	
		98.6	101.5	100.6	99.0	99.8	98.5	97.1	94.8	92.8	89.6	86.5	85.6	85.4	83.5	83.1	85.7	146.3
		112.6	115.1	114.4	113.1	114.1	112.5	111.0	108.5	107.0	103.4	100.8	99.5	99.4	97.4	95.8	99.4	

MODEL SOUND PRESSURE LEVELS (DB, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL	
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
VEHICLE ALT	93	69.3	72.7	70.6	70.7	72.1	70.8	69.7	69.1	70.7	70.0	66.9	67.4	66.7	68.1	67.8	56.7	119.1
VEHICLE APP	63	71.6	68.5	75.8	70.7	76.2	75.9	70.3	64.3	78.1	79.6	67.3	65.6	61.8	66.1	64.7	55.8	124.0
LOC PTD	80	62.1	63.4	61.6	61.1	61.6	62.7	62.7	61.9	71.9	62.7	64.8	63.5	63.6	60.9	59.4	59.3	114.4
DATE 8/5/74	100	65.5	66.7	68.7	66.5	67.9	62.2	65.8	66.0	72.6	63.0	62.9	63.5	67.7	65.2	63.8	57.5	116.6
RUN 586	125	63.9	67.0	65.1	63.8	64.4	63.5	63.1	62.3	69.9	61.5	60.3	61.8	63.9	60.8	63.1	58.3	114.0
TAPE A780	160	60.4	61.6	64.5	62.6	62.9	61.9	63.8	61.3	59.6	60.2	60.0	60.5	60.6	60.0	58.7	57.6	111.2
BAR 28.9 HG	200	66.6	68.8	68.6	66.0	68.2	67.0	66.0	64.4	68.8	64.0	63.3	60.6	60.0	63.2	60.1	59.6	115.3
(97733: N/M2)	230	72.3	75.7	74.6	73.5	73.1	72.2	71.7	69.3	69.7	64.4	62.9	62.9	61.8	63.1	64.1	64.0	119.5
TANK 73: DEG F	315	72.3	74.7	75.7	74.6	76.0	74.1	72.9	71.3	68.9	69.3	66.8	63.8	63.8	63.3	63.7	65.9	121.1
(296: DEG K)	300	70.5	72.8	73.6	72.9	72.8	71.8	70.0	69.0	66.0	65.9	65.6	64.6	65.0	63.1	63.6	64.6	118.9
TWET 6.1 DEG F	380	71.2	74.4	73.6	71.4	71.0	71.1	69.0	68.1	67.0	63.8	63.8	63.4	62.6	62.9	62.6	65.9	118.2
(289: DEG K)	330	76.9	78.3	78.9	77.7	78.5	75.3	75.2	72.5	70.9	69.4	69.2	67.8	67.0	66.4	65.8	69.8	123.6
HACT 9.68 LM/H3	300	76.4	80.8	81.0	80.0	78.1	77.0	77.1	73.3	71.1	70.2	70.0	68.6	68.0	66.1	67.8	71.9	125.0
(.00955: KG/M3)	1000	80.7	84.9	86.1	83.9	81.2	79.7	79.2	75.2	73.9	72.4	72.0	72.0	70.2	69.6	69.0	71.1	128.3
NFA 8294: RPM	3150	81.5	84.1	83.7	81.9	81.1	81.3	81.3	78.3	74.6	74.2	71.8	71.8	71.8	71.2	67.5	71.9	128.6
(.659: RAD/SEC)	4000	79.9	82.0	84.0	83.0	82.4	83.5	82.2	78.3	70.0	73.3	72.9	70.9	70.9	70.4	68.0	71.9	129.3
NFK 6214: RPM	2500	81.8	84.2	85.1	84.3	84.7	83.4	81.6	78.6	75.6	74.1	72.1	71.9	71.9	71.6	69.8	74.1	131.1
(.651: RAD/SEC)	3000	84.5	88.0	88.8	87.5	86.0	85.9	84.2	82.5	78.9	77.3	74.7	72.8	73.6	71.5	69.9	73.8	132.8
NFD 628: RPM	800	91.0	94.0	93.8	90.1	89.5	88.4	89.4	88.3	82.9	80.5	77.3	75.1	77.2	72.6	71.9	76.0	137.2
(.113: RAD/SEC)	1000	91.4	96.1	95.0	92.0	93.1	92.0	90.1	88.5	85.7	81.6	79.2	77.9	78.1	74.4	73.9	78.7	139.4
NO. OF BLADES 44	12500	94.0	95.4	94.0	95.2	96.5	94.7	92.5	88.6	89.4	84.8	82.3	80.2	77.2	78.1	76.7	77.0	141.6
OVERALL MEASURED	800	87.9	93.3	91.1	87.6	88.8	86.9	85.8	83.9	80.6	75.8	73.6	72.2	72.3	68.9	68.5	70.6	135.6
OVERALL CALCULATED	1600	89.2	91.3	91.5	88.4	89.1	87.6	86.8	83.0	81.7	77.8	73.7	71.4	71.6	68.7	68.5	71.5	136.3
PND6	2000	86.4	89.7	89.7	86.8	86.9	85.8	84.9	82.1	79.6	74.9	71.6	69.4	68.9	66.9	65.9	69.5	135.1
	12500	82.0	85.8	84.4	83.5	82.9	81.9	81.1	78.2	76.5	72.1	67.8	65.5	64.7	65.0	62.7	66.6	132.7
	1600	78.8	82.8	80.0	78.8	78.5	78.4	78.0	74.2	76.0	72.2	65.3	67.9	65.0	66.5	65.2	68.8	131.1
	2000	73.7	79.2	75.2	74.1	73.7	73.4	71.3	69.5	77.1	71.7	65.4	69.0	67.2	68.7	66.2	69.1	131.0
		98.6	101.6	100.8	98.9	100.1	99.3	97.9	95.1	93.7	90.1	88.1	86.9	86.9	85.5	85.8	86.0	
		99.2	102.3	101.4	99.9	100.5	99.2	97.8	95.3	93.7	90.2	87.3	85.7	85.2	83.8	82.7	85.4	147.1
		112.8	115.9	115.2	113.9	114.6	113.2	111.6	108.9	107.2	104.0	101.6	99.6	99.2	97.8	98.8	99.5	

MODEL SOUND PRESSURE LEVELS (SV, DEG, F, 70 PERCENT REL. HUM. DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PNL	
	0.0°	10.0°	20.0°	30.0°	40.0°	50.0°	60.0°	70.0°	80.0°	90.0°	100.0°	110.0°	120.0°	130.0°	140.0°		150.0°
REQ. 90	70.1	72.7	70.7	70.6	71.7	70.1	88.9	69.2	66.6	69.9	67.6	67.4	66.5	68.2	67.8	56.0	110.6
63	71.3	67.7	75.9	70.6	79.0	75.9	70.1	64.2	70.9	79.1	66.8	65.8	60.8	66.2	64.0	56.0	123.5
RADIAL 100: FT. (30: M)	80	61.8	63.3	62.3	60.2	60.8	61.7	60.0	62.6	58.6	62.5	62.5	60.4	59.3	59.9	59.6	110.8
VEHICLE AIT CONFIG APP	100	65.5	66.5	66.0	66.5	67.1	63.0	63.8	67.1	64.7	64.1	64.7	67.9	65.2	65.7	56.5	115.3
LOC PTO	125	63.6	66.8	65.3	64.0	64.1	63.6	63.1	63.5	61.1	62.1	60.3	62.1	63.9	61.8	63.2	112.8
DATE 8/5/74	160	60.4	61.8	64.0	62.6	63.1	61.9	62.7	61.3	58.8	60.1	59.8	60.5	60.6	61.2	58.8	111.1
RUN 587	200	68.1	70.8	70.2	67.8	68.1	67.0	65.9	64.2	62.9	69.1	62.0	62.6	60.0	62.2	59.7	119.0
TAPE A780	315	72.5	75.9	77.2	75.7	75.9	73.2	72.1	71.3	68.8	68.1	66.9	64.9	63.9	63.3	63.8	121.2
BAR 28.9 HG	400	70.5	72.4	74.0	72.5	73.0	71.1	69.7	68.1	66.0	65.0	64.8	64.8	62.1	61.9	63.5	118.6
(97733: N/M2)	500	71.4	75.7	76.7	74.5	75.6	74.0	72.7	69.0	66.7	66.7	65.9	65.8	63.5	64.0	62.8	120.8
TAMP 73: DEG F	600	77.9	79.1	80.4	79.0	79.2	76.5	76.3	74.3	72.1	71.3	70.0	69.0	67.9	67.6	67.0	124.7
(296: DEG K)	800	77.7	80.7	82.9	81.0	79.1	77.3	78.0	76.1	72.8	72.1	71.7	68.6	70.0	67.3	67.9	126.1
TWET 60: DEG F	1000	81.5	85.8	87.1	84.1	81.4	81.3	80.2	77.8	74.8	74.1	72.1	72.7	73.0	70.7	69.2	129.2
(289: DEG K)	1200	80.8	82.8	84.0	83.8	83.1	83.4	82.0	78.7	76.0	75.2	74.0	73.7	71.9	71.5	70.9	129.7
MACT 9.62 GM/MS	1600	80.8	82.8	84.0	83.8	83.1	83.4	82.0	78.7	76.0	75.2	74.0	73.7	71.9	71.1	70.6	129.6
(.00966: KG/MS)	2000	82.0	85.1	85.8	84.9	85.2	86.2	84.4	81.6	79.1	76.1	75.0	72.9	73.2	71.7	71.0	131.9
NFA 6480: RPM	2500	84.7	88.7	87.8	86.8	86.2	86.1	83.9	81.3	79.0	76.0	74.7	72.8	72.9	71.4	70.7	132.0
(698: RAD/SEC)	3000	91.8	92.2	93.1	89.8	89.2	88.6	88.1	86.3	82.1	79.3	75.3	75.0	75.9	72.4	71.2	136.4
NFK 6318: RPM	4000	98.6	95.7	94.8	90.8	92.0	90.4	90.1	87.2	85.0	79.3	78.1	77.8	77.2	73.1	72.9	138.6
(562: RAD/SEC)	5000	94.1	95.3	92.0	94.0	94.7	93.4	91.3	86.9	88.2	82.6	80.4	78.3	76.1	76.9	76.2	140.2
NFD10628: RPM	6000	87.2	92.5	91.1	87.2	87.8	85.9	85.4	83.0	79.8	74.5	73.6	72.2	71.6	68.0	67.5	134.9
(1113: RAD/SEC)	8000	87.5	91.3	89.2	86.4	87.8	86.9	84.8	81.1	79.4	75.8	72.6	71.3	69.6	67.0	67.6	135.0
NO. OF BLADES 49	10000	86.5	89.4	87.3	85.7	85.0	84.0	83.0	80.3	77.4	72.7	69.6	68.7	67.8	66.2	65.6	133.7
OVERALL MEASURED	12000	81.8	84.7	83.7	81.8	81.1	81.4	79.0	75.8	74.5	71.0	65.8	64.5	64.7	63.0	62.5	131.2
OVERALL CALCULATED	16000	78.8	82.0	78.7	78.0	77.4	77.4	75.0	72.5	72.7	69.3	64.0	66.0	64.9	64.8	66.2	130.1
PNDR	20000	73.0	78.0	73.9	72.2	71.6	71.9	70.5	68.5	75.2	70.4	63.2	67.3	64.2	65.8	67.5	129.6
	25000	98.0	100.9	100.9	98.6	99.2	98.2	97.2	94.4	92.7	88.9	87.9	86.9	85.7	85.6	85.7	146.2
	30000	98.9	101.9	100.9	99.1	99.4	98.4	97.1	94.1	92.7	88.9	86.5	85.5	84.8	83.4	82.8	146.2
		112.8	115.6	115.0	113.1	113.5	112.5	110.8	108.6	106.0	102.6	100.6	99.3	98.7	97.3	96.6	

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PHL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	70.2	72.7	70.6	70.7	72.0	70.0	68.8	69.2	66.7	70.8	67.6	68.3	66.6	67.8	67.6	67.5	118.8
63	71.5	68.6	75.9	70.7	79.4	75.9	70.3	63.2	77.0	79.3	66.1	65.6	61.8	66.4	64.9	56.7	123.8
80	60.1	62.3	61.3	61.1	60.6	60.9	60.8	60.6	58.3	61.7	61.5	59.2	59.6	59.5	59.1	54.2	110.1
100	66.4	66.5	66.0	67.6	68.8	63.9	64.2	64.3	62.9	69.1	65.9	63.6	66.7	64.4	67.7	58.0	115.3
125	64.5	67.8	65.3	65.0	65.3	63.4	63.3	63.4	62.1	62.2	62.0	62.8	64.0	62.4	63.7	59.3	113.3
160	60.5	61.8	64.6	62.5	63.1	62.2	63.0	62.9	59.8	61.9	62.0	61.8	61.8	61.2	59.4	58.5	111.8
200	68.3	70.5	69.8	67.9	68.2	66.2	65.9	64.0	62.0	64.0	62.1	60.9	59.0	62.6	59.5	60.6	114.6
250	73.4	76.7	75.5	74.6	74.2	72.9	72.8	70.3	67.7	68.0	64.0	63.9	62.8	64.3	64.5	65.7	120.3
315	73.3	76.6	76.8	75.7	76.2	74.0	73.8	72.3	69.9	69.2	66.0	64.9	64.8	63.2	63.9	65.7	121.7
400	71.2	72.8	73.8	72.5	72.1	70.1	69.7	68.2	66.6	66.0	64.1	64.5	63.7	63.3	62.7	64.7	118.4
500	72.4	75.5	76.7	74.4	73.7	72.0	71.9	69.2	67.9	65.9	64.8	66.6	63.8	65.4	63.7	66.5	120.2
630	76.8	78.9	80.1	79.0	79.3	77.2	77.0	75.3	72.8	71.1	71.1	69.0	69.1	67.5	67.8	70.9	125.1
800	76.3	81.0	81.1	79.5	79.1	78.1	77.1	75.4	71.9	70.9	70.8	69.6	69.7	66.4	66.8	72.6	125.5
1000	78.6	82.2	83.3	81.4	80.4	81.3	81.0	77.4	75.1	73.2	74.0	73.0	71.9	70.4	68.1	72.8	128.0
1250	79.8	84.0	83.8	81.9	81.0	81.4	81.1	78.3	75.9	73.9	72.1	72.5	71.9	71.3	68.9	71.8	128.5
1600	79.8	82.1	83.1	81.9	81.0	81.4	81.0	77.2	74.0	73.0	71.2	70.7	70.1	69.3	67.7	71.0	127.9
2000	80.8	84.2	84.9	83.1	82.6	82.4	82.2	80.5	76.1	73.3	72.3	70.9	71.2	69.4	69.1	73.8	129.7
2500	83.4	86.9	86.7	83.6	83.3	84.5	81.1	79.4	76.0	74.0	72.0	70.6	72.0	70.3	68.9	72.5	130.5
3150	86.6	90.2	89.2	85.9	85.6	84.6	84.2	83.4	78.2	75.3	72.3	72.1	73.0	69.6	69.1	71.9	133.0
4000	87.7	92.1	92.0	87.0	88.2	86.1	85.9	83.5	80.8	76.0	73.1	73.7	73.0	69.4	71.0	74.8	134.9
5000	91.0	92.4	89.3	90.1	90.4	88.4	86.3	82.6	83.3	79.3	77.4	76.1	74.0	74.7	73.3	73.3	136.1
6300	84.1	90.4	88.2	83.3	83.9	82.9	81.6	78.5	76.9	71.6	70.5	69.4	69.4	65.9	65.7	68.5	131.8
8000	85.0	87.6	86.3	82.6	83.8	81.9	80.6	77.0	75.1	71.8	68.7	67.5	66.7	65.0	65.4	67.5	131.0
10000	82.4	86.5	83.4	81.4	81.2	80.0	78.0	75.8	73.6	70.8	66.8	66.4	65.6	64.0	62.5	66.6	130.0
12500	78.5	82.5	79.6	77.4	76.8	76.0	74.9	72.0	71.9	68.0	63.8	62.6	62.6	63.1	61.8	66.8	127.3
16000	75.4	79.9	76.1	73.7	73.4	73.9	71.2	68.6	74.7	70.3	63.2	66.2	64.9	67.3	65.9	69.8	127.6
20000	70.1	76.2	71.3	69.3	68.5	69.4	67.6	66.6	74.3	67.7	63.5	67.0	65.2	67.8	67.0	72.1	128.1
OVERALL MEASURED	95.7	98.9	98.0	95.6	96.4	94.4	93.2	91.2	90.6	88.3	86.8	85.6	85.9	85.4	86.0	84.7	
OVERALL CALCULATED	96.0	99.3	98.3	95.8	96.0	94.8	93.7	91.2	89.9	86.9	84.3	83.7	83.1	82.1	81.4	84.0	143.0
PROB	110.2	112.9	112.6	109.9	110.1	108.6	107.5	105.0	103.2	100.1	98.1	97.2	96.1	95.5	94.6	97.0	

REPRODUCIBILITY OF THE ORIGINAL DATA IS POOR



		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	71.2	73.7	71.4	71.6	72.0	71.1	69.9	69.8	67.9	70.7	68.6	68.6	68.0	69.0	67.7	67.4	119.4
	63	70.6	67.9	75.8	70.7	79.2	76.1	69.3	63.4	77.6	79.1	67.1	65.6	62.9	66.1	63.8	56.9	123.7
RADIAL 180: FT.	80	61.0	63.5	61.4	61.3	61.6	60.6	60.8	60.7	59.3	61.7	61.5	59.3	60.4	59.8	59.2	54.3	110.4
( 30: M)	100	67.5	67.7	66.5	66.6	70.2	66.1	64.2	64.3	63.7	67.8	65.9	62.3	67.9	65.2	68.6	58.7	116.2
VEHICLE AIT	125	65.8	67.8	65.9	64.9	66.3	65.2	64.4	64.3	63.9	67.4	65.2	63.1	66.2	64.1	64.9	59.1	115.0
CONFIG APP	150	66.5	62.6	63.8	62.5	63.8	62.0	62.9	62.3	60.5	62.9	61.9	61.8	61.9	62.0	59.6	58.6	112.0
LOC PTD	200	67.6	71.6	70.6	68.7	69.0	67.2	67.1	66.3	62.6	64.4	61.9	60.9	59.8	62.4	61.0	60.8	115.5
DATE 8/5/744	250	74.4	77.8	77.6	75.7	75.3	74.0	74.1	71.3	69.0	67.3	64.1	64.0	62.7	65.3	66.9	66.7	121.5
RUN 589	315	72.5	76.5	77.5	77.0	77.0	75.0	73.1	72.0	69.8	69.1	66.8	65.6	64.8	64.3	65.7	65.9	122.2
TAPF A/80	400	69.5	71.8	72.7	71.7	71.8	70.2	68.8	67.3	65.4	65.0	65.0	64.5	64.0	63.1	62.9	64.5	117.9
BAR 28.7 HG	500	70.3	72.6	73.6	71.7	70.9	70.9	68.8	67.9	64.7	65.1	63.6	63.5	63.9	64.1	62.9	65.5	118.0
(97733: N/M2)	630	73.7	78.1	79.1	78.3	77.3	74.3	75.0	72.6	71.0	70.5	68.2	66.8	69.0	66.5	67.1	63.9	123.4
TAMR 73: DEG F	800	73.7	76.7	76.9	75.8	75.2	74.0	75.1	73.0	68.9	70.0	68.7	67.6	67.1	66.2	67.9	71.6	122.5
(296: DEG K)	1000	76.8	78.9	79.9	78.0	77.3	78.5	78.3	74.3	72.1	72.2	72.2	70.8	69.1	67.3	68.0	71.8	125.2
THET 60: DEG F	1250	78.5	80.7	81.7	79.7	79.2	78.0	78.0	76.4	73.6	72.1	71.8	70.8	70.8	70.4	69.9	73.9	126.3
(289: DEG K)	1500	77.7	81.0	80.8	78.9	78.4	77.1	76.9	73.4	71.0	69.9	69.1	69.8	70.0	68.5	68.0	70.0	125.1
HACT 9.60 GM/M3	2000	78.7	82.1	82.2	80.12	79.4	78.5	78.3	76.6	73.1	71.9	70.3	69.1	71.8	68.5	68.2	72.1	126.6
(.00960 KG/M3)	2500	80.5	84.6	83.7	80.6	79.1	80.4	76.8	75.2	73.8	70.6	69.7	68.8	70.0	68.3	67.9	70.8	127.1
NFA 6738: NPM	3150	83.7	86.9	86.2	82.0	80.6	80.4	80.2	78.7	75.1	72.2	68.3	68.9	70.0	67.4	68.0	69.0	129.0
( 705: RAD/SEC)	4000	84.5	89.8	87.7	82.7	83.1	81.3	81.2	78.4	75.7	72.1	70.8	71.7	70.8	68.2	68.9	72.6	130.6
NFK 6652: NPM	5000	87.1	88.1	85.1	85.2	85.6	82.4	81.5	78.7	80.0	75.1	74.4	74.0	73.2	73.7	72.3	71.3	131.0
( 696: RAD/SEC)	6300	80.1	86.5	83.5	79.2	79.6	77.6	76.7	73.8	72.2	68.4	67.5	66.4	67.7	64.0	64.6	66.5	127.3
NFD 6.8: RPM	8000	81.5	83.3	81.3	78.1	78.7	76.6	76.7	72.0	71.3	68.6	64.7	64.4	64.6	63.2	63.5	65.4	126.4
(111: RAD/SEC)	10000	78.2	81.7	78.6	75.5	75.6	74.7	73.8	71.1	69.5	65.8	64.6	64.4	64.7	63.1	61.5	63.7	125.0
NO. OF BLADES 44	12500	74.4	77.7	74.7	72.3	71.7	71.6	69.8	67.3	69.5	65.9	62.0	62.6	62.0	63.0	61.8	63.5	124.1
OVERALL MEASURED	15000	70.7	76.3	70.8	68.6	69.3	69.1	67.0	65.3	72.8	68.9	63.2	66.9	65.0	66.5	64.1	67.9	124.7
OVERALL CALCULATED	20000	66.9	74.0	67.4	66.3	67.6	66.0	66.5	62.9	74.2	69.2	64.7	67.0	65.5	67.5	67.6	67.2	127.2
		93.4	95.7	94.0	91.7	92.2	91.1	90.9	89.2	87.6	87.0	85.8	84.9	85.3	85.4	85.7	82.9	
		92.8	96.2	94.7	92.1	92.1	90.6	89.9	87.4	86.8	85.1	82.4	82.0	82.1	81.3	81.1	82.6	
		106.9	110.4	108.9	106.0	106.1	104.0	104.5	101.1	100.1	97.0	95.7	95.2	95.1	94.5	93.9	95.4	139.6

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 29 HR. 15.8

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN'S)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	69.6	72.5	75.1	71.4	71.4	70.4	69.3	68.2	67.2	70.4	67.4	68.3	66.6	67.8	67.8	55.8	118.7	
	63	71.7	68.9	75.9	70.9	79.3	76.2	69.3	62.0	77.5	79.9	67.1	60.1	61.9	65.3	65.5	56.2	124.0
RADIAL 100. FT. ( 30. M)	80	60.3	62.4	61.2	61.5	61.7	60.8	60.7	60.2	58.4	61.6	61.5	59.4	59.4	59.6	59.0	53.0	110.2
VEHICLE ATT	125	66.5	65.8	66.8	67.5	68.9	63.8	64.6	65.4	63.7	64.7	65.7	64.7	66.7	64.2	68.3	57.1	115.9
CONFIG APP	160	64.7	68.1	66.1	65.0	64.9	64.3	64.0	62.7	61.5	58.5	60.7	60.1	61.8	60.8	61.0	59.3	111.2
LOC PTO	200	67.6	70.6	69.7	67.8	68.2	66.1	66.0	64.0	61.9	63.8	61.9	60.9	60.1	62.3	60.4	60.0	114.6
DATE 08/05/74	250	73.7	77.0	76.0	74.6	73.9	72.9	72.2	69.9	67.9	65.1	64.2	64.9	62.9	64.0	66.2	65.1	120.2
HUN 590	315	72.6	76.0	76.7	75.0	75.9	73.9	72.8	70.0	69.7	69.2	67.0	64.9	63.6	63.1	65.5	65.4	121.4
TAPE A780	400	70.6	72.6	72.8	72.6	71.9	70.9	70.0	67.5	66.6	66.0	65.0	64.0	63.1	62.0	63.1	63.2	118.3
SAR 20.9 HG	500	72.4	75.9	77.9	76.5	75.7	74.8	75.7	70.3	69.4	66.6	66.1	65.0	64.9	64.6	65.1	67.6	122.1
(97746. N/M2)	630	76.1	78.2	82.5	79.1	79.2	78.2	78.3	74.7	72.9	72.0	70.1	69.0	70.8	66.5	66.8	69.0	125.3
TAMP 72. DEG F	600	76.6	79.9	79.8	78.7	79.0	77.2	76.9	74.5	72.6	71.1	70.9	70.3	68.8	66.3	68.4	72.4	125.0
(295. DEG K)	1000	79.0	82.0	83.2	81.9	82.2	82.4	83.3	78.0	76.9	76.3	73.1	74.0	73.2	70.5	69.5	73.0	129.3
THET 61. DEG F	1250	81.0	85.6	84.0	82.9	82.2	82.2	82.2	79.6	76.8	75.8	72.8	73.9	73.9	72.1	69.2	73.0	129.5
(289. DEG K)	1600	80.1	82.2	83.1	81.1	81.4	81.4	80.3	77.0	74.7	73.9	72.0	71.3	71.4	69.2	68.6	70.5	128.2
MACT10.54 GM/M3	2000	81.2	84.2	84.1	83.9	83.2	83.4	81.2	79.1	76.9	73.4	72.4	71.0	72.3	69.5	70.7	72.5	129.7
(01054 KG/M3)	2500	83.7	87.0	87.0	84.5	84.2	84.2	81.9	79.9	76.9	73.7	71.9	72.1	72.1	70.2	69.1	71.9	130.9
NFA 663n. RPM	3150	87.2	89.8	90.4	86.1	86.2	84.6	85.1	83.1	79.3	76.1	72.4	72.0	74.1	69.7	69.7	72.3	133.3
( 694. RAD/SEC)	4000	87.8	92.7	91.7	86.6	87.9	85.9	85.6	82.7	80.7	75.7	73.7	74.6	74.0	59.9	70.4	74.5	134.7
NFK 694R. RPM	5000	91.0	91.3	90.0	90.0	91.2	87.3	86.0	82.2	83.9	79.2	77.6	76.4	74.2	74.4	73.7	72.5	136.1
( 686. RAD/SEC)	6000	85.2	90.2	88.5	84.1	84.5	82.8	81.7	78.2	76.4	72.6	70.4	69.6	70.4	66.6	66.7	68.5	131.9
NFD1062R. RPM	8000	85.5	87.5	85.4	83.2	84.3	82.7	81.4	77.3	76.0	72.5	69.3	68.6	67.3	64.5	66.0	67.4	130.2
(1113. RAD/SEC)	10000	82.2	86.3	83.3	81.5	81.7	80.5	79.4	76.0	74.1	70.4	67.6	66.6	66.7	64.8	63.7	65.0	127.7
NO. OF PLATES 44	12500	79.4	82.0	80.4	77.5	77.6	76.6	74.7	72.2	71.1	67.7	64.6	64.7	63.4	63.9	62.9	64.0	127.5
	16000	75.4	79.7	75.9	73.5	73.7	73.5	71.7	69.2	73.5	69.7	64.7	66.5	65.5	66.7	65.4	67.6	126.5
	20000	70.2	76.0	71.2	69.5	69.9	69.9	68.5	66.3	73.4	69.0	64.8	67.5	66.6	68.4	66.1	67.7	
OVERALL MEASURED		96.1	99.0	97.9	96.7	96.2	95.0	94.2	91.5	90.7	88.2	87.2	86.1	86.3	85.3	86.3	83.3	143.2
OVERALL CALCULATED		96.3	99.2	98.4	95.0	96.5	94.6	94.1	91.0	89.9	87.4	84.4	84.2	83.9	82.1	82.0	83.5	
PRN:		110.3	113.7	112.5	110.1	110.7	108.3	107.7	104.5	103.7	100.3	98.3	97.5	95.4	95.1	96.0		

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT.	69.3	73.2	78.5	71.4	71.7	70.4	68.5	69.3	67.5	70.3	67.5	68.4	66.5	67.8	66.6	118.5		
(30. M)	63	70.9	68.8	75.9	69.9	78.9	76.2	69.8	62.8	77.7	79.2	67.1	66.2	65.3	65.4	66.4	123.7	
VEHICLE ATT	80	60.3	62.7	61.5	61.2	61.5	60.8	61.7	60.4	60.3	62.4	61.4	59.5	59.5	60.3	59.8	53.9	110.5
CONFID APP	125	66.8	67.6	66.5	66.5	69.0	64.8	64.6	64.5	63.0	66.7	65.6	63.0	66.7	65.2	69.0	56.8	115.7
LCC PFTD	160	65.7	68.8	66.1	65.8	66.2	65.3	65.1	64.0	63.0	65.2	65.1	63.2	65.3	64.4	64.6	58.4	114.7
DATE 10/05/74	200	60.8	62.6	64.6	62.7	63.1	62.8	62.9	61.7	59.6	60.9	60.9	61.7	61.8	62.0	60.1	58.1	111.7
RUN 391	250	67.9	70.6	70.1	67.6	67.8	67.0	66.6	65.5	62.7	63.9	62.8	61.0	60.9	62.1	61.2	60.1	115.0
TAPP A790	315	74.8	77.8	76.8	74.6	74.9	73.9	73.0	70.0	68.7	66.9	65.1	64.9	63.1	65.0	66.2	65.5	121.0
BAR 20.9 HG	400	73.1	75.8	77.7	75.8	77.0	74.1	72.7	71.7	70.8	69.2	66.7	64.9	64.9	64.3	66.2	66.1	121.6
(97746. N/M2)	500	70.6	71.9	73.3	71.6	72.0	70.9	69.0	67.5	65.9	64.7	63.9	64.0	64.8	63.0	63.1	64.3	118.2
TAMP 72. DEG F	630	70.8	73.4	74.8	71.4	70.7	70.1	68.0	67.4	65.9	64.9	64.8	65.0	64.7	63.9	64.2	67.2	118.2
(795. DEG K)	800	76.2	78.2	79.2	77.9	77.2	75.1	74.9	72.2	72.2	70.3	70.2	68.4	69.0	67.3	68.4	59.5	123.0
TWET 61. DEG F	1000	75.9	78.8	78.8	77.7	77.2	77.2	75.8	72.8	70.6	70.8	70.0	68.6	68.8	67.0	68.3	72.5	124.1
(289. DEG K)	1250	79.0	80.1	80.4	79.1	78.4	80.3	79.3	75.9	73.8	73.1	72.0	72.0	70.5	68.5	69.5	71.7	126.0
MACT 10.54 GM/M3	1600	79.7	82.8	83.8	82.0	80.2	80.2	80.2	79.8	76.9	73.9	73.1	72.9	72.2	71.3	70.1	73.1	127.0
(.01054 KG/M3)	2000	79.0	81.0	82.2	81.9	80.4	80.5	80.5	79.4	75.7	73.7	71.9	71.2	70.3	68.2	68.3	69.5	127.1
MFA 6735. RPM	2500	80.8	83.3	83.0	82.0	81.4	81.5	79.1	77.2	74.1	72.3	71.2	71.0	71.1	69.3	69.8	72.0	128.0
(705. RAD/SEC)	3150	81.7	84.0	84.8	82.6	81.1	82.0	78.8	77.7	74.4	72.1	71.0	70.1	71.2	69.0	69.0	70.9	128.7
MFK 6692. RPM	4000	86.0	88.0	88.4	84.1	83.4	82.4	82.2	80.6	76.0	73.0	70.3	70.3	72.4	68.3	68.6	70.2	130.9
(696. RAD/SEC)	5000	86.2	89.7	89.0	84.6	85.1	83.9	82.9	79.9	77.6	73.9	71.9	72.8	72.7	69.3	70.1	73.2	132.3
AFD10628. RPM	8000	89.1	89.1	87.1	88.3	88.2	84.5	83.3	80.0	82.1	77.3	75.4	75.5	73.5	73.2	73.7	71.6	133.7
(1113. RAD/SEC)	10000	89.1	88.2	86.6	81.2	81.7	79.8	79.6	76.2	74.2	70.3	69.5	68.7	65.6	66.0	67.8	129.0	
NO. OF BLADES 44	12500	83.3	85.3	83.3	80.2	80.7	79.5	78.3	74.3	73.4	70.3	67.4	66.7	64.5	65.7	65.8	128.5	
	16000	80.2	83.5	81.6	78.1	77.4	77.4	76.3	73.1	71.3	68.3	65.5	65.7	65.7	63.9	63.7	64.6	127.2
	20000	77.6	79.4	76.6	75.5	73.8	73.5	72.6	69.8	70.7	66.8	63.7	64.5	63.8	63.7	62.9	65.0	125.1
OVERALL MEASURED	16000	73.2	77.5	72.5	71.5	71.8	70.4	69.6	67.4	74.4	68.8	64.4	67.8	65.8	66.7	66.8	67.9	126.2
OVERALL CALCULATED	20000	69.7	74.6	68.5	68.3	68.6	67.6	67.6	65.0	72.4	67.7	63.5	66.7	66.6	68.0	68.1	70.0	127.4
PWDB	108.7	111.4	110.4	105.2	108.1	106.2	105.0	102.4	101.7	98.5	96.8	96.5	95.9	94.6	95.1	95.8	141.1	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 29 HR. 15.9

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PHL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(		
50	69.5	72.5	70.4	70.5	71.7	69.4	68.4	68.6	66.5	72.3	67.3	67.7	66.4	67.6	67.7	55.6	118.7	
63	71.7	67.6	75.0	70.5	79.3	75.8	69.9	63.0	77.7	78.9	66.7	66.1	60.9	66.1	65.2	56.2	123.6	
RADIAL 100. FT. (30. M)	80	60.6	62.3	61.5	60.1	60.8	60.5	60.6	61.1	58.4	63.5	61.6	59.6	58.7	58.9	61.0	53.9	110.4
VEHICLE ATT CONFIG APP	100	64.5	64.8	63.7	65.5	67.8	62.7	62.8	66.7	64.8	68.6	64.0	64.9	67.6	64.9	65.9	56.1	115.5
125	63.8	66.9	63.7	63.8	65.4	63.1	62.8	61.9	61.1	65.2	60.3	61.2	63.3	61.2	63.3	57.4	112.6	
160	59.8	61.6	63.5	62.5	62.8	62.0	62.8	61.4	58.5	62.9	59.7	60.6	60.8	60.3	59.3	57.2	111.2	
LOC PTD	200	66.9	69.6	69.6	66.8	67.1	66.6	65.7	63.8	61.0	67.0	62.2	61.1	60.8	62.1	60.4	60.1	114.7
DATE 08/05/74	250	73.6	75.7	74.8	73.9	72.9	71.9	71.6	68.5	66.9	65.1	63.9	62.8	62.1	63.1	64.5	64.1	119.5
HUN 592	315	72.7	75.7	76.9	75.6	75.9	73.9	71.9	69.8	68.6	68.2	66.2	65.1	63.9	63.0	64.4	65.1	121.0
TAPF 1780	400	70.6	72.6	72.8	71.9	71.6	70.9	69.7	67.6	66.7	65.0	66.0	64.0	64.1	61.9	63.0	63.2	118.2
WAR 78.9 HG (97746. N/M2)	500	71.5	73.5	75.4	75.3	74.8	72.7	70.7	67.4	68.4	67.7	64.7	64.7	62.6	63.8	65.9	65.8	120.1
630	77.0	78.0	77.0	77.2	76.2	76.4	74.7	73.1	71.8	70.1	69.3	67.1	67.1	66.5	66.3	69.5	123.5	
TAMB 72. DEG F (295. DEG K)	800	76.7	79.1	79.7	77.6	77.2	75.9	76.0	73.6	71.7	70.9	69.9	68.1	68.0	66.1	67.1	70.4	124.0
1000	80.3	84.6	86.9	82.9	79.5	79.5	78.9	76.1	73.9	72.1	71.3	70.4	70.3	68.5	68.4	70.4	128.0	
TMET 61. DEG F (289. DEG K)	1250	80.2	83.0	83.0	82.7	82.2	82.3	80.7	78.0	74.6	73.6	72.2	71.9	71.1	70.3	69.1	72.0	128.0
1600	79.9	81.9	84.0	83.0	81.3	82.3	81.6	78.1	75.0	72.9	72.1	70.9	71.3	69.4	68.3	70.5	128.0	
WACT 10.54 GM/M3 (.01054 KG/M3)	2000	81.2	84.2	85.3	83.9	83.1	84.4	84.2	81.1	76.2	74.2	73.5	71.6	72.4	69.5	69.7	73.5	130.8
2500	84.6	87.9	87.6	85.5	85.1	86.0	83.5	81.0	79.0	76.2	74.0	72.0	72.6	70.2	70.0	72.2	132.2	
NFA 6422. RPM (672. RAD/SEC)	3150	90.0	93.0	93.0	89.2	88.3	88.2	88.0	86.3	82.9	79.5	75.4	75.8	77.2	72.3	71.6	74.5	130.2
4000	90.7	94.5	93.6	90.5	92.0	90.9	89.7	86.5	84.6	80.1	77.0	77.6	76.9	72.1	74.0	77.0	138.1	
NFK 6343. RPM (684. RAD/SEC)	5000	94.4	94.9	93.0	94.0	95.5	93.5	90.0	86.8	88.0	83.6	80.5	79.2	76.2	76.4	75.4	75.5	140.4
6300	87.3	93.2	91.1	86.2	87.4	86.4	85.1	82.4	79.5	75.4	73.6	71.6	72.4	67.6	68.6	69.3	134.9	
AFD10628. RPM (1113. RAD/SEC)	9000	88.2	91.1	89.3	86.4	87.4	86.7	85.2	81.4	80.1	76.7	72.3	71.2	70.4	67.4	68.7	69.7	135.2
10000	85.5	89.2	87.2	85.4	84.7	84.5	83.1	79.5	77.1	73.5	70.4	69.4	68.6	65.6	65.7	68.8	135.7	
NO. OF BLADES 44	12500	82.4	85.4	83.6	82.4	81.5	80.7	78.5	76.5	75.2	70.4	66.4	65.4	64.4	64.8	64.7	65.0	131.3
16000	78.7	82.3	79.5	77.5	77.8	77.7	75.1	72.2	70.5	68.4	65.5	66.7	66.4	66.8	65.6	68.0	130.2	
20000	73.4	78.7	74.2	72.5	72.8	72.6	71.3	69.4	75.2	65.7	65.6	67.4	66.6	69.1	67.1	68.5	129.0	
OVERALL MEASURED	99.0	101.7	100.0	98.6	99.0	97.9	96.5	94.7	91.6	90.1	86.8	86.9	86.3	85.1	86.3	85.2	146.0	
OVERALL CALCULATED	98.9	101.0	100.7	98.7	99.4	98.4	96.3	93.7	92.6	89.2	86.0	85.2	84.8	82.7	82.9	84.3		
PNDR	112.8	114.9	114.5	112.6	113.6	112.4	109.9	107.4	106.7	103.2	100.3	99.2	98.7	96.6	96.8	98.3		

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	69.3	72.3	70.1	70.5	71.7	69.8	69.2	68.1	67.2	70.4	67.4	67.4	66.3	67.8	67.0	65.6	118.5
	63	70.7	67.1	75.5	69.9	79.3	76.2	68.7	63.9	77.1	79.2	67.0	65.9	66.9	66.2	64.1	66.3	123.6
RADIAL 100. FT.	80	61.3	62.4	61.5	61.3	60.5	60.5	60.2	60.4	58.2	61.8	62.7	60.5	59.7	59.7	59.7	63.8	110.4
(30. H)	100	65.4	66.6	66.6	65.5	65.6	61.9	64.6	65.4	63.7	62.7	62.6	63.9	67.9	64.1	65.3	65.9	114.6
VEHICLE ATT	125	63.0	66.2	64.9	63.8	63.9	62.1	62.1	62.6	59.7	61.0	59.9	61.0	63.4	61.4	63.7	68.4	112.0
CONFIG APP	160	61.6	62.6	64.4	62.6	63.6	62.1	62.4	61.5	58.6	60.1	59.0	61.0	60.8	60.2	59.3	67.2	111.1
LCC PTD	200	67.7	70.1	69.6	66.9	67.0	66.8	65.9	64.6	64.9	63.7	62.0	61.2	59.1	63.0	61.4	69.3	114.7
DATE 08/05/74	250	73.7	70.2	75.5	74.0	72.4	71.8	71.7	69.6	66.6	64.1	62.9	63.2	62.3	63.0	64.5	63.4	119.4
RUN 594	315	72.8	76.5	76.6	75.6	76.2	73.9	72.6	70.0	68.8	69.2	66.0	64.2	63.9	63.0	64.5	65.4	121.3
TAPE A78J	400	70.5	72.7	72.7	71.5	71.8	70.8	69.6	67.7	65.8	65.0	65.7	65.1	63.9	62.2	63.1	64.2	118.1
BAR 28.9 HG	500	72.7	76.7	75.3	73.5	71.8	71.7	69.9	66.6	66.5	64.9	63.6	63.4	62.0	61.9	62.0	65.9	118.4
(97746, N/M2)	630	77.1	79.3	78.9	78.3	78.1	75.4	74.9	72.8	71.2	69.3	68.9	68.1	67.3	66.2	65.7	69.6	123.6
TMR 72. DEG F	800	79.8	81.9	82.0	79.8	78.4	77.0	76.8	73.6	71.7	69.8	69.8	69.2	68.2	66.3	67.6	71.5	125.2
(795, DEG K)	1000	82.9	86.0	86.9	84.9	82.1	81.1	79.1	76.1	74.9	72.2	72.0	71.4	70.4	69.3	68.7	71.2	129.1
INLET 61. DEG F	1250	82.8	83.8	83.9	82.8	82.2	82.2	81.2	77.7	75.0	72.5	72.8	70.8	71.0	71.0	68.5	71.5	128.7
(289, DEG K)	1600	81.2	83.2	84.7	84.1	83.4	84.3	82.3	79.6	76.2	73.9	71.9	72.3	71.1	70.1	69.3	72.3	136.1
FACT 10.54 T4/M3	2000	81.3	84.5	84.7	85.0	84.4	85.3	83.0	81.1	78.0	75.0	73.9	73.2	72.0	70.3	70.3	74.3	131.1
(.01054 KG/H3)	2500	84.9	88.0	86.5	87.0	87.2	87.2	84.7	81.6	79.8	76.9	74.7	73.1	73.0	71.9	70.4	73.7	133.3
RFA 6316. RPM	3150	91.3	94.1	92.5	89.9	90.1	89.2	90.4	88.1	83.2	80.1	77.3	76.5	77.1	72.5	73.5	75.3	137.4
(661, RAD/SEC)	4000	91.5	96.0	94.9	91.5	92.9	91.7	90.6	87.5	85.7	80.8	78.8	77.7	77.9	73.1	74.0	78.1	139.3
RFA 6238. RPM	5000	94.1	95.3	93.9	95.4	95.5	94.2	93.2	88.4	89.1	84.1	81.1	79.5	77.3	77.6	76.3	76.3	141.4
(653, RAD/SEC)	6300	88.5	93.5	91.1	87.5	88.4	87.4	86.7	83.1	80.5	76.3	74.2	72.6	73.1	68.6	68.6	73.0	135.7
RFD 10628. RPM	8000	88.1	91.5	90.3	88.1	88.6	87.5	87.4	82.1	81.3	77.6	73.2	72.6	71.3	68.4	69.7	70.6	136.2
(1113, RAD/SEC)	10000	86.3	89.6	87.5	86.2	86.6	84.7	84.3	81.1	78.3	74.3	71.5	69.4	69.4	66.8	66.7	68.6	134.6
NO. OF BLADES 44	12500	82.4	86.6	84.3	83.6	82.8	81.6	80.5	77.4	75.3	71.8	67.4	65.9	65.8	64.7	65.2	66.6	132.5
	16000	78.4	82.8	79.5	78.5	78.6	76.6	76.0	73.5	76.3	68.5	64.7	67.6	67.4	66.9	65.8	68.7	131.0
	20000	73.6	78.8	74.2	73.3	73.5	72.0	71.5	69.6	74.5	68.8	65.7	67.6	67.5	69.0	66.1	70.8	130.1
OVERALL MEASURED		98.9	102.0	100.6	100.0	99.9	99.0	98.1	94.6	92.6	90.1	87.9	87.0	87.2	86.1	86.2	86.0	
OVERALL CALCULATED		99.3	102.4	101.2	99.9	100.2	99.1	98.4	94.6	93.4	89.6	86.8	85.8	85.3	83.5	83.4	85.1	147.6
PMDH		113.0	116.8	115.1	114.0	114.1	113.0	112.1	109.6	107.5	103.5	101.0	99.7	99.2	97.5	97.5	99.1	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 29 HR. 15.9

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	72.2	72.5	70.4	71.1	72.4	70.4	69.3	69.1	69.3	69.6	68.6	67.7	66.8	68.6	69.0	66.8	119.0
63	69.6	67.0	73.0	68.8	81.3	76.0	67.9	62.9	74.6	77.9	66.7	67.2	64.2	68.3	65.6	68.4	123.3
RADIAL 100. FT. ( 30. M)	80	63.3	65.5	62.4	62.2	61.5	62.3	61.6	62.7	62.7	62.4	61.5	60.7	61.0	61.0	61.0	111.0
VEHICLE ATT CONFIG APP	125	67.5	67.5	66.4	64.7	66.8	64.8	64.9	62.7	65.6	65.5	64.8	66.7	64.0	64.2	68.3	115.1
LDC PTO	160	67.7	67.8	66.0	64.9	64.1	64.1	64.1	62.7	63.7	64.1	62.8	62.3	64.2	61.4	65.3	113.6
DATE 08/05/74	200	62.8	62.6	64.4	63.7	64.2	61.8	62.9	60.0	61.0	59.9	58.6	61.1	61.0	61.0	60.4	111.4
MUN 595	250	69.9	70.8	69.7	67.5	68.1	67.1	66.0	63.6	62.7	63.1	60.8	60.9	59.9	62.4	61.2	114.0
TAPE A780	315	76.6	76.8	75.8	74.9	73.8	72.9	72.7	69.5	68.6	66.8	64.8	65.0	64.2	64.3	65.5	120.3
BAR 29.0 HG (97794. N/M2)	400	75.9	76.9	74.1	76.6	77.3	74.9	72.7	70.8	70.0	68.9	66.8	66.0	65.1	64.0	66.4	122.1
TAMB 64. DEG F (291. DEG K)	500	73.8	74.5	74.5	73.5	72.7	71.8	70.6	67.5	66.6	65.7	65.0	65.2	65.1	63.2	63.4	119.1
TWET 59. DEG F (268. DEG K)	630	75.8	77.6	76.9	75.6	75.7	74.1	72.5	71.4	69.5	67.7	67.5	65.9	66.7	65.9	66.4	121.7
FACT11.36 GM/M3 (0.1136 KG/M3)	800	80.0	81.1	80.4	80.1	80.4	78.4	77.0	75.0	74.0	72.0	72.1	69.3	70.1	68.5	69.8	125.0
NFA 6714. RPM ( 703. RAD/SEC)	1000	79.0	81.1	81.2	78.9	79.2	78.3	77.0	74.7	73.7	72.1	71.2	70.2	69.9	68.0	69.6	125.0
REF 662. RPM ( 780. RAD/SEC)	1250	80.9	82.3	84.1	81.9	81.2	82.2	81.0	78.1	76.9	76.0	73.0	74.1	72.0	70.5	71.4	128.7
REF10628. RPM (1113. RAD/SEC)	1600	81.9	83.8	85.2	83.6	83.3	83.0	82.1	78.9	77.8	75.0	74.0	74.2	72.9	72.1	71.2	129.9
NO. OF BLADES 44	2000	81.1	82.9	84.2	83.0	81.6	81.5	80.9	77.0	74.8	73.0	72.1	72.0	71.2	69.4	69.2	124.7
OVERALL MEASURED	2500	82.9	85.3	86.1	84.9	84.2	83.1	82.2	80.7	78.0	75.3	74.2	72.3	73.2	71.5	71.7	130.7
OVERALL CALCULATED	3150	84.6	88.4	86.9	85.6	84.9	85.0	82.3	80.4	79.6	74.9	73.7	73.0	73.0	70.0	70.0	131.0
	4000	88.2	90.2	91.2	86.9	87.4	86.4	86.0	84.8	80.0	77.1	73.9	73.0	75.4	70.2	70.6	134.3
	5000	90.5	93.5	92.7	88.5	89.6	87.6	86.8	84.5	83.6	77.7	74.8	75.7	75.6	71.8	73.0	136.2
	6300	91.1	94.0	92.1	92.0	93.0	90.4	87.2	84.1	85.0	81.0	79.3	77.3	76.1	74.6	75.3	138.1
	8000	89.0	92.2	89.5	86.0	86.4	84.6	83.1	81.0	79.2	74.3	72.3	71.2	71.5	67.3	67.8	135.0
	10000	86.2	89.9	87.2	85.9	86.4	84.2	83.2	78.1	78.0	73.9	71.2	70.1	69.1	67.6	67.7	133.2
	12500	84.9	88.0	86.0	83.8	83.4	82.4	81.0	78.1	75.2	72.0	68.8	68.2	66.3	65.2	65.7	132.1
	16000	81.6	84.2	82.0	80.9	80.1	79.2	76.9	74.7	73.1	69.2	66.0	64.4	64.3	63.2	63.6	129.0
	20000	77.6	80.4	76.5	76.5	76.0	74.9	73.5	71.5	71.5	65.9	64.6	64.7	64.7	64.9	64.0	128.1
	25000	72.2	75.3	71.2	71.2	71.7	70.7	68.7	66.4	71.5	65.0	65.3	65.4	66.6	66.6	65.0	127.6
	31500	98.0	100.8	99.8	97.7	98.1	96.0	94.8	92.7	91.1	86.8	87.9	87.2	87.0	86.1	86.3	144.5
	40000	97.9	100.6	99.6	97.7	98.0	96.3	94.7	92.3	91.1	87.9	85.6	84.9	84.6	82.7	83.2	144.5
	50000	111.5	114.7	113.9	112.0	112.3	110.3	108.4	106.1	105.0	101.5	99.6	98.5	98.1	96.0	97.7	144.5

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	71.4	73.5	70.4	71.1	72.6	70.3	69.3	68.4	69.1	69.6	67.5	68.4	67.2	68.7	69.0	68.6	119.0
63	69.7	68.0	74.6	68.7	80.9	75.8	68.7	62.9	73.9	77.3	67.1	65.9	63.9	68.2	66.2	68.4	123.1
RADIAL 100. FT. ( 30. M)	80	63.2	63.4	62.5	61.3	61.6	62.5	62.4	60.2	61.2	62.4	61.7	60.5	59.3	60.9	60.0	54.6
VEHICLE ATT	125	66.0	67.3	65.7	65.1	63.7	64.3	64.1	62.9	66.1	64.9	63.1	62.3	63.1	63.5	65.5	58.4
CONFID APP	160	63.6	64.0	64.0	63.5	63.8	63.8	64.5	62.5	60.8	61.6	58.9	61.0	60.9	61.2	61.5	58.2
LOC PTD	200	70.0	71.1	70.6	67.9	69.2	67.9	67.8	64.6	62.7	63.7	60.8	60.9	60.9	62.2	61.2	61.1
DATE 08/05/74	250	76.7	78.3	77.7	75.6	75.3	74.2	73.7	70.6	69.6	66.8	65.1	65.9	63.6	65.3	66.5	66.4
RUN 602	315	74.5	77.1	77.6	76.9	77.3	74.9	73.7	71.8	70.6	70.1	67.7	65.3	66.0	64.4	66.2	47.0
TAPE A780	400	72.8	73.6	73.0	72.5	72.1	69.9	69.0	66.7	65.7	65.0	64.9	65.1	63.7	63.0	63.1	64.2
HAR 29.0 HG	500	70.7	72.8	72.7	71.3	72.0	70.8	68.9	67.6	66.5	63.6	65.6	64.7	64.1	65.1	65.9	66.9
(97854. N/M2)	630	74.8	77.4	78.0	77.8	77.5	75.1	74.7	73.1	72.1	71.2	70.0	69.0	68.4	67.2	67.9	69.5
TAMB 62. DEG F	800	76.1	78.1	77.7	76.8	75.9	76.2	74.8	73.1	71.7	69.7	69.2	68.2	68.8	66.0	67.2	70.4
(290. DEG K)	1000	78.2	80.2	81.0	79.1	76.2	78.2	77.3	73.0	71.8	71.2	69.9	71.0	69.5	68.2	67.4	70.2
THEY 59. DEG F	1250	79.1	81.2	82.1	81.0	79.3	79.0	78.0	74.8	72.7	71.0	71.0	71.1	71.1	70.0	68.4	70.0
(288. DEG K)	1600	77.9	80.1	80.9	80.0	78.3	78.3	76.1	74.1	71.7	69.9	69.8	69.2	69.3	67.5	67.7	69.4
WACT11.73 GM/M3	2000	79.0	82.4	82.0	80.1	79.5	79.4	78.0	74.9	72.9	70.2	69.9	70.3	69.4	68.2	69.3	71.5
(.01173 KG/M3)	2500	82.0	85.0	82.8	81.8	81.1	80.9	78.0	76.6	74.5	71.6	69.6	70.1	69.9	67.9	68.1	71.3
NFA 6763. RPM	3150	86.8	88.1	89.0	84.1	83.2	83.1	82.9	80.8	79.9	73.3	70.9	71.0	72.1	67.9	68.7	69.4
( 708. RAD/SEC)	4000	87.8	90.9	89.7	85.7	86.0	84.0	83.6	80.7	79.0	73.7	71.8	72.9	73.0	69.6	71.0	72.5
NFK 6747. RPM	5000	88.1	89.9	88.1	88.1	88.1	85.3	82.9	80.1	81.2	78.3	75.6	75.1	74.0	72.2	73.4	72.4
( 706. RAD/SEC)	6300	85.3	89.4	86.1	82.0	82.2	81.3	80.1	77.3	75.1	70.3	69.1	69.4	69.2	65.3	66.8	67.0
NFD10428. RPM	8000	83.1	86.2	83.1	81.1	82.3	80.1	79.3	74.3	74.8	70.1	67.9	67.3	67.1	65.1	65.4	66.0
(1117. RAD/SEC)	10000	82.2	84.8	81.8	79.7	79.1	78.2	77.3	73.6	71.8	68.1	66.8	67.0	66.0	64.1	63.5	65.1
NO. OF BLADES 44	12500	78.0	81.0	78.1	76.9	75.8	74.8	72.9	70.0	69.6	66.1	63.9	64.1	62.9	62.3	62.4	65.3
	16000	74.1	77.0	73.4	72.4	72.3	71.3	70.6	68.2	70.6	66.3	63.6	64.7	63.7	65.6	64.0	66.0
	20000	68.9	71.9	68.1	68.1	68.3	67.1	66.9	63.8	69.8	66.0	63.9	65.4	63.3	66.3	65.4	68.3
OVERALL MEASURED	94.7	98.0	96.1	94.7	93.9	93.0	91.9	89.0	88.7	87.1	85.2	85.2	84.8	79.2	86.4	84.0	
OVERALL CALCULATED	95.0	97.7	96.4	94.1	94.0	92.5	91.3	86.5	87.5	85.2	82.9	83.0	82.5	81.5	82.1	82.4	141.0
PNDR	108.8	111.0	110.5	108.1	108.1	106.2	105.3	102.5	101.4	98.5	96.6	96.4	95.8	94.1	94.9	95.4	

MODEL SOUND PRESSURE LEVELS (5% DEG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	71.3	72.5	73.3	74.4	72.7	70.5	68.5	68.3	69.6	69.7	67.5	67.7	66.4	67.6	67.7	67.4	118.7	
63	67.8	66.7	73.9	67.9	81.0	76.2	67.7	62.0	73.9	77.9	67.1	65.8	61.1	66.3	64.2	58.3	123.0	
RADIAL 100. FT. (30. M)	80	62.3	62.4	61.2	60.6	61.5	60.8	60.2	60.4	60.6	61.4	61.6	59.6	58.5	59.0	59.8	53.8	110.1
VEHICLE ATT	100	64.8	65.5	65.7	63.8	64.7	62.2	62.8	63.4	65.8	65.7	65.5	64.0	63.7	64.8	63.3	61.9	114.2
CONFIG APP	125	65.1	66.1	64.7	63.0	63.4	62.3	61.9	63.0	66.8	66.9	63.9	63.2	62.0	63.2	64.5	59.3	113.9
LOC PTO	160	63.5	63.7	64.7	62.8	64.1	61.9	62.8	60.0	60.9	59.9	58.7	60.9	60.8	60.2	60.4	58.0	111.3
DATE 08/05/74	200	71.0	70.9	71.4	68.6	68.8	67.2	66.6	64.0	63.6	63.7	61.1	60.9	60.0	62.1	62.1	60.2	119.2
HUN 604	250	78.2	78.2	77.6	77.0	75.9	74.3	73.8	71.8	70.7	67.9	66.1	65.3	64.1	65.1	67.2	66.3	122.6
TAPE 4780	315	76.9	78.2	77.6	76.6	77.0	75.3	73.9	72.0	71.0	70.0	67.7	66.1	65.8	64.3	66.1	67.3	122.5
BAR 29.0 HG	400	78.9	79.6	79.8	76.6	76.9	75.2	75.7	75.6	73.7	72.6	69.7	72.1	67.7	65.0	67.1	71.3	124.2
(97848. N/M2)	500	79.9	81.9	81.4	77.5	77.1	76.1	75.8	74.5	75.9	72.5	70.6	71.7	67.9	69.2	68.1	71.8	125.0
TANK 62. DEG F	630	79.2	79.1	79.7	78.1	78.2	76.5	75.1	72.6	71.9	70.3	70.2	69.3	68.9	68.6	68.4	70.5	124.1
(290. DEG K)	800	80.7	81.8	79.6	77.6	77.0	77.1	74.9	72.8	71.9	71.1	69.7	71.1	71.0	69.1	68.2	71.8	124.4
TWET 58. DEG F	1000	84.2	84.0	84.0	81.9	79.2	79.4	78.0	75.0	73.2	72.9	71.2	73.1	73.9	66.7	66.6	71.5	127.0
(288. DEG K)	1250	81.9	82.1	82.5	81.7	80.3	79.2	78.8	75.0	72.6	71.0	70.8	70.9	70.8	69.4	69.2	73.3	126.6
FACT 11.23 GM/M3	1600	80.1	81.0	83.0	81.1	79.4	79.6	77.9	74.0	72.9	70.5	70.2	70.3	69.2	68.4	68.5	69.3	126.5
(.01123 KG/M3)	2000	80.2	82.3	82.0	80.9	79.1	79.3	77.1	74.7	73.0	70.3	69.3	70.1	69.9	69.6	69.4	71.4	126.3
NFA 6761. RPM	2500	81.6	84.7	82.6	82.6	81.1	81.4	77.9	76.6	74.7	71.7	70.0	70.0	70.0	68.4	68.1	71.2	127.4
(708. RAD/SEC)	3150	85.9	87.3	89.0	84.0	83.4	82.6	82.2	80.1	75.2	73.3	70.0	70.4	71.3	67.3	68.6	69.2	130.9
NFK 6742. RPM	4000	87.7	90.6	88.6	85.5	84.7	82.9	83.6	80.7	79.6	72.8	71.6	72.7	71.7	70.5	70.3	72.2	132.3
(706. RAD/SEC)	5000	87.1	89.3	87.7	88.2	88.1	84.3	82.1	79.0	80.3	77.2	77.1	75.0	74.1	72.6	73.3	72.6	133.9
ACD 10528. RPM	6300	89.0	88.4	85.9	82.0	82.5	80.5	79.4	76.6	75.0	70.1	69.3	69.1	69.2	65.6	66.5	67.6	129.8
(1113. RAD/SEC)	8000	83.1	86.0	83.0	81.9	82.1	80.4	78.2	73.7	73.2	70.3	66.9	66.3	67.1	64.5	65.3	66.2	129.3
N. OF BLADES 44	12500	81.2	84.1	82.1	79.1	79.1	78.6	75.8	73.0	71.1	68.2	66.2	65.9	65.3	63.5	63.3	64.2	127.9
16000	78.1	80.7	77.7	75.9	75.0	75.1	72.0	69.9	69.1	66.1	62.0	63.0	62.2	60.3	62.3	63.4	125.7	
20000	73.4	76.5	73.3	72.6	71.0	72.1	68.0	67.3	69.8	64.6	61.6	65.0	63.9	62.9	64.2	64.7	124.7	
OVERALL MEASURED	68.3	72.2	68.3	67.3	67.6	67.4	65.5	63.4	69.1	63.2	60.6	65.0	62.4	62.5	62.6	65.5	124.5	
OVERALL CALCULATED	95.8	96.0	96.9	94.7	94.8	93.2	91.8	89.7	86.9	87.0	85.0	86.3	84.9	84.1	86.3	84.3		
PWDF	109.4	111.6	110.5	108.5	108.2	105.9	105.2	102.0	101.4	92.5	97.5	96.7	95.9	94.4	94.9	95.5	141.3	



HOOD SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PdL
FREQ. (0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	50	50	50	50	50	50	50	50	50	50	50	50	119.0
	63	63	63	63	63	63	63	63	63	63	63	63	63	124.0
RADIAL 100. FT.	80	80	80	80	80	80	80	80	80	80	80	80	80	111.0
(30. M)	100	100	100	100	100	100	100	100	100	100	100	100	100	114.0
VEHICLE ATT	125	125	125	125	125	125	125	125	125	125	125	125	125	114.5
CONFIS APP	160	160	160	160	160	160	160	160	160	160	160	160	160	112.1
LOC PTD	200	200	200	200	200	200	200	200	200	200	200	200	200	110.9
DATE 08/05/74	250	250	250	250	250	250	250	250	250	250	250	250	250	123.8
MUN 685	315	315	315	315	315	315	315	315	315	315	315	315	315	124.9
TAPE A910	400	400	400	400	400	400	400	400	400	400	400	400	400	123.0
BAR 29.0 HG	500	500	500	500	500	500	500	500	500	500	500	500	500	122.7
(97848. N/M2)	630	630	630	630	630	630	630	630	630	630	630	630	630	125.0
TAMP 62. DEG F	800	800	800	800	800	800	800	800	800	800	800	800	800	124.4
(290. DEG K)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	126.9
WNET 58. DEG F	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	127.2
(288. DEG K)	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	127.9
FAC11.23 GM/M3	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	128.2
(.01123 KG/M3)	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	129.3
MFA 6761. RPM	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	132.0
(708. RAD/SEC)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	134.0
MFK 6742. RPM	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	135.4
(706. RAD/SEC)	6300	6300	6300	6300	6300	6300	6300	6300	6300	6300	6300	6300	6300	132.0
MFD10628. RPM	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	131.1
(1113. RAD/SEC)	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	130.3
NO. OF BLADES 44	12500	12500	12500	12500	12500	12500	12500	12500	12500	12500	12500	12500	12500	127.7
	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	126.7
	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	125.4
OVERALL MEASURED	98.9	94.3	94.0	95.7	93.1	92.2	88.8	87.2	89.9	86.0	83.5	86.5	87.4	
OVERALL CALCULATED	98.7	94.8	93.0	95.0	92.4	91.5	88.3	87.2	87.9	83.8	80.9	84.1	84.1	142.8
PRDH	112.7	109.0	107.0	109.1	105.0	105.3	102.3	101.2	101.1	97.3	94.0	97.5	97.2	

	FREQ.	0.	10.	20.	30.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL
	(0.)	(0.17)	(0.35)	(0.52)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.95)	(2.12)	(2.29)	(2.47)	(2.64)	(2.82)	( )
	50	75.3	76.1	76.9	75.5	74.8	72.7	73.7	72.7	73.0	72.1	71.3	72.4	72.9	72.1	74.0	122.9
	63	76.4	74.9	74.9	74.0	77.1	72.8	71.9	72.3	77.9	72.1	72.1	71.7	72.0	73.0	71.4	123.5
RADIAL 100. FT. (30. M)	80	73.9	73.7	74.6	73.5	72.7	72.5	72.5	69.7	70.5	72.7	71.7	70.5	71.6	69.9	71.0	121.5
VEHICLE CONFIG 8-M IN	100	73.9	73.9	74.6	71.9	72.2	70.4	70.8	70.2	66.9	70.2	67.7	67.8	71.1	70.9	72.3	120.3
LOC PTD	125	71.4	72.5	70.1	70.1	68.5	68.1	69.0	67.1	65.1	66.5	67.4	69.0	66.4	68.2	67.4	117.7
DATE 8/09/74	160	69.2	67.1	69.9	65.9	66.0	66.5	64.6	63.1	60.9	62.7	63.8	65.8	62.9	62.8	63.8	114.4
RUN 634	200	74.2	75.3	73.9	71.0	69.2	68.7	67.8	65.1	64.9	64.2	62.1	63.8	64.2	63.9	64.2	117.1
TAPE A914	250	81.1	81.3	82.0	80.2	78.3	76.8	75.9	72.3	70.2	70.2	66.8	66.9	67.2	70.1	69.1	124.7
BAR 29.0 HG	315	84.1	83.4	84.1	82.0	77.0	74.8	73.6	70.9	70.1	68.1	66.9	68.8	67.4	69.2	70.2	125.1
(97790. N/M2)	400	80.1	80.2	81.0	80.7	77.2	73.6	73.8	69.7	68.1	68.2	66.7	70.6	70.1	70.8	69.3	123.9
TANK 79. DEG F	500	78.1	78.3	78.7	76.6	72.8	69.7	69.5	67.0	66.9	67.1	65.7	66.9	68.3	67.9	68.2	120.8
(299. DEG K)	630	83.5	82.6	83.3	82.3	77.1	75.9	73.8	71.5	69.2	71.2	71.2	70.3	69.8	70.4	68.6	125.4
THET 7. DEG F	800	82.3	82.2	83.2	83.1	80.1	78.0	77.0	71.3	76.2	72.3	76.9	71.8	72.4	63.9	70.2	127.2
(295. DEG K)	1000	84.6	83.4	87.3	83.4	82.6	79.2	78.3	72.5	74.1	73.2	75.4	75.0	75.6	73.3	76.5	128.9
NACT 16.83 G/M3 (.01683 KG/M3)	1250	86.1	87.4	88.2	84.9	87.3	83.7	82.0	76.3	79.2	78.0	78.0	78.7	78.4	77.1	73.2	132.3
NFA 7542. RPM (790. RAD/SEC)	1600	88.3	87.4	87.3	87.2	88.5	83.8	79.2	79.4	74.4	75.2	72.1	75.9	76.6	72.0	74.5	132.3
NFB 10628. RPM (1113. RAD/SEC)	2000	88.5	88.4	89.1	89.4	89.5	86.9	83.0	82.5	74.5	75.6	74.4	78.3	74.4	74.1	74.6	134.2
NO. OF BLADES 44	2500	90.1	90.4	90.8	90.8	91.0	87.9	85.0	79.0	77.9	77.1	76.3	77.8	76.2	75.8	75.1	135.6
OVERALL MEASURED	3150	92.7	93.3	93.4	92.3	91.3	88.8	84.9	82.4	78.2	77.2	76.5	77.9	75.3	75.4	74.5	136.9
OVERALL CALC. LATER	4000	95.2	94.1	96.2	95.8	94.3	92.0	86.7	82.0	76.2	76.3	77.2	77.0	75.4	78.2	76.3	139.8
	5000	93.4	96.7	94.5	94.1	95.3	91.2	86.1	84.5	86.2	78.6	76.3	79.3	78.3	77.5	74.4	139.8
	6300	95.5	94.5	94.5	94.5	93.7	92.0	85.4	80.3	79.4	76.4	76.5	77.1	75.5	74.6	73.5	139.5
	8000	93.6	95.3	93.3	93.3	93.4	89.9	84.8	79.3	77.4	75.1	74.4	75.8	74.5	75.0	73.5	139.2
	10000	93.3	94.0	92.8	92.7	91.3	88.8	81.1	76.1	72.8	72.0	70.9	72.7	70.9	71.1	70.1	138.6
	12500	89.9	91.0	89.4	89.5	87.9	85.3	77.4	72.5	7.7	68.4	68.6	69.1	69.0	69.5	68.7	136.5
	16000	87.2	89.1	85.0	86.2	85.4	81.6	74.8	71.1	79.3	70.5	74.0	71.2	75.4	75.0	75.4	136.2
	20000	81.4	83.5	80.1	81.0	79.6	77.0	69.1	63.4	67.3	60.5	64.2	61.2	65.3	65.4	65.4	132.9
	OVERALL MEASURED	103.4	104.3	102.8	103.2	103.0	99.9	95.7	92.3	90.3	88.3	89.0	90.0	89.0	88.9	89.2	
	OVERALL CALC. LATER	103.3	103.9	103.5	103.1	102.6	99.8	95.0	91.5	89.6	87.9	87.7	88.4	87.8	87.4	86.5	148.6
	PHL	116.5	115.9	117.2	116.7	115.7	113.1	108.6	105.2	102.2	100.9	100.4	101.5	100.5	100.7	99.4	

REPRODUCIBILITY OF THE  
 ORIGINAL PAPER IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0.	10.	20.	30.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
	50	73.8	75.1	75.5	73.8	73.1	70.6	71.6	70.9	71.6	70.7	70.1	70.6	71.2	71.0	71.1	121.2
	63	75.0	73.3	73.8	70.9	77.1	70.6	70.1	70.3	77.3	70.2	68.1	67.9	70.0	70.2	67.3	122.0
RADIAL 100. FT. (30. M)	83	67.7	68.0	67.6	66.4	66.7	66.2	65.2	64.6	65.5	66.8	65.4	64.2	64.6	64.5	63.9	115.2
	100	69.3	70.0	70.7	68.8	66.9	64.5	66.8	66.1	65.3	68.1	66.0	66.5	65.9	67.7	66.9	116.6
VEHICLE ATT	125	66.5	67.7	66.1	65.5	63.5	61.9	62.2	63.3	60.3	60.2	60.4	62.7	60.5	62.3	61.5	112.2
CONFIG 8" M IN	160	64.2	62.3	64.9	61.6	62.2	62.5	60.8	61.1	58.8	59.7	60.0	61.7	60.2	58.8	59.1	110.7
LOC PTD	200	69.9	70.2	70.0	67.0	67.1	66.9	67.8	66.2	68.0	65.0	64.1	67.0	64.0	63.1	64.5	116.3
DATE 8/09/74	250	76.3	76.3	75.8	74.8	72.2	69.9	68.6	65.9	64.2	62.8	62.2	62.6	62.0	63.8	64.3	118.7
RUN 635	315	78.1	78.2	77.9	77.3	72.9	69.7	68.8	64.8	65.2	63.1	62.1	62.8	62.0	62.8	64.0	119.8
TAPE A914	400	75.9	75.1	75.9	73.9	70.8	67.5	64.5	63.1	62.0	61.8	60.8	62.4	62.2	63.0	63.8	117.5
BAR 29.0 HG	500	74.8	75.3	75.5	72.8	71.8	70.5	68.6	69.0	69.0	70.8	66.6	61.7	66.2	66.6	63.1	119.7
(97790. N/M2)	630	78.6	79.5	79.3	77.2	73.2	70.1	69.0	67.2	65.4	66.2	64.4	63.6	64.6	65.1	64.5	120.9
TAMP 79. DEG F	800	77.4	77.3	76.8	75.3	73.2	69.9	66.7	66.0	65.2	66.0	64.8	63.6	63.0	63.9	64.3	119.5
(299. DEG K)	1000	79.7	78.7	79.3	78.3	76.5	71.9	69.9	66.5	66.3	66.3	66.2	68.3	65.4	65.0	65.3	122.1
TWET 7. DEG F	1250	80.4	80.2	81.1	79.3	78.3	74.7	74.6	69.1	69.1	67.3	69.0	70.0	68.2	66.1	64.0	124.1
(295. DEG K)	1500	79.3	80.4	81.1	81.0	80.6	75.7	74.2	69.4	68.5	66.3	66.0	68.1	66.7	67.3	64.1	125.0
MACT 16.83 GM/M3	2000	81.6	81.7	83.1	83.1	82.5	78.0	75.3	70.6	69.4	68.5	67.1	69.2	67.5	68.5	66.3	127.6
(.01683 KG/M3)	2500	84.3	85.5	85.9	85.1	86.0	81.9	77.8	73.3	71.9	69.1	68.2	71.0	70.2	70.2	68.3	130.1
NFA 6373. RPM	3150	93.6	96.4	96.4	92.3	91.5	87.1	84.2	78.5	76.5	74.1	74.3	75.0	73.5	73.2	72.4	137.6
(667. RAD/SEC)	4000	91.0	89.1	91.8	90.8	92.0	88.0	82.1	78.0	72.9	73.1	73.2	74.8	71.8	73.0	72.2	136.0
NFK 6256. RPM	5000	90.4	95.4	94.1	93.1	98.4	93.2	87.0	84.6	79.4	79.3	76.5	78.9	77.7	78.3	74.3	141.1
(655. RAD/SEC)	6300	98.5	89.7	90.4	90.3	88.4	86.3	78.4	73.3	73.5	69.5	70.6	70.4	69.5	70.3	69.5	134.5
NFD 10628. RPM	8000	89.4	91.3	90.0	92.1	93.2	89.8	82.9	78.4	74.2	73.2	72.1	73.1	71.4	73.1	71.4	138.0
(1113. RAD/SEC)	10000	88.3	89.3	88.0	88.6	89.0	86.9	78.0	72.9	70.1	69.2	69.1	68.0	66.3	68.1	68.3	135.4
NO. OF BLADES 44	12500	84.7	88.0	84.5	85.6	86.9	84.3	74.6	70.6	76.6	68.7	71.6	71.5	72.7	72.6	72.9	134.5
	16000	81.2	83.4	80.9	81.6	83.1	79.0	70.1	64.9	66.1	62.0	63.9	63.0	65.2	65.2	64.3	131.9
	20000	76.5	80.7	76.2	77.4	77.6	73.9	66.1	65.2	72.4	63.2	67.5	67.4	69.4	69.4	69.7	131.0
OVERALL MEASURED		99.5	100.9	100.9	99.2	102.1	97.7	91.7	89.0	87.9	86.1	85.3	86.7	84.8	86.9	86.1	
OVERALL CALCULATED		99.5	101.5	101.1	100.8	101.8	97.7	91.8	88.2	86.3	84.4	83.5	84.6	83.8	84.1	82.7	146.5
PWDR		113.5	115.3	115.4	113.8	115.6	111.1	105.8	102.7	99.3	98.5	96.9	98.5	97.3	97.8	95.4	

MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	73.8	74.7	75.9	73.8	73.4	72.8	71.4	71.9	71.1	71.7	69.9	70.0	71.0	71.9	71.0	71.1	121.7
	63	73.9	73.0	73.9	71.1	73.9	76.5	70.9	70.1	70.1	78.1	69.2	69.0	68.9	70.3	70.3	67.1	122.5
RADIAL 100. FT.	80	67.9	67.8	67.4	66.7	66.4	66.9	66.2	65.3	64.7	63.7	65.5	64.4	64.2	62.5	63.4	64.7	115.1
(30. M)	100	69.1	69.0	70.9	69.9	70.5	68.1	64.6	67.7	67.8	66.1	66.1	64.6	65.5	62.8	67.9	67.0	117.2
VEHICLE ATT	125	67.3	67.7	67.1	66.3	65.2	64.4	62.9	63.2	64.4	61.1	59.1	61.1	62.9	59.3	63.3	62.3	113.2
CONFIG B-M IN	160	63.9	63.2	64.7	62.0	64.7	61.9	62.7	60.9	62.0	58.8	59.0	60.8	61.5	59.0	59.0	60.8	111.4
LOC PTD	200	70.0	70.1	70.1	66.0	68.4	65.1	65.5	64.6	67.0	66.1	65.2	62.0	60.9	60.2	62.6	64.1	115.5
DATE 8/09/74	250	76.3	76.1	76.0	73.9	72.5	71.3	69.9	68.0	67.2	63.9	62.8	61.9	61.9	60.1	63.9	64.0	119.0
RUN 636	315	77.1	78.5	78.2	77.0	74.3	72.3	69.6	67.0	66.2	65.2	62.1	62.1	62.9	60.3	63.0	63.8	120.4
TAPE A914	400	75.9	74.9	74.9	73.6	72.2	71.1	67.6	64.6	63.6	62.7	61.7	63.0	63.4	61.2	63.0	63.7	118.1
BAR 29.0 HG	500	75.1	74.0	75.7	74.7	72.5	74.0	70.4	72.8	72.8	72.7	72.9	64.9	62.4	63.1	64.9	63.6	121.7
(97790. N/M2)	630	78.6	79.5	79.3	77.0	77.0	76.5	72.1	73.0	69.5	69.3	70.3	66.3	66.1	64.5	66.3	65.4	123.1
TAMP 79. DEG F	800	76.0	77.1	78.1	76.7	75.6	73.3	70.9	71.1	71.4	68.2	64.9	63.8	70.0	62.0	63.6	64.9	121.8
(299. DEG K)	1000	78.7	79.3	80.2	79.1	77.8	76.5	74.8	71.4	68.3	66.5	67.3	67.3	70.1	65.5	64.3	65.9	123.8
TWET 71. DEG F	1250	79.2	81.1	81.2	81.3	79.5	79.2	73.6	72.1	70.1	69.9	68.0	69.0	69.8	67.2	66.1	64.8	125.3
(295. DEG K)	1600	79.3	79.5	81.3	80.1	80.0	80.5	75.1	73.2	70.5	69.2	68.2	67.0	67.9	65.2	66.3	64.2	125.7
HACT 6.83 GH/M3	2000	81.6	81.5	83.1	85.4	84.0	83.6	79.4	76.3	73.5	71.2	71.3	69.3	71.2	67.5	71.3	67.2	129.3
(.01683 KG/M3)	2500	84.2	85.3	85.8	85.1	85.9	85.3	80.9	76.7	72.2	72.2	70.1	69.0	70.6	67.2	68.9	68.2	130.6
NFA 6518. RPM	3150	93.6	95.3	94.1	91.3	90.8	90.6	87.3	84.3	78.5	76.5	73.5	74.1	74.2	72.3	73.2	72.5	137.3
(682. RAD/SEC)	4000	90.0	89.2	91.2	91.0	91.6	92.1	87.9	81.8	77.3	73.3	73.0	73.1	74.9	71.3	72.6	73.0	137.0
NFK 6399. RPM	5000	88.8	95.3	93.4	92.1	96.9	97.6	92.3	86.4	85.5	82.6	81.6	77.4	79.3	75.6	79.3	74.5	141.8
(670. RAD/SEC)	6300	90.7	90.3	90.4	90.5	88.9	88.5	86.1	78.4	74.6	74.3	71.3	71.4	71.1	69.6	69.5	70.5	135.5
NFD 10628. RPM	8000	88.4	92.2	89.9	92.9	93.8	93.2	88.8	81.9	78.4	73.4	73.4	71.2	73.0	69.4	73.1	70.4	139.4
(1113. RAD/SEC)	10000	88.0	88.9	88.8	89.6	89.9	89.1	86.0	78.8	72.9	71.0	69.3	69.2	69.0	67.3	68.6	68.0	136.8
NO. OF BLADES 44	12500	84.6	87.6	84.6	86.4	86.5	85.9	83.4	75.6	71.9	76.6	69.7	72.6	72.4	71.8	72.5	73.6	135.2
	16000	81.1	83.2	80.8	82.1	83.0	82.1	79.1	70.0	65.2	68.4	62.2	65.0	63.9	64.1	65.2	66.5	132.9
OVERALL MEASURED	20000	99.3	100.9	100.1	100.2	101.0	101.1	96.7	90.7	89.2	88.2	87.0	84.9	86.0	85.4	86.9	86.0	147.3
OVERALL CALCULATED		99.0	101.2	100.3	100.1	101.3	101.4	97.1	91.6	88.9	87.5	85.5	83.8	84.9	82.4	84.4	83.0	147.3
PWDB		113.2	114.7	114.1	112.6	114.9	115.1	110.6	105.5	103.6	101.2	100.0	97.5	98.9	95.7	98.4	95.7	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0° (0.0)	10° (0.17)	20° (0.35)	30° (0.52)	40° (0.70)	50° (0.87)	60° (1.05)	70° (1.22)	80° (1.40)	90° (1.57)	100° (1.75)	110° (1.92)	120° (2.09)	130° (2.27)	140° (2.44)	150° (2.62)	PWL
	50	74.8	76.1	75.9	74.8	73.9	73.8	72.4	72.8	71.0	71.7	70.7	70.7	71.8	72.1	72.2	62.0	122.2
	63	74.1	73.0	73.9	71.7	74.8	77.2	71.6	70.3	69.9	78.8	70.0	69.1	68.0	70.2	69.9	58.3	123.0
RADIAL 180. FT. (30. M)	80	68.7	69.0	68.7	67.9	67.5	66.9	66.6	65.5	64.5	64.5	66.8	65.4	64.2	65.6	64.5	55.9	115.8
VEHICLE ATT	100	71.2	71.0	71.9	68.9	69.8	68.8	66.8	69.0	67.1	65.8	65.0	65.7	65.8	68.4	70.8	60.9	117.9
CONFIG R-M IN	125	68.5	69.5	69.2	68.0	67.2	66.5	65.9	68.3	67.0	64.2	63.4	65.1	65.9	65.4	66.1	58.6	116.2
LDC PTD	150	71.2	71.0	71.9	68.9	69.8	68.8	66.8	69.0	67.1	65.8	65.0	65.7	65.8	68.4	70.8	60.9	113.0
DATE 8/09/74	200	69.2	70.2	69.0	66.1	68.9	66.2	65.0	64.8	62.9	63.1	62.8	62.1	61.9	63.1	62.1	53.2	114.7
RUN 637	250	76.0	76.1	75.8	74.8	72.9	72.3	70.0	67.9	66.3	64.2	63.9	63.2	63.0	63.3	63.9	55.2	119.3
TAPE A944	315	78.4	78.3	78.2	76.6	75.7	73.1	70.5	69.8	68.3	65.1	61.8	61.9	64.6	64.1	63.8	53.2	121.0
BAR 29.0 HG (97790. N/M2)	400	75.8	75.8	76.0	73.9	72.5	70.1	67.5	65.9	64.0	62.7	62.7	62.8	63.6	63.1	63.7	53.9	118.4
TAMR 79. DEG F (299. DEG K)	500	74.1	74.0	73.9	73.6	74.7	70.0	66.4	67.7	71.0	71.8	69.0	70.1	69.7	64.1	66.9	55.9	120.6
TWET 7. DEG F (295. DEG K)	630	78.5	78.5	79.3	78.0	78.1	73.5	72.9	72.0	73.5	76.2	75.4	71.3	70.2	68.4	69.3	56.4	124.6
MACT 6.68 GM/M3 (.01668 KG/M3)	800	79.4	78.6	77.9	77.6	74.9	72.1	74.9	70.9	66.4	68.2	72.2	66.1	69.9	63.2	68.0	53.9	122.5
NFA 6724. RPM (704. RAD/SEC)	1000	77.7	78.4	79.1	77.9	75.8	75.2	72.1	70.1	65.4	66.4	66.5	66.4	66.9	66.6	65.0	56.2	122.3
NFK 6598. RPM (691. RAD/SEC)	1250	78.1	80.2	80.0	79.1	79.3	77.1	74.7	71.2	68.3	68.3	67.5	69.2	69.8	69.6	67.1	56.2	124.3
NFD10 628. RPM (1113. RAD/SEC)	1500	79.4	80.2	80.1	79.1	79.3	77.1	75.7	72.1	69.4	67.2	67.3	67.1	68.1	67.4	66.6	55.3	124.8
NO. OF BLADES 44	2000	82.6	81.6	81.2	81.1	83.2	81.4	79.0	76.1	71.9	71.2	70.3	69.5	70.2	69.3	69.2	59.2	128.6
OVERALL MEASURED	2500	83.2	84.2	86.1	85.9	87.6	88.6	83.7	79.7	73.3	73.5	71.2	71.0	72.7	71.1	70.6	60.0	132.5
OVERALL CALCULATED	3150	91.6	93.4	93.4	90.3	89.2	89.3	86.4	83.0	77.5	76.4	73.4	73.2	73.2	71.6	71.6	61.4	136.1
PND8	4000	91.4	90.1	91.8	90.8	90.7	91.1	88.9	83.0	77.3	74.0	73.1	74.2	74.8	71.2	72.0	63.2	136.8
	5000	89.3	95.4	93.1	93.1	98.2	97.6	92.0	87.6	85.6	80.4	80.5	75.2	78.9	77.4	78.4	65.2	141.7
	6300	90.7	90.4	90.2	90.4	89.1	89.5	87.3	80.1	75.5	76.4	71.5	72.5	72.3	71.6	71.5	60.6	136.0
	8000	89.3	92.5	91.3	91.0	92.8	92.2	88.1	81.9	77.5	73.3	73.4	71.1	72.9	71.5	72.2	65.4	138.7
	10000	89.0	88.9	89.1	90.0	89.7	90.0	86.7	78.8	73.0	71.2	69.9	69.3	68.9	59.4	69.0	59.0	137.1
	12500	85.6	87.6	85.7	86.4	86.6	86.9	83.3	75.5	71.8	76.9	69.9	72.8	72.6	74.0	73.5	63.7	135.6
	15000	82.2	83.1	81.2	82.1	82.8	83.2	79.7	71.1	69.3	69.3	63.2	65.2	65.8	67.0	68.1	57.2	133.3
	20000	76.9	80.6	76.5	77.5	78.4	77.5	75.3	67.2	64.6	72.6	64.4	66.3	68.3	69.7	68.8	59.6	132.1
		99.2	101.0	99.9	99.7	100.8	101.3	98.0	92.0	89.1	88.1	86.9	85.9	86.7	86.0	87.0	78.1	
		99.1	100.9	100.3	99.9	100.7	101.3	97.2	92.2	88.8	87.5	85.5	84.1	85.1	84.2	84.5	73.7	147.2

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 15 HR. 9.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.42)	(2.58)	PWL
	50	76.1	76.1	76.6	74.9	74.6	73.9	72.6	73.5	72.0	72.7	71.9	71.9	72.5	73.0	72.7		122.8
	63	75.2	74.1	74.7	72.0	75.6	77.2	71.8	70.8	71.2	70.1	69.8	69.9	69.1	70.3	68.0		123.3
RADIAL 100. FT.	80	69.6	68.9	68.6	67.7	67.4	67.5	66.4	66.6	65.9	65.6	66.6	65.5	64.7	65.9	65.8		116.1
(30. M)	100	71.1	71.0	71.7	69.7	70.6	69.1	65.7	66.6	68.1	66.2	65.8	66.1	66.0	67.2	70.1		117.6
VEHICLE ATT	125	69.3	69.3	69.3	71.0	67.1	65.6	64.0	65.3	69.4	66.4	63.2	67.2	67.2	63.4	65.5		116.6
CONFIG B-M IN	160	65.9	64.0	65.9	63.8	65.8	63.1	63.8	62.9	63.8	62.2	61.1	61.9	62.9	61.2	62.0		112.8
LDC PTO	200	69.9	69.9	69.1	67.0	68.1	65.3	64.8	64.1	64.3	64.1	62.0	60.9	60.7	62.4	62.1		114.4
DATE 8/09/74	250	77.1	76.2	76.1	74.7	72.8	71.6	70.8	68.9	67.9	65.1	64.1	63.0	63.0	63.4	65.1		119.5
RUN 638	315	78.1	78.2	79.1	76.7	75.7	73.2	70.9	70.7	69.9	68.2	65.2	62.2	65.8	66.3	66.9		121.6
TAPE A944	400	75.1	74.9	75.9	73.7	72.6	69.9	67.6	65.8	66.1	63.8	62.8	61.8	65.7	65.1	64.9		118.5
BAR 29.0 HG	500	73.7	74.8	74.8	74.7	74.7	71.1	66.5	66.7	68.0	66.6	64.1	62.7	68.7	63.3	64.8		119.4
(97790. N/M2)	630	79.5	79.7	81.3	79.5	80.2	76.2	72.9	70.2	73.4	72.4	74.3	70.0	72.1	65.5	67.4		125.0
TAMR 79. DEG F	800	80.1	79.2	79.0	80.9	76.7	80.4	78.6	72.0	71.2	71.8	77.1	71.2	71.6	70.1	72.2		126.1
(299. DEG K)	1000	78.3	79.4	80.1	79.4	79.0	78.4	75.1	74.2	70.3	68.1	67.2	68.1	68.8	67.3	68.2		124.6
TWET 7. DEG F	1250	80.2	81.3	82.2	82.1	81.7	82.3	79.7	77.0	74.1	72.2	71.0	71.2	74.6	72.1	69.0		128.0
(295. DEG K)	1500	81.2	81.5	82.0	81.1	79.9	81.2	76.9	74.4	71.4	70.3	68.9	68.2	69.7	69.4	66.2		126.5
HACT 16.68 G4/H3	2000	83.6	82.4	84.3	84.2	87.0	87.6	83.9	80.3	75.3	74.2	72.3	73.4	75.7	73.2	74.1		132.0
(.01668 KG/H3)	2500	84.2	85.3	86.8	87.0	87.7	89.0	85.6	82.0	76.2	74.9	71.9	71.1	73.7	72.0	69.8		133.5
NFA 6833. RPM	3150	91.2	93.4	92.4	91.0	88.8	90.4	86.2	83.4	78.5	77.5	74.4	73.4	75.8	72.4	71.1		136.2
(715. RAD/SEC)	4000	92.2	90.1	92.2	91.8	90.9	92.3	90.0	84.2	79.1	76.3	73.2	74.1	75.8	72.0	73.9		137.7
NFK 6705. RPM	5000	89.4	95.4	93.4	93.1	96.1	98.3	92.9	89.2	85.5	81.5	80.5	75.3	80.0	78.7	74.4		142.1
(702. RAD/SEC)	6300	91.4	91.5	91.5	90.5	90.0	90.3	88.4	81.2	76.4	76.2	72.2	72.5	72.2	71.7	71.6		136.8
NFD 10628. RPM	8000	90.1	93.3	92.2	92.0	93.1	92.5	88.1	82.2	78.4	73.2	73.0	71.2	72.7	71.4	70.1		139.0
(1113. RAD/SEC)	10000	89.0	90.1	89.8	90.1	89.5	90.1	86.7	80.0	74.2	72.0	70.1	69.8	68.8	68.9	68.9		137.4
NO. OF BLADES 44	12000	86.6	88.7	85.6	86.7	86.3	86.7	84.6	76.6	71.7	77.6	69.8	72.7	72.2	73.8	73.7		135.8
	16000	83.3	85.2	82.0	83.1	82.9	83.1	80.7	72.9	67.1	71.9	64.4	68.9	67.0	68.4	68.2		134.0
	20000	77.7	81.5	77.4	78.4	78.3	78.7	75.5	68.3	65.6	72.5	64.5	68.5	67.1	69.5	70.6		132.6
OVERALL MEASURED		99.3	101.4	100.7	99.8	100.6	102.3	98.0	93.1	90.0	88.9	87.3	86.0	87.0	86.4	88.0		
OVERALL CALCULATED		99.6	101.4	100.8	100.4	101.0	102.1	98.2	93.5	89.6	88.2	86.1	84.6	86.4	85.0	84.4		
PNDR		113.0	114.5	113.8	113.3	114.7	116.0	111.7	107.8	104.2	101.5	100.0	97.2	100.2	98.6	96.8		147.8

	MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)																PHL
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	75.0	77.1	76.9	75.8	75.7	74.1	72.4	72.8	73.0	72.7	71.9	71.7	72.5	73.0	72.9	72.8	123.2
RADIAL 100. FT. (30. M)	63	74.3	74.0	74.0	72.0	75.8	76.1	72.7	70.7	71.0	78.2	70.1	70.0	68.9	70.3	70.8	123.0
VEHICLE ATT	80	69.1	69.1	68.5	67.7	67.4	66.9	66.4	66.4	65.9	65.6	66.7	65.5	65.3	65.6	65.5	116.2
CONFIG 8" IN	100	72.2	71.5	71.8	68.8	70.4	68.9	66.0	66.7	68.0	66.0	66.1	65.0	67.1	66.8	65.1	118.1
LDC PTO	125	70.3	69.5	70.3	70.1	68.0	65.7	67.0	65.1	67.3	65.4	65.4	69.0	66.9	65.5	65.1	117.1
DATE 8/09/74	160	65.2	64.0	66.1	64.0	65.5	63.2	63.7	62.9	64.3	61.0	62.0	61.7	64.6	63.0	62.1	113.3
RUN 639	200	70.3	71.0	70.1	67.0	68.7	66.4	64.6	63.8	64.4	64.1	63.0	61.9	61.7	63.1	61.9	115.0
TAPE A944	250	77.3	77.6	76.1	74.7	72.8	72.1	70.8	69.0	67.1	66.8	67.1	63.9	63.0	63.4	64.9	119.9
BAR 29.0 HG (97790. N/M2)	315	77.3	77.4	78.0	77.0	75.8	73.1	69.8	69.9	68.0	69.2	65.9	64.9	65.9	68.1	65.1	121.5
TAMP 79. DEG F (299. DEG K)	400	75.2	73.9	76.0	73.5	72.6	70.1	68.3	67.6	65.7	66.0	64.8	63.8	65.6	66.2	65.8	119.1
TWET 7. DEG F (295. DEG K)	500	73.8	73.8	74.5	73.5	72.3	71.0	67.4	66.8	66.8	66.8	62.8	63.7	64.7	64.0	64.7	118.7
HACT 16.68 GM/M3 (.01668 KG/M3)	630	80.5	80.5	80.2	81.1	81.0	80.4	75.1	74.0	78.3	75.3	73.4	75.0	76.1	73.4	72.3	127.3
NFA 6975. RPM (730. RAD/SEC)	800	81.2	83.3	84.0	83.9	83.8	81.5	83.5	83.8	86.0	91.3	90.1	84.1	82.9	79.3	78.4	136.6
NFK 6844. RPM (717. RAD/SEC)	1000	78.7	80.4	81.5	80.3	83.2	81.5	78.7	78.2	74.4	77.2	75.1	73.3	76.2	73.4	70.1	128.4
NFD 10628. RPM (1113. RAD/SEC)	1250	81.3	82.2	84.9	84.0	85.6	86.3	84.9	82.0	78.0	79.0	76.4	78.4	78.8	76.2	72.1	132.1
NO. OF BLADES 44	1600	81.5	81.6	82.4	82.5	81.9	82.2	78.8	76.8	73.1	71.2	72.0	70.3	73.8	71.4	69.1	128.0
OVERALL MEASURED	2000	84.5	84.6	86.2	87.3	90.9	92.6	88.8	86.3	81.5	78.3	75.5	74.4	79.3	73.4	76.1	136.4
OVERALL CALCULATED	2500	86.3	86.4	86.8	87.7	89.9	91.3	88.5	85.7	79.5	78.3	77.5	74.1	77.9	75.0	75.8	135.8
	3150	91.3	91.3	92.2	91.3	89.8	91.2	87.8	86.0	81.7	78.6	74.4	76.3	75.9	74.5	74.0	136.7
	4000	92.4	90.4	93.0	91.8	92.9	93.3	91.6	86.0	80.3	76.2	75.2	77.1	78.0	73.2	73.8	138.8
	5000	91.7	96.8	93.5	93.0	95.3	98.5	92.8	89.4	86.4	82.5	81.3	76.3	79.4	79.8	79.5	142.2
	6300	91.7	91.8	92.3	91.1	91.0	92.7	90.2	83.1	78.5	78.6	74.3	74.3	73.3	72.7	72.5	138.3
	8000	90.5	93.3	91.3	92.2	92.1	92.5	88.7	83.1	78.3	74.3	73.0	72.0	73.1	71.9	70.4	138.9
	10000	89.9	91.1	89.8	89.7	90.9	91.2	88.1	80.9	74.7	72.0	70.1	69.9	69.9	69.1	68.9	138.2
	12500	86.8	88.7	86.8	86.5	87.9	84.3	80.7	77.4	71.6	76.8	70.0	72.5	71.4	72.6	72.7	136.1
	16000	83.2	85.3	82.1	83.1	84.0	83.4	80.7	74.8	68.6	74.0	66.3	69.9	68.8	70.4	70.0	134.6
	20000	77.5	80.8	77.3	78.3	77.9	78.8	75.3	69.4	65.6	72.2	63.5	68.2	67.1	68.4	69.4	132.5
		100.3	101.2	100.8	100.8	101.8	103.1	99.5	94.7	92.0	93.1	92.0	89.2	90.0	88.1	88.2	148.8
		100.2	101.8	101.1	100.6	101.6	103.3	99.6	95.7	92.4	93.5	91.9	88.6	89.3	87.2	86.8	
		113.5	115.4	114.3	113.5	115.0	117.1	112.7	109.3	106.0	103.6	102.0	100.1	101.4	100.3	100.0	

MODEL SOUND PRESSURE LEVELS (59 DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PHL
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	76.1	76.3	76.8	75.5	75.6	74.9	73.4	73.8	72.8	72.7	71.9	71.9	72.7	73.7	72.9	73.0	123.5
	63	74.2	73.3	74.0	71.9	74.8	77.0	72.5	70.6	70.1	77.2	70.1	70.0	68.8	70.3	70.9	69.2	122.7
RADIAL 100 FT.	80	68.8	69.0	68.6	67.6	67.3	66.9	66.2	65.6	64.7	64.8	66.7	65.5	64.5	64.8	64.6	65.5	115.8
(30. M)	100	72.1	72.3	71.7	68.9	70.3	68.9	65.8	65.6	66.1	65.1	64.8	65.8	66.9	66.9	70.0	69.1	117.6
VEHICLE ATT	125	71.5	69.3	67.2	68.0	69.8	66.5	65.8	67.1	66.1	65.4	61.3	67.3	68.1	62.4	64.1	66.7	116.5
CONFIG B-M IN	160	65.0	63.9	66.0	63.7	66.5	63.2	62.5	61.6	61.9	60.0	61.0	61.9	62.8	61.1	60.7	62.2	112.6
LOC PTO	200	69.2	70.3	69.9	66.8	69.7	65.4	64.6	63.8	63.0	62.9	61.2	60.2	60.6	62.1	61.9	62.1	114.6
DATE 8/09/74	250	77.2	76.3	75.9	74.8	73.8	72.1	70.6	68.9	67.0	67.1	65.1	63.3	63.7	64.2	65.2	67.2	119.9
RUN 640	315	77.4	78.2	78.1	77.7	75.7	74.4	70.8	69.8	69.0	66.9	62.9	65.1	64.8	64.0	65.7	67.9	121.6
TAPE	400	74.9	75.8	76.7	75.7	75.7	73.1	69.4	68.9	68.9	65.7	62.9	65.0	64.7	64.1	65.7	68.0	120.6
BAR 28.9 HG	500	73.8	74.0	74.6	73.8	73.4	68.8	66.5	66.5	65.1	63.9	62.7	63.7	63.5	63.9	63.7	64.8	118.3
(97723. N/M2)	630	79.6	80.3	81.3	82.3	80.7	76.4	73.1	73.2	73.3	72.4	69.2	72.0	68.8	68.5	68.3	69.1	125.7
TAMP 80. DEG F	800	81.4	78.3	80.1	84.8	84.9	82.3	76.9	86.0	79.4	84.2	86.1	78.4	84.9	78.4	78.4	81.9	133.4
(300. DEG K)	1000	80.4	80.3	83.3	81.1	83.0	79.3	77.1	78.3	73.4	72.4	75.3	74.1	78.0	72.2	71.1	71.0	128.0
TWET 70. DEG F	1250	82.1	84.0	87.1	87.1	89.7	88.2	83.7	84.0	80.1	77.2	77.0	80.2	80.9	81.0	72.8	73.8	134.1
(294. DEG K)	1600	82.2	82.4	84.1	85.9	88.0	87.5	86.0	81.3	78.5	74.3	75.0	74.0	77.0	79.1	71.0	70.9	132.9
HACT. 5.65 GM/M3	2000	85.5	84.2	89.1	89.3	92.1	92.6	88.0	83.0	79.4	78.6	75.3	74.1	78.0	74.3	75.2	75.1	136.5
(.01565 KG/M3)	2500	87.3	87.1	88.1	89.0	91.5	93.3	88.7	84.6	83.0	80.9	79.9	75.8	77.9	76.2	75.9	76.2	137.1
NFA 7093. RPM	3150	90.5	91.1	90.2	91.0	92.1	93.7	89.0	88.1	82.0	79.5	76.5	76.2	76.1	76.4	75.2	73.3	138.1
(743. RAD/SEC)	4000	93.1	90.9	92.9	92.8	93.8	95.2	92.9	86.7	83.0	78.3	77.4	78.1	79.9	73.3	74.9	75.2	140.1
NFK 6957. RPM	5000	91.3	97.3	93.4	93.4	96.1	97.7	92.2	88.1	85.2	82.5	80.5	76.4	80.1	79.7	78.4	75.5	141.9
(728. RAD/SEC)	6300	91.4	91.2	92.2	92.5	92.1	92.6	90.9	84.1	78.4	78.6	74.5	75.2	73.9	73.6	73.5	73.2	138.8
NFD 10628. RPM	8000	90.2	93.2	91.3	90.9	93.1	92.7	88.8	82.2	78.4	74.4	73.0	72.3	72.7	71.5	72.0	71.1	139.0
(1113. RAD/SEC)	10000	90.0	90.9	89.8	91.0	91.7	91.2	87.6	79.9	73.9	71.9	70.2	69.2	69.7	69.2	69.7	68.9	138.5
NO. OF BLADES 44	12500	87.0	89.0	86.9	87.6	88.5	87.1	84.4	76.7	71.9	74.9	69.1	70.7	70.5	71.7	71.7	71.9	136.5
	16000	84.4	86.8	82.4	84.2	85.1	84.5	81.1	73.1	69.2	76.5	68.5	71.1	71.0	72.5	72.2	72.5	135.6
	20000	78.8	81.7	77.8	78.6	80.4	79.0	75.3	68.4	64.9	71.4	63.6	67.9	67.6	69.0	68.6	68.9	133.1
OVERALL MEASURED		100.1	101.2	100.9	100.8	102.9	103.4	98.8	96.1	92.0	91.0	90.3	88.2	90.6	89.0	88.2	89.0	
OVERALL CALCULATED		100.3	101.9	101.1	101.4	103.0	103.6	99.8	95.8	91.9	90.8	90.0	87.7	90.2	88.3	86.8	87.2	149.2
PND8		113.8	115.6	114.3	114.4	116.2	117.0	113.3	109.3	105.6	103.4	101.7	106.5	102.2	100.8	99.7	98.9	



MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FRFQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
	50	74.6	74.9	74.9	73.5	73.7	73.0	70.6	71.8	71.7	71.9	70.0	69.9	70.7	71.2	69.8	70.8	121.5
	63	74.7	74.2	73.9	71.7	74.9	76.1	71.6	70.1	70.9	78.1	69.4	68.9	67.9	70.1	68.1	67.2	122.9
RADIAL 100. FT.	80	69.4	68.8	67.8	67.5	66.8	66.4	66.3	65.6	65.6	65.4	65.8	65.9	64.7	65.0	63.7	65.7	115.8
( 30. H)	100	70.5	70.1	70.1	67.8	69.0	67.0	65.7	66.9	66.8	65.8	65.4	66.9	65.8	66.1	67.1	66.1	116.6
VEHICLE ATT	125	66.9	67.3	66.0	65.7	64.3	63.3	61.7	63.0	63.8	61.9	59.5	60.9	63.1	60.2	62.0	62.3	112.8
CONFIG B-M IN	160	64.8	63.0	64.9	62.9	65.3	61.8	62.6	60.8	62.9	61.9	59.4	60.9	62.0	60.3	57.9	60.1	111.9
LOC PTO	200	69.9	69.9	69.2	65.7	69.0	68.0	68.0	67.2	66.8	69.1	66.2	65.3	66.9	64.3	61.3	63.3	117.0
DATE 8/09/74	250	76.9	76.2	76.2	73.9	73.3	72.1	70.4	68.1	66.9	65.0	63.0	62.1	61.9	62.5	63.1	64.1	119.3
RUN 641	315	78.0	77.3	78.3	76.8	75.1	73.0	69.8	69.0	66.9	68.1	63.5	62.0	63.2	62.5	62.0	64.2	120.8
TAPE A944	400	75.8	76.3	76.1	74.5	73.8	70.9	67.7	65.9	65.6	64.7	62.1	62.1	63.8	62.1	62.1	63.9	119.0
BAR 28.9 HG	500	76.5	74.7	74.9	72.4	72.0	70.9	65.3	67.9	71.7	69.7	70.9	66.7	61.0	66.0	65.8	65.0	119.9
( 97723. N/M2)	630	78.8	78.5	78.4	76.9	75.5	72.2	69.7	67.4	69.1	66.2	66.3	63.5	64.2	64.3	63.3	63.5	121.2
TAMB 80. DEG F	800	77.8	77.1	76.3	74.9	74.0	71.2	69.8	66.9	67.9	66.8	66.3	63.9	63.9	63.4	63.1	62.3	120.0
( 300. DEG K)	1000	79.0	77.5	78.5	76.0	74.3	74.1	70.0	68.3	67.1	67.0	64.6	66.3	66.3	64.6	64.5	64.2	121.2
YWET 7. DEG F	125	79.1	79.3	79.1	78.9	77.4	76.2	72.5	71.2	69.9	66.8	66.1	67.2	68.1	66.4	65.2	63.4	123.3
( 295. DEG K)	1500	80.0	79.3	79.4	78.9	78.3	77.3	73.8	71.5	67.8	67.0	66.2	66.9	67.2	66.3	65.0	63.1	123.3
MACT. 6.54 GM/H3	2000	82.4	81.4	82.5	81.4	81.6	81.6	77.2	74.2	69.1	69.1	67.6	67.1	69.2	66.6	66.5	65.5	126.7
( 1654 KG/H3)	2500	85.0	85.3	85.3	84.9	86.0	85.9	80.8	77.2	72.9	70.8	68.2	68.1	69.8	68.3	67.0	67.0	130.8
NFA 6375. RPM	3150	94.9	96.3	95.3	91.9	91.6	90.1	85.7	82.3	78.2	76.2	73.3	73.1	74.2	72.6	71.5	72.4	137.6
( 667. RAD/SEC)	4000	91.0	90.0	91.1	89.7	91.1	91.8	87.5	81.2	76.9	74.0	72.4	72.9	74.8	70.3	71.0	71.0	136.6
NFK 6253. RPM	5000	90.1	94.5	92.3	93.3	96.3	97.5	93.1	86.5	83.2	79.4	78.7	74.2	79.4	76.6	76.2	72.5	141.6
( 655. RAD/SEC)	6300	90.2	89.6	90.6	89.1	89.6	88.4	86.2	78.4	74.0	74.1	69.7	70.2	70.4	69.7	68.9	69.1	135.4
NFD 10628. RPM	8000	89.2	91.2	89.3	91.0	94.2	92.3	89.7	83.1	79.1	75.0	73.2	71.1	73.9	71.3	72.1	70.2	139.1
( 1113. RAD/SEC)	10000	87.9	86.0	88.1	88.8	89.0	88.9	86.6	78.2	73.7	71.9	69.0	68.1	68.0	68.3	68.2	68.2	136.4
NO. OF BLADES 44	12500	85.4	87.0	83.6	85.3	86.0	85.6	83.5	74.9	72.5	77.7	69.0	71.8	71.4	72.0	71.9	72.7	134.8
	16000	80.7	82.5	80.5	81.1	83.4	82.3	79.1	70.2	65.9	70.0	63.3	65.0	63.5	64.4	64.3	65.1	132.9
	20000	76.3	80.4	75.4	76.4	77.5	76.6	73.0	66.6	66.3	73.5	65.8	68.6	68.3	69.8	67.7	69.7	131.5
OVERALL MEASURED		99.9	100.9	100.0	99.7	100.9	100.9	96.7	91.3	88.7	88.7	85.4	84.8	85.8	85.1	85.0	86.0	
OVERALL CALCULATED		99.8	101.1	100.2	99.5	101.1	101.0	97.4	91.2	87.9	87.9	83.9	82.8	84.6	83.1	82.6	82.2	147.0
PNDH		114.2	115.2	114.5	112.6	114.5	114.7	110.8	105.2	102.1	99.5	98.0	95.6	98.6	96.5	96.1	94.6	

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	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	74.4	74.7	75.7	73.6	74.1	72.7	71.6	72.6	72.6	72.6	71.5	70.1	70.9	72.0	70.8	71.8	122.2
63	74.4	73.9	74.1	71.9	74.0	75.8	70.8	70.0	71.1	79.1	70.5	68.1	68.0	69.4	68.1	67.8	123.0
RADIAL 100. FT. (30. M)	80	68.3	67.6	67.6	66.4	66.6	65.8	65.4	64.7	65.4	65.3	64.6	64.5	64.9	63.1	64.9	115.2
VEHICLE ATT	100	70.7	70.0	71.1	69.7	71.0	68.8	65.5	68.0	67.6	67.8	65.7	64.0	65.9	68.2	69.1	117.9
CONFIG B-M IN	125	66.9	68.1	67.1	66.0	66.3	63.9	62.5	64.0	65.1	62.0	59.7	61.0	63.9	62.0	62.1	113.6
LOC PTO	160	64.6	63.0	65.0	61.9	65.2	62.2	61.6	60.8	62.7	60.0	60.4	60.0	62.0	60.4	58.0	111.7
DATE 8/09/74	200	70.8	70.2	70.1	66.0	69.4	64.9	65.6	64.1	66.8	66.8	64.9	61.2	62.0	63.2	62.3	115.6
RUN 642	250	76.8	76.0	76.2	73.9	74.1	71.9	69.5	68.1	66.9	65.0	64.7	61.9	62.0	62.4	63.5	119.4
TAPE A944	315	77.8	77.3	78.3	76.6	75.0	72.2	69.6	68.2	67.0	65.8	63.5	62.2	63.9	63.2	62.2	120.6
BAR 28.9 HG	400	75.8	75.2	75.1	73.8	74.2	70.8	67.6	65.2	64.6	63.0	63.4	62.0	63.8	63.2	62.9	118.7
(97723. N/M2)	500	77.6	77.0	76.0	73.7	73.1	73.8	69.4	69.0	73.4	71.9	70.6	65.7	67.7	65.1	61.8	121.4
TAMB 8. DEG F	630	79.8	79.3	79.3	77.9	77.4	74.4	72.7	72.4	71.1	70.0	70.0	68.2	67.1	65.9	66.1	123.2
(300. DEG K)	800	79.0	78.1	79.1	77.7	77.4	75.1	71.7	71.0	70.9	70.0	68.7	66.0	69.1	64.2	66.9	122.9
TWET 7. DEG F	1000	80.4	80.4	82.5	80.5	79.5	78.5	74.7	71.4	70.0	69.1	68.9	68.3	69.3	68.6	65.5	125.3
(295. DEG K)	1250	81.9	82.0	83.3	82.0	82.3	82.2	76.7	76.3	71.7	73.0	69.9	71.0	71.2	70.1	65.9	127.7
HACT 16.54 GH/M3	1500	81.3	80.5	82.6	81.3	81.4	81.4	78.0	75.1	72.1	70.9	69.8	68.2	70.2	69.3	66.1	127.1
(.01654 KG/M3)	2000	82.9	82.3	84.4	84.6	87.4	86.5	82.0	80.3	76.2	75.1	74.2	72.2	74.1	72.5	71.3	131.6
NFA 6531. RPM	2500	85.7	86.0	86.2	86.3	88.2	88.2	82.6	80.1	75.9	76.0	73.7	71.1	73.1	71.1	70.2	132.8
(684. RAD/SEC)	3150	93.9	95.3	93.3	91.2	92.2	91.1	97.1	83.5	80.3	77.5	74.1	74.4	74.0	73.6	72.4	137.5
NFK 6406. RPM	4000	91.6	90.2	91.2	91.1	92.1	93.0	88.6	83.3	78.9	74.8	73.9	74.2	75.9	72.2	72.3	137.6
(671. RAD/SEC)	5000	90.9	96.6	94.3	94.4	97.6	100.1	94.0	88.5	87.3	83.1	83.3	77.4	81.5	80.4	78.4	143.6
NFD 10628. RPM	6300	91.0	90.4	90.3	90.2	90.3	89.6	87.1	79.3	75.3	75.4	72.0	71.5	71.3	70.8	69.4	136.2
(1113. RAD/SEC)	8000	89.9	91.4	90.3	92.2	94.2	93.4	88.9	82.2	78.1	73.9	73.0	71.3	73.1	71.5	71.4	139.5
NO. OF BLADES 44	10000	89.6	90.0	89.0	89.7	91.0	90.0	86.8	79.0	73.9	72.0	70.5	69.1	68.6	69.2	67.1	137.5
MEASURED	12500	86.3	87.6	84.9	86.7	86.8	86.7	83.7	75.8	72.4	77.8	69.5	72.5	71.7	73.7	72.6	135.6
CALCULATED	16000	81.9	84.2	81.4	82.9	84.2	83.4	79.9	70.3	66.3	70.1	63.7	64.0	64.3	67.5	65.3	133.9
OVERALL MEASURED	20000	77.5	83.4	76.8	77.2	78.6	77.4	74.2	67.5	66.1	73.5	64.9	68.6	67.5	70.6	68.5	132.2
OVERALL CALCULATED	99.8	101.7	99.9	99.7	102.3	102.2	97.5	92.9	96.7	69.9	88.2	86.2	86.9	86.1	86.0	86.3	
PNDH	100.2	101.7	100.5	100.5	102.2	103.0	98.1	92.0	90.4	68.6	86.8	84.3	86.1	85.2	83.9	83.7	148.3
	114.0	115.2	114.0	113.7	115.9	117.1	111.9	107.1	105.2	102.3	101.5	97.9	100.5	99.3	97.7	96.9	

MODEL SOUND PRESSURE LEVELS (59 DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL	
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
PHLQ	59	75.3	75.1	76.0	73.8	74.8	73.9	71.6	73.0	71.7	72.9	71.5	70.9	72.7	72.0	71.1	72.2	122.5
	63	74.8	73.2	74.2	71.7	76.9	76.9	71.6	70.1	70.9	79.2	70.2	69.0	69.8	69.2	69.3	67.8	123.4
RADIAL 100 FT.	80	68.2	68.7	67.8	66.6	66.9	66.7	66.3	65.6	65.4	65.7	67.1	65.5	66.3	65.7	64.1	68.0	116.1
(30 M)	100	69.8	69.2	70.9	68.8	70.3	67.9	67.0	68.7	67.0	66.1	65.8	65.7	69.2	67.1	68.3	68.3	117.9
VEHICLE ATT	125	66.8	67.3	66.3	66.2	66.2	65.0	62.7	64.2	64.8	62.1	60.3	61.2	63.8	62.6	62.2	64.2	113.8
CONFIG B-M IN	160	64.6	63.0	64.9	61.9	64.9	62.1	62.7	60.9	62.6	60.0	60.3	60.9	62.8	61.1	58.9	62.1	111.9
LOC PTO	200	70.8	71.2	70.2	66.2	69.1	64.9	64.7	64.0	65.7	68.0	62.6	64.4	60.8	63.3	62.3	64.4	115.7
DATE 8/09/74	250	76.9	76.1	76.0	73.9	74.3	71.9	69.7	68.1	67.8	65.1	63.2	63.0	62.1	62.5	63.3	64.3	119.5
RUN 643	315	78.0	79.1	80.1	78.9	77.9	75.0	70.6	69.1	68.9	67.7	64.6	64.0	66.0	63.5	62.2	65.4	122.6
TAPE A944	400	76.5	74.9	76.0	74.6	74.1	72.2	67.5	65.8	64.6	63.6	63.1	62.8	64.8	65.2	63.0	65.1	119.2
BAR 28.9 HG	500	78.7	75.9	76.0	75.6	74.8	75.8	70.4	69.6	72.7	73.8	72.3	64.7	64.8	66.1	65.0	64.9	122.3
(97723 N/M2)	630	79.2	79.4	79.5	77.2	77.2	76.4	72.9	71.2	69.9	71.3	68.4	68.3	68.2	66.4	65.2	66.0	123.3
TAMB 81 DEG F	800	78.1	77.3	80.2	77.7	77.0	74.0	72.5	71.2	70.9	70.1	65.3	65.2	71.1	65.2	63.3	66.0	122.9
(300 DEG K)	1000	80.0	80.6	81.5	80.4	78.3	77.4	73.7	71.2	68.9	68.3	67.6	68.3	68.1	66.6	64.5	66.2	124.5
THET 7 DEG F	1250	81.8	81.3	83.3	83.3	81.2	81.2	74.8	74.3	71.8	71.8	69.3	71.1	71.1	71.4	66.3	66.0	127.0
(293 DEG K)	1500	80.1	80.3	81.3	81.1	80.1	80.1	76.9	74.8	70.1	70.2	69.5	69.9	70.2	68.5	66.3	64.0	126.1
HACT 15.8 GH/M3	2000	83.0	81.6	83.5	83.6	85.5	84.5	81.1	78.5	74.2	72.3	71.5	71.1	72.5	71.7	68.5	69.1	129.9
(.01588 KG/43)	2500	85.9	85.3	86.2	85.9	87.2	86.9	81.8	79.0	75.9	75.9	72.4	70.8	72.3	70.5	69.9	68.8	132.0
NFA 6532 RPM	3150	94.0	95.6	94.4	92.2	91.5	90.6	87.1	84.2	80.1	77.1	74.4	74.2	74.3	73.4	71.5	72.4	137.6
(694 RA/SEC)	4000	91.7	90.4	91.3	91.1	91.0	92.2	88.9	83.2	79.1	74.8	73.5	74.1	75.2	71.2	72.3	71.9	137.2
NFK 6401 RPM	5000	90.9	96.3	94.5	93.2	97.5	99.4	94.1	88.6	86.3	82.1	82.8	76.4	79.3	74.6	78.5	75.3	143.2
(670 RAD/SEC)	6000	91.3	90.7	90.5	90.3	89.3	89.7	87.3	79.4	75.3	75.3	71.5	71.5	70.4	70.4	68.7	69.5	136.1
NFD 10628 RPM	8000	89.8	91.2	90.2	92.1	94.1	93.4	88.9	83.2	79.2	73.8	73.3	71.3	72.9	70.6	71.2	70.4	139.5
(1113 RAD/SEC)	10000	88.7	89.1	89.2	90.6	90.1	90.4	86.9	80.1	74.0	72.0	69.5	69.1	68.7	68.4	67.3	67.9	137.6
NO. OF BLADES 44	12000	86.7	87.8	84.7	86.5	86.8	86.7	84.6	75.8	71.6	76.5	69.1	71.9	71.5	72.9	71.8	72.0	135.6
	16000	83.3	83.6	81.6	82.2	83.2	83.2	79.9	71.2	66.3	69.9	62.8	65.3	63.9	65.7	64.5	65.5	133.5
	20000	77.7	79.7	75.7	77.3	78.7	78.6	74.3	66.9	65.4	73.4	64.0	67.8	66.7	69.1	67.9	69.8	132.2
OVERALL MEASURED		99.8	101.2	100.2	99.7	101.2	102.3	97.6	92.9	90.0	89.8	88.2	85.1	87.2	86.2	86.3	87.3	
OVERALL CALCULATED		100.2	101.6	100.8	100.4	101.8	102.5	98.2	92.9	89.9	88.1	86.3	84.1	85.3	84.7	83.6	83.3	148.0
PNDH		114.0	115.1	114.6	113.3	115.6	116.5	111.9	107.1	104.5	101.6	101.0	97.4	99.2	94.7	97.5	96.2	

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MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	(0.0°)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	74.7	74.7	75.7	73.7	74.8	73.0	71.6	72.9	72.7	73.5	71.9	70.8	71.7	72.2	71.0	72.1	122.5
	63	74.8	73.2	74.2	70.9	76.3	76.4	71.7	69.8	70.9	78.9	70.4	69.1	69.1	69.3	69.1	69.0	123.1
RADIAL 100. FT.	80	69.3	68.6	68.6	67.5	67.6	66.9	66.4	65.4	64.5	66.6	66.8	65.9	65.7	65.8	63.8	66.0	116.2
( 30. M )	100	70.6	69.9	70.9	68.6	70.2	68.1	66.6	68.8	68.6	68.1	67.3	65.9	65.9	69.3	67.9	69.0	118.1
VEHICLE ATT	125	67.7	68.1	66.3	66.1	66.0	64.9	62.5	64.9	64.9	63.1	61.6	62.2	64.2	62.6	62.4	63.1	114.0
CONFIG 8" M IN	160	64.9	63.1	64.9	62.6	66.0	63.1	62.8	61.1	62.6	62.7	61.2	61.0	63.1	60.0	58.9	60.9	112.4
LOC PTO	200	70.9	70.2	70.9	66.9	69.4	65.0	64.6	64.1	55.7	67.0	63.2	63.4	61.2	62.5	62.1	64.0	115.6
DATE 8/09/74	250	77.8	76.4	76.2	74.7	73.4	72.0	69.4	67.9	66.8	64.8	63.2	62.3	62.1	62.2	63.3	64.4	119.4
RUN 643A	315	78.0	78.4	79.2	77.7	77.0	74.0	69.5	69.1	66.1	68.0	65.2	64.0	65.1	63.2	63.4	66.5	121.9
TAPE A944	400	76.8	75.8	76.8	74.6	73.9	72.1	67.7	66.0	64.6	63.9	65.1	64.9	65.9	67.3	64.3	67.1	119.7
BAR 28.9 HG	500	76.4	74.8	75.0	75.6	75.1	75.9	71.2	69.9	72.6	73.8	72.2	63.0	64.8	68.2	66.0	64.1	122.3
(97723. N/M2)	630	79.0	78.4	79.3	76.9	78.5	76.3	73.7	71.2	69.1	72.2	68.6	68.3	68.3	66.4	65.5	67.6	123.5
TANG 81. DEG F	800	76.9	77.4	79.1	78.0	76.1	74.0	72.5	71.0	70.7	71.0	67.4	65.6	69.8	65.4	63.1	67.1	122.7
(1300. DEG K)	1000	80.2	80.3	81.6	79.1	77.5	76.2	72.7	70.1	68.2	68.1	66.6	67.5	70.1	66.6	65.5	66.5	123.9
TWET 71. DEG F	1250	80.8	82.1	83.1	82.1	81.3	81.0	75.5	74.2	70.0	71.1	69.4	70.0	70.1	70.2	66.3	65.3	126.9
(295. DEG K)	1600	80.9	80.3	82.4	81.2	81.1	80.0	74.9	74.2	70.1	69.0	69.3	68.1	69.0	68.6	66.4	65.4	126.3
HACT 15.80 GH/M3	2000	83.2	82.2	84.4	84.3	86.8	84.2	80.0	79.4	74.3	72.3	70.4	70.4	72.2	70.4	69.3	68.6	130.4
(.01580 KG/M3)	2500	85.8	85.3	86.1	86.9	88.2	88.2	82.8	79.3	75.8	75.0	72.3	71.2	72.1	70.3	70.2	68.9	132.8
NFA 6537. RPM	3150	93.9	94.5	93.2	90.9	91.3	90.3	87.1	84.3	79.3	77.3	73.5	74.0	74.2	73.5	71.5	72.4	137.0
( 684. RAD/SEC)	4000	91.9	90.4	92.0	91.8	92.5	92.0	88.8	83.3	78.8	76.1	73.3	72.9	76.1	71.4	72.1	73.0	137.7
NFK 6406. RPM	5000	92.0	96.3	94.6	94.3	99.6	101.5	95.9	90.2	86.2	82.1	81.4	76.5	80.4	79.8	78.8	75.2	144.9
( 671. RAD/SEC)	6300	91.4	90.4	90.6	90.1	90.7	89.4	86.0	80.4	75.3	75.6	71.3	71.5	71.5	70.5	69.5	70.5	136.4
NFD 10628. RPM	8000	90.0	91.3	90.2	91.1	94.3	92.2	89.0	82.2	78.1	73.9	72.4	71.0	72.0	70.5	70.7	70.1	139.0
(1113. RAD/SEC)	10000	88.9	89.1	89.3	89.8	91.1	90.3	86.9	79.3	74.2	71.9	69.4	69.2	69.0	67.6	67.2	68.0	137.7
NO. OF BLADES 44	12000	85.7	86.8	85.1	86.6	87.2	86.9	83.6	75.0	71.7	76.8	69.1	71.9	71.7	72.0	72.0	72.7	135.6
	16000	82.2	83.6	81.3	82.2	83.5	83.2	79.8	71.4	66.2	70.1	63.3	64.1	64.2	64.4	63.5	66.2	133.6
	20000	77.6	79.8	75.9	76.7	79.0	77.9	74.5	67.0	65.6	72.4	64.7	67.5	67.5	68.0	67.9	69.6	132.0
OVERALL MEASURED		99.9	101.0	100.9	100.0	102.1	103.0	98.5	92.9	89.8	89.8	87.5	85.1	87.2	86.5	86.0	87.3	
OVERALL CALCULATED		100.3	101.3	100.7	100.3	103.0	103.6	99.0	93.6	89.6	88.3	85.6	83.9	85.6	84.7	83.8	83.4	
PNDP		114.1	114.9	114.2	113.7	117.0	117.7	113.0	108.1	104.3	101.6	100.2	97.3	99.8	98.9	97.8	96.3	148.6

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	FRFQ.	(0.0°)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	75.4	76.1	77.1	74.5	74.9	73.9	72.4	73.0	72.5	72.6	71.1	70.8	71.9	72.3	71.2	72.1	122.7
	63	74.9	74.3	74.2	71.9	76.1	76.2	72.8	71.1	71.1	77.9	70.3	69.9	68.2	70.2	69.2	68.0	123.0
RADIAL 100. FT.	80	69.4	68.6	68.8	67.3	67.9	66.7	66.2	65.7	64.7	64.7	66.3	65.6	64.5	64.8	62.8	64.9	115.8
(30. H)	100	71.6	70.9	72.1	69.5	71.1	69.0	65.6	68.0	68.7	65.8	66.1	67.1	65.9	69.2	70.1	71.0	116.5
VEHICLE ATT	125	68.8	69.3	69.4	67.9	68.4	66.0	63.9	66.9	66.6	64.1	61.6	64.9	65.0	63.4	63.2	66.2	115.7
CONFIG 3" M IN	160	65.8	63.2	65.3	62.9	66.3	63.1	62.5	63.1	64.0	63.8	61.6	60.9	62.8	60.5	59.4	61.2	112.9
LDC PTO	200	70.7	70.1	69.2	65.9	68.3	66.0	64.6	64.9	63.8	63.8	62.5	59.9	61.0	61.2	61.2	61.3	114.5
DATE 8/09/74	250	76.6	76.4	76.2	73.5	73.2	72.0	69.7	68.9	66.9	65.0	64.4	61.9	63.0	63.2	64.5	64.2	119.4
RUN	315	78.8	78.2	78.2	76.9	76.1	74.3	69.6	70.2	68.7	67.0	63.2	61.3	65.1	64.2	64.4	64.0	121.4
TAPE	400	76.0	75.1	74.8	73.5	74.1	71.0	66.5	65.9	64.8	63.7	62.4	61.1	65.0	64.2	62.3	64.4	118.6
BAR 28.9 HG	500	75.4	73.9	73.9	74.4	77.1	72.9	66.4	64.7	71.7	73.5	69.2	67.7	70.9	64.1	66.9	66.9	121.6
(97723. N/M2)	630	79.3	79.1	80.5	80.2	81.7	76.4	73.9	70.2	75.9	77.2	75.7	71.0	72.3	69.6	70.9	70.1	126.3
TAMB 81. DEG F	800	81.0	78.9	80.2	79.0	77.3	74.3	74.6	68.0	71.6	68.1	72.5	69.2	69.9	65.4	67.1	64.0	123.7
(300. DEG K)	1000	78.3	79.4	81.7	77.9	79.5	78.4	74.0	71.4	69.0	67.1	68.4	68.3	69.3	67.7	65.1	65.3	124.5
TJET 7. DEG F	1250	81.0	83.0	82.4	79.8	80.2	79.2	75.6	73.2	73.8	73.0	68.5	72.1	74.0	70.5	67.0	65.1	126.4
(295. DEG K)	1600	80.9	81.1	81.3	80.8	80.4	79.4	76.8	73.5	70.9	70.1	68.5	68.3	69.1	69.4	67.0	65.5	125.9
MACT 15.80 G/M <sup>3</sup>	2000	83.0	82.5	84.6	84.2	85.7	85.4	81.1	78.8	74.1	72.3	71.5	70.4	73.1	70.7	69.1	68.5	130.5
(.01580 KG/M <sup>3</sup> )	2500	85.5	85.0	87.0	87.7	89.5	90.1	84.8	82.0	74.8	73.7	72.4	71.9	75.1	72.4	69.9	78.2	134.2
NFA 6727. RPM	3150	91.2	92.5	91.6	90.1	90.5	90.4	85.7	83.5	79.2	76.3	74.5	73.1	75.3	72.3	71.0	72.5	136.1
(704. RAD/SEC)	4000	92.0	90.3	92.1	91.9	92.3	92.1	88.6	83.3	79.8	75.8	73.5	74.0	76.1	72.2	72.3	73.1	137.7
NFK 6592. RPM	5000	91.0	96.3	93.7	94.3	97.5	98.6	92.9	88.6	86.1	82.2	81.8	75.2	80.8	79.8	78.2	75.5	142.8
(690. RAD/SEC)	6300	91.0	93.7	91.6	90.2	90.6	90.7	88.8	80.4	77.3	77.5	72.6	72.3	72.3	71.8	70.3	71.5	136.9
NFD 10628. RPM	8000	90.9	92.4	90.4	91.1	93.6	92.4	87.9	81.5	78.1	73.2	72.6	71.3	72.3	70.4	70.1	69.6	138.8
(1113. RAD/SEC)	10000	89.9	90.4	89.4	89.7	91.2	90.2	88.7	79.3	74.0	72.0	69.2	68.2	68.9	68.3	67.3	68.2	137.7
NO. OF BLADES 44	12000	85.6	88.1	84.8	85.6	87.4	86.2	83.5	74.9	71.6	77.0	69.1	71.0	71.7	73.2	72.0	72.9	135.4
	16000	82.0	83.1	80.6	82.1	83.3	83.5	79.9	70.5	66.3	69.4	62.6	65.3	65.0	66.7	65.2	66.3	133.5
	20000	76.6	79.0	76.0	76.4	78.7	78.0	73.5	66.7	65.4	72.7	63.9	67.8	66.9	69.1	66.9	69.7	131.9
OVERALL MEASURED		99.9	100.7	100.3	100.0	100.6	101.7	97.6	93.3	89.9	89.8	87.5	86.2	87.1	86.5	86.3	87.2	
OVERALL CALCULATED		99.8	101.3	100.4	100.2	102.1	102.2	97.6	92.6	89.9	88.3	86.2	84.2	86.4	84.9	83.9	83.7	147.9
PNDH		113.1	114.9	113.7	113.7	115.8	116.1	111.2	107.1	104.5	101.8	100.6	97.0	100.5	98.9	97.7	96.6	

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	MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)															PWL		
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	76.7	76.8	75.7	73.9	74.7	73.7	71.5	72.0	71.5	72.7	70.9	70.0	70.8	72.0	70.1	71.9	122.2	
63	74.8	75.4	74.2	71.7	76.1	76.9	71.7	69.9	71.6	78.9	69.4	69.0	68.0	70.1	69.3	67.5	123.2	
RADIAL 100. FT. (30. M)	80	70.3	70.7	68.6	66.5	67.6	66.6	66.2	65.5	64.4	64.8	66.0	64.7	64.8	64.8	62.5	64.6	115.6
100	71.4	70.6	70.2	68.8	70.3	69.0	65.7	67.6	68.5	67.8	66.2	64.8	66.0	68.3	68.1	68.4	117.8	
VEHICLE ATT	125	68.7	69.3	67.2	65.6	66.2	67.0	62.9	64.2	64.7	62.1	60.3	61.0	63.9	62.3	62.1	63.5	114.1
CONFIG B*H IN	160	65.8	63.9	65.1	62.5	65.9	66.0	61.5	60.7	62.6	60.7	59.4	60.2	61.9	60.0	59.2	61.4	112.3
LOC PTO	200	70.7	70.4	69.1	66.5	69.0	68.2	65.6	64.9	66.4	66.9	64.4	63.2	61.9	63.4	62.4	64.2	115.9
DATE 8/09/74	250	76.9	76.2	76.0	73.4	73.3	71.9	69.6	68.2	67.3	65.0	63.4	61.9	62.1	62.1	64.0	64.4	119.2
RUN 645	315	78.0	78.0	77.2	75.5	75.2	72.1	69.8	68.3	66.8	66.8	62.4	62.3	63.9	62.5	62.0	65.2	120.3
TAPE A944	400	75.8	75.0	76.0	73.7	74.1	71.9	67.7	66.0	64.4	63.7	62.4	61.9	63.1	63.0	62.0	64.1	118.9
BAR 28.9 HG	500	75.7	76.0	73.7	73.5	72.8	75.0	69.3	66.8	73.7	72.8	71.0	65.6	64.9	63.4	62.8	64.0	121.3
(97723. N/M2)	630	78.3	78.5	78.5	77.1	76.1	73.2	70.9	70.4	70.1	70.3	69.6	67.4	66.3	64.6	65.3	67.4	122.2
TAMP 81. DEG F	800	77.8	77.0	76.9	74.7	74.2	72.3	69.9	68.4	68.9	68.1	64.4	64.0	65.9	62.2	64.1	65.5	120.4
(300. DEG K)	1000	78.2	78.4	79.3	75.9	76.4	74.7	72.0	68.6	66.4	66.5	64.4	65.6	66.4	64.4	63.3	64.4	121.9
THET 7.1 DEG F	1250	79.1	80.0	80.1	78.7	78.3	77.1	72.7	71.3	68.9	69.1	66.4	67.2	67.9	67.3	65.0	64.5	123.9
(295. DEG K)	1500	79.9	79.9	80.2	78.8	79.2	79.0	73.7	73.3	70.2	69.0	67.2	66.3	68.3	66.7	65.4	64.6	124.7
HACT 15.8 GM/M3	2000	82.2	81.2	82.3	82.9	83.2	81.4	77.1	75.5	72.1	72.1	68.5	69.2	70.3	68.6	67.3	67.5	127.8
(.01588 KG/M3)	2500	84.8	84.2	85.0	84.7	86.3	85.2	81.7	77.3	73.8	72.9	70.4	69.0	71.1	69.3	68.2	67.3	131.1
NFA 6540. RPM	3150	93.2	96.2	94.5	91.9	91.5	91.4	87.0	84.6	79.4	77.2	73.4	74.2	74.4	72.4	71.5	71.3	137.8
(685. RAD/SEC)	4000	91.7	90.3	91.0	90.7	91.3	91.1	87.7	82.5	79.2	75.1	72.2	73.0	75.2	71.2	72.3	72.2	136.7
NFK 6409. RPM	5000	90.1	96.3	92.5	92.3	97.5	98.2	93.0	87.7	87.2	82.4	79.8	75.1	79.3	78.5	77.7	74.6	142.4
(671. RAD/SEC)	6300	90.2	90.7	90.3	89.4	89.8	88.4	86.3	78.8	74.5	75.4	70.5	71.3	71.6	69.7	69.4	70.2	135.6
NFD 10628. RPM	8000	89.9	92.3	90.2	91.9	95.5	93.2	88.8	83.6	79.4	75.0	74.3	72.4	74.0	71.5	72.4	71.1	139.9
(1113. RAD/SEC)	10000	88.7	89.2	88.1	88.9	90.2	89.4	86.8	80.3	74.9	72.8	70.2	69.1	68.9	68.4	68.1	68.9	137.0
NO. OF BLADES 44	12500	85.5	87.2	85.0	85.5	87.2	85.9	83.4	75.8	72.9	76.9	69.2	71.6	71.7	72.1	71.7	72.6	135.2
15000	81.2	83.3	80.4	82.0	83.3	82.4	79.9	72.5	67.2	69.3	63.5	64.5	65.3	64.6	64.3	65.1	133.3	
20000	77.5	79.7	75.6	76.5	78.0	77.8	74.6	67.8	65.6	72.6	65.1	68.1	67.5	69.0	67.8	68.9	131.8	
OVERALL MEASURED	99.6	101.0	100.1	99.9	101.4	100.9	96.9	92.7	99.9	88.8	86.5	86.1	85.8	85.4	85.2	86.0		
OVERALL CALCULATED	99.6	101.8	100.1	99.6	102.0	101.6	97.4	92.4	90.1	88.0	84.6	83.3	84.9	83.8	83.2	82.9	147.6	
PWR	113.4	115.4	114.2	112.5	115.4	115.4	110.8	108.3	104.8	101.5	98.8	96.4	98.8	97.6	97.0	95.7		

REPRODUCIBILITY OF THE ORIGINAL DATA IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ. (C.)	0° (0.0)	10° (0.17)	20° (0.35)	30° (0.52)	40° (0.70)	50° (0.87)	60° (1.05)	70° (1.22)	80° (1.40)	90° (1.57)	100° (1.75)	110° (1.92)	120° (2.09)	130° (2.27)	140° (2.44)	150° (2.62)	PHL
	50	75.3	76.0	76.8	74.6	74.9	74.0	72.6	72.9	72.5	72.5	71.2	70.9	72.0	72.2	70.8	72.7	122.7
	63	74.6	74.2	74.1	71.9	76.1	77.2	71.8	76.0	78.8	78.8	70.3	69.1	68.2	66.1	69.0	68.2	123.2
RADIAL 100 FT. (30. M)	80	68.4	68.9	68.6	67.6	67.7	66.8	66.1	65.8	65.4	65.6	66.0	65.5	64.6	65.0	62.8	64.7	115.9
VEHICLE ATT CONFIG 9" IN	100	71.7	70.2	71.8	68.7	69.9	69.1	66.4	68.9	68.6	66.8	65.4	65.1	66.1	66.8	69.8	70.8	118.2
LOC PTO	200	69.8	70.3	69.2	65.7	68.1	66.1	64.9	65.9	65.7	63.8	61.5	59.9	61.0	61.4	61.2	63.0	114.8
DATE 8/09/74	250	76.8	76.3	76.2	73.9	74.1	72.1	69.9	69.0	67.7	65.0	63.4	61.9	62.9	62.3	63.1	64.0	119.6
RUN 646	315	79.0	78.2	79.2	76.8	77.2	75.0	69.9	70.1	70.6	66.8	63.2	61.3	66.2	65.4	62.0	64.0	122.0
TAPE A944	400	75.5	75.1	75.8	73.6	73.2	70.1	66.7	66.0	65.6	63.7	62.3	61.6	64.1	63.3	63.3	63.9	118.5
BAR 28.9 HG	500	74.3	73.8	73.7	73.5	75.0	71.8	65.4	67.0	71.5	72.7	68.8	69.9	70.0	64.1	66.0	65.7	120.9
(97662 N/M2)	630	79.1	78.2	79.3	77.9	79.2	75.2	71.9	71.4	74.1	76.0	75.5	71.2	70.1	69.3	68.5	66.4	124.8
TAMP 81 DEG F	800	78.9	77.1	78.0	75.9	75.0	74.3	74.6	69.2	67.7	69.7	72.1	64.2	71.2	63.4	66.0	65.2	122.2
(300 DEG K)	1000	78.1	77.4	78.3	76.1	75.4	76.4	71.3	68.3	67.0	65.9	65.6	66.3	66.4	65.6	64.3	64.2	121.9
TWET 7 DEG F	1250	78.3	79.3	79.2	78.1	77.1	76.2	72.8	71.2	68.9	66.9	66.6	67.2	69.1	67.4	65.4	64.0	123.2
(293 DEG K)	1500	78.9	79.4	79.5	79.0	78.4	77.3	72.8	70.2	68.9	67.1	66.7	66.3	67.1	66.5	65.4	63.1	123.6
HACT 6.11 GM/M3	2000	81.9	81.3	82.3	82.2	82.5	81.5	76.9	74.4	72.2	71.3	68.5	68.2	71.2	68.5	67.3	66.4	127.3
(0.1611 KG/M3)	2500	83.8	84.1	85.0	84.0	85.9	86.2	81.6	76.7	73.6	71.7	70.2	69.1	70.8	69.4	68.0	67.9	130.8
NFA 6725 RPM	3150	91.9	93.6	92.3	90.3	89.6	89.4	85.1	81.5	77.9	75.3	72.6	72.1	72.2	71.3	70.2	70.4	135.7
(764 RAD/SEC)	4000	91.7	89.4	91.4	91.0	91.3	90.1	86.9	82.3	77.0	73.7	72.4	73.2	74.1	70.4	70.9	72.2	136.4
NFK 6587 RPM	5000	89.2	94.6	92.2	91.0	94.6	95.3	91.2	86.6	84.2	80.4	78.6	74.3	78.7	77.9	76.4	73.4	140.1
(690 RAD/SEC)	6300	91.3	90.8	90.4	89.4	89.5	88.7	86.2	79.3	74.3	75.2	70.9	71.5	71.6	70.4	69.4	70.3	135.6
NFD 10628 RPM	8000	89.7	92.2	89.2	91.9	93.5	92.4	88.0	81.1	78.1	73.2	73.3	71.3	73.0	71.5	71.4	70.2	138.9
(1113 RAD/SEC)	10000	88.7	90.2	89.2	89.1	91.3	89.6	86.7	79.3	73.9	72.0	70.2	69.2	69.1	68.4	68.2	69.1	137.4
NO. OF BLADES 44	12500	85.5	88.1	84.7	85.7	87.9	87.1	83.2	75.9	72.4	77.5	69.1	71.8	71.9	71.1	71.7	72.9	135.7
	16000	82.9	83.8	80.5	82.7	84.5	83.3	80.1	71.1	67.2	71.3	63.8	65.6	65.3	65.9	65.2	66.2	133.9
OVERALL MEASURED	20000	76.6	80.7	75.7	76.6	79.8	77.9	74.4	66.6	65.6	73.7	64.3	67.7	67.8	68.0	66.8	69.5	132.3
OVERALL CALCULATED		99.3	100.8	99.7	99.2	100.7	100.2	96.4	91.2	88.4	87.5	84.7	83.3	84.8	83.8	83.0	83.0	146.7
PWR		112.6	113.8	113.0	111.9	113.6	113.5	109.7	105.3	102.9	100.2	98.4	96.0	98.7	97.4	96.4	95.1	

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	FREQ.	(0.0°)	(0.17°)	(0.35°)	(0.52°)	(0.70°)	(0.87°)	(1.05°)	(1.22°)	(1.40°)	(1.57°)	(1.75°)	(1.92°)	(2.09°)	(2.27°)	(2.44°)	(2.62°)	PWL
	50	75.8	75.8	77.0	74.7	75.1	74.1	72.3	73.1	72.5	73.5	72.2	71.7	71.9	72.2	72.1	77.0	123.3
	63	74.9	74.0	74.2	71.7	77.1	76.1	72.7	71.2	71.6	79.0	70.1	69.9	69.0	70.1	71.0	73.9	123.6
RADIAL 100. FT.	80	69.5	68.6	68.9	67.7	67.6	66.6	66.1	65.8	65.4	65.6	66.9	65.8	65.5	66.0	64.8	72.5	116.8
(30. M)	100	72.0	71.2	71.1	68.7	70.9	68.2	66.6	65.8	66.8	65.0	65.3	64.9	66.2	67.1	70.1	72.1	117.8
VEHICLE ATT	125	70.8	70.3	70.0	69.8	67.2	65.9	64.8	65.2	65.8	66.3	63.2	68.1	68.1	62.3	64.3	68.0	116.6
CONFIG 8-M IN	160	66.0	63.9	66.2	63.8	66.0	62.9	62.7	61.8	62.6	62.0	60.4	61.5	63.8	61.1	60.9	64.9	112.9
LOC PTD	200	70.1	70.4	70.1	66.9	69.4	66.0	64.8	62.9	63.0	63.8	61.2	59.9	59.9	61.5	60.0	63.2	114.6
DATE 8/09/74	250	76.9	77.0	76.2	74.7	74.2	72.3	69.5	68.9	66.7	66.8	66.1	63.0	62.1	62.6	63.1	65.1	119.9
RUN 647A	315	78.3	77.2	78.1	76.8	76.2	72.9	70.8	71.0	67.9	66.8	63.5	61.9	64.1	64.2	64.2	67.2	121.3
TAPE A944	400	75.9	75.0	76.0	73.8	73.9	70.1	68.4	68.9	65.6	64.9	64.5	64.3	65.1	65.4	65.1	66.1	119.3
BAR 28.9 HG	500	73.8	74.1	73.8	73.7	73.8	70.9	66.4	67.8	68.6	64.8	62.2	64.1	63.7	63.2	63.8	64.9	118.8
(97662. N/M2)	630	80.4	79.3	79.5	81.0	81.4	79.2	74.0	74.6	78.2	74.0	71.5	74.4	73.4	71.5	70.3	70.1	126.7
TANS 81. DEG F	800	81.1	81.3	84.3	80.1	81.2	87.0	85.6	84.2	86.7	91.2	90.2	82.9	83.1	79.6	79.6	75.9	136.5
(300. DEG K)	1000	78.4	78.5	80.3	78.5	79.1	77.3	73.7	74.3	73.9	75.3	74.3	71.4	74.0	71.4	68.8	66.2	125.5
THET 7. DEG F	1250	81.1	82.3	82.1	81.1	82.2	82.2	77.9	81.5	75.9	75.1	75.2	76.2	78.4	75.2	69.2	69.2	129.1
(293. DEG K)	1600	82.2	80.4	81.3	81.0	80.1	80.1	75.7	73.5	71.1	70.2	69.3	68.3	71.2	69.3	66.5	66.3	126.2
HACT 16.11 GM/M3	2000	84.5	83.3	85.4	86.0	87.5	87.1	82.9	81.8	76.0	73.9	72.4	72.4	75.3	70.7	70.5	71.5	132.2
(.01611 KG/M3)	2500	86.0	85.9	86.2	87.7	89.0	89.2	85.5	82.5	79.0	77.0	75.4	71.1	75.2	72.2	71.9	69.9	134.1
NFA 6988. RPM	3150	91.2	91.6	92.3	91.0	90.4	91.3	87.0	84.7	79.8	77.2	73.3	74.2	74.3	72.3	71.4	71.1	136.7
(732. RAD/SEC)	4000	93.3	91.1	92.1	91.8	93.3	93.3	90.6	85.6	79.8	76.0	74.1	75.1	78.0	71.4	73.0	74.2	138.6
NFK 6844. RPM	5000	92.3	97.6	93.6	93.0	96.6	98.5	91.9	88.8	87.0	83.1	81.4	77.2	80.5	79.9	78.4	74.2	142.4
(717. RAD/SEC)	6300	92.7	91.6	91.6	91.1	91.3	91.6	89.9	82.8	78.3	78.2	73.7	73.4	73.5	72.8	71.5	72.4	137.9
NFD 10628. RPM	8000	92.5	93.3	91.0	91.2	93.3	92.3	87.7	82.8	79.1	74.1	73.3	71.3	72.9	71.3	71.5	70.4	138.8
(1113. RAD/SEC)	10000	91.3	91.3	90.2	90.9	91.1	90.4	87.6	80.6	75.8	73.1	70.2	69.2	69.9	69.4	68.1	69.9	138.2
NO. OF BLADES 44	12500	97.7	88.9	86.0	86.0	87.9	86.9	84.5	76.9	72.4	76.7	68.8	71.7	71.0	71.8	70.8	71.7	136.1
	16000	84.2	85.5	82.5	83.3	85.2	83.4	80.9	73.6	69.2	74.3	66.7	69.2	69.4	70.6	68.3	70.4	134.9
	20000	78.8	81.0	77.7	77.7	79.8	78.8	75.5	69.0	65.3	72.3	63.9	67.6	67.8	68.8	66.8	68.8	132.8
OVERALL MEASURED		100.9	101.3	100.1	99.9	102.3	102.4	98.6	95.3	92.3	93.8	91.5	88.2	88.9	87.5	87.3	90.6	
OVERALL CALCULATED		101.0	102.1	100.7	100.4	102.0	102.5	98.4	94.6	92.3	93.3	91.7	87.4	88.6	86.5	85.6	85.6	
PND8		114.1	115.6	113.8	113.3	115.5	116.4	111.4	108.4	105.9	103.5	101.5	98.9	101.2	99.6	98.6	97.4	148.5

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	(0.0°)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	76.6	77.1	75.9	74.9	74.8	74.1	71.6	73.0	72.7	72.6	71.0	70.9	71.9	72.3	70.8	72.2	122.7
	63	75.0	74.3	74.0	71.8	76.1	77.1	71.8	70.1	70.8	78.9	78.2	69.2	69.0	69.4	69.2	68.3	123.3
RADIAL 100 FT.	80	70.6	70.7	68.6	67.7	67.7	66.7	66.5	65.7	65.4	65.5	66.0	65.6	64.7	64.9	63.7	64.8	116.0
(30. N)	100	71.0	69.9	69.9	68.7	68.9	67.2	64.5	65.9	67.5	65.8	63.9	65.3	66.9	65.5	64.2	68.0	116.6
VEHICLE ATT	125	70.0	70.1	69.2	70.2	66.2	65.9	62.6	64.9	68.8	67.1	61.4	67.9	67.1	62.5	63.1	65.3	116.4
CONFIG B-TM IN	160	66.0	64.2	65.1	63.8	65.1	63.1	62.5	61.8	62.9	63.8	60.1	60.8	62.8	60.4	59.3	61.0	112.4
LOC PTO	200	70.1	70.3	69.9	67.0	69.3	64.9	64.8	63.2	63.9	63.8	61.6	60.2	61.0	61.3	60.0	62.1	114.6
DATE 8/09/74	250	76.8	76.2	76.3	74.7	74.3	72.0	69.7	68.8	67.6	67.0	64.3	62.9	62.1	63.3	63.3	65.1	119.8
RUN 648	315	78.1	77.2	79.1	76.8	77.0	74.1	69.5	69.0	69.6	68.1	64.2	63.2	67.1	64.4	64.0	66.3	121.7
TAPE A944	400	74.9	74.9	75.1	73.6	73.9	70.8	67.7	66.0	65.0	64.7	63.1	62.1	65.1	64.1	64.0	64.0	118.8
BAR 28.9 HG	500	74.9	74.0	74.0	75.5	76.9	70.7	66.6	66.7	68.5	67.6	63.4	64.0	67.9	63.0	64.9	65.2	120.2
(97601 N/M2)	630	79.5	79.2	80.4	81.3	83.3	77.4	73.0	71.4	75.0	72.3	72.7	72.2	72.3	66.9	69.5	68.5	126.3
TAMB 81 DEG F	800	81.1	79.2	78.2	77.1	77.2	77.0	77.9	74.0	69.8	76.2	75.5	69.1	70.1	70.3	75.3	73.2	125.4
(300 DEG K)	1000	80.2	78.3	79.3	78.2	77.5	76.4	73.1	71.4	68.4	69.3	67.7	67.4	68.3	66.3	66.2	65.8	123.3
TWET 7 DEG F	1250	80.0	80.2	82.2	81.1	81.0	80.9	77.0	76.0	70.7	72.1	69.3	71.0	73.9	71.4	68.3	68.4	126.9
(295 DEG K)	1600	81.1	80.1	81.3	81.1	80.8	79.2	75.8	73.1	69.9	70.2	67.5	69.9	70.3	64.3	66.4	65.5	125.8
HACT 6.11 GM/M3	2000	84.2	81.5	83.6	84.2	87.4	86.5	83.0	80.5	76.0	76.4	72.4	72.4	74.3	71.4	69.5	71.9	131.6
(.81611 KG/M3)	2500	85.9	85.2	86.0	87.2	88.1	89.4	84.9	81.5	75.8	77.2	72.1	71.4	73.9	71.3	70.3	69.1	133.6
NFA 6850 RPM	3150	92.2	92.3	92.3	91.0	89.4	89.7	86.2	83.4	79.1	76.0	72.7	73.3	75.5	71.4	71.3	71.6	136.8
(717 RAD/SEC)	4000	93.2	90.1	92.1	90.9	92.1	92.1	88.6	84.1	80.1	82.0	73.2	75.2	77.0	71.2	72.3	73.2	137.7
NFK 6709 RPM	5000	91.4	96.6	94.3	96.2	96.3	99.6	93.9	89.3	86.9	85.5	80.5	75.4	81.3	78.8	78.4	75.4	143.4
(702 RAD/SEC)	6300	92.2	90.6	91.4	89.3	90.7	90.4	89.0	81.6	76.2	79.3	72.8	73.3	73.4	71.6	70.6	71.5	137.0
NFD 10628 RPM	8000	92.1	92.3	91.5	92.3	93.3	92.4	88.8	82.4	79.3	79.2	72.6	71.3	73.3	71.6	72.4	70.4	139.2
(1113 RAD/SEC)	10000	89.9	90.0	90.0	89.8	91.2	90.3	87.7	80.3	74.9	64.2	70.4	70.2	70.2	69.1	69.3	69.4	138.3
NO. OF BLADES 44	12500	86.6	87.9	86.8	86.7	87.9	86.5	83.4	75.9	72.7	81.9	70.0	71.5	71.6	71.8	71.8	72.8	136.1
	16000	83.4	84.5	81.9	83.2	84.3	83.4	80.1	73.2	68.3	63.5	64.9	67.4	67.5	67.5	68.3	67.5	135.4
	20000	77.9	78.8	77.0	77.8	79.8	78.6	75.4	67.9	64.6	63.9	63.9	67.9	67.6	67.7	67.0	68.7	135.3
OVERALL MEASURED		100.1	101.3	101.0	100.8	102.0	101.6	98.5	94.1	90.6	97.1	87.3	86.1	87.9	86.2	86.0	87.5	
OVERALL CALCULATED		100.6	101.2	100.7	100.9	101.6	102.6	98.4	93.5	90.4	92.9	85.6	84.6	86.8	84.5	84.4	84.0	148.4
PNDU		113.9	114.9	114.0	114.7	115.1	116.7	112.1	107.8	105.0	104.8	99.8	97.7	100.9	98.4	98.1	96.8	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 19 HR. 18:9

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)
50	74.6	74.6	75.3	74.4	73.4	72.7	72.6	72.2	71.7	72.4	70.5	70.5	71.6	71.6	70.8	71.5	122.0
63	73.1	73.4	73.1	72.0	75.8	77.2	73.0	69.9	70.9	80.0	69.9	69.1	69.0	69.2	69.2	68.0	123.6
RADIAL 100. FT. (30. M)	80	69.7	68.8	68.7	68.4	67.9	67.3	66.5	65.5	66.4	66.5	65.6	64.9	65.9	64.6	66.0	116.4
VEHICLE ATY	100	70.0	69.1	69.8	69.0	69.5	67.9	66.6	67.3	69.0	66.6	64.9	64.1	65.9	67.1	65.1	117.3
CONFIG B-M IN	125	68.0	68.4	66.3	66.3	65.9	64.6	63.1	64.1	65.2	62.9	60.2	62.2	64.4	62.3	63.2	114.0
LOC PTO	160	60.0	64.1	65.7	62.5	64.7	65.0	64.0	60.5	61.0	60.9	58.8	60.9	62.1	60.0	58.9	111.9
DATE 8/09/74	200	70.9	70.3	69.0	67.0	68.6	65.3	66.9	64.3	65.3	65.9	64.9	62.3	62.0	63.0	61.0	115.5
RUN 650	250	78.0	77.0	77.1	74.9	73.7	72.3	72.0	68.8	67.1	64.9	64.1	62.2	63.1	63.0	65.0	120.1
TAPE A944	315	77.0	78.3	79.1	77.0	76.0	73.1	71.7	68.6	68.2	66.8	62.9	63.0	64.2	63.0	62.2	121.4
BAR 28.9 HG	400	76.9	76.1	76.9	74.7	74.1	72.1	70.0	65.6	65.3	64.1	63.1	63.4	64.4	63.1	63.1	119.6
(97601. N/M2)	500	78.1	76.8	74.6	76.5	73.8	76.1	72.6	67.6	70.8	70.8	68.9	65.9	64.9	64.0	63.0	121.7
TAHR 81. DEG F	630	81.3	80.4	80.2	79.1	77.9	70.4	74.0	70.7	71.3	70.9	70.3	69.7	67.4	65.4	67.5	124.1
(309. DEG K)	800	74.2	78.2	78.3	78.2	75.0	74.3	73.0	69.8	69.9	67.6	66.1	67.2	63.8	64.5	66.2	122.2
TRET 71. DEG F	1000	74.5	80.2	81.5	79.4	78.1	70.5	75.2	71.0	69.1	67.2	66.1	66.2	67.2	64.7	65.1	124.2
(295. DEG K)	1250	81.1	82.3	82.4	81.1	80.2	81.1	77.1	72.9	72.2	70.2	68.2	69.2	70.3	69.0	66.2	125.6
FACT 16.11 GM/M3	1600	81.3	80.4	82.3	81.1	80.0	81.4	74.3	75.0	71.2	70.0	69.2	68.1	69.4	67.4	67.4	126.9
(.01611 KG/M3)	2000	83.2	81.5	83.5	85.1	84.1	84.6	81.4	78.3	76.2	74.3	71.3	71.5	72.5	70.6	69.5	130.1
MFA 5558. RPM	2500	84.9	86.0	86.2	86.9	88.2	88.3	85.8	80.9	77.0	75.7	72.2	71.2	74.0	72.1	70.2	133.4
(687. RAD/SEC)	3150	94.2	96.6	94.3	92.4	92.5	92.3	89.4	85.2	80.5	77.3	74.5	74.3	74.5	73.2	72.5	136.6
MFK 5425. RPM	4000	92.2	90.4	92.0	89.9	92.3	92.4	90.9	84.8	80.3	75.1	74.4	74.2	76.3	71.2	72.4	137.9
(673. RAD/SEC)	5000	91.6	96.5	93.7	95.6	97.6	99.5	95.4	89.1	88.6	83.5	82.4	77.3	81.4	79.7	78.7	143.7
MFD 10628. RPM	6300	92.5	90.7	91.3	89.1	89.4	89.4	88.5	80.3	76.1	76.4	71.5	72.6	72.4	70.6	70.4	136.3
(1113. RAD/SEC)	8000	91.1	92.6	91.5	93.1	94.4	93.6	91.1	83.4	79.5	75.1	74.4	72.2	74.4	71.6	73.2	140.2
CO. OF BLADES 44	12500	90.2	90.4	88.9	89.8	90.3	90.1	89.1	80.0	75.1	71.9	70.1	70.2	70.0	67.2	68.5	137.9
16000	82.9	84.3	81.4	84.0	84.3	84.1	82.3	71.9	67.4	70.0	63.2	65.6	65.4	64.5	64.5	66.4	134.5
20000	77.6	80.8	76.9	77.8	76.5	78.4	76.7	67.6	66.5	74.6	64.5	68.6	68.6	68.9	67.8	69.8	132.9
OVERALL MEASURED	92.9	102.3	100.2	101.0	102.3	102.3	99.8	93.9	91.9	89.8	86.2	86.1	87.3	86.3	86.5	87.3	145.6
OVERALL CALCULATED	106.8	102.2	100.9	100.9	102.1	102.8	99.9	93.5	91.4	88.8	86.1	84.5	86.2	84.6	84.0	85.6	
PWDB	114.5	115.7	114.6	114.4	115.7	110.7	113.5	107.6	106.1	102.4	100.7	98.0	100.5	98.6	98.0	96.6	

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PWL
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0, )	(0,17)	(0,35)	(0,52)	(0,70)	(0,87)	(1,05)	(1,22)	(1,40)	(1,57)	(1,75)	(1,92)	(2,09)	(2,27)	(2,44)	(2,62)	(		
50	75.3	75.8	75.2	74.6	74.8	73.7	72.9	72.4	72.6	72.5	70.7	70.6	71.8	71.6	70.7	71.6	122.4	
63	74.1	73.2	73.7	72.0	75.9	77.1	73.0	70.7	71.5	79.8	69.9	69.0	69.1	69.2	69.2	68.1	123.6	
RADIAL 100. FT. ( 30. M)	80	69.7	69.5	68.5	68.5	67.5	67.0	67.5	66.5	65.8	65.6	66.5	65.5	64.9	64.9	63.8	69.7	
VEHICLE ATT	125	68.2	69.1	68.1	68.5	66.0	64.6	64.3	67.9	68.5	66.3	62.5	65.0	64.2	65.5	64.3	68.4	
CONFIG B-M IN	160	66.0	64.1	65.8	63.7	64.9	63.0	63.6	60.6	62.1	60.7	60.1	61.1	62.9	61.0	60.4	61.2	
LOC PTO	200	71.0	71.2	69.9	67.0	68.8	66.3	65.7	64.0	64.3	64.9	62.2	60.9	61.0	61.3	60.4	62.4	
DATE 8/09/74	250	77.9	77.1	76.6	75.1	73.8	74.4	71.8	68.8	68.2	65.7	65.1	63.1	63.3	63.5	64.4	69.1	
RUN 651	315	78.9	78.8	79.0	78.3	76.8	73.3	71.9	70.5	69.2	67.0	63.8	62.9	67.0	66.2	65.2	69.3	
TAPE A944	400	76.1	76.2	76.0	75.2	73.8	71.2	68.8	65.9	66.1	64.1	63.0	62.9	65.2	64.1	64.2	65.3	
BAR 28.9 HG	500	75.9	76.8	75.5	75.8	74.7	72.8	70.7	68.6	70.0	71.7	68.9	69.5	69.8	65.1	69.3	64.8	
(97601. N/M2)	630	81.3	80.2	81.1	80.6	80.2	75.2	76.1	73.0	73.2	75.9	76.2	71.2	71.4	67.4	68.2	67.2	
TAMB 81. DEG F	800	80.0	79.9	79.7	80.3	78.8	77.4	78.0	70.8	70.1	71.0	71.1	69.7	73.2	67.0	65.3	69.0	
(300. DEG K)	1000	80.3	79.1	81.1	79.6	79.2	78.7	75.1	71.7	68.4	68.0	67.3	68.2	67.4	67.5	65.0	66.1	
INLET 71. DEG F	1250	80.5	81.3	81.0	82.5	82.1	80.4	78.2	75.9	72.3	70.1	69.0	70.0	71.2	72.1	67.4	67.3	
(295. DEG K)	1600	81.7	81.2	81.3	82.1	80.2	80.5	78.0	73.9	71.5	70.1	69.1	68.1	70.4	67.5	67.0	66.5	
FACT 16.11 GM/K3	2000	83.7	82.3	84.3	84.4	86.3	85.6	82.1	79.0	75.4	74.0	71.4	70.3	72.5	69.4	69.4	70.3	
(.01611 KG/M3)	2500	86.2	85.2	86.0	87.0	90.2	90.4	87.1	82.7	77.3	77.2	73.2	72.9	76.2	71.9	71.4	71.0	
FA 6741. RPM	3150	92.5	93.6	92.1	91.5	90.3	91.6	88.2	83.0	79.8	78.4	75.1	74.4	74.2	72.3	71.7	72.4	
( 700. RAD/SEC)	4000	92.1	90.2	91.8	91.0	92.2	93.0	90.1	84.0	80.2	77.0	74.0	75.1	77.3	72.0	72.0	74.2	
FRK 6602. RPM	5000	91.3	96.7	93.4	96.6	97.4	98.5	94.5	89.0	87.5	83.2	81.6	76.5	81.4	79.8	79.2	75.5	
( 691. RAD/SEC)	6300	92.5	91.6	91.3	90.2	90.1	90.7	89.2	80.3	76.3	77.2	71.5	73.1	72.4	71.4	70.7	71.0	
NFD 10628. RPM	8000	91.7	93.4	91.3	93.4	93.4	93.5	90.2	82.3	79.7	74.0	73.2	72.3	73.5	71.4	71.7	70.3	
(1113. RAD/SEC)	10000	90.0	90.2	89.6	90.1	91.1	91.1	88.0	80.0	75.9	72.7	69.9	70.0	70.0	69.0	68.9	70.2	
NO. OF BLADES 44	12500	87.5	87.8	85.6	87.5	87.6	87.1	84.4	76.3	72.9	77.7	69.6	72.7	72.5	72.0	72.8	136.2	
	16000	84.0	84.4	82.0	83.2	84.3	83.7	81.2	71.9	68.4	71.0	63.5	66.3	66.3	66.1	65.7	67.5	
	20000	78.4	80.6	77.5	78.5	79.5	79.1	76.5	65.6	65.8	73.6	63.3	68.5	68.6	68.1	67.1	69.9	
OVERALL MEASURED	100.9	100.6	100.7	101.1	102.1	102.5	98.7	93.8	91.2	90.0	87.2	85.9	87.3	86.1	86.4	87.3	136.2	
OVERALL CALCULATED	100.6	101.8	100.5	101.4	102.0	102.6	99.3	93.3	90.8	89.2	86.2	84.8	86.8	84.8	84.2	84.1	134.5	
PWDB	113.6	113.3	113.6	115.2	115.8	116.4	112.9	107.6	105.5	102.7	100.6	97.9	100.9	98.9	98.4	96.9	133.1	
																	148.5	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 PROC. DATE = MONTH 8 DAY 19 HR. 18.9  
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

		0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
	FREQ.	(0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
	50	76.4	76.5	76.5	75.4	74.6	73.9	73.4	72.0	72.5	72.3	70.7	70.7	71.9	72.6	70.8	72.8	122.7
	63	74.7	74.3	73.7	71.8	75.8	70.1	73.6	70.8	71.8	72.7	69.9	69.9	69.1	70.1	70.5	69.2	122.1
RADIAL 100. FT.	80	70.6	69.8	68.4	68.4	67.5	67.0	68.3	66.3	65.5	65.4	66.5	65.8	65.6	65.8	64.7	65.8	116.5
( 30. M)	100	70.8	69.8	69.7	69.0	69.7	67.3	66.9	65.5	66.1	65.8	64.3	62.8	66.0	65.9	65.0	68.0	116.6
VEHICLE ATT	125	70.2	70.4	68.9	70.2	65.9	65.9	65.2	63.8	68.2	68.1	60.4	64.2	67.5	62.4	64.1	63.4	116.2
CONFIG B-M IN	160	66.1	63.9	65.6	64.7	65.6	63.0	63.7	60.8	62.9	60.9	59.9	62.1	64.2	61.1	60.2	61.2	112.7
LOC PTD	200	71.0	70.9	69.9	66.9	69.0	66.1	66.0	62.9	63.1	61.7	60.9	59.9	61.1	61.2	59.3	61.4	114.5
DATE 8/09/74	250	78.1	76.8	76.8	75.0	73.8	73.0	71.8	68.8	67.9	65.9	64.9	64.2	64.0	63.3	64.1	65.0	120.3
RUN 652A	315	78.9	78.2	79.1	78.0	76.7	74.0	71.7	59.6	67.1	68.7	64.1	63.2	67.3	66.0	64.5	65.0	122.1
TAFG A944	400	70.2	70.0	76.0	75.1	74.1	71.5	69.0	66.7	66.2	64.8	63.3	63.1	66.2	65.3	64.5	65.0	119.6
BAR 28.9 HG	500	74.9	74.9	75.7	76.5	75.6	72.0	67.6	66.4	68.0	66.5	64.9	64.4	67.1	63.7	66.1	64.9	120.4
(97557, N/M2)	630	81.5	80.4	82.0	82.2	83.0	78.5	74.0	71.8	76.1	75.0	72.2	73.5	72.4	67.2	69.4	69.4	127.0
TAMB 79. DEG F	800	79.4	81.0	80.8	77.9	78.7	80.5	82.1	73.7	74.2	80.9	78.2	70.1	73.3	72.1	76.1	75.4	128.3
(299, DEG K)	1000	79.5	78.4	79.3	78.3	79.1	76.3	74.9	76.8	70.4	70.2	67.4	68.3	67.6	66.2	66.5	65.5	123.7
TWET 71. DEG F	1250	81.1	81.3	81.1	81.2	81.8	81.3	78.9	74.6	73.2	72.7	72.0	72.2	71.2	70.3	68.5	67.2	127.3
(295, DEG K)	1600	81.2	81.2	81.5	81.2	80.0	79.4	75.9	72.9	70.6	69.2	68.4	68.3	68.5	68.1	67.5	65.3	125.9
WACT 16.24 GM/M3	2000	84.4	82.5	84.1	85.4	87.2	86.5	83.3	80.1	75.3	73.3	72.2	72.6	73.5	71.2	69.0	72.5	131.7
(.01624 KG/M3)	2500	85.6	85.0	85.8	88.1	88.2	89.2	85.1	80.0	76.1	75.7	72.0	71.9	73.0	71.2	70.2	70.2	133.6
MFA 6896. RPM	3150	91.2	91.3	92.1	91.3	89.2	90.7	87.4	83.0	79.5	76.0	72.3	73.4	74.5	71.6	70.5	71.6	136.3
( 722, RAD/SEC)	4000	93.2	90.4	91.8	91.1	91.8	93.2	89.8	83.9	80.1	75.0	73.2	75.2	76.3	71.3	72.5	73.3	138.0
CFK 6767. RPM	5000	91.6	96.5	94.2	96.2	97.3	99.7	94.2	89.0	68.7	83.1	81.4	77.3	80.5	80.4	78.8	75.5	143.6
( 708, RAD/SEC)	6300	92.4	91.3	91.0	90.3	90.4	90.5	90.0	81.0	78.4	76.3	72.5	73.2	73.6	72.3	71.5	72.3	137.3
MFR 10628. RPM	8000	92.1	93.5	92.2	93.2	93.2	92.4	90.0	82.2	79.7	74.1	72.4	72.3	73.2	71.2	72.2	71.3	139.5
(1113, RAD/SEC)	10000	90.6	91.1	90.0	91.0	91.7	90.3	88.8	80.7	76.1	72.7	71.1	69.7	70.1	70.0	69.2	70.0	138.5
P.C. OF BLADES 44	12500	87.5	83.4	86.3	87.7	87.8	87.8	85.6	76.4	72.8	77.6	69.7	71.8	72.4	72.5	71.0	72.5	136.7
	16000	84.0	85.0	82.1	84.1	84.6	84.3	82.0	72.7	69.2	73.0	65.2	68.3	69.1	68.4	67.5	69.4	135.1
	20000	79.4	80.3	77.6	79.3	79.5	78.7	76.4	68.0	66.4	73.1	63.3	67.7	68.7	68.8	66.7	69.8	133.1
OVERALL MEASURED	100.9	101.4	100.7	100.8	101.8	102.0	98.9	92.9	91.0	90.0	87.2	86.2	88.1	87.1	87.5	86.4	88.4	
OVERALL CALCULATED	100.6	101.6	100.7	101.4	101.9	102.9	99.3	93.2	91.5	89.1	86.3	85.1	86.4	85.2	84.7	84.6	84.6	148.6
PNUB	114.0	115.1	114.0	115.0	115.6	116.9	112.7	107.5	106.3	102.5	100.4	96.3	100.4	99.3	98.3	97.1		

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ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (C)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
50	74.4	75.6	75.2	74.3	74.3	73.9	72.3	72.2	72.5	71.5	70.5	70.5	71.5	71.8	70.5	72.7	122.2	
63	74.8	74.6	73.9	73.0	75.8	76.2	73.9	70.6	71.2	73.0	69.8	69.4	69.1	71.1	68.9	78.1	122.8	
RADIAL 170. FT. (30. M)	80	69.8	69.8	68.4	68.4	68.6	67.7	68.3	66.5	65.5	65.4	66.5	65.9	65.6	65.6	64.5	65.8	116.6
VEHICLE ATT	100	70.8	69.1	70.9	68.7	68.9	67.3	66.9	64.6	65.8	66.0	64.8	65.2	67.9	66.1	65.1	68.	116.7
CONFIG B-M IN	125	69.1	70.1	69.8	76.9	68.1	69.3	65.2	63.8	67.3	68.3	61.1	67.3	68.2	62.3	63.3	65.5	116.7
LOC PTD	160	66.0	64.1	66.0	64.1	65.6	63.2	63.9	61.6	61.8	61.8	60.1	61.9	63.9	61.1	59.1	63.2	112.7
DATE 8/09/74	200	70.8	71.0	68.8	66.8	66.7	66.2	65.9	63.7	62.9	61.7	60.9	59.2	60.0	61.2	60.2	64.3	114.4
RUN 653	250	77.9	77.0	76.8	74.9	74.0	72.2	72.0	69.6	69.2	65.7	63.9	63.1	63.9	63.9	64.9	66.	120.4
TAPC A944	315	79.0	78.1	78.0	77.2	75.9	72.9	70.9	69.0	67.9	65.9	63.2	63.3	65.3	63.2	63.9	65.	121.1
RAH 28.9 HG	400	76.2	76.2	76.0	74.7	73.8	71.4	68.8	65.9	66.0	64.1	63.9	63.3	65.3	64.1	64.4	62.3	119.4
(97601. N/M2)	500	74.8	74.8	74.3	73.8	73.6	69.8	67.7	67.3	70.1	66.9	64.8	64.1	66.9	65.1	65.2	64.7	119.3
TANH 76. DEG F	630	80.4	81.2	81.9	79.4	80.3	76.4	72.2	72.1	78.2	75.0	75.2	75.2	74.2	72.5	72.5	68.6	126.5
(297. DEG K)	800	82.0	79.7	80.9	78.8	79.9	82.2	79.9	70.4	80.4	79.2	82.1	71.0	72.2	74.3	73.2	72.9	129.0
THET 76. DEG F	1000	79.1	78.4	78.9	77.0	76.9	70.4	74.1	70.9	69.1	67.9	68.4	67.2	67.2	66.4	65.5	65.5	123.0
(294. DEG K)	1250	81.3	80.1	81.2	78.9	79.2	77.4	74.7	72.0	70.1	70.1	70.0	71.1	70.4	70.1	67.2	68.	124.9
HACT 16.38 GM/M3	1600	80.4	79.3	80.0	80.1	79.1	77.5	74.0	69.8	69.4	68.9	67.2	68.2	68.6	67.1	66.1	64.5	124.4
(101638 KG/M3)	2000	83.2	82.2	82.5	83.2	84.0	83.5	80.1	74.9	72.3	72.1	70.3	71.3	71.3	69.3	69.3	70.4	129.9
MFA 6890. RPM	2500	80.1	85.2	84.7	86.2	87.1	86.3	82.9	78.0	77.0	73.0	73.3	71.3	72.2	71.1	69.4	68.8	131.7
(721. RAD/SEC)	3150	91.2	90.3	89.9	89.2	88.1	88.4	86.2	81.2	77.6	75.3	71.2	72.2	73.3	70.4	69.3	69.3	134.5
MFK 6783. RPM	4000	92.0	91.3	89.8	91.0	90.8	92.5	88.2	81.7	77.9	74.0	72.2	73.4	73.9	72.1	70.3	72.4	137.0
(710. RAD/SEC)	5000	91.6	94.5	95.1	91.4	96.2	94.6	93.2	85.0	85.3	81.5	78.3	77.4	80.4	76.7	78.1	74.5	140.9
MFL 10628. RPM	6300	92.1	92.3	90.0	91.3	91.4	91.6	89.4	81.0	76.4	77.4	72.5	72.7	73.3	71.3	71.3	71.6	137.6
(1113. RAD/SEC)	8000	89.7	90.9	89.6	89.8	90.7	90.2	87.9	78.0	74.8	71.9	69.8	68.9	69.1	68.8	68.2	69.1	137.8
NO. OF BLADES 44	12500	87.4	87.8	85.5	87.6	87.6	87.9	84.6	75.2	72.4	77.2	68.8	71.7	72.6	71.7	71.6	72.5	136.3
	16000	83.9	85.0	81.9	84.1	85.0	84.5	81.1	71.8	68.0	72.9	64.9	68.3	68.2	68.1	66.9	69.2	134.8
	20000	78.4	80.4	77.1	78.0	79.0	78.4	76.3	66.8	65.2	72.2	64.2	67.5	67.5	68.6	66.4	68.3	132.5
OVERALL MEASURED	99.9	100.2	100.0	100.0	100.7	100.3	97.9	91.8	90.1	90.0	86.9	86.4	87.2	86.3	86.4	88.1		
OVERALL CALCULATED	100.2	100.9	100.3	99.6	101.0	100.6	98.1	90.7	89.9	87.9	86.4	84.8	85.9	84.3	84.1	84.7	147.3	
PNUB	113.2	114.0	114.0	112.3	114.6	113.6	111.5	104.6	104.1	101.1	98.7	98.1	100.0	97.4	97.3	96.3		

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 8 DAY 21 HR. 9.5  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.1)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	75.0	75.6	76.6	74.7	74.3	72.9	72.7	72.2	72.8	71.6	70.7	72.6	71.6	71.8	70.8	72.5	122.5
	63	74.4	74.3	73.9	71.8	75.7	77.1	73.7	69.9	70.8	72.6	69.9	72.3	69.8	69.2	69.3	122.6
RADIAL 100. FT.	80	69.5	69.5	69.3	68.3	67.5	68.3	67.6	66.5	65.6	65.7	66.7	68.0	64.9	65.8	63.7	118.8
( 33. M)	100	71.5	71.9	72.0	68.9	70.0	68.3	68.0	68.5	69.1	66.9	64.9	68.9	64.9	67.1	68.1	118.2
VEHICLE ATT	125	67.0	69.4	67.9	67.3	67.1	65.5	65.0	67.9	68.4	65.2	61.3	66.4	64.5	64.4	64.2	116.4
CONFIG B-M IN	160	65.7	64.2	65.9	63.6	65.7	63.2	63.9	61.6	61.9	59.0	59.8	67.0	62.9	60.9	58.9	113.1
LDC PTO	200	70.5	71.2	69.7	66.7	68.8	66.1	66.0	64.7	64.0	62.8	62.0	65.3	61.0	62.0	60.3	115.1
DATE 8/09/74	250	77.8	76.9	76.1	74.7	73.8	73.0	71.8	70.0	68.3	66.0	64.9	66.2	63.3	63.2	64.6	120.3
RUN 654	315	78.4	78.0	78.8	77.9	76.7	73.4	71.8	73.7	69.1	66.7	63.0	65.0	65.9	65.0	64.3	122.0
TAPE A944	400	76.6	75.9	76.8	74.8	74.1	71.2	69.2	66.7	66.3	64.2	63.0	66.1	65.2	64.4	64.3	119.6
LAP 28.9 HG	500	75.3	75.7	74.5	75.9	76.6	70.9	67.6	68.8	73.0	74.6	70.8	73.8	71.8	64.7	66.8	122.6
(97601. N/M2)	630	80.1	80.2	80.0	79.4	80.3	75.3	74.0	72.8	74.1	77.2	77.2	73.4	72.5	68.3	68.5	126.0
TANK 76. DEG F	800	78.8	78.2	77.9	76.7	74.8	73.3	72.8	67.7	68.2	69.0	71.8	69.0	71.0	64.2	65.2	122.2
(297. DEG K)	1000	79.1	79.1	80.1	77.2	76.3	74.7	73.2	69.2	67.1	66.0	66.3	66.4	67.2	66.4	64.3	122.6
TWT 70. DEG F	1250	79.7	80.1	80.2	79.2	79.1	77.2	75.2	75.9	69.0	67.9	67.3	69.1	70.3	69.3	66.3	124.5
(294. DEG K)	1600	79.6	79.3	81.0	80.4	79.0	76.6	76.0	72.0	69.2	67.9	66.1	68.4	68.5	67.2	66.2	125.0
HAC 16.38 GH/M3	2000	81.9	81.9	83.1	83.1	83.4	82.3	80.1	75.0	74.5	72.2	69.6	69.6	75.6	68.4	68.3	128.6
(.01638 KG/M3)	2500	84.4	85.0	86.2	86.2	86.8	87.2	83.9	78.7	74.9	73.0	70.3	71.3	73.9	73.9	68.9	132.1
MFA 6713. RPM	3150	91.0	92.2	92.2	90.4	90.3	89.5	87.1	82.2	78.5	76.1	71.4	72.6	73.3	71.5	71.3	136.0
( 703. RAD/SEC)	4000	91.4	91.3	89.8	91.9	91.9	92.1	88.9	81.9	77.9	75.1	73.2	73.9	73.9	72.1	70.3	137.3
IFK 6609. RPM	5000	90.7	95.4	95.1	91.5	97.3	96.6	95.1	87.4	84.6	83.1	80.6	79.4	80.5	78.4	78.7	142.2
( 692. RAD/SEC)	6300	91.7	92.2	90.4	91.1	90.3	88.2	80.3	75.2	76.1	71.2	71.5	72.2	71.3	70.6	71.3	136.8
IFU 10628. RPM	8000	91.0	92.2	92.0	92.1	93.1	92.6	90.0	80.4	78.5	73.2	72.1	72.5	73.5	72.2	72.2	139.2
(1113. RAD/SEC)	10000	89.4	90.2	88.9	90.8	91.0	91.2	87.9	78.8	74.7	72.9	69.8	69.1	69.1	69.1	70.1	138.2
NO. OF BLADES 44	12500	86.1	87.7	85.6	87.7	88.4	86.8	85.3	75.3	72.4	77.3	69.7	72.4	72.8	72.3	71.7	136.4
	16000	83.8	83.0	81.9	83.9	84.8	83.1	81.8	71.9	68.0	70.0	63.8	67.0	66.2	67.2	65.2	134.5
	20000	77.8	79.4	77.1	78.4	79.9	76.4	76.1	67.2	65.2	71.9	63.3	68.3	68.3	66.5	67.5	132.7
OVERALL MEASURED	99.2	101.0	100.8	100.2	102.0	101.1	98.9	92.0	90.0	88.9	87.3	87.3	87.3	86.3	86.3	87.3	
OVERALL CALCULATED	99.8	101.1	100.5	100.1	101.7	101.2	99.0	91.7	88.9	88.1	85.5	85.7	85.8	84.1	83.6	84.3	147.8
PNOB	112.9	114.5	114.2	112.9	115.3	114.6	112.7	106.0	103.4	101.9	99.5	99.4	100.0	97.9	97.9	96.9	

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	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PWL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)		
50	76.4	77.5	76.3	75.3	77.5	74.7	74.3	73.4	73.8	72.5	71.5	73.6	72.7	72.8	71.4	73.8	123.8	
63	75.7	77.0	74.9	73.8	81.0	77.2	74.8	71.6	73.1	74.0	71.2	72.2	72.2	70.4	72.2	81.2	125.1	
RADIAL 100. FT. (30. M)	82	71.5	70.6	69.3	68.6	71.4	68.9	68.6	67.2	66.5	66.2	67.5	70.8	67.7	66.6	65.0	66.9	118.1
VEHICLE ATT	100	72.9	76.6	71.6	70.6	72.9	70.4	68.1	66.6	67.9	68.6	64.1	71.2	71.0	68.3	72.2	68.2	119.9
CONFIG B-M IN	125	73.2	73.9	75.0	72.0	82.2	72.8	73.3	73.8	76.0	70.8	69.3	72.2	71.5	74.4	72.4	71.3	124.9
LOC PTO	100	66.7	75.6	67.1	67.9	72.8	67.2	66.8	65.6	66.9	64.8	65.8	69.9	63.9	64.2	58.4	68.8	117.9
DATE 8/09/74	200	73.2	75.0	73.0	69.1	78.9	71.2	70.1	65.6	71.0	69.1	66.1	73.3	61.1	68.0	68.0	68.5	121.3
RUN 655	250	78.0	78.1	76.9	74.9	75.0	72.3	72.1	69.8	70.1	66.0	65.2	70.0	63.8	65.0	65.9	69.8	121.0
TAPE A944	315	79.2	79.0	78.8	78.0	77.9	73.2	72.1	70.8	70.2	69.1	67.3	70.2	69.0	67.4	67.2	69.0	122.9
NAR 28.9 HG	400	77.0	77.1	76.8	74.9	76.0	72.1	71.9	67.0	70.4	67.9	68.3	71.4	67.3	69.2	66.1	67.2	121.5
(97601-N/M2)	500	74.8	75.1	75.7	74.5	76.7	70.1	69.0	67.4	70.1	69.8	65.0	68.8	66.8	65.8	66.0	65.2	120.8
TAMB 76. DEG F	630	81.5	81.6	81.3	80.3	80.1	75.5	73.8	72.9	78.1	75.1	74.1	75.1	73.5	72.2	69.5	68.7	126.4
(297. DEG K)	800	81.9	80.0	81.0	80.9	80.9	82.0	81.0	70.7	60.0	78.8	82.0	72.9	71.2	74.1	73.0	73.9	129.3
TWET 70. DEG F	1000	80.1	79.1	79.1	78.0	76.3	77.0	74.2	70.7	69.1	69.2	69.2	70.4	68.5	67.6	65.5	67.3	123.9
(294. DEG K)	1250	81.4	81.3	81.9	81.9	80.1	79.7	77.0	72.8	71.4	70.9	71.0	73.3	72.0	71.2	68.1	69.3	126.5
HACT 16.38 GM/M3	1600	81.2	80.1	81.3	80.3	79.2	78.7	75.2	70.6	70.2	68.4	67.5	70.1	69.2	67.6	67.5	69.7	125.1
(.01638 KG/M3)	2000	83.2	82.6	83.1	84.3	84.2	85.5	82.1	77.8	74.1	73.2	71.2	72.2	72.5	70.5	69.5	71.4	130.2
NFA 6892. RPM	2500	85.2	85.3	86.0	87.0	87.0	87.5	85.1	79.7	77.0	74.9	72.8	73.2	72.9	71.1	70.3	69.1	132.7
(722. RAD/SEC)	3150	91.3	90.4	92.2	91.0	89.1	89.4	87.4	83.0	77.4	76.2	72.2	73.1	73.3	71.6	71.2	70.5	135.8
NFK 6785. RPM	4000	92.2	91.4	90.8	91.0	91.3	93.2	89.1	82.9	79.1	75.7	74.2	74.1	75.3	72.4	72.4	73.3	137.7
(710. RAD/SEC)	5000	92.4	93.1	96.0	92.3	96.6	94.5	93.4	86.1	85.6	83.1	78.7	78.4	86.4	77.4	79.8	76.5	141.3
NFD10628. RPM	6300	92.7	92.4	90.2	92.2	91.0	91.3	89.1	82.0	77.5	77.3	73.1	73.4	73.2	72.3	74.1	72.4	137.7
(1113. RAD/SEC)	8000	91.3	92.5	91.9	91.6	92.1	91.6	89.2	81.0	78.1	74.1	72.3	74.3	73.2	72.2	71.5	71.3	138.6
NO. OF BLADES 44	10000	90.8	90.9	89.6	90.9	91.7	90.7	87.7	78.7	75.8	72.8	69.8	72.7	71.1	69.0	68.6	69.2	138.3
15000	12500	87.4	87.3	86.5	87.3	87.7	87.8	84.5	78.2	73.6	76.2	69.7	74.5	72.7	72.5	72.5	73.7	136.5
20000	OVERALL MEASURED	84.2	84.8	82.9	84.9	85.0	83.3	81.9	72.6	71.0	75.1	65.9	72.5	69.1	63.2	59.4	72.0	135.3
OVERALL CALCULATED	100.7	101.2	101.0	100.5	101.5	100.9	98.6	92.7	92.0	90.5	89.0	86.9	87.2	86.5	85.4	85.7	86.6	147.8
PNOB	113.6	114.6	114.9	113.3	115.3	113.9	112.2	105.8	104.8	102.6	99.6	100.1	100.4	98.5	99.4	98.0		

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	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
	50	75.6	75.7	76.4	74.6	74.7	71.8	72.7	72.2	72.5	71.5	70.4	70.5	71.9	71.8	70.7	74.8	122.5
	63	75.0	74.2	73.9	72.9	77.2	76.1	73.7	70.7	71.8	72.0	69.0	69.0	67.9	69.2	69.9	85.1	124.8
RADIAL 100. FT.	80	70.4	69.5	68.6	68.8	68.6	68.7	68.4	66.4	65.9	66.2	66.5	65.9	65.6	65.9	63.6	66.6	116.8
( 30. M)	100	70.2	69.9	70.0	70.7	71.0	68.0	66.0	66.8	67.8	66.9	65.8	64.1	66.9	68.0	67.0	68.0	117.6
VEHICLE ATT	125	68.3	68.2	66.9	67.1	67.1	65.7	64.2	64.1	64.1	62.0	60.2	61.2	64.3	61.3	62.3	63.6	114.1
LONGIC B-M IN	160	66.1	64.1	64.9	63.0	65.7	63.0	63.7	60.8	61.7	59.7	58.9	60.9	62.3	59.7	58.7	65.7	112.2
LOC PTO	200	71.2	71.2	70.1	67.2	69.2	66.4	66.4	66.8	65.6	66.9	65.7	66.1	62.0	64.4	63.3	60.9	69.2
DATE 8/09/74	250	78.0	77.0	78.7	75.6	74.1	73.1	71.8	68.9	68.2	65.7	64.1	61.9	63.0	63.0	63.4	65.7	120.2
RUN 656	315	79.3	78.2	78.8	78.0	75.9	73.3	71.7	68.5	67.9	66.7	62.9	63.0	64.3	63.0	63.4	66.3	121.5
TAPE A944	400	77.1	76.0	76.0	74.8	73.8	71.4	68.8	65.6	65.0	64.8	62.2	63.1	64.0	63.2	63.4	64.7	119.2
WAR 28.9 MG	500	76.8	76.9	75.7	74.9	74.0	76.9	72.6	69.3	75.0	73.6	74.8	68.0	66.8	65.8	63.7	63.9	123.1
(97401. N/M2)	630	81.5	80.3	80.8	79.1	77.3	74.4	72.2	70.9	71.4	71.2	71.1	68.8	67.2	66.2	67.3	66.3	123.6
TAMR 75. DEG F	800	78.2	77.1	76.9	77.2	75.1	73.3	72.0	67.5	71.3	68.7	65.2	67.2	66.3	65.2	64.0	65.1	121.6
(297. DEG K)	1000	79.2	79.2	79.3	78.1	77.2	75.3	73.2	68.7	67.5	66.0	65.5	66.1	67.2	65.2	64.2	64.5	122.7
TMET 69. DEG F	1250	80.1	81.0	80.2	80.0	79.9	79.3	78.1	72.8	71.4	68.7	67.3	67.1	69.1	68.0	66.2	65.2	125.3
(293. DEG K)	1600	80.1	79.1	81.1	80.4	80.1	78.4	76.2	71.7	70.5	68.9	66.4	67.2	68.1	66.2	66.3	64.5	125.3
FACT 15.66 GM/M3	2000	82.2	81.5	82.3	82.2	82.5	82.7	80.1	76.1	72.5	70.4	68.5	68.3	71.3	69.4	68.7	68.7	128.2
(.01566 KG/M3)	2500	85.3	85.0	85.8	86.3	87.0	86.3	82.8	76.5	75.0	71.7	71.2	68.9	71.0	69.2	69.2	69.1	131.6
NFA 6531. RPM	3150	93.4	94.5	94.3	91.4	92.1	90.7	88.2	82.9	79.2	75.9	73.2	73.3	74.3	72.3	71.5	71.3	137.5
( 684. RAD/SEC)	4000	91.8	90.2	89.7	91.1	91.1	92.2	89.3	81.6	78.0	73.9	72.9	73.3	74.3	71.2	70.0	72.3	137.0
NFK 6433. RPM	5000	91.3	94.6	94.6	90.1	97.6	96.5	95.4	86.6	87.4	83.0	79.4	77.6	80.5	77.7	76.4	75.5	142.2
( 673. RAD/SEC)	6300	92.2	91.6	89.9	90.4	90.4	89.7	88.1	78.8	75.1	74.1	70.4	71.2	71.3	70.3	69.5	70.5	136.4
NFD 10628. RPM	8000	90.3	91.2	92.0	92.4	94.0	92.6	91.2	80.9	78.4	74.1	73.3	73.4	73.2	72.2	72.4	71.5	139.7
(1113. RAD/SEC)	10000	89.2	90.2	89.0	89.7	90.1	90.2	86.7	79.4	74.8	71.8	69.8	68.8	68.9	68.2	68.2	69.1	137.7
NO. OF BLADES 44	12500	85.6	86.6	84.5	86.7	87.5	86.9	85.6	75.1	72.4	77.2	68.5	72.6	72.5	72.7	71.6	73.7	136.0
	16000	83.0	83.2	80.2	83.3	83.0	83.2	81.2	70.9	67.3	69.7	63.2	65.1	64.4	65.2	64.2	65.1	133.8
	20000	77.7	79.3	76.2	77.7	78.2	77.5	75.5	67.2	65.4	73.2	64.5	68.7	68.4	68.4	67.7	69.5	132.1
OVERALL MEASURED	100.1	101.2	99.7	100.8	102.2	101.1	99.0	91.9	89.9	88.9	86.2	86.0	86.4	85.4	83.8	83.0	82.4	147.7
OVERALL CALCULATED	100.1	101.0	100.7	99.8	101.9	101.1	99.4	91.1	90.3	87.5	84.8	84.1	85.4	84.1	83.8	83.0	82.4	147.7
PNDB	113.6	114.5	114.3	112.6	115.5	114.6	113.6	105.1	105.0	101.5	98.8	97.7	99.6	97.4	96.5	96.8		



	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PNL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		
FREQ. (0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.61)	(2.78)		
50	74.6	75.1	75.1	74.0	74.2	72.1	70.6	72.1	71.7	69.8	69.7	69.8	68.8	68.8	70.9	69.8	121.1
63	73.7	73.0	72.9	72.5	77.0	75.9	72.6	70.3	71.3	72.0	68.8	68.2	67.1	69.1	69.3	69.3	121.6
RADIAL 100. FT. (30. M)	80	68.4	67.6	67.8	67.1	67.6	65.6	65.5	64.8	64.0	63.9	64.9	64.4	63.6	63.7	62.7	114.7
VEHICLE ATT	100	69.5	69.0	70.0	69.1	69.9	66.1	65.8	67.1	68.0	65.3	65.1	65.1	66.9	67.0	66.0	116.8
CONFIG B-M IN	125	67.8	68.2	66.2	66.4	65.4	63.2	61.8	63.2	63.5	60.3	59.4	60.4	62.2	60.3	62.3	112.6
LOC PTD	160	65.5	62.9	64.9	64.9	66.3	62.1	61.5	60.1	61.0	58.0	59.1	60.1	60.7	68.0	58.2	111.2
DATE 08/09/74	200	69.8	70.0	68.9	68.6	69.1	66.9	64.6	67.2	66.1	68.1	63.0	62.2	66.0	62.1	60.4	115.9
HUN 657	250	75.6	76.1	75.2	74.2	74.4	71.0	69.6	68.2	67.4	64.1	63.0	61.2	61.0	62.4	63.1	119.1
TAPE A943	315	76.6	77.0	77.3	76.5	75.3	72.3	69.6	68.9	66.1	64.3	62.3	61.0	61.0	62.0	62.1	120.2
BAR 28.9 HG	400	75.6	74.1	74.0	74.2	74.9	70.8	65.4	64.8	64.2	60.8	62.1	59.8	60.8	62.1	61.9	118.3
(97601. N/M2)	500	74.4	74.1	72.9	71.9	71.8	67.7	65.3	66.8	71.0	62.8	66.7	62.9	60.7	65.8	63.0	118.1
TAMB 75. DEG F	630	76.1	76.2	76.5	75.3	74.3	70.4	68.1	68.4	67.2	64.3	65.2	62.5	62.3	63.3	62.3	119.6
(297. DEG K)	800	76.5	75.3	76.0	75.5	74.3	69.9	69.8	68.0	67.0	63.4	64.2	63.0	60.7	63.0	62.1	119.5
TMET 69. DEG F	1000	79.9	77.3	78.3	76.4	76.5	73.5	71.1	69.1	66.5	65.3	64.5	66.5	66.0	64.4	64.3	121.5
(293. DEG K)	1250	78.9	79.3	79.4	78.5	78.3	77.0	72.7	71.0	69.3	66.3	66.0	67.9	67.8	67.2	67.1	123.6
WACT 15.66 GM/M3	1600	78.8	79.1	79.2	79.4	79.5	78.2	74.8	72.1	68.2	65.4	65.4	66.1	65.1	66.2	64.5	124.5
(.01566 KG/M3)	2000	81.2	81.4	82.4	82.7	81.6	81.5	77.0	74.1	70.4	68.1	67.0	67.0	67.8	68.2	67.4	127.1
NFA 6321. RPM	2500	84.6	85.3	85.2	85.4	85.0	84.0	80.4	75.9	73.2	70.0	68.9	67.9	68.7	68.0	67.0	130.0
(862. RAD/SEC)	3150	95.1	94.2	94.5	93.7	92.4	91.5	84.9	83.2	79.4	76.4	74.2	73.2	72.2	72.6	73.3	137.9
NFK 6226. RPM	4000	90.9	90.2	89.9	90.5	91.0	91.3	86.7	82.2	79.1	73.2	72.1	73.0	72.6	71.3	70.0	136.3
(852. RAD/SEC)	5000	91.1	94.2	95.1	91.6	96.2	96.6	92.1	86.2	84.5	78.3	77.5	78.5	79.0	75.5	75.6	141.2
NFD10628. RPM	6300	90.8	90.3	89.2	90.4	89.3	88.5	84.8	79.2	74.4	72.5	69.4	70.1	69.0	69.3	68.4	135.3
(1113. RAD/SEC)	8000	89.8	90.2	90.1	91.6	94.1	93.4	90.0	82.3	79.2	73.2	74.3	73.1	73.0	72.2	73.0	139.4
NO. OF BLADES 44	10000	87.8	89.0	88.2	89.4	89.3	89.0	85.8	79.0	75.0	71.2	69.1	67.9	66.9	67.9	68.3	136.5
12500	84.4	84.6	84.5	86.7	85.8	86.8	83.5	75.7	71.8	74.4	68.4	70.5	70.2	70.8	69.9	135.0	
16000	80.6	81.2	80.3	82.2	82.9	81.4	79.0	69.9	67.1	67.0	63.0	64.2	65.8	64.4	63.4	132.6	
20000	76.1	77.2	75.3	77.0	78.5	75.7	73.1	66.3	66.7	70.8	64.3	67.4	67.4	68.5	66.4	130.9	
OVERALL MEASURED	99.9	100.3	100.3	99.5	101.4	100.3	96.8	90.1	90.1	86.1	85.3	85.3	85.1	86.1	85.1		
OVERALL CALCULATED	99.9	100.3	100.4	100.0	101.1	100.9	96.7	91.3	88.7	84.9	83.4	83.6	83.6	82.8	82.4		147.0
PNDB	114.2	113.9	114.0	113.5	114.5	114.3	110.0	105.1	103.0	98.1	97.3	97.6	97.7	96.0	95.8		

	ANGLES FROM INLET IN DEGREES (AND RADIAN)														PHL	
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	
50	74.6	76.0	75.7	74.8	74.0	72.8	71.6	72.9	71.8	71.1	70.9	70.1	69.8	71.1	69.9	121.7
63	74.9	74.1	74.2	73.2	76.9	76.2	72.8	69.9	71.3	72.2	68.9	69.0	66.8	69.1	69.3	121.8
RADIAL 100. FT. (30. M)	80	68.3	68.6	68.6	67.8	66.5	65.2	65.5	64.6	63.5	65.6	64.9	63.4	64.7	62.9	115.0
VEHICLE ATT CONFIG 0-M IN	100	69.8	69.2	69.9	69.3	69.7	67.2	64.5	67.8	68.9	65.1	65.9	63.9	65.7	67.2	116.7
LDC PTO	125	66.9	68.2	67.2	66.7	65.4	64.4	62.0	63.3	63.2	60.6	59.4	61.1	61.9	61.5	113.8
DATE 08/09/74	160	65.7	63.9	64.9	63.3	65.1	62.9	61.8	61.1	61.1	57.9	58.6	60.1	60.9	60.0	111.2
RUN 658	200	69.8	69.0	69.2	67.1	68.9	66.3	66.6	67.0	68.1	68.0	65.9	64.0	64.0	64.3	118.4
TAPE A943	250	76.6	76.0	75.2	74.5	73.3	71.0	69.6	67.9	67.3	64.0	62.9	62.1	60.8	62.4	118.9
BAR 28.9 HG	315	76.6	77.0	76.1	77.2	75.0	72.3	68.6	68.1	66.4	63.3	61.9	61.9	62.1	61.1	120.3
(97601. N/M2)	400	74.3	74.8	75.1	73.0	72.9	70.8	66.5	63.8	63.9	61.9	60.7	61.6	61.6	62.2	117.9
TAMB 75. DEG F (297. DEG K)	500	73.5	73.8	73.9	74.1	71.6	72.7	72.4	70.0	75.1	74.0	73.7	65.5	62.5	67.2	122.2
THET 69. DEG F (293. DEG K)	630	77.1	77.2	76.5	76.7	77.3	74.6	69.8	70.0	70.3	67.5	68.4	64.1	63.0	64.3	121.7
MACT 15.66 GM/M3 (.01566 KG/M3)	800	76.6	76.4	76.3	75.3	73.9	72.2	69.6	67.1	67.3	67.1	64.2	67.9	63.1	64.1	120.1
NFA 6433. RPM (674. RAD/SEC)	1000	78.2	78.3	80.4	78.8	75.5	73.5	71.1	69.4	66.3	67.6	64.5	67.2	67.4	65.4	122.4
NFK 6336. RPM (663. RAD/SEC)	1250	79.7	80.0	81.4	79.5	78.2	79.1	73.9	72.2	71.0	70.3	68.0	69.0	69.1	68.3	124.9
NFD 18628. RPM (1113. RAD/SEC)	1600	78.8	79.1	80.5	80.7	79.5	79.2	75.8	74.4	70.4	68.4	67.1	67.9	66.8	67.2	125.3
NO. OF BLAUPS 44	2000	82.0	81.4	82.3	84.7	84.1	83.5	79.8	79.1	74.5	73.1	71.1	71.4	69.9	70.6	129.4
OVERALL MEASURED	2500	84.5	85.0	85.2	85.4	85.2	86.3	82.6	80.1	75.3	71.9	70.9	69.8	70.0	69.0	131.2
OVERALL CALCULATED	3150	94.9	93.3	94.3	92.5	92.5	90.3	86.9	83.5	79.6	76.5	73.4	74.2	74.3	72.3	137.5
PNDR	4000	90.5	90.3	89.9	91.4	91.1	92.0	87.7	82.2	79.1	73.2	72.2	72.9	72.9	72.0	136.4
	5000	90.8	95.2	96.2	92.6	97.3	97.2	93.8	87.4	87.3	81.3	79.4	79.4	80.0	77.3	142.3
	6300	91.0	91.2	90.2	91.3	89.1	89.2	86.1	79.4	74.4	73.2	70.3	70.5	70.0	69.5	136.0
	8000	90.0	91.2	91.1	92.3	93.9	93.3	89.9	82.2	79.5	74.4	74.0	74.1	73.2	72.1	139.6
	10000	87.6	89.3	89.2	90.1	90.2	90.2	86.8	79.2	75.0	71.1	69.8	69.0	67.7	67.9	137.4
	12500	85.1	85.4	84.8	87.0	86.7	86.5	84.1	75.3	71.8	75.7	68.4	70.8	70.2	71.5	135.4
	16000	80.6	81.3	80.4	82.2	83.1	82.3	79.6	71.1	67.1	67.0	63.2	66.0	63.8	65.3	133.0
	20000	76.3	77.8	75.4	76.9	77.5	76.8	73.2	66.5	66.7	70.7	64.3	68.2	67.2	68.5	131.0
	99.5	100.1	101.0	100.2	101.0	101.3	97.6	93.3	91.1	88.3	86.2	86.2	85.1	86.1	86.1	147.8
	99.9	100.6	101.0	100.4	101.6	101.4	97.9	92.2	90.3	86.7	84.7	84.6	84.4	83.6	82.8	
	114.1	114.1	114.7	113.3	115.2	114.9	111.5	106.3	105.0	100.5	98.7	98.7	98.7	97.2	96.3	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)			
50	75.3	76.1	76.8	76.2	74.9	74.1	72.7	73.7	72.9	72.0	71.7	71.8	70.6	72.7	70.9	122.8	
63	73.8	74.0	74.2	73.3	76.9	76.3	72.8	70.2	72.1	72.2	69.2	69.2	67.8	69.0	69.2	122.0	
RADIAL 100. FT. (30. M)	80	68.5	67.9	67.9	68.0	66.7	66.0	65.5	65.5	64.6	63.7	65.5	64.8	62.6	64.8	63.0	115.0
VEHICLE ATT CONFIG 9-M IN	100	70.7	70.3	71.1	71.3	69.8	68.0	65.5	68.2	68.9	66.9	65.8	64.8	66.6	68.2	70.3	117.7
LOC PTO	125	67.8	69.4	70.2	71.4	66.1	65.2	64.8	65.4	68.5	65.2	62.1	64.5	64.9	62.5	64.3	115.9
DATE 08/09/74	160	65.5	63.0	65.0	63.1	65.1	62.5	61.1	61.9	57.9	59.1	61.1	60.7	68.2	60.3	111.4	
MUM 659	200	69.6	70.0	69.0	67.2	67.9	65.4	63.9	64.0	63.3	62.1	62.9	68.0	60.1	61.0	61.4	114.0
TAPE A943	250	76.8	76.4	76.0	74.3	72.8	72.1	69.6	68.9	67.1	64.3	64.3	62.4	62.0	62.3	64.1	119.2
BAR 28.9 HG	315	76.6	76.0	76.3	75.4	73.8	71.1	68.9	68.9	66.1	65.0	61.1	62.3	65.8	64.0	64.1	119.5
(97601. N/M2)	400	73.4	73.0	73.0	72.2	71.1	69.2	65.6	64.8	63.9	62.1	61.0	61.8	62.6	62.8	62.9	116.8
TAMB 75. DEG F	500	73.3	73.8	72.9	74.8	75.8	69.8	65.5	68.9	73.1	72.1	66.9	68.9	69.5	64.1	66.7	120.9
(297. DEG K)	630	78.1	78.6	78.4	78.5	79.3	74.3	69.8	72.1	75.5	75.2	76.5	72.2	71.0	65.3	69.6	124.9
TNET 69. DEG F	800	80.1	79.2	77.0	79.1	73.8	73.0	72.6	67.9	72.4	71.0	71.9	73.1	78.8	66.0	68.3	122.5
(293. DEG K)	1000	78.5	78.3	79.6	77.7	76.3	75.2	72.0	69.5	67.0	66.6	66.5	74.3	65.2	65.5	64.5	122.9
MACT 15.66 GM/MS (.81366 KG/MS)	1250	78.9	79.4	80.2	79.3	78.0	77.4	73.8	71.0	70.4	69.1	67.3	71.1	69.1	69.0	67.1	124.2
NFA 6746. RPM	1400	79.3	78.5	80.5	80.5	79.5	79.3	75.7	72.1	70.3	67.5	66.1	70.0	67.1	67.2	66.2	125.2
(706. RAD/SEC)	2000	82.1	81.4	82.2	84.8	85.4	84.3	80.9	77.1	73.3	72.2	72.3	72.4	70.2	69.5	69.5	129.8
NFK 6644. RPM	2500	84.1	85.0	86.0	86.2	87.0	87.1	82.9	77.9	76.0	73.1	71.1	70.9	70.7	69.2	70.0	132.0
(696. RAD/SEC)	3150	92.1	92.3	92.4	91.5	90.1	88.4	85.1	82.2	78.6	75.3	72.2	73.5	73.2	71.5	70.5	135.8
NFD10628. RPM	4000	91.9	91.3	91.0	92.2	90.9	92.1	87.8	83.2	79.2	74.3	73.1	73.3	72.7	72.3	70.3	137.2
(1113. RAD/SEC)	5000	89.8	94.2	95.2	91.5	97.0	94.6	92.7	87.1	85.3	80.5	78.3	77.4	78.0	76.1	75.5	141.1
NO. OF BLADES 44	6300	91.8	91.4	90.5	91.7	90.4	90.6	88.0	81.5	78.2	75.4	71.3	72.1	71.1	71.1	70.2	137.0
16000	8000	89.6	91.2	91.4	92.4	93.3	91.5	88.6	81.2	78.2	73.0	72.1	72.1	71.1	71.3	72.1	138.7
20000	10000	88.5	90.0	89.3	90.5	91.1	90.1	86.6	80.0	74.9	71.2	69.9	68.9	67.9	68.1	69.0	137.7
OVERALL MEASURED	12500	85.3	86.9	85.8	86.7	87.4	86.7	84.1	76.4	72.5	76.7	68.8	71.6	71.2	72.3	70.8	135.7
OVERALL CALCULATED	16000	82.5	82.4	81.3	83.6	84.0	82.4	79.6	72.0	68.1	68.8	64.0	65.9	65.0	67.0	65.3	133.7
PWBS	20000	76.9	77.6	76.8	78.0	78.6	76.8	74.4	67.6	66.4	70.4	64.6	67.4	67.2	68.4	67.5	131.6
		99.9	100.0	100.2	100.3	101.2	100.4	97.7	92.3	91.1	88.3	87.2	87.4	85.9	86.0	86.1	
		99.5	100.5	100.6	100.4	101.5	100.2	97.4	92.0	89.5	86.8	84.9	85.1	84.2	83.5	83.2	147.2
		112.8	113.6	114.1	113.2	115.1	113.4	110.8	106.8	104.0	108.2	98.4	98.4	96.1	96.7	96.4	

659

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	
50	74.4	75.0	75.8	74.8	73.7	72.9	71.7	72.8	72.0	71.9	70.9	70.1	69.8	71.8	69.8	121.0	
63	74.9	73.1	74.3	72.5	76.9	75.8	72.6	70.1	71.3	73.1	70.2	69.2	66.8	70.0	69.0	121.9	
RADIAL 100. FT. ( 30. M)	80	68.2	67.8	67.6	67.8	66.5	65.9	65.2	65.5	64.7	65.7	65.9	64.6	63.4	64.7	62.8	115.1
VEHICLE ATT CONFIG B-M IN	100	69.5	68.3	69.0	69.1	68.8	66.9	64.8	67.8	68.1	68.3	67.1	63.1	65.6	67.2	65.9	116.9
LOC PTO	125	66.8	67.5	66.3	66.7	65.2	63.2	61.9	63.3	63.3	62.3	62.5	60.4	62.2	61.3	62.2	113.0
DATE 08/09/74	160	65.5	62.9	65.9	63.3	65.1	62.1	61.8	60.0	60.9	64.2	59.9	60.2	60.6	60.0	59.2	111.8
RUN 660	200	70.6	70.1	69.4	67.2	69.1	66.2	66.9	67.1	68.3	68.3	65.2	64.2	63.8	64.3	61.0	116.5
TAPE A943	250	76.6	76.1	76.0	74.2	72.2	71.2	69.6	68.1	67.0	64.4	63.0	61.2	61.0	62.4	63.0	118.9
BAR 28.9 HG	315	76.8	77.4	77.0	76.2	73.9	70.9	68.9	68.9	66.3	64.1	62.3	61.2	60.9	61.3	62.2	119.7
(97601. N/M2)	400	74.4	73.9	74.1	73.2	72.8	70.0	66.6	64.7	63.8	62.9	61.0	61.8	61.6	62.9	62.1	117.6
TAMB 75. DEG F	500	72.3	73.8	77.0	75.9	71.6	76.0	73.7	67.6	75.1	75.2	74.0	64.0	64.6	69.1	67.9	123.1
(297. DEG K)	630	77.1	77.6	77.5	75.6	74.1	72.4	70.1	67.0	69.2	68.6	68.2	64.1	63.2	64.3	63.5	120.7
TWET 69. DEG F	800	75.6	76.1	76.1	76.5	73.0	72.0	69.2	66.8	67.3	67.3	66.2	64.3	63.8	64.1	62.0	120.0
(293. DEG K)	1000	77.9	78.7	79.6	78.8	76.2	75.4	71.2	70.4	67.3	67.7	66.5	67.2	65.0	65.3	63.4	122.7
MACT 15.66 GM/M3	1250	80.7	80.3	82.4	81.3	80.1	79.3	76.0	74.2	70.3	69.4	70.1	69.0	69.8	69.4	66.0	126.0
(.01566 KG/M3)	1600	79.1	79.4	80.4	80.5	80.2	80.3	75.9	73.0	71.1	69.3	68.1	68.1	66.9	67.3	65.2	125.7
NFA 6934. RPM	2000	81.2	81.6	82.6	83.7	83.3	83.2	79.0	77.1	75.0	73.3	73.4	71.4	71.2	69.3	67.4	128.9
( 474. RAD/SEC)	2500	84.8	85.1	85.0	85.5	86.2	85.2	81.7	76.8	75.9	71.2	71.0	69.1	69.7	68.4	68.0	130.9
NFK 6637. RPM	3150	94.0	94.7	95.3	92.6	92.4	90.5	87.0	83.4	79.5	76.7	73.5	74.2	72.2	72.5	72.4	137.8
( 663. RAD/SEC)	4000	90.8	90.4	90.4	91.4	91.2	92.2	88.0	82.0	79.0	73.4	73.2	73.1	72.5	72.0	70.0	137.0
NFD 10628. RPM	5000	90.5	94.3	95.5	92.5	96.5	96.1	93.8	87.3	86.5	80.7	79.3	78.3	81.0	77.6	76.2	142.2
( 1113. RAD/SEC)	6300	91.0	90.3	89.3	90.7	90.2	90.1	87.1	79.4	75.4	73.5	70.3	70.1	69.2	69.5	68.5	136.2
NO. OF BLADES 44	8000	90.0	90.2	91.2	92.6	94.0	93.3	90.1	82.0	80.1	74.2	74.1	73.3	72.8	72.2	72.3	139.7
16000	10000	87.5	89.0	88.0	90.3	91.0	89.9	86.6	79.8	75.8	72.0	69.3	68.2	67.9	68.3	68.3	137.4
20000	12500	85.4	86.6	84.6	87.0	87.5	86.4	84.2	76.7	72.7	76.0	68.5	73.6	70.4	71.5	70.7	135.6
OVERALL MEASURED	16000	81.8	82.3	81.2	83.4	84.0	82.0	79.7	72.1	67.3	67.5	61.3	63.3	63.8	63.3	63.1	133.5
OVERALL CALCULATED	20000	77.4	77.8	75.3	77.9	78.5	77.5	74.0	67.3	65.7	72.6	62.6	67.6	66.2	67.8	66.3	131.6
PND8	99.8	100.1	101.1	100.4	101.2	100.2	97.5	92.8	90.1	90.5	87.4	85.0	85.9	85.1	85.3		
	99.7	100.6	101.0	100.4	102.3	101.0	98.0	91.9	90.1	86.8	85.1	84.0	84.6	83.7	82.6		
	113.6	114.2	114.8	113.3	115.9	114.3	111.6	106.0	104.6	100.4	99.1	97.9	99.1	97.4	96.1	147.0	

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	75.4	76.1	77.2	76.0	74.7	73.8	72.6	72.6	73.3	72.0	70.8	71.0	70.6	72.1	70.8	122.5
63	74.6	73.9	74.1	73.3	76.0	77.0	71.8	70.1	71.0	72.4	69.9	69.2	67.8	70.1	69.3	121.9
RADIAL 100. FT. ( 30. M)	80	68.2	67.6	67.9	66.0	66.6	66.2	65.5	64.8	64.0	65.5	64.8	63.3	63.9	62.8	135.1
VEHICLE ATT	100	71.5	70.2	71.0	70.4	70.9	69.1	65.4	67.8	69.2	67.0	66.2	65.9	69.0	70.2	118.1
CONFIG R-M IN	125	68.1	69.2	69.3	68.4	67.1	66.5	64.1	67.1	68.2	64.4	63.4	63.5	63.9	64.5	115.8
LOC PTO	160	65.9	63.3	65.0	64.0	65.2	64.9	62.6	62.0	61.9	60.1	59.9	61.1	61.9	60.2	112.0
DATE 08/09/74	200	69.8	70.0	69.1	67.2	69.2	66.3	64.6	65.6	63.3	63.2	62.3	60.2	60.0	61.3	114.6
HUN 663	250	76.9	76.1	76.4	74.2	72.1	71.3	69.6	69.2	67.3	64.5	63.9	62.0	61.1	62.4	119.1
TAPE A943	315	76.7	76.1	76.4	75.1	73.8	71.0	68.6	67.8	66.2	64.4	62.9	62.0	62.1	62.4	119.2
BAR 28.9 HG	400	74.4	73.8	74.1	73.0	70.8	68.8	66.5	64.7	64.0	62.3	62.8	61.8	62.6	62.3	117.1
(97635. N/M2)	500	73.4	75.1	73.0	76.2	78.1	70.8	64.4	68.6	74.8	73.2	69.9	72.1	69.5	63.8	122.4
TAMB 73. DEG F	630	77.9	78.4	77.4	78.5	79.4	74.2	67.9	73.0	75.2	75.4	78.5	73.2	71.2	66.3	125.2
(296. DEG K)	800	77.8	76.1	75.3	74.5	72.0	71.0	67.9	66.9	66.3	68.4	73.0	69.2	69.1	63.5	120.4
TWET 69. DEG F	1000	78.0	78.7	79.7	76.5	75.2	74.3	71.9	67.4	66.3	65.4	67.5	67.5	64.2	65.6	121.8
(293. DEG K)	1250	79.0	79.2	79.3	79.6	78.3	76.0	73.0	69.2	70.0	67.5	66.0	69.0	67.1	68.3	123.6
HACT16.39 GM/M3	1600	78.1	78.5	79.6	79.4	79.3	78.3	74.1	71.0	70.4	67.3	66.3	67.1	66.2	66.3	124.4
(.01639 KG/M3)	2000	82.0	81.3	82.6	83.5	83.4	83.2	79.2	76.3	74.4	76.3	68.3	71.1	70.3	68.2	128.6
NFA 6726. RPM	2500	83.7	84.0	85.9	86.5	86.0	86.3	82.0	77.9	75.8	71.3	70.9	70.7	69.1	69.2	131.4
( 704. RAD/SEC)	3150	92.9	92.5	92.8	91.7	90.3	89.5	85.2	82.2	79.3	76.4	72.5	72.7	72.3	71.5	136.2
NFK 6640. RPM	4000	92.0	91.0	90.2	91.2	90.0	92.4	88.7	82.9	79.1	73.1	72.2	73.1	72.9	72.3	136.9
( 695. RAD/SEC)	5000	89.8	94.2	94.7	91.6	96.4	93.4	91.9	85.0	82.3	80.7	77.4	76.5	79.1	79.4	140.3
NFD10628. RPM	6300	92.2	91.5	90.6	91.4	90.2	89.7	86.9	80.1	74.8	75.4	71.1	71.2	70.1	70.5	136.5
(1113. RAD/SEC)	8000	90.7	92.1	92.3	93.6	92.1	91.4	88.8	81.1	78.1	73.1	72.3	72.3	71.0	71.2	138.8
NO. OF BLADES 44	12500	88.6	90.1	89.1	90.1	90.1	91.3	86.7	79.8	75.1	72.0	69.9	69.0	67.7	68.3	137.8
16000	86.3	86.7	85.8	86.9	87.4	86.3	84.1	76.4	72.6	77.9	69.3	71.6	71.4	72.3	71.4	139.7
20000	82.7	83.2	81.0	83.2	84.0	82.9	80.7	71.9	67.8	71.0	63.7	64.0	64.8	65.2	65.1	133.9
OVERALL MEASURED	77.8	78.5	76.4	78.7	78.4	77.3	74.9	68.0	66.1	72.6	64.0	67.4	65.9	67.5	67.4	131.9
OVERALL CALCULATED	99.7	100.1	100.3	100.3	101.0	100.1	96.9	92.0	89.4	88.6	87.1	86.1	86.1	86.2	86.4	
PWDB	99.9	100.6	100.5	100.4	100.8	100.0	97.1	91.1	88.6	87.0	85.0	84.4	84.2	84.1	83.8	147.0
	113.2	113.6	113.9	112.9	114.5	112.7	110.2	104.7	102.3	100.2	98.0	97.5	98.3	98.2	97.7	

663

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
	50	74.6	74.9	75.7	74.2	73.7	73.0	71.6	72.0	72.1	70.2	69.7	70.0	69.7	71.2	70.0	121.4
	63	74.4	73.2	74.1	72.1	74.9	76.9	71.8	70.2	71.0	72.4	68.8	68.2	66.8	70.1	68.2	121.9
RADIAL 100. FT.	80	68.4	67.9	67.8	67.1	66.8	66.6	65.4	65.5	64.6	63.7	65.7	64.6	63.7	64.0	62.8	115.0
( 30. M )	100	69.8	69.2	69.2	68.1	69.1	66.9	64.8	67.9	68.1	64.9	64.8	63.9	65.7	67.0	67.1	116.9
VEHICLE ATT	125	66.5	67.4	65.5	65.6	64.1	63.4	61.8	63.4	63.3	60.3	59.1	60.1	62.3	61.3	62.4	112.4
CONFIG B-M IN	160	64.7	62.9	65.0	63.3	65.2	63.9	61.8	61.0	61.2	56.7	58.8	59.9	60.9	60.0	58.0	111.3
LOC PTO	200	70.6	69.9	69.1	67.1	69.9	66.2	66.6	67.9	69.3	67.8	66.1	64.0	63.9	66.1	61.1	116.9
DATE 08/09/74	250	76.8	76.3	76.1	75.3	73.0	71.9	69.8	69.0	66.9	64.1	63.2	61.9	61.2	62.4	63.1	119.4
RUN 664	315	76.5	76.4	77.3	76.3	74.2	71.9	68.9	67.9	67.1	63.9	62.1	62.2	61.9	61.3	62.1	119.8
TAPE A943	400	74.3	72.8	74.0	73.1	72.7	71.1	66.7	64.0	64.1	61.9	60.7	61.1	61.9	62.2	61.9	117.6
BAR 28.9 HG	500	72.3	72.6	73.7	73.9	70.9	72.7	70.7	69.0	74.8	74.9	72.5	65.7	62.8	64.9	66.8	121.6
(97639. N/M2)	630	76.0	76.4	76.5	75.3	74.1	71.3	68.1	67.2	68.5	67.0	67.4	63.2	62.3	63.4	63.3	119.9
TAMB 73. DEG F	800	74.6	74.2	74.3	74.2	72.2	71.2	67.9	65.9	67.4	67.2	64.9	64.9	61.9	63.4	62.1	118.8
(296. DEG K)	1000	78.2	77.4	77.7	75.6	75.3	74.2	69.9	69.4	65.5	67.4	63.4	65.5	64.1	64.6	63.6	121.0
THET 69. DEG F	1250	78.8	78.1	78.4	79.3	78.3	76.9	73.9	70.9	68.1	67.1	65.2	66.9	66.8	67.4	67.3	123.5
(293. DEG K)	1600	79.0	77.5	79.6	79.7	79.5	78.2	73.7	72.1	68.2	66.2	65.3	65.4	64.0	66.2	67.2	124.3
MACT 16.39 GM/M3	2000	81.0	80.4	81.4	82.5	82.5	81.2	78.2	74.1	71.6	70.3	68.0	67.0	68.3	67.2	67.4	127.2
(.01639 KG/M3)	2500	83.7	85.0	85.0	84.2	85.0	83.9	79.9	75.0	75.2	68.8	68.9	68.1	70.1	67.4	68.1	129.7
NFA 6420. RPM	3150	94.0	95.3	95.4	92.5	92.3	90.6	86.9	83.4	79.5	75.3	72.0	73.2	72.4	71.4	71.5	137.8
( 672. RAD/SEC)	4000	90.6	90.0	89.1	91.2	90.2	91.0	87.9	81.0	77.8	73.2	72.1	71.8	71.9	71.1	68.9	136.2
NFK 6338. RPM	5000	89.8	93.6	93.5	89.6	96.2	95.4	91.8	85.3	84.3	79.5	76.1	75.0	77.2	76.6	75.5	140.5
( 664. RAD/SEC)	6500	98.6	91.1	89.3	90.3	90.2	89.2	85.8	79.4	75.2	73.4	70.0	70.0	69.4	69.5	69.1	135.8
NFD 10628. RPM	8000	89.5	90.4	90.3	92.3	94.4	93.1	90.9	82.1	79.4	74.2	74.0	73.1	72.2	73.0	74.2	139.7
(1113. RAD/SEC)	10000	87.4	88.9	88.0	89.1	90.1	89.7	85.7	78.9	75.1	70.8	68.7	67.9	67.1	68.0	67.9	136.8
NO. OF BLADES 44	12500	85.2	86.6	84.7	86.8	86.3	87.4	84.0	76.2	72.4	76.8	68.4	71.3	70.2	72.4	71.3	139.6
	16000	80.3	81.9	79.9	83.3	83.2	82.9	79.4	71.0	67.1	68.9	63.7	65.7	64.8	65.0	64.2	133.3
	20000	76.7	78.4	75.1	77.6	78.2	77.1	75.0	67.1	66.4	72.4	65.3	68.0	67.3	69.3	68.2	131.7
OVERALL MEASURED		99.5	100.0	99.4	99.2	101.1	99.9	97.6	91.2	90.1	88.5	85.2	86.3	85.0	86.4	85.1	
OVERALL CALCULATED		99.3	100.6	100.2	99.7	101.3	100.5	97.3	90.9	88.8	86.0	83.2	82.8	82.9	83.2	82.7	147.0
PWDB		113.4	114.4	114.3	112.8	114.5	113.6	110.2	104.6	103.1	99.2	96.6	95.9	96.8	96.5	95.9	

MODEL SOUND PRESSURE LEVELS (59 DEG. F. 70 PERCENT REL. HUM. DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)			
50	73.4	76.1	76.9	75.2	75.0	73.9	72.4	72.7	72.8	72.0	70.7	71.1	70.8	72.0	70.8	122.4	
63	74.5	74.0	74.2	73.2	76.2	77.1	71.8	70.2	71.2	72.1	69.2	69.0	66.7	70.3	69.1	121.9	
RADIAL 100. FT. (30. M)	80	69.4	67.6	67.6	67.8	66.7	65.9	65.4	64.8	64.8	63.7	65.8	64.4	62.2	64.9	62.7	114.9
VEHICLE ATT	100	71.8	69.9	71.2	70.2	70.8	69.2	65.5	67.8	69.2	67.0	66.8	65.8	65.6	67.9	69.8	117.9
CONFIG R-N IN	125	68.0	69.5	69.8	68.7	67.3	66.5	64.1	67.1	69.4	65.2	63.1	64.4	63.9	64.4	64.2	116.0
LOC PTO	160	65.5	62.9	65.2	64.4	65.9	63.2	62.7	60.8	61.9	58.9	58.8	61.0	68.8	59.9	59.0	111.7
DATE 08/09/74	200	70.5	70.2	69.0	67.2	68.9	66.1	64.5	64.8	63.2	63.1	63.1	60.0	59.8	61.2	60.3	114.4
RUN 665	250	76.6	76.1	76.3	75.1	73.3	72.0	69.8	69.2	67.0	64.4	64.9	62.3	61.8	61.9	62.9	119.5
TAPE A943	315	76.5	75.3	76.0	75.6	73.9	71.1	68.5	68.8	67.0	64.3	61.9	61.0	65.0	63.8	63.9	119.4
BAR 28.9 HG (97635. N/M2)	400	73.7	72.8	73.9	72.3	71.0	69.0	65.3	64.7	64.0	62.1	68.8	61.8	62.8	62.8	61.9	116.8
TAMB 72. DEG F (295. DEG K)	500	74.2	75.1	72.9	73.9	76.9	68.9	64.3	69.0	75.0	73.8	69.0	70.9	78.8	63.4	68.0	121.9
TMET 68. DEG F (293. DEG K)	630	77.1	78.4	77.5	78.5	79.2	74.1	68.1	73.1	75.1	75.3	77.2	72.4	78.9	66.2	70.2	124.9
MACT 16-10 GN/H3 (.01610 KG/H3)	800	77.7	75.1	74.9	74.2	73.8	72.1	71.5	67.2	69.0	70.4	73.1	70.2	69.7	65.0	69.0	121.3
NFA 6729. RPH (705. RAD/SEC)	1000	76.8	77.4	78.6	76.5	76.2	74.1	71.9	68.0	66.2	64.3	66.2	66.2	64.2	65.2	65.3	121.6
NFK 6646. RPH (696. RAD/SEC)	1250	77.9	78.2	78.2	78.3	78.3	76.1	73.5	68.8	68.1	66.3	67.0	68.2	67.8	69.0	66.1	123.2
NFD 10628. RPH (1113. RAD/SEC)	1600	78.8	78.3	79.3	77.4	78.2	78.6	73.9	71.3	68.4	66.4	66.3	67.5	67.2	67.1	65.4	124.1
NO. OF BLADES 44	2000	81.3	81.3	81.4	83.4	85.4	83.3	80.2	76.4	73.4	70.6	70.1	71.3	71.9	69.1	69.2	129.2
OVERALL MEASURED	2500	83.6	85.0	85.3	86.1	87.0	85.0	80.6	77.9	74.1	73.1	71.1	70.1	71.0	68.8	69.2	131.1
OVERALL CALCULATED	3150	91.9	92.4	92.6	91.4	89.5	88.6	85.2	81.2	78.2	74.6	72.0	72.1	72.0	71.4	71.5	139.7
	4000	91.6	90.3	90.5	91.2	90.9	91.3	87.9	81.9	79.0	73.1	73.1	72.9	71.7	71.1	69.2	136.0
	5000	89.7	94.6	95.2	91.7	96.0	93.3	93.1	87.3	84.2	79.3	78.1	76.1	76.3	76.3	75.2	140.6
	6300	90.8	91.3	90.5	91.4	90.0	90.5	87.8	81.4	76.3	75.4	71.3	71.4	71.0	78.3	70.5	136.6
	8000	89.7	91.4	92.2	92.2	93.0	91.5	87.7	81.0	79.1	73.0	72.3	72.0	72.0	71.2	72.3	138.6
	10000	88.5	90.3	89.3	90.0	91.1	90.0	86.3	79.1	75.1	71.9	69.7	68.7	67.5	68.8	68.9	137.6
	12500	86.0	87.4	85.5	87.6	87.3	87.5	84.0	76.2	72.3	74.6	69.2	70.5	70.1	71.6	70.7	136.0
	16000	82.5	82.9	81.9	83.5	83.9	83.3	80.4	72.0	68.1	68.9	63.8	66.0	64.5	66.1	63.9	134.0
	20000	76.8	78.3	76.5	78.4	78.2	77.6	74.8	67.3	65.4	71.1	64.4	67.0	65.6	68.3	66.1	131.7
PNDR	112.4	113.7	114.0	112.6	114.5	112.5	110.8	105.9	103.2	99.5	98.3	97.2	97.1	96.6	98.1	147.0	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	ANGLES FROM INLET IN DEGREES (AND RADIAN)														PHL			
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )		
50	74.5	74.7	74.7	74.3	73.6	72.8	71.4	71.9	72.2	69.9	69.8	70.1	69.6	71.2	70.0		121.2	
63	73.7	73.1	73.1	71.4	75.1	76.3	71.6	69.1	71.4	72.0	68.2	68.2	66.7	69.0	68.9		121.1	
RADIAL 100. FT.																		
(30. M)																		
80	68.4	67.6	66.9	66.8	65.6	65.8	65.2	65.0	64.7	63.0	64.7	64.6	63.3	63.9	61.9		114.4	
100	69.7	69.0	70.1	68.4	69.1	65.9	64.8	66.9	67.0	64.2	65.1	63.9	65.9	66.2	65.9		116.1	
VEHICLE ATT																		
125	66.7	67.5	66.1	65.3	64.2	63.2	62.0	62.4	63.3	60.3	59.4	60.4	62.3	60.3	62.2		112.3	
CONFIG B-M IN																		
160	65.4	63.2	65.1	63.1	65.1	61.9	61.5	60.9	61.0	57.2	58.8	60.9	60.7	60.0	58.9		111.1	
LOC P10																		
200	69.8	70.2	69.1	67.3	69.0	67.2	64.9	68.2	68.1	68.3	62.8	61.3	65.8	64.1	63.1		116.4	
DATE 08/09/74																		
250	76.6	76.3	75.0	74.5	73.0	71.0	69.6	68.2	67.0	64.0	61.8	61.0	60.8	62.4	62.2		118.8	
RUN 866																		
315	76.5	75.9	77.1	76.3	75.2	71.3	69.5	68.3	66.1	65.0	62.2	61.0	62.1	63.1	62.0		119.9	
TAPE A943																		
400	74.3	74.0	74.8	74.2	73.7	70.8	69.6	65.1	63.9	60.9	60.9	61.0	61.8	63.0	63.2		118.1	
BAR 28.9 HG																		
500	74.2	72.8	73.1	71.0	69.9	66.0	63.7	64.6	71.0	64.1	65.6	61.7	59.5	65.1	61.9		117.2	
(97635. N/M2)																		
630	77.2	76.6	76.6	75.6	73.3	70.4	67.7	67.3	66.5	64.7	64.4	61.5	62.2	63.2	62.5		119.4	
TAMB 72. DEG F																		
800	75.9	74.0	74.0	74.2	71.9	70.0	68.5	68.0	65.1	63.3	64.1	62.0	61.8	61.3	61.3		118.3	
(295. DEG K)																		
1000	77.9	77.5	78.7	76.7	75.5	73.6	70.8	68.5	68.5	65.3	66.2	65.3	64.3	64.4	62.5		121.4	
TWET 68. DEG F																		
1250	79.7	79.4	79.4	78.7	77.0	76.3	72.8	70.4	69.3	67.1	65.0	67.9	68.0	67.0	65.3		123.2	
(293. DEG K)																		
1600	79.1	78.2	79.3	78.5	78.1	78.4	75.1	71.5	69.4	65.2	66.8	66.3	66.8	66.2	65.0		123.9	
MACT16.10 GM/M3																		
2000	81.1	80.5	81.6	82.7	81.4	80.2	76.8	74.5	71.3	68.1	67.4	67.1	68.3	67.2	67.1		126.7	
(.01610 KG/M3)																		
2500	83.8	85.3	85.4	85.2	84.1	84.2	80.8	77.0	73.3	69.3	69.9	68.9	70.0	68.1	68.9		138.0	
NFA 6305. RPM																		
3150	94.7	93.6	94.4	92.6	91.5	90.4	85.9	82.4	78.3	75.5	72.4	73.2	73.3	72.6	72.5		137.2	
(660. RAD/SEC)																		
4000	89.8	90.3	89.5	90.2	90.2	91.3	86.6	81.4	78.0	72.0	71.9	71.9	71.6	71.0	70.3		136.0	
NFK 6227. RPM																		
5000	90.0	93.1	94.7	91.8	94.0	94.4	91.8	85.5	83.3	77.6	76.4	75.4	76.9	74.2	73.4		139.8	
(652. RAD/SEC)																		
6300	90.8	90.4	89.6	91.4	89.1	88.4	85.5	78.3	74.1	72.4	69.1	69.2	69.1	69.2	69.0		135.5	
NFD10628. RPM																		
8000	88.7	90.3	90.5	91.6	94.2	93.3	89.7	81.5	79.2	74.2	73.1	73.3	72.7	73.0	73.0		139.4	
(1113. RAD/SEC)																		
10000	87.7	88.8	87.3	89.5	90.0	89.1	84.8	78.0	73.9	70.8	68.8	67.8	68.9	68.0	67.8		136.5	
NO. OF BLADES 44																		
12500	85.0	85.6	84.5	86.9	86.3	86.3	84.0	74.6	72.3	75.5	68.3	70.4	70.0	71.4	70.6		135.1	
16000	80.5	81.9	80.0	82.1	82.8	81.8	78.5	69.8	67.2	67.9	63.7	64.8	64.8	65.1	62.8		132.6	
20000	76.2	77.5	75.4	77.5	77.1	76.2	73.8	66.4	66.4	73.2	65.4	68.0	67.2	69.3	67.1		131.2	
OVERALL MEASURED	99.8	100.0	100.1	100.3	100.2	99.9	96.7	91.1	89.3	87.2	85.2	85.2	85.1	85.4	85.1			
OVERALL CALCULATED	99.5	99.9	100.2	99.9	100.4	100.0	96.7	90.7	88.1	84.9	82.8	82.7	83.0	82.7	82.1			
PNDB	113.8	113.4	113.9	112.9	113.0	112.9	109.9	104.6	102.3	97.7	96.5	95.9	96.7	95.4	94.8			146.5



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	76.6	76.8	77.8	76.6	75.7	75.2	72.5	73.9	72.7	72.5	72.0	71.7	71.9	72.0	71.0	73.0	123.4
63	76.0	75.9	75.3	74.0	77.2	77.4	73.6	72.1	71.6	73.7	71.4	70.8	71.0	70.1	70.1	70.2	123.1
RADIAL 100. FT. (30. M)	80	71.7	70.7	70.6	70.4	69.9	68.2	68.8	67.5	67.3	68.8	67.6	66.7	67.0	64.6	66.7	118.1
VEHICLE ATT CONFIG B-M IN	100	73.0	72.1	72.3	68.8	71.9	69.1	65.7	68.2	65.9	65.7	67.1	65.0	66.8	68.3	67.8	117.9
LOC PTO	125	72.8	73.1	70.0	69.1	68.3	67.2	67.7	68.0	66.0	64.7	65.1	68.1	67.0	64.4	66.1	117.2
DATE 8/09/74	160	67.0	64.2	67.2	64.7	66.2	64.4	63.6	62.3	61.8	60.1	60.3	61.8	64.1	62.5	61.1	113.1
RUN 667	200	71.9	71.2	70.4	67.9	69.4	66.4	65.7	65.0	63.9	62.0	60.5	59.9	62.9	63.3	61.2	115.1
TAPE A943	250	78.1	77.2	77.1	76.0	74.0	73.3	72.5	71.2	69.8	68.9	67.4	63.9	65.0	64.5	67.1	121.2
BAR 28.9 HG	313	79.0	78.1	78.2	77.0	76.2	73.0	69.6	69.3	66.6	66.9	64.1	64.1	65.1	65.2	65.1	121.2
(97635. N/M2)	400	75.9	76.1	75.9	74.0	73.1	72.9	67.5	66.8	68.0	69.5	66.0	63.8	66.0	67.0	65.1	120.0
TAMB 72. DEG F	500	81.0	80.2	80.4	79.3	79.2	75.3	73.0	74.2	70.0	70.2	71.3	72.0	70.3	69.4	67.4	124.5
(295. DEG K)	600	80.8	78.0	80.2	78.0	81.2	77.1	78.0	78.0	73.8	79.1	76.6	80.1	74.0	73.3	67.2	127.8
THET 68. DEG F	1000	82.3	82.4	86.3	84.3	83.2	82.0	80.9	77.4	75.8	79.0	80.7	79.3	79.2	77.4	76.3	130.7
(293. DEG K)	1250	85.9	86.0	88.3	85.2	85.9	87.1	82.8	80.4	80.1	81.9	81.3	79.3	81.9	79.3	78.3	133.1
HACT 6.10 GM/M3	1600	83.1	85.1	84.3	85.2	83.3	83.2	80.1	78.3	80.9	78.9	72.2	73.0	74.1	77.3	71.1	139.4
(.01610 KG/M3)	2000	87.0	85.2	87.2	85.3	90.5	90.1	82.9	80.5	77.8	75.2	74.6	75.0	76.0	73.5	73.2	134.1
NFA 7519. RPM	2500	87.8	88.1	89.1	89.3	92.0	92.9	89.5	88.9	82.0	78.7	77.5	76.8	78.0	74.3	75.1	137.2
(787. RAD/SEC)	3150	90.1	89.5	91.1	91.1	91.4	91.5	88.9	86.2	83.2	80.3	76.4	74.2	76.0	73.2	73.1	137.2
NFK 7427. RPM	4000	92.9	93.1	92.1	93.1	92.2	93.9	88.8	84.2	80.0	75.9	75.1	74.8	76.1	73.2	72.0	138.5
(778. RAD/SEC)	5000	92.4	94.5	94.4	92.4	93.4	92.0	89.8	83.4	83.2	80.9	76.5	75.1	77.4	75.3	75.5	138.9
NFD 10628. RPM	6300	93.4	93.4	92.4	93.2	92.7	93.2	91.0	84.5	79.3	78.4	75.7	74.1	74.3	73.5	72.5	139.3
(1113. RAD/SEC)	8000	92.1	93.2	92.2	91.3	93.2	91.0	88.6	82.1	78.8	77.8	73.3	73.9	73.8	73.4	73.2	138.7
NO. OF BLADES 44	12500	88.4	88.6	87.7	87.7	87.7	86.7	83.0	76.7	71.4	72.2	67.0	67.4	67.7	67.9	66.7	136.0
OVERALL MEASURED	16000	85.0	86.2	83.0	83.9	83.9	83.0	79.7	75.1	71.8	60.6	71.2	73.9	74.7	74.7	73.9	135.5
OVERALL CALCULATED	20000	80.2	80.2	78.4	78.9	79.3	77.0	74.8	67.3	63.8	67.9	61.6	64.1	65.2	65.5	63.4	132.0
PNDH	101.8	102.3	102.0	100.8	101.7	102.0	98.5	93.9	91.7	91.9	89.5	89.2	89.8	89.1	88.3	89.0	140.1
	101.3	101.8	101.5	101.0	101.9	101.6	98.4	93.7	91.2	90.6	88.3	87.9	88.5	87.1	85.9	85.5	140.1
	114.3	114.7	114.7	114.2	114.4	114.4	110.9	107.5	104.8	102.9	100.2	99.6	100.8	98.6	97.9	97.7	

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)														PWL	
		0° (0.00)	10° (0.17)	20° (0.35)	30° (0.52)	40° (0.70)	50° (0.87)	60° (1.05)	70° (1.22)	80° (1.40)	90° (1.57)	100° (1.75)	110° (1.92)	120° (2.09)	130° (2.27)		140° (2.44)
	50	81.6	81.0	82.0	81.7	80.8	80.1	77.6	78.0	78.6	77.6	76.2	79.1	78.9	78.1	77.1	128.5
	63	73.8	73.1	74.1	72.1	76.2	76.1	71.5	70.2	70.6	72.8	70.4	70.9	69.9	70.1	70.9	121.9
RADIAL 100 FT.	80	69.4	69.8	69.6	68.3	67.6	66.9	67.2	67.5	66.5	68.4	68.1	65.5	64.5	65.1	64.7	116.7
(30. M)	100	70.0	69.3	69.0	66.7	68.1	66.1	63.7	65.8	64.8	65.7	65.1	62.8	65.8	64.5	64.9	115.4
VEHICLE ATT	125	69.0	67.8	67.3	67.8	67.1	66.0	64.6	66.0	68.0	63.7	67.4	66.9	66.9	66.3	66.1	116.4
CONFIG B*M IN	160	69.7	65.2	66.9	69.0	68.2	66.0	63.9	66.0	68.9	64.1	70.0	70.0	68.8	70.3	66.0	117.8
LOC PTO	200	67.1	67.1	67.0	66.8	68.0	65.2	64.9	63.9	62.9	63.2	62.3	61.2	62.2	63.5	62.1	114.0
DATE 8/09/74	250	74.0	74.0	73.3	71.8	70.2	70.3	68.8	68.3	69.7	69.9	67.1	62.9	65.0	65.3	65.2	118.7
RUN 668	315	73.0	74.3	75.1	72.9	71.3	71.0	70.8	69.9	72.1	73.1	69.4	65.1	67.1	66.3	67.9	120.6
TAPE A943	400	74.7	72.3	73.9	72.7	74.1	71.8	74.7	67.1	70.8	67.9	69.1	68.2	71.1	69.2	67.1	121.0
BAR 28.9 HG	500	72.9	77.0	76.0	76.8	80.8	78.7	73.3	71.7	69.7	73.6	70.1	74.7	74.9	69.1	70.0	124.9
(97635. N/M2)	630	80.2	88.7	91.8	90.6	92.4	91.7	91.9	90.3	82.0	88.2	93.5	89.4	87.1	84.5	78.4	140.0
TAMP 72. DEG F	800	89.0	91.3	95.0	99.0	104.1	105.0	104.6	99.3	95.7	96.1	97.2	95.0	96.1	92.4	89.0	149.9
(295. DEG K)	1000	95.0	95.5	98.5	101.3	99.2	101.2	98.0	95.4	95.2	97.3	85.7	94.4	89.1	95.6	88.7	146.9
TWEET 68. DEG F	1250	95.8	93.5	99.2	103.2	7.1	106.0	102.6	103.3	99.8	102.8	95.5	95.2	96.0	94.2	9.1	151.9
(293. DEG K)	1600	93.0	93.5	97.1	100.3	104.3	107.0	106.0	100.0	97.8	103.9	93.4	87.0	93.2	92.5	88.9	151.0
HACT 6.10 GM/M3	2000	9.4	86.8	91.5	93.3	102.3	102.2	100.0	96.3	92.0	92.1	86.7	83.3	84.1	82.5	84.3	146.5
(.01610 KG/M3)	2500	94.1	93.1	93.0	92.9	100.2	100.9	100.0	95.2	88.8	87.9	81.3	84.0	85.9	83.1	84.0	144.4
NFA 8595. RPM	3150	94.1	93.1	93.2	93.3	96.5	100.1	95.0	93.3	90.8	90.2	81.5	80.2	84.3	81.4	82.5	143.6
( 900. RAD/SEC)	4000	96.8	95.0	94.1	94.2	95.1	98.2	95.8	91.0	86.8	83.7	80.5	79.0	80.9	79.4	77.4	142.6
NFK 8489. RPM	5000	94.4	96.5	95.2	91.3	94.2	95.5	93.7	89.2	87.1	83.1	80.4	78.5	83.3	78.6	78.3	141.2
( 889. RAD/SEC)	6300	96.2	94.6	93.3	93.4	93.6	95.5	91.9	87.5	83.2	80.2	77.9	76.4	76.1	75.6	76.4	140.7
NFD 10628. RPM	8000	92.9	93.3	92.2	91.3	93.2	93.3	90.0	86.2	80.9	81.9	76.5	76.9	77.1	77.5	77.3	139.8
(1113. RAD/SEC)	10000	92.0	90.9	89.2	89.0	90.1	91.1	88.7	83.7	78.7	77.8	73.0	71.6	71.9	71.9	72.1	138.2
NO. OF BLADES 44	12500	88.4	87.9	85.5	86.3	86.8	87.6	84.3	79.7	76.4	72.4	68.8	67.7	68.6	66.7	66.8	135.9
	16000	85.7	85.0	81.9	82.7	82.9	83.8	81.5	78.0	74.6	62.9	72.2	76.1	75.9	77.4	76.1	136.1
	20000	79.2	79.3	77.2	77.0	78.4	79.3	76.6	72.2	70.8	76.1	66.4	69.3	69.0	70.6	69.2	133.3
OVERALL MEASURED		104.8	104.0	106.0	107.6	111.3	113.3	110.4	107.2	104.9	105.1	101.2	99.9	101.3	100.5	97.3	
OVERALL CALCULATED		105.1	104.7	106.2	108.3	111.9	112.8	116.9	107.6	104.2	105.6	101.7	100.0	101.1	100.4	94.5	157.8
PMDH		118.1	117.4	117.5	118.0	121.8	123.5	121.7	117.4	114.4	114.8	110.2	108.6	110.2	109.2	106.6	

	FREQ.	(0.0°)	(0.17°)	(0.35°)	(0.52°)	(0.70°)	(0.87°)	(1.05°)	(1.22°)	(1.40°)	(1.57°)	(1.75°)	(1.92°)	(2.09°)	(2.27°)	(2.44°)	PWL
	50	79.9	80.0	80.7	78.7	77.9	76.8	75.4	76.9	75.8	75.8	73.3	73.0	74.7	75.9	75.8	125.8
	63	75.8	74.4	75.2	72.6	75.0	76.2	70.7	70.9	70.9	73.2	71.3	70.2	70.9	73.1	73.2	122.3
RADIAL 100. FT.	80	69.4	69.0	68.6	67.6	66.9	65.5	66.2	65.8	67.2	68.5	68.4	63.7	63.5	64.0	65.4	116.2
(30. M)	100	68.9	65.9	66.8	66.6	66.2	65.1	64.4	64.9	64.8	65.0	63.3	62.9	63.8	66.3	68.0	114.9
VEHICLE ATT	125	68.8	66.4	66.2	65.8	69.0	67.0	65.9	65.0	66.0	64.8	62.6	64.4	67.0	65.1	68.0	115.8
CONFIG 8" IN	160	76.9	71.1	73.2	67.7	78.9	74.2	75.4	67.2	69.6	70.9	73.2	72.1	77.9	72.1	74.2	123.7
LOC PTO	200	67.1	65.0	65.3	64.8	68.0	64.2	63.5	63.2	63.9	62.8	61.7	62.4	65.1	64.4	63.1	113.9
DATE 8/09/74	250	71.1	70.0	71.0	69.0	68.0	67.9	66.6	67.3	66.0	64.2	63.4	63.9	66.0	65.3	65.2	116.4
RUN 669	315	76.0	76.2	79.0	76.7	74.8	77.2	73.8	78.1	74.8	71.9	67.6	73.2	76.1	73.3	71.9	124.9
TAPE A943	400	78.9	80.9	79.2	79.8	85.9	86.0	80.4	77.9	79.6	78.9	72.3	80.0	82.0	76.2	76.1	130.8
BAR 28.9 HG	500	84.8	88.0	84.7	86.4	92.9	93.7	88.7	86.7	86.7	85.8	78.5	87.0	87.7	85.0	84.8	138.2
(97659. N/M2)	630	92.1	95.5	92.6	98.0	103.6	104.6	100.1	98.5	92.8	89.2	85.9	93.3	91.3	98.6	97.4	148.4
TAMP 72. DEG F	800	103.2	99.3	103.1	107.7	107.1	103.0	97.6	101.3	96.9	91.8	90.6	98.0	101.1	97.4	96.0	151.2
(295. DEG K)	1000	96.0	98.6	105.3	96.3	103.3	103.5	100.8	96.5	91.0	98.4	93.9	90.5	93.4	92.7	86.5	148.8
TWET 68. DEG F	1250	96.2	99.0	103.1	7.7	109.0	116.2	107.8	104.2	96.6	100.2	96.8	88.3	95.2	94.6	91.3	154.4
(293. DEG K)	1600	93.0	95.0	108.9	103.8	103.4	109.1	102.0	97.4	95.0	91.2	90.9	87.2	92.0	90.5	92.4	149.3
HACT 16.10 G4/M3	2000	94.2	92.5	96.3	99.2	97.3	94.2	92.0	90.5	85.7	84.1	82.6	84.5	83.4	84.5	82.4	142.1
(.01610 KG/M3)	2500	92.9	94.0	94.3	98.9	101.0	98.2	95.8	92.9	88.8	85.7	83.3	84.9	85.8	81.2	83.0	144.4
NFA 9145. RPM	3150	93.1	95.3	94.2	97.2	100.2	97.4	94.9	93.2	90.0	84.9	81.0	80.5	85.0	79.6	83.2	143.9
(957. RAD/SEC)	4000	97.1	95.3	95.0	95.7	98.0	98.9	94.6	90.0	84.5	81.0	80.6	79.3	79.9	78.5	78.3	143.2
NFK 933. RPM	5000	94.2	96.4	96.4	93.0	96.6	95.5	93.8	88.6	86.0	84.1	81.8	79.3	83.4	79.9	81.2	141.9
(946. RAD/SEC)	6300	96.4	94.6	93.6	94.1	95.3	94.6	93.0	89.3	83.0	82.3	78.0	77.2	78.3	75.6	78.3	141.2
NFD 10628. RPM	8000	92.9	93.2	93.2	92.0	95.3	93.1	90.9	86.0	82.7	78.9	76.7	76.0	77.2	75.2	76.6	140.6
(1113. RAD/SEC)	10000	91.8	91.2	90.0	90.6	92.8	91.2	88.8	84.0	79.0	81.7	75.1	75.7	75.7	77.1	76.0	139.3
NO. OF BLADES 44	12500	87.7	87.8	85.8	87.6	89.6	88.6	85.3	81.6	76.4	72.3	69.8	68.6	68.0	67.9	69.7	137.2
	16000	84.8	83.1	82.0	82.9	86.1	85.1	81.7	79.1	72.8	73.7	66.4	68.0	68.6	68.3	69.1	135.6
	20000	79.0	80.4	77.6	79.1	82.3	80.4	77.7	74.2	72.0	78.8	68.7	72.0	71.9	72.6	73.3	135.4
OVERALL MEASURED		107.2	107.0	110.1	111.9	113.4	114.2	110.6	108.0	102.8	103.8	100.7	101.0	103.9	102.2	102.5	
OVERALL CALCULATED		107.5	107.3	110.3	112.7	114.0	113.9	110.9	108.2	103.0	103.7	100.5	101.0	103.7	103.0	101.6	
PND8		119.2	118.8	119.5	121.9	123.6	123.6	120.8	117.7	113.1	112.8	109.8	109.6	112.2	110.4	109.9	159.0

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 73 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	
FREQ.	50	79.7	80.0	80.8	78.8	78.8	76.0	75.5	76.9	75.8	75.7	73.8	72.7	74.8	75.9	76.0	125.9
	63	76.8	77.1	76.2	73.8	78.1	77.0	72.7	72.2	71.8	73.9	71.4	70.0	72.1	74.3	75.0	123.7
RADIAL 100. FT.	80	69.5	69.6	69.9	68.6	68.9	66.7	66.1	66.9	69.3	69.4	67.9	63.7	64.6	65.8	66.0	117.1
(30. M)	100	68.7	67.3	67.9	66.8	68.8	65.8	65.5	66.1	66.5	65.7	62.3	64.8	64.9	65.4	68.1	115.8
VEHICLE ATT	125	68.8	67.1	67.3	65.1	71.1	67.2	66.0	65.2	67.8	65.2	62.2	64.9	66.1	65.4	69.0	116.4
CONFIG B-M IN	160	75.7	77.0	77.2	67.1	74.8	76.7	74.5	71.0	72.6	71.1	71.0	76.0	78.2	73.1	70.9	124.1
13C PTO	200	65.9	67.3	65.3	64.8	69.1	64.9	63.9	63.9	65.9	64.0	62.5	63.1	65.4	65.2	64.3	114.8
DATE 8/09/74	250	70.2	70.5	69.9	68.8	69.9	67.0	66.6	65.2	66.8	65.8	63.2	64.4	65.4	66.3	66.4	116.5
RUN 670	315	76.8	73.6	75.4	74.3	77.4	73.3	72.9	72.4	77.7	77.8	71.2	73.9	73.0	76.1	75.2	125.0
TAPE A943	400	72.9	75.1	74.2	80.6	82.9	83.1	78.6	84.0	72.7	76.7	78.3	79.1	80.3	81.1	69.1	130.0
BAR 28.9 HG	500	82.9	83.2	82.0	89.8	93.7	93.8	90.4	93.7	83.5	65.9	88.0	88.0	88.9	91.0	78.8	140.0
(97659. N/M2)	630	95.3	94.7	95.4	101.0	108.5	106.2	103.9	101.1	97.2	95.2	92.4	92.4	92.5	97.3	94.3	151.3
TAMB 72. DEG F	800	103.9	99.4	102.0	109.7	110.0	100.3	106.7	104.9	100.7	100.1	95.4	94.0	99.1	95.5	88.0	153.5
(295. DEG K)	1000	96.4	94.8	101.5	103.2	109.3	102.5	99.9	100.3	98.0	94.3	94.4	92.5	92.6	95.4	88.3	149.4
THET 68. DEG F	1250	97.9	100.3	97.3	102.9	107.1	109.1	104.7	103.0	99.7	94.1	89.2	91.8	93.1	91.5	89.2	152.3
(293. DEG K)	1600	91.1	92.3	94.3	100.2	103.4	104.1	99.8	97.0	97.1	95.0	88.2	90.4	92.5	96.3	90.3	148.3
HACT 6.10 GH/M3	2000	93.3	96.6	95.3	97.4	103.2	99.0	94.9	9.5	87.9	69.1	88.6	85.2	89.3	86.7	85.6	144.5
(.01610 KG/M3)	2500	94.1	93.3	93.0	94.9	100.0	99.2	94.8	92.2	87.6	62.0	62.3	82.1	86.0	92.1	81.2	143.3
NFA 9290. RPM	3150	91.4	92.6	93.2	93.1	99.3	99.2	95.1	97.0	89.0	85.0	80.4	80.5	84.3	79.7	81.2	144.1
(973. RAD/SEC)	4000	95.8	94.5	93.3	96.9	97.2	99.0	93.9	91.5	85.5	81.9	81.2	81.1	82.3	79.5	80.2	143.2
NFK 9176. RPM	5000	93.1	95.6	94.4	91.4	96.5	95.5	93.1	88.2	87.1	86.0	81.4	78.2	82.5	77.5	76.5	141.5
(961. RAD/SEC)	6300	95.1	93.5	91.5	93.2	93.3	94.6	93.2	88.5	82.9	62.2	78.6	78.4	79.6	76.7	76.3	140.6
NFD 10628. RPM	8000	91.9	92.5	91.5	90.0	93.3	93.3	89.8	86.2	81.9	79.8	76.3	76.2	77.2	75.4	76.3	139.5
(1113. RAD/SEC)	10000	90.9	90.4	88.9	89.0	90.9	91.9	88.8	84.9	80.5	83.7	75.9	78.0	78.0	78.4	78.0	139.0
NO. OF BLADES 44	12500	87.5	87.0	84.4	85.5	87.5	88.7	86.3	80.4	76.4	73.3	69.6	68.4	69.4	67.6	68.6	136.6
	16000	82.6	83.0	80.9	81.9	86.1	85.8	82.4	76.9	73.0	75.3	66.3	67.9	67.8	69.2	69.4	135.7
	20000	79.0	80.5	76.2	78.0	83.5	81.3	78.0	74.1	73.3	80.1	70.4	75.2	74.1	74.6	74.4	136.2
OVERALL MEASURED		107.9	106.5	108.0	111.8	115.3	112.9	110.5	108.9	105.7	104.1	100.5	100.1	102.1	102.1	99.0	
OVERALL CALCULATED		107.7	106.9	107.7	112.3	115.2	113.5	111.4	109.7	106.2	104.0	100.7	100.2	102.7	102.3	98.5	
PNDN		118.4	118.0	117.6	121.0	123.4	123.3	119.9	119.1	114.8	112.8	109.3	109.2	111.6	110.0	108.3	159.3

REPRODUCIBILITY OF THE  
ORIGINAL DATA IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FRFQ.	(0.0°)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	PWL
	50	79.6	80.0	81.0	78.7	77.8	76.8	75.4	76.9	75.6	75.7	72.9	72.2	74.5	76.2	75.1	125.8
	63	74.1	74.0	75.3	73.1	78.0	78.2	70.8	71.2	71.6	73.0	71.4	70.1	70.0	72.1	72.5	123.1
RADIAL 100. FT.	80	68.6	69.4	69.7	67.7	67.7	67.6	65.5	65.5	67.6	67.4	66.9	63.5	62.6	64.8	65.6	116.1
(30. M)	100	69.8	67.2	68.1	65.7	67.0	67.9	66.5	65.8	67.5	66.7	62.2	64.8	64.7	67.2	68.2	116.1
VEHICLE ATT	125	70.1	68.0	66.9	65.9	71.0	71.2	67.7	66.0	66.6	66.1	62.5	64.9	67.0	66.6	68.1	117.2
CONFIG B-H IN	160	77.6	73.4	75.2	68.0	75.3	72.2	75.6	68.0	71.6	71.7	73.3	74.1	78.1	73.3	74.1	123.6
LOC PTO	200	65.9	65.3	67.4	64.8	68.3	66.0	64.5	63.2	65.9	61.8	61.3	62.1	64.8	65.1	63.4	114.5
DATE 8/09/74	250	71.1	70.3	71.1	69.8	70.3	72.3	65.9	65.9	67.8	63.8	63.2	63.1	65.8	66.3	65.1	117.3
RUN 671	315	77.0	78.2	80.0	78.1	79.0	79.3	69.7	75.0	74.0	73.1	68.2	71.2	75.9	74.1	72.2	125.2
TAPE A943	400	79.9	79.1	76.9	80.0	85.2	86.0	81.7	79.1	79.5	78.8	72.9	81.2	81.8	76.3	76.0	130.9
BAR 28.9 HG	500	85.8	85.8	82.0	87.8	93.0	93.7	89.9	88.1	86.7	85.6	80.3	87.9	87.9	86.3	85.4	138.6
(97659. N/M2)	630	89.3	95.2	93.4	99.1	103.5	106.1	101.8	99.3	96.1	89.1	88.4	95.4	93.5	98.6	97.7	149.5
TAMP 72. DEG F	800	101.1	102.3	103.4	110.8	110.3	109.1	100.6	101.3	100.0	89.9	92.4	98.0	101.9	98.4	96.3	153.6
(295. DEG K)	1000	99.2	95.3	102.2	97.2	104.5	104.2	101.8	98.3	91.9	96.4	93.4	88.3	93.1	92.4	82.6	148.9
THET 68. DEG F	1250	97.9	98.2	102.1	103.9	109.1	110.0	107.6	104.0	99.0	98.0	96.5	85.2	96.1	92.4	91.5	154.0
(293. DEG K)	1500	93.2	91.4	95.3	99.0	103.4	105.4	102.7	98.4	94.8	91.2	89.5	88.1	92.3	88.3	89.9	149.0
HACT 6.10 GM/MS	2000	91.4	91.8	95.5	98.4	98.6	96.3	92.9	89.3	89.2	87.2	85.5	84.2	84.4	83.7	82.5	142.7
(.01610 KG/MS)	2500	92.1	93.3	92.2	95.9	100.4	100.3	96.7	94.0	87.8	87.1	82.2	84.2	85.1	81.2	84.2	144.6
NFA 142. RPM	3150	92.0	94.4	94.3	93.0	100.4	100.6	96.9	96.2	86.9	85.9	81.6	79.3	85.0	80.4	83.5	145.0
(957. RAD/SEC)	4000	97.0	94.9	94.0	94.8	96.1	100.3	95.8	91.3	85.6	82.8	80.9	79.1	80.8	78.4	77.3	143.6
NFK 9030. RPM	5000	93.2	95.5	96.4	92.3	97.8	98.4	94.0	89.5	87.1	85.1	81.7	79.2	82.4	78.8	80.2	143.0
(945. RAD/SEC)	6300	95.2	94.5	93.3	93.2	94.9	95.4	91.9	88.6	84.1	82.3	78.6	77.0	78.3	75.4	76.4	141.0
NFD 10628. RPM	8000	92.2	93.4	92.3	91.1	94.2	94.2	90.7	86.2	82.6	79.8	76.4	75.9	75.1	75.1	75.5	140.4
(1113. RAD/SEC)	10000	90.8	90.9	89.2	89.8	92.0	92.0	88.5	84.9	80.8	82.8	75.3	76.0	75.9	77.2	77.0	139.3
NO. OF BLADES 44	12500	87.4	86.8	85.4	86.3	88.8	89.4	86.3	81.7	76.4	73.3	69.9	68.6	68.3	66.9	71.0	137.5
	15000	83.8	83.9	80.8	82.0	87.1	88.0	82.6	78.0	72.7	73.8	67.1	68.1	68.2	68.0	70.0	136.2
	20000	79.2	80.6	77.4	77.3	84.2	83.2	77.7	74.4	72.1	79.4	69.5	72.2	71.2	72.5	73.3	136.4
OVERALL MEASURED		107.1	106.3	108.0	112.2	114.0	114.3	111.9	107.9	105.0	102.2	100.5	101.2	104.2	102.1	101.6	
OVERALL CALCULATED		107.0	107.2	109.1	112.8	114.9	114.8	111.5	108.6	104.9	102.3	100.5	101.2	104.4	103.0	101.5	
PND8		118.8	118.2	118.9	121.5	123.8	124.4	121.2	119.4	113.9	112.0	109.8	109.5	112.7	110.2	109.6	159.6

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	(0.0°)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	PWL
	50	79.7	79.6	79.8	78.8	77.8	76.9	75.4	77.0	75.7	75.8	73.3	72.9	75.7	76.4	75.1	125.8
	63	76.1	76.0	74.9	73.2	70.0	76.2	72.8	71.3	71.6	73.0	71.2	70.1	71.8	74.3	74.3	123.4
RADIAL 100 FT. (30 M)	80	69.4	69.6	69.9	67.7	67.9	66.9	67.4	65.8	67.7	68.6	67.1	62.9	63.5	64.7	65.6	116.5
VEHICLE ATT	100	68.9	66.9	68.2	66.7	67.1	67.1	68.5	65.2	65.5	67.0	62.3	65.9	64.7	67.0	65.0	116.0
CONFIG B-TM IN	125	68.1	66.9	66.9	66.1	71.4	71.9	70.9	65.2	65.0	65.8	62.5	65.0	67.1	67.1	68.0	117.5
LOC PTO	160	75.9	75.9	78.9	70.8	75.0	70.8	71.8	72.9	72.9	70.7	73.3	76.2	78.7	74.2	72.2	124.2
DATE 8/09/74	200	65.1	65.0	66.0	65.2	68.9	66.0	65.9	63.9	63.8	62.9	62.6	63.2	65.1	65.3	64.0	114.7
RUN 672	250	70.2	70.0	70.0	69.2	70.0	68.9	68.5	66.2	66.6	66.8	64.4	64.2	65.8	66.1	65.4	117.1
TAPE A943	315	77.1	76.1	75.0	76.0	79.5	75.0	73.9	75.4	79.9	79.9	75.5	76.2	74.9	76.2	77.1	127.0
BAR 28.9 HG	400	73.0	76.9	72.9	77.8	81.0	80.3	79.5	82.0	72.7	76.7	78.2	78.1	79.0	79.1	69.2	128.6
(97659 N/M2)	500	80.5	85.7	81.7	87.8	92.0	91.0	90.6	92.0	82.6	85.9	88.0	86.7	88.8	88.1	77.8	138.7
TAMP 72 DEG F	630	91.2	92.3	96.4	100.1	106.3	104.3	103.9	99.5	96.0	94.3	92.6	91.5	92.4	96.4	94.3	149.9
(295 DEG K)	800	103.9	98.1	104.0	108.9	111.1	103.1	105.9	103.0	102.0	99.0	96.5	95.2	99.1	95.5	89.4	153.7
TWET 68 DEG F	1000	98.4	96.5	102.5	104.5	106.5	104.4	101.9	102.4	99.2	95.2	93.5	92.2	90.2	96.7	88.6	150.8
(293 DEG K)	1250	101.2	99.4	102.3	104.9	108.0	110.3	104.6	102.0	98.7	98.2	92.6	93.1	94.2	93.4	92.3	153.2
HACT 6.10 GM/MS	1600	93.2	95.4	100.1	103.3	104.1	103.3	99.8	97.1	94.0	93.3	89.6	88.4	91.3	88.4	88.6	148.5
(.01618 KG/MS)	2000	93.1	94.2	97.3	102.1	98.4	97.2	93.0	91.3	87.9	87.3	86.6	84.3	89.2	86.5	80.3	144.2
NFA 9286 RPM	2500	93.9	93.2	94.2	98.6	99.3	98.2	94.8	92.2	89.8	83.0	82.5	83.1	85.8	82.0	80.1	143.7
(972 RAD/SEC)	3150	92.3	92.2	93.2	94.1	101.4	99.5	93.7	93.4	90.9	85.0	79.6	81.5	80.0	79.3	83.3	144.3
NFK 9172 RPM	4000	97.1	94.9	93.9	96.1	97.1	98.0	93.5	90.0	85.9	82.0	80.2	81.1	82.8	79.1	78.2	142.6
(960 RAD/SEC)	5000	94.2	95.2	95.2	92.3	98.3	96.5	93.7	88.3	88.2	83.3	80.7	78.2	81.3	77.7	79.5	142.4
NFD 10628 RPM	6300	95.4	94.4	92.3	94.4	95.3	96.5	92.9	89.3	82.9	81.1	77.6	78.3	79.0	76.4	76.4	141.7
(1113 RAD/SEC)	8000	92.3	92.3	92.2	92.2	94.2	93.0	89.9	84.9	81.9	79.8	76.4	76.0	77.2	76.3	76.1	139.9
NO. OF BLADES 44	10000	90.8	90.9	89.0	89.8	91.9	92.9	89.4	83.7	81.0	85.6	77.3	79.9	79.8	81.1	79.9	139.9
	12500	87.6	84.8	85.5	87.5	88.8	89.7	86.0	79.3	75.2	72.6	69.8	68.6	70.5	70.7	69.7	137.3
	16000	84.0	83.1	81.1	82.7	87.1	86.1	82.7	76.9	72.8	75.9	68.0	70.1	71.1	73.3	71.3	136.3
	20000	80.2	83.2	78.1	78.9	85.2	83.3	80.8	75.4	76.0	84.1	73.3	78.1	78.2	79.3	78.2	139.0
OVERALL MEASURED		107.8	106.0	109.2	112.0	115.0	114.0	110.9	109.3	105.7	104.2	101.5	99.9	103.1	102.5	99.0	
OVERALL CALCULATED		108.4	106.5	109.8	113.2	115.5	113.9	111.3	108.9	106.3	104.1	101.2	100.3	102.5	102.4	93.9	159.6
PND8		119.2	118.1	119.2	122.1	124.4	123.7	119.8	117.3	114.6	112.5	109.5	108.8	111.3	109.0	107.6	

MODEL SOUND PRESSURE LEVELS (59 DEG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	79.8	80.0	80.0	78.7	78.1	76.8	75.4	77.0	76.5	75.7	73.2	73.0	75.7	76.2	74.9	125.9
63	76.8	76.2	76.0	73.8	77.2	78.9	72.8	72.2	70.9	72.8	70.2	70.0	73.1	74.1	74.1	123.6
RADIAL 100. FT. (30. M)	80	68.5	69.6	69.7	67.4	68.0	67.7	66.4	65.8	67.4	68.7	66.9	62.7	63.7	65.7	116.5
VEHICLE ATT	100	68.7	66.2	68.0	66.0	67.2	67.2	66.5	64.9	65.8	66.0	62.4	64.8	65.1	66.3	115.5
CONFIG 8" IN	125	67.9	66.4	66.0	65.9	71.3	70.9	69.5	65.2	65.0	66.1	62.6	66.1	67.0	67.1	117.0
LOC PTO	160	76.9	75.8	77.9	67.8	72.3	69.2	70.4	74.8	71.7	73.0	71.0	78.3	77.7	76.1	124.2
DATE 8/09/74	200	65.9	64.2	65.3	65.2	69.3	66.0	65.9	63.9	63.9	62.8	63.2	64.0	64.2	65.4	114.8
RUN 673	250	69.8	70.9	71.1	69.8	70.0	69.3	68.3	67.0	66.7	66.1	64.4	64.2	66.1	67.4	117.4
TAPE A943	315	79.9	64.1	85.0	83.8	82.1	81.2	80.6	80.1	79.9	80.9	76.3	77.2	78.0	79.3	130.4
BAR 28.9 HG	400	76.9	78.2	76.7	80.9	76.9	80.7	77.9	77.6	78.9	76.4	78.1	79.7	81.3	68.9	128.6
(97659: N/M2)	500	86.9	88.8	88.0	87.7	92.0	87.0	92.3	89.1	87.7	89.7	88.0	89.0	90.0	92.1	139.5
TMR 72: DEG F	630	92.2	95.3	93.2	100.0	105.3	99.3	103.6	99.3	96.9	95.3	97.4	94.1	84.2	95.8	149.0
(295: DEG K)	800	105.9	100.0	103.4	105.1	110.0	102.0	103.7	96.0	99.8	90.1	93.5	92.9	97.2	95.5	151.6
THET 68: DEG F	1000	100.2	96.2	92.5	105.4	108.9	105.3	102.9	101.1	96.1	94.2	93.3	89.2	94.1	96.7	150.7
(293: DEG K)	1250	96.9	97.3	100.1	103.9	109.0	112.0	107.6	102.0	96.0	96.9	95.6	94.0	96.2	94.5	154.5
HACT 16.10 G/M <sup>3</sup>	1600	94.3	92.4	96.1	103.2	105.2	106.2	101.7	99.2	96.0	92.0	90.3	88.3	90.9	85.2	149.9
(.01610 KG/M <sup>3</sup> )	2000	92.1	92.5	95.4	101.3	100.5	100.5	96.8	95.4	91.0	90.4	88.5	85.2	89.3	89.5	145.8
NFA 9375: RPM	2500	93.1	93.3	94.3	100.0	95.9	100.0	95.7	95.0	89.9	88.0	84.3	83.0	87.0	82.2	144.3
(982: RAD/SEC)	3150	93.3	92.4	94.5	96.1	99.3	101.3	97.0	96.5	87.8	85.9	81.7	83.2	83.1	86.3	145.2
NFK 9260: RPM	4000	96.7	94.9	95.0	96.8	98.0	100.3	96.9	91.9	87.6	83.7	82.4	82.2	81.8	79.3	144.4
(969: RAD/SEC)	5000	94.4	95.2	95.5	92.3	97.4	97.2	93.9	89.4	89.1	86.1	81.7	80.5	83.2	80.4	142.6
NFD 10628: RPM	6300	95.4	94.5	92.9	94.4	94.2	96.5	93.0	89.5	85.1	84.0	79.6	79.6	80.3	78.7	141.7
(1113: RAD/SEC)	8000	93.0	93.1	93.4	91.9	95.1	94.3	92.5	88.2	83.8	81.1	77.6	77.2	78.0	76.4	141.2
NO. OF BLADES 44	10000	90.8	91.8	90.0	90.0	92.8	94.0	90.6	86.7	82.7	80.9	77.4	79.9	79.9	82.1	140.9
OVERALL MEASURED	12500	87.8	87.6	85.5	87.7	89.4	91.5	88.0	82.5	78.2	74.3	69.9	69.6	71.8	69.0	138.3
OVERALL CALC. U. PDR	16000	83.8	83.0	81.2	82.8	87.0	88.1	85.8	78.9	74.8	76.0	68.1	69.9	70.1	70.9	137.8
	20000	80.2	83.1	78.4	80.0	85.1	84.4	83.0	77.4	75.9	64.2	73.3	77.9	78.0	79.2	139.5
	108.0	106.3	108.0	111.8	115.3	114.3	111.5	109.0	105.0	102.8	102.3	99.9	101.8	102.8	96.3	
	109.0	106.6	108.0	112.1	115.3	115.1	112.2	108.2	105.1	102.7	102.3	100.4	102.3	102.8	95.8	
	119.3	118.2	118.7	122.0	123.9	125.1	121.8	118.9	114.6	112.4	110.6	109.5	111.2	110.5	106.8	159.7

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MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM. DAY)  
PROC. DATE - MONTH 8 DAY 15 HR. 10.2  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )
50	80.6	81.0	81.1	79.9	78.0	78.1	76.4	77.9	76.6	76.6	75.2	73.8	75.9	76.0	74.7	126.6
63	75.8	77.4	77.1	77.0	77.0	78.2	72.8	70.9	71.6	74.0	73.1	70.9	74.7	77.3	76.9	124.7
80	70.7	70.6	70.7	68.4	68.9	68.7	67.2	66.6	67.4	68.7	68.0	64.7	65.8	67.0	66.9	117.3
100	69.7	67.9	70.2	67.9	67.2	69.1	66.5	66.9	65.7	66.9	66.1	68.0	66.0	68.4	67.1	117.0
125	69.8	68.3	68.1	66.1	66.3	72.4	70.5	69.3	65.7	68.2	65.5	69.2	68.0	69.2	70.0	118.5
160	81.7	76.9	70.2	71.8	75.1	79.1	78.5	86.1	77.5	80.8	77.3	78.1	75.0	74.3	75.8	129.1
200	70.1	67.1	66.0	66.9	69.2	69.0	68.8	73.9	67.9	70.0	67.2	68.0	68.0	68.1	67.2	119.0
250	69.8	69.3	70.4	71.1	70.0	69.9	68.8	67.2	66.0	66.9	68.2	67.2	67.9	67.4	67.2	118.1
315	87.1	83.8	91.1	92.9	90.1	89.2	85.5	85.9	82.8	88.0	90.5	89.2	87.0	81.1	84.3	138.1
400	83.8	82.9	86.8	90.9	88.1	86.6	82.7	83.0	82.6	78.1	80.3	78.0	77.9	73.0	75.9	133.6
500	103.0	102.1	104.8	108.7	105.8	105.1	101.4	101.0	100.5	92.7	96.3	88.9	90.3	87.2	90.8	151.3
630	89.1	91.3	97.5	94.1	94.5	101.4	99.1	88.3	89.2	96.3	88.3	93.2	90.1	87.4	87.6	145.0
800	100.9	89.9	98.2	102.9	94.5	100.3	90.8	93.0	90.7	96.2	88.1	92.2	82.2	84.0	84.0	145.5
1000	90.2	85.4	87.2	93.2	91.4	93.3	90.0	86.4	85.9	84.1	84.5	85.5	84.2	86.4	80.3	138.4
1250	94.0	93.2	94.0	99.0	99.3	101.1	96.9	94.0	94.0	89.2	87.3	87.3	91.2	91.5	83.0	145.4
1600	90.2	89.6	94.4	96.3	98.1	101.2	93.9	92.3	89.0	88.3	84.6	80.5	84.3	82.6	81.2	143.9
2000	93.2	92.2	95.5	97.2	99.4	99.5	98.0	96.4	93.2	90.1	87.7	84.4	86.2	84.4	83.2	145.1
2500	92.9	93.1	94.2	95.2	102.3	100.1	97.6	93.9	92.9	88.8	87.4	83.2	87.1	85.2	83.2	145.5
3150	91.5	91.4	91.3	91.1	91.5	91.4	89.9	88.3	83.9	83.3	78.2	79.5	81.3	76.7	78.4	138.7
4000	94.8	94.0	93.3	93.4	93.1	93.0	94.5	90.8	86.8	83.1	80.8	81.5	80.1	79.4	77.0	142.5
5000	92.4	93.3	93.3	90.4	95.2	97.4	94.7	89.5	88.2	84.3	81.5	79.6	82.3	78.5	79.3	141.9
6300	93.2	92.5	91.4	92.2	92.3	94.4	92.9	86.5	83.0	82.2	78.6	77.2	77.3	76.8	76.4	140.2
8000	91.2	92.2	91.3	90.0	93.4	93.3	90.6	86.9	83.1	79.2	77.6	77.3	78.0	77.3	76.3	139.8
10000	89.8	91.2	88.0	88.0	90.0	91.8	88.6	85.7	81.7	88.0	79.2	82.1	82.0	81.1	82.1	139.6
12500	85.7	85.4	84.4	84.5	86.7	88.7	85.1	80.6	76.4	74.2	69.8	69.7	71.4	68.7	68.7	136.0
16000	81.9	81.9	80.1	80.7	83.1	84.9	82.6	78.0	71.6	71.7	67.3	68.0	69.0	67.0	67.1	134.5
20000	78.0	82.4	77.5	78.0	80.5	82.2	81.0	76.4	73.9	84.0	73.4	78.3	77.3	78.6	77.1	138.1
OVERALL MEASURED	107.2	105.3	107.0	110.9	110.0	111.0	107.7	109.2	103.6	101.8	101.5	98.0	99.1	97.0	96.0	156.4
OVERALL CALC. (L)	107.3	109.7	108.2	111.2	110.1	111.1	107.4	105.1	103.7	102.2	101.2	98.0	99.1	94.9	95.9	156.4
OVERALL CALC. (R)	117.9	117.0	118.1	120.3	122.2	122.2	119.1	116.2	114.2	111.0	110.1	107.5	109.6	117.6	106.4	

REPRODUCIBILITY OF THE ORIGINAL PAPER IS POOR



	FREQ.	(0.0°)	(0.17)	(0.35)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	PWL
	50	81.1	82.9	82.8	79.8	79.2	79.1	80.0	78.9	77.3	76.3	76.0	76.0	77.4	74.8	127.8
	63	81.2	81.2	82.8	80.0	79.2	75.9	77.0	75.0	77.4	76.3	75.1	72.1	73.2	75.2	126.5
RADIAL 100. FT.	80	71.8	73.7	73.6	70.4	70.1	69.4	68.9	70.6	70.0	69.6	68.7	66.7	68.9	68.8	119.1
(30. M)	100	70.1	69.9	71.0	66.8	68.4	66.9	68.3	67.3	66.3	67.2	67.1	67.3	68.0	67.9	117.1
VEHICLE ATT	125	69.3	68.2	69.0	67.0	69.4	66.3	70.5	67.3	66.5	69.5	69.3	68.3	69.3	71.3	118.3
CONFIG 8-M IN	160	77.1	81.2	77.6	72.2	81.4	70.7	81.1	72.9	72.1	67.2	72.9	71.2	74.2	75.7	125.7
LOC PTD	200	79.2	84.3	81.0	75.0	83.5	73.3	84.3	75.3	75.1	67.2	74.9	73.4	76.2	78.0	128.3
DATE 8/9/74	250	67.4	68.2	67.0	68.2	69.2	67.0	67.2	66.1	65.2	65.1	66.3	68.1	68.1	67.9	116.8
RUN 675	315	73.4	81.3	75.7	80.0	89.4	84.0	84.0	80.1	78.4	72.0	76.8	83.1	79.4	69.8	132.8
TAPE A943	400	76.0	85.0	78.6	90.8	92.9	87.9	86.9	83.8	82.1	74.7	79.9	86.1	82.8	71.6	136.2
BAR 28.9 HG	500	88.2	85.8	80.4	94.9	94.1	98.6	90.3	79.1	70.2	85.2	77.8	80.1	82.2	81.0	138.2
(97659, N/M2)	630	80.4	79.5	79.2	86.1	85.6	81.1	81.4	74.3	71.5	78.6	72.5	74.3	75.4	75.1	130.1
TAMB 72. DEG F	800	85.4	84.3	87.9	92.2	96.4	92.9	90.2	85.1	82.5	84.4	85.2	78.4	76.4	80.3	139.3
(295, DEG K)	1000	89.4	88.4	91.1	96.1	97.3	93.1	91.7	87.2	85.7	85.6	86.3	82.6	81.5	82.5	141.3
TWET 68. DEG F	1250	88.5	88.3	91.2	94.0	96.3	91.2	86.4	86.1	84.2	85.5	85.3	86.2	84.1	86.1	139.7
(293, DEG K)	1500	89.8	91.3	94.3	99.3	99.0	93.3	92.5	90.6	83.5	82.9	82.5	81.6	86.6	81.8	142.8
MACT 16.10 GM/H3	2000	91.5	90.6	92.0	96.3	97.5	93.3	89.4	89.5	81.4	81.6	81.2	81.3	80.2	80.3	141.1
(.01610 KG/H3)	2500	90.6	91.3	92.0	97.3	97.4	94.1	90.2	88.1	84.3	81.5	82.3	82.4	82.2	80.5	141.5
NFA10791. RPM	3150	91.3	91.7	92.3	94.3	94.7	92.5	91.9	89.7	83.5	82.6	81.4	82.7	80.6	81.5	140.3
(1126, RAD/SEC)	4000	92.5	93.2	92.9	95.0	97.7	93.1	88.2	86.1	78.6	79.4	80.3	81.4	80.1	78.6	141.1
NFK10619. RPM	5000	92.6	93.8	94.5	95.3	97.7	93.3	88.8	87.7	82.6	81.8	82.6	83.6	80.5	80.9	141.6
(1112, RAD/SEC)	6300	93.6	91.6	90.3	92.3	95.0	91.6	86.5	82.8	80.7	78.7	78.5	77.8	77.5	76.9	139.3
NFD10628. RPM	8000	90.6	90.5	90.3	92.1	91.7	89.3	84.2	83.5	78.4	80.4	78.5	78.4	77.3	77.6	138.2
(1113, RAD/SEC)	10000	88.1	91.0	87.9	89.7	91.3	88.2	84.0	83.3	90.1	81.4	84.2	83.4	85.3	84.3	139.7
No. OF BLADES 44	12500	84.7	85.7	83.3	85.7	86.8	83.6	79.5	76.9	80.1	73.7	75.8	75.0	75.9	75.1	135.0
	16000	80.4	81.2	79.0	81.6	83.2	80.1	75.4	72.1	70.5	67.6	69.0	69.0	67.2	68.1	132.7
	20000	76.5	81.4	76.1	78.4	79.5	77.1	74.5	73.6	81.7	72.5	76.5	75.7	77.4	76.6	139.8
OVERALL MEASURED		102.3	102.4	103.0	105.9	108.5	104.2	101.1	98.4	96.4	96.2	95.0	95.4	95.3	95.3	
OVERALL CALCULATED		102.1	102.5	102.9	106.6	107.9	104.0	101.2	98.6	95.8	94.5	94.6	94.7	94.3	93.5	
PNDR		115.1	115.8	115.9	119.2	120.6	116.4	114.4	111.8	107.2	106.4	106.2	106.8	106.0	105.5	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANIS)

	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)														PWL		
	ANGLES FROM INLET IN DEGREES (AND RADIANIS)																
FREQ.	0° (0.0)	10° (0.17)	20° (0.35)	40° (0.70)	50° (0.87)	60° (1.05)	70° (1.22)	80° (1.40)	90° (1.57)	100° (1.75)	110° (1.92)	120° (2.09)	130° (2.27)	140° (2.44)			
50	80.0	81.2	80.6	77.9	77.2	76.8	78.0	77.9	76.2	75.1	74.8	75.1	75.9	74.9			126.2
63	76.3	78.2	78.7	76.7	77.5	73.1	71.8	73.0	73.2	73.3	71.1	72.9	77.4	76.2			124.2
80	69.6	71.1	70.6	68.2	67.8	66.5	66.4	70.7	67.9	67.9	63.8	64.8	66.8	67.8			117.2
RADIAL 100. FT. (30. M)	100	70.3	69.1	70.7	65.8	68.2	65.8	67.0	68.1	65.3	68.2	67.9	65.2	69.1			117.0
VEHICLE ATT	125	71.2	69.3	69.9	64.8	69.4	66.1	69.3	68.4	66.1	68.5	70.1	66.1	70.6			118.1
CONFIG 8" M IN	160	81.0	76.4	71.9	74.9	81.4	77.9	86.9	77.8	79.2	76.3	78.0	74.3	75.2			129.4
LOC PTO	200	70.4	67.4	65.6	68.0	69.2	67.9	73.2	68.2	68.1	67.1	68.1	67.3	68.0			118.3
DATE 8/09/74	250	71.1	69.2	71.0	69.0	69.2	67.9	68.0	66.3	66.1	68.2	67.0	67.3	67.4			117.5
RUN 676	315	86.0	82.5	91.0	88.1	88.4	85.1	87.2	84.2	87.2	90.5	88.2	85.4	81.2			136.9
TAPE A943	400	82.7	81.9	85.6	86.9	86.0	82.5	82.8	81.8	76.8	80.2	77.8	75.1	73.7			131.6
BAR 28.9 HG	500	101.8	100.1	103.5	105.8	105.1	101.0	101.1	99.8	92.2	95.0	89.9	88.2	88.0			149.8
(97659. N/M2)	630	91.6	94.4	98.1	95.3	101.5	99.3	87.3	92.5	96.7	88.7	93.2	90.6	87.6			145.3
TAMB 71. DEG F	800	100.4	92.4	97.0	97.0	99.6	96.0	93.4	89.1	95.5	97.6	84.0	89.5	85.1			144.6
(295. DEG K)	1000	89.7	86.8	89.5	89.1	92.8	97.1	88.5	85.8	84.4	85.5	85.5	81.5	85.6			137.6
TWET 68. DEG F	1250	96.5	94.5	97.8	98.1	99.5	97.1	94.6	94.5	9.5	87.6	89.2	89.1	9.1			144.5
(293. DEG K)	1600	92.5	93.0	96.4	98.4	101.0	95.5	93.8	91.4	88.8	85.9	81.6	85.8	82.7			144.0
HACT 16.40 GH/M3	2000	94.2	94.8	98.2	102.5	100.5	97.4	95.4	9.3	87.4	87.6	84.4	86.6	8.2			145.6
(.01640 KG/M3)	2500	94.4	94.4	96.1	100.0	100.4	97.3	93.5	89.2	86.3	85.5	82.1	84.4	82.2			144.4
NFA 9983. RPM	3150	92.7	91.6	93.2	94.3	94.6	92.3	91.8	86.6	83.7	78.6	79.5	79.9	77.4			139.9
(1045. RAD/SEC)	4000	95.1	95.2	95.1	96.0	97.6	98.2	92.5	88.2	83.5	81.5	82.3	81.6	80.1			142.6
NFK 9869. RPM	5000	92.7	94.7	95.3	95.6	95.7	95.4	90.5	88.5	82.9	81.8	80.7	81.6	79.8			141.8
(1033. RAD/SEC)	6300	94.8	93.8	92.4	93.6	95.8	93.6	88.8	83.5	80.9	78.7	78.5	78.0	76.5			140.7
NFD 10628. RPM	8000	92.3	93.1	92.1	93.2	92.7	91.2	87.4	83.6	77.7	77.6	78.2	77.4	76.5			139.5
(1113. RAD/SEC)	10000	89.3	92.2	89.9	90.4	91.4	98.1	86.1	82.3	87.3	79.2	82.0	82.2	83.2			139.6
NO. OF BLADES 44	12500	85.5	86.5	84.6	86.7	86.6	85.6	84.8	76.8	72.9	70.7	70.7	69.7	68.8			135.3
	16000	82.2	82.8	80.9	82.9	83.1	83.0	78.2	72.2	70.3	68.5	68.1	68.5	66.9			133.9
	20000	78.3	82.3	78.5	80.2	80.4	79.6	76.2	74.3	83.3	73.6	78.3	76.6	78.5			137.3
OVERALL MEASURED	107.1	105.4	106.8	110.2	111.4	107.9	105.5	102.9	101.5	101.3	98.0	97.4	96.3	97.1			155.7
OVERALL CALCULATED	107.4	106.1	108.5	110.3	110.9	107.9	105.4	103.4	101.9	101.4	98.3	97.8	96.4	97.0			
PNDH	118.5	118.2	119.3	121.6	122.2	119.4	116.4	113.3	110.8	110.3	107.7	108.2	106.5	104.7			

	FREQ.	0.0°	10°	20°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	PHL
		(0.0)	(0.17)	(0.35)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	
	50	82.9	82.3	82.7	79.2	79.2	77.9	79.9	78.9	77.4	77.2	76.0	76.2	76.8	76.0	127.7
	63	81.9	81.1	82.6	81.0	79.3	77.1	77.1	74.2	76.3	77.4	74.8	73.1	72.8	74.9	126.6
RADIAL 100. FT.	80	77.6	73.6	73.5	71.4	71.1	69.5	69.7	70.7	70.6	71.0	67.5	66.9	69.5	69.5	119.6
( 30. M)	100	75.3	69.3	71.6	67.0	68.4	66.9	68.1	66.0	66.1	68.1	68.0	67.1	69.3	68.2	117.3
VEHICLE ATT	125	72.5	68.3	69.8	67.0	69.3	67.2	70.2	66.4	65.3	68.5	69.6	68.3	70.3	71.3	118.3
CONFIG 9" M IN	160	78.1	82.1	79.8	71.0	81.1	72.0	81.1	74.3	74.1	67.1	72.9	71.1	74.1	77.1	126.0
LOC PTD	200	79.9	84.4	82.0	73.9	84.2	75.0	84.2	77.2	77.2	66.4	74.9	72.1	74.9	79.1	128.8
DATE 8/09/74	250	68.2	68.3	67.1	68.6	69.4	67.0	67.3	66.4	65.3	65.5	65.3	68.1	67.9	67.4	116.8
RUN 677	315	76.2	82.3	75.9	88.7	89.6	83.7	83.4	78.3	79.2	74.3	78.1	83.4	80.2	71.0	132.9
TAPE A943	400	78.9	85.2	79.6	91.8	93.0	86.9	85.9	80.8	81.9	77.0	81.0	87.0	82.6	72.0	136.2
BAR 28.9 HG	500	85.1	85.9	86.5	92.8	91.4	89.8	89.0	79.1	74.1	86.0	77.8	83.2	80.8	81.0	136.8
(97659. N/M2)	630	77.5	79.5	80.0	83.9	83.4	81.3	80.4	74.3	71.3	78.5	73.4	75.3	74.2	74.3	128.8
TANK 71. DEG F	800	84.3	84.3	85.0	94.1	97.5	94.0	89.3	81.1	82.3	84.3	86.1	82.3	80.0	80.5	140.0
(295. DEG K)	1000	87.5	90.3	89.4	97.4	98.9	97.2	92.4	84.5	84.7	84.7	89.5	85.7	82.2	83.4	142.6
TJET 68. DEG F	1250	88.5	90.4	92.9	97.2	99.4	93.9	89.2	84.4	84.3	83.2	83.2	85.3	84.1	84.4	142.8
(293. DEG K)	1500	92.5	93.3	95.1	99.2	100.6	94.6	90.5	88.7	84.8	84.9	81.5	84.5	86.7	87.7	143.5
HACT 16.40 GH/M3	2000	91.3	92.1	93.2	98.0	96.7	91.3	89.4	88.2	81.6	81.3	80.3	81.0	82.1	81.0	141.0
(.01640 KG/M3)	2500	90.5	91.3	92.1	98.2	98.3	93.4	89.4	88.4	83.5	82.5	82.1	82.3	80.1	80.5	141.9
NFA10754. RPM	3150	90.7	91.6	92.4	95.1	96.6	92.2	91.5	87.4	84.8	82.5	82.7	80.6	80.4	80.8	140.7
(1126. RAD/SEC)	4000	93.2	94.0	92.8	95.9	97.6	93.3	89.5	86.3	80.2	80.5	81.4	80.6	79.4	78.2	141.4
NFK10632. RPM	5000	92.7	94.6	94.4	96.5	94.9	92.3	88.5	87.7	82.8	81.8	82.7	83.6	80.3	79.8	140.9
(1113. RAD/SEC)	6300	93.6	91.6	91.5	92.5	93.7	91.3	87.5	82.6	80.6	78.7	78.8	78.0	76.8	76.7	139.0
NFD10626. RPM	8000	90.5	91.1	91.0	93.1	91.7	89.1	85.1	83.6	78.3	79.4	79.5	79.7	78.2	77.3	138.6
(1113. RAD/SEC)	10000	89.0	90.9	87.8	90.0	90.2	88.1	85.2	83.0	90.0	81.1	84.0	83.4	85.0	84.2	139.5
NO. OF BLADES 44	12500	84.8	85.4	83.2	86.4	86.0	83.3	79.6	76.7	80.7	73.7	75.5	75.8	75.6	74.3	134.9
	16000	81.2	81.2	78.9	82.8	82.3	80.0	75.3	71.9	69.4	68.1	69.0	69.5	67.2	67.1	132.6
	20000	77.2	81.5	76.4	79.2	79.4	77.3	74.5	73.3	81.6	72.3	76.6	75.7	77.5	76.4	135.9
OVERALL MEASURED		102.4	103.4	102.8	106.8	108.3	104.2	101.3	98.8	97.2	95.5	96.3	96.2	95.3	94.0	
OVERALL CALCULATED		102.2	103.2	103.3	107.5	108.4	104.4	101.1	97.4	95.9	94.6	95.3	95.4	94.3	93.7	
PND8		115.5	116.5	116.2	120.0	120.6	116.5	114.2	110.4	107.9	106.6	106.8	107.0	106.1	105.3	152.5

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	0.	10.	20.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.			PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	( )	( )	( )
50	79.2	80.0	79.8	77.6	77.1	76.0	77.0	77.0	75.1	74.3	73.9	73.9	75.0	74.1			125.4
63	76.0	75.3	75.7	77.8	78.1	70.8	70.9	74.3	73.1	72.1	70.9	73.1	73.1	75.0			123.5
RADIAL 100. FT. (30. M)	80	70.7	69.9	69.6	68.7	68.0	66.7	66.0	70.6	66.8	67.9	64.6	62.9	65.5			116.8
VEHICLE ATY	100	69.9	69.3	69.6	67.0	69.4	67.0	65.2	72.3	67.2	65.3	65.9	64.1	67.2			117.4
CONFIG 8" M IN	125	69.2	68.2	68.1	72.1	72.4	69.9	65.0	73.5	67.2	65.3	65.4	65.6	67.4			118.8
LOC PTO	160	75.0	77.0	76.8	71.8	70.2	69.8	78.1	74.4	71.0	68.5	76.0	76.2	75.1			123.8
DATE 8/09/74	200	65.1	64.3	64.7	70.9	68.5	65.9	65.3	73.0	62.1	62.5	63.1	64.4	65.2			116.7
RUN 678	250	69.4	69.4	69.8	69.9	69.5	67.2	66.4	73.0	65.2	64.2	64.0	64.2	65.2			117.5
TAPE A943	315	79.9	80.2	77.9	81.1	76.1	70.8	76.0	79.1	78.1	74.2	73.9	70.3	72.8			126.1
BAR 28.9 HG	400	72.7	71.9	75.6	81.5	78.9	80.8	78.9	78.7	78.0	77.8	77.7	77.3	79.6			128.3
(97659. N/M2)	500	82.8	78.7	85.7	92.8	90.1	92.8	89.9	89.9	88.2	89.1	88.0	88.0	90.7			139.5
TAMB 7.1 DEG F	630	93.5	95.6	91.2	104.3	103.6	104.4	101.2	98.6	95.6	96.7	91.2	90.7	94.4			149.8
(295. DEG K)	800	104.1	101.4	105.0	110.0	106.2	104.7	108.3	97.1	91.2	94.3	95.0	93.2	95.0			151.9
TWET 68.1 DEG F	1000	95.6	95.4	99.3	106.1	103.5	102.1	99.2	91.4	90.7	93.5	93.5	93.6	92.2			149.0
(293. DEG K)	1250	98.1	95.3	100.8	104.2	108.4	103.1	101.1	97.2	91.4	92.0	97.4	92.1	89.4			151.3
MACT 16.40 GH/M3	1500	93.6	94.8	109.4	101.5	103.7	109.4	109.8	93.7	90.6	90.7	88.5	88.7	89.6			147.5
(.01640 G/M3)	2000	93.5	95.6	95.2	108.2	100.5	95.3	94.5	90.6	89.6	85.3	82.3	88.3	89.5			144.5
NFA 9394. RPM	2500	94.4	95.5	94.8	99.0	97.6	96.2	93.3	89.3	86.2	84.2	82.4	83.2	82.3			143.1
(984. RAD/SEC)	3150	93.7	94.6	94.4	95.4	97.8	93.1	91.5	89.5	87.8	84.7	80.4	81.5	80.4			141.8
NFK 9.87. RPM	4000	97.2	96.4	95.8	98.2	100.6	97.2	92.3	89.2	84.4	82.4	82.3	80.2	80.1			144.3
(972. RAD/SEC)	5000	94.7	97.8	96.4	97.3	96.6	94.2	89.6	87.6	84.8	81.7	79.4	81.8	79.4			142.3
NFD 10628. RPM	6300	96.6	95.6	94.3	95.3	96.9	94.5	90.5	84.6	81.8	80.8	78.6	78.7	76.8			141.0
(1113. RAD/SEC)	8000	93.4	94.2	93.0	95.2	94.3	92.2	87.4	83.4	79.5	77.6	77.0	76.6	76.4			140.7
NO. OF BLADES 44	10000	91.0	92.1	91.0	91.9	93.1	90.0	86.0	82.0	85.2	77.4	79.2	78.1	79.8			139.9
	12500	88.0	88.7	86.2	88.6	89.8	86.6	81.7	77.5	72.9	70.8	69.7	69.7	67.6			137.1
	16000	84.2	84.3	81.6	85.8	86.2	84.9	78.2	80.2	72.4	69.2	68.0	67.1	68.0			136.4
	20000	79.2	81.5	78.2	84.3	82.8	81.1	75.2	77.5	80.5	72.4	74.4	74.5	75.2			137.4
OVERALL MEASURED	108.1	107.1	108.8	103.5	113.2	110.9	108.0	105.1	102.5	102.3	100.2	101.5	101.2	97.0			
OVERALL CALCULATED	108.1	107.6	109.4	114.0	113.6	111.1	108.0	105.4	102.5	101.6	100.5	101.5	101.0	97.3			158.3
PWDR	119.4	119.4	119.5	123.8	123.6	120.6	117.9	115.2	112.3	110.2	109.3	110.6	109.9	107.8			

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FRQ. (0.0)	10 (0.17)	20 (0.35)	40 (0.70)	50 (0.87)	60 (1.05)	70 (1.22)	80 (1.40)	90 (1.57)	100 (1.75)	110 (1.92)	120 (2.09)	130 (2.27)	140 (2.44)	PWL
	50	78.8	84.8	80.8	79.0	77.2	75.8	76.9	77.0	75.2	74.3	74.0	76.0	78.0	76.9
	63	75.9	78.2	75.7	79.1	78.1	72.0	72.0	74.1	74.1	71.4	71.1	74.0	76.2	77.9
RADIAL 100. FT.	80	69.6	69.6	69.3	68.5	67.8	66.7	65.8	67.5	68.1	68.0	63.6	62.9	64.9	65.8
(30. H)	100	68.0	66.1	66.7	69.0	67.3	65.8	64.2	65.3	65.1	65.3	65.2	65.2	66.9	67.1
VEHICLE ATT	125	68.2	67.2	66.2	70.9	71.4	69.9	65.1	66.3	65.5	64.6	65.5	66.5	66.4	67.2
CONFIG R-M IN	160	76.9	78.0	76.0	76.9	68.4	68.7	75.2	71.0	72.3	70.4	77.0	76.4	73.7	73.9
LOC PTO	200	64.5	65.1	64.0	73.2	66.3	65.2	66.0	65.1	62.1	62.1	64.1	64.2	65.0	63.2
DATE 8/09/74	250	68.2	69.0	70.9	74.2	70.5	67.2	67.0	68.4	67.2	65.2	65.0	65.1	66.2	65.2
RUN 679	315	74.1	75.0	80.9	82.9	80.2	71.2	76.3	81.2	81.3	77.3	76.8	74.3	74.2	75.2
TAPE A943	400	72.2	73.7	73.4	83.6	83.3	79.9	83.7	75.7	76.0	75.9	76.9	79.0	77.8	69.6
BAR 28.9 HG	500	79.0	80.8	80.4	93.6	93.0	90.7	93.0	85.0	86.1	85.1	85.7	87.0	87.1	80.7
(97659. N/M2)	630	91.5	98.4	94.2	107.2	106.8	104.3	101.4	98.3	95.6	93.3	89.4	86.4	95.3	96.6
TAMB 71. DEG F	800	102.5	99.3	105.0	111.2	106.4	108.2	108.1	101.4	99.1	95.5	97.9	100.1	95.4	91.3
(295. DEG K)	1000	96.6	96.3	100.0	105.4	104.6	103.4	103.3	99.6	95.4	95.6	90.2	88.4	93.5	86.5
TWET 68. DEG F	125	100.5	98.1	101.1	105.9	109.4	103.3	105.1	101.2	94.3	94.3	91.3	96.3	88.3	91.2
(293. DEG K)	1600	94.9	95.4	98.2	102.2	102.7	99.4	97.8	95.7	94.8	92.8	88.7	91.7	86.7	89.5
HACT 6.4 GW/M3	2000	93.9	96.4	98.1	99.1	99.6	95.3	94.3	88.2	87.5	86.6	83.2	88.5	86.4	83.3
(.01640 KG/M3)	2500	95.3	95.2	94.8	97.1	97.2	96.2	92.4	89.3	86.4	82.1	83.1	82.6	82.1	81.4
NFA 9290 RPM	3150	93.9	94.3	94.3	96.4	99.7	95.4	94.4	91.5	88.5	81.6	80.4	83.4	81.4	83.7
(973. RAD/SEC)	4000	97.4	96.4	95.9	97.2	98.4	96.2	91.3	86.3	82.1	81.4	82.0	81.3	80.1	79.2
NFK 9184 RPM	5000	93.8	97.6	96.2	97.3	96.9	94.5	88.8	87.5	83.7	81.4	79.7	81.1	79.6	79.7
(962. RAD/SEC)	6300	96.2	95.3	94.5	95.5	95.6	94.6	89.7	84.6	81.6	78.8	79.6	78.8	76.5	77.9
NFD 10620 RPM	8000	93.4	94.4	94.0	94.1	93.4	92.3	86.4	83.2	79.5	77.4	77.1	76.6	76.3	76.4
(1113. RAD/SEC)	10000	91.1	91.9	90.2	91.0	92.5	90.0	84.8	81.2	84.3	76.2	78.1	77.4	79.2	78.1
NO. OF BLADES 44	12500	88.8	88.7	86.3	88.5	89.0	87.6	81.8	76.9	72.9	70.7	69.7	69.9	66.9	67.5
	16000	84.2	84.2	82.7	85.9	85.4	83.8	78.1	73.3	73.3	69.4	68.9	68.0	68.0	67.3
	20000	79.2	81.2	78.0	84.0	81.5	81.2	75.2	73.6	80.3	71.3	74.2	73.2	74.5	73.5
OVERALL MEASURED		107.2	107.1	109.0	104.8	114.3	112.3	111.1	106.2	103.5	102.3	101.8	102.2	100.1	100.0
OVERALL CALCULATED		106.0	107.3	109.6	115.0	114.4	112.3	111.8	107.1	103.6	101.9	100.7	102.9	100.8	99.9
PNDH		119.5	119.3	119.6	123.6	123.7	121.0	119.8	115.5	112.8	110.7	109.7	111.4	108.9	108.9

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	(0.0°)	(0.17°)	(0.35°)	(0.70°)	(0.87°)	(1.05°)	(1.22°)	(1.40°)	(1.57°)	(1.75°)	(1.92°)	(2.09°)	(2.27°)	(2.44°)	PWL
	50	79.4	80.2	80.7	77.9	77.1	75.8	77.2	76.9	75.0	74.0	73.1	76.2	77.9	76.2	126.0
	63	74.5	74.3	74.7	77.7	78.1	71.0	70.9	71.4	73.2	71.4	70.9	73.0	74.0	73.9	123.2
RADIAL 100. FT.	80	67.8	68.9	68.6	68.7	67.1	68.4	65.8	67.6	66.8	66.8	62.8	61.9	65.5	64.9	115.8
(30. M)	100	67.0	64.9	66.8	68.7	67.1	65.8	64.2	65.2	65.1	65.3	65.1	65.2	69.0	66.1	115.6
VEHICLE ATT	125	68.3	67.2	65.2	71.2	71.4	69.4	64.2	65.3	64.5	65.5	66.3	67.4	71.2	67.4	117.5
CONFIG RPM IN	160	80.0	76.2	73.0	77.7	72.4	73.1	71.0	69.9	72.3	72.2	75.8	78.1	73.8	75.0	123.9
LOC PTO	200	64.5	64.3	63.8	70.0	66.2	65.2	64.0	64.1	61.4	62.1	63.0	63.7	71.0	63.2	115.2
DATE 8/09/74	250	69.5	71.4	71.8	71.9	70.1	68.2	66.0	67.3	65.5	63.5	63.3	65.3	73.9	64.1	118.2
RUN 680	315	78.0	82.1	82.9	81.9	79.1	72.7	71.9	77.1	78.1	71.4	72.0	73.3	78.0	72.0	126.8
TAPE A943	400	78.0	75.9	71.4	83.5	85.2	80.5	79.9	78.9	77.8	72.3	79.8	82.1	79.7	74.9	130.1
BAR 28.9 HG	500	84.0	83.8	77.6	91.6	93.9	89.8	89.1	87.1	84.8	79.1	86.9	89.1	86.0	83.8	138.2
(97659. N/M2)	630	90.7	96.3	94.1	103.2	106.4	103.3	101.2	95.2	92.6	85.3	91.2	88.6	95.4	96.3	149.8
TAMB 7. DEG F	800	97.3	99.1	105.8	109.9	106.3	103.2	104.2	99.4	95.1	94.3	97.3	99.2	96.4	97.2	152.6
(295. DEG K)	1000	95.3	99.3	100.2	103.1	103.5	102.4	107.3	92.2	97.3	91.4	89.5	90.3	91.5	84.5	148.2
TWET 68. DEG F	1250	97.3	99.3	101.2	105.9	108.4	108.3	102.3	95.2	98.5	94.4	91.4	91.3	92.3	91.5	152.5
(293. DEG K)	1600	93.5	94.6	96.3	101.6	103.8	102.4	98.5	94.5	94.8	89.7	94.0	88.5	87.5	88.5	148.1
HACT 16.40 GH/M3	2000	93.3	94.2	94.9	98.1	99.5	95.4	92.4	85.4	85.5	83.4	84.2	88.5	84.4	83.3	143.1
(.01640 KG/M3)	2500	95.4	96.2	95.1	98.2	100.7	98.0	96.3	89.4	86.6	86.3	85.1	85.2	83.2	85.4	144.7
NFA 9.64 RPM	3150	93.7	93.7	94.4	98.5	101.6	98.3	95.3	92.5	89.7	86.7	83.5	87.7	8.7	86.7	145.3
(959. RAD/SEC)	4000	96.3	96.2	95.1	96.1	100.4	94.8	89.4	85.3	81.1	61.4	81.5	79.3	78.4	77.5	142.6
NFK 9.60 RPM	5000	93.8	96.5	96.5	96.5	95.5	94.4	88.6	86.5	82.4	81.5	80.5	80.7	82.6	79.5	141.7
(948. RAD/SEC)	6300	95.5	95.6	94.3	94.4	95.9	94.3	88.8	83.5	81.7	79.0	78.8	77.8	82.8	76.8	141.2
NFD 10.628 RPM	8000	92.5	94.5	93.0	94.2	93.6	92.0	87.3	83.3	79.4	76.5	77.3	76.4	81.4	76.4	140.3
(1113. RAD/SEC)	10000	91.3	92.1	89.8	91.9	92.1	91.0	85.0	80.2	82.9	76.3	78.3	77.5	83.2	77.2	139.5
NO. OF BLADES 44	12500	87.7	88.0	86.5	88.5	88.8	86.7	81.5	75.9	72.0	70.8	68.8	68.7	79.6	68.1	136.8
	16000	84.3	84.0	81.8	85.9	85.1	84.1	78.0	73.1	74.1	69.4	69.1	66.2	78.2	68.2	135.8
	20000	79.4	80.9	77.9	84.0	81.6	80.2	75.2	73.5	80.3	71.5	74.2	73.2	82.4	73.9	137.3
OVERALL MEASURED		106.5	107.3	108.8	103.1	114.5	112.2	109.0	104.1	103.1	100.5	101.0	101.5	101.3	101.1	
OVERALL CALCULATED		106.1	107.8	109.6	113.8	114.2	112.4	109.2	104.0	103.6	99.9	101.3	101.9	101.4	101.3	158.8
PNDB		118.6	119.4	119.2	122.8	124.3	122.1	118.3	114.5	112.8	109.6	111.0	111.1	110.1	109.6	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

	FREQ.	0.0°	10.	20.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PHL
		(0.0)	(0.17)	(0.35)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	
	50	79.2	79.9	80.9	80.8	79.1	76.0	76.9	77.9	76.2	75.9	76.9	75.8	76.0	75.9	126.8
	63	73.0	73.1	73.0	82.0	78.1	70.7	69.1	69.2	72.2	71.2	69.8	68.3	69.9	69.2	123.3
RADIAL 100. FT.	80	67.9	69.0	68.3	71.8	67.1	66.4	65.5	65.9	66.0	66.8	64.6	62.8	63.5	64.0	116.0
(30. M)	100	69.0	68.1	67.0	75.1	68.4	66.1	65.0	65.9	64.3	65.1	63.9	66.2	67.1	69.1	117.3
VEHICLE ATT	125	68.5	67.5	66.0	76.4	71.6	70.3	65.4	67.1	63.2	65.3	68.3	66.3	67.1	67.1	118.7
CONFIG B=M IN	150	67.9	65.4	66.0	71.2	66.1	65.0	66.0	69.1	62.1	68.4	73.1	67.3	70.1	69.1	118.2
LOC PTD	200	66.3	67.2	65.9	75.0	66.5	64.9	63.9	63.1	61.2	62.1	61.1	61.4	63.3	62.3	115.7
DATE 8/09/74	250	71.3	72.5	71.8	77.2	70.3	68.8	67.4	67.1	66.1	66.3	63.2	64.3	64.3	64.0	118.9
RUN 681	315	72.0	73.2	73.0	73.2	71.4	69.0	69.2	70.0	69.3	69.3	66.1	68.3	66.1	66.1	119.3
TAPF A940	400	73.7	73.1	76.5	73.9	71.1	70.9	67.0	70.0	67.1	67.0	68.8	68.0	67.6	66.9	119.7
BAR 28.9 HG	500	76.0	76.8	78.7	82.7	80.2	73.9	72.2	71.1	69.9	71.0	73.6	68.1	68.7	68.1	125.1
(97659. N/M2)	630	84.2	88.8	91.3	93.0	91.6	93.0	90.4	84.3	85.5	92.6	87.1	86.5	86.5	73.5	139.6
TAMB 7. DEG F	800	91.1	91.3	95.0	102.9	104.5	102.8	96.2	94.1	94.4	96.4	94.3	92.4	92.3	91.3	148.5
(295. DEG K)	1000	93.8	99.7	100.0	101.1	102.7	103.3	97.3	95.4	96.7	88.6	96.2	94.7	96.5	87.3	148.5
TWET 67. DEG F	1250	97.5	95.3	103.1	105.9	107.6	102.9	102.4	102.1	99.4	98.2	95.3	94.3	94.4	90.0	151.8
(293. DEG K)	1500	94.8	96.3	100.3	105.1	107.7	104.5	100.6	99.7	95.6	93.6	91.6	93.6	92.4	89.6	151.1
WACT 15.70 G/M <sup>3</sup>	2000	92.5	92.3	95.2	101.1	102.7	98.3	96.5	92.3	89.6	87.4	85.3	85.6	84.5	84.3	146.0
(.01570 KG/M <sup>3</sup> )	2500	95.4	96.4	96.1	101.1	101.6	98.1	95.3	91.1	86.5	83.4	84.1	86.3	83.0	81.1	145.5
NFA 8616. RPM	3150	94.3	95.7	96.0	99.1	98.9	95.4	93.4	90.5	89.7	82.6	82.5	82.5	82.7	81.5	143.7
(902. RAD/SEC)	4000	97.4	96.2	96.0	97.8	99.5	95.1	91.2	87.3	83.3	81.1	80.1	81.7	81.3	79.2	143.3
NFK 8522. RPM	5000	94.5	97.6	96.3	97.1	96.8	94.4	88.5	87.8	84.5	81.5	80.5	79.9	79.5	79.5	142.2
(892. RAD/SEC)	6300	97.6	96.8	94.4	96.1	97.6	94.5	88.8	84.5	82.8	78.8	78.5	77.7	77.6	76.4	142.2
NFD 10428. RPM	8000	94.2	95.3	93.8	94.9	94.6	92.1	86.4	83.4	81.3	77.6	77.0	77.3	77.2	76.6	140.8
(1113. RAD/SEC)	10000	92.3	92.3	91.0	92.7	92.2	90.0	84.9	80.1	77.1	74.1	72.9	72.1	72.1	72.2	139.2
NO. OF BLADES 44	12500	89.0	89.9	87.3	89.5	89.1	86.7	80.8	76.6	72.7	70.8	68.7	67.9	67.8	67.7	137.2
	16000	86.2	86.3	83.6	89.0	85.3	84.2	78.2	74.1	78.2	70.5	71.9	71.2	72.1	71.1	137.2
	20000	80.6	80.4	79.0	86.5	81.8	80.6	73.5	70.6	72.5	68.4	65.5	65.6	67.3	65.4	136.3
OVERALL MEASURED		105.1	106.3	108.1	102.2	113.5	110.2	107.1	105.5	103.5	102.5	101.0	101.0	100.3	97.0	
OVERALL CALCULATED		106.1	107.1	108.8	112.1	113.6	110.8	107.3	105.8	103.7	102.4	101.3	100.6	100.9	96.9	
PHDR		118.9	119.1	119.4	122.9	124.3	121.3	117.6	115.7	112.6	111.1	109.5	110.2	109.5	107.0	157.9

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	PWL
FREQ. (0. )	(0.17)	(0.35)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)		
50	76.2	77.0	76.6	86.2	74.9	72.9	74.1	73.1	72.0	72.0	71.1	72.0	72.1	71.1	126.0
63	75.2	75.2	75.7	87.9	78.2	73.8	71.1	71.0	72.3	72.3	71.2	69.3	69.7	69.9	127.0
RADIAL 100 FT. (30. M)	80	69.9	69.6	69.5	78.4	67.9	67.5	67.8	66.6	65.7	66.5	65.0	65.7	64.9	119.0
VEHICLE ATT	100	71.1	70.2	69.7	79.0	68.0	66.0	66.9	66.2	64.0	66.0	65.0	66.0	68.7	119.3
CONFIG B" M IN	125	70.3	72.3	67.8	79.3	66.4	65.0	67.3	67.1	64.4	67.4	68.3	66.4	63.8	119.5
LOC PTO	160	68.0	63.9	65.9	76.0	64.2	63.8	62.0	61.9	60.0	61.1	61.9	63.0	62.9	115.8
DATE 8/09/74	200	70.2	71.2	70.1	78.9	66.1	65.3	64.3	64.1	61.4	61.4	60.3	60.1	61.8	118.3
RUN 682	250	76.9	77.3	76.8	85.0	73.1	73.1	71.2	71.0	69.3	67.3	64.0	63.3	64.0	124.5
TAPE A940	315	77.0	77.2	77.7	84.7	72.0	69.3	67.9	67.3	65.1	63.0	62.2	64.1	64.1	124.1
BAR 28.9 HG	400	74.9	77.0	76.4	84.7	72.9	68.6	66.9	69.6	70.0	65.0	63.8	67.0	66.4	124.1
(97659. N/M2)	500	75.1	76.0	73.8	80.9	71.6	68.6	64.9	65.2	63.9	65.0	62.6	63.6	65.9	121.0
TAMB 7.1 DEG F	630	81.5	80.2	79.9	88.3	74.5	73.2	74.4	71.2	71.3	72.4	68.1	70.5	69.3	127.8
(295. DEG K)	800	80.4	79.4	81.0	92.0	78.2	77.0	79.3	74.2	75.5	75.1	78.2	72.4	71.9	131.5
TWET 67. DEG F	1000	81.2	81.6	86.1	99.3	88.4	84.4	81.6	76.1	82.3	77.3	82.2	77.6	74.5	138.4
(293. DEG K)	1250	85.4	85.7	89.9	103.1	93.1	90.3	87.4	84.4	86.5	83.5	85.4	83.5	81.2	142.7
HACT 15.70 GH/M3	1600	84.4	87.9	84.0	108.8	91.8	89.4	85.7	86.5	80.5	78.9	77.7	79.7	88.7	139.3
(1.01370 KG/M3)	2000	87.4	86.3	86.9	102.2	93.2	90.2	87.5	85.7	81.4	81.6	80.3	81.6	77.2	141.9
NFA 7540 RPM	2500	88.4	89.3	90.2	104.2	97.0	93.8	92.1	87.3	82.4	81.4	83.3	85.5	78.2	144.5
(789. RAD/SEC)	3100	90.5	90.9	91.3	102.3	93.6	92.4	90.6	87.5	84.7	77.5	80.4	80.5	77.5	142.8
NFK 7458 RPM	4000	93.1	94.2	92.9	104.1	96.4	93.2	87.4	84.4	78.0	76.5	77.0	77.7	76.3	144.4
(781. RAD/SEC)	5000	92.4	94.9	94.5	104.3	94.5	92.4	86.7	85.9	81.6	78.8	77.3	78.9	76.8	144.6
NFD 10628 RPM	6300	94.5	94.0	93.3	103.6	95.3	92.4	86.6	81.7	80.6	76.6	75.7	75.5	74.5	144.4
(1113. RAD/SEC)	8000	92.3	93.7	92.3	103.3	92.5	89.8	83.1	80.3	77.5	74.5	74.2	73.5	74.5	144.2
NO. OF BLADES 44	10000	90.2	92.1	89.8	100.8	91.0	88.1	82.2	77.3	72.1	71.0	70.1	69.1	69.3	142.7
	12500	88.1	89.8	87.6	98.5	87.7	84.4	77.8	73.0	69.8	67.9	66.6	66.0	65.9	141.4
	16000	85.3	86.2	82.8	95.1	83.9	81.2	74.2	71.1	75.6	67.2	71.1	70.1	71.4	140.0
	20000	80.4	81.4	79.4	90.1	78.6	76.4	69.4	64.4	66.7	60.6	62.6	62.5	62.4	137.6
OVERALL MEASURED		102.4	102.5	101.4	103.2	105.1	101.8	98.0	95.2	93.5	92.4	92.0	91.5	89.2	89.1
OVERALL CALCULATED		101.5	102.5	101.9	113.5	104.6	101.8	98.1	95.3	92.8	90.1	91.2	91.1	88.3	87.8
PNDH		114.5	115.4	114.9	126.1	117.5	114.7	111.7	108.7	105.9	102.8	103.7	104.8	100.8	101.1



MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADTANS)

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADTANS)															PNL	
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)		(2.62)
50	80.8	80.9	81.8	81.3	79.8	78.8	77.9	78.8	77.6	78.0	77.1	79.1	77.8	76.8	76.9	78.5	128.3
83	75.7	75.1	76.3	74.2	77.0	77.1	74.2	72.3	71.1	74.3	72.3	73.1	72.1	71.2	71.0	72.1	123.5
RADIAL 100: FT, (30: R)	80	73.4	73.0	72.7	72.3	71.5	71.4	71.8	71.9	69.6	71.7	71.7	69.8	68.7	68.8	69.7	120.8
VEHICLE ALT	100	72.7	71.0	72.1	70.3	71.6	69.7	69.6	67.7	69.1	67.3	67.3	65.9	67.7	69.9	69.0	119.1
CONFIG RHM IN	160	69.7	66.4	70.2	69.2	68.7	59.7	67.2	66.2	70.1	65.2	69.4	71.9	67.0	69.2	66.1	115.7
LOC PTD	200	72.0	73.1	72.0	69.5	71.1	67.9	67.3	67.0	66.8	64.0	63.1	62.0	63.2	65.1	64.1	116.9
DATE 08/09/70	250	79.7	78.9	79.1	77.4	75.9	73.8	73.3	72.3	70.8	70.3	70.2	67.2	67.1	63.2	67.2	122.7
RUN 603	315	89.0	79.4	80.0	78.2	76.9	73.8	72.8	73.0	72.1	73.1	72.4	70.3	70.2	70.0	69.2	123.0
TAPE AY41	400	76.8	76.2	77.9	77.4	75.0	72.9	74.3	72.2	70.7	68.9	68.3	70.9	72.8	69.7	69.7	122.8
BAR 28.9 HG	500	75.5	76.8	78.8	76.2	77.5	77.5	73.1	73.0	68.9	69.8	69.2	71.7	71.6	70.0	69.1	123.6
(07659: N/M2)	600	82.8	84.5	89.7	86.5	90.4	89.3	92.4	88.3	79.0	83.5	89.6	85.7	83.2	83.2	75.5	137.7
TAMP 7: DEG F	800	90.9	89.5	94.4	98.6	101.9	104.1	104.3	96.3	93.9	96.3	93.6	93.0	93.0	93.4	93.3	148.7
(1796: DEG K)	1000	91.5	99.3	101.6	102.9	109.0	111.2	101.3	95.2	92.4	99.3	85.8	90.2	94.1	93.2	89.2	148.0
TWY 67: DEG F	1250	96.0	94.1	101.4	103.3	104.9	106.6	104.4	103.0	100.2	103.5	95.3	92.2	97.1	93.0	92.3	152.1
(293: DEG K)	1500	91.0	94.2	101.7	104.5	105.0	107.0	106.5	102.1	100.0	97.4	96.4	90.2	94.3	94.2	89.2	152.3
HACT 15.70 GM/M3	2000	91.1	90.7	93.4	100.6	102.1	103.0	99.4	96.0	91.2	90.6	89.8	85.7	88.1	86.3	85.4	147.0
(.01570 KG/M3)	2500	92.0	95.3	94.1	98.5	102.7	100.9	99.0	95.9	93.9	87.3	87.2	86.0	87.6	82.9	85.1	146.4
NFA 86: MPH	3150	95.2	93.7	95.8	96.8	99.1	99.1	97.6	94.2	89.4	88.3	87.6	83.5	81.4	81.2	81.4	144.5
(900: RAD/SEC)	4000	96.8	98.6	96.4	96.3	98.9	99.8	95.2	91.0	86.0	85.0	82.3	80.5	82.8	80.2	78.8	144.2
NFK 8506: RPM	5000	95.3	97.4	97.8	95.6	98.9	97.0	94.3	89.3	88.2	86.1	80.5	79.1	81.1	78.5	79.4	143.3
(891: RAD/SEC)	6300	97.2	96.5	94.6	97.0	96.5	97.0	94.7	89.2	82.1	81.4	77.8	78.6	77.2	75.4	75.6	143.0
NFD 1062: RPM	8000	94.2	95.3	94.3	93.5	95.8	94.8	92.4	86.2	81.0	81.9	77.6	78.4	77.7	76.9	78.1	141.7
(1113: RAD/SEC)	10000	92.7	93.3	91.1	92.4	92.7	93.7	90.2	85.1	78.6	77.9	73.3	73.2	72.9	73.0	72.0	140.3
NO. OF BLADES 44	12000	96.6	90.0	87.6	89.0	89.7	89.6	86.6	81.4	75.2	73.4	68.8	68.8	68.5	67.4	68.4	136.1
OVERALL MEASURED	16000	87.1	87.1	84.3	84.3	86.0	86.8	84.2	79.8	74.7	83.2	73.4	77.3	77.0	77.3	76.2	138.1
OVFRALL CALCULATED	20000	82.0	81.5	79.2	80.7	81.2	81.2	79.1	74.3	71.0	76.4	66.6	70.5	69.3	70.1	69.4	135.3
PNL	105.8	106.2	108.2	110.6	111.8	112.7	111.4	107.4	105.3	106.3	91.6	90.1	90.9	90.8	88.3	91.1	158.6
	105.6	105.4	108.7	110.7	112.0	113.3	111.7	107.6	105.1	106.5	101.3	100.5	101.7	101.0	100.7	100.7	
	118.6	118.5	119.8	121.7	123.6	124.3	122.6	118.5	115.9	119.3	111.9	109.1	111.1	110.2	107.4	109.5	

	FREQ.	(0.0)	(0.17)	(0.33)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	85.6	79.4	80.7	79.7	77.4	77.3	76.8	77.8	77.9	75.2	73.0	72.7	73.4	74.9	74.6	76.5	126.4
	63	83.7	74.0	74.2	74.0	75.9	76.2	73.1	70.6	73.1	73.3	72.3	71.2	71.9	71.3	71.7	73.0	122.9
RADIAL 100: FT.	80	80.3	70.5	70.6	71.4	69.2	69.8	69.6	69.3	75.3	69.8	69.9	66.6	65.4	66.9	68.4	67.4	120.0
( 30: M)	200	78.6	68.5	70.2	70.1	68.9	68.3	68.2	67.8	78.7	66.9	64.9	64.8	65.8	67.2	66.7	68.6	120.6
VEHICLE ATT	125	76.9	70.1	67.4	68.2	72.8	69.7	68.3	85.1	69.1	63.3	63.5	66.3	69.1	67.3	67.2	67.9	118.0
CONFIG BOM IN	150	79.4	74.8	70.2	69.7	83.7	77.4	75.2	64.8	70.9	71.9	71.0	74.6	78.8	72.2	75.9	75.6	125.9
LDC PTD	200	72.7	69.7	69.2	68.8	69.6	67.4	67.1	65.6	65.7	63.9	63.3	64.2	65.9	68.5	65.0	65.8	116.6
DATE 08/09/74	250	75.8	75.7	75.2	73.9	74.7	72.4	71.0	70.1	68.8	66.0	66.0	66.0	67.7	68.0	67.3	67.8	120.4
RUN 688	315	77.6	76.7	76.9	75.9	82.7	79.2	73.4	74.8	75.1	74.4	66.1	72.0	77.0	74.1	73.7	72.7	126.1
TAPE AV40	400	75.5	78.6	76.0	77.9	84.6	86.1	79.9	77.8	78.6	76.1	67.8	78.1	79.9	74.0	74.5	72.6	129.0
BAR 28.9 HG	500	79.5	85.5	81.0	84.9	92.5	93.3	89.0	85.5	85.5	82.8	73.1	84.8	85.4	81.8	82.8	80.7	137.2
(97659: N/M2)	630	87.1	90.0	91.6	98.4	100.9	103.7	99.4	98.2	92.1	88.6	80.3	89.3	87.9	94.3	95.3	93.9	147.1
TAMP 7: DEG F	800	00.0	00.0	03.9	07.9	07.7	05.5	00.5	04.0	95.7	94.1	93.4	96.9	99.8	97.1	99.8	95.9	150.3
(295: DEG K)	1000	195.9	199.1	105.4	106.1	102.9	105.4	103.3	198.9	94.1	98.2	93.2	94.2	94.1	94.6	87.2	95.1	150.0
THET 67: DEG F	1250	93.7	96.9	103.2	107.2	108.6	110.4	109.1	104.7	97.0	100.2	96.2	90.9	94.8	95.4	93.7	93.2	154.7
(293: DEG K)	1500	94.1	92.9	98.2	102.2	105.1	106.7	104.5	100.8	97.2	96.2	92.5	93.3	93.1	90.3	92.0	92.2	151.0
HACT 15.70 GH/M3	2000	92.9	93.0	94.3	97.4	100.1	99.6	97.4	94.2	89.4	91.5	86.4	87.4	85.9	81.6	84.3	85.1	144.8
(.01570 KG/M3)	2500	93.7	94.7	94.0	97.8	101.7	102.4	100.3	97.9	90.8	87.0	87.0	85.9	87.5	86.3	85.9	84.1	147.0
NFA 9: RPM	315	93.1	93.9	95.1	96.3	97.8	98.3	98.3	96.3	93.1	88.3	84.2	84.4	86.2	82.6	83.9	82.8	145.1
( 938: RAD/SEC)	4000	98.9	98.0	96.8	94.8	98.8	100.3	97.1	92.0	89.8	82.2	82.4	81.9	80.8	81.0	81.7	81.8	145.0
NFK 9030: RPM	5000	93.0	97.1	96.4	94.4	97.2	96.6	94.8	90.4	90.4	84.3	81.6	80.4	81.4	79.7	81.4	77.4	142.7
( 945: RAD/SEC)	6300	95.3	95.1	94.3	95.0	95.3	96.8	94.0	90.1	84.3	82.5	79.6	78.3	79.3	78.8	77.1	76.3	142.4
NFD 10428: RPM	8000	92.9	93.7	94.0	91.9	94.8	93.4	92.4	87.8	84.0	80.2	78.1	78.3	77.8	79.2	78.2	75.7	141.0
(1113: RAD/SEC)	10000	91.7	92.6	90.2	90.7	91.7	92.1	90.3	85.5	82.2	83.9	78.2	78.2	77.8	80.0	78.9	77.7	140.0
NO. OF BLADES	44	88.4	88.4	87.5	87.5	88.5	89.0	87.6	82.3	76.2	73.6	70.7	70.7	70.5	69.3	74.9	69.4	137.7
	15000	84.8	84.9	82.8	83.7	85.7	86.2	85.0	76.6	77.0	77.2	69.9	72.0	71.6	77.1	71.7	71.0	137.1
	20000	80.7	83.1	79.4	80.3	81.1	82.4	81.3	77.1	77.2	83.2	73.2	77.2	76.9	79.4	77.9	76.4	138.4
OVERALL MEASURED		109.6	107.0	109.9	112.2	113.9	114.6	112.4	110.0	105.9	104.1	100.4	102.0	103.0	102.0	102.7	100.9	
OVERALL CALCULATED		106.1	107.1	110.5	112.3	114.0	115.0	112.8	110.0	104.1	104.5	100.9	102.3	103.1	102.3	102.9	101.7	
PROB		118.7	118.9	119.8	121.4	123.9	124.8	122.8	119.5	115.2	113.7	110.1	111.1	111.8	110.4	111.3	110.1	159.9

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	89.8	79.6	80.0	78.6	76.7	76.2	76.1	76.7	76.0	75.1	73.0	73.1	73.7	74.9	73.8	76.8	125.0
63	88.1	77.7	78.0	75.7	77.8	77.1	73.5	72.8	73.0	73.1	72.2	71.2	70.2	75.3	75.9	76.7	124.4
RADIA 100: FT:	80	84.4	71.6	71.9	70.7	68.3	68.0	68.9	68.5	69.3	69.9	68.5	65.5	65.1	67.6	68.6	67.6
30: M)	100	82.6	67.6	69.9	68.9	68.6	68.2	67.3	67.6	68.0	66.0	65.3	66.9	66.8	68.1	68.7	68.7
VEHICLE AIT	125	80.2	67.8	67.5	67.3	67.9	67.2	67.3	66.2	67.3	64.5	64.2	66.4	67.8	67.6	69.3	68.0
CONFIG BEM IN	150	78.6	78.8	78.1	74.0	76.5	74.1	77.3	77.6	75.4	66.8	70.0	78.2	77.5	76.1	72.6	74.9
LOC PTD	200	75.9	68.7	69.0	67.8	70.7	66.3	67.3	66.0	65.0	64.3	64.1	65.2	65.8	66.3	65.8	65.8
DATE 08/09/74	250	75.9	73.6	74.2	72.7	71.7	71.4	70.2	67.9	67.7	66.2	66.3	65.9	67.5	68.5	67.1	68.0
RUN 687	315	80.6	80.6	81.2	78.0	75.9	76.1	71.2	74.0	74.6	75.0	74.1	74.9	70.4	77.4	75.8	74.8
TAPE A240	300	76.4	76.6	80.8	82.0	85.8	87.0	79.1	79.0	77.9	74.1	76.3	78.1	73.6	78.1	71.9	76.9
BAR 28.9 HG	300	87.5	87.8	93.1	94.6	98.8	99.9	92.3	92.6	90.0	87.2	88.1	91.2	85.4	91.0	79.5	88.7
(97659; N/M2)	630	91.2	98.2	96.3	97.3	105.3	106.6	102.8	101.2	102.5	98.2	90.3	93.3	98.7	95.3	90.0	90.9
TAMP 7: DEG F	800	91.9	91.9	98.2	101.2	103.0	102.3	102.3	102.3	96.0	90.0	91.3	91.3	91.4	96.6	91.8	91.8
(294; DEG K)	1000	92.6	92.6	95.2	101.2	103.0	102.3	102.3	102.3	96.0	90.0	91.3	91.3	91.4	96.6	91.8	91.8
TMET 67: DEG F	1250	96.6	95.8	103.1	103.2	104.8	104.6	103.6	99.9	91.8	94.4	89.2	92.1	92.8	92.5	85.1	87.0
(293; DEG K)	1000	94.0	93.8	95.2	100.2	102.3	104.7	100.3	96.6	88.9	89.2	87.6	84.3	89.5	92.6	86.0	87.0
HACT 5.70 GM/M3	800	91.8	91.2	95.2	96.1	95.3	98.5	98.0	91.1	87.5	88.6	85.6	87.6	81.6	88.0	81.0	71.9
(.81570 KG/M3)	2000	92.6	93.0	95.2	95.8	100.1	102.1	97.4	96.0	91.1	87.0	85.4	82.3	86.6	84.1	82.9	83.0
NFA 9530: RPM	3150	92.2	92.1	93.3	93.0	94.3	96.6	94.4	92.9	90.0	89.2	82.3	80.6	80.0	79.4	83.8	78.9
(998; RAD/SEC)	4000	95.6	94.7	95.3	94.7	96.1	99.9	97.2	91.7	89.6	84.2	82.3	80.2	82.7	79.1	81.0	81.0
NFK 9426: RPM	5000	92.1	93.3	93.2	93.2	93.4	95.9	94.7	89.1	88.9	84.6	82.7	79.6	81.2	78.4	80.2	76.1
(987; RAD/SEC)	6300	93.9	94.2	93.2	93.3	93.4	95.8	94.7	89.1	84.0	82.2	79.4	78.5	78.8	77.5	78.3	77.1
NFD 86.81 RPM	8000	91.7	91.1	91.1	91.2	91.8	91.9	91.2	86.7	81.7	79.1	77.5	77.1	76.8	76.4	77.0	75.0
(1113; RAD/SEC)	10000	89.8	91.6	90.1	89.7	90.6	92.1	91.6	85.8	81.6	86.1	78.3	80.6	80.1	81.1	81.6	79.7
NO. OF BLADES 44	12000	86.4	85.4	85.7	85.1	86.5	88.9	87.6	81.2	77.4	73.7	70.7	69.3	68.9	67.6	68.5	67.5
	16000	82.7	82.8	81.8	81.8	83.9	86.0	84.1	77.7	75.6	74.0	68.0	70.0	68.7	69.0	69.0	67.9
	20000	80.9	83.0	79.2	79.0	80.6	82.5	81.2	77.1	77.1	84.2	74.3	77.9	76.6	79.6	79.0	77.2
OVERALL MEASURED		113.7	107.8	110.3	112.8	113.7	114.1	111.5	108.7	109.1	103.0	100.9	99.4	101.3	101.4	97.2	98.7
OVERALL CALCULATED		106.6	107.6	110.9	112.9	113.6	114.4	111.6	108.5	109.3	103.9	100.2	99.7	102.1	100.8	96.3	98.3
PRDG		118.5	118.3	120.3	121.7	123.1	124.8	121.0	118.3	114.6	112.4	109.3	108.3	110.8	110.2	108.1	107.3

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Table with columns for FREQ, angles (0 to 150 degrees), and PWL. Rows include parameters like RADIAL, VEHICLE, LOC, DATE, RUN, TAPE, BAR, TAMP, TWET, HACT, NFA, NFD, and NO. OF BLADES.

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	81.8	80.5	81.0	79.5	77.4	77.8	76.2	77.5	76.9	75.0	73.7	74.8	74.1	75.8	77.9	126.6
	63	80.6	79.5	80.0	78.6	78.6	78.1	75.4	75.1	75.0	74.4	73.8	71.9	76.1	78.6	78.8	126.4
RADIAL 100: FT, (50: M)	80	75.3	71.3	71.8	70.3	69.2	70.0	69.8	68.4	71.6	69.9	69.9	65.5	65.7	68.4	69.6	119.2
VEHICLE ALT	100	73.8	68.5	70.1	66.7	67.8	69.2	68.0	67.9	69.8	67.1	65.3	66.1	66.7	67.3	71.5	118.1
CONFIG ROM IN	125	72.8	68.9	69.2	67.4	67.9	68.4	67.3	66.9	69.2	65.3	64.6	66.4	68.4	67.4	71.3	117.5
LOC PTD	160	75.9	76.6	78.1	73.8	74.8	72.3	77.3	77.8	77.7	66.2	70.9	77.9	77.0	76.2	74.7	125.5
DATE 08/09/74	200	78.9	67.6	68.2	67.0	70.0	71.1	67.3	66.0	74.0	63.1	63.2	65.2	66.0	67.0	67.0	116.4
RUN 489	250	74.9	72.7	74.0	71.8	71.9	73.2	70.2	68.7	71.7	66.3	66.3	64.9	67.8	69.1	68.8	119.9
TAPP AY40	315	79.6	78.5	79.0	80.9	78.6	80.1	73.5	76.6	80.1	77.4	74.3	75.2	71.7	78.3	79.8	127.9
BAR 28.9 HG	400	81.8	72.9	79.2	81.0	84.6	86.3	78.3	78.4	76.6	73.9	76.0	78.2	74.7	78.5	72.6	129.9
(97659: N/M2)	500	92.6	80.5	91.0	94.0	98.4	99.0	91.3	91.8	88.7	85.9	87.6	90.8	85.7	91.1	81.6	142.7
TAMP 7: DEG F	630	91.3	97.3	92.4	95.5	104.0	105.6	104.4	99.7	103.0	99.3	88.2	91.4	98.4	85.5	90.3	150.5
(290: DEG K)	800	5.8	3.9	8.1	11.3	7.8	7.5	7.2	7.1	9.3	9.3	9.1	9.1	9.6	95.3	82.7	93.9
THET 67: DEG F	1000	104.3	108.3	104.8	108.1	104.3	104.2	100.8	100.2	97.8	102.3	95.3	89.8	92.8	91.8	86.3	148.9
(293: DEG K)	1250	95.8	95.7	102.4	100.2	107.0	106.2	103.5	100.8	94.8	94.4	90.1	89.9	88.6	92.6	84.8	86.9
HACT 15.84 G/3	1500	92.1	96.9	106.2	103.9	106.3	106.3	100.5	100.2	107.9	90.2	90.4	87.2	86.1	87.1	93.9	89.3
(01584 KG/M3)	2000	93.2	95.0	95.3	100.2	103.2	105.7	100.2	98.3	93.0	88.4	85.3	87.3	89.0	85.5	87.0	87.5
NFA 9530: RPM	2500	94.7	93.5	94.0	95.9	98.6	101.3	97.1	94.9	91.2	86.1	83.3	82.9	84.9	82.4	84.7	82.9
(998: RAD/SEC)	3150	92.3	92.9	93.5	93.1	96.1	98.5	95.7	93.1	88.0	85.2	82.6	81.7	79.4	80.5	83.2	79.2
NFX 943: RPM	4000	96.9	94.7	95.0	94.9	98.0	99.1	94.1	90.7	85.6	82.2	81.0	81.3	83.1	79.2	79.7	78.1
(987: RAD/SEC)	5000	94.3	95.1	95.7	93.2	96.3	96.5	93.6	88.4	88.1	83.2	80.6	76.6	80.4	78.4	80.4	76.2
NFD 10628: RPM	6300	95.3	93.2	93.5	93.5	95.0	96.7	93.5	88.9	83.0	80.5	79.3	78.3	78.4	76.6	77.3	78.1
(1113: RAD/SEC)	8000	91.9	93.0	92.1	91.3	94.0	93.2	90.2	84.9	82.7	77.9	76.1	76.3	77.1	76.5	77.0	74.9
NO. OF BLADES 44	10000	90.9	91.5	88.9	90.1	91.8	92.3	89.3	83.7	81.6	86.9	78.2	81.2	80.0	82.1	82.6	80.0
	12500	87.1	86.4	85.6	86.0	88.4	88.0	85.9	80.1	76.2	72.4	68.6	72.4	69.5	69.6	70.1	68.2
	15000	83.5	82.5	81.8	82.0	84.9	85.2	81.9	76.0	73.7	73.8	67.1	73.7	69.6	70.4	67.6	65.3
	20000	79.8	82.8	78.8	79.0	81.0	82.3	80.5	75.9	70.2	64.5	74.2	79.2	78.3	79.6	80.2	78.0
OVERALL MEASURED		109.8	107.0	110.3	112.0	113.7	114.2	111.4	107.8	105.8	104.1	99.3	98.0	102.0	100.4	97.1	98.9
OVERALL CALCULATED		108.6	108.2	110.6	112.3	113.9	114.6	111.9	108.3	105.8	104.5	99.5	98.8	102.1	100.9	96.7	98.6
PWLS		119.3	118.4	120.0	121.4	123.6	125.2	120.9	118.2	115.0	112.5	108.7	108.5	110.6	110.8	108.0	108.2

MODEL SOUND PRESSURE LEVELS (99, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (C)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100: FT.	50	61.7	81.7	83.1	80.6	79.4	78.0	79.0	79.6	78.5	77.8	76.9	75.7	76.4	76.9	76.6	79.0	178.3
(30: M)	80	80.8	79.7	81.0	77.7	77.7	76.8	74.0	75.1	75.1	77.3	74.2	77.4	74.9	74.0	78.1	76.2	126.3
VEHICLE ATT	100	76.6	74.5	74.6	71.6	71.6	71.9	71.7	70.3	73.7	73.7	71.7	68.8	68.6	70.7	71.6	70.4	121.0
CONFIG B-M IN	125	73.4	68.3	76.1	68.9	67.7	68.4	68.6	69.2	68.2	66.5	67.3	68.1	69.8	69.3	72.2	72.4	119.0
L/C PTD	150	78.8	81.7	79.2	74.6	73.5	81.1	70.2	80.7	72.0	74.9	68.2	72.9	70.6	75.0	75.7	75.0	126.1
DXTF 08/09/74	200	80.8	85.8	82.9	77.8	76.9	84.4	72.4	83.6	74.8	77.4	69.9	76.3	72.5	77.1	78.8	78.1	129.2
RUN 690	250	74.8	69.1	68.9	68.7	69.7	78.0	72.4	67.6	67.6	66.0	67.1	67.0	69.7	70.0	69.7	69.8	119.1
TAPE 740	315	74.9	79.1	78.3	86.1	89.0	88.2	84.3	84.1	73.6	79.0	75.4	79.4	82.7	79.2	73.9	79.0	133.2
BAR 28.9 HG	400	78.4	82.9	82.8	91.3	92.8	93.0	88.3	87.8	77.9	82.8	78.9	83.1	86.7	83.3	76.6	83.0	137.4
(97659: N/M2)	500	87.5	76.7	86.1	95.6	94.4	94.0	93.3	90.9	81.6	73.9	86.9	78.9	86.0	85.6	89.0	89.0	140.0
TAMP 70: DEG F	600	81.7	82.0	87.1	93.8	94.9	96.4	94.1	90.1	84.0	84.3	83.0	84.3	79.8	78.5	82.8	78.0	140.4
(294: DEG K)	1000	89.2	85.3	92.3	97.3	98.2	99.4	96.6	92.9	85.9	85.7	83.3	87.6	81.9	81.5	83.9	86.4	143.4
THET 67: DEG F	1250	89.0	89.0	92.4	93.6	95.0	96.2	93.4	87.0	85.7	85.4	81.3	84.4	87.1	83.1	84.8	78.0	140.0
(293: DEG K)	1500	90.1	90.9	94.1	98.0	98.7	95.5	88.6	88.9	86.1	82.3	82.2	79.1	79.9	84.3	84.8	80.3	141.7
MACT 15.84 GM/M3	2000	89.1	89.0	93.2	93.1	98.8	97.0	93.4	89.3	84.2	83.2	79.0	79.6	82.0	79.4	81.4	79.2	141.9
(.01584 KG/M3)	2500	88.9	91.0	93.0	91.1	95.5	97.0	91.3	87.9	83.1	82.0	79.3	80.3	80.0	79.1	79.7	78.2	140.4
NFA 787: RPM	315	89.9	91.2	92.3	94.4	93.8	94.4	94.6	91.3	83.3	81.3	81.2	81.3	79.5	79.3	78.3	78.3	140.0
(1129: RAD/SEC)	400	92.0	92.8	92.3	91.8	95.6	96.3	91.1	89.0	84.7	79.9	80.3	81.0	80.9	80.3	79.8	79.2	148.7
NFK 667: RPM	500	91.2	91.3	91.3	92.2	95.0	95.4	90.8	87.4	87.3	81.4	80.6	80.4	81.4	77.8	81.2	75.2	140.4
(1118: RAD/SEC)	600	92.1	91.8	90.3	92.1	94.0	95.3	89.8	84.9	81.6	78.5	76.4	78.3	77.4	76.6	77.3	75.2	139.0
NFU 668: RPM	8000	89.0	89.8	90.1	88.4	91.7	91.4	87.4	83.0	82.1	78.0	77.1	77.0	79.8	78.2	78.7	72.8	137.9
(1113: RAD/SEC)	10000	88.8	90.9	87.9	87.9	90.5	90.3	87.3	83.5	82.5	90.2	81.1	83.9	84.6	86.0	84.5	84.0	139.9
NO. OF PLACES	12500	83.9	84.3	83.7	83.4	86.1	85.5	81.7	78.5	77.2	81.3	73.4	76.4	76.4	76.5	76.1	75.3	135.1
	15000	80.8	79.8	78.8	79.7	82.7	82.0	77.9	73.5	72.0	72.1	67.9	70.1	70.9	69.2	69.0	66.9	132.0
	20000	77.9	80.7	76.4	77.2	79.8	79.3	76.3	73.2	74.1	82.2	72.3	77.1	75.8	77.3	77.2	76.4	136.4
OVERALL MEASURED		103.7	101.8	103.4	106.1	107.6	107.2	104.0	100.0	90.8	97.1	95.4	95.4	96.0	95.2	96.0	96.2	
OVERALL CALCULATED		101.4	101.7	103.2	105.5	107.2	107.3	103.9	100.8	90.0	95.9	93.7	94.5	94.9	94.3	94.7	94.0	
PNDH		114.6	115.0	115.8	117.5	119.3	119.7	110.7	113.7	104.0	108.7	105.5	105.0	107.0	105.5	105.8	104.4	152.5

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PML	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	81.8	79.7	81.1	78.8	76.5	76.3	75.9	76.5	78.6	79.8	73.6	74.0	76.4	77.2	75.4	77.9	126.3	
63	78.8	73.9	75.0	73.8	80.0	76.4	75.4	73.7	75.6	75.4	74.1	75.0	76.7	77.2	77.0	76.2	125.6	
RADIAL 100: FT:	80	76.5	71.3	70.8	70.6	68.8	69.7	69.5	70.4	69.5	69.8	66.6	65.2	66.7	68.3	67.3	118.8	
30: FT:	100	74.8	70.5	71.1	68.9	69.9	70.1	68.2	67.8	69.8	68.1	65.1	66.9	66.8	69.3	71.0	72.0	118.8
VEHICLE ATT	125	73.9	70.9	69.3	68.0	72.1	70.6	69.6	66.2	70.0	67.5	64.2	66.2	68.7	68.2	69.8	71.3	119.0
CONFIG 92M IN	160	77.5	76.5	73.8	69.7	83.6	80.4	78.0	65.6	72.7	74.3	70.2	78.1	77.9	74.0	75.0	74.7	120.0
LOC PTO	200	71.9	70.1	70.9	68.7	70.7	68.2	67.0	64.9	68.7	63.3	62.9	63.2	64.9	66.1	65.1	65.0	116.8
DATE 08/09/74	250	75.8	75.6	75.9	75.0	73.9	72.1	71.5	71.0	70.0	67.1	65.2	66.0	66.9	68.4	67.8	68.1	120.7
RUN 691	315	82.0	81.7	81.2	79.1	82.7	76.4	79.2	79.9	78.9	77.1	68.9	74.9	74.0	76.5	75.0	75.8	128.1
TAPE A248	400	78.4	78.7	79.1	78.5	85.6	85.2	81.2	77.5	80.0	76.1	71.9	77.9	78.8	76.0	73.6	73.5	130.0
BAR 28.9 HG	500	83.7	85.8	83.0	85.8	92.9	94.3	89.0	86.5	86.6	82.1	78.0	84.8	85.8	85.0	83.9	81.6	137.9
(97659: N/M2	630	86.2	94.8	92.3	98.2	102.3	104.7	101.4	98.9	93.0	89.6	85.2	92.5	90.9	97.4	97.2	95.4	148.4
TANB 7: DEG F	800	97.7	100.7	103.3	99.6	108.1	104.5	99.0	104.6	98.2	93.0	91.0	97.3	100.8	98.1	98.7	89.8	152.4
(294: DEG K)	1000	98.1	98.2	104.5	96.0	103.3	104.7	102.7	98.9	93.0	97.4	94.2	94.2	103.9	94.7	85.2	94.3	149.5
TWET 67: DEG F	1250	97.7	95.7	94.1	85.6	89.9	104.4	104.0	104.9	99.2	100.0	96.2	89.9	96.7	94.5	94.7	9.8	55.1
(293: DEG K)	1500	94.1	93.6	109.2	102.9	104.4	104.7	104.6	100.1	98.2	103.3	89.3	91.1	92.8	91.2	93.1	90.2	151.2
HACT 15.84 GM/M3	2000	92.8	92.9	97.3	99.1	98.3	98.6	95.4	91.2	89.4	87.3	86.2	87.3	85.9	87.7	85.3	84.2	143.9
(.01583 KG/M3)	2500	91.8	94.9	95.0	98.7	100.7	100.3	97.9	93.0	89.8	88.1	84.0	84.2	85.6	86.3	82.7	82.8	145.3
NFA 9.44: RPM	3150	92.8	93.9	95.3	97.2	99.3	100.5	97.6	94.9	91.4	86.3	84.2	81.2	83.9	81.4	83.0	81.2	145.1
(.457: RAD/SEC)	4000	95.6	94.9	95.3	94.1	98.1	100.0	96.1	90.9	85.0	81.2	80.2	80.0	79.6	78.3	79.0	80.1	143.8
NFK 9.049: RPM	5000	93.0	96.3	96.7	94.1	97.1	96.5	94.8	89.1	87.1	84.4	81.3	79.7	81.1	79.6	80.5	77.5	142.6
(.947: RAD/SEC)	6300	95.9	95.2	94.6	95.0	95.0	95.7	93.8	89.3	84.0	80.5	78.3	77.3	77.3	76.4	76.0	76.2	141.8
NFD 10628: RPM	8000	92.9	93.9	93.4	92.9	94.1	93.4	92.1	86.7	83.1	80.0	77.3	77.2	76.9	76.2	77.1	76.0	140.7
(1113: RAD/SEC)	10000	91.5	91.5	90.2	91.0	92.9	92.0	90.3	84.7	80.8	84.9	76.1	78.2	78.5	79.0	78.9	78.6	140.1
NO. OF BLADES 44	12500	88.1	88.4	87.4	87.7	90.1	88.6	87.5	81.1	77.1	72.5	69.3	69.5	68.4	67.5	69.0	69.2	137.8
16000	84.8	84.6	82.9	83.6	86.0	86.3	82.9	78.3	75.9	77.2	68.9	72.1	71.5	72.2	72.6	71.6	136.0	
20000	86.7	83.1	80.1	80.1	82.8	82.3	80.4	76.8	77.1	83.4	73.3	78.1	76.1	77.6	78.1	76.9	138.4	
OVERALL MEASURED	107.9	106.7	110.0	111.8	113.7	114.2	112.1	108.6	104.8	103.4	99.8	101.3	103.5	103.2	102.8	100.8		
OVERALL CALCULATED	106.2	106.9	110.5	112.6	114.3	115.3	112.5	109.7	104.9	104.0	100.3	101.5	103.9	103.2	102.9	100.4		
PMD	118.3	118.6	120.0	121.6	123.8	125.0	122.4	118.7	115.3	113.3	109.8	110.0	112.1	110.7	110.8	109.0	159.9	

MODEL SOUND PRESSURE LEVELS (DB, DEG, F, 70 PERCENT REL. HUM, DAY) ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	(0.0°)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	PWL
	50	80.3	80.5	81.8	83.5	79.3	79.1	77.9	77.6	78.8	76.9	76.2	78.0	77.5	77.1	78.6	80.0	128.5
	63	76.7	74.7	75.2	73.9	76.6	77.3	73.1	71.7	72.6	73.0	72.0	72.2	71.6	71.4	70.7	70.9	123.1
RADIAL 100: FT.	80	74.6	72.5	71.9	71.6	71.2	70.0	70.9	70.2	70.3	70.0	71.0	68.8	68.3	69.0	68.4	68.7	120.0
(30: FT)	100	73.5	70.8	71.1	69.6	70.5	70.1	68.9	67.8	68.9	67.1	66.9	65.9	67.6	69.3	70.9	68.8	118.7
VEHICLE ATT	125	72.1	70.1	69.4	69.3	70.1	70.6	68.6	66.9	68.0	65.3	67.6	69.5	68.2	73.5	69.0	67.2	119.1
CONFIG BEM IN	160	69.6	65.5	68.0	68.7	72.6	71.3	67.0	64.9	68.9	63.3	70.3	72.2	67.6	77.4	69.6	69.0	120.7
LOC PTD	200	72.0	71.7	72.0	68.8	69.7	68.3	67.2	65.7	64.9	63.0	62.2	63.0	62.7	67.0	64.0	63.9	116.4
DATE 08/09/74	250	78.9	78.4	79.1	77.0	75.7	74.2	73.0	72.0	71.8	70.1	69.4	65.2	67.6	71.2	67.1	68.1	122.7
RUN 692	315	77.8	79.1	80.1	77.8	77.7	75.3	73.0	72.7	73.0	73.3	72.4	67.0	70.6	74.1	67.7	70.2	124.2
TAPE AY40	500	75.5	74.8	78.8	76.0	74.5	73.0	73.2	68.8	70.9	69.0	69.0	68.9	70.5	72.9	68.5	69.9	122.3
BAR 28.7 HG	380	76.5	78.4	80.7	77.7	79.5	78.9	73.8	70.5	70.9	68.2	69.9	70.9	69.5	72.0	69.5	69.6	124.6
(97659: N/M2)	830	85.1	85.0	89.6	88.1	90.9	89.4	92.4	87.9	81.4	82.3	89.3	85.2	81.9	84.6	77.0	74.0	137.7
TAMP 70: DEG F	900	90.8	88.0	93.1	96.2	101.9	104.5	103.5	94.9	93.8	93.4	93.0	93.0	90.0	91.2	92.2	90.9	140.3
(294: DEG )	1000	92.0	101.3	103.3	103.2	101.1	102.4	102.4	97.9	97.0	99.4	87.6	94.6	94.2	95.7	92.0	96.4	149.4
TMET 67: DEG F	1250	97.7	94.0	102.1	103.0	104.7	107.1	104.1	102.7	102.9	101.4	96.3	94.4	96.8	93.5	91.8	88.9	152.1
(293: DEG K)	1500	92.9	95.2	100.1	103.3	104.8	108.5	106.3	102.0	100.2	96.5	95.5	92.1	95.1	94.3	91.1	92.1	152.4
HACT 5.84 GH/M3	2000	91.1	91.7	94.3	97.7	101.9	103.4	99.6	96.9	91.1	88.4	86.3	86.5	86.0	84.7	87.1	85.4	147.0
(.01584 KG/M3)	2500	94.8	95.7	95.0	98.2	103.5	103.1	101.1	96.6	93.1	88.1	86.1	87.3	88.9	84.4	85.8	86.8	147.8
NFA 8597: RPM	3150	94.9	94.2	96.3	97.5	99.1	100.4	96.6	94.0	91.1	87.4	82.8	82.5	83.9	83.4	81.9	83.3	144.8
(900: RAD/SEC)	4000	96.6	95.7	96.3	96.1	98.8	100.1	95.4	90.9	87.0	83.0	81.2	80.2	81.8	81.3	79.8	82.0	144.2
NFK 8507: RPM	5000	94.0	97.1	97.6	94.6	98.9	97.7	95.5	90.3	89.2	83.8	81.7	79.4	81.1	80.8	80.2	77.5	143.5
(891: RAD/SEC)	6300	96.9	96.1	95.6	95.4	96.1	97.7	95.4	89.3	84.8	81.6	78.4	78.6	78.0	78.5	76.1	76.1	143.1
NFD 06.8: RPM	8000	94.0	95.1	94.4	92.9	94.7	95.2	92.1	86.7	83.1	80.5	77.5	78.0	77.8	79.5	78.0	77.1	141.6
(1113: K U/SEC)	10000	92.4	92.8	91.3	91.9	92.8	94.0	90.3	84.3	80.9	78.2	73.1	73.8	73.4	77.0	73.6	72.9	140.5
NO OF BLADES 44	12500	90.0	89.2	87.5	88.6	89.1	89.9	87.6	81.3	77.5	73.5	69.7	69.4	69.1	75.5	69.1	69.3	138.2
	16000	86.7	86.7	84.1	85.0	86.6	87.1	84.9	78.7	77.0	83.3	74.0	77.9	77.6	81.0	79.0	77.1	138.6
	20000	81.6	80.7	79.2	79.9	81.0	82.2	79.3	74.8	75.2	76.4	67.2	71.0	71.0	78.5	79.8	70.1	136.0
OVERALL MEASURED		106.8	106.8	109.1	109.9	111.7	114.1	111.2	107.0	105.8	105.2	101.2	99.9	101.0	101.0	98.7	100.2	
OVERALL CALCULATED		105.7	106.6	109.1	110.0	112.1	114.0	111.8	107.5	106.4	105.1	101.2	100.5	101.4	100.8	98.9	99.8	158.7
PROD		115.5	118.6	119.9	120.9	123.9	125.0	122.7	116.4	116.2	113.8	111.5	109.7	111.3	110.9	108.6	109.1	



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
RADIA 100: FT	80.4	80.5	81.1	79.9	86.8	79.0	77.3	77.5	77.6	76.9	76.1	77.7	76.4	77.3	76.9	73.5	129.1
VEHICLE 100: H	75.5	71.7	72.0	71.2	98.7	76.0	70.5	67.7	70.7	72.1	69.9	70.3	68.6	70.1	69.6	70.8	136.4
LOC PTD	72.6	66.3	66.8	65.6	82.2	43.0	63.0	63.5	65.6	64.7	63.7	61.9	61.3	61.7	63.6	63.4	120.7
DATE 06/09/76	71.4	64.6	65.9	65.0	98.6	45.2	63.1	62.3	63.7	62.2	63.1	62.8	64.8	66.3	67.6	65.9	136.2
RUN 693	70.1	64.2	64.2	64.9	111.8	47.4	66.4	62.9	67.3	61.5	71.3	69.5	64.8	67.5	67.9	65.9	149.4
TAPE A940	71.6	63.5	64.8	66.7	98.5	70.4	68.9	64.5	69.1	61.9	73.9	72.9	65.8	71.0	69.6	68.0	136.2
BAR 28.7 MG	68.9	63.9	64.3	63.8	102.0	64.2	64.0	62.7	63.0	61.3	61.3	61.0	61.9	63.3	62.8	64.1	139.7
(97659: N/M2)	71.9	72.7	74.2	71.1	95.7	72.2	68.0	67.9	71.0	69.1	68.9	62.2	66.0	65.4	65.8	68.1	133.6
TAM 7: DEG F	73.9	75.6	78.0	75.0	95.0	75.5	70.1	70.5	74.5	73.1	72.2	69.6	69.6	69.0	67.8	70.9	133.2
(298: DEG K)	76.7	73.5	77.8	76.6	97.9	72.3	77.1	70.9	72.9	72.3	74.0	78.9	68.7	69.0	68.9	70.6	136.0
TIME 67: DEG F	75.5	76.5	81.9	80.5	89.8	84.3	77.2	75.6	73.3	72.2	71.0	73.7	69.8	68.0	67.6	69.6	130.2
(293: DEG K)	84.2	85.9	88.3	92.1	92.8	94.8	95.7	92.9	88.0	88.7	92.6	88.2	85.2	88.6	84.9	77.2	141.4
NFA 8593: RPM	89.8	90.8	89.4	92.2	97.6	95.3	104.5	97.8	96.9	95.2	96.1	95.0	74.0	94.1	93.0	92.9	149.2
(908: RAD/SEC)	91.3	98.0	101.3	101.0	97.8	103.3	103.3	98.8	98.4	98.3	88.3	96.3	93.1	94.6	94.4	90.2	149.2
MFR 883: RPM	97.7	95.7	80.4	101.9	103.6	109.2	106.6	102.9	101.9	99.0	99.0	97.7	96.0	94.0	89.8		53.5
(898: RAD/SEC)	93.7	95.8	100.4	108.9	108.1	106.4	106.4	102.2	100.0	100.4	95.5	92.4	90.0	95.4	92.9	92.2	151.7
NO. OF BLADES 12	91.9	90.3	94.2	94.4	97.0	102.0	99.3	96.2	91.1	90.5	89.2	83.8	85.8	85.4	83.1	87.3	145.7
OVERALL MEASURED	93.6	96.0	94.9	98.1	99.8	104.1	101.4	97.8	92.7	90.1	86.0	87.0	87.6	84.1	83.8	86.0	147.5
OVERALL CALCULATED	93.8	93.2	94.3	96.3	97.1	99.6	96.4	93.9	91.1	88.3	82.3	81.5	83.1	83.4	84.3	83.0	144.1
	95.9	95.0	94.2	94.7	99.8	99.1	97.2	91.0	87.7	82.9	81.2	80.2	80.6	80.0	79.8	81.0	144.0
	96.0	96.5	96.4	96.4	99.0	96.6	94.6	89.1	87.1	81.7	80.7	78.4	81.4	78.8	79.5	78.0	141.0
	95.9	95.2	94.6	94.4	98.2	96.5	94.7	89.0	83.8	80.6	78.6	78.5	79.2	75.7	76.4	76.8	143.1
	92.9	93.7	93.0	91.9	99.1	93.3	91.5	86.3	82.7	82.1	76.1	78.3	77.6	77.5	78.0	78.0	142.2
	91.6	91.8	90.1	90.7	99.6	92.1	90.0	83.7	80.0	76.9	72.8	72.8	72.4	72.3	73.6	72.8	142.5
	88.3	88.4	86.3	87.4	100.1	88.5	86.6	81.4	78.4	71.8	68.7	68.4	68.2	67.5	60.1	68.1	143.0
	85.4	85.7	83.0	83.6	108.8	86.0	83.9	78.6	75.8	63.2	73.2	77.1	76.8	78.2	77.9	76.9	145.4
	81.0	79.8	78.3	78.9	99.8	80.6	79.2	74.1	72.1	75.4	66.3	70.0	69.7	70.4	70.1	69.8	146.5
	105.7	105.6	107.4	107.9	112.7	114.3	112.3	108.7	106.9	103.5	102.4	103.3	101.0	101.1	99.7	99.8	
	105.8	105.0	108.0	108.7	115.4	114.6	112.6	108.7	107.1	105.5	103.0	102.9	101.3	101.8	100.2	98.6	
	117.7	117.7	118.7	119.7	124.5	125.0	122.9	118.8	116.4	114.5	111.9	111.3	110.4	109.6	109.4	108.9	160.0

LE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (99. DEC. 7. 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 9 DAY 4 HR. 19.3 ANGLES FROM INLET IN DEGREES (AND RADIANS)

VEHICLE CONFIG DATE RUN TAPE BAR TAMB TMEY NACT NFA NFK NFDIASE NO OVERALL

Table with columns for frequency (FREQ) and pressure levels (PWL) at various angles (0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150 degrees). The table contains numerical data for each combination of frequency and angle.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
		(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	79.7	79.4	81.1	80.6	78.7	77.1	76.2	77.5	76.6	75.1	72.7	72.6	73.7	75.1	73.5	76.6	126.3
	63	76.5	73.9	75.3	75.2	77.8	76.4	72.1	72.0	72.1	73.4	69.9	69.9	70.9	73.2	74.0	73.7	123.3
RADIAL 100: FT.	81	71.3	68.2	69.9	70.8	70.3	66.0	65.7	65.3	67.6	66.6	65.6	62.9	63.2	64.7	65.6	65.3	116.5
VEHICLE (30: MI)	100	69.8	65.5	67.9	69.8	72.6	65.1	65.2	64.6	65.9	64.2	62.9	64.9	63.8	66.9	67.7	67.7	116.6
CONFIG ATT	125	69.1	65.1	66.4	69.3	71.1	65.2	65.7	65.1	67.2	63.1	63.2	65.4	63.7	66.4	68.1	68.3	116.7
CONFIG SEM IN	160	76.5	75.5	78.9	74.0	73.5	69.9	76.0	74.6	75.9	70.3	69.9	76.2	79.8	76.0	74.9	76.0	125.8
LOC PTO	200	67.6	65.0	65.3	66.0	73.9	65.3	65.4	64.6	65.9	63.3	63.3	64.3	66.8	66.3	65.8	66.0	116.5
DATE 08/09/74	250	68.5	67.7	68.0	68.0	76.0	68.1	66.2	65.1	66.6	64.1	62.9	63.9	65.9	67.0	65.8	65.8	117.8
RUN 696	315	79.6	76.6	78.0	80.1	82.0	81.4	76.3	74.9	79.0	77.9	73.0	78.3	77.6	79.0	78.0	76.1	128.4
TAPE A740	300	78.8	74.6	76.8	82.1	84.6	83.2	85.3	81.9	76.8	78.1	76.9	81.0	78.5	83.1	75.7	77.7	131.3
BAR 28.2 HG	300	89.8	84.8	87.1	92.8	96.7	95.3	97.0	93.8	88.6	90.0	89.1	92.1	90.5	94.1	86.6	89.6	143.0
(97659) N/M2	300	93.2	97.9	92.4	95.5	104.9	106.4	106.6	102.2	102.0	98.6	98.1	96.5	98.7	88.2	92.0	98.2	151.7
TANG 68: DEG F	300	104.0	102.7	104.0	107.4	110.0	107.2	106.1	101.7	92.1	96.1	92.0	91.3	97.6	96.0	89.1	96.8	153.6
(293) DEG K	300	86.9	87.1	83.4	89.6	104.0	102.6	102.4	96.9	96.0	91.5	92.4	91.2	87.8	91.2	82.3	88.2	148.6
THET 66: DEG F	300	97.9	97.1	96.8	98.1	105.0	97.2	99.5	98.1	96.9	91.4	90.2	94.0	91.6	90.0	85.8	85.9	149.8
(292) DEG K	300	93.8	94.8	198.4	98.4	103.1	104.3	98.3	94.4	89.0	87.1	86.2	86.1	89.0	89.1	87.2	87.1	147.4
HACT 15.19 G/M3	2000	94.9	97.0	97.6	99.4	101.9	104.4	99.6	100.9	93.0	89.6	88.6	86.3	87.8	86.2	85.3	87.2	148.2
(81519) KG/M3	2300	93.6	93.0	94.2	93.9	96.9	98.1	95.1	91.7	97.7	86.1	80.2	82.1	84.5	82.0	82.0	79.1	142.5
NFA 9410: RPM	4150	92.9	92.9	93.5	93.2	94.0	97.7	93.7	92.2	86.0	84.2	81.2	80.8	80.8	79.3	83.2	79.3	141.7
(985) RA/S EC	4000	96.6	95.8	95.0	94.3	95.8	99.4	95.4	90.6	86.7	80.9	82.1	82.0	82.9	79.3	79.0	79.9	143.1
NFK 9329: RPM	9000	93.2	95.3	95.3	92.3	95.2	94.8	93.6	88.2	88.1	84.4	80.5	79.6	80.9	79.7	80.4	76.1	141.2
(977) RPM/SEC	6000	95.2	94.1	93.3	93.2	93.1	97.4	94.4	89.1	83.2	82.2	78.6	78.3	79.2	77.4	78.3	77.1	141.8
NFD 10628: RPM	8000	92.0	92.8	92.1	90.1	92.7	93.4	91.5	85.7	83.0	79.1	76.2	77.0	77.0	76.4	76.8	74.8	139.8
(1113) RAD/SEC	10000	90.8	91.5	88.0	89.1	90.6	92.3	90.3	84.8	80.9	86.1	77.2	80.1	79.8	80.9	80.8	80.0	139.7
NO. OF BLADES 44	10000	87.1	86.2	85.4	85.4	87.1	88.8	86.5	80.4	77.1	71.5	69.6	71.7	70.3	67.6	69.2	68.5	126.6
	10000	83.3	82.8	81.1	81.8	83.8	85.1	83.2	77.8	74.6	75.0	67.9	72.1	71.7	70.0	68.7	68.7	125.4
	10000	80.8	82.9	78.1	79.1	82.1	81.3	80.5	77.2	77.2	84.5	74.2	78.5	77.8	78.2	78.2	78.8	138.7
OVERALL CALC. 10000	10000	108.7	108.0	108.0	110.4	113.7	113.3	112.3	107.9	105.1	102.4	101.2	101.0	102.6	100.9	96.8	99.8	159.1
OVERALL CALC. 10000	10000	108.0	107.9	108.4	110.2	114.1	114.2	112.5	106.5	103.2	102.8	101.4	101.2	102.8	100.3	96.9	99.8	159.1
OVERALL CALC. 10000	10000	119.1	118.9	118.7	119.7	122.8	124.1	121.0	119.1	114.2	111.6	110.0	109.7	111.0	109.3	107.4	108.8	159.1

REPRODUCIBILITY OF THE ORIGINAL PAPER IS POOR

	FREQ.	(0.0°)	(10.17°)	(20.35°)	(30.52°)	(40.70°)	(50.87°)	(61.05°)	(71.22°)	(81.40°)	(91.57°)	(101.75°)	(111.92°)	(122.10°)	(132.27°)	(142.44°)	(152.62°)	PWL
	50	78.4	79.4	80.8	79.9	77.8	76.1	76.1	76.5	75.8	74.9	72.8	73.0	74.6	75.1	73.5	75.9	125.8
	63	72.7	71.7	73.0	73.1	76.7	76.0	71.4	70.0	71.1	73.0	78.0	78.4	70.7	71.1	71.8	71.7	122.2
RADIAL 100: FT.	80	67.4	67.3	68.8	70.6	67.6	64.8	64.0	63.5	67.6	69.7	64.6	61.6	61.6	62.7	64.7	64.3	115.3
VEHICLE (30: M)	100	67.5	65.6	67.2	69.0	67.6	65.1	66.3	63.6	66.9	69.2	64.6	61.6	63.6	66.2	66.6	68.7	115.6
CONFIG ATT	125	68.1	65.9	65.2	66.3	69.2	66.4	67.6	61.9	67.3	64.6	63.5	65.4	67.8	65.5	67.2	68.2	116.3
CONFIG BOM IN	150	76.4	74.7	74.1	68.7	75.8	74.4	78.4	83.9	72.8	74.2	73.2	76.2	78.6	72.2	74.5	75.0	124.9
LDC PTD	200	65.7	63.7	63.9	64.7	69.6	65.4	65.5	63.7	65.9	62.4	62.3	63.0	63.9	65.1	64.8	65.8	114.9
DATE 08/09/74	250	68.9	68.0	69.0	67.0	67.7	67.5	66.2	64.7	66.1	63.0	62.2	63.2	65.6	65.4	65.0	64.8	116.5
RUN 697	315	77.6	77.8	79.2	74.7	76.7	76.1	71.4	72.9	73.0	71.1	67.4	71.0	73.7	74.3	72.0	71.8	123.7
TAPE A940	400	75.8	79.5	75.9	82.0	86.5	80.1	82.3	78.5	79.8	77.3	71.6	82.1	81.8	76.2	76.9	76.0	131.9
BAR 28.9 HG	500	80.6	85.6	81.8	88.7	93.4	95.2	90.3	87.6	80.6	83.2	78.2	87.9	88.5	85.2	85.5	83.9	139.0
(97659: N/M2)	630	89.9	91.3	93.6	100.3	103.9	105.6	101.7	100.0	95.9	90.6	84.3	94.3	92.2	97.5	97.0	96.4	149.4
TAMB 69: DEG F	800	99.9	97.9	104.9	109.2	109.1	105.1	100.1	100.7	99.1	94.3	92.1	99.9	99.9	97.1	96.8	95.9	152.8
(293: DEG K)	1000	96.1	98.9	104.3	106.1	103.9	103.3	100.8	97.0	91.2	93.6	93.2	91.5	91.2	92.4	85.2	92.0	148.5
THET 66: DEG F	1250	94.5	96.9	100.9	106.2	109.8	111.2	109.3	105.1	99.0	99.0	98.0	88.3	96.8	95.5	93.0	91.8	155.2
(292: DEG K)	1500	91.9	92.8	96.2	98.9	104.1	106.3	103.6	96.9	95.1	92.2	91.2	86.2	92.0	90.2	91.8	89.2	149.0
HACT 15.19 GH/MS	2000	92.8	92.9	94.5	96.1	100.3	98.6	94.7	91.0	89.0	86.3	83.5	84.2	84.2	84.4	82.9	82.0	143.0
(.01519 KG/MS)	2200	93.4	93.9	93.8	95.0	101.6	102.3	100.4	96.7	91.0	86.9	83.0	85.9	87.9	84.1	84.5	84.0	146.6
NFA 9 20: RPH	3150	92.7	93.9	95.2	95.1	100.0	98.2	99.1	97.0	92.0	87.4	83.3	82.2	87.8	82.7	85.0	83.0	145.9
(.035: R/D/SEC)	4000	96.9	95.7	94.9	94.8	106.7	106.4	97.3	92.0	87.6	81.9	81.0	81.0	80.5	79.4	78.7	78.8	143.8
NFK 9042: R/D/SEC	5000	93.8	96.4	95.4	93.1	97.1	96.6	95.6	90.1	89.1	85.4	83.3	79.4	82.1	80.5	80.1	77.2	142.8
(.947: RAD/SEC)	6300	95.8	94.2	93.3	94.3	94.1	95.6	94.3	89.2	84.2	83.4	78.3	77.5	79.2	77.5	76.9	75.9	141.6
NFD 10628: RPH	8000	92.8	93.6	92.0	91.9	94.8	93.2	92.2	86.9	83.8	81.1	78.1	77.2	77.0	76.5	76.7	75.7	140.7
(111: RAD/SEC)	10000	91.5	91.6	89.9	89.8	91.8	92.2	90.3	85.8	81.8	84.3	76.9	78.9	77.6	79.3	78.9	77.7	139.9
NO. OF BLADES	12500	88.3	87.3	85.7	87.3	89.1	88.6	87.8	82.1	78.1	73.7	70.4	72.3	69.3	67.4	69.0	68.5	137.6
	15000	84.7	84.6	82.0	83.0	87.9	86.6	84.2	78.8	75.0	78.3	69.5	75.3	71.6	71.9	72.7	71.8	137.2
	20000	80.0	83.0	78.1	79.0	89.2	82.5	81.4	76.9	75.9	83.3	73.1	76.3	76.9	77.6	78.0	77.3	139.9
OVERALL MEASURED		105.9	106.1	108.9	111.9	114.1	114.5	112.4	108.7	104.9	102.4	100.8	102.3	103.7	102.1	101.8	100.9	
OVERALL CALCULATED		106.1	106.5	109.9	112.6	114.9	115.2	112.7	109.2	105.1	102.7	101.1	102.4	103.5	102.7	101.9	101.3	
PRDB		118.6	118.5	119.0	121.2	124.2	124.9	122.8	119.1	115.0	112.4	110.5	116.9	112.0	110.3	110.0	109.1	159.9

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)	( )
	50	80.6	81.7	82.1	79.9	78.4	77.9	78.0	78.8	77.8	76.8	75.8	74.9	75.8	76.1	75.4	77.7	127.4
	63	77.9	77.9	79.1	77.0	78.7	78.1	75.0	74.0	74.8	76.1	73.9	73.1	72.8	74.1	77.7	77.0	125.7
RADIA 100: FT:	80	71.3	72.5	72.6	70.6	70.3	69.9	68.6	68.3	70.3	70.0	68.9	65.7	67.5	68.7	69.7	69.6	119.2
L (30: M)	100	68.7	68.6	70.2	68.0	65.6	68.3	62.9	65.6	66.9	64.9	66.2	66.2	66.6	67.0	67.6	69.0	116.8
VEHICLE ATT	125	67.8	66.8	67.2	66.2	65.9	66.4	66.5	66.3	66.2	65.3	65.5	65.2	67.9	68.3	71.3	71.0	117.2
CONFIG BEM IN	160	75.4	79.5	77.3	78.7	73.9	79.1	68.0	77.5	69.0	72.9	67.3	71.4	68.5	74.0	73.7	73.6	123.9
LOC PTD	200	78.5	82.9	81.4	75.1	77.9	83.0	71.4	80.6	72.1	75.8	69.1	73.3	70.6	75.4	76.7	75.8	127.2
DATE 08/09/74	250	67.6	66.9	68.8	67.1	67.6	70.4	67.0	66.0	65.0	65.0	65.1	65.3	67.9	68.0	67.7	68.7	117.1
RUN 699	315	76.5	74.7	79.4	84.7	87.0	86.1	82.2	81.0	75.2	78.4	75.4	76.4	81.7	78.4	75.1	78.9	131.5
TAPE AV40	400	80.5	78.5	82.9	89.0	91.0	90.1	86.0	84.7	78.6	82.0	79.9	79.4	85.6	82.2	76.0	82.7	135.4
BAR 28.9 HG	500	81.5	76.5	87.1	93.7	93.5	92.6	91.1	86.9	78.6	71.9	83.9	79.3	75.4	82.8	84.6	86.8	138.2
(97659: N/2)	630	75.0	72.1	79.2	84.9	84.9	83.7	82.2	80.9	73.3	69.2	76.5	72.0	71.8	75.2	78.0	79.1	130.0
TAHR 68: DEG F	800	80.0	79.0	83.9	92.0	91.8	93.2	91.5	87.8	78.8	83.0	79.1	80.2	75.8	76.1	78.0	76.1	137.5
(293: DEG K)	1000	88.9	88.3	94.5	96.1	96.3	96.6	94.2	90.2	81.3	85.2	81.6	84.4	81.0	79.7	81.2	79.2	141.4
TMET 66: DEG F	1250	90.0	88.3	93.0	94.7	94.7	96.4	94.4	88.7	86.1	87.0	83.0	86.2	88.6	82.0	87.8	78.0	141.2
(292: DEG K)	1600	86.8	88.9	94.1	98.0	97.1	95.2	89.3	89.9	85.1	82.1	80.2	81.3	81.1	84.2	83.1	78.0	141.2
HACT 5.9 GHZ	2000	88.9	88.0	94.5	96.1	97.0	96.6	91.7	90.0	85.4	82.3	80.6	80.7	81.9	80.0	81.0	78.1	141.4
(.01519 KG/MS)	2500	88.9	90.0	92.0	94.1	97.6	96.1	92.2	89.0	85.1	82.2	79.9	82.0	80.9	80.1	80.8	78.0	141.1
NFA10785: RPM	3150	89.1	90.2	92.6	94.3	92.8	92.6	90.3	89.0	85.7	83.1	81.4	81.4	81.2	79.3	80.0	76.3	139.3
(1129: RAD/SEC)	4000	91.9	91.9	92.0	92.7	95.7	95.1	92.4	87.7	84.8	78.3	79.0	79.3	80.9	79.4	80.1	77.6	140.4
NFK10693: RPM	5000	92.0	93.0	93.6	93.4	95.3	94.8	92.7	86.9	86.9	80.7	81.3	80.5	84.0	79.8	80.5	75.0	140.4
(1120: RAD/SEC)	6200	92.9	91.2	91.3	91.1	93.3	92.7	89.7	85.1	81.1	79.2	76.3	77.3	77.0	76.4	77.0	75.0	138.7
NFD 06.81 RPM	8000	89.7	89.8	90.1	89.9	91.8	91.4	88.2	81.7	81.2	76.3	78.1	78.2	78.8	78.2	76.7	71.9	138.4
(1113: RAD/SEC)	10000	88.4	90.7	87.9	88.7	90.5	89.3	80.2	83.9	83.3	90.0	81.1	84.6	84.6	85.2	84.5	83.5	139.7
NO. OF BLADES 4	12500	84.2	84.3	83.2	83.9	85.4	84.7	81.7	78.5	76.4	80.7	72.6	75.5	76.2	76.8	76.2	74.2	134.6
	16000	80.6	79.5	79.0	80.7	81.4	81.1	77.9	73.5	73.0	72.0	67.1	69.3	68.5	67.3	67.7	65.8	132.1
	20000	78.1	80.9	76.2	77.9	78.1	78.2	76.5	73.9	75.1	82.4	72.4	76.4	76.2	76.6	77.3	76.0	136.2
OVERALL MEASURED		101.7	101.8	103.1	105.9	106.8	106.5	103.4	100.0	96.2	97.1	94.4	95.5	95.8	94.1	95.0	94.8	
OVERALL CALCULATED		101.0	101.2	103.5	105.5	106.4	106.0	103.0	99.7	95.0	95.8	92.8	93.7	94.8	93.4	94.2	92.8	151.8
PND8		114.1	114.2	115.9	117.6	119.2	118.4	115.4	112.4	108.0	106.8	105.2	105.5	106.5	104.8	105.3	103.2	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL, HUM, DAY)  
 PROG. DATE - MONTH 9 DAY 4 HR. 10.4  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	80.5	81.7	82.0	80.4	78.6	77.9	77.9	78.6	78.1	77.1	75.7	75.3	76.4	76.9	75.7	78.6
	63	78.7	79.0	78.9	76.7	78.0	77.3	73.4	73.1	74.0	76.1	73.8	77.5	74.5	73.9	77.8	77.8
RADIAL 100: FT:	80	71.3	71.6	72.6	70.7	69.4	68.8	67.8	67.5	70.5	69.7	68.6	67.9	68.2	68.6	69.5	70.3
(30: M)	100	68.8	67.5	69.8	68.6	65.9	67.1	65.2	65.5	66.8	68.0	65.8	66.2	66.5	67.0	67.7	68.7
VEHICLE ALT	125	67.8	66.2	68.1	66.3	65.9	66.6	65.4	66.2	67.1	65.4	66.4	66.3	67.9	68.1	71.3	70.9
CONFIG 80M IN	150	77.6	80.9	78.9	74.7	72.7	81.0	68.3	80.0	69.7	73.2	67.0	71.3	70.8	73.2	75.7	74.6
LOC PTD	200	80.7	84.7	82.2	77.8	76.0	94.1	71.5	84.1	73.9	76.9	67.1	74.1	72.6	76.1	79.1	77.8
DATE 08/09/74	250	67.6	67.7	67.3	67.0	68.6	68.1	67.2	66.0	67.2	65.0	65.3	65.1	67.9	68.0	67.7	68.0
RUN 700	315	76.7	73.7	78.0	84.0	86.9	85.2	80.3	79.6	74.3	77.4	74.9	76.2	80.7	76.9	71.8	77.9
TAPE A940	300	79.8	77.6	82.0	86.7	80.9	89.3	84.1	83.8	77.2	81.8	78.9	80.1	84.6	81.2	74.6	81.6
BAR 28.9 HG	300	81.7	74.5	84.9	83.5	93.6	92.9	92.0	88.5	80.2	69.0	84.2	78.3	71.7	83.8	85.9	86.7
(97692: N/M2)	330	74.8	72.1	78.4	85.2	85.9	84.5	83.3	80.2	73.4	69.5	76.9	72.3	70.8	76.5	78.3	78.4
TAMP 69: DEG F	800	83.7	80.1	80.9	92.8	93.2	93.4	91.2	87.8	78.9	83.8	80.1	81.6	74.9	76.3	78.9	75.8
(294: DEG K)	1000	91.2	87.3	95.1	96.0	97.1	96.6	95.4	91.3	82.1	89.2	82.6	85.9	79.9	83.3	82.3	79.1
TWET 67: DEG F	1000	9.8	87.7	94.3	94.8	94.9	96.4	91.2	87.8	88.3	86.3	81.1	87.7	87.6	81.1	87.9	76.1
(292: DEG K)	1000	89.9	90.2	95.4	99.0	97.9	94.5	91.3	88.8	80.1	82.1	83.1	81.7	80.8	84.5	84.0	78.8
HACT 5.7: GM/H2	2000	9.0	89.0	91.4	91.0	98.0	96.4	91.4	89.0	95.4	80.5	80.3	81.9	80.1	80.4	79.3	79.3
(.01572: KG/M3)	2000	88.9	88.7	92.2	92.8	98.7	97.4	91.4	89.7	87.0	81.0	81.9	82.2	81.8	79.9	83.0	77.9
NFA10785: RPM	3150	91.0	91.0	92.4	94.0	94.3	93.3	92.3	92.0	88.1	81.4	81.4	80.7	81.2	78.6	80.8	77.0
(1129: RAD/SEC)	4000	92.6	92.7	92.0	92.6	95.1	95.4	92.3	87.7	84.9	78.9	79.3	80.2	80.6	80.0	80.1	78.0
NFK10683: RPM	3000	92.1	93.3	94.3	93.1	96.1	94.5	91.7	87.3	87.7	80.7	80.0	81.9	83.9	79.6	80.9	75.3
(1118: RAD/SEC)	6300	93.9	91.0	90.3	92.0	92.2	91.9	89.5	85.1	81.1	79.3	76.3	77.3	78.0	76.5	77.3	74.1
NFC 06.8: RPM	8000	89.8	90.1	90.8	89.8	91.8	91.5	88.4	81.7	81.9	77.0	76.9	78.4	79.0	76.3	78.0	74.4
(1113: RAD/SEC)	10000	88.8	90.6	87.9	88.0	89.8	90.0	87.0	83.4	83.7	89.8	81.1	85.1	83.7	85.1	84.8	83.8
NO. OF BLADES 44	12000	84.2	84.3	83.2	84.2	85.3	84.7	81.5	78.1	78.6	81.4	72.5	75.8	76.1	76.6	76.3	74.2
	16000	80.9	79.8	78.7	80.9	82.3	80.0	77.9	74.8	78.2	72.1	67.1	69.2	69.8	69.9	67.5	66.7
	20000	77.6	80.7	76.1	77.7	77.9	78.6	77.3	74.1	78.0	81.4	72.1	76.5	74.1	77.5	76.9	76.2
OVERALL MEASURED		102.1	101.1	104.0	106.0	107.1	106.4	103.5	100.7	98.2	96.4	94.1	95.6	95.7	94.2	95.9	95.2
OVERALL CALCULATED		101.9	101.4	103.9	105.4	106.9	106.1	103.2	100.1	98.4	95.4	93.3	94.4	94.3	93.3	94.6	92.8
PNDH		115.0	114.6	116.2	117.4	119.9	119.0	115.5	113.7	109.3	106.0	105.3	109.8	106.4	104.8	105.5	103.4

MODEL SOUND PRESSURE LEVELS (99, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	79.5	79.4	80.7	78.7	77.5	75.9	75.9	77.5	77.6	75.0	72.8	73.1	74.3	74.9	74.9	77.8	126.1
63	76.7	77.9	78.2	75.6	78.7	76.3	75.4	73.7	74.1	74.2	72.0	72.0	76.0	76.0	75.7	77.5	125.2
RADIAL 100: FT: (30: M)	83	68.2	68.3	68.8	69.3	68.5	65.7	64.9	64.3	71.7	63.9	64.9	62.8	63.3	64.7	65.7	116.6
VEHICLE AIT	100	66.8	65.6	66.2	66.9	67.6	65.3	64.3	63.6	70.7	64.9	62.9	63.9	63.9	65.3	69.9	116.3
CONFIG BHM IN	125	66.9	65.2	68.1	65.1	69.2	66.6	66.3	63.9	72.3	64.2	64.4	64.5	67.1	65.3	69.9	117.3
LOC PTD	160	77.9	73.8	79.3	71.6	70.6	73.2	80.0	76.0	77.6	69.8	72.9	78.4	81.8	73.9	75.9	126.8
DATE 08/09/74	200	64.8	64.7	65.0	65.7	66.7	66.2	66.1	64.9	70.8	63.3	64.0	64.0	65.9	65.2	64.8	116.2
RUN 701	250	68.9	69.7	70.0	67.7	68.6	69.5	69.3	67.7	70.1	67.1	64.0	64.0	66.8	67.1	67.7	117.9
TAPE AY40	315	80.0	82.7	84.3	79.7	79.7	84.1	84.4	82.8	82.6	81.9	77.3	76.1	79.9	81.0	82.1	131.3
BAR 28.9 HG (97692: N/M2)	300	79.4	77.8	74.9	76.8	82.7	82.2	82.9	80.8	77.7	77.4	76.2	80.1	79.8	82.0	71.8	130.0
TAMB 69: DEG F	300	90.8	89.6	84.1	87.5	93.8	93.2	94.2	92.5	88.9	89.0	88.1	92.1	90.7	94.1	80.8	141.4
(294: DEG K)	800	95.9	97.6	92.3	95.1	103.2	102.9	105.7	101.1	101.2	97.2	99.2	96.2	96.0	86.5	87.2	150.3
THET 67: DEG F	1000	104.9	105.8	105.0	110.9	106.2	107.2	108.1	97.1	97.2	93.9	92.1	97.0	96.3	89.8	90.9	153.4
(292: DEG K)	1250	108.2	108.0	106.5	102.6	103.3	103.5	100.1	95.1	95.2	91.1	94.4	91.2	92.0	87.2	87.3	149.8
HACT 15.72 G4/M3 (.01572 KG/M3)	1000	95.7	95.9	103.1	101.1	100.0	109.2	104.3	101.9	99.2	95.0	90.4	94.3	93.7	93.0	87.8	132.5
NFA 9.06: RPM (.485: M/D/SEC)	1000	92.8	94.2	97.2	102.1	105.1	106.4	101.2	98.8	93.9	88.3	89.2	87.3	89.1	92.3	83.9	149.7
NFK 93.7: RPM (.975: MAU/SEC)	2000	92.9	96.3	96.5	100.1	103.3	105.3	101.5	100.2	95.4	89.6	89.3	88.3	93.1	97.5	85.2	149.1
NFD 06.8: RPM (1113: RAD/SEC)	2000	93.6	93.6	94.0	95.2	97.8	99.1	96.4	93.9	89.1	84.8	83.0	81.2	84.9	80.3	82.0	143.0
NO. OF BLADES	3150	93.1	93.2	93.2	94.4	97.4	97.4	95.1	90.1	85.4	81.5	81.4	81.8	80.3	81.1	81.0	144.7
OVERALL MEASURED	4000	93.0	93.5	93.2	94.6	97.4	97.4	95.3	91.8	87.6	81.2	82.2	80.2	80.9	80.1	79.8	143.5
OVERALL CALCULATED	5000	94.0	96.0	95.7	93.2	96.0	96.5	94.7	90.3	89.4	83.1	81.4	80.5	81.3	78.6	81.2	142.4
PNDB	6000	95.1	94.2	93.3	94.3	94.9	96.5	94.3	90.1	84.2	81.5	78.7	79.3	79.1	76.5	76.0	142.0
	8000	92.0	93.4	92.4	92.6	94.0	94.4	92.1	87.0	84.1	79.8	77.3	76.9	77.0	76.4	76.0	140.8
	10000	92.6	91.9	89.9	90.8	91.7	92.9	90.2	85.4	82.8	86.0	77.2	79.9	79.8	81.2	80.9	140.3
	12000	87.3	87.2	85.4	86.3	89.0	89.7	87.5	82.0	79.2	73.7	70.4	69.4	69.1	68.4	69.4	137.7
	14000	83.4	83.8	81.1	82.9	86.6	87.1	84.9	78.5	74.5	75.1	67.9	69.0	70.7	70.1	69.9	137.0
	16000	79.7	82.8	78.3	79.1	86.1	83.4	81.2	78.0	77.9	64.3	74.4	78.3	78.1	79.4	79.1	139.6
	18000	107.7	108.1	109.4	110.0	105.0	113.2	112.0	108.7	105.1	101.8	102.4	101.2	102.9	100.3	97.0	159.7
	20000	108.4	108.3	109.4	110.4	113.3	114.6	112.8	109.3	100.2	102.3	102.3	101.3	102.7	101.5	96.5	159.7
	22000	118.8	119.2	119.1	120.4	123.8	124.9	122.1	119.6	115.6	111.1	111.0	109.7	112.4	110.4	107.0	107.3

REPRODUCIBILITY OF THE  
 OVERALL DATA IS POOR

	0.0°	10.1°	20.1°	30.1°	40.1°	50.1°	60.1°	70.1°	80.1°	90.1°	100.1°	110.1°	120.1°	130.1°	140.1°	150.1°	PWL	
FREQ:	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	80.8	81.6	82.0	80.6	78.7	77.9	78.0	78.8	77.8	76.8	74.8	74.9	75.8	76.1	74.8	77.8	127.4	
63	78.0	77.8	78.9	77.1	76.6	77.3	73.1	72.9	74.1	76.1	73.2	76.2	75.0	74.4	77.0	77.8	125.5	
RADIAL 100: FT. (30: M)	80	72.3	72.2	72.9	72.7	69.2	49.8	68.0	67.5	69.3	69.6	68.4	66.9	67.3	68.7	69.6	69.6	119.1
100	71.6	67.7	70.3	69.9	66.7	68.3	65.2	65.6	66.9	65.2	66.2	66.2	66.2	66.7	67.0	67.9	69.6	117.0
VEHICLE ATT	125	71.9	66.1	66.4	67.9	65.9	66.3	65.5	67.3	66.2	65.4	66.3	66.2	68.2	68.3	71.2	71.2	117.4
CONFIG	160	78.9	81.5	79.1	74.0	73.5	81.0	68.0	79.9	68.7	74.2	67.0	70.1	69.6	74.3	75.9	74.9	125.5
LOC PTD	200	80.9	84.8	82.2	77.7	76.6	84.4	71.1	83.7	71.1	77.0	68.3	73.0	71.7	75.4	79.0	78.1	128.6
DATE 08/09/74	250	68.7	66.6	66.9	67.1	67.9	68.4	67.1	66.9	67.0	64.3	65.2	64.9	68.0	68.1	67.0	68.0	117.0
RUN 702	315	75.7	74.0	77.2	83.7	86.7	85.3	81.1	80.1	74.1	77.4	74.3	76.3	81.0	77.2	71.9	78.0	130.0
TAPE	400	79.7	77.6	81.7	87.9	90.7	89.4	85.0	84.0	77.6	82.0	78.2	80.1	84.7	81.1	74.7	82.1	134.8
BAR 28.9 HG	500	82.7	75.5	84.0	92.6	93.6	92.2	91.0	88.1	76.9	70.0	83.9	76.7	70.8	84.1	84.9	84.8	137.8
(97692: N/M2)	630	76.1	72.1	77.0	84.9	85.1	84.6	82.5	80.2	72.0	69.4	76.3	71.4	70.9	77.4	78.0	78.1	130.1
TAMR 68: DEG F	800	84.6	80.0	82.9	92.8	93.9	93.5	92.2	89.9	78.9	84.1	81.7	81.3	75.0	74.4	77.8	75.7	138.5
(293: DEG K)	1000	91.4	85.2	94.4	96.0	98.0	96.8	95.6	91.5	81.9	86.4	83.3	85.3	79.3	78.8	80.4	78.1	142.1
TWET 66: DEG F	1250	90.1	89.4	94.2	94.6	95.7	98.6	94.1	90.9	80.9	88.2	82.4	87.0	86.2	87.9	76.8	76.8	142.3
(292: DEG K)	1500	90.0	88.4	96.4	97.1	96.9	93.5	89.3	87.1	83.1	84.3	82.4	81.1	85.5	82.1	79.4	79.4	141.0
HACT 5:60 G/M	2000	90.0	89.0	93.1	92.9	97.3	96.6	93.5	90.1	80.3	79.4	80.6	81.5	81.9	81.4	81.3	79.1	142.1
(.01550 KG/M3)	2500	87.9	88.7	91.2	92.7	98.3	98.1	96.3	90.1	85.0	80.3	82.3	82.2	81.9	80.1	78.0	78.8	142.1
NFA10789: RPM	3150	90.1	89.8	91.3	92.3	94.2	92.5	90.6	89.3	83.9	81.3	61.2	81.3	80.3	78.7	80.5	75.9	139.0
(1130: RAD/SEC)	4000	91.7	91.9	92.1	91.8	94.7	95.0	93.4	87.8	84.7	78.0	79.3	80.0	81.6	80.4	79.8	77.7	140.3
NFK10697: RPM	9000	91.9	93.1	93.5	92.3	95.2	94.7	91.6	87.1	87.4	80.4	80.9	81.4	83.4	79.8	80.3	75.0	140.3
(1120: RAD/SEC)	6300	93.2	91.2	90.5	91.5	92.2	91.4	89.7	85.2	81.3	79.3	76.5	76.3	78.1	76.6	76.9	74.2	138.2
NFD 06: RPM	8000	89.8	89.8	90.2	89.8	91.8	91.4	88.7	84.1	81.7	77.2	77.0	78.3	78.9	77.5	77.5	75.9	138.1
(1113: RAD/SEC)	10000	88.6	90.5	86.8	88.6	89.0	89.2	85.9	83.6	82.8	90.3	80.4	84.2	84.1	85.2	84.6	83.7	139.4
NO. OF BLADES	12000	84.0	84.2	83.3	84.3	85.0	84.3	81.8	76.1	77.1	81.4	72.0	75.6	76.5	76.6	75.4	74.1	134.0
20000	80.8	79.7	78.7	80.8	81.4	80.8	80.8	78.2	74.0	74.9	71.9	67.5	69.8	69.6	67.0	68.0	64.7	132.3
28000	77.9	79.9	76.2	77.8	77.7	78.1	76.5	74.1	70.0	70.0	62.2	72.4	76.1	76.1	77.4	76.9	75.9	136.2
OVERALL MEASURED		102.1	101.6	103.8	105.9	96.6	106.2	103.3	101.3	97.2	97.2	94.5	95.1	94.9	94.3	95.1	94.8	151.9
OVERALL CALCULATED		101.6	101.1	103.5	104.7	106.8	106.3	103.3	100.4	96.0	96.0	93.3	94.3	94.1	93.6	94.2	92.3	151.9
PRD:		114.5	114.2	115.7	116.9	119.7	119.2	115.9	112.6	109.8	106.3	105.4	105.8	106.1	105.2	105.4	103.2	



MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
50	79.3	79.8	82.1	79.9	79.4	78.2	77.1	77.6	76.6	74.9	73.7	75.0	78.4	79.2	76.7	78.5	127.4
63	74.7	74.0	76.3	74.7	78.7	78.2	72.4	73.1	71.7	73.3	70.8	71.2	73.5	75.2	74.0	74.8	124.2
RADIA 100: FT, (30: M)	80	68.3	69.2	69.6	70.6	71.2	66.7	65.7	64.3	65.6	64.9	64.5	62.6	63.1	63.9	64.3	65.7
VEHICLE ATT	100	66.6	64.6	66.6	68.6	69.8	67.1	66.0	63.6	65.9	65.2	64.1	66.1	65.9	67.3	66.9	64.9
CONFIG REM IN	125	68.0	64.9	65.4	67.6	78.2	58.6	68.3	61.9	66.4	64.6	64.6	67.3	68.2	66.6	67.0	119.9
LOC PTD	160	77.4	74.6	76.2	71.6	77.8	73.1	76.0	66.0	73.7	74.2	72.8	76.9	78.9	71.1	74.5	124.9
DATE 08/09/74	200	64.7	63.7	64.2	66.0	75.7	66.2	66.3	63.0	64.0	61.3	62.4	63.0	63.5	64.2	63.7	116.6
RUN 703	250	69.7	69.7	71.3	70.1	71.7	69.3	67.1	66.1	65.6	62.3	62.2	63.0	64.7	65.2	64.7	116.4
TAPE AY40	315	79.9	80.9	83.3	80.8	78.7	80.0	74.0	76.8	73.8	76.0	68.0	70.0	69.7	72.4	71.8	126.0
BAR 28.2 HG (97692: N/M2)	400	79.4	80.8	77.9	80.7	84.9	86.9	81.0	77.6	80.6	76.8	75.2	81.1	81.6	78.3	76.9	131.1
TAMP 68: DEG F (293: DEG K)	500	84.6	86.7	84.1	87.8	92.5	94.9	89.1	86.6	86.9	83.1	81.0	88.2	88.5	87.0	84.8	138.7
TWET 66: DEG F (292: DEG K)	630	88.9	92.9	94.2	98.4	103.9	108.4	101.5	99.1	96.1	90.3	89.3	94.0	94.1	98.6	98.1	149.7
MACT 15.60 G/7.3 (.01560 KG/MS)	800	96.7	99.9	95.9	105.9	108.8	103.4	99.9	95.1	92.1	93.8	93.8	99.9	99.9	96.9	95.9	150.4
NFA 9116: RPM (954: RAD/SEC)	1000	96.1	97.8	103.8	105.9	104.0	104.4	100.8	101.1	101.4	93.8	98.8	91.8	101.8	92.4	83.9	148.6
NFK 90: RPM (946: RAD/SEC)	1200	96.0	96.9	103.0	106.2	110.8	113.2	111.0	105.2	101.2	98.0	99.0	87.4	96.0	94.3	92.8	95.0
NFD 10628: RPM (1113: RAD/SEC)	1500	93.8	92.0	105.4	100.5	102.9	107.3	103.5	105.8	105.2	92.5	90.7	85.0	91.0	90.3	98.2	88.2
NO. OF BLADES 4	2000	92.1	92.3	94.3	98.4	99.0	98.5	94.5	91.1	88.1	87.6	85.6	84.5	85.8	87.4	83.3	83.0
	2500	91.9	93.9	93.9	95.6	99.7	101.2	99.1	94.7	87.8	86.1	83.0	84.7	86.6	83.2	83.9	85.7
	3150	92.0	93.2	93.2	94.6	99.3	99.7	97.3	94.0	89.4	89.2	82.4	81.2	85.8	80.3	84.1	78.8
	4000	96.9	94.6	94.9	94.0	96.9	101.4	98.3	91.9	87.7	81.2	80.3	79.9	80.9	79.1	77.6	77.7
	5000	95.0	96.0	95.7	95.4	97.7	97.7	94.6	89.5	86.4	85.4	81.7	79.6	81.2	78.8	81.1	77.3
	6300	95.9	95.8	93.3	94.2	93.8	95.5	94.5	89.4	84.3	83.2	79.5	78.2	78.1	77.3	79.2	77.8
	8000	93.0	93.7	93.3	91.9	95.0	94.4	92.4	87.1	83.6	80.3	77.3	77.4	76.9	77.4	76.8	76.0
	10000	91.5	91.5	90.1	90.7	92.4	93.9	90.1	85.9	81.9	84.2	77.1	78.9	78.7	79.9	78.6	77.9
	12000	88.3	87.4	86.4	86.2	88.0	89.7	87.8	81.3	77.5	73.4	71.3	70.7	71.0	67.4	70.0	68.5
	15000	84.5	83.9	82.0	82.6	85.6	88.0	85.9	78.6	75.7	77.9	71.9	74.1	74.4	73.3	73.9	72.8
	20000	79.9	83.0	78.3	79.1	82.7	84.4	84.5	76.9	76.8	83.1	75.4	78.0	77.9	78.4	78.1	77.2
OVERALL MEASURED		105.9	106.0	109.1	112.1	114.8	115.2	113.4	109.1	105.2	102.4	101.1	102.1	104.0	103.5	102.2	100.8
OVERALL CALCULATED		105.7	106.5	110.0	112.2	114.9	116.2	113.3	109.1	105.7	102.4	101.7	101.8	103.9	103.6	101.9	100.7
PROB		118.6	118.2	119.1	120.9	124.4	126.0	123.3	118.6	114.9	112.0	111.2	110.3	112.3	110.9	110.0	108.5

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PNOG. DATE - MONTH 9 DAY 4 HR. 19.5

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RADIAL 100: FT.	50	79.8	80.5	82.0	79.6	79.9	79.0	77.3	77.8	77.6	76.1	74.1	74.2	76.7	77.1	76.6	77.6	127.2
(30: M)	63	76.9	75.9	76.9	75.1	79.0	79.1	74.4	73.1	73.1	74.1	74.0	73.4	74.6	75.2	74.7	73.7	125.1
VEHICLE ATT	80	73.3	73.6	73.6	72.4	75.3	73.0	73.8	72.6	72.7	72.9	73.5	70.6	69.6	70.7	70.6	70.7	122.4
CONFIG BEM IN	100	72.8	71.6	72.9	70.6	75.9	71.1	71.0	69.6	70.7	69.9	67.9	67.2	68.8	71.0	72.0	70.7	120.7
LOC PTD	125	72.1	72.2	70.2	70.2	76.2	71.4	71.3	67.8	66.9	67.2	67.2	68.4	70.1	69.3	71.0	69.2	120.2
DATE 08/09/74	160	75.6	72.8	75.2	71.9	77.5	75.3	75.1	65.6	70.0	75.2	70.9	77.2	78.9	74.0	74.6	75.6	124.9
RUN 704	200	72.7	72.6	73.0	78.0	78.7	70.4	69.4	66.7	65.8	66.0	66.9	65.1	65.7	66.2	66.0	66.7	120.0
TAPE A740	250	79.8	79.6	79.3	78.0	79.7	75.4	74.2	72.9	72.1	69.4	69.2	67.2	68.7	70.4	69.8	69.8	123.9
BAR 28.9 HG	315	80.9	79.9	79.9	77.7	77.6	76.2	76.7	77.7	77.7	76.1	69.8	69.2	73.2	74.9	75.3	75.1	126.1
(976921 N/M2)	400	79.4	78.4	78.8	77.6	81.9	82.0	78.0	78.8	76.9	76.0	72.1	73.9	77.8	74.2	73.7	71.9	127.7
TANK 68: DEG F	500	84.4	83.5	83.0	81.6	89.5	90.2	86.2	85.8	82.8	82.2	77.0	80.8	83.8	81.2	79.9	78.9	134.8
(293: DEG K)	630	89.0	90.0	90.6	94.9	99.3	101.0	98.4	96.3	85.9	87.7	73.4	86.2	89.2	92.7	92.4	91.2	145.1
TWET 66: DEG F	800	102.7	99.0	103.3	107.8	108.1	104.1	99.5	104.0	96.0	96.2	89.4	93.1	97.2	96.9	89.7		152.0
(292: DEG K)	1000	98.9	97.8	103.6	108.1	105.2	109.6	104.3	109.9	99.4	98.6	96.3	98.3	101.0	95.6	86.2	97.0	151.5
HACT 15.60 G/M3	1250	96.9	95.7	102.1	104.7	107.7	110.4	107.1	104.7	99.0	98.1	94.1	93.2	96.7	95.5	92.3	91.0	154.3
(.01560 KG/M3)	1500	95.0	95.9	107.9	103.0	107.7	108.3	104.3	100.1	96.2	94.8	93.2	93.2	92.0	89.3	84.3	88.2	152.0
NFA 9186: RPM	2000	93.1	93.2	97.3	98.0	102.8	102.3	96.3	96.0	92.1	91.6	87.6	86.5	87.2	86.6	85.1	82.2	146.0
(962: RAD/SEC)	2500	92.8	94.7	94.9	95.7	102.9	102.5	96.4	92.9	91.8	85.3	83.1	88.2	86.7	85.0	83.6	82.9	140.4
NFK 9.07: RPM	3150	93.9	93.8	94.5	94.9	100.0	100.7	98.4	95.0	90.9	89.3	82.5	82.2	87.2	82.4	84.2	81.3	145.2
(.952: RAD/SEC)	4000	96.7	95.7	96.2	95.0	99.5	102.3	100.1	92.0	89.1	81.8	83.1	81.0	80.9	79.0	80.0	81.7	146.1
NFD 10628: RPM	5000	94.1	97.3	96.6	94.3	98.3	98.8	96.5	89.1	89.1	84.6	81.6	80.2	81.9	79.4	81.4	77.0	143.9
(1113: RAD/SEC)	6300	97.0	96.8	94.5	93.1	95.8	98.5	95.7	89.3	84.0	81.3	78.2	79.6	78.8	76.3	79.0	77.1	143.2
NO. OF BLADES 4	8000	93.8	94.8	94.3	92.9	95.6	95.3	93.1	86.7	83.0	80.2	77.9	77.2	77.9	77.4	77.8	76.8	141.9
OVERALL MEASURED	10000	92.5	92.8	91.2	92.0	93.4	93.2	91.2	84.7	81.5	84.8	76.9	79.1	78.4	80.3	79.5	78.8	140.9
OVERALL CALCULATED	12000	89.3	89.3	87.6	87.5	90.0	91.4	86.4	81.1	77.3	73.9	71.7	71.4	71.3	71.7	71.4	72.0	138.9
PNOG	15000	85.4	85.6	83.2	84.6	88.6	88.3	86.2	76.8	74.9	77.1	72.2	72.9	73.6	76.0	72.7	73.9	136.5
	20000	81.0	82.7	79.4	80.1	86.1	85.4	84.4	76.7	76.9	83.5	75.4	78.4	77.7	80.4	78.7	77.7	140.2
	25000	107.7	106.9	110.0	112.2	104.9	115.2	112.2	109.8	105.1	103.5	101.4	102.1	103.7	102.2	101.1	100.8	
	30000	107.8	107.0	110.4	111.6	115.2	115.4	112.4	109.7	105.4	104.0	101.1	101.9	104.4	102.3	101.1	100.2	140.1
	35000	119.3	119.1	120.1	121.0	125.4	125.8	122.7	119.8	115.5	112.8	110.3	110.9	112.7	110.3	111.0	109.0	

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. 9AY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
FREQ. (C)	(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
RAIAL 100: FT.	50	79.4	80.7	81.1	79.5	78.7	78.0	76.8	77.8	77.6	75.0	73.8	75.4	76.1	74.8	77.6	126.9
( 39: M)	63	78.6	77.8	77.9	77.8	77.6	79.3	74.4	73.7	73.6	75.0	74.3	74.8	76.7	76.4	75.8	125.6
VEHICLE ATT	80	73.3	73.6	73.8	73.7	73.6	72.8	73.6	73.5	73.4	73.9	73.8	70.8	69.3	71.1	71.4	122.6
CONFIG SCH IN	100	72.6	70.9	72.2	70.7	72.8	71.3	71.0	69.8	69.8	69.2	67.1	68.9	68.6	70.0	71.0	119.9
L/C PTO	125	7.9	7.9	7.2	7.4	7.1	7.3	7.6	57.8	57.3	68.3	65.7	68.1	70.1	69.6	70.2	119.2
DATE 08/09/74	150	71.8	78.6	78.2	74.0	73.7	74.4	78.3	77.9	76.9	67.2	69.2	78.1	78.8	77.2	74.0	126.2
RUN 705	200	72.6	73.0	73.0	71.0	71.9	70.5	71.1	68.7	67.8	66.0	65.2	67.0	67.9	68.4	67.0	119.0
TAPP A940	250	78.7	78.6	79.0	77.1	76.7	75.4	76.5	72.9	70.7	69.4	69.0	68.2	69.7	70.3	70.1	123.5
BAR 28.7 HG	315	78.9	79.7	81.9	82.7	84.0	81.4	77.2	78.0	79.0	79.3	78.3	79.3	75.0	78.3	79.0	129.7
(97692: N/M2)	400	78.8	76.8	81.1	81.7	85.8	86.9	78.2	79.6	74.9	74.0	74.8	79.1	74.5	79.0	73.9	130.4
TAMB 68: DEG F	500	90.5	86.7	92.1	93.6	98.1	100.1	89.2	92.6	88.7	86.0	88.0	91.8	84.7	91.0	83.6	143.0
(293: DEG K)	600	86.7	80.7	88.2	111.7	107.7	108.4	108.2	104.7	98.1	96.6	91.4	95.0	96.0	96.5	83.9	151.3
THET 66: DEG F	1000	195.1	197.1	195.5	111.6	103.2	104.3	106.4	100.0	94.8	192.6	95.3	91.0	88.2	87.5	83.8	148.5
(292: DEG K)	1250	98.0	97.1	102.0	100.8	105.0	104.4	102.2	98.6	93.2	88.1	92.2	86.0	80.8	87.0	82.7	149.1
HACT 15.60 G4/M3	1500	95.1	95.8	99.3	99.9	103.1	104.6	100.4	97.2	93.0	92.3	91.2	94.0	88.1	89.6	83.1	148.3
(.81560 KG/M3)	2000	94.3	94.2	96.2	98.2	104.1	104.3	98.7	96.3	91.1	89.4	83.2	82.4	85.9	82.4	84.2	147.7
NFA 9555: RPM	2500	94.0	95.8	95.2	96.9	100.9	101.4	97.2	93.8	91.3	87.3	85.8	84.2	84.9	82.9	83.6	145.4
(1000: RAD/SEC)	3000	96.4	98.6	95.9	95.7	98.7	101.3	98.1	90.8	86.9	83.4	81.0	80.9	80.6	80.1	78.9	142.3
NFK (992: RAD/SEC)	4000	93.2	96.0	96.3	93.1	97.0	95.6	93.4	88.4	87.1	82.4	80.3	79.3	80.2	78.6	80.1	141.0
NFD 10628: RPM	5000	96.0	95.0	94.2	93.7	96.1	97.4	94.5	86.3	83.0	80.5	78.3	78.2	78.2	76.4	77.0	142.4
(1113: RAD/SEC)	6000	91.7	93.6	93.2	91.8	94.7	95.0	92.3	85.7	82.8	78.3	76.3	77.0	76.6	76.2	77.0	141.1
NO. OF BLADES 44	12000	87.1	88.2	86.6	87.3	89.3	90.7	86.7	80.1	75.2	72.5	69.7	71.4	72.0	71.8	70.5	140.6
	16000	84.5	83.8	81.8	82.8	86.5	87.2	84.0	76.5	72.7	73.9	67.8	71.9	72.7	74.0	71.6	138.0
	20000	80.7	83.0	79.1	79.9	83.7	84.5	81.5	75.8	75.2	84.4	74.3	79.1	78.7	80.4	79.1	136.8
OVERALL MEASURED		108.9	107.6	111.3	113.0	104.7	114.5	111.3	108.7	104.8	104.4	101.0	99.7	101.7	100.1	96.9	139.4
OVERALL CALCULATED		109.2	107.8	111.9	113.3	114.8	114.8	111.8	109.2	105.5	104.2	100.5	99.8	101.9	99.8	95.8	159.7
PMDR		119.4	119.0	120.7	122.4	124.4	124.8	121.0	117.8	114.6	112.8	109.7	108.0	110.5	109.0	107.1	108.3

	FREQ.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
	50	81.5	82.4	83.1	80.6	79.7	78.9	78.1	79.5	79.6	77.7	76.9	76.4	76.5	77.2	76.6	78.7	128.4
	63	77.7	77.9	78.9	78.1	78.9	78.1	75.1	72.9	73.7	76.4	75.3	75.4	74.8	74.2	77.8	78.1	126.1
RADIAL 100: FT.	75	73.6	74.3	74.6	72.4	72.6	72.0	71.6	71.2	73.0	73.5	72.5	68.6	68.6	71.1	71.7	70.7	121.8
( 30: M)	100	72.6	70.5	72.2	71.5	69.5	70.0	69.0	68.5	68.9	68.0	68.2	67.9	69.5	69.1	69.7	70.7	119.2
VEHICLE AIT	125	70.9	67.8	69.5	68.9	69.9	69.2	68.2	67.9	68.6	67.1	67.3	68.4	70.2	70.2	72.0	72.9	119.2
CONFIG RM IN	150	76.6	82.8	81.1	77.8	73.5	80.9	74.0	79.5	75.6	77.8	72.8	74.2	72.4	76.4	77.0	75.6	127.1
LOC PTD	200	79.7	86.0	84.0	79.8	76.6	84.4	77.1	81.6	78.8	80.3	75.1	77.4	73.5	77.5	79.1	77.1	129.7
DATE 08/09/74	250	71.7	72.7	72.9	72.8	72.6	72.3	71.4	69.6	68.0	67.4	68.1	68.2	70.8	72.5	70.8	71.0	120.7
RUN 707	315	81.7	83.9	84.3	90.1	92.7	93.0	89.5	88.7	78.7	82.0	77.4	83.1	88.8	86.4	77.1	83.9	137.8
TAPE	300	84.6	87.6	87.2	93.7	95.6	95.9	93.0	91.5	81.6	85.2	79.9	85.9	91.8	90.0	79.7	87.0	140.9
BAR 28.9 HG	300	88.9	91.5	96.8	102.0	100.8	100.1	97.2	95.5	89.9	82.0	92.2	81.2	85.5	88.9	91.7	95.0	145.8
(97692: N/M2)	350	83.8	88.3	93.2	93.0	91.9	93.2	89.6	86.8	80.6	81.5	88.4	77.2	81.2	80.3	87.1	86.2	138.7
TAMP 88: DEG F	400	89.9	91.7	95.0	97.5	96.8	99.1	96.4	91.8	88.9	88.1	91.8	86.1	84.0	79.5	89.2	81.8	143.4
(293: DEG K)	1000	93.2	91.0	93.4	98.4	98.9	100.2	97.6	92.9	89.9	88.4	88.3	87.5	81.1	81.4	84.2	83.0	144.2
TWET 66: DEG F	1250	88.8	88.6	93.2	92.9	93.9	96.1	93.5	88.9	87.8	88.2	82.4	87.1	90.8	85.5	86.9	76.9	141.1
(292: DEG K)	1500	92.1	91.9	97.4	98.3	99.9	96.2	89.6	88.9	85.8	85.4	83.5	79.5	81.8	81.5	85.0	77.3	142.7
HACT 15.60 GM/M3	2000	91.2	91.2	94.4	96.4	101.0	97.2	91.6	90.3	84.9	83.2	82.6	79.5	80.2	79.6	80.4	78.4	142.9
(1560: KG/M3)	2500	90.0	90.7	92.1	94.7	100.7	98.0	91.0	88.7	85.9	82.3	80.9	79.0	82.6	80.4	79.8	80.8	142.7
NFA 1022: RPM	3150	91.0	90.0	93.4	93.8	94.0	93.3	92.3	90.9	88.0	83.1	80.3	81.3	81.8	79.5	81.1	77.0	140.1
(1022: RAD/SEC)	4000	92.7	92.7	94.3	93.8	95.7	97.3	92.1	88.7	84.9	79.2	79.0	80.0	79.7	80.2	78.8	79.1	141.4
NFK 1060: RPM	5000	91.4	91.1	94.5	93.0	96.0	94.4	91.7	87.3	86.2	81.6	80.6	80.4	81.9	79.6	81.5	75.1	140.6
(1013: RAD/SEC)	6500	92.9	91.2	91.6	92.4	94.2	92.5	90.7	85.8	81.3	80.3	76.3	77.5	77.3	76.5	77.2	75.0	139.3
NFD 1062B: RPM	8000	89.8	90.1	91.1	90.2	91.9	91.1	88.2	83.9	81.6	77.4	77.1	77.0	78.8	78.5	77.8	73.9	138.2
(1113: RAD/SEC)	10000	88.6	89.5	88.1	89.6	90.2	89.9	87.0	83.4	82.6	89.9	80.8	84.2	83.4	85.0	84.9	83.6	139.8
NO. OF BLADES 44	12500	84.2	83.8	83.3	85.4	87.1	85.4	82.5	75.3	77.2	80.6	72.6	75.7	75.1	75.6	75.5	74.1	135.4
	16000	80.6	79.6	79.2	81.6	82.5	80.6	78.9	74.8	74.9	71.8	67.1	69.1	69.7	68.9	69.0	65.6	132.7
	20000	78.0	80.7	76.3	78.1	79.6	79.2	77.0	75.1	76.9	82.4	72.4	77.1	76.1	77.5	76.9	76.2	136.7
OVERALL MEASURED		102.8	103.7	106.4	108.1	99.0	108.9	105.4	103.1	98.8	98.4	98.3	96.4	97.6	96.9	98.1	97.8	
OVERALL CALC. LAIED		102.6	103.0	105.9	107.8	109.3	108.6	105.1	102.2	96.2	97.6	97.7	95.5	97.6	96.3	97.3	97.7	154.1
PRDP		115.6	116.0	116.1	118.5	121.8	120.6	116.4	114.2	110.9	108.2	106.9	106.2	107.5	106.2	107.0	107.1	

REPRODUCIBILITY OF THIS ORIGINAL PAPER IS POOR

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL	
50	80.0	80.9	80.9	79.3	78.5	76.0	76.0	78.1	76.9	76.9	74.2	74.1	75.9	75.0	74.1	77.2	126.6	
63	77.9	73.2	78.2	77.6	78.0	76.2	75.1	74.3	72.0	76.3	74.1	74.1	77.0	75.9	74.3	76.4	125.0	
83	73.6	74.1	73.9	74.0	75.5	71.8	74.5	74.7	73.7	75.7	73.7	71.7	68.8	70.9	70.8	70.7	123.2	
100	73.6	71.0	72.8	71.1	74.6	69.7	60.9	78.9	49.7	70.1	67.0	67.2	68.8	69.9	71.3	70.4	120.2	
125	73.2	72.3	71.2	69.7	74.0	49.4	69.4	69.5	67.1	67.4	65.3	67.7	69.0	68.4	70.6	68.7	119.2	
160	71.8	74.2	77.0	73.2	78.8	71.2	80.9	78.2	76.1	68.0	67.8	77.1	77.2	77.3	74.2	75.3	126.4	
200	73.8	72.4	73.0	71.2	73.1	69.0	70.2	69.0	68.0	66.2	64.9	66.3	66.8	68.2	66.1	67.3	118.9	
250	78.9	79.1	79.3	77.5	76.9	74.3	74.1	73.0	71.2	70.0	68.1	68.3	68.9	70.2	69.5	70.4	123.2	
315	79.9	80.2	81.9	82.5	83.2	77.2	74.4	79.4	80.1	81.0	77.9	76.4	73.0	78.9	79.1	79.1	129.5	
360	79.0	77.2	79.1	80.4	83.1	83.9	74.4	77.9	73.0	74.9	73.0	78.1	73.6	76.2	72.3	73.1	128.1	
BAR 28.9 HG	200	89.9	82.9	89.9	92.1	95.6	98.0	85.9	91.2	84.9	87.1	85.7	91.8	87.8	79.2	82.1	141.0	
(97692: N/M2)	230	92.1	95.4	96.3	96.6	105.2	106.2	101.5	101.3	99.2	96.3	90.0	92.4	98.2	83.2	85.8	150.0	
TANS 68: DEG F	300	107.0	103.6	110.0	113.3	110.9	108.0	107.1	105.3	99.2	104.1	94.0	96.1	95.9	96.6	85.2	95.5	155.9
(293: DEG K)	1000	97.0	95.3	94.2	102.7	106.4	105.1	102.7	102.2	92.4	95.1	96.4	92.5	87.4	89.0	85.6	91.7	150.3
TWET 66: DEG F	1250	97.8	98.4	101.4	103.4	106.2	105.0	103.6	100.2	97.1	91.0	93.2	86.1	89.3	88.1	83.1	86.2	150.4
(292: DEG K)	1900	96.3	95.5	99.2	102.4	104.2	104.0	101.3	97.1	94.3	95.9	91.6	87.5	90.1	91.2	88.3	87.4	148.9
HACT 5160 GM/H	100	94.3	95.4	95.5	97.6	101.2	101.1	95.8	95.7	89.5	91.3	85.5	81.4	87.3	81.3	84.3	84.4	145.0
(.01360 KG/H3)	2500	95.0	94.3	94.9	96.5	101.2	101.1	95.8	94.4	90.1	88.3	85.0	85.2	84.1	82.9	84.4	82.4	144.9
NFA 9555: RPM	3150	94.1	93.3	94.3	96.5	96.3	96.4	94.3	91.6	86.6	86.2	81.4	79.6	81.1	78.5	80.4	78.5	142.1
(1000: RAD/SEC)	4100	97.1	96.4	96.0	96.5	99.2	99.7	96.4	92.1	88.0	83.9	83.0	82.5	81.9	80.9	79.2	81.6	144.5
NFK 9473: RPM	5000	94.0	96.3	96.3	93.5	96.3	94.2	92.5	88.3	87.1	85.6	80.4	79.3	81.4	78.2	79.4	78.3	141.4
(992: RAD/SEC)	6300	96.1	95.4	94.2	94.5	96.1	95.1	95.5	89.2	83.2	82.2	78.5	76.4	78.5	76.3	76.6	76.5	141.3
NFD 86.8: RPM	8000	92.9	94.3	91.9	91.5	95.7	91.0	91.1	87.0	81.1	79.9	77.0	77.0	76.2	75.1	75.2	140.8	
(1113: RAD/SEC)	10000	91.9	92.4	90.9	91.3	93.9	91.7	89.3	84.8	80.9	80.1	78.4	81.1	81.2	82.1	81.0	81.0	140.7
NO. OF BLADES	12000	89.3	87.6	86.3	87.6	91.3	88.2	86.5	80.6	76.5	73.6	69.6	70.4	70.3	68.6	68.9	69.7	137.8
16000	84.9	84.0	82.3	83.3	86.7	83.8	82.1	78.1	74.8	74.8	67.2	69.9	70.0	69.0	68.3	69.3	136.5	
20000	80.0	83.5	79.1	79.5	86.0	81.1	80.2	77.2	77.6	85.2	74.3	78.2	77.3	79.3	77.6	77.5	139.8	
OVERALL MEASURED	109.9	108.1	111.2	114.3	115.2	123.0	111.3	109.2	105.0	106.5	101.3	100.2	101.3	99.1	96.7	99.5		
OVERALL CALCULATED	109.7	108.5	111.9	114.9	115.2	113.9	111.6	109.7	104.9	106.4	101.3	100.6	101.7	99.4	95.3	99.1	159.9	
PWD	120.0	119.6	121.3	123.7	124.2	123.3	120.5	116.3	113.0	115.1	110.2	109.4	110.4	109.0	107.0	108.3		

MODEL SOUND PRESSURE LEVELS (DB, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	PWL
		(0.0)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	82.8	82.9	83.8	82.1	79.5	69.5	79.3	80.2	78.7	78.9	77.2	76.9	77.9	77.8	75.9	80.1	128.7
	63	76.7	77.1	77.3	76.4	77.8	67.9	74.3	73.4	75.2	77.0	75.4	74.2	74.0	75.0	77.4	78.4	125.4
RADIAL 100: FT.	80	76.3	75.0	73.6	71.9	72.6	62.8	71.7	71.6	75.4	74.9	72.6	67.9	68.4	71.5	70.9	71.9	122.1
(30: M)	100	74.7	71.0	72.8	71.4	69.8	59.8	68.2	68.6	70.8	69.2	68.0	68.3	70.1	69.2	68.3	71.0	119.2
VEHICLE AIT	125	76.9	69.5	69.1	69.5	68.9	59.1	67.5	68.4	71.3	68.1	67.6	68.5	70.0	69.5	71.5	73.4	119.2
CONFIG BOM IN	160	79.1	83.3	81.9	79.2	72.9	72.2	73.4	81.0	76.8	79.2	72.0	74.3	72.9	76.2	76.3	76.2	127.1
LOC PTD	200	86.7	86.1	85.3	82.5	76.0	74.9	76.4	84.4	78.0	82.0	74.4	77.2	75.1	78.0	79.2	78.5	129.9
DATE 08/09/74	250	75.8	73.0	73.3	72.5	73.3	62.1	71.4	69.9	69.8	71.1	68.1	68.1	71.8	71.9	70.0	71.2	120.7
RUN 709	315	82.1	84.0	83.3	80.1	73.5	82.1	86.3	88.3	77.9	83.0	79.2	84.6	88.8	84.0	77.2	84.3	136.7
TAPE AY41	400	84.9	87.3	86.6	84.3	97.3	86.2	91.1	90.7	79.0	86.2	82.4	87.1	91.9	37.7	80.1	87.4	140.1
BAR 28.9 HG	500	88.6	94.1	96.8	103.1	100.8	89.6	98.3	96.2	98.9	89.7	92.9	80.0	86.7	88.6	90.2	96.2	145.5
(97692: N/M2)	630	84.1	90.4	93.1	94.4	92.3	83.1	89.4	87.2	84.9	83.2	89.6	77.1	82.1	80.1	86.6	87.5	138.3
TAMP 68: DEG F	800	89.2	93.6	96.0	97.3	97.2	89.2	96.3	92.1	87.9	89.3	91.2	85.1	84.2	79.9	88.5	84.4	142.4
(293: DEG K)	1000	92.0	97.6	92.1	98.8	99.2	90.0	97.8	93.3	82.0	89.3	88.9	87.3	79.2	81.1	84.5	82.6	143.0
THET 66: DEG F	1250	88.1	89.4	92.3	92.6	93.1	85.7	91.5	85.0	85.9	88.3	81.3	86.3	90.0	84.9	85.2	77.3	138.9
(292: DEG K)	1500	92.0	91.5	96.4	98.7	100.4	86.8	89.4	88.2	82.9	87.1	85.6	78.4	83.3	82.0	82.3	80.6	142.2
MACT 15.60 GM/M3	2000	91.4	90.4	94.1	96.6	101.4	88.2	96.8	90.3	83.3	85.3	83.4	80.5	80.2	78.2	79.7	79.8	142.2
(.01560 KG/M3)	2500	88.8	90.9	92.1	94.6	101.1	87.8	89.4	89.0	84.5	83.7	81.3	80.1	83.1	80.9	79.4	79.1	141.7
NFA 0754: RPM	3150	91.1	91.6	92.4	94.9	95.3	84.3	91.8	91.5	88.3	85.2	80.6	81.6	82.3	78.4	79.7	78.5	140.0
(1126: RAD/SEC)	4000	92.1	93.1	92.9	94.3	96.1	87.7	91.2	88.0	83.7	80.2	78.2	80.4	80.2	79.2	78.1	79.2	139.7
NFK 10662: RPM	5000	91.0	93.7	94.1	92.6	96.3	84.3	91.7	87.1	85.1	82.3	80.6	80.7	83.4	79.1	80.6	75.6	139.0
(1116: RAD/SEC)	6300	92.4	92.3	91.3	92.6	94.6	82.8	90.8	85.5	80.0	79.5	76.7	77.4	77.4	76.5	76.3	75.7	138.0
NFD 10628: RPM	8000	90.1	90.3	91.0	89.6	93.1	80.8	89.5	84.9	81.9	79.3	77.2	78.2	79.9	78.0	78.0	74.2	137.9
(1113: RAD/SEC)	10000	88.7	90.9	87.8	89.2	91.1	79.0	87.1	83.9	81.8	90.8	81.0	84.1	84.1	85.0	84.1	84.0	139.5
NO. OF BLADES 44	12500	84.3	85.4	83.3	85.6	87.8	75.1	82.6	78.7	76.1	81.6	72.6	75.7	75.5	75.4	74.4	74.6	134.9
	15000	81.7	81.1	79.0	81.4	84.1	71.7	78.7	75.1	75.5	72.8	67.2	73.1	70.0	68.0	67.9	66.1	132.6
	20000	78.9	81.5	77.0	78.6	81.0	68.9	77.1	75.2	76.0	83.1	72.6	77.2	76.0	77.1	76.6	76.5	136.7
OVERALL MEASURED		102.9	103.5	105.4	108.3	110.0	109.0	105.2	103.1	97.9	99.0	98.0	96.8	97.7	96.0	97.1	99.5	
OVERALL CALCULATED		102.3	103.6	105.3	108.4	109.7	98.6	105.0	102.4	97.1	98.6	98.3	95.8	97.8	95.5	96.4	98.6	153.3
PNDN		115.4	116.5	117.3	119.2	122.3	110.8	110.0	114.5	110.2	109.7	107.4	100.9	107.8	105.9	106.1	108.0	

MODEL SOUND PRESSURE LEVELS (DB, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ.	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
RAIAL 100: FT.	50	79.6	81.1	82.8	79.3	78.8	78.6	77.9	77.8	79.9	76.9	74.9	75.3	78.7	78.7	76.2	80.1	128.1
( 30: M)	60	77.1	77.8	77.8	75.2	77.7	78.9	75.0	74.0	77.8	75.2	73.9	74.3	75.1	74.9	73.1	76.3	125.8
VEHICLE ATT	80	75.4	74.7	74.8	74.1	73.7	75.5	73.9	73.8	74.8	73.7	73.7	72.8	70.5	71.5	70.6	71.9	123.3
CONFIG 9=M IN	100	75.0	73.0	73.9	72.1	73.6	74.0	71.1	71.9	71.1	78.9	70.1	68.9	70.8	72.9	73.9	72.2	121.6
LOC PTO	125	74.0	73.6	71.5	71.5	71.3	74.1	71.6	69.1	67.3	69.2	67.6	69.6	71.0	69.2	69.2	69.8	120.3
DATE 08/09/74	160	76.8	73.0	75.2	73.6	72.8	73.8	73.8	69.9	73.7	77.0	74.1	75.4	78.2	71.2	73.7	74.4	125.7
RUN 711	200	75.8	75.9	74.9	71.5	72.0	72.1	70.2	68.3	71.6	66.4	65.3	65.4	66.1	66.9	65.2	66.6	119.5
TAPP 68: DEG F	250	81.8	81.5	81.0	79.7	78.8	77.1	75.2	74.9	71.7	70.4	69.2	68.1	69.1	70.0	69.1	70.3	124.6
BAH 20.9 HG	319	83.1	82.1	82.0	81.3	80.1	79.8	77.2	76.9	73.6	72.0	70.4	71.1	73.2	75.2	72.1	73.4	126.8
(97692) N/M2	400	80.0	80.2	79.8	78.3	78.9	79.7	74.1	71.0	70.8	78.3	69.4	71.8	75.8	72.1	72.9	71.4	125.2
TAMP 68: DEG K	200	80.8	82.5	81.0	79.2	81.6	83.6	77.0	74.7	75.8	73.8	71.0	74.7	78.6	74.8	75.6	75.3	128.1
(293: DEG K)	833	88.1	88.6	90.3	91.8	92.9	92.8	87.8	86.5	86.2	83.2	80.7	83.6	88.4	85.2	86.4	87.6	138.3
TWET 86: DEG F	800	99.2	100.1	103.0	104.8	107.0	103.8	100.2	98.3	97.1	91.0	92.3	98.2	102.3	97.9	99.8	99.6	151.1
(292: DEG K)	1000	99.9	101.3	107.5	103.6	108.9	108.3	104.4	100.2	98.9	97.6	94.5	100.2	105.1	94.3	93.2	97.8	153.5
HACT 15.60 M/H3	1500	94.2	94.0	98.0	105.7	105.7	105.9	105.2	100.0	93.8	94.0	89.3	90.3	96.9	94.1	89.2	92.5	151.1
(.01560 KG/H3)	2000	96.3	96.0	96.5	97.5	104.0	102.1	99.1	96.6	97.0	92.3	90.6	90.7	89.4	88.1	87.6	85.6	147.7
NFA 9080: RPM	3150	95.9	96.3	95.6	99.1	102.0	101.8	97.8	95.9	89.7	89.2	85.2	80.9	87.7	82.1	85.2	86.1	146.4
( 951: RAD/SEC)	4000	98.0	97.1	97.0	96.5	98.8	101.8	97.9	92.9	87.6	83.8	82.2	82.9	83.9	80.8	78.9	80.1	147.4
NFK 900: RPM	5300	96.0	99.2	98.4	96.3	98.0	98.1	95.5	90.5	88.9	86.2	82.1	80.5	81.1	80.1	81.2	78.4	144.0
( 943: RAD/SEC)	6300	98.1	97.3	96.3	97.8	97.9	98.2	95.5	90.5	84.2	84.3	80.6	80.6	79.0	77.4	76.4	78.5	144.1
NFL 10628: RPM	8000	95.1	96.3	94.9	94.3	97.0	96.7	93.2	87.0	82.9	82.0	79.1	79.1	78.2	78.1	77.1	77.3	142.9
(1113: RAD/SEC)	10000	94.0	94.3	92.2	93.2	94.8	94.5	92.3	86.0	81.6	84.9	76.9	79.2	78.9	79.1	77.9	78.0	142.1
NO. OF PLAQUES 4	12000	90.2	90.4	88.4	89.0	91.1	92.2	80.6	82.4	77.2	74.4	71.6	73.3	72.3	72.2	70.7	70.8	139.6
PROB	16000	86.9	87.1	84.8	86.2	87.8	89.7	85.3	79.9	75.9	79.1	70.9	74.9	73.9	75.6	72.9	72.3	139.6
	20000	82.1	84.1	81.2	81.2	84.8	85.8	81.4	77.0	76.0	83.0	73.2	78.0	77.9	79.3	77.1	77.3	139.5
OVERALL MEASURED		107.9	103.1	110.4	111.3	114.7	114.9	112.0	107.1	104.2	103.0	90.3	93.1	96.9	92.4	91.5	92.4	159.8
OVERALL CALCULATED		107.9	108.5	111.0	111.5	114.7	114.8	111.8	107.7	104.4	103.0	99.7	103.7	107.8	101.8	101.4	103.1	159.8
		120.4	120.7	126.9	121.6	124.9	125.8	122.6	119.1	115.6	113.8	110.1	111.6	115.1	110.2	110.6	111.1	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 4 HR. 19.6

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
RADIAL 100: FT.	50	80.5	80.9	81.7	79.1	78.7	77.7	76.2	78.0	76.6	77.1	75.0	74.1	76.0	75.6	73.9	77.2	126.6
(30: H)	80	78.1	77.2	76.9	76.2	77.7	79.0	75.0	75.2	73.2	76.3	75.3	74.3	76.3	75.2	75.2	77.2	125.6
VEHICLE ATT	100	77.3	74.9	74.6	75.2	73.7	74.7	73.7	74.5	73.7	73.6	74.7	72.9	70.5	71.8	72.0	72.1	123.6
CONFIG RPM IN	120	76.7	73.0	73.9	72.4	74.0	72.0	70.2	71.9	70.7	70.3	68.9	67.9	69.0	71.8	71.1	71.3	121.0
LOC PTO	200	74.0	73.4	71.2	71.7	71.2	72.2	70.6	70.4	67.9	68.5	66.3	68.4	70.4	69.0	70.4	70.6	119.9
DATE 08/09/74	250	76.0	74.0	77.9	73.5	73.2	75.1	80.3	75.9	75.9	68.9	67.3	76.9	78.2	77.3	74.3	77.3	126.0
GUN 712	300	76.0	74.4	74.2	73.3	72.7	71.9	71.3	69.9	67.8	67.2	66.3	67.3	67.8	68.9	67.1	68.1	119.9
TAPE A941	400	81.7	81.1	81.1	79.6	79.0	77.1	76.3	74.9	72.2	71.3	70.1	70.3	70.9	71.2	71.5	71.2	125.1
BAR 26.9 HG	500	84.1	84.1	83.9	85.4	84.1	81.1	77.1	79.4	78.8	83.0	81.1	79.0	77.9	79.0	78.1	78.5	131.0
(97692: N/M2)	600	81.6	78.1	79.6	79.4	80.7	82.0	74.2	75.6	73.7	73.8	74.2	76.2	76.1	73.9	73.4	72.0	127.0
TAMP 68: DEG F	800	88.9	82.8	86.7	87.1	91.5	93.6	81.9	86.8	84.7	83.8	85.2	86.8	84.6	82.7	75.2	75.3	137.1
(293: DEG K)	1000	94.2	92.3	93.2	94.4	99.1	100.4	99.3	95.2	97.1	95.2	86.8	88.5	93.2	86.4	83.4	80.4	145.7
THET 66: DEG F	1200	107.9	102.3	109.4	108.2	109.8	108.0	108.0	102.4	93.0	102.3	93.4	90.0	97.0	93.2	84.3	91.6	155.1
(292: DEG K)	1400	107.3	102.4	105.6	105.4	109.0	109.0	104.8	104.3	100.1	100.4	97.6	97.6	97.2	97.5	90.5	94.6	153.4
HACT 15.68 GM/M3	1600	95.0	98.2	99.1	103.3	108.2	107.1	104.1	103.3	95.9	96.0	91.2	92.4	90.0	94.0	83.3	90.3	151.9
(.01568: KG/M3)	1800	93.8	93.6	98.1	102.3	105.2	106.0	101.3	98.4	92.2	92.2	90.5	87.2	88.3	89.5	86.3	87.3	149.5
NFA 95: RPM	2000	94.2	94.3	95.2	100.4	100.5	101.2	97.6	95.3	91.4	91.3	88.4	84.4	88.4	85.1	84.1	87.5	145.9
(999: RAD/SEC)	2200	94.6	96.0	96.0	97.1	101.7	100.8	96.0	94.3	89.5	89.9	85.2	79.8	86.0	81.9	83.1	84.0	145.4
NFK 9: RPM	2400	94.4	94.6	95.5	96.8	99.3	97.4	94.6	84.5	86.5	81.6	82.5	83.9	79.4	81.6	81.6	81.6	144.8
(888: HAU/SEC)	2600	97.9	97.1	97.0	96.6	99.8	100.8	99.0	94.3	89.9	84.1	83.2	85.3	82.8	80.8	78.1	88.0	146.4
NFD 10628: RPM	2800	95.0	97.4	97.4	96.7	97.0	94.9	93.4	88.4	87.0	84.0	81.5	80.0	81.0	78.0	79.0	76.4	143.2
(1113: HAU/SEC)	3000	97.3	96.3	95.1	96.5	96.0	97.4	94.6	90.3	84.5	83.8	79.7	79.2	74.1	77.3	77.4	77.4	143.6
NO. OF BLADES 41	3200	95.0	95.5	95.0	93.2	95.9	94.9	93.0	88.0	83.7	80.3	78.0	77.9	77.8	77.2	76.1	76.2	142.0
MEASURED	3400	93.0	93.2	91.2	92.3	93.5	93.6	90.9	86.0	81.9	87.1	78.3	81.2	80.6	81.8	80.0	80.9	141.4
CALCULATED	3600	89.5	89.6	87.7	88.8	90.5	91.4	87.8	81.4	77.2	74.4	71.8	72.0	72.5	72.6	71.3	69.6	139.0
	3800	85.8	86.0	83.9	85.0	86.9	88.8	84.3	78.1	74.9	74.9	71.3	72.2	72.7	74.9	72.3	68.9	137.9
	4000	81.7	84.1	80.4	81.5	83.9	85.9	80.4	77.4	70.1	85.4	75.6	79.1	78.9	80.0	78.3	78.3	140.0
OVERALL AVERAGE		109.7	109.4	111.1	113.4	115.8	114.9	112.1	110.0	103.9	105.3	92.2	90.3	92.2	91.2	85.5	90.4	160.5
PWD		120.6	120.2	121.2	123.0	124.4	125.4	121.9	118.5	114.0	114.3	111.7	109.9	110.7	109.5	106.4	108.4	



MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
50	81.4	80.7	81.8	79.1	78.5	77.9	76.5	77.7	78.1	76.1	75.0	74.8	74.9	75.9	74.1	76.8	126.9	
63	79.9	76.3	77.0	77.3	78.1	79.2	74.7	74.3	74.1	75.3	75.2	74.2	76.2	76.2	75.1	77.0	125.9	
RADIAL 100. FT. ( 30. M)	80	77.2	74.7	74.6	73.8	74.8	74.7	74.4	74.8	74.9	74.7	74.8	71.6	68.5	73.1	70.9	71.4	123.6
VEHICLE ATT	100	78.7	72.9	73.9	71.1	74.1	72.0	70.6	72.0	71.8	69.3	68.9	67.1	67.9	71.0	71.0	70.6	120.8
CONFIG B-M IN	125	78.8	73.4	72.5	71.6	74.1	74.5	70.2	70.4	69.4	67.3	66.3	68.0	70.3	69.5	70.3	70.9	120.6
LOC PTD	160	76.6	78.9	77.8	75.3	75.9	75.2	78.6	78.7	73.9	65.2	69.2	77.8	78.0	74.1	72.3	74.7	125.9
DATE 08/09/74	200	78.6	74.0	74.0	72.3	75.2	72.3	71.0	69.8	69.8	66.3	66.2	68.0	68.1	70.2	67.2	67.9	120.4
RUN 713	250	81.8	81.1	81.0	79.7	79.2	77.3	75.8	75.0	74.4	70.5	71.0	69.4	69.8	73.2	71.0	71.7	125.3
TAPE A941	315	82.7	82.9	83.0	84.6	85.8	86.0	82.0	85.2	86.3	83.3	83.3	81.1	79.9	82.1	83.1	81.7	133.9
BAR 28.9 HG	400	80.4	79.1	81.8	80.4	83.7	83.9	77.6	77.9	78.7	75.2	72.8	75.0	73.8	76.0	74.8	73.5	128.8
(97692. N/M2)	500	90.1	92.3	90.2	94.8	105.5	105.5	99.0	102.5	95.7	94.4	96.4	95.2	91.2	85.6	90.4	86.9	149.4
TAMB 68. DEG F	630	90.1	92.3	90.2	94.8	105.5	105.5	99.0	102.5	95.7	94.4	96.4	95.2	91.2	85.6	90.4	86.9	149.4
(293. DEG K)	1000	94.1	98.4	96.5	102.8	105.2	105.7	102.1	102.6	94.3	95.5	95.3	95.6	89.2	87.6	84.3	88.2	150.3
TNET 66. DEG F	1250	94.7	96.1	99.1	103.6	106.4	107.4	102.9	100.2	96.1	94.5	92.0	92.0	88.1	88.4	85.4	89.0	151.0
(292. DEG K)	1600	95.9	95.4	97.2	102.7	105.1	105.6	99.9	98.4	97.2	93.3	92.2	88.5	90.2	87.7	87.3	86.8	149.5
WACT15.60 GM/M3	2000	97.0	95.6	97.1	98.6	103.4	104.3	99.3	98.6	94.4	90.2	90.3	83.4	89.1	86.4	86.2	83.0	148.1
(.01560 KG/M3)	2500	94.6	95.0	96.0	96.4	101.1	103.1	97.8	94.9	92.0	89.1	85.1	83.9	83.8	83.2	81.9	81.8	146.3
NFA 9851. RPM	3150	93.8	94.3	94.3	96.9	97.2	99.4	96.1	93.2	89.6	85.3	82.0	81.4	80.0	81.9	80.3	79.8	143.7
(1010. RAD/SEC)	4000	97.8	96.3	96.0	96.7	97.9	102.3	99.0	94.2	89.1	82.2	83.0	80.9	81.0	82.3	78.3	80.6	145.8
NFK 9568. RPM	5000	94.0	97.5	97.6	94.6	97.4	96.4	93.1	89.4	88.1	83.2	81.3	80.1	80.2	80.5	79.5	75.8	142.7
(1002. RAD/SEC)	6300	96.7	95.3	94.2	95.6	96.3	97.4	94.9	89.4	84.4	81.4	79.2	79.4	77.9	78.2	76.3	77.0	142.8
NFD10628. RPM	8000	93.8	94.4	93.5	93.7	95.1	95.2	92.9	87.2	84.3	79.3	77.9	78.0	76.9	77.4	76.0	74.7	141.7
(1113. RAD/SEC)	10000	91.7	93.9	90.9	92.1	92.7	95.1	90.9	85.9	82.0	87.0	78.8	81.0	80.9	83.1	81.2	80.5	141.6
NO. OF BLADES 44	12500	89.1	88.5	87.5	88.8	91.2	91.5	87.1	81.2	78.3	73.3	72.5	72.2	71.2	73.6	70.5	71.4	139.1
16000	85.3	84.7	83.0	84.1	88.9	88.7	83.8	78.0	76.0	73.8	71.0	72.7	72.7	76.3	70.8	72.7	138.2	
20000	80.8	83.1	80.5	80.7	88.2	85.9	81.0	77.3	78.4	84.3	75.9	79.0	77.8	80.2	78.2	78.6	140.6	
OVERALL MEASURED	108.6	107.4	111.0	115.7	115.3	115.2	110.8	110.2	106.1	102.4	101.3	101.1	99.0	98.2	97.5	100.8		
OVERALL CALCULATED	108.6	107.0	111.3	115.8	115.3	115.4	110.6	110.2	105.8	103.3	101.6	101.5	98.2	97.7	96.7	99.3	160.3	
PND8	120.3	119.5	121.1	124.4	124.4	125.6	121.7	119.3	115.9	112.5	110.9	109.7	109.2	108.4	107.4	108.6		

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0. )	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	83.4	82.8	84.7	82.0	80.7	80.1	78.8	80.0	79.8	77.9	77.0	76.9	77.9	76.1	79.5	129.1	
63	79.4	77.0	78.2	76.2	77.9	78.2	73.6	73.1	74.0	76.0	75.1	74.8	73.0	73.9	76.9	125.3	
RADIAL 100. FT. ( 30. M)	80	76.1	74.9	77.8	73.0	72.5	72.6	72.3	71.7	74.6	73.5	72.7	68.8	68.6	71.6	122.5	
VEHICLE ATT	100	73.5	70.9	73.8	71.3	70.8	71.1	68.8	70.1	69.9	67.9	67.8	69.1	68.9	70.1	119.8	
CONFIG B-M IN	125	74.6	71.3	73.2	70.6	71.3	71.5	69.1	70.0	68.4	67.2	68.0	69.5	70.2	70.4	120.2	
LOC PTO	160	78.7	84.1	82.1	78.9	75.0	82.1	74.6	81.8	76.0	78.3	73.0	74.0	70.7	75.2	127.9	
DATE 08/09/74	200	81.7	87.1	84.9	82.0	77.9	84.9	77.6	84.0	79.0	81.1	75.2	76.9	73.0	76.2	130.6	
RUN 715	250	76.5	76.3	76.3	75.3	75.1	75.0	73.6	72.2	71.0	69.3	68.9	68.9	71.0	72.2	122.5	
TAPE A941	315	81.4	86.2	79.9	88.3	91.9	92.4	88.1	88.0	77.0	82.3	77.9	84.5	87.8	84.0	136.9	
BAR 28.9 HG	400	84.6	89.2	82.0	91.8	96.0	95.9	90.7	91.1	80.2	85.9	82.1	87.9	90.9	87.0	140.4	
(97592. N/M2)	500	89.6	92.1	98.7	104.9	103.6	102.1	99.6	98.0	92.8	83.8	94.6	82.7	87.5	89.0	148.2	
TAMB 68. DEG F	630	84.9	89.5	94.2	96.4	95.2	95.3	90.9	89.1	87.5	82.5	90.1	79.3	82.0	81.3	140.8	
(293. DEG K)	800	90.7	93.4	96.0	99.5	100.1	101.4	97.8	95.2	90.0	90.0	93.0	88.3	84.1	82.2	145.6	
THET 66. DEG F	1000	93.0	89.5	94.6	101.6	102.2	102.3	99.1	96.4	87.3	91.3	90.4	90.2	83.3	83.3	146.8	
(292. DEG K)	1250	88.6	90.4	92.3	93.3	95.2	99.1	92.7	89.0	89.2	89.3	80.2	88.3	89.9	84.1	142.2	
FACT 15.60 GM/M3	1600	91.7	91.5	97.2	99.6	98.4	96.2	88.9	87.3	85.2	86.2	84.0	79.4	80.2	82.4	142.4	
(.01560 KG/M3)	2000	90.8	90.5	92.4	95.3	98.4	97.4	91.9	90.4	87.2	84.5	82.1	79.2	81.2	80.2	141.9	
AFA10754. RPH	2500	91.7	91.3	94.0	96.4	103.1	100.3	91.6	90.2	85.9	82.0	79.9	80.2	82.0	81.1	144.8	
(1126. RAD/SEC)	3150	90.8	90.5	92.4	94.7	96.2	95.3	92.9	93.1	88.2	82.5	78.2	82.2	81.0	81.2	141.4	
NFK10662. RPM	4000	92.7	92.3	93.0	93.1	95.0	96.0	91.7	89.2	85.3	79.2	79.0	80.9	78.8	81.0	140.7	
(1116. RAD/SEC)	5000	91.0	93.2	94.2	92.6	94.3	93.3	89.9	86.3	87.1	81.5	80.1	79.4	80.0	79.2	139.8	
NFD10628. RPM	6300	91.9	91.4	91.1	92.6	92.3	93.2	90.9	86.2	82.4	79.2	77.0	78.1	76.0	77.5	139.2	
(1113. RAD/SEC)	8000	89.5	91.2	91.3	90.5	93.2	91.2	89.0	84.1	82.3	77.1	76.9	78.3	78.1	78.2	138.8	
NO. OF BLADES 44	12500	88.4	91.1	89.1	90.4	90.7	89.9	86.8	84.6	82.8	89.8	80.7	83.8	82.8	85.0	140.0	
16000	81.3	81.0	79.7	82.0	84.0	81.9	79.7	75.7	71.9	70.7	67.7	70.9	68.5	72.8	67.1	133.0	
20000	80.0	81.1	77.1	79.3	81.9	79.1	76.6	76.3	73.2	82.1	72.0	77.1	75.2	78.3	76.4	136.0	
OVERALL MEASURED	104.6	104.0	106.0	109.8	111.2	110.4	106.7	104.3	100.0	99.3	100.1	97.9	97.0	97.0	98.3	99.6	
OVERALL CALCULATED	102.6	103.5	106.0	109.6	110.5	110.0	105.9	104.0	99.4	96.5	99.3	96.9	97.2	95.9	97.1	99.4	
PWDB	115.8	116.2	117.6	119.7	123.2	121.9	116.8	115.7	111.5	108.4	108.0	107.1	106.8	106.6	106.7	108.5	

MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	79.6	81.1	82.1	79.2	77.6	76.8	76.4	78.0	77.7	75.7	74.9	74.8	74.6	75.8	73.8	77.5	126.7
63	77.8	78.3	77.2	77.2	75.9	77.0	74.7	73.9	74.9	73.7	75.1	74.0	75.6	77.1	74.2	79.7	125.3
RADIAL 100. FT. (30. M)	80	74.5	74.6	74.6	73.8	72.4	73.6	74.5	74.5	73.7	74.7	71.5	68.7	71.9	70.6	71.3	123.1
VEHICLE ATT CONFIG R-4 IN	100	73.4	72.2	73.6	71.2	72.1	71.2	69.8	71.0	71.2	68.8	68.0	68.1	69.0	71.2	70.9	120.3
LPC PTO	125	73.8	73.2	72.1	71.7	70.1	70.6	69.1	70.1	69.2	68.0	67.1	68.1	69.8	69.2	70.5	119.5
DATE 08/09/74	160	70.4	76.1	76.8	75.0	78.7	74.9	75.6	79.7	74.1	67.0	67.0	76.0	77.8	74.0	72.1	125.8
HUN 716	200	73.6	75.3	74.0	72.4	73.2	71.4	70.1	70.2	69.3	66.9	66.1	66.9	67.0	69.0	67.0	119.8
TAPE A941	250	80.5	80.3	80.9	79.1	77.9	77.4	76.0	75.2	73.0	69.9	69.2	69.0	68.8	71.0	71.0	124.8
BAR 28.9 HG (97692. N/M2)	315	82.5	82.9	83.9	82.4	82.8	84.1	82.6	86.1	86.3	82.9	83.2	81.3	78.8	82.1	83.2	133.5
TAMB 68. DEG F (293. DEG K)	400	79.3	78.7	81.0	79.2	82.0	83.0	77.8	76.9	77.9	74.7	71.9	76.0	72.4	75.1	73.0	127.9
WET 66. DEG F (292. DEG K)	500	89.4	87.8	93.7	91.3	95.9	97.8	89.7	89.9	90.6	87.8	83.6	88.7	74.5	87.2	83.7	141.2
FACT 15.60 GM/M3 (.01960 KG/M3)	630	91.2	92.2	92.2	94.4	103.5	103.5	95.9	100.1	94.2	91.0	95.3	94.4	90.0	86.3	91.3	147.0
NFA 9650. RPM (1010. RAD/SEC)	800	105.6	98.4	108.9	114.1	109.9	110.0	103.9	105.6	99.9	98.7	90.2	92.0	89.8	88.1	90.0	159.6
NFK 9567. RPM (1002. RAD/SEC)	1000	93.8	97.5	98.3	102.6	104.3	104.3	101.3	101.4	93.9	92.9	94.2	96.2	87.4	86.5	84.3	149.3
NFD 10628. RPM (1113. RAD/SEC)	1250	93.7	96.3	99.0	105.4	106.3	105.0	101.7	99.2	95.2	93.0	89.1	93.2	86.8	89.4	86.1	150.2
NO. OF BLADES 44	1600	93.8	95.5	97.3	103.5	105.2	105.1	99.9	97.2	96.0	92.8	90.2	88.4	88.9	87.5	87.4	149.3
	2000	95.8	93.5	95.2	97.6	102.4	103.1	97.1	97.3	92.2	88.0	89.3	83.1	87.9	84.5	85.5	146.8
	2500	95.5	96.0	94.9	96.4	101.0	101.2	95.7	93.0	90.0	87.1	86.0	84.0	83.0	82.1	81.9	145.1
	3150	94.2	94.5	95.5	96.7	98.2	99.2	95.2	93.1	88.2	83.0	81.3	80.5	81.0	79.6	79.3	143.0
	4000	96.7	97.0	96.3	95.3	98.2	99.9	98.0	91.9	88.2	79.8	83.8	81.9	80.0	80.1	79.0	144.5
	5000	94.7	97.2	97.3	93.5	96.3	95.1	94.1	88.2	87.1	82.0	80.2	79.2	79.9	79.5	79.2	142.0
	6300	96.9	96.2	94.4	95.5	96.1	97.3	94.8	89.4	84.0	82.2	79.0	78.1	77.9	76.5	77.2	142.8
	8000	93.9	94.3	94.0	92.5	95.3	94.9	93.0	86.9	83.0	78.1	77.2	76.9	77.1	77.4	76.0	141.6
	10000	92.5	93.2	91.8	91.0	92.8	93.8	89.8	85.9	81.8	86.8	77.7	80.8	80.6	82.2	81.1	141.0
	12500	89.5	88.4	87.6	87.5	89.3	89.6	87.3	81.1	76.5	72.3	69.5	70.5	69.1	69.6	68.5	137.9
	16000	85.6	84.8	82.9	84.1	85.8	86.8	84.3	77.7	71.6	72.9	67.0	69.7	69.5	69.8	68.0	136.7
	20000	80.6	83.4	79.3	80.5	82.0	83.2	79.9	76.2	75.1	82.9	74.0	78.4	77.2	79.3	78.1	138.4
OVERALL MEASURED	108.6	107.3	111.2	115.1	114.0	114.9	109.8	109.1	104.2	102.7	109.8	101.3	97.8	97.3	97.2	99.9	
OVERALL CALCULATED	108.7	107.2	111.1	115.6	114.5	114.6	109.8	109.5	104.6	102.6	100.6	101.3	97.4	96.9	97.2	99.8	159.7
PNDB	119.6	119.8	121.0	124.0	124.0	124.2	120.8	118.5	114.7	111.6	110.1	109.7	108.3	107.4	107.2	108.8	

REPRODUCIBILITY OF TEST  
ORIGINAL PARTS IS POOR.

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PHL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	81.7	82.8	83.9	82.0	79.7	79.0	78.9	79.7	80.0	78.1	77.0	75.8	76.7	78.2	76.1	79.5	128.8
63	77.6	76.9	77.2	75.5	78.2	78.1	73.8	73.9	74.4	76.0	75.2	74.3	72.7	74.2	77.0	76.6	129.4
RADIAL 100. FT.	80	74.5	74.9	74.9	73.0	72.5	72.6	71.6	71.5	73.9	73.4	72.4	68.5	67.7	70.7	71.9	122.0
( 30. M)	100	73.8	70.9	73.1	71.3	71.0	71.1	68.8	69.8	69.9	68.2	67.8	69.0	68.5	70.3	70.2	119.7
VEHICLE ATT	125	73.9	72.4	71.2	69.6	70.4	71.3	68.8	69.4	69.4	67.5	67.4	69.4	69.9	70.3	72.2	119.9
CONFIG R-M IN	160	79.5	83.8	82.1	79.9	74.1	82.9	75.5	81.8	77.9	79.0	73.0	74.0	71.5	76.1	77.3	128.4
LOC PYO	200	81.6	87.1	84.9	83.2	77.1	85.2	78.6	84.1	80.3	82.0	76.2	76.9	72.8	78.2	79.3	131.1
DATE 08/09/74	250	75.6	76.0	76.3	75.4	75.2	74.4	72.6	72.2	70.3	69.0	69.1	69.3	70.8	72.0	70.0	122.3
RUN 717	315	80.8	86.3	82.0	89.5	92.2	92.4	87.5	87.2	75.9	82.2	79.0	84.2	87.1	84.1	77.4	136.9
TAPE A941	400	83.4	88.9	85.0	93.2	96.0	95.9	90.5	90.9	79.2	85.1	81.8	87.8	90.8	87.0	80.1	140.4
BAR 28.9 ING	500	92.3	94.7	99.0	104.9	102.9	101.9	99.7	98.0	92.8	83.1	94.9	82.7	88.5	89.0	91.9	148.0
(97692. N/M2)	630	86.0	91.5	94.4	96.4	94.4	94.5	90.9	89.4	87.5	82.2	90.2	79.5	83.0	81.3	87.3	140.6
TAMB 68. DEG F	800	92.8	93.9	96.3	100.2	99.9	101.0	97.7	94.9	90.8	90.1	92.9	87.9	85.1	84.4	89.3	145.6
(293. DEG K)	1000	94.2	89.2	96.3	101.7	102.1	102.6	99.9	97.2	87.2	90.2	90.2	90.4	82.6	84.3	86.6	147.1
THET 66. DEG F	1250	88.6	90.3	94.1	93.4	94.3	97.4	92.7	88.0	87.0	87.3	82.2	85.9	89.9	86.2	88.3	141.3
(292. DEG K)	1600	92.1	93.4	96.2	98.7	97.4	95.4	90.1	88.1	87.1	85.1	83.0	80.4	80.9	84.2	82.2	141.8
MACT15.60 GM/H3	2000	90.0	90.4	93.4	94.4	98.4	97.5	92.2	89.1	86.2	84.2	81.1	79.4	81.2	79.6	78.6	141.8
(101560 KG/M3)	2500	91.9	93.2	94.0	95.1	102.0	100.3	93.7	91.8	89.1	82.2	80.1	80.0	79.9	80.2	82.1	144.5
NFA10754. RPM	3150	91.2	91.7	93.2	94.4	96.2	95.5	92.2	91.2	88.2	82.5	78.4	81.1	79.3	79.6	79.2	141.1
(1126. RAD/SEC)	4000	92.8	93.2	92.9	93.1	93.9	96.0	91.9	89.0	85.3	80.9	79.2	80.2	79.1	80.4	78.3	140.5
NFK10662. RPM	5000	91.1	93.4	95.1	92.6	93.9	93.3	90.1	86.0	86.1	81.1	79.3	79.4	80.9	78.3	80.2	139.8
(1116. RAD/SEC)	6300	91.9	91.1	91.4	92.4	93.1	93.5	90.0	86.0	81.2	79.4	76.3	78.1	75.8	76.5	76.3	139.2
NFD10628. RPM	8000	89.7	91.3	91.3	90.5	92.9	91.4	88.9	84.1	82.0	77.4	77.2	79.0	79.0	77.4	77.3	138.8
(1113. RAD/SEC)	10000	88.8	91.1	88.9	90.3	90.8	90.0	86.7	84.0	82.8	89.9	80.7	83.7	83.6	84.9	84.1	140.0
NO. OF BLADES 44	12500	84.2	85.2	84.4	85.7	86.5	85.6	83.2	79.2	76.3	80.5	72.4	75.4	75.2	75.5	74.3	135.5
	16000	80.6	80.7	79.7	81.9	83.6	82.0	78.5	75.7	71.0	69.9	66.5	69.7	69.5	66.8	66.6	133.2
	20000	78.6	80.9	77.4	78.2	80.1	79.1	77.0	73.9	74.4	82.1	72.9	77.0	75.8	77.3	76.1	136.5
OVERALL MEASURED		103.6	103.9	106.3	110.2	110.0	110.4	106.6	103.9	100.0	99.0	100.2	97.1	97.9	97.1	98.3	99.6
OVERALL CALCULATED		103.1	104.2	106.4	109.6	110.0	109.8	106.2	104.0	99.4	98.2	99.4	96.6	97.3	96.2	97.5	98.9
PNDB		116.0	116.9	118.1	119.3	122.4	121.8	116.8	114.9	111.5	108.3	108.0	106.6	106.8	106.4	106.9	108.2

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	80.2	82.1	82.8	80.2	77.6	77.8	77.7	78.9	78.6	75.8	75.5	74.8	74.6	76.1	73.4	77.5	127.3
63	78.8	79.3	78.8	77.1	77.2	78.8	74.9	74.9	74.9	74.2	75.0	74.8	75.7	76.2	75.1	75.3	125.7
RADIAL 100. FT. (30. M)	80	74.2	74.6	74.9	73.9	72.4	72.8	74.3	73.4	73.9	72.6	73.3	70.7	68.3	71.6	70.8	122.5
VEHICLE ATT	100	73.5	72.2	73.9	72.1	72.8	71.9	69.6	70.7	71.2	68.9	68.0	66.8	68.6	71.3	70.9	120.4
CONFIG R-M IN	125	74.8	74.4	72.2	71.6	71.3	69.2	70.0	68.3	68.2	67.3	68.4	68.9	69.3	71.2	69.8	119.7
LOC PTO	160	72.7	76.2	74.9	73.1	78.8	76.9	72.6	80.0	74.9	68.9	66.6	74.7	77.0	75.0	71.9	125.4
DATE 08/07/74	200	74.6	74.0	73.2	71.4	73.9	73.2	70.7	69.8	68.9	67.3	66.0	66.1	66.7	68.3	67.0	119.8
HUN 718	250	80.0	80.2	80.9	79.1	78.8	78.2	75.6	74.9	73.3	70.3	70.1	69.1	69.8	72.0	71.0	125.0
TAPE A941	315	83.6	82.2	84.9	86.5	88.2	87.3	83.6	86.4	86.7	83.2	85.0	82.1	79.8	82.4	83.1	135.0
BAR 28.9 HG (97692. N/M2)	400	79.3	79.8	82.1	80.2	82.9	83.0	77.8	77.6	77.8	74.8	72.7	74.9	72.5	74.9	73.9	128.3
TAMB 68. DEG F (293. DEG K)	500	87.5	90.1	94.7	91.2	95.8	97.8	90.7	90.7	91.7	87.0	83.5	89.0	77.8	86.9	84.0	141.5
THET 66. DEG F (292. DEG K)	630	89.1	93.4	93.2	94.7	104.3	105.2	98.3	101.1	95.2	91.3	94.9	94.5	89.3	86.3	91.3	148.6
WACT 15.40 GM/M3 (.01560 KG/M3)	800	104.6	96.1	109.3	113.5	110.2	110.2	104.6	106.2	101.2	99.0	91.8	94.1	93.1	83.1	88.0	155.8
NFA 9640. RPM (1009. RAD/SEC)	1000	94.9	97.5	98.4	101.7	104.5	103.5	101.3	100.2	94.2	93.5	94.0	95.5	87.2	84.4	85.2	149.0
NFD 10626. RPM (1113. RAD/SEC)	1250	95.6	97.1	99.7	103.2	105.3	104.9	102.1	96.9	96.0	94.3	89.0	92.1	88.8	90.1	86.3	149.7
NC. OF BLADES 44	1600	94.7	95.4	94.4	101.3	104.1	105.2	98.2	96.3	94.5	91.3	90.2	86.3	87.9	88.2	87.4	148.4
	2000	94.8	95.5	95.1	98.3	102.2	102.5	94.9	95.1	91.1	88.2	87.8	83.1	86.0	85.5	84.2	146.1
	2500	95.9	96.0	94.9	95.1	100.9	101.0	96.0	93.8	88.9	85.1	84.7	84.2	83.0	82.3	81.2	144.9
	3150	95.1	94.5	94.3	95.6	97.2	98.4	94.2	91.2	87.2	82.5	81.2	80.1	79.3	60.2	79.0	142.7
	4000	97.7	96.1	95.9	95.4	97.2	99.8	96.7	89.9	87.2	81.2	82.0	81.2	80.7	80.2	79.0	143.8
	5000	94.7	97.2	96.1	93.5	97.4	96.2	94.2	88.1	86.2	82.3	79.9	79.3	79.2	78.3	79.2	142.3
	6300	96.7	96.1	94.4	95.3	95.4	97.1	93.8	89.0	84.1	81.1	77.9	78.4	77.2	76.3	76.3	142.3
	8000	93.6	95.0	93.0	92.5	95.1	94.1	91.7	86.9	83.3	78.1	77.1	77.2	75.9	77.1	76.0	141.1
	10000	92.4	92.9	91.1	91.1	92.9	93.9	89.6	84.9	81.9	86.2	77.7	80.6	79.6	81.9	81.0	140.9
	12500	89.0	88.7	86.6	87.6	90.2	89.7	87.3	81.1	75.4	72.2	70.1	70.4	69.3	69.4	68.9	138.0
	16000	85.6	84.8	82.7	83.9	86.0	85.8	82.4	77.7	72.0	72.1	66.4	69.7	68.5	69.0	67.6	136.6
	20000	80.8	84.1	80.0	80.6	85.4	82.3	80.1	76.2	75.4	83.4	74.2	78.3	77.1	79.1	78.2	139.0
OVERALL MEASURED	108.5	107.3	111.0	115.0	113.9	115.0	118.0	108.9	104.9	103.0	100.7	101.2	97.8	97.4	97.1	99.9	
OVERALL CALCULATED	108.4	107.2	111.3	114.8	114.5	114.7	109.9	109.5	105.1	102.8	100.5	101.2	98.0	96.6	96.9	100.3	159.0
PND8	120.1	119.6	120.9	123.5	123.8	124.2	120.1	118.4	114.4	111.7	109.5	109.4	107.6	107.5	107.1	109.3	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
	50	80.6	80.5	81.8	80.1	78.7	77.8	76.7	79.0	76.9	75.7	75.5	74.7	74.8	75.8	74.7	77.8	127.0
	63	78.5	77.2	77.2	76.4	78.2	79.8	74.7	75.2	74.0	75.0	75.2	74.1	74.8	75.3	75.0	75.9	125.7
RADIAL 100. FT.	80	75.1	74.6	74.8	73.9	74.5	73.9	74.3	74.7	73.9	73.9	74.7	71.5	69.6	71.0	70.6	71.5	123.2
( 30. M)	100	75.5	73.1	73.9	72.0	74.1	73.9	70.9	71.0	70.7	70.2	68.1	67.0	68.8	70.9	70.9	70.5	121.0
VEHICLE ATT	125	78.7	73.2	71.4	71.4	73.4	72.4	71.9	69.6	69.6	67.2	66.0	68.3	69.8	68.5	70.2	68.8	120.0
CONFIG B-M IN	160	76.4	74.2	77.1	75.0	74.8	74.9	78.8	75.8	77.2	66.9	66.0	75.8	77.2	77.1	73.7	76.7	125.6
LOC PTO	200	76.5	74.2	74.2	72.4	73.2	72.3	71.7	69.1	68.2	66.2	65.9	66.1	67.8	68.4	67.0	67.6	119.7
DATE 08/09/74	250	81.5	80.3	81.0	79.3	79.2	77.2	76.0	73.9	72.3	70.4	69.9	68.9	69.0	71.2	70.2	70.8	124.8
RUN 719	315	83.5	85.0	85.3	86.2	85.9	83.0	74.9	77.8	79.9	82.0	80.1	79.9	77.0	79.2	78.1	78.6	131.4
TAPE A941	400	80.3	77.7	79.1	79.0	81.7	81.8	74.5	75.0	74.8	72.9	73.6	75.7	73.8	74.1	72.0	71.5	126.8
BAR 28.9 HG	500	89.3	81.9	84.0	88.0	92.6	93.6	83.6	86.9	85.6	81.8	84.5	86.6	82.4	82.8	73.9	76.5	137.3
(97692, N/M2)	630	91.9	93.3	93.4	94.6	101.3	101.3	100.2	96.1	98.3	95.2	87.4	89.4	92.0	86.4	82.5	81.0	146.6
TAMB 68. DEG F	800	107.6	103.1	109.5	111.7	111.1	109.1	107.6	103.0	93.3	100.4	91.9	90.1	95.0	94.2	83.3	92.7	155.1
(293, DEG K)	1000	97.1	100.4	95.5	104.7	109.4	108.5	103.9	104.4	101.5	95.4	99.4	96.4	95.1	94.6	90.3	91.8	153.2
TWRT 66. DEG F	1250	94.9	96.4	100.0	103.1	107.9	106.9	103.7	102.0	96.4	94.3	90.0	91.9	88.7	92.4	82.2	88.7	151.5
(292, DEG K)	1600	94.0	94.4	100.1	102.4	103.1	104.4	100.1	97.1	92.3	90.5	90.0	86.3	87.0	88.5	84.4	87.0	148.3
MACT15.60 GM/M3	2000	93.7	95.5	96.3	100.5	101.4	101.3	98.1	95.4	90.8	90.3	88.1	83.9	88.1	85.5	82.5	85.1	146.2
(.01560 KG/M3)	2500	94.7	96.1	94.9	97.1	101.1	101.0	95.6	93.0	91.1	88.2	84.8	81.1	84.6	81.3	81.0	82.7	145.1
NFA 9500. RPM	3150	93.7	94.2	94.3	96.6	98.4	100.3	95.9	94.3	89.5	85.2	82.1	81.4	81.8	80.5	80.5	79.9	144.3
( 995, RAD/SEC)	4000	97.5	97.1	96.2	96.4	99.9	101.9	96.9	93.1	90.0	81.2	81.8	81.6	80.6	80.3	78.1	79.6	145.5
NFK 9419. RPM	5000	94.9	97.2	97.2	94.6	96.3	95.2	93.1	88.3	88.1	83.4	80.9	79.0	79.1	78.3	79.4	75.7	142.0
( 986, RAD/SEC)	6300	96.8	96.2	95.1	95.2	96.2	98.0	93.8	90.1	84.3	82.1	79.3	79.0	76.8	77.3	77.2	76.0	142.9
NFD10628. RPM	8000	93.6	94.3	94.0	93.4	95.9	95.1	92.0	87.1	83.9	79.0	77.2	77.1	77.0	77.4	76.2	74.6	141.7
(1113, RAD/SEC)	10000	92.3	93.1	91.2	92.3	94.7	93.9	90.6	84.5	82.0	86.1	78.7	80.7	79.5	82.0	79.9	79.5	141.5
NO. OF BLADES 44	12500	89.9	88.3	87.4	88.4	91.4	91.2	86.3	81.2	78.3	72.6	71.5	73.5	72.1	74.5	69.3	68.9	138.9
	16000	86.3	85.0	83.7	85.2	89.0	88.7	83.4	77.8	76.0	74.1	70.8	73.9	73.7	73.8	68.7	68.4	138.3
	20000	82.8	84.1	80.4	81.4	88.2	86.0	79.7	76.9	79.0	84.4	75.5	79.2	78.7	79.4	78.2	77.0	140.6
OVERALL MEASURED		109.6	108.1	111.0	113.3	115.1	115.2	111.8	109.0	105.3	103.6	102.1	99.9	100.9	100.0	95.3	97.9	
OVERALL CALCULATED		110.1	108.6	111.5	113.8	115.7	115.0	111.9	109.4	105.5	104.0	101.8	100.1	100.9	100.0	94.7	97.8	
PNDR		120.2	120.1	121.1	122.9	124.4	124.9	120.8	118.1	114.7	112.7	110.9	109.2	109.2	108.6	105.3	106.8	160.1

REPRODUCTION OF THIS ORIGINAL PAGE IS POOR

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
	50	79.7	80.7	81.7	80.0	78.7	78.9	76.5	77.9	78.0	75.8	75.0	74.7	74.5	71.1	74.0	76.7	126.8
	63	76.5	76.7	76.9	76.4	77.8	79.9	74.7	74.8	74.9	75.2	73.9	74.9	72.3	75.1	74.9	74.9	129.5
RADIAL 100. FT.	80	74.0	74.6	74.6	74.8	74.7	74.6	74.3	73.7	73.6	73.8	73.5	71.5	69.3	71.9	70.6	71.3	123.1
( 30. M)	100	73.7	72.9	73.9	72.1	75.1	73.2	70.6	71.0	72.1	69.9	68.4	67.1	69.0	73.0	70.8	70.6	121.3
VEHICLE ATT	125	74.1	74.1	72.4	71.6	74.1	76.6	69.9	69.3	70.4	67.5	66.0	68.1	69.9	74.5	70.4	69.2	121.4
CONFIG B-H IN	160	71.5	72.9	77.1	74.1	75.1	77.1	77.4	75.8	77.1	66.1	66.7	74.8	75.6	76.1	74.9	77.0	125.3
LTC PTO	200	73.6	73.3	73.2	72.2	76.8	74.9	70.7	70.1	77.2	66.0	65.1	65.9	66.7	76.2	66.9	68.1	122.6
DATE 08/09/74	250	80.7	80.0	81.0	79.5	79.9	78.0	75.7	73.9	80.3	70.0	70.2	68.9	68.8	76.4	70.3	70.7	126.2
RUN 721	315	81.5	83.0	83.2	85.3	85.9	83.2	74.9	75.9	81.9	81.3	79.8	79.2	75.9	86.4	77.0	78.0	131.8
TAPP A941	400	79.6	77.0	80.0	80.0	83.0	83.0	74.5	75.7	76.8	72.8	73.7	75.0	73.5	78.3	70.8	71.7	127.8
BAR 28.9 HG	500	87.5	80.7	87.0	89.1	93.5	94.0	84.7	87.7	85.9	83.0	84.7	86.7	81.5	79.9	75.7	76.5	137.6
(97692. N/M2)	630	91.8	92.2	92.2	94.7	101.3	102.5	100.1	96.1	98.2	95.3	84.4	89.2	92.0	82.3	85.2	84.0	146.8
TANS 68. DEG F	800	106.6	103.3	109.0	111.4	110.1	109.0	107.8	103.0	95.1	101.3	93.2	92.9	93.0	84.1	90.1	93.8	159.0
(293. DEG K)	1000	97.2	100.5	93.3	103.7	108.4	108.5	103.2	104.4	100.5	94.6	99.5	95.5	94.3	86.4	86.6	94.4	152.7
TWET 66. DEG F	1250	96.6	96.4	99.2	101.5	107.1	106.3	103.0	100.9	95.0	94.1	90.3	91.2	86.1	86.1	81.0	89.1	150.6
(292. DEG K)	1600	92.7	95.2	95.4	101.6	104.0	106.2	100.8	98.2	92.4	92.5	90.1	87.1	88.2	85.3	85.5	85.9	149.1
MACT 15.60 CM/M3	2000	94.1	93.4	95.2	99.6	102.1	102.2	96.9	93.0	90.5	90.2	86.4	84.0	88.0	86.4	85.2	85.3	146.2
(.01560 KG/M3)	2500	94.8	93.9	94.3	95.2	99.9	101.9	95.7	94.1	99.2	88.0	84.2	80.9	85.7	86.2	82.1	82.7	149.3
NFA 9504. RPM	3150	93.9	94.5	95.2	94.5	98.2	100.2	96.1	94.1	89.5	85.5	83.3	81.6	82.1	85.3	81.5	79.1	144.1
( 995. RAD/SEC)	4000	97.6	96.3	96.2	96.1	99.8	102.9	98.6	95.1	90.2	82.1	84.2	80.9	80.5	85.0	78.0	80.0	146.3
NFK 9423. RPM	5000	95.0	96.5	97.5	94.4	97.0	95.1	93.2	88.2	88.1	84.1	81.2	79.1	79.9	85.1	79.4	75.7	142.2
( 987. RAD/SEC)	6300	96.7	96.4	95.1	95.3	96.0	97.3	94.0	84.2	84.1	82.1	79.2	78.0	76.8	86.4	76.1	76.9	142.7
NFD 10628. RPM	8000	93.6	94.0	94.1	93.2	95.9	95.1	93.0	86.9	84.0	79.3	77.9	76.9	76.9	87.4	76.2	75.0	142.0
(1113. RAD/SEC)	10000	92.4	92.9	91.8	91.3	92.8	94.7	90.5	85.7	82.7	86.9	78.1	80.7	79.8	87.9	80.1	79.6	141.6
NO. OF BLADES 44	12500	89.2	88.6	87.7	87.5	90.2	91.6	87.1	81.2	80.6	73.3	72.5	72.4	73.0	88.4	69.3	69.0	139.5
	16000	85.5	84.8	83.7	83.8	88.9	87.8	83.7	78.9	80.9	74.1	71.7	73.7	73.5	89.0	68.0	68.3	139.4
	20000	81.5	84.1	80.3	80.6	87.9	85.2	80.6	77.0	80.9	84.4	75.3	79.0	78.7	88.2	77.4	78.0	141.6
OVERALL MEASURED		109.6	108.0	111.0	113.1	115.0	115.0	111.7	108.7	107.1	104.4	101.9	100.3	100.7	102.1	95.3	99.1	
OVERALL CALCULATED		109.4	108.4	110.9	113.5	115.1	115.3	111.8	109.3	105.1	104.5	101.9	100.0	99.7	99.0	94.2	99.0	160.0
PNDP		120.1	119.5	120.7	122.6	124.6	125.6	121.4	118.4	114.6	113.3	111.0	108.8	109.0	110.1	106.0	107.6	

		MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)														PWL	
		ANGLES FROM INLET IN DEGREES (AND RADIANS)															
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	
FREQ.		(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(( ))
	50	76.3	76.9	77.8	78.4	75.7	74.0	72.4	73.9	73.8	72.0	72.0	71.8	71.8	72.9	72.1	123.4
	63	76.5	76.8	76.3	76.3	77.9	78.3	73.9	72.9	73.4	73.5	72.2	72.0	70.8	71.3	71.3	123.8
RADIAL 100. FT.	80	74.5	74.7	74.8	75.0	73.4	72.6	72.4	72.5	70.9	70.1	71.9	71.6	69.4	71.8	68.6	121.7
( 30. M)	100	75.5	74.0	74.1	72.5	73.0	71.9	69.7	70.0	70.1	68.3	70.9	70.9	68.9	73.9	71.0	120.9
VEHICLE ATT	125	73.0	73.3	76.2	70.3	69.0	70.2	67.9	67.4	66.5	64.6	64.4	67.4	67.3	66.6	67.2	117.5
CONFIG 9=M IN	160	69.2	67.1	69.9	67.5	67.9	66.0	66.5	65.2	64.1	61.3	62.9	64.9	64.6	64.1	62.0	115.0
LOC PTO	200	74.6	75.4	75.0	71.6	72.3	70.0	69.0	67.2	66.3	64.2	63.2	62.0	62.1	64.1	63.1	118.0
DATE 08/09/74	250	81.6	82.0	82.0	80.4	80.0	78.1	76.0	75.2	74.3	70.1	70.2	67.2	67.1	67.5	69.4	125.4
RUN 722	315	84.6	83.1	83.2	81.4	80.2	77.1	73.6	72.2	71.3	69.2	67.2	66.0	67.1	68.1	67.2	125.3
TAPE A941	400	80.4	80.2	81.0	80.2	79.1	76.8	73.4	71.9	71.1	68.2	68.0	66.8	68.8	70.0	67.9	124.3
BAR 28.9 HG	500	79.3	79.1	79.1	77.3	75.7	73.8	70.4	69.6	69.0	66.9	68.0	66.0	66.7	68.9	68.0	122.0
(97625. N/M2)	630	83.7	84.5	85.5	84.9	82.5	79.3	76.2	75.4	74.3	71.4	70.5	70.1	70.2	70.5	70.5	128.0
TAMP 68. DEG F	800	82.5	82.1	83.9	85.6	85.0	83.0	78.7	80.2	72.1	78.3	71.9	79.1	71.0	74.4	70.0	130.0
(293. DEG K)	1000	83.7	83.6	85.4	84.5	85.6	82.2	81.2	78.4	73.5	74.7	74.5	76.3	74.1	73.2	72.3	130.0
TMET 66. DEG F	1250	86.8	86.2	88.4	85.5	86.0	88.2	86.7	84.0	82.1	82.3	80.1	79.4	83.1	82.2	76.0	134.4
(292. DEG K)	1600	86.6	85.2	88.2	88.8	86.3	87.5	81.8	84.1	82.3	79.7	76.1	75.3	76.3	78.3	73.5	133.6
WACT 15.60 GM/M3	2000	87.8	87.6	88.4	88.6	92.1	91.5	86.2	82.3	81.3	79.5	79.2	76.4	74.2	73.2	73.2	136.0
(.01560 KG/M3)	2500	89.6	90.1	91.0	91.4	94.2	94.4	89.6	86.7	84.0	80.4	79.0	78.3	78.8	75.3	75.3	138.9
NFA 7474. RPM	3150	91.8	92.6	94.2	93.6	93.2	94.3	90.1	89.1	84.3	81.7	77.4	78.2	77.1	76.4	74.1	139.5
( 783. RAD/SEC)	4000	95.9	95.2	95.2	95.6	95.9	98.1	92.5	88.0	94.3	77.5	77.8	78.0	79.1	79.1	75.4	142.0
NFK 7410. RPM	5000	93.8	96.6	96.4	94.6	96.1	96.2	92.0	87.0	87.2	82.7	79.2	78.5	79.3	77.3	77.3	141.8
( 776. RAD/SEC)	6300	95.8	95.6	94.3	95.8	95.0	95.2	92.0	86.1	81.9	79.4	76.1	76.1	75.2	74.4	74.1	141.3
NFD 10628. RPM	8000	93.9	96.6	95.2	93.7	95.0	93.3	89.9	82.9	80.5	78.4	75.3	75.1	74.8	75.1	76.1	140.9
(1113. RAD/SEC)	10000	93.7	95.1	93.2	93.5	92.8	92.2	88.4	81.1	77.1	74.2	71.6	71.8	70.5	71.8	71.2	140.2
NO. OF BLADES 44	12500	91.2	92.6	89.7	90.9	90.6	89.4	85.2	77.6	73.5	72.5	68.5	69.3	68.4	68.6	69.6	138.7
	16000	87.7	89.3	86.8	87.2	87.8	85.8	82.5	75.9	72.0	81.1	71.6	75.1	73.9	75.9	75.1	138.1
	20000	82.7	84.2	81.3	82.6	81.9	80.1	76.8	69.2	65.1	70.1	62.1	65.1	64.0	65.4	64.3	134.8
OVERALL MEASURED		103.9	104.6	104.3	105.3	104.0	104.1	100.7	96.2	94.5	92.3	90.1	90.3	89.9	90.6	89.4	
OVERALL CALCULATED		103.5	104.4	104.0	103.8	104.3	104.5	100.3	96.6	93.7	91.4	88.8	88.9	89.2	88.8	86.8	150.6
PNJB		116.8	117.1	117.1	116.9	117.3	118.2	113.6	110.4	107.5	104.2	101.6	101.5	101.8	101.6	99.5	



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)													PWL		
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.		130.	140.
		(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	
	30	79.6	80.9	81.0	79.1	79.0	78.1	76.5	81.7	76.8	75.8	74.8	74.7	74.6	76.2	73.8	127.1
	63	76.5	76.0	76.0	75.1	78.0	78.9	74.6	81.1	73.0	74.0	74.0	74.1	72.8	73.1	72.1	129.6
RADIAL 100. FT.	80	75.2	74.9	75.6	74.7	74.8	74.9	74.6	78.7	73.6	74.8	72.5	70.6	72.8	71.6		124.2
( 30. M)	100	75.5	73.1	74.1	72.0	74.9	73.2	70.6	80.0	71.9	70.2	69.9	67.8	68.7	72.2	70.9	123.1
VEHICLE ATT	125	74.0	74.3	72.4	72.3	71.5	71.5	71.2	89.4	68.2	68.3	67.3	68.1	70.0	68.5	68.5	129.1
CONFIG R-H IN	160	76.4	71.9	73.1	74.4	75.2	72.9	77.9	81.0	71.2	72.3	70.9	74.8	76.6	71.3	72.9	125.2
LOC P10	200	75.8	76.1	74.9	73.1	73.2	71.0	70.7	82.1	68.1	65.3	66.1	64.9	65.8	67.3	67.0	123.4
DATE 08/09/74	250	62.0	62.3	62.0	60.3	79.2	78.1	75.9	79.1	73.0	70.0	69.2	69.3	68.8	70.1	70.0	125.9
RUN 723	315	63.9	64.3	64.0	63.0	62.0	78.0	75.9	79.2	74.0	74.1	72.2	71.9	74.0	73.2	71.0	127.6
TAPE A941	400	60.4	60.1	79.7	79.2	78.8	77.2	73.8	75.7	71.8	69.9	68.8	71.1	72.6	72.0	72.2	124.8
BAR 28.9 HG	500	81.2	82.2	79.7	78.7	79.7	80.8	75.5	76.6	75.1	70.8	72.0	72.9	74.5	75.0	74.0	126.5
(97631. N/M2)	630	89.0	86.5	90.5	90.6	93.4	89.9	88.3	85.4	85.2	77.5	78.5	82.4	86.1	84.4	84.4	137.2
TAMB 67. DEG F	800	99.8	97.4	103.2	103.4	106.3	104.4	101.8	97.9	99.2	87.2	90.2	96.3	98.9	97.5	97.3	150.5
(293. DEG K)	1000	101.1	99.7	106.5	106.5	109.6	109.4	104.3	101.1	101.6	89.6	93.3	102.4	104.1	94.5	94.4	154.0
TMET 65. DEG F	1250	91.8	92.1	98.0	102.1	104.1	104.4	102.0	99.9	95.1	88.4	88.1	92.9	94.9	93.4	90.2	149.2
(291. DEG K)	1600	92.8	93.4	99.2	97.4	103.5	108.2	104.0	98.4	99.2	96.5	91.5	94.1	92.3	89.6	89.5	150.9
MACT 15.08 GM/M3	2000	92.8	93.6	93.1	96.3	102.2	102.5	98.9	96.4	98.5	88.4	87.5	91.4	90.3	82.5	85.4	147.2
(.01508 KG/M3)	2500	94.8	95.4	95.1	99.3	100.2	101.1	97.7	94.9	91.3	88.3	82.8	85.9	84.9	83.4	85.2	145.6
NFA 9059. RPM	3150	95.1	95.5	96.2	98.3	101.6	102.3	98.9	96.1	90.5	87.6	81.4	82.3	83.0	82.3	85.4	146.6
( 948. RAD/SEC)	4000	97.9	98.2	97.0	97.4	100.1	102.3	97.1	92.8	87.9	83.1	82.2	82.1	80.0	80.1	78.9	145.8
NFK 8990. RPM	5000	95.7	98.4	98.4	96.3	99.5	98.3	95.8	89.4	89.1	84.5	81.1	80.2	81.1	80.5	80.1	144.3
( 941. RAD/SEC)	6300	97.7	98.2	96.4	97.4	97.5	98.2	95.9	90.2	85.3	82.2	79.4	79.2	78.1	77.5	76.3	144.0
NFD 10628. RPM	8000	95.9	96.4	95.1	94.2	97.4	96.1	93.1	87.1	84.2	80.3	77.9	78.2	77.7	78.4	77.0	142.8
(1113. RAD/SEC)	10000	93.5	94.9	93.1	93.2	94.9	95.1	90.9	87.8	81.0	83.9	76.8	78.0	77.6	79.3	77.9	142.2
NO. OF BLADES 44	12500	91.2	90.6	89.7	89.7	91.6	91.4	87.1	84.4	77.3	72.6	72.6	73.3	71.3	73.6	71.5	139.6
	16000	87.5	87.3	85.8	85.2	88.8	89.1	84.9	83.9	76.0	78.2	72.8	75.0	73.6	76.2	73.9	139.3
	20000	82.7	84.5	81.5	81.2	85.4	86.2	81.8	85.1	76.2	83.3	75.2	78.0	76.1	79.5	77.4	140.5
OVERALL MEASURED		107.6	107.1	110.0	110.1	114.1	114.4	110.8	108.9	106.0	99.3	99.0	104.0	106.0	101.5	101.4	
OVERALL CALCULATED		107.8	107.7	110.6	110.6	114.2	114.7	110.9	107.4	106.7	100.0	98.4	104.7	106.1	101.2	100.8	
PWDS		120.0	120.4	120.8	121.4	124.5	125.3	121.6	118.7	116.9	112.2	108.0	112.7	113.6	109.6	109.5	159.4

723

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PWL
	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(		
50	79.6	80.7	81.0	80.1	78.9	77.9	76.5	77.9	77.8	75.8	74.7	73.9	74.8	76.1	74.2	77.7	126.9	
63	76.8	77.9	78.0	76.5	79.1	79.2	75.0	74.9	74.0	75.3	73.9	75.0	75.1	75.4	75.1	78.0	125.9	
RADIAL 100. FT. (30. M)	80	74.5	74.9	75.6	74.9	74.8	74.6	74.8	74.7	74.6	74.8	72.5	70.4	73.3	71.7	71.4	123.9	
VEHICLE ATT	100	74.8	73.1	74.2	72.1	73.8	72.9	70.8	71.8	71.9	70.0	69.8	69.0	68.7	72.0	71.2	121.3	
CONFIG 8-M IN	125	73.8	74.5	72.1	72.4	72.2	72.4	70.9	70.1	69.2	68.2	67.3	69.1	70.2	70.2	70.9	120.4	
LCC PTO	160	71.8	75.9	76.8	74.1	71.8	73.9	77.8	76.8	75.2	66.0	67.0	76.8	77.0	77.1	72.3	125.1	
DATE 08/09/74	200	74.6	76.1	75.0	73.1	74.2	72.0	70.7	70.2	69.0	67.1	65.9	67.1	66.8	68.9	67.1	120.2	
RUN 724	250	82.9	82.2	81.9	79.8	80.2	78.0	76.6	76.1	73.3	71.1	70.1	69.9	70.1	71.9	71.3	125.8	
TAPE A941	315	84.7	83.9	84.0	84.0	83.9	80.2	76.8	77.2	80.3	82.0	81.1	79.2	77.1	78.1	77.4	130.5	
BAR 28.9 HG	400	80.4	79.8	80.0	79.2	79.7	80.2	73.5	75.0	73.8	72.9	73.0	73.0	73.8	73.2	73.3	126.0	
(97631. N/M2)	500	86.3	81.9	82.7	83.9	88.4	91.0	79.6	84.9	83.7	81.1	81.9	84.0	79.7	79.9	75.2	134.5	
TAPE 67. DEG F	630	91.2	89.5	90.5	94.7	99.2	99.6	97.2	94.4	95.5	90.6	84.1	86.1	90.2	83.3	80.6	144.3	
(293. DEG K)	800	106.0	97.1	107.2	110.1	109.2	108.4	106.7	102.3	94.0	99.6	93.9	91.0	90.9	92.3	83.2	153.9	
WET 65. DEG F	1000	97.2	101.1	96.3	105.4	110.2	110.6	105.3	105.6	101.5	97.4	100.4	97.4	94.4	95.4	90.8	154.4	
(291. DEG K)	1250	94.9	97.2	99.3	103.5	108.6	106.3	104.0	102.2	96.0	90.4	91.2	90.3	87.9	93.2	83.5	151.7	
FACT 15.06 GM/M3	1600	92.9	93.2	98.7	100.6	103.4	104.5	99.9	96.1	92.4	91.3	91.1	84.0	87.3	88.6	84.3	148.1	
(.01508 KG/M3)	2000	93.9	94.1	98.2	100.3	100.3	100.2	98.9	94.4	94.4	90.3	87.5	83.0	87.2	84.6	85.0	146.0	
NFA 9507. RPM	2500	95.6	96.1	97.2	97.4	101.0	99.9	95.7	93.9	90.1	89.1	83.0	83.0	86.0	82.2	81.1	145.0	
(995. RAD/SEC)	3150	95.6	94.2	95.6	96.6	98.0	99.3	97.0	94.2	88.1	84.5	82.1	83.1	82.9	79.6	80.3	144.1	
NFK 9135. RPM	4000	97.8	98.1	97.2	97.4	99.2	101.3	96.9	91.9	87.2	81.0	81.0	82.1	81.0	80.4	79.0	145.2	
(988. RAD/SEC)	5000	95.8	98.4	98.2	95.4	98.2	97.2	93.9	89.4	86.2	84.2	82.3	80.3	81.1	79.3	80.6	143.3	
NFD10628. RPM	6300	96.7	97.3	95.4	96.4	96.2	97.1	93.9	89.1	84.3	82.2	80.0	79.3	77.9	77.6	77.5	142.9	
(1113. RAD/SEC)	8000	94.6	96.2	95.0	93.1	95.9	96.3	93.1	87.2	84.1	79.1	78.2	77.9	76.8	77.3	77.2	142.4	
NO. OF VALUES 44	10000	93.7	93.8	91.8	92.3	94.7	94.8	90.9	85.7	81.8	86.2	78.7	80.7	79.6	82.0	80.1	141.9	
OVERALL MEASURED	12500	90.2	90.2	88.0	88.8	90.5	91.4	87.5	81.4	77.6	73.4	72.2	71.6	71.1	69.5	70.6	139.0	
OVERALL CALCULATED	16000	86.5	86.2	85.0	85.0	87.7	88.7	83.0	78.0	74.8	74.0	71.8	71.9	71.6	70.0	70.1	138.0	
PNDB	20000	81.7	84.1	81.1	80.6	84.3	86.2	81.1	76.2	76.2	84.4	75.4	79.3	78.0	79.3	78.3	139.9	
		108.8	108.2	109.9	113.3	114.9	115.1	112.1	110.2	105.1	103.0	102.3	100.0	99.3	100.8	95.5	99.9	
		109.2	108.0	110.7	113.3	115.5	115.2	111.8	109.5	105.2	103.7	102.6	100.1	99.1	99.9	95.2	98.4	
		120.3	120.5	120.8	122.4	124.1	124.6	120.9	118.2	114.7	112.4	111.3	109.5	109.0	108.7	106.1	107.2	

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PHL	
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0, )	(0,17)	(0,35)	(0,52)	(0,70)	(0,87)	(1,05)	(1,22)	(1,40)	(1,57)	(1,75)	(1,92)	(2,09)	(2,27)	(2,44)	(2,62)			
50	80.4	80.3	81.3	79.7	78.6	77.9	78.4	78.4	77.5	74.8	74.8	75.8	75.6	75.7	77.0		127.3	
63	77.8	78.1	77.0	77.0	78.7	79.1	79.9	79.6	74.0	76.7	75.1	75.9	79.0	75.2	74.0	75.1	126.5	
RADIAL 100. FT. (30, M)	80	74.5	74.9	75.2	74.8	73.6	72.1	75.6	74.5	74.7	75.6	74.5	72.5	70.8	72.7	71.6	72.6	124.0
VEHICLE ATT	125	74.5	74.5	71.9	72.5	72.9	73.2	71.2	69.8	69.1	68.2	67.5	69.2	71.4	69.2	70.3	71.2	123.6
CONFIG B-H IN	160	74.7	75.1	74.8	73.0	72.7	76.2	74.1	80.7	74.1	68.6	71.2	77.0	78.8	74.9	69.9	71.1	125.6
LOC PTO	200	74.1	75.1	74.9	73.4	74.0	73.3	72.9	70.8	69.9	68.7	66.9	68.1	68.9	69.2	67.1	69.0	120.9
DATE 8/09/74	250	82.0	81.9	81.9	80.3	80.0	79.4	78.1	75.8	74.2	72.8	71.9	71.0	71.1	72.4	72.2	74.3	126.4
FUL 725	315	84.1	84.1	82.0	89.4	88.0	89.0	87.1	88.8	89.1	85.8	87.1	86.2	82.2	83.0	85.4	86.0	137.4
TARE	400	85.1	81.1	82.0	82.4	83.1	81.4	79.8	78.6	79.9	74.9	76.2	74.2	77.2	74.3	77.1	75.3	129.1
BAR 28.9 HG	500	85.8	91.9	93.7	94.7	96.7	95.0	92.6	92.4	92.8	83.7	87.8	83.9	88.8	81.7	87.1	82.9	141.6
(97631. N/M2)	630	86.1	88.6	90.8	94.4	101.9	101.4	99.0	93.9	91.2	93.3	89.3	81.2	89.4	89.5	89.3	87.4	145.7
TAMH 67. DEG F	800	103.1	97.3	107.7	111.0	111.0	107.3	106.7	101.6	100.1	101.1	95.1	86.9	92.2	93.1	87.1	97.0	154.6
(293. DEG K)	1000	94.1	96.2	97.2	99.3	106.0	103.5	100.2	98.1	94.1	93.3	94.4	95.3	92.4	84.4	87.4	87.5	148.9
TWET 65. DEG F	1250	94.2	97.1	98.7	104.4	107.8	106.2	104.0	98.8	93.3	93.1	94.2	93.3	92.1	90.3	88.2	87.5	151.1
(291. DEG K)	1600	94.3	96.1	99.9	103.3	103.0	104.3	99.9	96.7	90.2	86.2	85.3	84.3	87.5	88.2	93.2	84.1	148.2
FACT 15.08 GM/M3	2000	95.4	96.3	97.2	99.6	103.1	102.4	98.1	94.9	91.4	89.2	86.4	85.1	87.5	84.5	83.4	86.2	146.8
(.01508 KG/M3)	2500	94.8	95.0	94.8	98.0	101.9	100.1	96.7	92.6	89.3	86.9	83.1	82.2	86.2	88.9	81.2	80.2	145.2
NFA 9768. RPM	3150	95.4	95.5	95.3	95.3	97.1	98.6	95.0	91.9	86.3	84.1	81.4	80.2	80.2	79.2	80.4	79.4	142.9
(1023. RAD/SEC)	4000	96.0	97.2	96.9	97.0	99.9	100.1	95.8	89.9	86.1	82.7	80.8	82.1	83.0	88.0	79.2	80.1	144.7
NFK 9694. RPM	5000	95.4	97.6	97.9	95.7	98.2	95.3	95.0	89.1	87.5	84.2	80.4	80.4	81.5	78.2	79.5	76.4	143.2
(1015. RAD/SEC)	6300	97.1	96.2	95.1	96.4	97.0	97.2	95.1	89.2	84.1	83.9	79.4	79.2	79.3	77.2	77.5	77.3	143.1
NFD 10628. RPM	8000	95.1	95.2	94.8	93.2	95.8	95.0	93.1	86.7	84.1	79.9	78.1	78.1	78.2	77.4	77.2	76.9	141.9
(1113. RAD/SEC)	10000	92.7	93.7	91.7	92.0	93.4	93.7	90.7	84.3	82.8	87.8	79.0	81.0	82.0	81.8	81.0	81.8	141.4
NO. OF BLADES 44	12500	88.3	88.4	87.6	88.7	91.3	90.4	88.3	80.0	76.5	74.4	71.7	70.6	71.7	71.3	70.5	71.7	136.9
	16000	86.0	86.0	83.5	84.9	87.8	87.1	83.6	77.6	73.9	73.9	67.9	69.9	71.2	71.9	69.4	71.2	137.3
	20000	80.9	84.0	79.1	81.2	84.9	84.4	80.1	75.8	76.3	85.2	74.3	78.3	78.1	79.3	78.1	78.2	139.6
OVERALL MEASURED	107.8	107.0	110.6	113.3	114.7	113.4	110.0	107.0	104.0	103.1	101.3	99.1	100.2	98.0	97.1	100.0		
OVERALL CALCULATED	108.2	107.4	110.7	113.6	115.3	113.5	111.2	106.9	103.9	103.8	100.9	99.3	99.8	98.1	96.8	99.5		159.3
PNUB	120.4	120.2	120.8	122.9	124.7	123.9	120.6	116.7	113.7	112.9	109.7	108.6	109.8	107.8	106.5	108.9		

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY) PROC. DATE - MONTH 8 DAY 19 HR. 18.8

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	80.4	81.7	81.5	80.5	79.1	78.9	78.4	78.4	78.5	78.5	75.8	75.8	76.8	76.8	74.6	77.6	127.9
63	77.1	76.2	77.0	76.0	75.0	74.0	73.7	74.0	74.2	75.8	74.4	75.3	76.0	75.3	75.2	76.2	125.7
RADIAL 100. FT. (30, M)	80	74.5	75.7	75.6	75.7	74.4	75.6	76.4	74.3	75.5	75.8	71.8	70.8	72.9	72.6	72.8	124.4
VEHICLE ATT	100	74.0	72.9	74.0	72.9	73.7	77.3	71.8	71.7	71.8	70.6	68.8	67.9	70.9	70.9	70.1	122.0
CONFIG B-M IN	125	75.2	75.3	72.9	72.5	73.2	77.5	72.0	71.0	69.2	68.9	68.6	69.2	72.5	70.0	71.2	121.9
LDC PTO	150	74.8	77.0	72.8	73.2	77.6	81.0	78.7	83.7	79.0	76.8	74.3	75.0	76.1	74.2	69.2	128.0
DATE 8/09/74	200	75.1	75.9	74.7	73.3	74.8	76.3	73.7	74.0	71.2	70.0	67.9	69.1	70.1	70.0	68.1	122.3
RUN 726	250	84.0	82.2	81.9	81.3	80.8	79.4	78.7	75.8	74.2	72.8	72.4	70.1	72.1	73.3	72.0	126.8
TAPE A941	315	85.8	87.1	80.2	87.3	82.9	82.1	81.9	85.8	82.1	84.7	88.2	84.2	78.9	85.1	85.3	135.1
GAR 28.9 HG	400	83.9	81.2	83.0	83.1	82.0	80.1	80.0	78.6	76.9	75.1	78.3	75.2	76.3	76.2	76.3	129.8
(97631, N/M2)	500	94.6	94.9	96.5	100.0	96.0	96.1	96.0	93.5	91.8	83.7	89.1	81.7	86.0	76.0	86.0	143.7
TAMP 67. DEG F	630	86.0	89.5	93.0	93.2	97.3	99.3	100.9	89.2	87.0	95.2	87.7	90.3	91.6	88.5	88.5	144.8
(293. DEG K)	800	101.1	98.2	103.1	109.1	110.1	109.0	104.7	102.6	98.9	100.8	100.4	85.2	99.2	95.3	89.1	154.0
INLET 65. DEG F	1000	93.0	92.2	94.0	97.5	102.2	90.6	99.9	97.1	94.3	92.1	90.5	88.4	89.3	92.5	90.6	146.2
(291. DEG K)	1250	93.0	93.3	97.0	101.3	103.1	102.4	99.9	92.8	95.2	84.0	87.6	86.3	89.2	87.3	81.3	147.1
FACT 15.08 GM/M3	1600	90.2	91.1	93.1	104.3	103.9	104.5	98.9	94.8	93.4	95.9	87.8	88.3	85.3	89.5	85.4	148.6
(0.01508 KG/M3)	2000	96.2	95.3	96.2	100.4	103.4	102.1	98.3	94.3	92.3	91.3	89.7	88.5	88.5	84.5	84.5	147.0
RFA 9972. RPM	2500	93.1	93.0	93.0	94.0	99.8	98.1	95.7	91.9	88.1	83.6	83.1	81.2	83.2	85.2	82.2	143.2
(1044. RAD/SEC)	3150	94.4	93.3	93.2	93.3	96.2	97.3	94.9	90.0	85.3	83.9	80.5	81.2	81.3	78.2	79.4	141.8
RFA 9896. RPM	4000	96.1	96.1	95.0	94.4	98.7	99.4	97.0	89.7	87.1	82.9	81.2	81.1	82.1	78.9	78.1	143.9
(1036. RAD/SEC)	5000	94.1	96.5	93.2	93.6	98.1	97.2	94.3	88.1	87.2	83.2	81.4	80.5	82.3	80.5	79.4	142.8
RFA 10628. RPM	6000	94.1	94.1	92.8	91.6	95.1	95.1	93.1	86.7	84.0	79.1	78.2	78.3	78.5	77.2	77.2	141.8
(1113. RAD/SEC)	8000	91.9	92.8	89.9	91.3	92.8	93.8	90.7	84.6	81.7	88.6	79.0	82.0	82.9	83.1	81.8	141.2
NO. OF BLADES 44	12500	87.3	87.4	86.4	86.7	89.4	91.6	87.4	80.2	76.3	74.2	70.7	70.7	71.5	71.5	70.8	138.0
20000	84.9	83.3	81.7	82.9	86.8	88.2	83.8	77.6	72.9	71.8	67.9	69.7	70.2	71.8	69.9	72.3	137.1
OVERALL MEASURED	80.9	83.1	78.1	80.2	83.9	85.0	80.1	75.8	75.2	85.0	74.4	78.3	78.1	80.3	78.4	79.2	139.5
OVERALL CALCULATED	107.1	106.0	106.8	112.0	113.1	113.1	109.9	105.6	103.1	104.1	102.3	97.2	102.1	99.4	97.5	98.1	
PND8	119.1	119.1	118.9	121.8	123.6	123.2	120.7	119.9	113.4	113.2	111.5	108.8	110.9	108.5	109.8	109.9	158.3

REPRODUCTION OF THIS DOCUMENT IS PROHIBITED

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
RADIAL 100. FT. (30. M)	50	82.3	82.6	83.3	80.8	79.5	77.8	79.3	79.4	79.5	78.6	76.9	76.4	76.8	78.1	79.6	78.9	125.7
VEHICLE ATT	63	79.0	77.3	77.6	77.1	78.9	70.3	75.7	74.7	75.1	76.9	76.2	76.0	74.9	75.4	76.2	78.1	126.3
CONFIG B-H IN	80	75.4	75.7	75.3	74.7	73.5	71.8	75.3	73.4	75.7	76.3	73.6	69.8	70.8	71.9	72.7	72.6	125.8
LDC PTO	100	73.9	72.9	73.8	72.9	72.6	72.2	71.6	70.8	70.0	69.6	69.1	69.9	70.8	72.2	70.9	72.2	121.1
DATE 8/09/74	125	74.5	74.1	72.9	72.5	72.0	72.5	72.0	70.8	70.4	69.9	69.3	70.2	73.4	71.5	72.4	75.4	121.7
HUM 727	160	80.0	83.1	81.6	78.9	74.8	81.9	79.5	74.0	77.7	77.7	72.7	72.7	72.8	75.4	75.0	75.0	127.2
TAPE A941	200	82.9	87.0	84.7	82.3	78.9	85.3	76.9	83.6	77.6	81.7	76.1	73.9	73.2	78.2	78.2	77.2	130.6
RAR 28.9 MG	250	78.9	79.8	79.9	79.2	79.9	79.2	77.9	74.7	73.0	72.8	71.1	72.2	75.0	74.1	71.9	73.9	126.0
(97631. N/M2)	315	87.0	89.2	81.9	88.2	91.1	93.0	90.9	88.7	77.1	85.0	81.2	84.2	89.0	85.2	77.2	85.3	137.9
TAMR 67. DEG F	400	91.1	93.3	84.0	93.1	96.1	96.4	95.1	92.7	81.0	89.4	86.1	91.1	93.3	89.6	81.1	89.1	142.2
(293. DEG K)	500	91.9	97.9	98.6	104.2	103.8	103.2	102.7	97.6	91.0	82.8	93.9	82.0	87.9	89.2	90.5	97.1	148.7
NET 65. DEG F	630	88.6	91.3	93.9	97.2	96.0	95.2	95.0	90.0	86.2	81.9	89.1	80.3	83.2	82.9	89.4	85.3	141.6
(291. DEG K)	800	91.9	92.2	97.8	98.3	98.8	99.1	98.1	94.8	89.0	91.7	93.1	87.0	86.1	82.1	86.3	83.1	144.8
FACT 15.05 GM/M3	1000	93.4	91.4	98.2	99.2	100.2	100.2	100.2	97.1	88.4	93.1	91.4	88.5	81.3	81.3	86.2	82.2	146.0
(.01508 KG/M3)	1250	86.9	87.3	92.9	95.1	91.8	95.2	92.1	91.7	88.3	86.1	82.3	89.4	85.2	78.6	86.1	77.2	140.6
WFA 10800. RPM	1600	90.4	94.4	96.0	99.5	95.9	96.3	94.1	92.1	87.1	86.0	83.1	83.4	83.5	86.6	79.2	77.9	142.6
(1131. RAD/SEC)	2000	92.2	91.3	93.0	95.3	100.1	97.6	94.2	90.9	86.4	84.3	82.3	81.6	82.8	80.4	78.7	80.6	142.9
RFR 10718. RPM	2500	92.1	93.2	94.8	98.1	102.9	100.2	94.8	87.7	85.2	81.8	85.2	84.2	82.3	82.4	81.2	82.1	145.1
(1122. RAD/SEC)	3150	91.2	91.6	95.1	97.5	98.4	95.6	95.1	91.0	86.2	83.1	79.4	80.3	82.5	83.4	79.5	77.6	142.6
RFD 10628. RPM	4000	93.8	93.2	93.2	93.1	98.1	98.0	94.1	89.8	85.2	80.0	79.1	80.9	81.0	80.4	76.1	79.6	142.5
(1113. RAD/SEC)	5000	91.1	93.6	94.1	92.6	97.2	93.6	92.3	86.1	86.4	81.1	80.2	80.4	80.6	78.5	79.0	79.6	140.9
NO. OF BLADES 44	6300	93.3	92.2	91.0	92.3	93.2	93.4	91.3	86.0	82.2	80.1	77.3	78.6	77.5	76.6	76.1	75.2	139.4
15000	8000	90.3	91.2	91.1	91.3	93.9	91.6	90.0	84.5	82.4	79.2	76.3	78.3	78.5	77.4	77.2	74.3	139.3
10000	88.9	91.3	87.8	89.9	90.9	90.0	88.8	83.6	83.1	90.7	80.0	84.0	83.8	84.9	84.1	83.9		140.2
20000	85.2	89.4	83.1	85.7	87.5	86.7	84.2	78.1	76.5	81.2	73.3	75.4	76.6	77.1	75.0	74.5		135.0
OVERALL MEASURED	104.2	103.3	106.7	110.0	110.1	109.1	107.8	104.9	98.9	99.7	100.0	97.3	98.3	97.3	97.3	100.1		155.5
OVERALL CALCULATED	103.6	105.1	106.6	109.3	110.5	109.5	108.1	104.2	98.7	99.5	99.4	97.5	98.0	96.5	96.2	99.4		
PND8	116.8	117.4	118.6	120.7	123.4	121.8	119.0	115.1	110.5	109.0	108.0	108.0	107.9	107.0	106.0	106.5		

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MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

		0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PHL
	FREQ, (C)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	80.6	81.4	82.5	79.9	78.6	78.7	78.6	78.2	78.5	77.6	76.5	75.5	76.8	76.7	74.7	78.6	127.8
	63	78.9	77.9	77.8	76.0	77.9	79.1	79.8	73.7	74.4	75.8	75.0	75.4	76.2	75.3	76.1	76.2	125.9
RADIAL 100. FT.	80	75.7	75.7	75.3	74.7	74.6	74.6	75.6	74.3	74.8	75.4	74.7	73.0	70.4	72.6	71.7	72.7	124.0
( 30. M)	100	74.7	73.0	73.9	72.9	73.9	73.0	71.9	71.6	71.8	70.7	69.9	68.1	70.9	71.2	71.2	72.2	121.5
VEHICLE ATT	125	76.0	75.2	72.8	72.5	73.9	74.2	72.0	72.0	69.3	69.0	69.2	69.4	72.2	70.5	71.4	71.9	121.5
CONFIG B-H IN	160	78.0	75.0	75.6	71.0	73.6	79.2	74.7	82.7	77.1	74.7	75.8	73.0	76.9	75.0	68.3	71.9	126.7
LOC PTO	200	76.1	75.2	74.7	73.3	74.8	74.0	72.7	73.6	69.9	68.7	68.2	68.0	70.2	70.3	68.3	69.0	121.6
DATE 6/09/74	250	82.8	81.9	81.9	81.2	80.8	79.3	78.8	73.8	74.3	72.7	74.0	71.1	72.0	73.3	73.1	74.3	126.9
HUM 72.9	315	87.1	86.3	90.8	90.1	84.7	81.0	79.0	84.5	81.8	83.7	88.0	84.2	78.3	84.1	89.4	85.2	135.2
TAPE A941	400	81.9	81.0	82.7	84.3	82.0	82.1	80.8	78.7	77.2	74.9	77.9	75.0	76.2	78.2	77.0	78.0	129.4
BAR 28.9 HG	500	94.9	93.8	92.7	97.1	94.4	96.1	94.8	91.7	89.9	81.5	87.1	83.9	84.0	76.0	85.0	90.8	141.7
(97631. N/M2)	630	88.1	89.1	94.2	94.8	93.7	96.4	99.3	88.0	89.3	94.1	88.5	90.3	89.3	88.5	89.3	87.6	143.3
TAMB 67, DEG F	800	102.0	99.2	104.7	109.3	108.7	108.4	101.9	100.6	96.2	100.7	100.1	85.0	97.3	93.3	89.4	93.3	153.2
(293, DEG K)	1000	97.1	91.2	98.9	97.5	100.3	100.5	99.2	95.9	95.3	92.0	89.3	89.4	90.5	91.3	90.4	85.5	146.2
TWET 65, DEG F	1250	97.1	93.0	96.0	102.3	102.9	104.4	101.1	94.7	96.0	86.0	90.2	86.3	91.3	89.4	84.0	82.3	148.2
(291, DEG K)	1600	93.3	93.4	95.8	103.3	103.0	104.5	98.9	95.1	92.5	95.9	88.2	86.4	86.1	90.3	86.4	84.4	148.2
WACT15.08 GM/M3	2000	96.1	94.5	97.0	99.5	102.7	102.5	97.0	95.0	92.5	91.3	89.6	88.4	87.4	85.3	84.9	84.3	146.6
(.01508 KG/M3)	2500	93.0	93.0	92.6	93.3	97.9	99.1	97.0	91.9	87.9	83.9	82.9	83.0	84.9	81.2	80.2	79.0	143.3
NFA 9970, RPM	3150	93.2	92.5	93.2	93.6	95.2	98.3	95.0	91.3	88.4	82.9	80.2	81.5	81.4	78.5	78.5	78.6	142.2
(1044, RAD/SEC)	4000	97.1	95.9	95.0	95.2	97.0	100.1	95.0	89.1	86.0	81.6	80.2	80.2	81.2	79.0	78.5	81.2	143.5
LFK 9894, RPM	5000	94.2	96.5	96.3	93.7	97.3	97.3	94.1	88.1	88.5	83.9	80.2	79.6	82.5	79.5	80.5	76.6	142.6
(1036, RAD/SEC)	6300	96.1	95.2	93.0	93.6	95.2	97.5	95.0	87.9	83.3	81.6	78.1	78.5	78.1	76.2	77.5	76.3	142.3
LFK10628, RPM	8000	93.0	94.0	92.9	91.6	95.0	95.2	92.9	86.8	83.3	79.8	78.3	78.2	78.1	76.4	77.2	75.3	141.4
(1113, RAD/SEC)	10000	91.9	93.0	89.8	89.9	92.5	92.7	89.7	84.4	81.9	88.6	79.2	81.8	82.7	82.7	82.0	82.0	140.7
NO. OF BLADES 44	12500	88.5	88.4	86.3	86.7	89.3	91.4	87.5	79.2	77.2	74.2	71.5	71.5	76.5	71.7	78.4	69.8	138.0
	16000	85.0	83.9	81.6	82.2	87.0	87.1	83.6	76.6	72.9	73.8	68.8	70.0	71.0	71.9	69.0	68.2	136.6
	20000	80.9	83.3	79.1	79.2	85.0	84.4	81.1	75.8	76.0	85.2	75.3	78.2	78.2	79.4	78.4	78.2	139.6
OVERALL MEASURED		107.8	106.3	107.9	112.0	111.9	113.2	108.8	104.6	103.3	103.7	102.2	98.2	99.8	99.3	97.3	98.3	
OVERALL CALCULATED		107.6	105.4	108.7	112.2	112.5	113.1	109.2	105.2	103.1	103.9	102.2	97.3	100.6	96.7	97.3	98.0	157.9
PNOB		119.6	119.9	119.3	121.5	122.5	123.6	120.0	115.9	113.6	113.1	111.3	108.7	110.1	108.7	107.0	107.3	

	FREQ. (0.1)	ANGLES FROM INLET (IN DEGREES (AND) RADIANS)																PNL
		(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
	50	81.6	82.7	83.4	81.7	79.5	79.9	80.2	80.2	79.7	78.5	77.0	76.8	77.9	78.1	75.9	80.8	129.1
	63	77.4	77.1	77.9	76.0	77.7	78.3	75.2	74.8	74.9	76.9	76.2	75.8	74.9	75.1	78.9	78.4	128.1
RADIAL 100. FT.	80	74.5	74.9	75.3	74.7	73.8	74.0	74.8	73.2	75.4	75.5	73.4	69.9	69.8	71.7	72.0	73.5	123.5
(30. H)	100	72.1	72.1	74.6	73.0	72.7	72.2	71.5	70.5	71.1	69.8	68.9	69.9	71.1	70.8	70.0	72.1	121.1
VEHICLE ATT	125	72.4	74.1	72.9	72.3	71.9	71.5	71.9	71.2	70.2	69.8	68.2	70.2	73.1	71.4	73.1	73.9	121.6
CONFIG B-M IN	160	72.9	74.1	82.6	79.0	74.8	82.2	75.9	79.7	74.9	78.7	73.9	72.9	72.8	76.1	75.9	74.1	127.6
LOC PTO	200	83.9	88.1	89.8	83.0	78.7	86.1	77.7	83.0	78.1	81.9	77.0	74.2	73.2	78.4	79.2	76.3	131.0
DATE 8/09/74	250	80.1	80.2	80.8	80.2	79.0	78.9	77.9	75.9	73.9	71.7	71.2	70.9	72.8	73.1	72.9	74.1	126.0
HUM 730	315	87.4	89.8	84.5	89.2	91.1	92.3	90.0	88.5	77.8	84.7	82.0	86.2	90.1	85.0	78.2	89.1	137.9
TAPE A941	400	91.0	92.3	87.0	93.3	95.9	96.4	95.1	92.9	81.1	89.1	86.3	91.3	94.0	90.1	82.1	89.4	142.3
BAR 28.9 HG	500	90.8	96.9	100.7	105.9	103.7	102.9	102.1	98.7	92.7	84.6	92.7	83.0	87.8	89.0	90.8	96.8	148.9
(97631. N/M2)	630	88.2	92.2	98.0	98.6	96.0	95.2	94.9	91.2	87.2	82.2	90.5	82.2	85.2	83.4	85.9	89.4	142.2
TAMB 67. DEG F	800	92.9	94.2	97.7	101.1	100.7	103.3	99.7	96.6	89.2	91.1	94.3	88.3	87.2	83.1	87.1	84.3	146.3
(293. DEG K)	1000	93.3	91.2	94.9	101.6	103.3	101.6	100.9	97.9	90.3	93.3	91.5	88.2	81.4	82.5	89.2	82.9	147.4
TWET 65. DEG F	1250	88.2	89.3	94.1	96.4	95.1	95.5	89.8	91.0	87.3	87.1	82.1	86.3	84.1	80.2	80.9	79.1	141.1
(291. DEG K)	1600	93.1	92.4	98.0	99.6	97.2	96.3	92.0	89.1	86.1	85.0	82.4	84.1	82.4	82.4	81.4	79.3	142.5
HACT15.08 GM/M3	2000	92.2	91.5	92.2	96.4	99.2	97.7	93.3	90.0	87.7	84.3	82.5	80.6	83.5	80.3	79.2	86.5	142.6
(.01508 KG/M3)	2500	93.9	93.1	96.0	96.4	103.9	100.2	95.7	92.7	85.9	83.9	82.2	81.1	83.9	83.1	80.7	82.0	145.6
NFA10800. RPM	3150	91.5	91.5	93.0	95.6	99.2	96.5	95.0	93.1	88.1	83.3	79.5	81.4	82.2	79.4	80.9	79.3	142.9
(1131. RAD/SEC)	4000	93.1	93.2	93.7	93.4	98.0	97.1	93.8	89.0	85.2	80.2	79.2	81.1	82.2	80.1	78.5	79.1	142.2
NFK10718. RPM	5000	91.4	94.3	95.0	93.4	97.1	94.5	92.1	87.1	87.2	83.3	80.5	80.4	81.3	79.4	80.9	79.9	141.3
(1122. RAD/SEC)	6300	93.0	92.3	91.0	93.5	94.2	93.9	92.0	85.8	82.5	80.1	77.2	77.4	77.3	76.5	76.4	75.9	146.0
NFD10628. RPM	8000	91.2	91.1	91.0	91.3	93.5	92.4	89.8	84.7	82.4	78.0	76.3	78.5	79.4	77.2	77.2	75.1	139.4
(1113. RAD/SEC)	10000	89.7	91.9	88.8	90.2	91.5	91.0	89.0	84.6	82.8	80.7	80.8	84.0	84.0	85.1	84.0	83.8	140.6
NO. OF BLADES 44	12500	82.2	86.7	84.2	86.7	88.5	86.7	84.0	79.3	76.5	82.2	73.3	75.6	76.4	76.7	75.0	75.4	136.6
	16000	81.7	82.1	79.8	82.1	84.6	82.9	80.6	75.8	71.0	71.8	66.8	69.0	71.1	67.6	68.1	65.1	134.1
	20000	78.2	81.0	77.0	79.2	80.8	80.5	78.1	74.1	73.1	82.9	72.3	76.6	76.6	77.4	76.2	78.2	137.0
OVERALL MEASURED	104.0	105.3	107.1	110.1	111.1	119.2	108.7	103.0	99.9	100.0	99.9	97.3	99.1	97.0	98.0	100.2		
OVERALL CALCULATED	104.0	105.0	107.2	110.5	111.3	109.9	108.1	104.7	99.5	99.5	99.6	97.3	98.6	96.4	96.4	99.4		156.0
PNDB	119.6	117.4	118.8	120.4	124.1	122.0	116.9	116.1	111.6	109.2	108.4	107.3	108.4	107.0	108.2	108.0		

	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
		0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
	50	80.3	81.5	81.5	78.9	78.3	78.0	77.2	78.3	78.5	77.4	75.7	74.5	76.5	76.6	74.0	77.9	127.3
	63	78.1	79.0	77.7	76.1	78.7	80.1	75.8	73.7	74.8	76.0	75.0	75.2	76.2	76.3	74.1	76.0	126.1
RADIAL 100. FT. (30. M)	80	74.9	74.8	75.3	74.8	74.6	74.5	73.3	74.6	74.7	75.4	74.7	72.5	70.8	72.7	71.5	71.7	123.9
VEHICLE ATT	100	74.2	73.1	73.9	72.1	74.6	72.9	71.9	71.7	72.0	70.7	69.9	68.8	69.7	72.1	70.9	71.9	121.6
CONFIG 8-M IN	129	74.4	74.3	72.9	72.6	73.2	73.5	71.2	71.1	69.4	68.9	69.6	69.2	71.2	70.2	71.2	71.9	121.1
LOC PTD	160	76.1	73.8	73.9	72.0	72.6	76.3	73.7	80.8	74.3	69.0	71.8	76.6	77.5	73.1	71.1	71.2	125.2
DATE 8/09/74	200	75.0	76.1	75.7	73.1	74.0	73.1	72.9	71.9	70.0	67.8	66.9	68.0	69.4	69.3	68.4	68.3	121.1
NUM 731	250	82.1	82.2	81.9	81.3	80.7	79.1	77.9	76.5	75.2	72.8	72.1	71.0	72.1	73.1	72.3	74.0	126.8
TAPE A941	319	83.8	88.2	91.1	89.6	88.0	89.2	87.1	88.7	89.1	86.0	87.3	85.8	81.2	84.4	85.9	85.9	137.5
HAR 28.9 HG (97631, N/M2)	400	80.1	82.0	82.8	81.4	81.8	81.1	79.0	77.9	79.2	74.8	76.1	74.3	76.3	74.2	76.2	75.9	128.6
TANR 67, DEG F (293, DEG K)	500	88.0	93.0	92.5	92.9	95.3	93.0	91.6	90.7	92.9	82.8	86.1	84.0	88.1	81.9	85.7	83.7	140.5
TLET 65, DEG F (291, DEG K)	630	88.1	86.6	91.1	95.6	101.9	100.3	98.2	93.9	91.2	92.2	89.2	81.1	88.3	89.4	88.5	87.4	145.2
MACT 15.08 GM/H3 (.01508 KG/H3)	800	102.9	97.9	108.0	111.2	110.7	107.3	106.1	101.3	100.1	99.7	95.2	86.9	90.3	92.0	88.1	97.1	154.4
MFA 9770, RPM (1023, RAD/SEC)	1000	93.1	90.3	95.2	99.5	106.2	104.3	102.0	98.8	95.2	96.2	96.3	95.5	92.3	84.2	84.5	89.3	149.5
MFD 10628, RPM (1113, RAD/SEC)	1250	97.2	96.3	93.9	103.5	107.8	106.4	105.2	99.6	93.0	92.8	92.1	93.1	91.2	89.3	85.1	98.3	151.2
NO. OF BLADES 44	1600	92.4	95.4	97.2	101.6	103.1	103.5	101.0	96.8	92.5	86.9	86.5	84.5	87.3	87.5	83.1	85.4	147.8
	2000	97.1	95.2	98.3	97.5	104.1	104.5	100.0	96.2	92.3	90.1	88.4	86.2	89.2	85.2	84.2	85.3	148.1
	2500	95.8	94.9	93.7	95.2	102.0	101.3	96.8	90.7	87.9	86.8	82.8	83.1	84.1	80.2	79.7	78.2	145.2
	3150	94.2	93.5	94.0	95.6	99.1	100.3	96.3	93.9	88.1	84.0	81.4	80.1	81.4	79.4	80.5	79.5	144.3
	4000	98.2	97.2	97.0	94.2	99.9	101.2	95.9	89.7	87.1	82.9	84.1	81.1	80.8	79.2	79.2	79.2	145.0
	5000	95.3	97.5	97.0	94.7	98.4	98.4	95.3	90.0	89.5	84.1	81.4	80.5	82.4	79.2	80.6	76.6	143.7
	6300	97.4	96.2	95.0	95.3	97.3	99.3	96.1	89.1	84.1	83.1	79.1	79.2	79.1	77.3	77.4	77.4	143.9
	8000	95.4	95.4	95.0	93.3	96.1	96.4	94.0	86.7	84.3	80.1	78.3	78.4	77.2	76.4	76.4	76.4	142.6
	10000	93.0	93.7	91.5	92.2	93.7	94.0	91.6	85.3	81.9	88.8	79.0	82.1	82.0	82.6	81.0	81.0	141.8
	12500	89.6	89.7	87.2	88.7	90.3	91.0	88.3	81.2	77.5	74.6	71.8	70.6	71.4	69.5	70.5	69.5	139.1
	16000	86.8	86.2	83.7	85.2	88.6	88.9	84.9	77.6	73.1	74.0	69.2	69.9	76.9	67.9	69.3	67.9	138.3
	20000	81.4	84.3	79.9	80.4	86.0	86.2	81.0	76.2	76.3	85.1	75.2	78.5	78.3	79.3	78.4	78.2	140.2
OVERALL MEASURED		107.9	107.1	109.7	113.0	115.1	114.0	110.8	106.7	104.1	103.0	101.3	99.3	100.8	97.3	97.1	100.0	
OVERALL CALCULATED		106.1	107.5	110.4	113.3	115.3	114.0	111.7	107.1	104.3	102.8	101.2	99.3	99.2	97.7	96.0	99.7	159.4
PND8		120.4	120.1	120.5	122.5	124.9	124.9	121.4	117.4	114.0	112.2	110.1	109.7	109.9	107.5	106.5	105.0	



	ANGLES FROM INLET IN DEGREES (AND RADIANs)																PWL
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	
FREQ. (0,1)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	
50	79.7	80.7	81.3	80.8	78.3	77.6	77.6	78.5	77.5	76.3	75.6	74.9	75.6	75.7	74.5	78.6	127.2
63	78.0	77.1	76.9	77.2	77.7	77.1	76.0	75.0	74.9	75.2	75.0	75.0	76.0	76.2	75.1	76.0	126.0
RADIAL 100, FT. ( 30, M)	80	75.4	75.5	75.2	75.8	74.5	74.9	75.7	74.6	74.7	75.6	75.6	72.7	71.6	72.8	71.6	124.3
VEHICLE ATT	125	75.0	73.8	74.6	73.3	74.6	72.9	72.1	71.8	72.0	71.6	68.8	68.1	70.2	71.2	71.8	121.7
CONFIG B-M IN	100	71.7	73.5	75.9	74.8	75.0	74.2	76.7	76.8	76.1	65.7	68.2	76.0	77.2	76.8	73.7	125.2
LOC PTO	200	74.8	74.9	74.0	72.4	75.0	72.3	71.7	68.9	69.1	66.9	66.0	65.9	68.0	68.3	67.6	120.2
DATE 8/09/74	250	82.0	82.1	81.9	80.3	80.7	78.0	77.2	74.9	74.3	71.7	71.0	69.3	71.2	71.4	71.2	126.0
HUM 732	319	84.1	84.1	84.6	86.3	85.8	82.3	77.8	77.7	80.9	83.6	82.2	80.1	78.2	79.1	77.0	131.8
TAPE A941	400	80.9	79.0	79.9	80.2	80.9	79.9	74.8	74.5	74.2	72.9	72.3	74.0	75.3	73.4	73.1	125.3
EAR 28.9 HG	500	86.5	86.0	82.7	83.8	88.8	90.8	79.8	83.4	82.9	80.5	81.2	53.7	81.4	80.0	74.7	134.2
(97631, N/M2)	630	90.4	88.5	89.9	92.6	97.5	98.6	97.1	92.0	94.2	90.0	83.1	84.2	89.4	82.4	80.9	143.2
TAHR 67, DEG F	800	105.2	99.9	106.9	109.1	108.7	107.0	106.8	100.9	93.2	99.7	92.2	90.0	95.2	92.9	78.1	153.3
(293, DEG K)	1000	97.4	101.1	94.8	105.5	109.2	104.2	106.3	104.6	101.4	96.0	101.2	97.2	96.3	96.3	98.3	153.9
TWET 65, DEG F	1250	95.1	95.3	99.0	102.2	108.1	106.2	104.9	101.0	96.1	93.1	91.1	90.4	90.3	93.2	81.1	151.3
(291, DEG K)	1600	92.0	93.4	97.8	98.3	102.9	104.5	102.0	96.8	93.6	91.1	91.2	84.1	88.3	88.5	84.4	148.2
MACT15.08 CM/M3	2000	95.3	93.4	97.3	99.5	100.1	100.6	100.2	93.9	92.4	90.6	88.3	82.4	88.7	85.5	85.5	146.1
(.01508 KG/M3)	2500	94.0	95.9	95.9	97.3	101.0	100.9	98.0	93.9	91.0	88.8	84.2	80.7	87.2	81.2	79.1	145.4
NFA 9504, RPM	3150	94.1	94.4	95.2	95.5	99.0	99.4	99.2	93.9	86.4	84.2	82.4	82.4	85.3	79.4	80.2	144.7
( 999, RAD/SEC)	4000	98.0	97.2	96.9	96.5	98.8	102.0	97.8	92.6	87.1	82.7	81.8	81.1	82.0	80.2	78.8	145.5
NFK 9432, RPM	5000	90.3	93.4	98.3	94.6	97.4	97.3	96.1	89.1	89.4	85.1	82.2	79.3	81.5	79.5	80.5	143.5
( 987, RAD/SEC)	5300	97.0	96.2	95.1	95.6	96.2	97.2	95.2	89.1	84.1	83.1	79.4	79.5	78.5	77.3	76.4	142.9
NFD10628, RPM	8000	95.1	95.3	94.1	92.7	96.1	97.1	94.5	86.7	83.2	79.9	78.0	77.2	78.3	76.3	77.1	142.6
(1113, RAD/SEC)	10000	94.7	93.3	91.6	92.0	93.4	94.7	91.6	84.5	81.9	87.6	78.0	80.7	81.0	81.7	80.7	141.7
NO. OF BLADES 44	12500	90.6	89.4	87.3	88.9	89.3	91.4	88.3	81.2	76.3	73.1	70.4	70.4	71.6	65.5	70.2	138.8
	16000	88.8	89.9	83.7	83.9	87.8	84.1	84.9	77.8	73.1	74.8	69.8	70.9	72.1	69.0	69.0	138.1
	20000	81.9	84.3	80.1	80.5	85.2	85.3	81.1	76.0	76.3	85.3	75.0	78.1	78.4	79.2	78.2	139.9
OVERALL MEASURED	108.8	108.2	109.6	112.3	114.8	115.0	113.2	108.7	104.9	102.7	102.3	99.9	101.4	100.0	95.3	99.2	
OVERALL CALCULATED	107.3	107.7	110.0	112.5	114.9	114.5	112.7	108.7	104.9	103.4	103.0	99.7	101.1	100.3	94.0	99.3	159.7
PNDB	120.4	120.0	120.5	121.6	123.9	124.8	122.5	117.6	114.3	112.5	111.8	109.0	110.4	109.0	109.9	108.5	

732

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIANS)

PROC. DATE - MONTH 8 DAY 19 HR. 18.9

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	)	
50	79.8	80.3	81.4	81.8	78.7	78.9	78.5	78.2	77.9	77.5	75.5	75.5	78.8	78.0	77.1	79.6	128.1
63	77.1	77.1	76.9	78.2	77.7	77.3	75.8	75.0	74.0	75.0	73.9	75.1	76.0	75.2	74.1	76.2	125.8
RADIAL 100. FT. (30. M)	80	73.5	74.8	75.3	76.9	74.4	74.9	75.4	75.2	73.7	74.3	74.7	72.5	71.7	71.8	70.8	123.9
VEHICLE AYT	100	74.8	73.9	73.8	74.1	74.6	72.9	71.6	80.5	72.2	71.6	69.8	69.2	70.3	73.8	73.2	123.9
CONFIG B-M IN	125	73.3	73.6	71.2	73.3	72.0	72.5	71.9	70.8	68.5	68.9	67.1	69.6	71.6	70.1	70.5	120.6
LOC PTO	160	75.0	73.2	74.6	73.9	73.0	73.0	79.4	70.5	70.1	74.1	72.8	74.0	77.9	71.2	73.6	124.4
DATE 8/09/74	200	75.1	76.1	74.7	73.0	72.7	71.3	71.0	71.6	68.0	66.7	64.3	64.2	66.0	66.9	65.4	119.7
RUN 733	250	83.0	82.1	81.6	80.0	79.8	78.1	77.8	74.8	72.9	70.7	69.0	68.4	70.4	70.2	70.5	125.6
TAPE A913	315	84.1	84.1	83.9	82.2	82.0	78.0	77.8	78.6	75.9	74.1	71.1	70.4	74.0	74.3	71.5	127.7
RAK 28.9 HG	400	79.8	80.1	80.7	79.1	78.1	77.1	74.8	72.7	72.1	69.9	69.3	69.4	73.5	72.4	72.4	124.7
(97625, N/M2)	500	80.6	81.0	81.4	78.7	78.5	78.0	74.7	75.5	73.9	71.6	71.1	71.2	75.3	74.6	74.1	125.8
TAMP 66. DEG F	630	88.5	88.3	91.0	89.4	93.2	91.2	89.5	84.0	84.3	79.6	79.3	82.1	88.5	83.3	84.5	137.5
(292, DEG K)	800	98.8	98.8	102.7	101.3	105.7	107.0	103.0	98.9	97.6	98.9	92.3	97.1	100.1	97.1	96.4	156.6
TWET 64. DEG F	1000	101.2	99.2	106.1	103.2	110.0	109.4	106.2	101.9	100.2	93.2	93.4	101.2	105.3	94.5	94.2	154.3
(291, DEG K)	1250	92.1	92.1	99.7	101.1	104.1	105.3	103.2	99.0	97.2	91.9	88.4	92.0	95.1	92.0	90.3	149.6
MACT 14.57 CM/M3	1600	94.5	95.1	99.9	100.5	103.0	106.3	104.0	98.1	98.4	96.2	91.4	94.4	94.5	89.3	91.5	150.2
(0.1457 KG/M3)	2500	94.8	96.0	96.6	99.1	102.8	101.2	96.8	92.9	89.9	88.9	83.9	83.9	85.9	82.2	86.5	147.5
MFA 9058, RPM	3150	92.1	95.5	96.2	100.4	101.3	99.4	97.2	94.0	89.3	87.2	82.1	81.4	83.5	81.2	85.2	145.5
(948, RAD/SEC)	4000	98.9	98.2	98.6	98.1	101.4	101.4	96.8	89.8	86.7	81.9	81.1	82.1	82.0	80.1	79.0	145.6
MFK 8997, RPM	5000	98.2	99.4	98.6	96.4	99.4	97.3	96.3	89.1	88.0	84.3	81.4	80.5	82.3	79.2	80.8	144.2
(942, RAD/SEC)	6300	94.0	98.3	96.2	97.3	98.3	98.4	95.9	88.9	84.2	82.2	79.0	79.2	78.2	77.4	76.4	144.2
MFD 10628, RPM	8000	90.1	96.2	95.1	94.3	98.1	95.3	94.8	87.0	83.3	82.2	78.0	78.3	78.6	77.4	78.5	143.0
(1113, RAD/SEC)	10000	93.8	94.1	92.6	93.9	95.5	94.1	91.8	84.7	80.8	84.8	76.0	77.9	77.9	78.9	78.2	142.1
NO. OF BLADES 44	12500	91.6	91.5	89.2	89.6	92.2	90.5	88.3	81.2	76.6	73.2	70.5	70.5	71.5	69.5	70.4	139.5
	16000	88.1	88.0	85.9	86.0	87.7	86.2	85.6	77.7	75.0	79.8	76.9	73.3	73.0	73.9	73.0	139.0
	20000	83.0	84.1	81.9	81.5	87.2	84.3	81.2	75.7	75.3	84.1	74.1	77.4	77.5	78.2	76.6	139.8
OVERALL MEASURED	106.1	107.3	110.7	110.2	114.1	114.2	111.8	106.3	105.3	101.0	98.9	103.3	107.1	101.0	100.9	102.4	
OVERALL CALCULATED	108.0	108.0	110.7	110.5	114.5	114.3	111.7	106.7	105.6	101.1	98.8	104.0	107.2	100.8	100.7	102.1	
PNOB	120.7	120.6	121.2	122.5	124.8	124.2	121.9	115.9	115.9	112.6	109.0	112.0	114.7	109.3	109.0	110.1	159.4

REPRODUCIBILITY OF THE ORIGINAL FACT IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

	ANGLES FROM INLET (IN DEGREES (AND RADIANS))																PWL	
	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0.17)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.80)		
50	76.6	76.7	77.2	80.9	75.3	74.7	74.4	73.1	73.0	72.5	71.5	70.8	72.5	72.7	71.9	73.5	124.0	
63	77.0	76.1	76.0	79.3	76.9	78.2	74.6	72.7	73.1	74.6	71.9	72.0	72.2	71.9	71.2	70.9	124.3	
RADIAL 100. FT. (33. M)	80	75.7	73.3	74.3	77.0	73.8	72.6	73.5	72.4	71.0	71.6	71.5	71.8	70.6	70.6	68.6	70.8	122.1
VEHICLE ATT	100	74.6	74.1	73.9	75.0	72.6	72.0	70.9	69.5	70.0	68.7	70.8	70.8	71.0	73.8	70.9	72.1	121.4
CONFIG 8-M IN	120	74.0	74.1	71.2	73.2	69.2	70.6	69.9	66.7	67.2	65.2	64.2	67.6	69.0	67.2	67.4	68.3	118.5
LDC PTD	160	71.6	67.3	69.0	70.2	67.9	66.0	67.0	64.4	65.0	61.9	62.8	64.2	65.9	63.9	62.9	63.3	115.5
DATE 8/09/74	200	76.0	74.9	74.7	72.3	71.9	70.4	68.9	66.6	66.8	65.1	64.0	62.9	64.0	65.1	63.2	63.9	118.2
RUN 734	250	82.1	81.1	80.9	79.9	78.9	78.1	77.0	74.8	74.1	71.9	70.8	67.1	69.0	68.0	68.9	69.0	125.2
TAPE A913	315	83.9	83.3	83.7	81.1	79.7	77.2	74.8	72.5	71.9	69.9	66.9	65.9	68.9	68.0	67.0	69.1	125.5
BAR 28.9 HG	400	80.9	80.1	80.8	79.3	77.9	70.3	74.0	70.8	71.2	70.0	68.9	67.0	70.2	69.3	68.2	70.1	124.0
(97629, N/M2)	500	78.9	79.0	78.7	76.1	74.7	73.0	71.5	69.3	68.6	66.7	67.2	65.9	68.0	69.0	68.1	67.8	121.6
TAMP 66. DEG F	630	83.5	84.0	84.9	82.5	81.8	77.4	76.2	73.6	73.4	71.2	70.3	70.4	70.4	69.2	69.2	69.2	127.0
(292. DEG K)	800	83.1	82.1	83.7	84.2	83.6	81.2	78.0	78.6	74.1	77.8	74.0	78.1	73.0	72.0	69.3	69.2	129.0
TWT 64. DEG F	1000	84.3	83.3	84.9	83.2	83.9	82.4	81.2	75.9	74.1	75.9	74.2	76.4	75.4	71.2	72.2	70.1	129.4
(291. DEG K)	1250	87.2	86.2	86.6	84.2	85.7	86.5	85.1	82.8	82.4	80.9	79.2	80.1	83.0	79.3	74.7	71.3	133.3
FACT 14.57 GH/M3	1600	86.0	86.3	86.1	86.5	87.2	87.5	83.2	82.9	82.2	78.2	75.3	75.1	78.5	76.5	73.0	72.6	133.2
(91457 KG/M3)	2000	87.0	87.3	88.3	87.3	89.2	89.7	85.1	81.2	79.4	78.2	77.3	77.2	74.4	72.2	72.2	75.5	134.5
MFA 7476. RPM	3150	89.0	90.0	89.8	91.4	93.7	94.2	90.0	89.7	83.0	80.0	77.2	76.9	78.2	74.2	75.2	75.2	138.4
(783. RAD/SEC)	4000	93.1	92.3	93.1	93.3	92.3	94.6	91.3	88.0	83.7	81.3	75.1	76.4	78.4	75.1	75.4	75.4	139.3
MFR 7426. RPM	5000	96.1	94.9	94.8	95.0	96.0	98.2	94.1	87.6	84.0	78.8	78.0	78.0	79.9	76.3	75.0	78.2	142.2
(778. RAD/SEC)	6300	94.5	96.2	96.4	94.5	96.0	98.6	94.1	86.8	86.4	84.2	79.4	78.5	80.4	77.4	78.4	76.6	142.1
MFR 13628. RPM	8000	96.2	95.1	94.0	95.3	95.2	95.3	93.0	84.8	82.3	81.0	76.4	76.4	75.4	75.1	74.3	75.2	141.3
(1113. RAD/SEC)	10000	95.6	95.4	94.3	93.3	94.9	93.5	90.9	82.8	81.2	79.2	75.0	76.3	76.0	75.4	75.3	74.2	140.8
NO. OF BLADES 44	12500	92.8	94.8	93.7	93.0	93.8	91.9	89.5	81.5	77.8	74.6	71.7	71.7	72.0	71.7	71.0	71.9	140.5
20000	16000	91.3	91.6	89.6	90.7	90.5	89.9	86.5	78.1	73.7	74.2	69.4	69.6	69.6	69.4	69.3	69.7	138.8
OVERALL MEASURED	104.2	103.9	104.0	105.4	104.1	104.4	100.6	95.4	93.3	92.7	90.2	90.2	91.0	89.3	88.9	90.0	90.9	138.4
OVERALL CALCULATED	103.9	104.0	103.6	103.3	104.1	104.5	101.4	95.6	93.4	91.7	88.3	88.9	89.8	87.7	86.7	86.9	85.9	135.1
PNOB	117.1	118.7	116.8	116.4	117.2	117.2	114.7	109.3	107.1	104.9	101.4	101.4	102.7	100.0	99.9	100.3	150.6	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 16.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )
50	80.5	80.8	80.1	77.7	76.9	76.0	75.9	77.1	76.2	76.7	75.2	74.5	75.0	76.0	74.9	77.1	175.5
63	77.7	80.3	79.1	76.2	80.5	77.2	71.2	72.9	72.5	75.2	76.0	72.7	75.3	76.8	77.0	77.5	176.6
RADIAL 100. FT. (30. H)	80	75.3	70.6	70.0	68.4	70.0	67.7	66.8	66.4	66.0	69.4	68.7	65.6	64.7	65.7	67.0	177.6
VEHICLE ATT	100	69.9	67.2	65.8	67.0	67.1	66.0	65.9	67.0	66.3	65.1	65.8	66.5	65.8	66.6	67.1	178.6
CONFIG T=0	125	67.4	67.3	66.6	66.5	69.5	66.5	67.3	67.2	66.7	65.6	67.4	66.3	67.4	65.3	70.1	179.9
LDC PTO	150	67.6	72.3	79.1	76.6	75.0	70.1	76.1	78.7	76.0	66.9	72.1	78.7	78.1	72.7	72.5	175.8
LATI 08/13/74	200	67.8	63.1	66.2	65.0	67.2	65.1	64.9	65.9	64.4	62.9	63.2	65.6	66.2	66.0	69.1	175.2
WIND 743	250	73.0	69.4	69.0	67.6	69.5	66.9	67.1	65.8	65.1	66.0	64.8	65.8	66.1	67.2	67.5	177.0
TAFF A778	315	72.1	73.3	76.9	79.7	81.5	83.7	82.0	78.6	78.4	80.0	77.3	82.0	75.9	80.0	82.0	176.4
WAD 29.0 MC	400	74.8	75.0	83.1	84.7	86.1	84.0	83.0	80.7	75.9	77.6	73.0	78.8	76.6	82.8	76.3	171.3
(07827. N/M2)	500	92.4	87.7	90.6	97.7	99.3	98.9	98.8	93.9	88.9	90.9	86.8	92.4	86.7	95.8	87.9	144.7
TAFF 76. DEG F	600	89.3	96.4	91.5	92.2	100.5	100.2	104.2	102.1	102.6	99.1	96.1	98.1	99.1	89.3	87.1	152.0
(299. DEG K)	800	104.0	103.3	107.0	107.0	107.2	108.2	101.2	95.1	96.1	106.2	96.2	86.5	63.8	93.0	84.2	151.2
INLET 71. DEG F	1000	93.1	92.3	94.4	96.4	104.4	103.2	99.4	97.1	95.5	96.1	92.4	88.0	92.3	96.3	91.1	147.6
(295. DEG K)	1250	92.7	93.1	90.1	89.6	105.4	102.0	100.0	94.2	91.8	87.0	91.8	89.9	93.0	86.2	89.1	149.1
WAD 17.50 M/M3	1500	90.3	92.4	95.0	98.8	104.3	100.1	95.3	96.1	92.6	86.6	87.2	85.1	85.1	94.2	89.0	149.1
(01756 KG/M3)	2000	94.0	93.3	95.3	87.4	104.5	100.4	102.4	100.3	92.7	94.0	91.3	85.1	87.3	85.2	87.0	147.3
WAD 9540. RPM	2500	95.7	92.2	94.2	95.8	98.1	97.0	93.0	91.2	86.3	83.1	83.8	83.7	84.7	82.0	81.3	142.3
(999. RAD/SEC)	3000	93.2	94.3	93.4	93.4	96.4	100.3	95.3	92.5	86.6	85.0	83.6	82.0	83.2	79.2	80.2	143.7
WAD 9367. RPM	4000	94.8	94.1	94.4	93.9	96.3	95.0	96.0	90.0	87.4	82.2	80.1	81.7	80.0	75.0	80.0	141.8
(983. RAD/SEC)	5000	92.3	95.6	92.4	94.1	90.7	96.4	91.3	88.4	87.3	84.1	82.5	79.0	82.0	80.3	80.0	142.3
WAD 10628. RPM	6000	91.9	93.4	91.4	90.4	93.2	94.1	93.4	87.1	83.5	80.3	79.3	78.0	79.1	77.5	77.3	140.2
(1113. RAD/SEC)	8000	90.6	91.2	89.8	87.7	91.2	92.0	89.2	84.6	80.8	80.8	87.9	81.5	80.8	82.6	81.7	140.7
WAD 10628. RPM	10000	87.1	85.5	84.5	84.4	87.8	84.5	84.6	79.5	76.5	73.0	71.4	71.0	70.1	68.2	67.4	136.4
NO. OF BLADES 44	1000	81.4	82.7	83.7	81.8	84.9	80.0	81.9	77.0	73.8	74.7	70.5	70.7	69.8	68.6	66.6	135.3
	2000	78.6	81.7	77.2	77.0	82.0	81.0	78.9	76.0	76.0	86.4	83.6	78.5	76.6	78.9	76.1	139.7
OVERALL MEAS. REQ	100.9	107.2	106.9	109.8	114.3	114.0	110.0	107.0	105.5	104.1	101.9	100.0	101.7	101.1	96.0	98.4	158.7
OVERALL CALCULATED	107.0	107.1	105.4	110.1	114.1	114.0	110.1	107.7	105.5	104.2	101.6	101.0	101.5	101.4	97.0	96.4	
WIND	117.3	117.4	119.1	119.6	124.2	124.2	121.2	118.6	114.5	112.4	110.7	110.1	110.5	111.2	107.9	107.6	

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	80.5	81.0	80.9	77.7	78.9	76.0	76.7	76.9	76.7	74.9	74.7	74.7	76.6	74.0	77.3	126.5
	63	78.7	78.2	77.2	75.0	75.5	75.0	72.1	73.1	72.2	76.2	75.1	73.0	77.2	78.2	75.0	126.6
RADIAL 100. FT.	80	69.6	73.7	69.8	47.6	71.0	67.4	66.5	66.8	67.7	68.0	68.5	64.4	64.4	66.4	67.7	117.4
( 30. H)	100	69.9	67.2	68.1	66.9	67.0	65.0	66.2	67.0	64.9	64.7	64.8	66.5	65.8	65.6	69.0	116.3
VEHICLE ATT	125	78.3	67.6	68.3	66.5	66.5	66.4	67.3	68.2	66.8	66.4	64.6	68.0	68.1	66.0	71.0	117.7
CONFIG T=0	160	69.9	71.3	77.9	76.8	76.0	75.1	74.0	78.7	76.0	69.0	68.0	77.0	78.8	75.7	73.0	125.5
LCC PTO	200	66.1	65.1	65.2	65.2	66.1	65.1	66.2	65.9	65.0	62.1	62.9	64.6	65.6	66.9	65.1	115.4
DATE 06/13/74	250	70.0	69.0	69.2	67.9	69.4	67.9	67.1	66.1	65.1	64.9	64.8	65.7	66.7	67.2	67.9	116.9
NO. 744	315	79.7	75.3	76.9	78.9	81.5	81.0	81.8	77.9	78.2	77.7	75.0	80.9	74.8	78.1	86.2	128.9
TAPP	400	74.6	75.9	84.2	84.0	80.1	83.9	82.9	80.8	77.1	77.6	72.9	78.7	73.6	80.7	75.0	130.8
BAR 29.0 HG	500	91.8	87.9	95.8	97.7	99.2	97.7	95.9	93.5	90.2	91.4	85.9	92.6	85.5	94.7	88.7	144.4
(97827. N/M2)	630	90.2	98.3	92.6	91.1	106.5	108.0	104.2	102.2	101.5	99.1	96.3	98.1	99.2	86.0	89.3	141.8
TAPP 76. DEG F	800	102.8	103.3	107.0	106.1	107.6	104.0	100.3	98.1	96.2	99.9	96.9	88.8	67.1	93.1	81.0	151.6
(298. DEG K)	1000	92.0	90.6	94.3	98.2	104.7	105.1	99.4	96.0	95.6	92.0	92.1	89.2	80.1	95.2	89.5	147.7
INLET 71. DEG F	1250	93.0	93.1	99.3	99.2	105.5	105.1	100.2	100.0	96.2	98.6	88.7	90.7	85.1	91.1	85.9	149.3
(295. DEG K)	1600	93.2	93.5	94.3	100.1	103.5	104.3	97.5	95.2	92.3	85.8	88.5	86.9	86.9	92.9	82.2	147.6
MAINT 17.56 CM/MS	2000	94.3	93.7	95.3	98.2	103.4	104.0	101.4	100.1	90.6	89.3	88.5	87.0	86.0	84.4	89.4	148.5
(.01756 M/S)	2500	94.0	93.1	95.0	94.1	96.2	97.9	94.9	93.0	89.2	83.0	81.9	83.6	82.7	82.9	83.2	142.9
REA 9540. RPM	3150	93.0	94.5	93.3	93.7	98.5	101.1	95.1	93.1	87.6	86.1	83.3	84.1	83.1	81.1	83.2	143.6
( 999. RAD/SEC)	4000	95.9	94.2	95.1	94.0	95.5	95.2	96.0	90.0	87.5	82.0	80.0	81.1	79.8	79.0	79.9	141.9
CPA 9387. RPM	5000	94.0	93.4	94.6	94.2	97.7	95.5	92.3	89.1	87.3	82.3	82.3	79.3	82.0	81.1	81.0	142.7
( 983. RAD/SEC)	6300	95.0	93.4	92.6	90.4	92.6	92.2	93.5	88.3	84.5	80.1	79.2	78.0	79.0	77.3	78.3	140.7
CPA 10628. RPM	8000	91.8	93.5	91.2	91.3	93.4	94.0	90.4	86.1	82.2	80.2	79.1	76.9	75.8	76.4	76.3	140.1
(1113. RAD/SEC)	10000	93.7	90.9	89.2	86.1	91.3	92.0	90.0	84.8	81.2	89.4	80.2	81.7	80.8	82.7	82.0	140.4
NO. OF BLADES 44	12500	87.4	88.5	84.3	85.2	87.8	87.2	82.4	80.3	76.7	74.1	72.1	70.0	71.2	68.6	69.4	135.6
	16000	82.7	82.7	80.7	80.7	84.9	84.9	82.0	76.6	75.1	75.0	71.6	69.4	71.9	69.7	68.0	135.2
	20000	79.9	82.1	78.1	77.9	81.3	81.9	78.9	75.8	74.0	66.0	81.7	78.0	77.5	79.1	78.0	139.2
OVERALL MEASURED		107.1	107.2	109.2	110.2	113.5	113.0	110.2	107.9	105.2	104.1	102.0	100.0	101.2	99.9	97.8	99.3
OVERALL CALCULATED		107.1	107.4	109.5	110.7	114.0	113.7	109.9	107.6	105.3	104.2	101.7	101.3	101.0	100.9	97.5	98.9
PNOB		110.0	110.0	119.3	120.1	123.7	124.1	120.8	118.7	114.3	112.2	110.1	110.4	110.2	110.4	109.1	109.7

744

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	80.5	80.9	79.9	78.3	79.1	78.5	78.7	76.7	76.9	77.1	74.7	74.7	74.6	76.6	74.9	77.0	126.6
63	77.8	78.3	75.9	74.2	83.2	76.9	72.8	74.1	73.1	75.9	75.9	73.0	76.0	76.3	75.1	77.3	125.4
RADIAL 10', FT. ( 30. M)	80	70.6	70.7	70.5	67.5	68.7	68.4	66.6	66.7	68.7	69.4	66.4	65.2	65.3	66.5	67.7	117.7
VEHICLE ATT	100	69.9	67.1	69.0	67.2	67.3	67.3	66.1	66.5	66.2	65.8	64.7	66.6	67.0	66.1	68.7	116.6
CONFIG T-0	125	70.3	68.4	68.4	66.5	66.5	67.1	67.4	68.1	66.5	66.2	65.6	66.3	68.4	66.5	70.4	117.8
LDC PTO	160	71.5	69.1	77.9	77.6	78.1	74.7	72.9	79.6	76.2	69.7	70.0	77.9	77.9	75.7	72.0	125.9
DATE 06/13/74	200	65.8	65.1	64.9	65.3	67.1	63.9	66.9	64.4	63.1	63.1	64.7	66.0	66.9	65.1	69.3	115.4
HUM 745	250	71.0	69.8	70.0	66.2	67.2	68.9	67.0	65.8	67.4	65.1	64.9	65.7	65.8	67.1	67.2	117.1
IAPR A905	315	75.5	77.2	78.2	76.9	76.5	81.6	80.0	77.0	78.1	78.2	75.8	80.8	74.8	76.9	75.2	125.6
RAP 29.0 MG ( 7827. N/M2)	400	73.8	76.9	82.1	84.2	85.6	82.7	83.1	79.6	77.0	79.8	74.0	77.5	73.9	81.8	74.0	130.6
TAID 73. DEG F (299. DEG K)	500	91.6	89.8	94.9	97.6	97.9	96.6	96.7	92.6	90.9	93.0	86.9	98.7	84.8	94.6	86.7	143.8
INLET 72. DEG F (295. DEG K)	630	88.2	93.6	94.5	93.1	105.3	108.0	104.3	101.3	100.6	99.4	95.5	97.9	97.9	96.0	99.1	151.5
INLET 17.88 CM/M3 (0.1788 KG/M3)	800	104.1	102.1	105.3	107.0	106.1	104.1	98.0	98.1	96.2	99.9	95.0	87.7	87.0	91.9	83.0	158.5
RFA 9550. RPM (1000. RAD/SEC)	1000	93.9	92.3	96.2	99.1	104.4	103.8	100.1	97.0	95.5	90.4	92.2	88.9	89.3	91.0	92.5	147.9
RFA 9320. RPM (987. RAD/SEC)	1250	96.1	95.4	96.2	102.9	100.5	104.1	101.1	100.2	96.1	92.3	88.0	93.0	88.8	91.9	88.2	150.3
RFA 10628. RPM (1113. RAD/SEC)	1600	96.6	94.4	96.1	101.4	105.3	105.2	99.2	98.2	92.5	87.4	90.1	87.9	88.3	93.3	87.3	149.0
NO. OF PLATES 44	2000	98.9	94.6	96.6	100.5	104.4	109.1	101.5	99.1	92.5	89.3	90.3	86.0	88.1	86.5	86.2	149.0
	2500	93.0	93.9	95.3	96.2	99.4	98.1	96.0	92.8	89.5	84.9	84.0	82.0	84.0	83.2	81.9	143.7
	3150	94.2	94.2	95.3	94.3	99.5	100.4	95.3	93.2	88.5	85.5	83.2	82.3	83.4	81.4	83.2	144.3
	4000	94.2	95.4	95.4	94.1	97.6	96.9	95.1	91.3	87.3	82.9	81.3	82.1	79.9	76.2	80.0	142.7
	5000	93.8	96.3	94.5	94.3	98.8	96.2	93.3	89.4	86.6	84.3	83.5	79.2	82.3	80.2	81.3	143.2
	6300	92.1	93.5	93.5	91.6	93.7	95.2	93.7	89.4	83.6	80.4	80.3	79.1	79.4	77.5	77.2	140.9
	8000	92.1	93.5	91.4	91.3	91.4	94.3	91.2	86.9	82.5	80.9	79.3	77.0	76.3	76.0	76.7	140.6
	10000	93.6	91.9	89.9	88.9	92.5	93.6	89.8	84.8	81.0	89.8	86.1	81.9	81.0	83.1	81.0	141.0
	12500	89.3	86.7	85.4	85.6	86.5	84.3	85.6	81.2	75.5	73.9	71.4	70.0	71.5	68.4	69.5	136.9
	15000	83.4	83.0	81.6	81.7	80.0	82.0	77.5	72.9	74.7	74.7	71.6	68.6	69.6	68.6	66.8	135.8
	20000	80.0	81.9	77.8	76.2	85.1	82.0	78.9	75.7	74.2	89.9	61.8	77.9	76.8	78.1	77.7	139.3
OVERALL MEASURED	107.1	107.8	106.9	110.9	114.3	113.7	110.1	107.2	105.2	104.2	100.9	101.0	100.8	101.1	98.2	99.1	
OVERALL CALCULATED	107.8	107.4	106.9	111.0	114.1	114.0	110.1	107.8	105.0	104.4	101.2	101.2	100.5	100.8	97.2	99.3	156.8
PWLB	119.1	118.7	119.2	120.7	124.4	124.0	121.0	118.4	114.0	112.0	110.7	110.2	110.0	110.8	107.5	108.4	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 6 DAY 30 HR, 15.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (Hz)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)		
50	80.5	80.9	79.9	77.7	75.3	72.7	70.8	75.7	77.2	77.8	74.9	75.4	75.6	77.8	74.9	77.0	126.6
63	81.1	76.3	76.2	74.0	83.2	76.2	72.8	73.2	73.2	85.1	74.8	72.9	77.1	78.9	74.9	77.5	128.4
80	77.3	73.5	70.8	66.4	84.9	67.4	66.8	66.4	69.6	75.5	68.8	65.5	65.4	67.6	67.7	66.7	119.1
PARTIAL 10' FT. (3' H)	100	70.9	67.8	69.0	47.7	67.1	67.1	66.9	66.8	67.3	67.3	65.8	67.0	66.9	66.7	67.3	117.0
VEHICLE ATT CONFIG T=0	125	73.1	88.4	69.3	66.2	66.5	66.4	64.3	68.3	68.4	66.4	66.4	69.2	68.1	66.4	78.2	118.0
LDC PTD	160	72.8	69.9	77.7	76.9	76.1	74.7	74.1	78.7	76.3	76.1	71.8	76.6	77.7	74.9	71.7	125.7
LATE 06/15/74	200	68.6	65.3	65.1	65.8	67.4	66.1	65.8	64.1	67.1	63.9	65.7	66.0	67.0	65.1	69.4	115.7
NUM. 745	250	71.8	69.3	69.1	66.6	68.8	74.2	67.9	66.1	66.2	66.2	65.2	65.6	65.5	66.9	66.6	117.2
TAF 4935	315	80.6	79.3	78.1	69.9	91.1	84.1	81.3	79.1	80.0	81.1	78.3	82.8	76.7	79.5	81.1	130.7
BAF 29.0 MG (7827, 4/M2)	400	80.6	78.3	83.0	84.8	85.9	84.9	83.7	86.6	78.0	79.8	72.6	78.6	74.7	82.8	75.9	131.4
TAF 78, DEG F (299, DEG K)	500	92.5	87.3	95.6	98.8	99.1	98.8	97.7	93.9	90.4	92.8	85.6	91.5	89.5	95.8	87.5	144.9
TAF 72, DEG F (295, DEG K)	630	97.0	97.3	91.2	91.4	106.3	104.0	104.2	103.4	101.7	109.4	97.8	98.0	99.0	89.0	88.5	152.1
MACT 17.38 (0.1738 M/M3)	800	101.1	103.3	106.2	106.9	107.4	103.9	99.0	99.1	98.2	98.9	95.8	87.7	85.1	93.1	83.9	151.1
MACT 17.38 (0.1738 M/M3)	1000	91.9	92.1	95.4	98.3	104.4	103.2	99.5	97.3	96.7	91.4	93.2	89.1	93.3	69.2	69.3	148.0
MACT 17.38 (0.1738 M/M3)	1250	93.9	93.3	98.2	101.1	105.5	104.9	99.3	100.1	95.5	91.2	86.0	91.9	96.9	90.9	85.2	149.1
MACT 17.38 (0.1738 M/M3)	1500	95.9	93.2	94.1	100.3	104.6	103.3	98.3	97.0	92.3	86.0	88.1	86.9	88.9	92.3	87.1	148.3
MACT 17.38 (0.1738 M/M3)	2000	94.3	93.8	95.4	98.5	104.5	104.5	102.3	99.8	93.7	89.5	90.2	84.9	87.2	86.2	86.1	149.6
MACT 17.38 (0.1738 M/M3)	2500	95.8	92.4	94.8	95.6	98.2	97.0	94.1	91.8	86.4	82.8	83.2	82.7	83.9	83.1	82.0	142.4
MACT 17.38 (0.1738 M/M3)	3150	95.3	94.5	94.2	93.3	98.8	100.4	96.4	93.1	87.4	85.4	83.3	83.2	83.1	80.4	81.4	144.1
MACT 17.38 (0.1738 M/M3)	4000	95.8	94.1	94.3	94.3	96.5	95.1	96.2	90.3	87.5	83.6	86.4	81.8	79.1	78.0	79.0	142.2
MACT 17.38 (0.1738 M/M3)	5000	95.3	93.4	94.3	94.6	97.8	97.1	92.6	89.4	86.7	84.4	82.2	79.0	81.4	80.2	80.3	142.4
MACT 17.38 (0.1738 M/M3)	6300	95.1	93.4	92.6	91.3	91.7	95.4	93.6	88.2	83.5	81.2	79.4	78.2	79.2	77.2	75.7	140.8
MACT 17.38 (0.1738 M/M3)	8000	92.2	93.2	91.1	91.2	94.1	94.0	90.5	86.9	82.6	81.6	78.3	78.7	76.0	75.9	75.7	140.3
MACT 17.38 (0.1738 M/M3)	10000	87.2	86.9	84.5	85.6	87.5	89.6	85.4	80.5	78.7	73.5	71.3	69.0	70.5	66.2	65.6	136.7
MACT 17.38 (0.1738 M/M3)	12500	82.7	82.9	81.7	81.7	84.1	85.0	82.1	76.8	74.1	74.9	70.7	68.4	69.6	67.3	66.8	135.2
MACT 17.38 (0.1738 M/M3)	15000	78.9	81.3	77.8	77.8	82.2	81.9	79.2	75.8	76.1	85.7	79.6	77.5	76.9	78.1	75.1	138.9
MACT 17.38 (0.1738 M/M3)	20000	107.6	107.0	107.9	110.2	114.3	113.9	109.1	108.1	105.2	104.2	101.9	101.0	101.1	101.1	98.0	98.2
MACT 17.38 (0.1738 M/M3)	OVERALL CALCULATED	107.7	107.2	108.9	110.4	114.1	113.0	110.0	108.4	105.5	104.4	101.6	101.1	101.1	100.7	97.2	97.5
MACT 17.38 (0.1738 M/M3)	FNPR	110.9	117.9	118.8	119.5	124.3	124.1	121.3	118.8	114.4	112.8	110.6	110.2	110.3	110.3	107.0	107.9

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	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	81.6	82.0	82.0	79.8	80.0	78.6	77.8	78.7	78.0	79.3	78.7	78.6	75.9	78.9	76.7	78.1	128.2
63	79.8	81.3	79.2	79.0	84.2	79.8	76.3	74.2	73.3	86.1	77.0	74.7	77.0	82.2	78.2	78.5	130.0
80	79.3	75.9	75.9	74.8	74.7	74.8	74.9	75.7	75.0	76.6	75.4	73.4	71.3	73.3	73.3	71.7	124.5
100	75.6	73.9	74.0	72.8	74.2	72.8	71.9	73.0	72.3	71.8	69.9	69.7	70.6	72.6	72.9	71.4	122.1
125	76.4	75.6	73.3	73.3	73.3	73.2	72.3	72.1	70.5	71.2	70.2	71.3	73.0	71.2	72.2	71.9	122.0
160	79.6	74.1	74.9	76.6	73.9	71.7	73.0	82.9	77.3	74.7	70.7	74.5	74.9	73.9	75.2	73.2	126.6
200	75.1	75.3	75.0	73.3	74.3	72.1	71.2	72.6	69.1	69.9	69.2	68.9	68.7	70.1	59.7	68.1	121.2
250	81.7	82.2	81.9	80.0	81.1	78.8	77.2	77.1	74.4	73.2	71.8	70.8	71.8	73.1	73.0	72.2	126.7
315	87.0	85.3	86.9	87.1	85.1	81.6	82.9	86.6	86.3	81.8	84.1	82.6	78.1	76.1	84.1	82.2	134.2
400	86.6	79.9	81.1	82.0	81.0	79.0	78.1	76.9	76.2	75.7	75.0	73.7	75.9	74.9	76.9	75.0	127.7
500	87.6	86.9	91.7	93.9	90.0	92.5	89.7	88.8	87.9	89.7	85.8	83.6	83.7	82.9	88.5	86.0	139.4
630	87.0	89.9	89.2	91.4	98.6	98.0	98.6	94.0	86.0	90.4	91.3	92.1	91.3	86.3	93.5	87.7	143.6
800	101.0	94.3	103.9	109.7	111.4	108.7	105.2	97.9	94.2	96.2	101.9	95.6	97.7	93.8	92.9	93.1	154.2
1000	94.3	94.5	95.4	102.1	107.3	104.1	102.2	132.1	96.3	94.1	97.0	98.1	91.2	89.1	86.1	85.7	150.6
1250	95.0	93.0	98.2	101.2	105.4	104.0	100.3	97.9	94.0	93.9	91.2	90.6	89.8	84.9	85.2	85.5	148.8
1600	94.2	93.4	95.4	101.4	101.3	104.0	96.4	94.2	92.3	90.9	89.2	87.8	87.1	90.0	85.3	82.6	147.0
2000	97.0	94.6	96.3	99.2	102.7	103.0	98.9	95.0	91.5	91.4	88.2	85.2	84.3	85.2	84.2	85.8	147.1
2500	94.2	94.3	93.9	95.9	101.4	99.7	95.2	91.6	88.2	86.9	84.1	82.6	84.0	82.6	82.1	86.4	144.1
3150	96.3	95.3	96.2	94.3	99.5	99.2	94.5	93.0	88.5	85.3	83.1	82.0	83.1	82.1	84.2	78.6	143.9
4000	97.9	97.1	97.1	95.1	97.4	97.0	96.3	92.0	87.1	83.1	80.3	82.1	79.1	79.0	91.2	79.5	143.3
5000	96.3	97.5	96.5	96.5	99.7	99.3	92.5	89.2	86.6	84.0	82.2	80.2	82.3	80.4	81.0	78.6	144.1
6300	97.4	95.4	95.6	93.6	95.5	96.4	94.5	88.5	83.4	82.2	79.3	80.1	79.4	78.3	78.0	76.0	142.0
8000	94.2	93.2	94.1	93.2	94.5	95.0	91.4	88.0	82.2	80.0	76.3	78.9	76.1	76.3	78.1	75.3	141.9
10000	92.8	93.2	91.2	90.9	93.3	93.0	90.2	85.9	81.3	91.7	84.6	82.9	81.9	83.7	83.1	80.4	142.0
12500	89.5	85.7	86.3	87.7	85.8	90.3	85.7	80.4	75.7	75.3	73.2	71.3	70.4	70.6	71.0	66.9	137.9
16000	84.8	85.1	92.9	83.3	86.9	80.9	82.7	76.6	74.0	73.7	67.7	68.6	68.6	68.7	66.7	66.3	135.4
20000	79.9	83.0	78.9	78.9	83.3	82.7	80.0	76.1	75.4	86.1	80.8	77.9	78.7	79.2	78.0	76.5	139.5
OVERALL MEASURED	107.8	106.2	107.9	111.9	114.4	114.7	110.0	109.1	102.3	102.1	104.1	101.7	100.8	97.8	98.8	97.3	
OVERALL CALCULATED	107.6	106.2	106.5	112.1	115.0	113.4	109.9	106.7	102.4	102.5	104.3	101.9	100.9	98.4	98.9	97.1	138.8
PNDB	120.5	119.5	120.2	121.0	124.2	123.7	120.0	117.8	112.9	112.2	112.9	110.0	110.2	108.7	108.9	107.0	

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## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 18.5

MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
RADIAL 100. FT. (30. M)	50	82.7	82.9	81.9	80.0	82.2	76.7	78.9	79.0	79.0	79.9	76.7	77.5	76.7	79.0	76.8	78.3	128.6
VEHICLE ATT	63	89.0	81.3	80.2	78.1	84.2	77.1	77.0	74.1	73.5	86.2	78.2	74.9	76.9	81.5	77.2	78.2	130.0
CONFIG T=0	80	76.3	75.9	75.5	74.8	74.9	74.5	75.6	74.7	73.9	75.7	75.7	72.5	76.7	72.8	72.8	70.9	124.2
LOC PTD	100	75.6	73.1	73.9	72.8	74.2	72.0	71.9	72.0	71.0	71.8	70.8	68.6	70.8	71.9	72.0	70.2	121.6
DATE 06/13/74	125	76.0	75.3	73.3	73.4	73.7	72.5	72.3	72.1	69.6	78.0	69.2	70.3	72.2	76.3	71.1	70.7	121.9
NO. 750	160	76.5	70.9	71.9	75.0	73.0	72.0	70.2	82.7	79.3	74.7	77.1	72.5	72.8	74.1	75.9	72.9	126.5
TAPE A905	200	74.7	74.3	74.0	72.1	73.4	71.1	71.0	71.8	69.4	70.2	68.6	67.7	68.8	70.2	66.6	66.0	120.6
RAP 29.0 MC	250	81.7	81.2	81.0	80.2	80.4	77.8	77.0	75.7	73.3	71.9	71.2	70.9	70.9	73.0	73.0	71.4	125.9
(97827. N/M2)	315	83.7	84.3	86.3	86.1	85.1	79.1	81.0	85.7	85.4	79.8	84.4	81.9	78.3	76.2	83.1	82.4	133.7
TACH 78. DEG F	400	77.8	79.2	81.2	80.9	81.0	78.9	77.9	76.8	77.0	76.0	74.8	73.8	74.8	74.8	76.7	73.9	127.5
(299. DEG K)	500	87.6	85.9	93.9	94.9	93.8	93.6	91.1	90.6	90.2	90.8	86.5	84.6	84.9	83.7	89.6	87.8	140.7
INLET 72. DEG F	630	89.0	90.5	87.4	92.2	100.7	98.3	99.5	93.3	87.6	89.2	90.0	92.0	92.5	88.3	95.1	89.1	145.0
(295. DEG K)	800	102.0	92.0	105.4	110.2	111.5	108.1	107.2	94.1	98.2	96.2	103.1	93.7	99.2	95.9	92.0	93.1	154.5
FACT 17.42 GM/M3	1000	92.2	92.5	95.5	102.2	106.4	104.2	102.5	98.1	94.5	91.4	95.2	98.2	89.3	85.4	89.3	86.3	149.8
(.01742 MG/M3)	1250	90.9	93.4	98.5	101.0	103.5	102.9	99.3	95.8	95.1	93.9	93.3	91.6	90.2	89.1	85.8	84.4	147.9
RFA 9860. RPM	1600	92.1	96.4	96.4	102.3	102.2	104.2	97.3	96.0	92.3	91.3	89.4	88.0	67.2	91.2	90.0	84.3	147.7
(1032. RAD/SEC)	2000	92.1	92.9	94.8	97.6	102.7	104.4	100.4	95.1	91.5	96.5	88.4	85.4	87.3	84.5	84.4	84.6	147.6
REF 9684. RPM	2500	92.8	94.4	95.4	96.1	100.4	100.8	97.3	94.0	89.2	85.6	85.0	83.7	85.0	82.9	83.0	81.0	145.0
(1014. RAD/SEC)	3150	96.0	95.3	96.6	93.5	97.5	99.2	96.4	92.3	87.3	84.3	84.2	82.1	83.3	81.2	82.1	80.4	143.6
REF 10628. RPM	4000	97.1	96.2	96.5	95.1	97.3	98.0	96.4	91.9	87.2	83.9	80.3	82.9	80.1	79.3	81.1	79.2	143.5
(1113. RAD/SEC)	5000	95.3	97.6	96.7	96.3	98.5	98.2	92.6	89.4	86.3	84.4	82.3	80.2	82.5	80.4	81.2	76.4	143.4
NO. OF BLADES 44	6300	92.3	94.5	94.9	92.6	94.6	96.3	93.7	89.3	83.4	82.2	79.6	79.4	79.4	78.5	76.5	75.5	141.6
10000	8000	94.3	94.2	93.5	93.4	95.5	95.0	91.5	88.0	83.2	81.0	78.3	79.1	77.2	77.3	76.1	74.4	141.6
OVERALL MEASURED	107.0	106.4	109.2	112.0	114.6	112.7	110.3	105.1	103.3	102.1	104.2	101.9	102.1	100.1	101.0	97.1		141.9
OVERALL CALCULATED	107.6	105.9	109.6	112.6	114.7	113.4	110.3	105.3	103.2	102.2	104.9	101.7	101.7	99.5	100.0	97.6		138.1
PWDB	117.9	119.1	120.1	121.9	124.0	124.1	120.7	116.7	113.1	112.1	113.5	110.6	111.0	109.4	109.5	107.0		136.6
																		139.4

	FREQ. (0, )	ANGLES FROM INLET [N DEGREES (AND RADIANS)]															PNL	
		0, (0,17)	10, (0,35)	20, (0,52)	30, (0,70)	40, (0,87)	50, (1,05)	60, (1,22)	70, (1,40)	80, (1,57)	90, (1,75)	100, (1,92)	110, (2,09)	120, (2,27)	130, (2,44)	140, (2,62)		150, (2,80)
	50	82.0	81.1	81.0	78.9	80.1	77.8	78.1	78.7	78.2	79.6	75.7	75.7	75.9	78.7	79.8	77.0	127.9
	63	81.0	78.1	77.9	77.1	83.4	78.1	78.1	73.8	74.1	87.1	74.7	74.0	73.0	74.7	74.8	73.4	129.4
RADIAL 103. FT.	80	78.6	75.7	74.8	74.7	75.7	74.9	79.5	75.4	74.8	76.4	75.7	73.2	70.6	72.4	73.4	71.7	124.5
( 30. M)	100	77.9	72.8	73.1	72.0	74.0	74.0	71.8	71.9	72.3	70.7	69.8	68.5	69.9	72.9	71.0	71.1	121.5
VEHICLE ATT	125	78.0	75.3	73.4	73.4	73.8	73.4	73.4	72.4	69.7	69.5	72.2	71.2	72.0	74.4	72.4	73.4	122.5
CONFIG T-0	160	78.9	72.9	74.1	72.7	73.3	73.4	71.8	83.9	79.1	73.8	75.7	75.5	74.9	74.9	74.9	73.2	127.0
LOC PTD	200	79.0	74.0	72.9	71.1	72.1	71.1	70.3	72.9	71.1	69.9	68.9	68.7	68.8	69.9	69.1	68.3	120.6
DATE 08/13/74	250	80.8	80.2	79.9	79.0	79.2	77.8	76.2	75.1	74.2	70.9	71.2	70.0	78.7	72.7	72.0	72.0	125.3
HUM 752	315	85.9	83.2	85.9	85.1	84.0	77.7	83.2	87.8	85.4	88.1	85.1	82.0	78.8	77.2	84.2	82.1	133.8
TAPE A905	400	74.8	78.8	81.7	80.5	81.3	77.9	78.9	77.7	77.2	76.7	75.1	74.8	75.9	74.7	76.9	76.1	128.0
BAP 29.0 HG	500	87.9	85.9	95.7	94.7	95.9	95.6	93.8	90.8	89.9	92.0	88.7	87.4	67.6	83.5	89.7	90.1	142.0
(97824. N/M2)	630	98.0	87.3	87.1	93.9	103.5	99.2	101.2	97.1	92.5	90.4	92.6	93.0	95.8	86.3	95.4	89.3	146.9
TANK 79. DEG F	800	98.8	89.1	107.2	109.6	111.1	107.9	109.0	93.9	100.9	96.3	103.8	98.9	99.2	95.1	91.9	93.1	154.3
(299. DEG K)	1000	92.3	91.3	94.5	102.9	107.7	102.1	103.2	98.0	95.3	98.2	96.2	96.9	91.3	85.3	87.1	82.3	150.5
INLET 71. DEG F	1250	92.0	90.1	96.8	99.1	103.2	102.2	101.0	97.1	92.4	93.1	93.3	90.7	90.8	88.0	87.2	87.2	147.6
(295. DEG K)	1600	92.9	94.5	94.1	100.8	103.4	104.2	97.4	98.0	92.3	91.3	87.2	86.1	89.2	90.0	90.1	94.6	147.7
MACT 16.68 IN/M3	2000	94.1	93.6	94.5	95.0	103.5	103.4	100.4	96.2	90.3	98.5	89.4	87.3	86.1	85.2	84.2	83.8	147.4
(.01668 KG/M3)	2500	94.8	94.5	95.3	93.0	101.5	100.9	96.9	93.1	88.3	86.9	83.0	88.2	84.9	83.8	81.7	81.1	145.1
RFA 9894. RPM	3150	99.0	93.6	93.5	92.1	96.6	97.4	94.6	90.4	87.3	86.3	83.6	82.9	81.1	81.2	82.4	81.4	142.1
(1036. RAD/SEC)	4000	98.9	95.5	95.1	94.0	97.6	96.9	95.1	91.2	87.1	83.1	80.2	82.1	79.0	78.0	80.0	80.3	142.7
NFK 9711. RPM	5000	95.0	96.1	95.5	95.0	98.8	97.1	92.1	89.4	87.6	84.0	83.4	80.0	82.2	81.2	81.5	76.7	142.9
(1017. RAD/SEC)	6300	95.5	94.4	94.3	91.4	94.4	96.3	93.4	88.2	82.7	81.5	79.5	78.2	79.2	78.2	77.4	76.5	141.4
NFD 10628. RPM	8000	93.2	94.5	92.3	91.8	95.5	94.3	91.1	86.8	82.5	81.2	78.6	78.0	75.9	76.0	77.9	74.5	141.0
(1113. RAD/SEC)	10000	91.9	92.0	89.9	89.0	92.3	94.1	89.3	84.0	82.0	91.6	85.4	82.9	81.7	83.7	82.9	81.1	141.6
NO. OF BLADES 44	12500	87.6	87.9	86.3	86.3	89.6	90.4	85.5	80.3	76.6	75.7	72.6	71.2	70.6	70.5	70.4	68.6	137.7
	16000	85.9	83.9	82.1	82.7	86.4	86.0	82.1	76.7	76.2	74.1	69.1	68.7	68.7	69.0	67.9	65.4	136.1
	20000	86.2	83.3	78.1	79.0	83.4	82.9	79.5	76.1	79.3	87.2	79.7	78.9	77.1	79.4	78.4	76.4	140.0
OVERALL MEASURED	107.0	109.1	109.0	111.5	114.5	115.2	110.0	105.1	104.5	102.9	104.2	108.6	102.2	99.1	100.2	98.2		
OVERALL CALCULATED	106.5	104.9	109.5	111.0	115.1	115.2	110.6	105.6	104.3	102.3	105.1	101.0	102.3	98.7	99.9	97.9		158.9
PNDB	119.4	118.0	119.5	120.9	124.2	123.0	120.7	116.8	113.9	112.2	113.6	118.6	111.0	108.7	109.4	107.3		

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
RADIAL 100. FT. (30. M)	50	82.5	81.1	81.1	79.0	78.9	77.7	76.8	77.6	76.9	78.8	75.8	75.6	74.9	78.0	75.9	76.2	127.4
VEHICLE ATT CONFIG T-0	63	83.7	77.3	77.2	75.2	83.1	76.8	75.3	73.1	72.1	86.1	75.9	74.8	74.7	74.9	75.4	76.4	128.8
LOC PTD	80	77.6	75.8	75.8	74.8	75.7	74.0	75.6	75.3	75.0	76.7	75.7	73.3	71.3	72.4	72.4	71.0	124.6
DATE 08/13/74	100	76.8	73.1	75.1	72.8	74.0	71.7	71.9	72.8	71.0	71.1	70.9	68.7	70.5	72.8	71.4	71.0	121.8
RPM 753	125	77.3	75.3	74.3	73.4	73.5	72.4	71.4	72.1	70.4	70.2	71.4	71.2	73.3	71.3	71.3	70.7	121.9
TAPE A905	160	74.6	75.1	76.8	75.0	75.0	74.0	75.8	82.9	78.0	73.8	75.7	77.8	75.8	72.7	72.8	71.0	126.9
PAR 29.0 HG	200	75.7	74.0	75.2	72.0	73.1	71.9	71.0	71.8	69.1	69.1	68.9	68.9	68.6	69.1	69.6	67.4	125.2
(7824. N/M2)	250	83.7	81.0	80.9	78.9	79.4	77.6	75.9	75.1	73.4	72.2	71.0	69.9	70.7	72.1	72.1	71.1	125.2
TANK 79. DEG F	315	80.0	83.3	85.2	84.2	85.3	85.1	84.2	87.9	87.1	82.1	86.4	82.7	78.8	77.2	83.7	83.3	134.6
(299. DEG K)	400	74.9	80.1	81.9	81.7	81.2	79.7	77.8	77.6	77.0	77.0	76.0	74.5	77.0	75.9	77.9	76.1	126.3
WHT 71. DEG F	500	84.8	84.9	85.7	85.7	85.9	84.4	81.7	89.9	91.0	91.7	86.8	84.6	88.8	86.8	91.4	90.9	141.9
(295. DEG K)	630	80.0	90.3	80.5	92.2	103.6	100.0	102.6	97.5	92.4	92.2	94.1	92.1	95.1	88.1	95.9	98.4	147.6
MFT 16.65 GM/M3	800	99.7	94.5	106.0	106.0	110.4	107.0	105.1	94.8	100.4	99.0	102.8	93.1	96.8	91.6	93.7	94.5	153.8
(.01648 KG/M3)	1000	94.1	89.3	93.4	102.9	107.3	102.5	103.5	99.0	95.3	98.2	96.2	95.8	92.3	89.3	87.1	82.8	150.5
MFA 9899. RPM	1250	94.4	95.2	95.5	102.0	104.3	104.4	98.1	96.4	91.7	96.1	90.1	88.6	90.0	89.4	87.2	82.5	148.2
(1036. RAD/SEC)	1500	95.5	96.4	95.6	99.5	104.5	104.4	99.3	95.2	90.9	89.3	87.6	86.3	86.4	86.1	83.2	82.5	148.1
MFK 9714. RPM	2000	94.7	95.1	95.0	96.0	104.1	99.0	95.1	91.9	88.6	86.9	83.3	85.6	83.8	83.2	81.9	79.2	144.8
(1017. RAD/SEC)	2500	95.4	95.4	95.2	93.6	98.8	98.4	95.3	91.4	88.5	85.4	82.7	82.1	82.1	82.3	82.5	79.6	143.3
MFL 10625. RPM	3000	90.9	96.2	96.1	95.2	98.6	97.0	95.1	91.1	86.4	83.0	81.4	82.0	79.2	79.3	80.1	79.4	143.1
(1113. RAD/SEC)	4000	95.2	97.3	95.6	96.7	100.5	99.3	92.2	89.4	87.6	85.4	82.7	80.3	82.1	81.4	81.8	76.8	144.5
MFO 10625. RPM	5000	96.5	94.8	94.6	92.0	95.5	95.1	93.4	88.3	82.7	81.5	78.8	78.3	79.3	77.2	77.5	75.7	141.4
(1113. RAD/SEC)	6000	92.9	94.2	93.4	92.5	96.3	95.3	91.4	87.2	82.5	80.0	78.1	77.9	76.1	76.0	77.2	74.5	141.7
MFP 10625. RPM	8000	91.8	92.3	90.3	90.3	93.3	92.0	89.3	84.7	81.1	91.9	85.1	83.6	82.7	83.8	82.8	80.5	141.5
MFR 10625. RPM	10000	86.6	88.8	86.3	86.6	90.9	90.7	84.7	80.6	76.6	75.3	72.5	71.2	70.5	69.6	70.6	67.8	135.2
MFS 10625. RPM	12000	84.7	85.0	82.2	83.4	89.1	87.1	82.0	77.1	74.4	73.9	68.9	68.8	68.0	67.1	68.1	65.4	137.3
MFT 10625. RPM	14000	80.9	82.5	78.1	79.4	84.6	83.2	79.3	77.0	76.3	87.2	79.2	78.1	77.4	79.1	78.2	75.7	140.0
OVERALL MEASURED		107.0	105.1	108.3	111.0	115.1	115.1	110.0	106.0	103.3	103.2	104.4	99.9	100.7	98.1	100.0	96.5	
OVERALL CALCULATED		106.9	106.2	109.0	111.6	115.1	115.4	110.6	105.7	104.0	103.0	105.0	100.5	101.4	98.2	100.2	98.4	158.9
RMSE		119.0	119.1	119.6	121.1	124.9	126.1	120.2	116.4	113.7	112.7	113.4	109.7	110.1	108.7	109.2	107.4	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PdL
FREQ. (C)	(0.17)	(0.35)	(0.52)	(0.78)	(1.07)	(1.45)	(1.92)	(2.51)	(3.26)	(4.24)	(5.51)	(7.23)	(9.54)	(12.57)	(16.50)	(21.47)	
RADIAL 100. FT.	82.6	81.7	81.8	79.0	80.2	78.0	80.9	78.6	78.2	77.8	76.9	76.7	75.6	77.7	75.9	78.1	129.3
( 30. M)	63	77.0	76.3	75.9	75.2	93.4	77.1	80.1	72.9	73.4	77.0	75.2	74.6	79.0	74.8	74.0	126.3
VEHICLE ATT	80	78.6	75.9	74.8	74.6	75.0	74.5	78.9	74.4	74.7	75.7	74.7	73.3	70.4	72.4	72.9	124.6
CONFIG T-0	100	75.6	72.8	73.8	71.8	73.3	72.7	78.0	71.7	71.2	72.1	69.7	68.5	70.7	71.9	71.7	122.5
LOC PYO	125	75.9	74.6	72.5	72.3	73.8	74.1	75.7	72.2	69.7	70.2	69.5	78.2	72.3	70.4	71.4	121.9
DATE 06/13/74	160	78.6	71.9	72.8	72.9	74.3	74.0	74.2	83.6	78.2	74.1	75.0	75.5	74.9	74.8	72.2	126.7
RUN 754	200	74.8	73.9	73.2	71.9	72.5	74.8	72.1	72.8	69.1	71.9	68.8	67.7	69.8	69.8	68.0	121.2
TAP 1905	250	80.7	79.9	79.9	79.2	79.2	77.9	78.1	75.1	73.4	73.0	78.8	69.9	78.8	72.0	73.1	125.3
HAD 29.0 MC	315	83.7	84.3	88.1	88.5	94.4	79.8	83.2	86.9	85.5	81.8	86.0	82.9	78.8	76.8	82.8	134.4
(97794. N/M2)	400	74.9	78.9	82.0	81.9	81.3	79.9	79.2	75.7	76.2	75.7	75.8	73.7	75.7	73.9	76.9	128.0
TAP 82. DEG F	500	80.5	85.7	95.8	96.7	96.1	95.9	91.2	88.4	89.3	90.7	86.1	83.4	87.6	83.7	90.6	141.8
(301. DEG K)	630	88.4	89.6	87.2	95.5	103.6	99.5	101.8	97.1	92.4	90.2	90.3	91.9	93.3	85.3	96.2	147.1
INLET 73. DEG F	800	94.8	93.2	107.2	110.0	111.4	102.9	106.6	94.8	101.1	96.9	103.0	91.7	98.8	93.9	94.2	154.9
(296. DEG K)	1000	92.2	91.5	94.2	102.4	106.7	103.0	103.5	98.3	95.3	88.1	95.4	97.1	90.1	84.0	88.1	149.8
FACT 17.18 T/M3	1250	95.9	91.3	96.1	99.3	103.1	101.5	99.5	99.9	91.5	92.4	92.0	91.0	89.8	89.3	87.5	147.1
(81718 KG/M3)	1600	92.9	94.2	94.4	101.5	102.5	105.0	98.4	97.4	92.7	98.1	88.1	83.8	88.9	91.8	90.1	148.1
RPA 9899. RPM	2000	94.5	93.3	94.2	96.6	103.6	104.6	100.5	97.4	90.8	91.3	87.2	87.3	88.2	84.4	89.0	148.1
(1038. RAD/SEC)	2500	94.8	94.1	95.0	93.3	101.2	101.1	97.2	93.0	86.3	87.0	82.4	86.7	83.8	83.8	83.2	145.0
RPM 9687. RPM	3150	95.0	94.5	94.7	91.6	97.6	98.2	96.4	91.4	86.5	86.2	82.2	83.3	82.1	81.4	81.6	143.8
(1014. RAD/SEC)	4000	97.2	95.5	95.5	94.5	97.3	97.4	96.3	91.3	87.4	82.2	81.2	82.1	79.3	78.0	81.1	143.1
RPM 10628. RPM	5000	95.1	97.4	95.3	94.7	99.0	98.5	93.5	88.5	87.3	83.4	83.6	79.2	82.3	81.1	81.6	143.4
(1113. RAD/SEC)	6300	96.2	94.4	93.4	91.6	94.4	92.4	93.9	88.3	83.5	81.5	79.4	79.4	79.3	77.5	78.4	141.2
NO. OF BLADES 44	8000	93.2	94.2	92.5	92.1	95.5	94.5	91.4	87.2	82.6	80.3	78.3	78.1	76.8	76.0	77.2	141.1
16000	10000	91.8	92.2	90.8	89.1	92.3	94.0	90.2	84.7	81.3	92.2	85.8	82.7	81.8	83.8	82.8	141.7
20000	12500	88.5	88.0	86.5	85.8	88.9	89.4	89.7	88.4	75.9	75.7	72.4	78.4	78.4	69.4	71.4	137.3
OVERALL MEASURED	16000	85.0	84.2	82.2	81.9	85.4	87.8	83.1	77.8	73.1	74.1	67.9	68.9	67.8	66.0	66.2	136.2
OVERALL CALCULATED	20000	80.3	82.5	78.4	78.4	82.7	84.3	80.4	76.3	74.6	87.2	79.5	78.3	77.5	79.1	78.2	140.8
PNOB		107.1	105.1	106.9	111.9	115.2	113.9	110.2	105.9	104.2	102.8	104.2	100.9	101.7	98.1	100.8	98.4
		100.6	105.2	109.5	112.2	115.0	113.0	111.3	105.9	104.2	102.1	104.7	100.9	101.8	98.4	100.7	98.3
		119.5	118.6	119.5	121.3	124.2	124.2	121.2	117.3	113.8	112.2	113.2	110.1	110.8	108.9	109.7	107.4

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	)	
50	83.4	82.1	82.0	78.9	83.9	78.4	78.1	78.9	78.2	78.6	76.8	76.7	75.7	79.1	76.9	78.5	128.3
63	82.4	77.5	76.2	74.9	84.4	78.1	75.1	74.1	73.3	76.8	76.8	73.9	73.9	74.9	74.1	75.4	126.7
80	79.6	74.9	74.6	73.9	74.7	74.5	74.8	74.5	73.7	75.7	74.7	72.5	70.3	72.4	72.5	70.8	123.8
100	74.8	73.2	73.8	72.7	74.4	71.7	71.1	71.6	71.5	71.0	69.8	68.8	70.7	71.8	72.0	70.3	121.4
125	80.0	75.3	72.5	72.4	73.5	73.1	71.6	72.3	70.4	69.5	69.4	70.2	72.4	70.4	71.4	70.8	121.5
160	81.7	72.6	72.1	72.0	74.0	73.0	71.1	82.9	78.3	73.0	76.3	74.4	74.9	73.9	73.9	70.0	126.3
200	79.9	73.3	73.2	71.1	72.4	71.8	70.2	72.1	70.1	69.1	69.2	67.9	68.8	76.1	68.1	67.5	120.4
250	82.8	80.3	80.2	78.7	79.4	77.6	78.2	76.0	73.4	72.1	71.0	70.6	70.8	72.8	72.1	71.0	125.3
315	82.8	84.3	87.1	87.1	84.1	78.9	83.1	87.1	86.2	81.9	86.4	82.6	78.8	76.0	84.1	82.5	134.3
400	81.5	79.1	81.8	81.8	81.8	80.7	78.1	76.9	77.8	78.0	74.9	73.5	75.9	74.9	76.8	76.0	128.1
500	87.5	85.9	95.8	96.4	95.9	95.6	92.1	89.6	89.2	91.6	87.0	84.2	88.6	83.6	90.0	88.9	141.9
630	84.0	88.4	86.2	94.3	103.6	100.2	101.3	96.4	91.7	91.1	90.6	92.1	93.4	86.1	95.2	89.3	146.9
800	99.1	90.1	106.9	109.6	112.2	109.0	105.9	94.8	101.2	96.0	103.3	93.9	98.9	95.8	93.1	93.4	155.0
1000	95.2	90.4	94.6	101.9	106.3	103.6	102.5	96.1	95.3	96.2	95.2	97.1	96.3	85.3	87.2	83.4	149.4
1250	94.1	90.2	96.3	98.8	103.5	102.2	99.1	95.9	92.6	93.0	92.0	90.9	89.9	89.3	87.4	86.1	147.2
1600	92.8	94.3	95.4	101.8	102.6	102.4	97.5	97.0	91.4	91.3	88.2	86.1	89.0	91.4	90.1	84.7	148.2
2000	95.0	94.5	94.6	96.4	102.8	103.2	99.6	95.5	90.6	96.3	88.4	86.3	87.2	85.3	84.6	83.7	147.0
2500	95.8	94.4	94.9	94.7	101.4	101.2	96.3	92.1	87.3	87.8	83.3	85.6	84.9	82.8	82.2	81.6	145.0
3150	95.0	93.6	94.7	92.3	96.5	97.6	95.3	91.4	88.4	86.2	83.4	82.3	81.6	80.5	81.9	80.5	142.4
4000	95.9	95.2	95.0	94.2	97.6	97.8	96.5	91.3	87.5	82.9	81.5	82.1	80.8	78.4	80.4	79.6	143.0
5000	95.0	96.4	95.3	95.6	97.9	98.2	92.2	89.2	86.7	83.2	82.7	88.3	81.6	80.5	81.3	76.5	142.9
6300	95.1	94.5	94.7	92.1	94.5	98.3	93.4	88.3	83.4	81.8	79.5	79.1	79.3	78.4	77.5	77.0	141.5
8000	95.2	94.5	92.5	91.9	94.5	94.2	91.5	87.0	82.3	85.3	78.6	77.8	76.2	76.0	78.5	74.5	140.8
10000	91.7	92.5	90.3	88.8	93.0	94.2	90.1	85.0	81.3	91.9	85.3	83.0	81.8	83.9	93.0	81.1	141.8
12500	88.3	87.9	86.6	86.3	88.6	98.5	85.7	88.3	78.7	75.7	72.4	71.4	71.3	69.6	70.5	68.7	137.6
16000	86.7	84.3	82.1	82.7	86.2	88.9	82.1	77.1	75.1	75.0	69.0	68.9	68.1	68.1	68.2	66.4	136.3
20000	81.9	82.5	78.4	79.3	83.5	83.4	79.1	77.3	77.3	87.6	79.5	79.6	77.1	79.4	78.2	75.7	140.2
OVERALL MEASURED	104.1	105.3	109.2	111.7	114.1	113.1	110.9	105.9	104.2	102.2	104.0	101.0	101.7	98.9	99.9	98.4	
OVERALL CALCULATED	100.4	105.0	109.4	111.9	115.3	113.6	110.6	105.4	104.3	102.1	104.9	101.2	101.8	99.3	100.1	97.9	159.0
ONDB	114.1	118.1	119.5	121.2	124.4	123.7	120.3	116.5	113.9	112.0	113.5	110.2	110.9	109.3	109.4	107.3	

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
	50	84.0	75.8	76.1	74.7	77.0	74.7	72.7	73.6	73.3	72.5	72.9	72.7	71.8	73.6	72.0	72.2	123.5
	63	82.7	74.1	74.2	72.0	82.5	77.1	72.2	78.1	70.2	76.0	73.2	69.7	68.0	69.1	70.2	67.5	124.2
RADIAL 100. FT.	80	79.6	68.7	67.7	67.4	67.7	67.5	66.8	63.4	65.1	64.7	66.4	65.2	64.4	65.6	64.7	63.9	115.9
( 30. M)	100	73.6	70.2	70.1	69.1	71.0	68.7	66.9	66.7	67.1	66.0	67.8	68.4	70.6	71.8	72.0	70.0	119.1
VEHICLE ATT	125	75.1	69.3	69.3	70.6	67.4	67.2	65.5	65.1	67.8	67.5	64.5	69.1	67.0	63.4	65.4	65.7	117.0
CONFIG T=0	150	78.7	63.2	65.8	64.2	65.4	66.6	63.1	62.8	62.4	63.9	60.8	68.8	63.8	61.7	60.0	61.0	112.9
LCC PTD	200	75.7	70.0	68.9	66.1	67.1	66.9	63.9	65.0	62.3	62.8	62.1	59.6	60.8	62.1	61.9	61.4	114.2
DATE 08/13/74	250	77.7	76.2	75.7	74.2	74.1	72.0	70.2	69.1	67.1	65.8	65.2	62.6	62.8	63.9	64.9	65.1	119.7
HUM 75%	315	78.8	77.2	77.8	76.2	76.4	74.1	70.2	70.0	69.5	67.0	63.9	62.6	66.7	65.6	64.1	65.2	121.4
TAPE A905	400	76.6	75.1	74.8	73.9	74.0	70.9	68.1	65.9	65.4	64.0	62.8	61.8	65.6	64.9	63.9	63.2	118.8
RAP 29.0 MG	500	75.7	76.0	73.9	72.9	76.1	70.8	65.8	66.6	69.9	68.7	66.5	65.3	68.7	64.5	66.0	64.0	120.0
(97794. N/M2)	630	79.9	81.2	79.1	79.1	81.4	77.0	73.2	71.2	75.4	75.3	73.2	71.1	72.2	67.6	69.0	68.2	125.7
TAIN 82. DEG F	800	79.0	80.2	76.9	80.9	79.4	76.8	79.3	67.7	73.2	72.1	77.2	71.6	73.0	70.9	70.1	67.2	126.1
(301. DEG K)	1000	79.2	79.9	79.4	78.4	77.6	77.0	73.1	72.1	69.7	68.3	69.1	67.8	67.2	67.2	66.2	65.9	123.6
INLET 73. DEG F	1250	81.0	82.0	81.9	81.2	81.5	80.0	75.9	73.7	71.5	69.6	70.9	78.8	72.9	71.9	68.8	67.0	126.6
(296. DEG K)	1600	80.8	80.2	81.0	81.3	81.6	81.2	77.2	74.2	71.3	70.0	70.0	69.1	69.9	69.9	68.2	64.4	126.7
MAF17.18 G/M3	2000	83.2	83.3	85.2	84.4	86.7	87.1	82.4	79.2	75.5	74.1	76.1	73.2	74.2	73.1	73.1	70.9	131.7
(.01718 KG/M3)	2500	84.9	86.1	85.9	87.0	88.3	88.9	85.1	81.0	77.4	75.9	74.8	71.8	75.0	74.0	73.0	70.3	133.5
RFA 6850. RPM	3150	92.1	92.2	92.5	90.6	90.9	90.2	87.3	84.4	80.0	78.2	76.1	73.9	76.1	73.3	74.1	70.6	136.6
( 717. RAD/SEC)	4000	98.3	91.5	91.1	90.2	91.8	91.3	89.2	84.0	80.6	77.0	73.8	77.0	74.1	73.1	72.9	73.1	137.3
REF 6703. RPM	5000	92.1	96.5	95.3	97.3	99.7	101.2	92.3	88.1	86.0	84.5	82.3	78.4	82.4	81.3	80.4	79.4	144.7
( 782. RAD/SEC)	6300	92.4	91.5	90.8	89.4	91.7	91.3	88.4	81.6	77.7	79.7	75.3	73.3	74.4	73.0	72.9	71.7	137.4
REF10628. RPM	8000	93.3	93.5	91.5	92.2	93.6	91.1	88.3	82.1	77.5	76.1	74.3	73.1	71.2	72.0	74.0	69.2	138.9
(1113. RAD/SEC)	10000	86.8	91.9	96.0	90.1	92.1	90.9	86.9	88.1	75.1	72.8	72.1	78.9	78.9	71.1	69.8	68.3	138.4
NO. OF BLADES 44	12500	89.3	87.9	85.7	86.5	88.8	87.3	83.6	76.6	73.0	82.5	75.6	73.5	72.4	74.3	73.7	78.7	136.8
	15000	82.7	85.0	82.0	82.9	85.4	84.0	80.4	71.8	68.3	77.1	70.1	68.0	68.0	69.1	68.2	65.4	135.0
	20000	77.9	80.2	77.3	78.2	79.7	79.2	74.2	68.3	66.5	77.5	73.4	69.2	68.3	70.3	68.4	66.6	133.5
OVERALL MEASURED		104.0	101.4	101.0	101.4	103.3	103.5	98.2	92.9	90.5	91.0	89.2	87.1	88.0	87.9	88.2	85.6	148.8
OVERALL CALCULATED		100.2	101.8	100.8	101.2	103.2	103.5	97.8	93.1	90.2	90.3	87.8	85.8	87.1	86.3	85.9	83.3	
PNOB		113.5	115.2	114.4	115.3	117.2	117.7	111.2	107.1	104.7	103.3	101.6	99.1	101.4	100.4	99.6	96.4	

756

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
	(0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
	50	80.8	75.7	70.8	74.7	78.3	73.7	72.9	73.6	74.9	72.6	72.7	71.7	71.6	73.6	72.0	72.2	123.4
	63	79.8	74.8	74.1	72.2	83.1	70.8	71.9	70.8	75.1	75.6	72.1	69.8	67.9	69.8	69.8	67.1	124.7
RADIAL 100, FT.	80	75.6	68.8	68.5	67.7	58.8	67.4	66.5	67.4	70.7	65.4	66.4	66.2	64.3	65.6	64.6	63.7	117.0
( 30, M)	100	75.6	71.9	71.8	68.8	71.0	67.9	66.8	66.9	75.3	66.0	65.8	65.8	69.9	67.7	69.7	67.0	119.5
VEHICLE ATT	125	75.1	73.3	69.2	69.9	67.6	66.4	65.4	65.3	84.7	67.2	63.5	65.1	66.2	62.5	65.2	65.7	124.8
CONFIG T=0	160	71.6	63.9	65.8	64.1	65.1	62.9	63.2	62.8	74.0	62.1	61.0	60.8	63.2	61.8	60.7	61.2	116.0
LOC PTO	200	71.7	70.1	68.1	66.1	67.1	63.0	64.0	64.1	76.4	63.2	61.2	59.8	60.1	62.1	60.6	61.4	118.1
DATE 08/13/74	250	79.7	78.2	74.9	73.9	73.5	72.8	70.0	68.7	75.4	67.0	64.8	62.6	61.7	63.0	64.1	64.4	120.7
NUM 757	315	77.7	77.2	79.2	76.9	77.1	75.0	71.1	70.9	76.4	68.8	63.8	62.6	67.0	66.8	64.1	65.0	122.8
TAPE A905	400	75.6	74.9	75.8	73.8	74.3	71.0	68.0	66.9	76.2	65.0	63.1	61.6	65.6	65.0	63.7	63.9	120.7
BAR 29.0 HG	500	74.4	73.7	72.5	72.7	75.0	64.7	66.6	67.4	76.9	68.6	66.7	64.3	66.6	64.8	65.7	63.1	121.0
(97794, N/M2)	630	78.9	79.3	79.1	78.4	80.6	74.9	72.1	71.9	79.5	74.1	73.4	69.8	71.0	67.2	68.7	67.4	125.6
TAMP 83, DEG F	800	74.7	79.3	77.1	71.2	79.4	77.9	80.1	68.6	79.4	71.9	76.0	71.6	71.7	72.1	70.0	68.3	126.8
(301, DEG K)	1000	79.7	78.1	78.3	76.2	77.2	76.6	73.1	70.2	79.4	67.3	68.1	67.0	66.9	67.0	66.0	63.3	124.2
TWFT 73, DEG F	1250	79.7	80.0	81.9	79.2	79.5	75.0	73.8	71.0	83.3	68.2	68.8	68.8	69.7	70.2	67.8	65.4	127.1
(296, DEG K)	1600	80.0	80.1	80.0	80.0	79.6	72.0	73.9	70.9	81.4	69.0	67.3	68.8	67.9	67.2	66.9	63.2	126.5
WACT17.35 GM/M3	2000	80.0	82.3	83.5	83.1	84.7	84.4	81.6	77.3	82.7	73.1	71.5	71.9	71.2	70.4	70.4	68.4	130.5
(.01735 KG/M3)	2500	84.7	83.3	84.9	85.6	87.3	87.0	83.2	78.0	81.5	72.9	71.8	71.6	72.7	71.1	70.4	68.1	132.2
WFA 6848, RPM	3150	92.1	92.7	92.6	90.2	90.8	90.5	86.3	82.1	84.8	76.1	73.4	72.1	73.8	72.4	71.1	69.6	136.6
( 717, RAD/SEC)	4000	91.0	90.2	91.1	90.3	91.4	89.3	89.0	82.8	84.3	75.2	73.0	74.7	72.1	71.9	72.2	71.5	136.7
WFM 6695, RPM	5000	91.4	94.4	94.5	96.5	98.8	96.2	91.5	86.2	86.7	63.4	61.1	76.1	81.3	79.4	78.0	76.6	143.0
( 781, RAD/SEC)	6300	92.3	91.5	90.7	89.4	90.7	91.3	88.4	80.2	83.6	78.6	74.1	73.0	73.1	73.5	72.0	70.7	137.3
WFL10628, RPM	8000	90.3	92.3	91.2	92.4	93.8	92.1	88.2	81.2	84.6	75.0	73.0	72.8	71.1	71.3	72.2	69.9	139.3
(1113, RAD/SEC)	10000	90.1	93.4	89.3	90.2	91.5	91.0	86.9	79.9	85.1	73.0	71.6	70.6	70.7	69.8	70.0	69.1	138.4
NO. OF BLADES 44	12500	86.5	87.7	85.5	87.6	87.9	87.8	83.5	76.3	85.8	82.3	76.5	73.3	72.6	74.7	73.0	71.5	137.4
	15000	83.0	84.0	82.1	83.2	85.2	83.4	86.0	71.9	84.6	76.2	70.0	69.0	68.0	68.2	68.0	67.1	136.1
	20000	79.0	79.3	76.5	78.1	79.7	77.4	75.3	67.3	83.8	76.5	69.3	68.9	68.3	68.1	68.4	67.6	135.8
OVERALL MEASURED	100.8	101.4	100.1	100.0	102.6	102.0	98.0	91.9	99.2	91.0	89.0	86.8	87.8	87.0	88.2	87.4		
OVERALL CALCULATED	100.1	100.8	100.5	100.9	102.5	101.8	97.4	91.6	96.4	89.4	86.7	84.7	85.9	85.2	84.7	82.7		148.4
PWDB	115.2	113.0	113.9	114.6	116.4	117.6	110.5	105.5	108.8	102.3	100.3	97.6	100.2	98.9	98.0	95.6		

X



	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PWL	
FREQ. (0.)	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )		
RADIAL 100. FT. ( 30. M)	50	60.8	76.1	76.8	75.1	77.3	74.9	74.0	73.6	74.2	73.8	72.9	72.7	71.9	73.6	71.9	72.3	123.9
VEHICLE ATT	63	51.9	76.6	74.2	72.0	82.1	77.0	73.1	70.8	72.1	76.3	72.2	70.0	68.9	69.1	70.1	67.1	124.2
CONFIG T=0	80	62.6	66.3	68.7	67.4	58.7	68.6	67.8	66.7	68.7	66.9	67.5	69.6	64.4	66.4	66.7	64.8	118.8
LOC PTD	100	77.9	71.9	71.9	70.1	72.0	68.9	68.1	67.0	67.2	68.2	67.7	69.9	69.6	67.7	69.7	69.0	118.7
DATE 08/13/74	200	79.8	73.3	68.9	65.9	67.1	63.8	64.3	64.8	62.4	65.3	60.6	59.9	59.8	62.1	61.1	62.4	114.3
RUN 758	315	79.6	77.1	77.9	75.2	75.4	71.8	69.9	67.9	67.1	66.0	63.2	62.6	64.7	64.8	64.1	63.1	120.3
TAPE A905	400	77.6	75.1	76.8	73.8	73.3	70.0	67.8	65.7	66.2	67.9	63.1	62.8	65.6	64.7	64.0	63.0	119.1
BAR 29.0 HG	500	76.7	74.9	73.6	72.4	75.0	69.7	65.6	63.7	71.1	70.9	66.7	65.6	66.6	65.0	65.0	63.8	120.0
(97794. N/M2)	630	79.9	80.2	75.3	78.3	95.3	72.0	71.3	72.1	75.3	76.5	74.8	69.9	71.2	67.1	69.3	67.6	125.1
1AMP 83. DEG F	800	79.0	79.9	77.1	60.9	79.1	77.1	80.4	68.8	72.1	70.9	75.9	72.9	72.0	72.9	70.8	68.4	126.1
(381. DEG K)	1000	79.2	78.5	78.3	76.3	77.3	76.2	73.1	70.9	68.3	71.4	69.0	67.0	67.2	66.9	68.0	65.5	123.8
TWET 73. DEG F	1250	80.7	80.9	81.0	78.9	79.4	78.8	73.9	72.8	69.4	74.2	69.9	68.9	69.9	70.1	68.1	69.5	125.1
(296. DEG K)	1600	80.8	80.1	80.4	80.0	79.3	78.8	75.4	72.2	68.5	71.2	69.0	68.8	68.0	67.9	67.2	63.5	125.1
FACT17.35 GM/MS	2000	82.9	83.2	83.2	83.5	84.4	80.4	81.3	78.4	73.4	73.4	72.4	74.2	71.3	71.1	71.1	68.6	130.1
(.01735 KG/MS)	2500	84.6	85.2	85.9	86.2	86.3	80.7	83.8	77.9	75.3	74.1	72.1	71.7	72.2	71.8	71.0	68.5	131.8
NFA 8854. RPM	3150	93.1	93.4	92.4	90.7	91.6	90.3	86.4	82.2	77.4	77.4	74.3	71.9	74.3	72.4	71.4	70.7	136.6
( 718. RAD/SEC)	4000	90.9	90.5	91.2	89.5	91.4	89.1	88.1	82.9	79.4	75.3	73.8	74.0	73.1	71.2	71.9	72.5	136.2
MPK 6701. RPM	5000	91.4	95.5	95.6	96.4	98.9	98.4	91.3	87.2	84.6	83.2	82.1	77.2	80.3	79.2	79.7	79.7	143.2
( 702. RAD/SEC)	6300	92.3	91.7	90.5	89.5	90.8	91.3	88.4	80.6	75.4	78.4	74.2	73.0	73.4	72.5	72.4	70.8	136.8
NFC10626. RPM	8000	90.1	93.5	91.4	91.6	93.8	91.2	87.5	81.4	76.6	75.4	74.8	73.0	71.1	71.0	73.0	69.5	138.8
(1113. RAD/SEC)	10000	89.9	91.0	90.1	90.3	91.2	91.2	87.0	79.3	75.0	71.9	71.8	69.6	71.0	69.6	70.1	69.5	138.2
NO. OF BLADES 44	12500	89.6	87.6	85.7	86.6	88.1	87.5	83.5	76.3	72.8	81.6	75.5	73.1	72.3	73.5	73.3	70.6	136.4
	15000	84.0	84.0	82.2	84.0	85.2	83.1	80.3	72.0	68.1	76.1	69.9	67.7	68.9	68.1	65.5	65.5	134.8
	20000	82.2	79.5	77.2	78.2	79.7	76.3	74.4	68.3	65.7	77.4	70.3	69.0	68.3	69.3	68.1	69.6	133.3
OVERALL MEASURED	110.7	102.1	101.0	100.0	102.6	101.1	96.9	92.9	90.2	94.5	88.9	87.0	87.9	86.9	88.5	87.3	87.3	
OVERALL CALCULATED	100.7	101.5	100.8	100.7	102.5	101.6	97.1	91.9	89.8	89.6	87.2	85.1	85.7	85.1	89.1	85.0	85.0	148.0
PNOB	114.2	114.5	114.5	114.5	116.4	115.6	110.4	106.1	103.4	102.6	101.1	98.2	99.8	98.8	99.0	96.3		

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PHOC. DATE - MONTH 8 DAY 30 HR, 18.6

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	10,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
FREQ. (0,	(0.17)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	)		
	50	83.6	76.1	76.0	75.0	76.2	73.4	73.0	72.7	72.5	72.7	72.0	71.8	71.7	72.6	71.4	71.2	123.0
	53	80.8	74.1	73.9	72.0	73.2	70.0	73.1	71.7	71.7	71.7	72.9	70.9	71.9	71.9	71.9	71.0	124.8
RADIAL 100. FT.	80	77.4	88.8	87.5	87.4	88.7	87.4	86.7	85.5	84.2	84.8	86.5	85.5	84.6	86.4	84.7	83.7	116.0
( 30. M)	100	70.4	69.2	70.8	88.6	70.3	57.7	60.1	65.8	66.2	66.9	66.8	65.8	67.6	67.7	68.7	70.2	117.7
VEHICLE ATT	125	74.2	69.3	68.4	70.5	66.8	65.3	63.6	64.4	66.7	67.2	64.2	68.3	68.4	64.1	65.2	64.7	116.6
GEOM. T=0	160	71.0	64.2	65.8	64.1	65.2	63.9	63.1	62.9	62.0	62.0	61.2	61.5	63.7	63.9	62.7	62.5	113.1
LDC PTD	200	71.7	70.3	69.1	66.9	68.1	65.8	64.2	64.1	62.1	63.0	62.2	60.6	60.8	64.8	62.0	62.4	114.5
LATE 08/13/74	250	77.0	77.0	70.2	74.2	74.1	71.8	70.2	69.0	66.3	66.8	65.2	63.6	62.8	63.8	64.8	65.0	119.8
RPM 759	315	77.7	77.3	77.1	75.9	76.1	72.9	70.8	68.8	68.9	66.9	63.9	63.6	65.9	66.9	65.1	64.1	120.9
TAPE A905	400	72.9	71.8	75.0	73.6	73.0	69.9	67.9	64.9	64.8	64.7	63.7	62.5	64.9	66.9	64.7	64.2	118.6
MAX 20.0 HG	500	74.4	74.7	72.8	72.6	74.8	71.5	66.6	66.8	69.6	68.8	67.6	64.6	66.4	66.6	65.8	63.8	119.6
(27794. N/M2)	630	78.9	79.5	78.3	78.4	80.3	75.1	71.3	71.0	74.3	74.0	74.0	69.8	71.2	69.2	69.5	67.5	124.7
TANK 83, DEG F	800	72.1	70.0	76.2	80.1	79.0	77.0	80.5	69.0	72.1	73.8	75.8	70.6	69.8	74.0	70.1	69.0	126.0
(301, DEG K)	1000	70.2	73.2	77.2	76.1	76.4	75.3	71.4	69.9	67.1	67.0	67.0	66.1	66.2	69.9	65.3	62.6	122.0
INLET 73, DEG F	1250	74.9	70.3	79.9	76.9	79.4	77.0	73.2	70.8	68.0	67.8	68.2	68.9	69.0	72.1	67.8	64.3	124.4
(295, DEG K)	1600	80.1	80.1	80.0	79.0	78.5	77.9	73.0	69.9	67.2	68.1	67.3	68.0	67.9	71.0	67.0	65.2	124.2
MACH 17.35 GM/MS	2000	82.1	81.0	83.5	82.5	83.6	83.4	79.5	75.4	71.6	71.1	70.1	70.9	71.0	71.4	70.1	68.4	128.7
(101735 KG/MS)	2500	82.0	85.3	84.8	84.9	86.0	85.0	82.0	77.9	73.2	71.8	71.1	69.9	72.0	70.9	70.1	68.0	131.3
NFA 8849, RPM	3150	92.0	92.6	92.6	90.5	90.6	89.1	85.6	81.2	76.6	76.2	73.1	71.8	73.9	72.2	71.4	69.6	135.9
( 717, RAD/SEC)	4000	91.2	91.2	90.1	89.4	90.6	89.0	88.2	82.3	78.1	74.9	72.9	74.7	72.1	71.9	72.3	71.5	135.9
RPM 8696, RPM	5000	91.2	94.4	94.4	95.5	98.6	90.2	91.3	87.2	84.6	82.4	81.2	76.1	80.5	78.5	78.2	73.4	142.8
( 701, RAD/SEC)	6300	91.3	91.6	90.6	89.7	89.8	89.0	87.8	80.3	75.8	76.3	74.2	72.3	72.4	72.4	72.2	70.8	136.3
NFA 8628, RPM	7000	93.1	92.6	91.5	92.1	93.4	91.2	87.5	83.4	77.6	75.3	73.3	72.8	70.9	71.9	73.1	69.3	138.7
(1113, RAD/SEC)	10000	89.0	90.4	89.3	89.2	91.2	90.2	86.1	79.2	74.0	72.1	70.8	69.9	70.0	70.7	70.0	68.3	137.5
NO. OF BLADES 44	12500	89.2	88.0	85.5	86.5	88.0	87.4	83.7	75.4	72.7	81.6	75.4	73.1	72.6	74.5	73.6	70.9	136.4
	16000	82.9	84.3	81.2	82.9	84.4	83.4	80.2	72.1	68.4	70.3	70.2	68.7	67.1	71.1	67.0	66.4	134.3
	20000	77.2	78.3	76.5	77.2	78.6	78.3	74.3	68.1	66.7	76.5	69.4	68.9	68.0	71.1	68.1	66.0	132.7
OVERALL MEASURED		100.8	100.2	100.0	99.9	101.9	100.9	97.0	92.0	89.1	90.2	88.0	86.8	87.2	88.1	87.9	86.5	
OVERALL CALCULATED		94.7	100.9	100.3	100.3	102.2	101.3	96.8	91.5	88.6	89.0	86.6	84.5	85.5	85.7	84.7	82.5	147.6
PNOB		110.1	113.0	113.6	113.9	116.0	115.2	110.1	105.7	103.0	101.0	100.3	97.3	99.6	98.0	95.1		

REPRODUCED COPY OF THE  
ORIGINAL DATA IS POOR

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET [IN DEGREES (AND RADIAN)]

	0.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PHL	
FREQ. (0.)	(0.35)	(0.52)	(0.70)	(0.97)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	81.8	82.0	79.7	80.2	78.7	79.9	78.9	78.1	78.8	78.1	76.7	76.9	79.0	77.0	78.1	128.4	
63	79.8	79.3	76.9	84.3	77.9	75.0	72.8	74.3	76.9	75.9	75.6	76.9	75.8	76.9	76.4	127.2	
RADIAL 100. FT. ( 30. H)	80	74.6	74.7	73.8	74.8	73.4	72.7	71.6	73.7	75.4	73.7	70.5	70.4	71.8	73.4	123.0	
VEHICLE ATT	100	73.1	72.0	71.1	70.3	69.7	69.2	69.0	69.7	69.7	69.7	69.6	70.6	71.7	71.7	120.1	
CONFIG T-0	125	73.3	71.3	70.3	71.7	72.2	70.0	70.1	69.4	70.4	71.1	70.3	74.0	74.1	74.1	121.7	
LPG PTO	160	77.9	78.7	70.8	69.3	82.9	74.9	80.8	71.0	75.0	71.8	70.6	74.7	72.7	74.7	126.7	
DATE 08/13/74	200	84.7	85.2	86.0	72.4	89.0	81.2	86.9	77.2	81.1	76.1	72.9	78.9	71.8	80.0	132.6	
MUL 760	250	74.8	74.2	73.9	74.4	73.6	72.0	71.8	69.1	69.1	68.9	69.9	71.7	72.8	72.1	121.9	
TAPS A935	315	79.7	82.0	91.3	92.5	91.0	90.2	89.0	82.1	86.3	80.0	83.7	85.9	84.8	79.1	82.3	137.6
MAP 26.9 HG	400	84.8	88.3	98.2	99.4	98.0	96.4	95.8	88.4	92.9	86.9	89.7	93.0	91.9	84.8	88.0	144.4
(77645, N/M2)	500	94.6	97.9	105.8	103.8	131.6	102.1	99.6	95.9	92.6	82.9	83.4	89.7	88.9	88.7	94.2	148.9
TAMP 85, CFG F	630	89.3	92.4	100.1	97.6	96.1	95.5	94.2	90.4	87.3	85.4	81.3	85.0	84.1	87.1	88.7	143.2
(307, DEG K)	800	89.7	92.0	97.0	97.5	88.2	94.3	90.0	89.2	85.2	92.3	87.7	86.8	88.0	92.3	83.2	143.1
SWT 71, DEG F	1000	89.0	92.1	101.2	101.4	131.3	100.2	94.4	88.7	86.3	88.5	89.9	88.1	90.1	87.4	84.4	146.3
(295, DEG F)	1250	89.0	92.2	97.0	99.4	101.9	98.1	93.1	88.5	90.9	85.9	88.7	93.2	89.0	90.1	78.1	145.9
(.01511 KG/M3)	1500	91.9	93.1	93.3	96.6	94.3	91.4	90.3	86.5	86.3	84.1	82.9	83.0	83.8	80.4	79.0	140.5
REF15.11	2000	90.1	90.6	93.4	96.8	96.2	92.7	86.1	84.3	82.0	81.6	81.1	81.4	79.2	79.5	79.0	140.6
(.01511 KG/M3)	2500	91.1	93.0	96.8	100.5	98.9	94.1	90.0	85.0	83.2	82.9	84.3	83.3	82.0	81.0	81.0	143.4
REF10921, RPM	3150	92.2	91.3	91.5	95.8	95.0	92.3	90.2	84.6	83.3	80.6	81.1	81.6	80.6	80.2	76.0	140.3
(1143, RAD/SEC)	4000	92.9	92.5	92.1	96.4	93.1	92.2	89.2	84.4	80.4	79.2	81.3	79.3	78.5	81.4	78.8	140.2
REF10662, RPM	5000	93.2	92.6	92.7	97.5	96.2	89.8	86.4	85.3	82.1	81.6	79.3	81.6	79.6	81.4	75.5	141.2
(1116, RAD/SEC)	6300	92.2	91.7	89.4	92.0	92.6	89.0	84.5	80.7	79.4	78.8	78.3	79.4	77.8	77.6	74.8	138.2
REF10629, RPM	8000	94.1	89.4	88.3	92.4	92.2	88.4	85.3	81.4	79.3	77.7	79.2	78.1	76.4	78.6	73.4	138.6
(1113, RAD/SEC)	10000	86.3	87.3	87.4	90.5	90.4	90.3	83.1	79.4	88.5	82.5	81.4	81.4	82.4	81.2	78.0	138.8
NO. OF BLADES 44	12500	84.5	82.0	83.9	87.2	86.6	81.0	78.6	73.2	81.7	76.0	75.5	74.9	75.9	74.9	73.1	135.4
	15000	80.3	79.4	79.7	82.9	82.2	77.5	74.3	71.9	69.6	67.4	69.2	68.3	65.6	67.4	64.4	132.5
	20000	78.7	74.9	76.0	79.1	80.0	75.3	73.1	73.1	82.2	76.4	75.9	75.0	76.3	75.9	73.2	136.0
OVERALL MEASURED		105.1	104.3	110.2	110.3	109.7	107.4	105.8	101.1	99.9	97.9	97.8	99.8	99.1	98.9	99.2	
OVERALL CALCULATED		102.8	104.4	109.8	110.4	109.6	107.6	106.8	100.3	99.8	97.4	97.2	99.3	98.3	98.0	97.7	155.4
PNRB		117.9	116.3	119.3	122.1	121.2	117.5	114.7	110.3	109.3	107.5	107.4	109.1	107.8	107.5	106.7	

	0,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL															
	(0)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )															
FREQ.	50	63	80	100	125	159	200	250	315	400	500	630	800	1000	1250	1590	2000	2500	3150	4000	5000	6300	8000	10000	12500	15900	20000				
RADIAL 100. FT. (30. M)	82.8	83.3	81.3	81.2	79.9	79.1	79.9	80.0	79.9	79.0	78.5	78.1	80.2	78.9	79.1																129.5
VEHICLE ATT	61.7	62.9	70.2	84.1	77.9	77.2	78.8	75.1	79.3	78.2	78.6	74.9	74.1	78.2	77.9																128.5
CONFIG T=0	75.4	75.7	73.5	74.7	74.4	72.9	72.6	74.7	75.5	74.4	71.5	70.7	72.5	73.5	72.6																123.5
LDC PTD	73.8	72.8	72.1	72.0	71.0	71.0	70.7	70.0	70.0	70.2	70.5	70.8	71.9	72.1	71.1																120.9
DATE 08/13/74	75.5	72.3	72.2	71.6	72.4	70.6	70.1	69.7	71.5	70.5	70.9	73.1	73.4	73.4	73.0																121.7
RUN 761	74.6	78.3	74.8	71.3	82.7	76.2	80.6	72.3	73.7	72.7	64.8	76.0	73.7	74.1	76.2																126.8
TAPE A905	85.0	83.9	86.2	75.1	89.0	81.4	87.1	78.3	79.0	78.2	73.6	80.2	72.1	78.3	80.0																132.6
BAR 28.9 HG	95.4	99.8	106.8	104.2	102.5	103.7	101.6	96.9	93.6	83.0	84.8	86.8	89.6	91.9	95.9																150.0
(97645. N/M2)	90.3	94.2	101.6	98.5	97.1	97.5	99.5	91.4	86.4	86.6	82.1	86.3	85.1	88.3	90.0																144.5
TACH 85. DEG F	80.7	92.2	97.2	97.2	100.0	90.5	99.5	99.4	86.4	89.1	93.1	89.4	91.2	88.0	93.5																144.0
(302. DEG K)	89.3	93.6	101.2	102.7	102.9	101.5	99.5	99.4	86.4	89.1	90.9	89.4	91.2	88.6	94.0																147.4
INLET 71. DEG F	87.8	96.1	95.0	98.3	100.9	97.5	92.8	87.1	91.2	85.1	85.8	92.3	88.9	90.1	77.0																144.7
(295. DEG K)	90.4	94.4	96.1	96.6	93.0	91.2	91.2	86.2	87.0	80.1	83.9	82.1	83.0	81.3	79.0																140.9
WALT 15.11 GM/M3	90.4	93.3	92.5	96.3	96.3	93.2	86.2	83.6	81.6	80.6	82.1	81.4	79.1	81.5	79.7																140.5
(.01511 KG/M3)	91.8	94.1	97.0	102.3	99.9	95.2	90.6	85.4	84.2	83.4	83.8	83.0	84.0	83.1	79.0																144.6
WFA 18920. PPM	91.3	91.4	91.3	96.8	96.0	91.5	90.5	84.3	84.2	81.6	81.1	81.4	80.4	80.5	77.6																140.3
(1143. RAD/SEC)	93.3	92.9	92.1	96.6	94.0	92.2	89.3	84.2	80.2	79.2	82.3	79.1	79.0	80.3	78.2																146.5
WFM 10661. RPM	92.4	92.3	92.4	96.8	95.2	89.3	87.0	84.6	82.3	83.7	79.2	80.3	80.2	80.5	74.0																140.5
(1116. RAD/SEC)	92.2	90.5	88.4	91.9	91.4	88.8	84.2	80.8	79.4	77.9	78.4	78.4	77.3	77.7	74.9																137.5
WFI 10628. RPM	90.1	89.3	89.4	92.7	91.5	87.6	85.0	81.7	78.2	77.7	78.2	77.2	76.3	78.4	73.4																138.2
(1117. RAD/SEC)	80.0	87.2	86.3	90.6	90.2	85.1	83.0	79.6	89.4	82.2	82.1	81.1	83.8	81.6	74.0																138.8
NO. OF BLADES 44	84.4	82.8	85.0	87.0	85.9	81.8	77.7	75.0	82.0	77.2	75.7	75.6	77.2	75.9	75.0																135.2
12500	81.2	79.7	79.4	84.6	82.6	78.4	74.3	73.8	76.5	67.7	76.5	69.0	66.6	67.4	55.0																133.2
14000	78.0	75.9	75.9	81.0	79.1	76.0	74.9	75.1	83.0	70.1	76.0	74.8	77.0	76.1	74.1																136.6
20000	104.1	105.1	110.9	110.4	110.9	107.4	105.9	101.3	101.2	98.8	97.7	100.0	99.2	99.0	99.2																156.0
OVERALL MEASURED	104.1	105.1	110.9	110.4	110.9	107.4	105.9	101.3	101.2	98.8	97.7	100.0	99.2	99.0	99.2																
OVERALL CALCULATED	104.1	105.5	110.5	111.0	110.2	105.5	105.7	101.0	100.5	98.1	97.9	99.7	98.8	99.0	98.7																
PWDB	110.2	117.2	114.8	123.1	121.7	117.0	115.3	110.7	109.9	107.9	106.0	108.9	108.2	108.3	107.7																

12.27

	0,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
FREQ. (10,	(0.35)	(0.52)	(0.72)	(0.97)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
	50	82.5	84.2	82.1	81.2	81.5	81.3	80.8	81.1	79.7	78.2	76.2	76.2	79.2	79.3	80.0	130.0
	53	79.3	79.0	77.7	74.1	75.1	74.0	73.7	75.8	77.9	75.2	73.9	74.2	73.9	74.2	74.2	127.1
RACIAL 100. FT.	60	74.7	75.3	74.7	74.0	73.7	72.0	72.2	73.4	74.3	72.5	69.9	70.4	70.6	73.9	73.4	122.8
( 30. M)	100	74.1	74.3	73.0	71.9	70.9	69.0	69.9	69.6	69.6	69.1	69.0	71.1	71.2	74.0	72.0	120.9
VEHICLE ATT	125	70.4	74.6	73.2	73.5	73.3	72.2	71.3	70.2	72.3	72.4	70.3	75.1	75.4	79.3	75.2	123.7
CONFIG Y=0	150	81.1	75.9	83.7	79.3	79.2	72.8	30.7	74.9	74.0	73.8	71.1	74.0	76.1	74.8	77.0	127.7
LCC PTO	200	80.0	82.1	89.8	85.1	85.3	86.2	87.0	80.1	78.7	79.6	73.9	79.2	80.4	78.1	81.9	133.5
DATE 08/13/74	250	70.4	76.9	76.8	76.1	75.4	74.2	72.8	70.7	70.8	69.4	69.1	71.9	72.0	73.0	73.0	123.2
REF 766	315	79.4	83.9	91.9	93.2	92.2	91.0	88.8	82.8	87.1	81.4	82.1	87.0	83.3	80.1	82.9	138.2
TANK A906	400	84.2	89.9	99.9	100.0	99.2	97.0	95.9	89.0	93.7	88.1	89.5	93.6	90.4	86.1	89.0	145.1
GEN 28.9 KG	500	96.0	98.9	107.6	105.0	103.1	104.1	101.7	97.8	93.8	83.0	86.0	91.6	89.8	92.0	96.0	150.8
(07550. N/M2)	630	90.2	93.1	101.7	98.3	97.3	97.1	95.2	92.0	88.1	85.5	82.4	86.0	85.1	88.2	90.9	144.5
TANK 85. DEG F	800	80.2	93.0	98.0	98.2	99.3	97.5	90.9	91.2	87.9	92.2	88.4	85.8	89.3	92.0	88.3	144.2
(302. DEG K)	1000	87.5	92.2	102.3	102.3	103.4	102.4	96.1	92.0	88.3	88.4	96.3	89.0	90.3	87.3	84.1	147.7
TWET 71. DEG F	1250	87.2	96.2	98.1	99.0	101.3	98.5	93.2	89.8	90.9	85.3	87.2	91.0	88.3	91.2	91.0	145.4
(295. DEG K)	1600	90.4	93.1	97.2	97.5	94.3	91.4	91.5	88.0	85.4	83.4	82.4	83.1	83.3	82.3	81.0	141.4
FACT 15.11 IN/M	2000	80.0	90.6	93.3	96.5	97.4	94.0	87.4	83.1	82.0	80.6	81.5	81.1	79.4	80.7	81.2	141.3
(.01511 KG/M3)	2500	91.2	93.0	96.2	100.2	98.5	97.2	88.7	88.9	83.6	79.3	81.1	85.0	82.2	82.1	80.0	143.3
FA10920. RPM	3150	89.9	91.6	92.5	95.4	95.6	91.7	89.4	95.0	82.3	79.7	81.4	81.1	79.8	81.5	77.0	140.3
(1143. RAD/SEC)	4000	92.3	92.4	93.2	96.3	93.2	92.2	87.9	84.6	79.8	77.6	81.5	79.3	76.1	79.5	79.0	140.2
NFA10661. RPM	5000	91.7	92.0	93.5	96.6	95.6	89.8	86.2	85.2	81.2	79.8	79.5	81.1	79.5	80.8	75.2	140.8
(1116. RAD/SEC)	6300	91.6	93.8	89.3	91.5	91.9	89.0	84.1	81.1	78.4	77.6	77.4	79.2	76.6	77.5	74.4	137.7
NFA10628. RPM	8000	80.9	89.7	90.4	93.7	92.4	87.0	84.0	82.0	78.1	76.7	77.4	77.4	75.5	77.3	74.1	136.7
(1113. RAD/SEC)	10000	87.7	87.1	87.0	90.3	89.2	86.0	82.2	80.2	80.0	82.0	81.4	81.2	82.4	82.3	79.4	138.8
NO. OF BLADES 44	12500	80.3	81.9	84.8	87.3	86.9	81.1	77.7	76.9	82.8	76.3	75.1	75.6	76.1	76.1	73.0	135.5
	15000	79.0	78.9	80.5	82.8	81.7	77.7	76.7	73.5	75.3	66.7	67.7	68.3	66.9	66.9	64.6	132.4
	20000	70.3	75.2	75.9	79.2	79.6	70.1	73.5	74.9	84.2	70.5	75.2	75.2	77.2	76.3	75.1	136.0
OVERALL MEASURED		100.4	105.0	112.1	110.1	110.2	107.4	105.9	102.9	101.9	96.2	97.4	99.7	99.2	99.3	100.9	
OVERALL CALCULATED		102.6	109.1	111.4	110.6	110.4	106.9	105.6	102.0	100.6	97.3	97.2	99.4	98.2	98.9	99.9	
PWDB		112.4	116.7	126.9	122.3	121.2	113.1	112.1	111.7	109.4	106.9	107.1	109.0	107.4	108.2	108.0	150.2

↑  
C.T.

766

	0,	29,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL
FREQ. (C)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )
50	81.2	80.4	80.2	81.2	79.3	77.9	77.9	87.9	78.1	76.3	76.0	77.1	77.2	75.2	79.2	130.4
53	79.6	79.9	74.7	84.2	79.0	79.0	74.0	84.7	77.1	73.3	73.0	73.0	72.0	74.2	72.0	128.2
RADIAL 100. FT.	80	79.7	75.6	75.3	74.8	75.9	74.0	82.5	72.7	72.8	73.0	71.7	71.7	71.6	71.6	125.5
( 30. M)	100	79.3	79.2	73.7	76.0	75.4	74.9	82.8	71.0	70.9	69.1	70.9	72.1	73.4	72.9	125.2
VEHICLE ATT	125	74.3	73.2	74.9	73.1	74.2	71.2	70.1	81.1	70.2	67.5	73.4	73.2	71.2	71.5	124.0
CONFIG T-C	160	64.9	70.8	71.6	71.1	72.4	70.6	67.0	80.0	67.0	65.0	66.3	71.0	66.9	68.9	122.3
LOG PTD	200	73.9	73.2	71.1	72.0	72.3	69.3	66.6	78.0	65.0	63.5	63.3	65.1	65.0	66.0	120.7
DATE 08/13/74	250	81.1	81.1	86.8	79.1	76.2	70.4	75.0	83.8	70.9	68.3	68.1	68.1	70.1	71.1	127.2
LOC 767	315	84.4	84.1	82.9	81.0	76.6	70.1	73.7	83.0	71.1	69.1	68.2	70.0	69.4	70.3	127.7
TACH A906	400	80.4	81.9	81.7	80.0	77.1	74.9	70.9	83.9	70.0	78.0	68.0	71.7	70.0	71.4	127.4
PAI 28.9 HQ	500	70.3	78.3	76.6	76.9	75.8	73.9	71.8	80.7	69.8	68.9	67.9	69.8	71.2	71.9	125.1
(47550. N/M2)	630	84.3	83.9	83.7	82.9	82.1	79.1	74.7	86.9	72.0	75.4	75.1	73.9	73.1	72.1	130.6
TACH 85. DEG F	800	84.4	83.1	84.9	83.2	83.2	81.2	79.9	91.2	76.0	80.3	76.5	79.2	73.1	72.3	133.6
(302. DEG K)	1000	84.8	85.1	84.3	80.4	81.7	84.7	87.3	94.1	85.3	83.5	86.5	85.2	78.6	77.5	138.8
INLET 71. DEG F	1250	93.7	95.1	97.9	101.3	105.4	103.4	96.0	109.1	91.4	95.4	88.6	90.9	95.1	91.4	151.9
(296. DEG K)	1600	93.4	96.5	102.1	106.4	109.2	109.3	101.2	110.9	96.2	93.2	93.3	90.1	96.4	93.4	154.8
FACT 15.11 MM/M3	2000	94.6	93.3	97.2	101.5	104.7	104.6	95.0	104.3	88.6	85.6	87.7	86.2	85.8	87.7	149.0
(.01511 KG/M3)	2500	94.4	95.0	97.9	102.2	105.2	102.6	99.1	105.2	93.5	89.0	93.3	89.2	85.4	89.2	150.4
RFA 8410. RPM	3150	93.6	95.8	95.0	97.4	100.6	96.4	94.4	99.2	87.4	84.8	81.5	84.0	80.6	81.5	145.5
( 861. RAD/SEC)	4000	94.4	97.1	96.9	97.4	98.6	97.0	91.9	97.9	84.1	81.1	84.3	81.1	78.5	80.1	145.0
RFA 8211. RPM	5000	93.3	96.5	98.2	98.7	98.8	94.4	88.4	98.2	83.4	82.6	79.4	63.2	79.5	80.5	145.0
( 860. RAD/SEC)	6300	97.1	96.6	95.4	95.6	95.6	94.5	87.3	93.3	86.5	78.5	77.4	79.6	77.4	76.7	142.7
RFA 10623. RPM	8000	94.7	94.6	95.1	95.4	94.4	91.3	86.2	92.2	83.3	78.3	77.5	77.1	76.4	78.5	142.1
(1117. RAD/SEC)	10000	93.7	92.5	91.9	82.2	92.6	91.7	83.1	89.1	76.4	73.2	72.3	73.0	71.4	72.5	140.5
NO. OF BLADES 44	12500	94.2	89.2	89.7	89.8	89.3	87.6	79.6	84.6	72.2	69.1	65.0	68.9	66.9	69.0	138.3
	16000	80.4	89.7	86.3	86.9	85.9	82.6	77.5	83.4	81.9	73.6	72.9	72.6	73.8	73.5	138.0
	20000	81.4	80.2	81.3	81.2	82.4	70.4	72.2	81.1	72.1	65.3	64.2	65.1	64.0	66.3	139.9
OVERALL MEASURED	107.3	106.1	107.6	110.3	113.4	110.0	109.9	114.7	108.1	99.3	98.0	96.8	99.3	98.0	96.0	
OVERALL CALCULATED	107.6	105.7	107.8	110.7	113.4	110.4	109.5	114.7	100.3	99.0	97.7	96.9	99.6	97.6	95.4	159.2
PMDB	119.3	110.9	119.9	122.6	124.6	121.8	117.9	126.0	112.6	109.6	109.8	109.3	110.4	109.2	107.6	

↑  
10600

↑  
10600

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.		
FREQ. (0.)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)			
50	76.5	77.1	76.8	78.1	75.5	73.3	73.9	73.9	72.8	71.4	71.4	72.2	73.1	72.4	73.7	123.9	
63	76.4	75.3	74.7	74.2	76.1	74.2	73.1	72.9	76.8	72.9	71.6	71.9	71.2	72.3	71.1	125.8	
80	74.8	73.6	74.4	75.6	74.0	72.4	72.3	70.8	76.5	71.6	71.8	70.5	70.7	69.6	70.5	122.0	
RADIAL 100. FT. ( 30. M)	130	74.4	73.9	72.6	75.3	73.2	72.1	71.0	70.0	69.7	71.1	69.2	71.8	72.7	71.9	121.8	
VEHICLE ATT	125	72.4	70.5	71.0	72.6	70.3	69.2	71.0	68.0	67.0	65.4	67.6	69.2	67.6	68.3	119.0	
CONFIG T=0	160	64.0	68.3	67.0	68.8	56.3	65.1	65.0	64.0	60.8	62.3	63.0	65.1	62.9	63.6	114.8	
LOC PTD	200	73.2	73.3	70.8	72.0	59.1	67.0	65.8	65.7	63.7	62.4	62.0	62.0	64.3	64.4	117.0	
DATE 08/13/74	250	81.2	80.3	80.0	79.1	77.0	75.2	73.1	71.9	69.9	70.2	67.4	66.9	67.2	69.1	124.2	
HUM 769	315	83.6	83.3	81.8	80.2	77.3	74.2	73.0	71.8	69.9	68.1	66.3	69.1	67.3	69.0	125.3	
TAPE A906	400	81.2	81.9	81.7	81.0	77.2	74.1	72.9	72.9	72.7	72.1	69.3	71.8	72.1	71.1	125.8	
BAR 28.9 HG	500	78.4	77.9	76.7	74.6	73.0	70.1	70.5	68.8	70.6	68.9	67.9	68.6	68.0	70.0	121.7	
(27550. N/M2)	630	83.3	84.1	82.7	80.6	76.2	73.9	73.8	73.1	69.8	69.1	69.2	70.0	69.8	71.1	125.8	
TACH 85. DEG F	800	83.0	82.3	82.7	81.9	80.2	75.1	73.7	73.7	73.8	73.0	73.3	71.8	70.0	70.2	127.0	
(302. DEG K)	1000	83.6	84.4	83.2	82.1	81.4	77.4	74.8	73.2	73.2	74.3	73.4	75.3	73.2	73.5	128.1	
TWET 71. DEG F	1250	84.5	87.1	85.0	84.0	84.4	82.1	79.1	77.9	75.0	77.2	76.3	80.2	77.2	76.3	131.2	
(295. DEG K)	1600	82.5	85.4	85.1	84.1	84.4	78.4	77.1	75.1	73.2	74.2	73.4	73.6	72.1	71.4	129.9	
MACT 15.11 GH/M3	2000	82.6	87.4	88.1	86.4	87.5	83.5	80.0	77.2	74.4	73.1	72.6	74.3	72.3	72.4	132.5	
(.01511 KG/M3)	2500	84.1	90.1	90.9	90.4	90.1	87.2	81.7	78.7	77.0	74.1	74.2	75.8	74.2	74.2	135.3	
NFA 7534. RPM	3150	91.5	93.3	92.5	92.7	92.7	88.4	84.1	80.1	77.6	75.4	74.6	77.2	73.4	74.2	137.9	
( 769. RAD/SEC)	4000	94.4	95.2	94.2	94.1	91.4	91.1	85.0	82.1	77.8	75.1	76.3	75.0	73.2	75.0	139.2	
NFA 7355. RPM	5000	93.8	95.6	96.3	97.4	97.4	91.5	85.4	83.5	81.3	79.4	76.5	79.2	77.2	77.7	142.2	
( 770. RAD/SEC)	6300	94.3	94.5	93.5	94.4	94.5	91.7	84.3	80.5	79.1	76.9	74.7	76.6	74.4	74.4	140.3	
NFA 10628. RPM	8000	93.5	94.5	94.2	94.5	93.3	89.4	82.8	79.5	80.6	75.2	74.5	74.0	73.4	75.2	140.3	
(1113. RAD/SEC)	10000	94.3	92.2	92.0	92.5	91.6	87.5	79.9	77.0	74.0	71.4	70.2	72.0	70.3	71.5	139.1	
NO. OF BLADES 44	12500	89.3	89.2	90.0	90.2	89.3	84.3	76.6	72.9	71.8	68.9	67.4	68.0	67.1	68.1	137.8	
	14000	87.9	85.3	86.4	86.7	84.8	80.4	73.5	70.4	70.8	71.5	70.8	71.5	71.7	71.6	136.6	
	20000	89.5	81.2	81.0	81.4	80.5	72.2	68.9	67.0	71.8	65.3	64.2	64.2	66.2	64.6	133.9	
OVERALL MEASURED	103.3	103.3	102.9	103.3	103.2	94.4	94.0	91.1	92.0	89.2	88.5	89.7	88.1	90.8	89.0		
OVERALL CALCULATED	102.6	103.4	103.1	103.5	102.8	98.9	93.3	90.8	89.6	87.5	86.5	88.0	88.4	86.7	89.5	149.3	
PNOB	117.8	116.6	116.4	116.9	116.4	112.1	106.9	104.5	102.5	100.8	99.5	101.0	99.2	99.7	98.2		

↑  
10° OUT

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 18,2

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)																PWL
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																
	0,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0,	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
50	70.2	79.1	76.1	77.0	74.4	73.1	74.0	73.9	73.0	71.1	71.2	71.9	72.3	72.4	74.2		123.6
63	77.4	79.0	73.9	83.2	77.4	74.2	73.1	72.8	75.9	73.2	71.1	71.6	71.2	73.2	70.8		125.4
RADIAL 100. FT. ( 30. M)	80	75.0	78.6	74.7	74.5	72.7	72.6	71.7	70.4	70.5	71.8	71.8	70.7	70.7	69.9		122.2
VEHICLE ATT CONFIG T=0	100	75.3	75.3	72.7	74.1	72.2	72.1	70.9	70.7	70.0	70.9	69.0	70.9	72.9	70.9		121.5
LOC PYD	125	74.3	71.3	71.2	72.2	69.5	69.2	71.4	68.2	67.1	65.6	67.3	68.4	67.3	68.5		118.9
DATE 06/13/74	160	72.0	69.3	66.9	66.2	65.2	65.9	64.6	63.7	60.8	62.1	63.3	65.9	63.2	63.0		114.8
RUN 763A	200	74.4	76.0	70.8	71.0	69.4	67.1	66.8	64.7	64.0	63.0	62.8	62.9	64.0	64.3		117.4
TARE A906	250	81.4	80.9	79.7	79.0	77.2	76.8	72.7	71.9	69.9	70.3	66.2	66.8	67.1	69.2		124.3
HAR 26.9 MG (97550. N/M2)	315	84.1	83.0	81.7	80.0	77.0	74.3	71.6	71.2	69.9	68.0	66.0	66.8	67.9	68.2		125.0
TAMP 85. DEG F (302. DEG K)	400	81.5	82.1	82.9	82.1	77.9	75.4	74.0	74.0	74.8	72.9	70.2	73.9	74.9	71.6		126.8
INLET 71. DEG F (295. DEG K)	500	78.2	77.9	76.5	74.9	73.0	70.0	69.7	69.7	69.9	68.9	69.0	68.6	68.9	70.0		121.7
MFT 15.11 GM/M3 (.01511 KG/M3)	630	82.9	84.0	83.2	80.1	76.1	73.9	72.9	73.0	69.7	70.2	70.0	69.9	69.3	71.1		126.0
NFA 7532. RPM ( 789. RAD/SEC)	800	82.3	82.2	83.0	82.2	80.2	75.2	75.0	74.6	73.9	73.1	73.1	72.0	70.1	70.2		127.1
NFK 7353. RPM ( 770. RAD/SEC)	1000	85.5	84.4	83.0	82.3	81.4	78.3	74.0	73.0	72.6	73.2	73.5	76.1	74.3	72.2		128.1
NFL1062B. RPM (1113. RAD/SEC)	1250	85.2	86.9	84.9	85.4	84.9	83.1	78.7	78.0	74.7	76.5	75.3	80.0	77.0	75.1		131.4
NO. OF BLADES 4	1500	85.5	85.3	85.1	84.1	85.4	80.5	78.1	74.9	72.8	73.1	73.3	74.1	72.3	72.2		130.2
	2000	80.6	87.4	88.4	86.4	87.8	83.6	79.3	77.2	74.0	73.2	73.4	73.1	72.1	73.4		132.7
	2500	89.5	89.4	90.8	90.2	90.1	89.2	81.7	79.2	76.6	74.3	74.3	74.9	73.9	74.2		135.2
	3150	91.8	93.4	92.1	91.8	92.7	88.5	84.3	80.1	77.9	75.3	74.5	76.6	73.4	74.3		137.6
	4000	94.4	94.3	94.1	93.1	92.1	91.4	84.8	82.0	77.7	75.1	76.6	74.9	72.2	74.2		139.0
	5000	93.5	95.6	96.2	96.4	97.6	91.7	85.1	83.1	81.3	79.5	76.5	76.6	76.5	77.4		141.9
	6000	95.6	94.8	93.3	94.7	94.4	91.4	84.2	80.2	79.1	76.6	74.5	76.3	74.5	74.4		140.3
	8000	94.4	94.4	93.9	94.6	92.3	88.7	82.1	79.1	79.9	75.2	74.5	73.4	73.2	75.2		140.0
	10000	92.7	92.4	93.0	92.2	91.6	87.7	80.0	76.1	73.1	71.2	70.3	71.3	70.0	71.4		139.2
	12500	90.2	89.2	89.8	90.0	89.4	84.8	76.1	72.6	72.5	68.9	67.3	67.7	67.0	67.9		137.7
	15000	89.9	86.0	86.4	86.7	84.5	80.9	73.3	71.5	79.6	71.6	71.0	70.5	71.4	71.8		136.5
	20000	81.5	80.1	81.3	81.3	80.3	75.5	67.1	68.0	72.1	65.1	63.5	64.4	66.3	65.2		133.8
OVERALL MEASURED	103.4	103.2	103.0	103.2	103.2	99.5	94.0	92.0	91.3	89.2	88.4	88.8	88.1	90.0	89.0		
OVERALL CALCULATED	103.0	103.2	103.1	103.1	102.9	99.0	93.2	90.7	89.5	87.4	86.5	87.8	86.4	86.6	85.7		149.2
PWDS	110.8	116.3	110.3	116.2	116.5	112.2	100.8	104.3	102.5	100.9	99.6	100.7	99.0	99.6	98.5		

768A



	0,	20,	35,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PWL	
FREQ. (0,	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	( )	
RADIAL 100. FT.	50	72.5	73.2	73.0	74.5	71.2	71.4	69.9	71.0	70.1	69.4	68.3	68.1	70.2	69.3	59.9	120.4
( 30. M)	63	73.1	72.8	70.8	83.2	75.9	71.4	68.6	71.1	76.8	77.2	68.5	67.1	68.9	70.1	68.8	124.7
VEHICLE ATT	80	69.7	68.8	66.4	68.9	57.8	67.6	67.3	66.3	66.3	66.6	66.8	65.7	66.6	66.0	65.5	116.9
CONFIG T=0	100	72.3	71.0	69.8	71.1	59.0	67.2	70.7	72.0	70.0	66.9	69.0	65.7	69.8	69.1	71.4	119.6
LOC PTO	125	67.3	66.6	67.2	65.2	64.3	66.2	63.9	63.3	61.0	60.6	61.3	63.1	60.2	63.3	62.4	113.2
DATE 08/13/74	150	66.0	65.2	63.7	64.9	62.9	64.1	61.5	60.6	58.6	59.2	60.3	61.8	60.9	60.2	60.2	111.6
HUM 769	200	71.2	71.0	68.8	69.2	67.2	63.1	64.7	63.1	63.2	61.1	59.0	60.9	63.1	62.3	61.9	114.9
TANK 4906	250	70.6	70.9	77.0	75.2	74.0	72.2	69.9	68.6	65.8	64.3	63.1	63.2	64.3	66.0	65.8	121.1
BAR 20.9 HG	315	66.6	61.2	70.8	78.1	75.2	73.0	71.8	69.9	68.2	66.2	65.0	66.8	65.2	68.2	66.2	123.3
( 7550. N/M2)	400	70.1	70.3	76.1	76.1	73.0	70.1	67.8	67.8	64.8	67.0	64.2	65.6	64.7	67.2	65.2	121.2
TANK 83. DEG F	500	77.0	76.2	74.5	72.8	71.0	67.9	65.7	64.8	63.8	66.0	63.0	63.6	63.7	65.8	64.6	118.8
( 1301. DEG K)	630	81.2	81.1	80.9	79.3	76.5	75.2	70.6	68.8	68.2	68.0	65.2	67.9	67.1	68.1	67.0	124.3
TANK 71. DEG F	800	79.7	79.2	78.0	76.2	73.2	72.0	67.9	66.7	66.8	67.0	65.0	64.8	63.2	65.0	63.9	121.6
( 295. DEG K)	1000	81.4	81.3	80.9	77.4	76.4	75.2	69.8	67.1	67.0	66.3	66.4	66.2	65.3	65.2	64.1	123.4
FACT 15.54 MM/M3	1250	81.5	82.5	82.2	80.2	79.5	78.9	70.7	68.7	67.0	66.1	66.3	68.1	67.2	66.5	65.0	125.5
( 0.01554 KG/M3)	1600	83.4	83.5	83.0	81.5	80.7	79.5	72.0	69.1	68.2	66.4	66.4	67.0	66.3	66.3	64.2	126.6
RFA 5664. RPM	2000	84.5	84.8	84.4	83.6	81.5	77.4	73.1	71.0	69.1	67.3	66.8	68.1	66.3	67.6	66.2	128.1
( 608. RAD/SEC)	2500	89.5	90.3	92.3	89.3	88.3	82.3	77.8	74.8	72.8	71.2	70.4	72.1	71.1	71.0	69.1	134.5
RFA 5674. RPM	3150	92.5	94.4	91.3	90.4	89.4	84.4	80.0	75.9	73.9	71.3	71.4	72.3	70.5	71.5	69.1	136.4
( 594. RAD/SEC)	4000	91.1	92.3	92.1	92.3	89.3	87.1	80.9	78.9	75.0	72.2	73.5	72.0	70.3	73.2	72.2	136.7
RFA 10628. RPM	5000	86.6	89.6	91.3	90.6	89.6	82.3	76.2	75.2	72.1	71.5	69.7	71.1	69.4	70.6	67.4	135.2
( 1113. RAD/SEC)	6300	91.5	91.6	91.1	91.4	89.7	85.7	78.1	75.3	73.3	72.4	70.8	71.2	69.4	70.9	70.4	136.4
NO. OF BLADES 44	8000	85.9	89.2	90.2	91.3	90.2	85.2	78.0	76.1	72.2	70.5	70.3	69.2	68.2	71.4	68.5	136.5
	10000	84.3	83.5	86.9	88.6	87.4	83.6	73.8	72.0	71.1	70.3	66.4	67.1	67.2	68.2	67.1	135.2
	12500	80.1	84.8	85.8	87.0	86.0	83.0	71.5	69.8	75.7	73.0	66.1	67.6	67.1	67.9	65.7	134.4
	15000	87.7	91.3	91.3	93.7	91.6	87.6	67.6	67.5	73.1	72.3	64.8	65.4	66.6	65.8	63.7	133.0
	20000	70.2	75.8	77.9	77.9	76.2	73.9	63.7	64.9	72.0	70.1	62.0	62.7	65.0	63.9	60.0	130.6
OVERALL MEASURED		99.3	100.3	100.7	100.3	98.0	94.2	88.9	87.9	87.3	86.5	84.3	84.2	85.1	85.4	89.1	
OVERALL CALCULATED		99.7	100.5	100.7	100.1	98.5	94.8	88.1	86.1	85.4	84.3	81.9	82.2	81.7	82.7	81.5	145.6
PND8		113.5	114.6	114.2	113.3	111.1	107.7	102.1	100.1	97.4	95.6	95.4	95.3	94.1	95.8	94.5	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 18.3

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	29,	32,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	PHL	
FREQ. (0,	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
RAIAL 100. FT.	50	74.2	79.3	78.8	79.5	77.3	76.4	76.9	76.8	76.2	76.3	75.4	75.9	76.2	75.1	76.7	126.6
( 30. M)	63	77.4	76.8	75.1	84.2	78.1	75.2	72.7	72.8	77.8	77.1	73.0	72.6	72.1	73.5	72.2	126.4
VEHICLE ATT	80	75.7	74.9	75.7	74.5	73.7	73.6	73.5	72.7	72.5	73.5	72.9	71.3	71.8	71.6	70.9	122.9
LOC FIG T=0	100	75.3	74.9	73.0	74.8	73.3	70.9	71.5	71.9	69.6	71.9	70.0	71.7	72.9	71.0	74.6	122.1
LOC PTD	125	72.6	74.6	74.9	72.1	71.3	71.2	69.9	70.9	68.9	67.5	70.4	73.1	70.4	69.5	71.0	121.1
DATE 08/13/74	160	79.0	72.3	72.0	76.1	67.0	64.9	67.6	67.9	66.7	63.3	67.2	70.8	66.9	67.1	66.2	118.4
HUI 770	200	74.1	74.3	70.8	70.9	70.1	68.0	67.8	68.1	65.0	64.1	63.2	64.6	65.1	66.2	65.1	117.6
TARE A906	250	81.4	81.1	80.2	79.2	78.1	76.1	74.6	74.0	70.8	68.1	69.2	68.1	69.2	71.2	70.8	125.0
BAR 28.9 HG	315	84.1	83.0	81.8	81.1	78.2	75.9	73.7	73.7	71.9	69.6	68.0	70.2	70.8	71.2	70.9	126.0
(77550. N/M2)	400	89.0	88.9	80.7	80.1	78.0	74.9	71.5	72.6	70.7	70.8	67.9	70.8	71.1	71.1	70.8	125.1
TEMP 83. DEG F	500	76.0	78.8	76.6	76.8	76.1	73.8	71.4	70.9	70.6	69.8	68.1	69.7	70.9	71.8	70.6	123.5
(301. DEG K)	630	83.1	83.2	82.9	82.0	81.1	79.0	74.6	76.9	71.9	75.1	73.3	72.9	72.0	72.4	69.6	127.9
INLET 71. DEG F	800	83.1	82.3	85.0	83.6	83.3	81.2	80.8	80.9	75.8	81.2	70.5	79.1	72.9	72.2	70.8	130.9
(295. DEG K)	1000	82.2	86.2	90.0	90.7	92.3	90.4	88.1	83.0	85.0	84.3	87.5	85.5	77.6	77.4	76.1	137.8
FACT 15.54 GM/MS	1250	94.2	95.3	96.3	101.1	106.2	103.3	96.8	99.9	89.0	95.3	89.7	88.8	95.3	93.3	83.2	149.5
(.01554 KG/MS)	1600	95.4	98.3	101.2	105.1	108.2	107.5	99.0	99.8	96.2	91.4	93.5	89.0	96.4	93.5	89.2	151.7
RFA 8400. RPM	2000	90.6	91.4	97.2	102.5	105.4	96.9	94.2	94.5	90.6	84.4	84.7	85.1	86.6	87.5	92.4	147.6
( 879. RAD/SEC)	2500	92.4	95.2	95.0	96.3	101.3	96.4	94.5	90.1	87.3	84.7	81.5	83.1	80.9	81.5	79.2	144.4
( 840. RAD/SEC)	3150	97.5	97.1	95.9	96.1	96.3	96.2	90.9	88.0	84.1	80.3	84.3	80.1	77.1	79.6	79.6	143.3
RFA 8212. RPM	4000	93.5	97.3	97.3	97.4	97.6	93.6	88.1	88.1	84.5	82.0	76.7	83.3	79.7	80.5	76.4	143.1
( 840. RAD/SEC)	5000	97.6	96.6	95.2	95.6	95.6	94.5	87.2	83.3	80.6	78.6	77.7	79.5	76.5	76.6	76.0	142.0
RFA 10628. RPM	6000	94.6	95.4	94.4	95.3	93.2	91.3	89.1	82.2	84.0	82.3	76.6	77.0	76.3	77.2	75.3	141.2
(1113. RAD/SEC)	8000	93.5	93.2	97.2	93.1	92.3	89.2	83.1	79.0	76.2	74.4	71.3	72.8	71.3	72.9	71.9	139.9
NO. OF BLADES 44	10000	91.0	89.1	89.6	89.9	86.5	82.0	78.6	76.5	71.7	69.0	65.6	66.6	66.6	69.0	66.9	137.7
15000	89.7	89.7	86.4	86.5	85.3	82.7	76.2	74.6	82.6	80.6	72.6	73.4	72.4	73.7	71.3	137.6	
20000	82.2	81.0	80.9	81.0	80.1	75.1	71.0	73.7	72.8	71.4	63.3	64.7	63.2	66.1	64.7	134.4	
OVERALL MEASURED	105.4	105.3	106.9	110.0	113.3	109.2	109.0	105.0	99.9	98.3	97.2	96.0	100.0	98.1	98.1	157.0	
OVERALL CALCULATED	105.4	106.0	107.3	110.3	113.2	110.0	104.5	104.6	100.0	96.6	97.7	96.2	99.7	97.9	96.2		
PND8	110.7	119.0	119.3	122.3	124.5	121.7	117.0	115.4	112.0	109.7	109.6	109.3	110.4	109.0	108.9		

	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
	0,	20,	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,		
FREQ. (0,	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(	)	
50	82.4	83.4	82.1	81.2	80.5	80.1	80.0	80.1	79.3	78.2	77.4	79.1	79.2	79.4	80.1	129.7	
53	79.1	79.0	77.7	84.1	78.1	74.1	73.8	75.8	78.9	77.1	73.6	75.0	75.0	78.0	79.2	127.5	
RADIAL 100, FT. ( 30, M)	80	74.7	74.9	74.4	74.5	73.7	72.9	72.3	75.3	75.6	72.5	70.1	70.4	71.0	74.6	125.4	
VEHICLE ATT	100	72.3	73.0	72.6	70.6	70.2	68.8	69.5	69.6	68.8	66.9	69.1	71.0	71.0	72.0	120.2	
CONFIG T=0	125	72.0	70.2	70.9	71.1	71.6	70.5	68.8	70.0	71.2	76.4	73.2	72.3	74.4	75.2	121.5	
LCC PTD	160	74.4	76.2	73.0	69.9	74.9	70.2	73.7	74.6	70.7	71.9	72.5	71.9	74.9	72.3	123.6	
DATE 06/13/74	200	85.2	87.1	82.8	77.1	85.1	87.2	84.9	85.7	79.1	80.3	81.5	78.0	78.5	71.2	133.0	
RUN 771	250	73.2	74.1	72.8	72.3	73.1	72.2	72.8	70.1	69.9	69.2	69.2	72.0	72.0	73.2	121.8	
TAPP 4906	315	74.3	78.1	81.8	85.0	86.9	84.2	81.9	81.9	76.9	74.1	75.4	77.3	78.3	79.2	131.4	
BAR 28.9 HG	400	85.1	85.1	91.9	97.1	98.3	95.3	92.7	94.0	87.9	84.2	86.1	85.8	89.2	90.0	142.8	
(97547, N/M2)	500	81.9	91.2	95.6	98.1	94.9	85.7	89.7	83.0	84.6	76.9	78.3	81.7	76.8	85.0	140.3	
TAPP 82, DEG F	630	85.0	92.2	96.8	98.9	96.1	87.5	90.9	83.9	86.0	78.0	79.1	82.8	78.0	86.2	141.4	
(301, DEG K)	800	82.1	89.1	90.2	99.1	90.5	87.4	83.9	81.9	80.0	76.1	74.9	85.1	81.2	79.5	135.7	
TWET 71, DEG F	1000	85.5	90.3	99.2	98.4	100.4	90.4	92.3	91.0	88.3	83.5	83.5	91.3	86.3	85.6	144.7	
(295, DEG K)	1250	87.0	95.1	95.0	98.1	95.4	93.1	87.9	86.9	84.1	83.2	77.2	80.1	86.4	79.3	141.4	
FACT 15.82 GM/M3	1600	84.2	90.3	93.0	94.1	100.4	97.0	93.9	85.8	83.3	83.5	80.1	80.1	82.2	83.3	143.3	
(.01582 KG/M3)	2000	87.9	93.5	95.3	96.5	94.7	94.0	92.1	88.2	84.3	84.5	83.3	81.3	78.6	83.4	141.5	
FA 11260, RPM	2500	87.3	90.1	93.1	92.0	94.3	92.3	88.1	83.9	80.1	78.1	81.1	79.1	80.0	81.1	139.0	
(1179, RAD/SEC)	3150	88.4	91.5	94.3	93.3	93.3	89.4	90.1	87.2	81.4	76.4	70.5	80.4	78.6	89.5	139.3	
FA 11018, RPM	4000	90.5	92.2	92.1	95.1	93.3	91.2	86.0	84.8	79.1	78.1	80.1	78.1	78.4	83.4	139.4	
(1154, RAD/SEC)	5000	89.8	92.0	94.1	97.5	96.6	89.4	86.2	85.9	81.2	80.7	79.4	81.1	80.3	82.7	141.4	
FA 10628, RPM	6300	89.5	90.5	89.2	92.3	92.8	89.0	83.9	81.2	77.5	78.5	77.6	79.5	77.5	78.0	138.1	
(1113, RAD/SEC)	8000	87.7	89.3	90.0	91.2	90.6	86.2	82.9	82.3	78.2	70.6	77.3	77.1	76.6	78.4	137.3	
NO. OF BLADES 44	12500	85.2	86.1	86.9	89.2	89.4	84.1	81.0	80.3	88.8	87.2	79.3	80.1	80.2	80.2	138.5	
OVERALL MEASURED	15000	83.0	81.9	83.5	86.8	85.9	80.7	78.7	78.6	89.8	88.0	79.1	80.1	79.8	79.8	138.5	
OVERALL CALCULATED	18000	73.5	77.5	79.4	82.3	81.6	76.7	72.4	73.5	70.4	69.7	64.5	70.2	67.3	68.4	131.7	
PNDP	20000	74.9	74.2	74.9	77.7	77.8	74.1	70.7	73.9	82.9	80.1	72.7	73.8	73.8	73.6	139.7	
		100.4	103.2	106.2	108.0	107.2	105.2	101.8	100.0	98.9	97.3	95.0	96.8	96.0	97.4	96.9	
		99.6	103.3	106.0	107.7	107.8	104.9	101.6	99.4	97.5	95.3	93.4	96.2	95.4	96.0	94.7	
		113.1	113.9	117.8	119.5	119.3	116.2	113.5	110.9	107.1	105.8	105.1	106.4	105.3	106.9	104.7	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0,	23,	36,	40,	50,	60,	70,	80,	90,	110,	120,	130,	140,	150,	PWL	
	(0)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( ) ( ) ( )	
FREQ. (0,	50	83.4	84.3	82.0	81.2	80.9	80.1	80.3	81.3	80.4	77.4	76.3	80.5	79.3	81.1	129.8
53	78.3	79.2	78.7	83.8	78.3	79.2	74.7	74.8	78.9	73.0	74.0	74.1	77.2	78.0		127.0
60	74.7	76.7	75.3	74.5	73.7	74.0	71.2	74.2	74.5	70.7	70.7	71.6	74.8	74.4		123.0
RADIAL 100, FT.	100	73.2	74.0	72.9	69.8	70.8	69.8	68.6	68.9	69.6	69.2	70.9	71.0	72.9		120.2
( 30, M)	125	72.2	71.4	70.9	70.3	71.2	70.2	68.3	68.0	70.8	70.2	72.0	71.4	75.3		121.0
VEHICLE ATT	160	71.2	76.9	72.9	69.1	73.9	74.2	72.5	72.7	72.5	71.1	72.7	75.2	73.9		123.0
CONFIG T-0	200	85.5	90.5	86.8	75.0	87.0	88.5	89.7	85.8	85.0	84.2	79.3	80.2	83.0		134.8
LOC PTO	250	72.2	74.3	71.9	71.4	72.1	72.1	70.9	69.8	69.9	69.3	71.9	71.9	73.0		121.1
DATE 08/13/74	315	73.2	75.8	75.0	76.9	75.0	79.0	72.8	72.1	70.9	71.2	74.9	74.2	75.2		123.7
NO. 772	400	79.3	82.2	84.5	88.1	87.2	88.1	83.9	82.0	75.9	72.9	75.8	80.2	88.0		133.3
FAF A906	500	76.2	83.9	87.9	88.3	86.8	81.1	79.5	75.4	79.7	76.0	74.7	74.8	77.0		131.9
FAF 26.9 MC	630	80.2	90.0	95.0	95.1	92.2	87.0	85.8	81.1	85.9	82.1	89.1	78.8	88.5		138.5
(97547, N/M2)	800	70.3	84.0	83.9	83.1	81.1	80.2	76.9	77.8	75.8	78.4	77.1	73.2	75.1		129.3
TWIN 82, DEG F	1000	83.6	84.4	94.2	96.4	95.4	94.3	87.1	88.3	87.5	80.3	85.1	78.3	79.5		140.6
(301, DEG K)	1250	91.3	92.1	101.1	101.2	99.5	94.3	89.9	90.1	86.9	85.3	88.1	81.2	82.2		144.6
TWT 71, DEG F	1600	85.7	88.3	91.9	96.5	98.2	92.3	86.9	84.1	81.0	81.2	80.2	77.8	80.4		140.9
(295, DEG K)	2000	88.9	90.3	92.5	93.4	95.3	91.6	86.0	84.3	83.2	80.3	79.2	79.8	79.9		139.3
FACT 15.82 OH/M3	2500	87.6	89.3	92.9	94.2	95.0	90.1	89.7	83.1	82.9	79.5	82.2	81.1	82.5		139.4
(.01582 MG/M3)	3150	88.4	90.8	91.2	95.5	94.4	91.4	89.2	85.1	84.2	80.6	81.5	78.3	80.5		139.7
FAF 11590, RPM	4000	89.3	91.2	92.2	94.3	91.1	90.5	84.7	82.8	79.0	80.1	76.2	78.1	88.3		138.4
(1213, RAD/SEC)	5000	90.8	91.8	92.3	96.4	93.5	88.7	89.3	85.8	82.3	79.7	81.2	79.4	82.5		139.8
FAF 11341, RPM	6300	90.5	90.4	89.5	91.6	91.4	87.0	83.2	80.5	78.4	77.6	79.2	77.9	78.8		137.2
(1167, RAD/SEC)	8000	87.7	89.4	89.0	91.7	90.2	86.4	82.2	81.0	78.2	78.6	78.1	76.3	79.8		137.2
FAF 10629, RPM	10000	89.0	86.3	85.7	89.1	87.2	83.2	81.1	78.0	86.1	78.2	79.8	78.1	78.5		136.2
(1113, RAD/SEC)	12500	83.0	82.3	83.4	87.8	84.8	80.9	79.8	79.8	93.8	81.8	83.7	82.8	83.2		140.0
NO. OF BLADES 44	16000	76.4	77.5	79.1	81.6	80.4	79.7	72.0	70.5	71.3	69.4	71.2	67.3	66.5		131.1
18000	79.2	79.8	73.8	76.9	75.9	73.0	68.6	70.0	80.7	70.1	71.5	69.9	71.0	68.7		132.9
20000																
OVERALL MEASURED	100.3	102.2	104.9	106.3	105.1	102.3	98.9	97.0	98.8	94.2	95.0	94.3	96.2	96.1		191.5
OVERALL CALCULATED	99.8	101.6	105.2	106.7	105.9	102.2	98.5	96.7	98.8	93.0	94.2	92.2	93.6	92.9		
PNOB	112.6	114.5	116.2	116.5	117.6	114.5	111.5	108.6	107.8	104.9	105.7	104.2	105.8	103.8		

↑  
10° OUT

↑  
100° OUT

REPRODUCIBILITY OF THE ORIGINAL PAPER IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)S

	40.	30.	40.	50.	60.	70.	80.	90.	110.	120.	130.	140.	150.	PWL
	(0.39)	(0.92)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
RADIAL 100. FT.	50	84.1	81.9	81.3	80.4	80.1	81.1	80.9	80.1	78.3	78.3	79.2	79.3	81.1
( 30. M)	63	80.9	79.0	84.1	78.9	77.2	74.7	74.9	79.3	74.9	75.0	75.1	77.2	78.8
VEHICLE ATY	90	78.9	77.9	77.6	75.6	76.8	73.4	74.3	74.5	72.5	71.4	71.8	75.8	75.4
CONFIG T=0	100	74.0	72.8	71.0	70.8	69.9	68.6	69.8	70.1	69.3	70.8	71.2	73.0	72.9
LOC PTO	125	71.2	72.2	71.1	71.3	70.1	68.4	69.0	71.3	70.4	72.2	72.2	77.4	76.1
DATE 08/13/74	160	75.6	73.7	68.9	72.9	74.0	74.0	71.8	72.8	71.0	72.7	75.0	73.9	74.9
RUN 773	200	90.1	87.1	71.2	86.3	88.2	86.0	84.8	84.9	81.3	80.2	80.1	83.2	84.0
TAPE A906	250	72.9	71.9	71.4	71.0	72.1	69.8	71.0	70.1	69.3	71.8	72.8	73.4	73.1
BAR 26.9 HG	315	75.4	75.3	77.1	76.1	76.2	74.0	72.8	70.9	71.2	74.9	75.1	74.9	73.8
(97547, N/M2)	400	83.0	86.7	90.3	89.9	90.1	88.7	85.9	78.8	75.2	79.2	82.1	82.0	79.1
TAIR 82, DEG F	500	83.8	88.7	88.1	86.0	79.9	77.9	74.5	78.6	76.0	75.8	74.9	76.9	78.1
(301, DEG K)	630	91.3	95.0	95.1	93.0	87.2	83.7	78.8	84.7	82.1	80.9	78.0	81.4	83.0
THET 71, DEG F	800	82.3	83.8	83.4	81.1	81.1	78.1	77.0	75.5	78.3	77.0	74.1	79.2	76.1
(295, DEG K)	1000	87.2	94.9	96.4	95.1	95.3	89.0	88.2	87.9	79.5	84.3	77.4	79.7	78.1
MACT 15.92 GH/M3	1250	92.1	101.2	100.1	96.4	95.1	88.0	89.0	87.1	83.2	84.2	79.1	82.3	77.2
(.01582 KG/M3)	1600	89.7	92.2	95.5	98.2	93.2	86.0	83.2	82.1	80.7	80.5	79.2	80.3	80.8
NFA11584, RPM	2000	90.7	98.2	93.3	94.6	91.6	88.2	89.1	81.1	81.6	79.1	79.7	79.8	79.1
(1213, RAD/SEC)	2500	89.5	92.1	97.1	95.2	90.1	87.9	82.9	83.0	81.3	81.2	81.0	81.1	77.1
NFK11336, RPM	3150	91.9	92.3	96.1	94.3	91.6	88.1	89.6	80.1	79.9	80.4	78.4	80.4	76.0
(1187, RAD/SEC)	4000	90.5	92.0	94.3	91.3	89.1	84.7	83.9	79.0	79.6	78.2	77.5	80.5	78.9
NFD10620, RPM	5000	91.8	93.5	96.3	95.3	88.4	85.0	85.1	81.3	79.6	81.3	79.5	82.8	76.0
(1113, RAD/SEC)	6000	89.4	89.3	91.4	91.7	87.5	83.2	80.5	78.4	77.9	79.2	77.8	78.6	76.2
NO. OF BLADES 44	8000	87.2	89.0	91.7	90.6	85.2	82.9	82.4	78.2	78.5	78.1	76.3	79.3	75.0
	12500	85.2	88.0	89.4	87.0	83.2	80.8	78.0	86.9	78.3	79.3	78.1	78.2	75.7
	16000	82.0	83.9	86.8	84.9	80.9	79.4	79.5	93.5	82.0	83.7	83.9	82.8	80.7
	20000	77.3	78.4	81.5	79.6	75.3	72.0	70.4	72.2	69.8	70.2	68.4	69.7	65.1
OVERALL MEASURED		72.9	73.5	77.0	76.2	72.2	68.7	69.9	81.0	71.0	71.0	71.9	71.0	68.7
OVERALL CALCULATED		101.5	105.1	106.2	106.2	102.3	93.5	97.0	99.1	94.0	93.0	94.2	96.4	96.0
PND8		101.6	105.3	106.7	105.8	102.6	94.2	96.7	97.8	92.9	93.6	92.3	93.7	92.5
		114.6	116.4	118.9	117.7	114.6	111.8	108.9	106.7	104.8	105.2	104.2	106.0	103.7

↑  
100 dB

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 6 HR. 17.2

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	PNL	
FREQ.	(0.)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
50	82.5	83.9	81.1	81.6	80.2	78.9	80.3	81.2	79.2	78.1	77.6	78.5	79.1	78.6	80.6	129.6	
63	77.8	78.3	77.2	83.8	79.0	75.8	73.2	74.9	77.5	82.2	73.1	76.6	75.1	77.8	81.2	128.3	
RADIAL 100. FT. (30. M)	80	74.6	75.7	72.9	74.4	73.7	72.6	71.9	73.6	73.1	71.8	69.7	71.9	71.7	74.3	75.7	122.8
VEHICLE ATT	125	72.0	71.3	70.9	71.0	71.6	70.0	70.4	69.2	71.6	71.4	70.4	73.5	72.2	76.3	74.3	121.8
CONFIG 9-M IN	160	73.9	76.0	71.0	69.7	73.0	74.6	69.3	75.2	68.3	71.1	72.1	73.1	75.5	72.8	75.7	122.0
LOC PTD	200	84.1	87.3	81.2	76.9	83.5	85.2	78.2	85.5	74.3	79.6	81.1	80.8	79.5	73.2	82.0	131.8
DATE 88/13/74	250	73.0	74.4	73.1	73.8	73.4	71.9	78.1	78.3	69.1	69.4	69.2	72.4	72.1	73.0	73.9	121.6
RUN 774	315	75.9	77.3	81.3	85.9	87.1	84.8	81.2	83.3	77.2	73.1	74.7	77.5	78.1	79.2	73.7	131.7
TAPE 55178	400	84.7	86.0	92.2	97.1	99.3	96.7	93.0	94.9	89.1	83.3	84.8	84.3	87.7	89.6	76.8	143.3
BAR 28.9 HG	500	83.4	92.9	95.9	97.8	95.2	85.9	90.2	84.0	82.9	78.0	79.8	80.3	77.9	85.6	86.7	148.4
(97547. N/M2)	630	85.8	93.6	96.5	99.3	96.4	87.3	91.5	85.2	83.7	79.0	81.1	81.6	78.7	87.0	88.1	141.7
TAMB 70. DEG F	800	83.6	90.2	90.3	89.9	91.2	88.1	86.1	81.4	80.4	77.2	76.1	85.7	80.2	82.9		136.3
(294. DEG K)	1000	87.3	91.5	98.3	98.1	100.0	98.0	92.6	91.2	87.4	83.3	83.5	90.8	86.4	86.0	82.1	144.3
TMT 71. DEG F	1250	88.8	96.1	94.0	97.8	95.1	93.8	88.3	88.0	83.4	80.5	79.2	82.3	84.5	79.9	81.9	141.2
(295. DEG K)	1600	84.8	90.6	93.2	93.2	99.6	97.1	94.5	87.1	83.3	84.3	78.8	87.5	82.3	81.1	84.3	142.9
MACT 19.34 G/M3	2000	89.8	93.5	93.3	97.3	94.6	93.3	90.5	86.6	82.4	82.6	80.2	81.6	82.4	80.3	82.1	140.9
(.01934 KG/M3)	2500	87.7	90.2	92.2	92.8	95.3	91.9	88.0	83.2	79.4	78.4	76.9	81.3	80.1	80.1	79.9	139.2
NFA11260. RPM	3150	89.8	91.7	92.3	93.9	94.7	90.1	90.5	88.3	82.7	79.5	80.2	80.9	78.4	80.1	77.4	139.7
(1179. RAD/SEC)	4000	90.9	92.2	91.3	94.8	93.1	91.8	87.2	84.0	78.5	78.2	80.0	78.6	77.2	80.8	78.9	139.2
NFK11142. RPM	5000	90.9	91.6	92.2	96.3	96.3	96.2	86.2	85.2	81.4	79.7	79.2	80.8	79.4	81.0	75.3	140.6
(1167. RAD/SEC)	6300	90.3	90.5	88.6	92.1	91.6	89.4	84.3	81.1	78.5	77.7	77.3	79.7	77.5	78.0	75.4	137.6
NFD10428. RPM	8000	87.8	88.4	89.1	92.8	90.5	86.0	83.8	82.2	77.5	77.2	77.9	77.4	76.2	77.9	75.1	137.3
(1113. RAD/SEC)	10000	85.8	86.0	85.8	89.6	88.9	84.6	81.8	79.1	89.2	92.9	78.5	80.4	80.8	79.6	77.6	139.6
NO. OF BLADES 44	12500	81.7	82.2	83.8	87.1	85.1	80.8	78.2	77.4	89.3	94.3	79.0	80.6	79.3	79.3	77.1	140.6
16000	78.2	76.8	78.8	82.5	80.8	75.4	72.4	69.4	69.6	78.9	69.4	68.8	65.8	67.6	63.6	131.3	
20000	74.1	72.8	73.7	78.3	76.7	73.2	69.4	69.4	81.6	85.9	71.6	72.8	72.6	72.1	72.1	136.9	
OVERALL MEASURED	100.8	104.5	105.8	107.7	107.1	104.1	102.1	100.2	98.5	100.4	93.9	97.3	96.4	96.8	97.1		
OVERALL CALCULATED	100.1	103.7	105.3	107.6	107.8	104.7	101.8	99.8	97.2	98.5	93.9	96.3	94.6	95.7	94.9		
PNDB	113.5	116.0	116.5	119.2	119.2	115.9	113.7	111.3	107.2	107.3	104.8	107.2	105.2	106.1	105.2	153.1	

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET [IN DEGREES (AND RADIAN)]

	0,	20,	30,	40,	50,	60,	70,	80,	90,	110,	120,	130,	140,	150,	PHL	
FREQ. (0, )	(0,35)	(0,52)	(0,70)	(0,97)	(1,05)	(1,22)	(1,40)	(1,57)	(1,92)	(2,09)	(2,27)	(2,44)	(2,62)			
	50	76.1	76.6	76.6	77.0	74.9	74.0	72.8	73.3	72.9	72.2	71.8	73.2	73.2	73.0	123.3
	63	75.2	75.1	73.8	84.2	77.3	74.2	71.0	72.4	77.2	71.5	71.4	71.4	72.4	70.0	125.4
RADIAL 100, FT. (30, M)	80	74.6	73.4	73.5	74.1	72.9	72.6	70.9	70.1	70.8	72.0	70.6	70.9	69.9	69.6	121.1
VEHICLE ATT	125	71.2	69.1	71.0	70.6	69.6	67.1	66.5	65.6	64.3	66.7	68.4	66.2	69.3	67.2	120.8
CONFIG T=0	166	66.1	67.8	68.9	66.1	65.4	62.4	63.8	62.5	60.0	63.3	65.0	64.0	63.0	62.9	117.6
LOC PTO	200	74.0	73.0	71.0	71.2	70.1	68.3	69.0	65.3	63.3	62.3	64.4	65.1	64.3	62.9	113.9
DATE 07/10/74	250	81.3	80.7	80.0	79.1	77.3	77.3	73.9	71.4	69.0	66.4	66.9	67.4	70.0	67.3	116.9
RUM 775	315	83.2	82.7	81.8	80.1	77.3	74.2	72.2	70.4	69.2	66.2	69.3	68.0	70.3	68.2	124.3
TAPL A939	400	81.3	81.0	81.1	80.4	77.3	74.0	72.2	72.2	71.2	66.4	70.0	69.1	72.4	69.2	124.9
GAR 28.9 HG	500	77.0	77.5	76.9	75.2	73.0	69.8	69.1	67.1	66.0	64.9	67.9	69.2	69.8	67.1	120.9
(97567, N/M2)	630	83.2	84.0	83.0	81.3	77.6	73.3	71.6	72.5	69.4	69.7	70.9	69.3	71.4	67.4	126.2
TAPR 82, DEG F	806	81.2	82.0	83.0	82.2	80.1	72.2	74.3	73.5	72.3	74.2	71.1	70.3	69.5	69.0	126.8
(301, DEG K)	1000	83.1	82.1	83.1	82.3	81.4	77.3	74.1	73.8	72.4	72.6	74.4	72.6	71.4	71.5	128.0
THET 71, DEG F	1250	84.2	87.9	85.2	84.4	84.0	81.1	77.4	77.6	74.3	78.3	79.1	76.4	74.0	79.1	130.9
(295, DEG K)	1600	83.4	86.1	85.0	84.5	85.2	81.3	77.5	75.3	73.2	72.6	73.1	71.3	72.5	68.4	130.3
MACT 15.82 GM/M3	2000	80.3	87.1	82.5	86.7	86.4	82.3	77.7	78.5	72.8	73.3	73.5	71.6	72.6	70.3	132.1
(.01592 KG/M3)	2500	84.3	89.1	90.0	90.4	89.4	83.0	80.3	78.3	75.2	74.0	75.0	73.1	74.2	71.2	134.7
NFA 7534, RPM	3150	92.3	93.3	92.3	92.5	91.7	83.4	83.4	79.6	76.8	74.6	75.5	73.4	74.3	71.3	137.4
(789, RAD/SEC)	4000	93.2	94.0	95.1	93.7	91.4	90.4	85.5	81.8	77.4	76.6	74.3	72.3	74.6	73.5	138.9
NFK 7372, RPM	5000	93.3	93.3	96.2	97.5	97.6	91.3	83.6	82.6	79.8	76.8	79.4	76.7	77.4	72.5	142.0
(772, RAD/SEC)	6300	93.3	94.2	93.4	94.4	94.2	91.3	82.8	79.8	76.6	74.4	76.5	74.6	74.7	72.2	140.0
NFD 10620, RPM	8000	94.2	94.3	94.2	95.4	92.3	86.7	81.3	78.5	81.5	74.6	74.0	74.5	79.2	72.2	140.2
(1113, RAD/SEC)	10000	93.1	93.0	93.1	93.3	91.5	86.1	79.4	75.5	73.5	71.4	72.1	70.4	71.4	78.0	139.6
NO. OF BLADES 44	12500	84.8	88.3	90.4	89.8	88.9	84.3	75.5	71.8	72.0	67.7	68.4	66.6	67.8	65.7	137.5
	10000	82.4	86.0	87.4	87.6	85.7	81.3	72.3	69.8	81.6	71.5	72.3	71.5	71.8	69.7	137.3
	20000	81.7	80.0	81.7	81.8	81.1	72.4	66.8	65.2	73.2	64.1	65.7	63.8	65.8	64.9	134.3
OVERALL MEASURED		103.0	102.8	102.9	104.1	103.1	99.2	93.0	91.3	91.3	88.5	89.2	88.1	90.1	89.0	
OVERALL CALCULATED		104.8	103.1	103.3	103.6	102.6	98.7	92.8	90.3	89.5	87.0	87.6	86.1	86.6	84.6	149.2
PNOB		110.2	110.1	116.4	116.9	116.3	111.7	109.6	103.9	101.5	99.7	100.8	98.9	99.6	97.1	

MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANs)

	0.	20.	30.	40.	50.	60.	70.	80.	90.	110.	120.	130.	140.	150.	PHL	
	(0.)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	( )	
FREQ. (0.)	50	72.0	72.7	73.8	71.2	69.7	69.1	70.0	69.9	67.9	69.0	69.6	70.2	70.0	119.9	
	63	72.3	71.0	69.9	83.2	76.1	71.0	69.0	69.4	77.4	67.4	67.0	68.3	69.4	66.0	123.9
RADIAL 100. FT.	80	69.5	68.7	68.5	68.8	67.8	67.4	65.6	65.7	64.9	66.0	65.5	65.9	66.0	64.6	116.0
( 30. M)	100	72.9	70.8	69.9	71.0	69.2	67.4	70.1	72.0	69.1	65.1	67.7	70.2	68.1	70.6	119.0
VEHICLE ATT	125	67.9	65.2	67.3	65.6	63.3	62.2	62.3	61.6	60.4	61.3	62.4	60.2	63.3	61.2	112.4
CONFIG T=0	150	65.9	64.7	63.6	65.1	62.0	62.4	60.9	59.3	57.9	60.0	61.0	61.2	60.1	59.9	111.1
LOC PTO	200	71.9	71.1	69.1	70.2	68.1	65.9	64.1	63.1	63.2	60.1	61.9	63.3	62.4	60.3	115.2
DATE 07/16/74	250	78.3	78.2	76.9	76.2	74.1	71.9	70.1	68.0	65.2	63.4	63.4	64.2	66.1	64.9	121.0
RUN 776	315	81.0	81.0	80.0	78.3	75.0	73.0	71.0	68.2	67.0	65.1	65.9	64.3	67.3	66.2	123.1
TAPE A939	400	77.4	77.0	76.8	76.1	72.5	70.0	68.0	66.1	64.2	63.1	64.9	64.0	65.4	64.3	120.2
BAR 28.9 HG	500	75.7	76.3	74.5	73.1	71.0	67.9	64.8	64.2	62.6	62.9	64.0	65.0	65.9	64.1	118.6
( 7547. N/M2)	630	81.2	81.1	80.1	79.3	75.5	73.4	70.2	68.6	68.5	65.3	68.4	67.5	68.2	66.9	123.7
TAMB 67. DEG F	800	79.1	79.0	78.0	76.2	73.4	71.1	67.2	66.1	66.0	64.2	65.3	64.3	65.2	63.4	121.3
(301. DEG K)	1000	81.7	81.2	80.3	77.4	76.6	72.2	68.7	67.3	66.2	66.3	66.9	64.6	65.4	63.4	123.3
TWET 71. DEG F	1250	82.1	82.2	82.1	80.6	79.4	74.0	70.0	68.4	67.3	67.3	68.3	67.4	67.1	65.4	125.4
(295. DEG K)	1500	82.2	83.0	83.2	81.4	80.5	75.4	71.3	68.5	67.3	66.5	67.1	66.1	66.2	64.3	126.4
MACT 15.82 GN/M3	2000	84.7	84.1	84.6	83.4	81.6	77.6	73.8	70.4	68.6	67.4	68.5	66.6	67.7	65.6	128.0
( 0.0582 KG/M3)	2500	90.0	91.1	92.3	89.5	89.3	84.4	78.2	75.3	73.0	71.1	73.0	71.2	71.1	67.3	135.0
NFA 5003. RPM	3150	92.9	92.2	93.2	89.6	89.6	83.6	78.5	75.5	73.2	70.3	73.1	70.4	71.4	68.4	136.1
( 608. RAD/SEC)	4000	92.4	92.0	92.4	92.8	91.4	87.5	81.3	77.2	73.4	74.5	73.0	70.5	74.5	72.5	137.2
NFK 5678. RPM	5000	88.3	89.2	90.4	90.6	90.6	82.3	76.5	75.6	72.5	69.7	71.5	69.6	70.7	66.5	135.2
( 595. RAD/SEC)	6300	91.2	91.1	90.4	90.7	89.6	80.4	74.4	71.4	73.4	70.3	69.3	68.5	71.6	67.5	136.6
NFD 10628. RPM	8000	89.4	89.8	89.3	89.5	88.2	83.2	79.0	72.1	72.0	67.2	67.0	67.2	68.2	66.4	135.8
(1113. RAD/SEC)	10000	84.0	84.3	86.4	86.9	86.0	81.7	71.7	69.8	75.6	67.6	67.7	67.5	67.9	65.5	134.4
NO. OF BLADES 44	12500	81.4	81.3	83.4	84.6	81.8	77.4	67.6	65.7	73.6	65.7	66.3	66.4	65.8	64.7	133.3
	15000	77.1	73.7	78.0	79.1	77.0	71.0	62.7	63.1	70.0	64.9	65.7	65.9	63.1	64.8	130.8
OVERALL MEASURED		99.9	100.1	100.0	100.4	98.9	94.3	88.4	87.6	87.0	84.4	85.0	85.5	86.3	85.2	
OVERALL CALCULATED		100.0	100.4	100.6	100.1	99.1	94.3	88.1	85.6	85.2	82.0	82.8	81.6	82.9	81.0	145.7
PNDB		113.6	114.3	114.1	113.5	112.2	107.9	102.3	99.1	96.6	95.9	95.9	94.1	96.4	94.3	

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 9 DAY 9 HR. 20.4

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	0	20	30	40	50	60	70	80	90	110	120	130	140	150	PHL
	(0)	(0.35)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	
	50	75.0	76.0	75.7	77.0	75.1	75.0	73.2	72.9	71.2	71.9	73.0	73.2	73.0	123.2
	63	77.0	75.0	74.0	84.5	77.4	79.0	71.0	72.3	77.4	72.1	71.2	71.1	73.4	129.6
RADIAL 100. FT.	80	74.9	73.6	73.5	73.9	73.1	71.9	70.6	69.8	69.7	71.7	70.7	70.9	70.0	120.9
(30. M)	100	79.1	73.7	72.6	74.4	72.2	71.0	69.9	69.2	68.9	67.2	69.2	70.9	70.1	120.3
VEHICLE ATT	125	74.4	70.0	70.9	70.6	69.6	68.2	68.6	66.6	66.2	66.0	67.5	68.2	68.6	117.6
LDNFIG T=0	160	76.9	70.7	66.9	67.3	66.3	65.7	64.1	62.1	60.4	63.1	65.1	64.1	64.2	114.0
LOC PT0	200	76.2	74.0	71.9	71.3	70.4	68.1	68.2	64.3	63.2	61.2	63.1	64.1	64.3	117.0
DATE 07/16/74	250	81.9	80.7	76.9	79.4	77.1	72.9	72.1	71.2	70.1	67.1	69.1	67.3	69.1	124.2
NO. 777	315	85.9	82.1	80.9	80.2	76.3	73.8	71.1	70.2	69.0	66.2	69.3	67.3	68.3	124.4
TAPE A939	400	81.0	81.7	81.8	81.5	76.3	74.9	71.0	72.1	72.0	68.1	73.2	72.2	70.3	125.4
SAR 26.9 HG	500	70.8	78.6	77.6	75.2	74.2	69.9	68.8	68.1	69.1	67.0	68.6	69.1	69.1	121.6
(97547. N/M2)	630	84.4	84.2	83.0	80.5	76.5	75.5	72.5	71.6	69.5	70.7	70.7	70.4	70.5	126.0
TANK 82. DEG F	800	82.2	81.9	81.9	81.4	78.4	75.2	74.3	72.4	72.1	74.0	71.1	70.1	69.4	126.1
(301. DEG K)	1000	83.4	83.9	83.2	81.7	81.5	77.4	75.2	74.6	73.4	77.3	74.1	74.4	71.6	128.1
WET 71. DEG F	1250	82.2	87.8	85.9	83.3	83.4	80.1	76.4	78.2	76.0	80.9	78.4	78.4	74.2	130.9
(295. DEG K)	1600	82.4	85.2	85.0	83.6	83.3	79.4	74.3	73.3	72.1	72.4	73.2	71.1	71.3	129.1
MACT15.92 GM/M3	2000	87.2	87.0	88.1	86.6	85.5	82.5	77.6	75.7	73.1	72.9	73.4	71.7	73.4	131.7
(.01592 KG/M3)	2500	82.1	89.1	90.2	90.4	89.2	85.1	80.2	78.2	75.3	73.5	74.9	73.4	73.4	134.7
NFA 7544. RPM	3100	91.0	93.4	92.1	92.6	92.4	87.7	83.6	78.7	76.5	73.9	76.2	73.3	72.9	137.6
(790. RAD/SEC)	4000	94.1	94.2	94.9	94.5	91.4	90.3	84.5	81.5	76.1	77.5	75.2	71.6	74.1	139.1
NFA 7382. RPM	5000	93.6	95.1	96.1	97.9	96.7	91.3	85.5	82.7	80.3	76.7	79.3	76.8	77.5	141.9
(773. RAD/SEC)	6300	94.9	94.2	93.3	95.5	93.8	89.2	85.2	79.7	77.6	74.4	77.5	74.6	74.3	140.2
NFD10625. RPM	8000	93.5	93.3	94.0	94.8	92.5	87.2	81.1	78.3	80.5	74.2	74.1	74.3	75.7	139.9
(1113. RAD/SEC)	10000	92.4	92.2	93.2	93.3	91.5	87.4	79.1	75.4	72.2	71.2	72.0	70.3	71.5	139.4
NO. OF BLAOPS 4	12500	81.7	83.5	90.5	99.8	89.0	84.7	74.5	71.8	71.6	67.8	67.8	66.6	67.7	137.6
	16000	85.5	86.1	87.5	87.6	85.7	81.4	72.3	70.6	80.7	78.6	71.3	71.6	71.6	137.3
	20000	84.0	85.5	82.5	82.1	83.1	75.8	66.7	66.8	73.0	66.0	64.7	64.0	65.1	134.3
OVERALL MEASURED		102.2	102.7	103.1	103.5	102.4	99.0	92.3	91.6	91.3	89.2	89.3	88.2	89.4	
OVERALL CALCULATED		102.7	102.9	103.2	103.9	102.2	98.7	92.1	90.0	89.2	87.6	87.6	86.5	86.3	149.1
PNOB		119.0	110.0	116.3	117.2	115.7	111.6	109.9	103.6	101.6	106.2	100.9	99.1	99.4	

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SECTION IV

ONE-THIRD OCTAVE DATA - FRONT DRIVE

MISSING FRONT ELEMENT NOT FILMED

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PHL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	79.6	80.1	80.3	81.0	82.1	82.6	83.1	84.3	85.3	86.6	88.6	90.8	95.8	99.8				138.6
63	79.3	80.8	81.3	81.8	86.5	83.3	86.0	85.0	86.0	86.5	88.8	92.0	96.5	100.3				139.4
RADIAL 100. FT. (36. M)	80	78.1	79.4	80.6	80.9	81.4	83.1	83.9	85.4	86.4	87.9	89.6	92.9	95.9				138.8
VEHICLE PPG CONFIG NC-062	100	79.1	79.1	81.4	81.4	82.1	83.6	83.6	84.5	85.6	86.9	88.9	91.4	93.9				137.0
LCC ATT FAN	125	79.2	79.2	80.0	81.0	81.5	82.2	83.0	83.5	84.5	85.7	88.0	89.5	91.5				135.4
DATE 66-18-75	160	79.4	82.7	80.4	81.2	81.4	82.7	84.4	83.7	87.7	87.9	89.7	90.9	93.9				137.4
RUN 640	200	78.5	79.8	81.0	81.5	82.0	84.0	84.8	86.5	88.0	90.5	93.5	95.8	99.0				140.7
TAPE A721	250	83.3	84.0	86.3	87.2	86.8	88.5	89.0	90.5	92.5	94.5	96.8	99.0	100.5				143.6
BAR 29.0 HG (98036. N/M2)	315	86.8	87.3	88.5	90.5	91.5	91.5	91.5	93.0	91.5	96.0	98.3	99.3	99.3				144.4
TAMB 84. DEG F (302. DEG K)	400	86.9	87.2	87.9	90.2	90.7	90.2	90.4	91.9	91.2	93.2	95.4	95.9	94.9				142.2
TWET 77. DEG F (298. DEG K)	500	85.1	85.0	86.3	88.3	89.6	87.3	87.8	89.6	94.3	91.6	95.1	97.1	96.3				142.1
FACT 0. GH/M3 (. KG/M3)	630	86.7	88.2	89.0	93.2	93.5	94.0	94.7	95.3	93.2	95.0	96.7	97.7	97.0				144.6
NFA 10117. RPM (1659. RAD/SEC)	800	86.3	87.5	89.3	89.8	90.5	92.1	91.5	92.1	94.5	95.6	96.8	95.3	95.3				143.3
NFK 9882. RPM (1635. RAD/SEC)	1000	86.9	87.5	89.1	91.2	92.1	92.0	93.6	93.5	95.6	96.6	97.4	95.2	94.9				144.1
NFD 14628. RPM (1113. RAD/SEC)	1250	87.3	88.3	92.5	93.8	94.5	94.1	95.3	96.4	93.0	96.9	98.3	96.0	94.8				145.2
AC. OF BLADES 44	1600	85.6	86.4	87.4	90.9	89.8	91.8	90.9	91.4	90.5	94.8	95.5	94.0	92.5				142.3
FAN TIP SPEED FT/SEC	2000	84.1	84.8	85.6	88.8	88.6	89.2	88.8	90.9	90.6	93.6	95.9	92.5	96.6				141.3
OVERALL MEASURED	2500	80.3	83.3	85.3	87.7	87.9	86.2	87.4	88.4	89.4	92.4	95.1	91.2	90.4				140.2
OVERALL CALCULATED	3150	78.2	82.8	82.4	85.2	85.6	86.0	85.4	88.2	89.1	92.6	93.1	92.4	89.9				139.5
PNDB	4000	80.2	79.0	82.5	86.1	87.5	85.9	86.2	89.1	87.9	89.3	92.7	90.9	88.4				139.0
	5000	78.7	82.3	82.4	85.1	84.8	84.4	85.8	87.1	90.1	91.5	89.8	90.6	87.3				138.6
	6300	76.7	80.4	79.3	82.9	84.4	86.4	84.8	88.5	90.4	90.6	91.4	90.9	87.7				139.2
	8000	76.8	79.0	79.6	83.6	84.0	86.1	86.6	89.2	89.9	93.2	92.5	90.9	86.4				140.5
	10000	74.8	79.2	77.3	82.1	83.0	86.6	85.5	88.7	89.6	90.0	91.1	91.1	85.9				140.3
	12500	73.7	76.8	76.3	80.2	82.3	86.7	85.8	88.4	90.0	91.2	90.9	90.3	84.5				141.5
	16000	71.5	74.8	73.7	79.1	81.4	86.1	85.3	89.1	85.3	90.9	89.6	91.1	82.3				142.6
	20000	68.4	72.1	71.1	76.7	77.7	82.2	81.1	85.4	79.8	87.8	85.9	89.0	78.4				141.9

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL		
	30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)		0. (0.)	0. (0.)
50	82.6	81.3	82.1	83.1	83.8	85.1	84.8	86.6	87.6	89.1	90.8	94.1	99.1	102.6				141.4
63	82.3	83.0	83.5	84.5	87.5	86.0	87.8	88.3	89.0	90.3	92.0	95.0	100.5	104.3				143.0
RADIAL 100. FT. (30. M)	80	80.6	82.1	83.1	83.6	83.1	85.9	86.9	87.9	89.4	90.4	92.6	96.1	99.9	102.9			142.4
VEHICLE PPG	100	81.9	82.6	84.1	84.4	84.9	86.4	87.1	87.4	89.1	89.9	91.9	94.9	97.4	98.4			140.4
CONFIG NC-062	125	81.7	82.2	83.0	84.2	84.5	85.5	85.5	86.5	87.5	89.0	91.0	92.7	94.7	96.0			138.7
LOC ATT FAN	160	82.7	80.7	83.2	84.7	83.7	84.9	85.4	85.9	89.7	90.2	92.7	94.9	97.9	99.7			140.8
DATE 06-18-75	200	83.5	82.8	85.5	86.3	85.3	87.3	88.0	89.5	93.3	94.3	97.3	100.3	103.0	101.3			144.8
RUN 41	250	86.5	87.0	89.3	89.5	89.5	91.0	92.0	93.0	94.8	97.0	100.3	103.0	103.8	101.2			146.9
TAPE S3440	315	90.0	90.3	91.5	93.3	93.8	94.0	94.5	95.5	97.0	98.5	101.0	102.8	102.5	100.8			147.6
BAR 29.0 HG	400	89.7	90.9	91.2	94.2	94.9	94.4	94.9	96.2	95.7	96.4	98.4	98.9	98.2	97.7			145.8
(98030. N/M2)	500	88.1	88.8	90.3	92.3	89.8	91.8	91.1	93.3	93.8	94.9	96.6	100.3	99.8	97.6			145.0
TAMB 84. DEG F	630	89.5	91.0	91.5	93.2	94.0	94.3	94.5	95.8	97.0	98.0	99.5	100.5	99.5	97.2			146.3
(302. DEG K)	800	89.8	91.5	91.8	93.3	94.8	94.6	94.5	94.8	95.8	97.6	99.0	98.5	98.3	96.0			145.9
THET 77. DEG F	1000	90.4	91.0	92.1	94.5	94.1	94.3	95.9	96.3	97.4	98.8	99.9	98.5	97.6	95.5			146.6
(298. DEG K)	1250	90.3	91.8	91.3	95.6	94.5	97.1	96.3	97.1	98.8	98.9	100.5	98.8	98.0	95.1			147.4
HACT 3. GM/M3	1600	88.9	89.9	90.2	93.4	92.8	93.3	93.9	94.5	96.5	98.3	98.0	97.1	95.5	92.4			145.4
(. KG/M3)	2000	87.8	88.1	88.8	92.0	91.6	92.4	91.8	93.9	94.4	96.6	97.6	95.5	94.1	91.5			144.2
NFA 10955. RPM	2500	83.8	87.0	88.3	91.2	91.2	89.4	91.1	91.6	93.9	95.4	97.9	93.9	93.4	90.4			143.3
(1147. RAD/SEC)	3150	81.7	86.3	85.9	88.7	88.9	89.7	88.9	91.4	92.9	95.6	96.9	93.2	92.4	88.2			142.8
NFK 10700. RPM	4000	83.5	83.3	85.7	89.9	92.7	89.7	90.2	92.1	92.2	92.6	95.4	94.1	91.2	88.9			142.3
(1120. RAD/SEC)	5000	82.7	85.1	85.6	88.6	87.8	87.7	89.0	90.6	91.8	94.5	92.5	92.8	90.1	87.3			141.5
NFD 10628. RPM	6300	79.7	83.7	82.5	86.1	87.1	89.4	88.3	91.0	92.2	92.1	93.6	93.6	90.2	85.9			141.6
(1113. RAD/SEC)	8000	80.0	82.2	82.6	86.9	87.0	89.4	90.1	92.5	93.1	95.2	94.5	93.2	89.2	86.4			143.2
NO. OF BLADES 44	10000	78.3	82.0	80.0	85.1	85.7	89.1	88.5	90.7	92.1	92.0	93.1	93.6	88.9	85.1			142.7
FAN TIP SPEED 16000	12500	77.7	79.3	79.3	82.5	84.8	89.2	88.6	90.4	91.3	92.5	92.4	92.6	86.8	83.8			143.3
FT/SEC 20000	16000	75.3	78.1	76.7	81.6	82.7	88.6	87.3	87.9	90.5	92.1	90.1	92.6	84.5	83.3			144.6
OVERALL MEASURED	20000	71.4	75.4	74.1	78.9	79.4	84.4	82.9	87.4	86.3	89.3	87.4	90.5	81.7	81.4			144.0
OVERALL CALCULATED		100.3	101.5	102.1	104.6	104.7	105.6	105.7	107.0	104.2	109.5	111.1	111.7	112.2	112.0			158.7
PND8		110.9	112.4	113.1	115.9	116.1	116.3	116.6	116.2	119.3	121.1	122.5	121.9	120.6	116.6			

SPL INPUT AT STD

	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
FREQ.	(0.52)	(0.73)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0. )
	ANGLES FROM INLET IN DEGREES (AND RADIANS)														
50	82.3	82.1	82.8	84.1	84.6	85.3	85.8	87.3	88.3	89.8	92.1	95.3	100.8	104.8	143.1
63	81.5	83.8	83.3	85.0	87.0	86.0	88.0	88.3	89.5	90.3	92.5	97.0	101.8	105.8	144.2
RADIAL 100. FT. (30.4)	80	81.4	83.1	83.9	84.6	84.6	86.9	87.1	88.6	90.1	91.1	93.4	97.4	101.1	143.6
100	82.9	83.1	84.9	84.9	85.4	87.1	87.1	87.9	89.1	90.4	92.6	96.4	98.9	99.6	143.5
VEHICLE PPG	125	82.7	83.2	83.7	84.7	85.2	85.7	86.2	88.2	89.2	92.6	94.0	95.7	97.2	139.6
CONFIG NC-062	160	82.9	81.9	82.9	84.9	83.9	85.4	85.9	86.9	88.2	90.4	92.9	95.7	98.7	141.4
LOC ATT FAN	200	84.3	84.5	87.3	88.0	86.3	89.8	91.3	92.0	93.0	94.8	99.3	101.8	104.5	146.3
DATE 06-18-75	250	87.5	88.0	90.3	90.7	90.5	92.0	93.0	94.0	96.3	98.7	101.8	104.5	104.8	148.2
RUN 42	315	91.3	91.8	93.0	94.1	93.5	95.3	95.5	96.3	98.0	99.8	102.5	104.1	104.3	148.8
TAPE S3440	400	90.9	92.7	93.2	97.7	96.7	97.7	100.9	99.9	98.4	99.2	99.7	100.2	99.7	148.6
BAR 29.0 HG	500	88.3	90.1	90.1	90.8	90.6	90.8	92.1	93.3	95.1	96.1	99.8	101.6	101.1	145.9
(70030. N/H2)	630	91.0	92.7	92.2	94.5	94.5	95.0	95.7	96.8	98.2	99.5	101.5	102.5	101.2	148.0
TAMB 84. DEG F	800	91.8	93.8	94.0	94.8	96.3	95.8	95.8	97.1	97.5	99.1	100.6	100.0	100.5	147.6
(302. DEG K)	1000	91.9	92.5	92.1	95.2	95.6	95.5	96.4	97.0	98.1	100.3	101.6	100.2	99.6	147.9
TWET 73. DEG F	1250	91.8	93.8	93.5	97.3	95.7	96.4	98.3	98.6	100.3	101.4	101.8	101.5	100.0	149.1
(298. DEG K)	1600	90.6	91.9	92.1	95.4	94.8	95.8	95.9	96.0	98.0	99.8	100.0	98.9	97.5	147.7
FACT 0. GM/H3	2000	98.8	89.6	90.8	93.5	92.9	93.7	94.1	95.6	96.1	97.9	99.4	97.4	95.4	145.3
(. KG/H3)	2500	85.8	89.0	90.0	92.7	92.9	91.7	93.1	94.4	96.4	97.9	99.4	95.7	95.4	145.4
NFA 11644. RPM	3150	83.2	87.6	87.4	90.5	90.6	91.7	90.6	93.7	95.4	97.6	97.6	96.7	94.4	144.5
(1219. RAD/SEC)	4000	84.7	85.1	87.2	91.9	92.5	91.4	91.7	94.1	94.7	93.8	97.2	95.4	92.7	144.0
NFK 11373. RPM	5000	83.7	87.3	87.1	89.8	89.6	89.4	91.8	92.4	93.6	96.8	93.8	94.6	91.6	143.2
(1191. RAD/SEC)	6300	81.7	85.2	84.0	88.4	88.0	91.6	89.5	92.8	93.7	93.1	94.9	95.1	91.7	143.1
NFD 10628. RPM	8000	81.5	83.5	84.1	88.6	86.7	91.1	91.9	94.0	94.4	96.0	95.0	94.7	90.4	144.4
(1113. RAD/SEC)	10000	80.1	84.0	82.0	86.9	87.2	91.9	90.8	93.0	94.4	94.0	94.0	94.9	90.4	144.5
NO. OF BLADES 44	12500	79.0	81.1	81.1	85.2	85.6	91.7	90.1	92.7	93.5	94.0	93.7	94.1	88.3	145.1
FAN TIP SPEED	16000	77.0	80.1	79.0	84.1	85.7	91.1	89.0	92.9	92.5	93.6	92.6	94.1	86.0	146.5
FT/SEC	20000	73.1	76.6	76.4	80.9	82.2	86.4	80.4	89.6	88.3	91.0	89.4	91.8	83.4	145.7
OVERALL MEASURED															
OVERALL CALCULATED	101.6	103.2	103.5	106.2	106.0	106.9	107.8	108.7	109.7	111.1	112.6	113.3	113.7	113.5	160.2
PNOB	112.1	114.0	114.6	117.5	117.6	118.0	118.4	120.0	121.2	122.8	123.9	123.5	122.3	120.2	

REPRODUCIBILITY OF THE  
 OVERALL DATA IS POOR

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)													PWL				
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	160.	0.	0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	81.8	81.6	81.8	83.6	84.1	84.6	85.3	87.3	88.1	89.3	91.1	94.6	99.8	103.3				142.0
63	81.3	83.5	83.3	84.3	87.8	86.0	88.0	88.0	88.8	89.8	92.3	95.8	100.3	104.3				143.0
RADIAL 100. FT. (30. M)	80	80.9	82.4	83.4	83.9	83.9	85.9	86.9	88.1	89.4	90.1	93.1	96.1	99.9	102.9			142.4
VEHICLE PRB	100	82.1	82.1	83.9	84.4	84.6	86.1	86.6	87.4	88.6	89.6	92.1	95.4	98.1	98.1			140.6
CONFIG NC-062	125	81.9	82.2	82.9	84.2	84.2	85.2	85.7	86.2	87.2	88.4	90.7	92.2	94.9	95.9			138.5
LOC ATT FAN	160	81.9	81.4	83.7	84.7	83.7	85.4	85.7	86.2	89.4	90.9	93.4	94.4	97.7	99.2			140.7
DATE 06-18-75	200	83.0	83.3	86.3	86.5	85.5	87.8	88.8	90.5	93.3	95.3	98.0	99.8	103.0	101.0			144.9
RUN 43	250	86.8	87.3	89.5	89.7	90.3	91.5	92.3	94.0	95.3	97.2	100.5	102.7	103.9	100.5			146.9
TAPE S4440	315	90.5	91.0	91.5	93.5	93.8	94.0	95.3	96.3	97.3	98.3	101.5	102.7	103.0	100.3			147.8
BAR 29.0 HG	400	89.7	90.7	90.9	94.2	94.7	94.2	94.9	95.4	95.4	96.2	97.9	98.9	97.9	97.4			145.6
(98030. N/M2)	500	88.1	89.1	90.1	92.6	91.3	91.3	92.1	94.1	94.8	95.6	99.1	99.8	98.8	97.1			145.1
TAMB 83. DEG F	630	90.2	91.0	91.2	93.7	93.7	94.0	95.2	95.8	97.0	98.5	99.7	101.0	99.7	96.7			146.7
(301. DEG K)	800	89.5	91.5	91.8	92.8	94.0	93.8	94.5	94.6	95.5	97.8	99.8	99.3	98.0	96.3			146.0
TWET 77. DEG F	1000	90.1	91.4	92.4	94.2	94.4	94.3	96.4	95.8	97.1	98.6	100.1	98.7	97.9	95.2			146.6
(298. DEG K)	1250	90.5	91.3	91.5	95.3	94.2	97.1	96.5	97.4	99.0	100.9	100.0	99.0	97.5	94.6			147.7
HACT 0. GM/M3	1600	89.4	89.7	90.1	93.5	93.1	93.3	93.9	94.8	96.5	98.0	99.0	97.1	95.8	92.9			145.6
(. KG/M3)	2000	87.8	88.0	89.0	92.8	92.1	92.9	92.0	93.9	94.6	96.4	98.1	95.7	94.4	91.3			144.4
NFA 10966. RPM	2500	83.8	86.5	88.3	91.2	91.6	90.2	91.4	92.4	93.9	95.8	97.9	94.7	93.1	90.4			143.6
(1148. RAD/SEC)	3150	81.9	86.8	88.4	88.9	89.1	90.0	89.4	92.1	92.9	95.9	95.9	94.9	92.4	88.2			142.8
NFK 10721. RPM	4000	83.7	83.1	85.7	90.1	91.2	89.9	89.9	92.4	92.6	92.3	95.1	94.1	91.4	88.9			142.4
(1122. RAD/SEC)	5000	82.2	85.8	85.4	88.8	88.3	87.9	89.3	90.8	91.8	95.0	92.3	93.3	90.3	87.1			141.7
NFD 10628. RPM	6300	80.2	83.7	82.8	86.8	87.6	90.1	88.3	91.3	92.2	91.6	93.9	94.4	90.2	85.9			141.8
(1113. RAD/SEC)	8000	80.6	81.9	83.3	87.1	87.2	89.8	90.6	92.4	92.9	94.7	94.7	93.4	89.1	86.2			143.2
NO. OF BLADES 44	10000	78.5	82.2	81.0	84.8	86.2	90.3	88.5	91.0	92.1	92.5	93.3	93.9	89.1	84.9			142.9
FAN TIP SPEED 16000 FT/SEC	12500	76.7	79.5	79.3	82.9	85.3	89.7	88.8	90.7	91.5	92.2	92.4	92.3	87.0	83.3			143.4
OVERALL MEASURED	14000	75.0	78.8	76.7	81.7	83.4	88.7	88.0	90.8	90.2	92.1	90.8	92.3	85.0	82.2			144.6
OVERALL CALCULATED	20000	71.3	75.3	74.5	79.9	80.4	84.8	83.3	87.5	85.9	88.9	87.9	89.7	81.6	80.1			143.9
PWDB		100.4	101.5	102.2	104.7	104.6	105.6	106.1	107.2	108.2	109.8	111.3	111.8	112.2	111.9			158.8
		110.9	112.6	113.2	116.0	116.4	116.9	116.9	118.4	119.4	121.3	122.6	122.0	120.6	118.4			

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)	
50	82.1	82.6	82.8	84.1	84.8	86.1	85.8	87.8	88.6	89.8	92.3	95.8	100.8	105.3				143.4
63	82.3	84.0	83.8	85.5	87.5	86.3	88.3	88.3	89.8	92.8	97.0	101.5	105.8					144.1
RADIAL 100. FT. (30. M)	80	81.9	83.4	83.9	85.1	84.9	86.9	87.4	89.1	90.4	91.9	93.9	97.6	101.4	104.6			143.9
VEHICLE PPG CONFIG NC-062	100	83.1	83.6	84.6	85.4	85.4	87.4	87.4	88.4	89.6	92.4	93.1	96.4	98.4	99.9			141.5
LCC ATT FAN	125	83.2	83.4	83.9	85.2	84.9	86.2	86.2	87.4	88.2	89.9	91.9	93.7	95.7	98.2			139.9
DATE 06-18-75	160	82.7	82.4	83.2	84.9	84.2	85.7	86.2	87.4	88.7	90.4	93.7	96.4	99.9	101.7			142.2
RUN 44	200	84.5	85.0	87.8	88.3	86.5	90.0	91.8	93.0	93.0	95.3	99.0	102.0	104.8	103.3			146.6
TAPE S3721	250	88.0	88.8	90.5	90.5	90.8	92.7	93.5	95.0	96.8	98.7	102.0	105.0	105.3	102.7			148.6
BAR 29.2 HG (98030. N/42)	315	91.5	92.3	93.0	94.5	94.0	95.0	96.0	97.0	98.0	100.0	102.0	104.5	104.0	101.8			149.0
TAMB 83. DEG F (301. DEG K)	400	90.9	92.2	92.9	98.2	98.7	97.9	100.4	99.9	98.2	99.2	100.4	101.2	99.9	99.2			148.7
THEY 77. DEG F (298. DEG K)	500	88.8	89.8	90.3	91.6	91.1	91.3	92.1	93.8	95.3	96.4	100.6	102.1	101.1	99.6			146.4
HACT 0. GM/M3 (. KG/43)	630	91.5	92.5	93.0	94.5	94.7	95.5	96.0	97.5	98.0	99.8	101.5	102.7	101.2	98.7			148.2
NFA 11613. RPM (1216. RAD/SEC)	800	92.3	93.5	95.0	94.8	96.5	97.1	96.0	97.8	97.5	99.3	100.8	100.5	100.3	96.0			147.9
NFK 11353. RPM (1189. RAD/SEC)	1000	91.9	92.3	92.9	95.7	95.6	95.5	96.9	97.3	98.1	100.3	102.1	101.0	99.1	96.7			148.1
NFD 10628. RPM (1113. RAD/SEC)	1250	92.5	93.6	94.3	97.8	96.7	97.1	98.3	98.6	99.3	101.4	102.0	102.3	99.8	96.8			149.2
NC. OF BLADES 44	1600	90.4	91.9	91.9	95.9	95.1	95.5	95.9	96.5	98.0	99.8	100.0	99.4	97.5	94.2			147.3
FAN TIP SPEED FT/SEC	2000	89.5	89.5	90.5	94.5	93.1	93.9	94.3	96.1	96.4	98.4	99.6	97.5	95.9	93.0			146.1
	2500	86.0	89.0	90.3	93.9	92.9	91.9	93.1	94.4	96.4	98.1	99.9	96.7	95.4	92.7			143.7
	3150	83.2	88.3	87.9	90.7	91.4	91.5	90.9	93.9	95.1	97.4	98.1	97.2	94.6	89.9			144.7
	4000	85.2	85.1	87.4	92.1	92.2	91.9	91.9	94.9	94.9	95.8	97.4	95.8	92.9	90.4			144.3
	5000	83.5	87.6	87.1	90.6	89.3	89.7	91.8	93.3	93.6	96.3	94.3	95.1	91.6	88.8			143.4
	6300	81.5	85.4	84.3	88.8	88.4	91.9	90.0	93.5	93.9	93.1	95.9	95.4	91.7	87.4			143.5
	8000	81.8	84.4	84.8	89.1	85.4	91.6	92.6	94.7	94.6	95.7	95.9	95.1	90.1	87.7			144.7
	10000	80.5	83.9	83.0	87.8	87.9	91.8	90.5	93.7	94.3	94.0	95.3	95.6	89.9	86.9			144.9
	12500	78.9	81.8	81.3	85.7	87.0	91.9	90.5	93.0	93.7	93.9	94.0	94.8	88.5	85.8			145.5
	16000	77.7	80.5	78.7	84.2	85.4	90.7	89.7	93.8	93.2	93.8	92.8	95.3	86.7	85.2			147.0
	20000	73.6	77.5	76.5	81.9	81.9	86.8	85.6	90.6	88.9	90.7	89.9	93.2	83.9	83.6			146.4
OVERALL MEASURED																		
OVERALL CALCULATED		101.9	103.1	103.9	106.6	106.2	107.2	107.9	109.0	109.6	111.2	112.9	113.8	113.8	113.8			160.5
PWDR		112.5	114.2	114.9	118.1	117.6	118.2	118.6	120.6	121.2	122.8	124.3	124.0	122.4	120.4			

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL		
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.	0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)		
50	80.8	80.3	80.6	81.8	82.6	82.8	83.1	84.6	85.6	87.1	89.1	91.3	93.8	95.8	99.6				138.7
63	79.5	81.0	81.3	82.0	86.5	83.0	85.5	85.0	86.3	87.3	89.3	92.3	96.5	100.3					139.5
RADIAL 100. FT.	80	78.6	80.1	81.1	81.4	81.6	83.6	84.1	85.9	86.9	88.1	90.4	92.9	96.1	98.4				138.9
( 30. 4)	100	79.6	79.6	81.4	81.9	81.9	83.4	83.6	84.6	86.1	87.1	89.9	92.4	94.6	94.4				137.5
VEHICLE PPG	125	79.4	79.9	80.7	81.9	81.7	82.7	82.7	83.4	84.4	85.9	88.2	89.7	92.2	91.9				135.7
CONFIG NC-062	160	79.7	82.7	80.7	81.4	81.4	82.9	84.7	83.9	87.4	87.7	89.2	90.7	93.7	94.2				137.2
LCC ATT FAN	200	78.8	80.0	81.3	81.8	82.3	84.0	85.0	86.5	88.3	90.3	93.3	95.5	98.5	96.8				140.5
DATE C6-18-75	250	84.0	84.5	86.8	87.2	86.5	88.5	89.3	90.5	92.8	94.2	96.8	99.2	100.5	98.2				143.7
RUN 45	315	86.8	87.3	88.8	90.7	91.8	91.8	91.3	93.3	94.3	96.5	98.8	99.5	99.8	98.0				144.9
TAPE S3441	400	86.9	88.2	87.9	90.4	91.2	90.4	90.9	91.7	92.2	93.2	95.7	96.2	95.4	94.2				142.4
BAR 29.0 HG	500	85.1	85.8	86.6	89.6	89.8	87.8	88.3	90.1	91.6	92.1	95.1	96.6	96.1	94.6				141.8
(98030. N/M2)	630	86.5	87.7	89.0	93.5	93.7	94.3	94.2	95.3	95.8	95.0	97.6	97.7	97.5	94.7				144.8
TAHR 83. DEG F	800	86.0	87.5	89.5	90.0	90.8	91.6	90.8	92.1	92.8	95.6	96.8	95.0	95.5	92.8				142.9
(301. DEG K)	1000	86.6	87.5	89.1	91.5	91.9	91.8	93.9	93.8	95.1	96.6	97.9	95.7	95.4	92.2				144.2
TWET 77. DEG F	1250	87.0	88.6	93.0	94.3	94.7	93.9	95.5	96.4	96.0	96.9	98.8	96.5	95.0	92.1				145.7
(298. DEG K)	1600	85.9	86.4	87.4	90.4	89.8	90.8	90.6	91.3	92.8	95.3	96.3	95.4	92.5	89.9				142.7
HACT V. GM/M3	2000	83.8	84.5	86.0	89.2	88.3	88.4	88.3	90.9	91.4	92.9	95.6	92.2	91.1	89.0				141.2
(. KG/M3)	2500	81.0	83.3	85.0	87.9	87.6	85.9	87.6	89.1	90.4	91.8	95.6	91.9	90.9	87.7				140.5
NFA 10500. RPM	3150	78.7	82.8	82.4	85.4	85.4	86.2	85.1	88.6	89.4	92.6	93.1	92.9	90.4	85.4				139.7
(1050. RAD/SEC)	4000	80.4	80.3	82.7	86.6	87.2	86.2	86.1	89.1	89.4	88.8	92.4	91.8	88.6	86.6				139.2
NFK 9800. RPM	5000	79.2	82.8	82.6	85.3	84.6	84.2	84.0	87.6	88.3	91.5	89.8	90.8	87.8	84.6				138.5
(1034. RAD/SEC)	6300	77.2	80.9	79.5	83.8	83.9	86.9	84.8	88.5	90.7	90.1	91.6	91.9	88.2	83.9				139.4
NFD 16628. RPM	8000	77.3	79.4	80.1	83.9	83.7	86.3	86.9	89.7	91.4	93.2	92.9	91.4	86.9	83.4				141.0
(1113. RAD/SEC)	10000	75.3	79.7	78.0	82.3	82.9	87.3	85.5	89.2	89.8	90.3	91.3	91.4	86.6	82.9				140.6
NO. OF BLADES 44	12500	74.9	77.5	76.8	80.7	82.3	87.2	86.5	89.2	90.2	90.9	91.1	91.0	85.5	82.1				141.8
FAN TIP SPEED	16000	73.2	76.3	74.9	79.7	81.1	86.5	85.7	89.5	89.5	91.3	90.0	91.3	83.7	82.0				143.4
FT/SEC	20000	70.1	74.0	72.5	77.4	78.1	82.6	81.3	86.1	84.7	87.9	86.6	89.4	80.6	80.6				142.7
OVERALL MEASURED		97.2	98.4	99.9	102.2	102.5	102.9	103.3	104.7	105.5	106.9	108.6	108.7	109.0	108.4				156.1
OVERALL CALCULATED		107.5	109.2	110.4	113.0	113.2	113.2	113.6	115.5	116.3	118.2	120.0	119.4	118.0	115.6				



MODEL SOUND PRESSURE LEVELS (59.0 DB)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

SFL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
30	78.3	77.6	78.8	79.1	81.3	79.8	80.4	81.8	82.6	83.3	85.3	87.8	91.8	95.1				134.9
63	76.5	77.8	79.0	78.8	85.5	79.5	84.3	81.8	82.8	83.8	85.3	87.8	91.5	94.8				135.2
RADIAL 100. FT. (30. ft)	80	75.4	76.9	77.9	78.1	78.1	80.4	80.9	82.1	82.9	84.1	86.4	88.6	91.6	93.9			134.7
100	75.9	76.1	78.4	78.4	78.9	80.4	80.4	81.4	82.6	83.9	85.6	88.1	90.4	90.1				133.6
VEHICLE PPG	125	76.0	76.0	77.0	78.5	78.2	79.2	79.2	80.7	81.0	82.2	84.2	85.5	87.7	87.7			131.8
CONFIG NC-062	160	76.2	75.2	77.2	78.2	78.4	78.2	79.7	79.7	81.2	82.7	84.9	86.2	89.4	89.7			132.6
LCC ATT FAN	200	75.5	76.5	78.0	78.0	78.5	80.8	82.0	83.5	84.5	87.0	89.0	91.3	94.3	92.8			136.5
DATE 66-10-75	250	80.8	81.0	83.3	83.5	83.3	85.2	85.8	87.5	89.0	90.5	93.0	95.5	96.0	94.0			139.8
RLN 46	315	83.0	83.3	85.3	86.8	86.8	88.5	89.0	89.8	91.3	91.8	94.3	95.8	95.8	93.8			141.0
TAPE S3441	400	82.4	83.2	83.9	85.9	86.7	86.9	87.2	87.9	88.4	89.7	91.2	92.2	90.9	89.7			138.4
BAR 29.9 HG	500	80.1	81.8	82.8	83.8	83.1	83.1	84.1	85.3	86.6	87.9	90.6	92.1	91.3	89.6			137.1
(9030. N/M2)	630	83.0	83.5	84.7	89.2	87.7	88.5	88.5	89.8	90.7	91.8	93.0	93.2	92.5	90.2			140.1
TAMB 84. DEG F	800	82.5	83.8	84.3	85.8	86.5	86.6	87.5	88.3	88.8	90.8	92.3	91.3	91.3	88.3			138.8
(302. DEG K)	1000	82.4	85.8	85.6	89.0	87.6	88.3	89.9	89.5	91.5	93.3	94.4	91.7	91.4	88.0			140.6
THET 77. DEG F	1250	81.8	83.3	84.0	87.3	86.7	87.4	87.8	88.9	91.5	93.1	94.3	91.8	90.0	87.8			140.1
(298. DEG K)	1600	81.1	81.9	81.9	85.4	85.3	86.8	86.1	87.3	88.5	90.5	91.5	90.1	88.3	85.2			138.1
MACT 0. GM/H3	2000	79.5	80.0	81.3	84.5	84.1	84.7	85.0	87.4	86.6	88.4	91.1	89.0	86.9	84.5			137.0
(. KG/H3)	2500	76.3	79.3	81.0	83.7	83.2	81.9	83.9	84.9	86.9	87.8	91.6	87.2	86.1	83.4			136.3
NFA 9203. RPM	3150	73.7	78.8	78.4	81.4	85.9	82.0	81.1	84.2	85.4	88.1	89.6	88.2	85.4	80.7			135.4
(964. RAD/SEC)	4000	75.5	76.1	78.2	82.6	82.7	81.9	81.9	84.6	84.7	84.8	86.4	86.9	84.2	81.6			134.9
NFK 8993. RPM	5000	74.5	78.6	78.4	81.8	80.1	80.2	81.5	83.6	84.6	88.0	85.8	86.1	83.6	80.1			134.5
(942. RAD/SEC)	6300	73.7	77.7	76.8	80.4	80.6	83.6	81.8	85.8	88.4	87.1	89.1	89.4	85.2	80.7			136.7
NFD 10628. RPM	8000	73.0	75.9	76.6	80.6	79.4	82.1	83.1	85.4	86.9	89.0	89.2	87.9	82.9	79.4			137.0
(1113. RAD/SEC)	10000	71.6	75.9	74.5	79.4	79.4	84.1	82.8	86.7	87.4	88.0	89.4	88.6	83.4	79.1			138.0
NC. OF BLADES 44	12500	70.9	74.0	74.0	77.7	79.5	84.9	84.3	87.7	88.7	90.0	89.9	89.3	82.7	79.8			140.2
FAN TIP SPEED	16000	69.5	72.8	71.7	77.0	78.6	83.8	83.5	88.1	87.7	89.8	88.5	89.8	81.0	79.5			141.7
FT/SEC	20000	63.6	76.8	69.0	69.9	74.9	79.9	79.1	84.6	83.4	86.9	85.4	88.0	77.4	76.8			141.1
OVERALL MEASURED		93.1	94.5	95.3	97.9	97.6	98.7	99.2	100.7	101.8	103.3	104.7	104.8	104.6	103.9			122.4
OVERALL CALCULATED		93.1	94.5	95.3	97.9	97.6	98.7	99.2	100.7	101.8	103.3	104.7	104.8	104.6	103.9			122.4
PNDB		103.2	105.2	106.1	108.8	108.7	109.1	109.6	111.3	112.6	114.2	116.1	115.0	113.5	111.2			

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MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	73.3	72.1	73.6	73.8	76.8	73.8	76.1	75.6	76.1	77.3	79.3	81.1	83.8	86.6				127.9
63	70.8	72.3	76.5	72.5	85.3	73.0	83.0	75.8	76.0	76.8	78.8	81.5	83.8	85.8				129.9
RADIAL 100. FT. (30. M)	80	69.6	70.6	71.0	71.9	73.9	74.4	75.6	76.6	77.6	79.6	80.9	82.9	84.4				127.0
VEHICLE PPG	125	69.7	69.7	71.0	73.7	72.5	72.7	75.2	74.0	75.0	76.2	77.5	78.2	79.0				125.1
CONFIG NC-062	160	69.4	68.4	69.4	70.4	70.7	71.9	72.4	73.2	73.2	74.7	76.7	78.4	80.9				124.7
LOC ATT FAN	200	68.8	69.5	71.0	71.5	72.0	73.8	75.0	76.8	77.3	79.3	81.5	83.3	85.8				128.7
DATE 06-18-75	250	74.3	74.9	76.5	77.0	78.5	78.5	80.0	81.0	82.0	83.7	85.8	87.2	87.8				132.4
RUN 47	3.5	75.8	76.8	78.8	79.8	79.8	80.5	81.0	82.3	83.0	84.3	86.8	87.8	86.5				133.1
TAPE S3441	40	75.9	76.7	77.2	80.4	81.7	81.4	80.4	82.2	82.2	84.4	86.7	86.4	83.7				132.6
BAR 29.0 HG	500	73.1	74.1	74.8	77.1	76.1	75.8	76.8	78.6	79.6	80.1	82.6	84.1	83.3				129.5
(98030. N/M2)	630	74.5	76.0	78.2	80.7	80.5	82.0	81.7	84.0	83.0	85.0	86.7	86.5	84.7				133.3
TAMB 84. DEG F	800	75.3	78.3	78.0	81.3	83.0	82.6	84.5	83.1	83.8	85.1	86.3	85.8	84.0				135.6
(302. DEG K)	1000	75.9	75.8	78.4	88.7	89.9	80.3	82.1	82.8	84.4	86.6	87.4	85.0	82.9				133.3
TWET 77. DEG F	1250	75.8	76.3	79.5	82.1	81.0	79.9	82.5	83.1	84.8	87.4	87.0	85.5	83.5				133.8
(298. DEG K)	1600	73.6	74.7	75.9	78.4	79.8	79.6	81.4	82.0	81.3	84.0	85.8	83.9	80.8				131.9
HACT 0. GM/H3	2000	72.0	73.3	73.3	76.8	77.3	77.4	78.8	79.9	79.4	81.6	84.9	82.2	80.1				130.2
(. KG/H3)	2500	69.5	72.3	73.8	75.9	77.2	75.9	77.9	78.6	79.9	81.3	86.1	81.4	79.6				130.2
NFA 7988. RPM	3150	66.4	71.1	70.4	73.2	73.4	74.5	73.6	75.9	77.9	80.4	82.1	80.7	77.4				127.8
(794. RAD/SEC)	4000	68.7	68.6	70.2	73.9	74.7	73.4	73.9	76.6	76.4	76.8	80.4	78.9	75.9				126.8
NFK 7415. RPM	5000	69.0	71.8	71.4	73.6	73.6	74.4	75.0	79.1	79.6	82.5	82.0	79.8	76.3				129.0
(776. RAD/SEC)	6300	67.2	70.4	68.8	72.1	73.6	76.1	74.3	79.5	81.4	80.8	84.6	84.1	78.9				130.7
NFD 10628. RPM	8000	66.5	68.7	69.3	72.6	73.4	76.1	76.9	80.2	81.6	84.7	85.9	83.7	77.9				132.3
(1113. RAD/SEC)	10000	66.6	69.2	68.9	72.4	73.9	78.1	77.3	81.5	83.9	84.3	86.1	85.9	79.6				134.1
NO. OF BLADES 44	12500	66.2	68.3	68.5	71.5	73.8	79.4	78.8	82.7	85.0	86.2	86.9	87.0	79.2				136.4
FAN TIP SPEED 16000	16000	64.2	66.9	66.4	71.3	73.4	78.8	78.0	83.3	83.7	86.3	85.5	88.3	78.0				138.2
FT/SEC 20000	20000	60.1	62.8	62.8	67.0	68.9	73.0	72.8	78.3	77.7	81.9	81.1	84.7	73.1				136.3
OVERALL MEASURED		86.3	87.4	88.9	91.0	92.4	92.2	93.4	94.6	95.5	97.4	98.8	98.7	96.7				146.6
OVERALL CALCULATED		86.2	87.9	89.1	91.4	92.3	92.1	93.4	94.9	95.8	97.7	98.2	96.6	96.2				
PND8		96.2	97.9	99.1	101.4	102.3	102.1	103.4	104.9	105.8	107.7	110.2	108.6	106.2				

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)		0. (0.)
	50	69.1	67.6	69.8	69.1	75.1	67.6	73.6	69.3	69.8	71.3	72.3	73.8	74.8	76.6				121.7
	63	68.0	67.5	74.8	66.5	85.0	66.5	82.5	69.8	68.0	69.5	70.8	75.0	74.3	75.3				127.2
RADIAL 100. FT.	80	63.8	64.4	64.9	65.1	65.9	66.4	67.4	67.4	68.9	69.4	70.6	71.9	73.4	73.9				118.5
(30. 4)	100	66.4	69.1	65.6	69.1	66.4	67.1	68.1	68.4	69.4	70.1	70.1	72.9	71.9	73.1				119.2
VEHICLE PPG	125	63.5	62.0	65.0	64.2	64.0	64.2	64.7	65.0	65.7	66.7	67.5	68.7	69.2	69.7				115.8
CONFIG NC-062	160	62.7	61.9	62.2	62.7	64.2	64.2	65.7	64.7	64.4	65.4	67.7	68.7	70.2	70.4				115.6
LOC ATT FAN	200	64.0	64.5	64.5	64.5	66.3	65.8	67.3	67.8	69.3	70.3	72.0	74.0	74.8	74.5				119.5
DATE 06-18-75	250	66.3	66.8	68.5	68.5	68.8	70.2	71.8	72.5	73.3	74.5	76.3	77.5	77.8	78.0				123.2
RUN 48	315	69.0	69.8	71.3	72.3	72.5	73.0	74.0	75.0	76.0	76.3	77.8	79.2	78.0	74.8				125.1
TAPE S3441	400	67.7	67.9	69.2	71.9	72.7	72.7	73.2	73.4	73.2	74.4	75.4	76.7	74.4	71.2				123.3
BAR 29.0 HG	500	65.6	66.8	66.8	68.6	69.8	68.6	70.1	70.8	72.6	73.4	75.1	76.8	75.1	72.6				122.0
(90030. N/M2)	630	67.0	68.7	71.0	72.5	74.0	74.5	74.7	77.8	77.5	77.5	79.5	79.7	76.7	76.0				126.3
TAMB 84. DEG F	800	66.0	69.0	69.0	70.3	72.0	72.1	72.8	73.8	74.0	76.6	77.8	78.5	76.0	72.5				124.4
(302. DEG K)	1000	66.1	67.7	68.9	71.2	71.9	72.3	73.9	74.8	76.4	79.1	79.6	79.2	75.1	73.0				125.6
THET 77. DEG F	1250	66.5	67.8	69.0	72.3	72.5	72.9	74.3	75.4	77.8	79.9	80.0	79.5	76.3	74.3				126.4
(298. DEG K)	1600	66.4	66.7	67.6	70.4	71.3	71.8	72.4	74.5	74.5	77.3	78.0	78.0	74.5	72.2				124.6
WACT 0. GM/M3	2000	65.0	64.8	65.8	67.6	69.3	69.7	70.0	72.9	72.1	74.1	77.6	77.0	73.6	71.0				123.0
(. KG/M3)	2500	61.0	63.5	64.8	67.2	66.7	67.9	69.9	71.9	72.6	74.6	78.6	76.4	73.4	70.4				123.1
NFA 5026. RPM	3150	57.7	61.8	61.7	63.9	65.4	66.0	65.6	68.2	69.9	71.6	74.1	74.4	70.1	65.9				119.9
( 618. RAD/SEC)	4000	61.2	60.6	63.0	64.9	66.2	66.2	65.7	68.6	68.9	68.3	72.2	71.1	67.9	66.1				118.7
NFK 5693. RPM	5000	61.5	62.6	63.1	64.3	64.8	65.9	66.8	69.9	72.1	74.8	74.0	74.3	70.1	66.3				121.3
( 596. RAD/SEC)	6300	61.5	63.2	63.0	64.6	66.6	69.6	67.5	73.8	76.2	77.1	79.6	81.4	76.7	70.9				126.3
NFD 10628. RPM	8000	61.3	61.9	62.8	64.4	65.2	68.8	68.9	73.2	74.4	78.0	79.9	80.2	73.4	68.9				126.3
(1113. RAD/SEC)	10000	61.1	62.4	61.3	64.4	65.9	71.4	69.5	74.7	77.1	78.0	80.9	81.4	75.1	70.6				128.3
NO. OF BLADES 44	12500	60.4	61.8	61.8	64.0	66.3	72.7	71.0	76.2	77.7	80.7	82.1	83.0	75.0	70.3				131.0
FAN TIP SPEED	16000	59.5	60.8	59.4	62.3	64.6	71.3	69.7	74.8	76.8	79.1	79.3	83.1	72.7	69.5				131.5
FT/SEC	20000	56.6	58.0	57.5	58.6	60.1	65.9	64.3	70.3	68.9	72.9	72.6	78.5	65.9	64.8				128.7
OVERALL MEASURED																			
OVERALL CALCULATED		79.3	80.2	81.8	82.6	87.4	84.4	86.9	87.1	88.2	90.1	91.5	92.5	88.7	86.8				139.7
PNDB		88.9	89.8	90.8	92.7	94.3	94.4	95.4	97.6	99.1	100.5	102.5	103.4	99.7	96.4				

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
FREQ.	(0.52)	(0.76)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.	(0.	(0.	
50	74.1	73.6	73.6	74.1	77.1	74.3	76.3	76.1	76.8	77.8	79.6	80.8	83.8	86.8				129.2
63	70.5	72.5	75.8	73.0	85.0	73.8	83.5	75.8	76.3	76.8	79.0	81.3	83.5	86.3				130.0
RADIAL 100. FT. (30. 4)	80	70.1	71.1	72.1	72.1	72.4	74.1	74.4	75.4	76.6	77.9	79.6	81.1	83.1	84.9			127.3
VEHICLE PPG	100	70.9	71.1	72.4	72.4	73.1	74.4	74.1	74.6	75.4	76.4	78.6	80.4	81.1	81.1			126.1
CONFIG NC-062	125	70.2	70.5	71.7	74.3	72.7	72.7	75.5	74.0	74.5	76.0	76.5	78.2	78.7	80.5			125.0
LOC ATT FAN	160	69.4	68.9	69.4	71.2	71.2	72.2	72.4	72.9	73.2	74.9	77.2	78.9	81.2	82.2			125.0
DATE 36-18-75	200	68.5	69.5	71.0	71.0	71.5	74.0	75.3	76.5	78.0	79.8	81.8	83.8	85.8	84.8			128.9
RUN 49	250	74.5	73.8	76.5	76.7	76.3	78.5	80.0	81.7	82.8	83.7	86.8	87.7	88.0	86.0			132.8
TAPE S3441	315	76.0	76.8	78.8	79.3	79.5	80.5	81.0	82.0	83.3	84.5	86.8	87.3	86.0	84.0			132.9
BAB 29.0 HG	400	76.4	76.7	77.9	81.2	81.7	80.7	80.4	81.9	81.9	83.4	85.7	84.4	82.4	80.9			132.0
(98030. N/M2)	500	73.6	74.6	74.6	76.8	76.3	75.8	77.1	79.1	79.6	86.4	83.6	85.1	83.3	80.6			129.9
TAMB 84. DEG F	630	75.2	76.2	78.5	81.0	80.5	81.3	81.7	84.3	83.0	84.8	86.2	86.7	85.0	83.2			133.2
(302. DEG K)	800	76.5	78.8	77.8	81.0	83.0	82.1	83.8	82.6	83.0	84.6	86.8	85.5	84.0	80.3			133.3
TWET 77. DEG F	1000	76.1	75.8	76.4	80.7	80.1	80.0	82.4	82.3	83.9	86.1	86.9	84.5	82.4	80.2			153.0
(298. DEG K)	1250	76.8	76.6	78.8	81.6	81.5	79.9	83.3	82.6	84.5	87.1	87.0	84.8	83.3	81.1			133.6
HACT 0. GM/M3	1600	73.6	74.7	75.9	78.4	79.3	79.6	81.6	81.5	81.0	84.5	85.8	83.6	81.5	80.4			131.9
(. KG/M3)	2000	72.3	73.0	74.0	77.0	77.6	77.2	78.8	79.6	79.6	81.6	85.1	82.0	80.4	77.5			130.2
NFA 7561. RPM	2500	69.3	72.3	73.8	76.4	76.7	75.9	77.9	79.1	80.4	81.6	85.9	80.9	79.9	76.4			130.2
(792. RAD/SEC)	3150	66.9	70.8	70.9	73.2	73.4	74.2	73.9	76.4	77.9	80.4	82.1	80.7	77.6	73.4			127.8
NFK 7389. RPM	4000	68.7	68.3	70.5	73.6	74.5	73.9	73.9	76.6	76.4	76.1	80.7	78.9	75.9	73.6			126.7
(774. RAD/SEC)	5000	69.2	71.6	71.6	73.8	73.3	74.4	75.3	79.1	79.6	82.5	82.5	80.3	76.8	73.3			129.2
NFD 10628. RPM	6300	67.5	70.7	69.3	72.1	72.9	76.1	74.5	80.3	80.7	81.1	84.1	84.1	79.2	74.4			130.6
(1113. RAD/SEC)	8000	67.3	68.2	69.6	72.6	72.7	75.8	77.1	80.4	80.9	84.5	85.2	83.9	77.7	73.9			132.1
NO. OF BLADES 44	10000	66.3	69.4	68.5	72.4	73.2	77.9	76.8	81.7	83.6	84.3	85.9	85.9	79.4	74.6			133.9
FAN TIP SPEED	12500	66.4	68.3	68.3	71.7	73.8	79.4	78.5	83.4	84.5	86.2	87.1	87.3	79.2	74.8			136.5
FT/SEC	16000	64.7	66.8	65.9	71.5	73.4	79.0	78.2	83.3	83.2	86.3	85.5	87.8	78.0	75.0			138.1
OVERALL MEASURED	20000	60.6	63.5	62.8	67.1	65.1	73.9	72.6	78.3	77.2	81.4	80.9	84.7	72.6	71.1			136.1
OVERALL CALCULATED		84.8	87.6	89.9	91.1	92.2	92.0	93.6	94.7	95.3	97.2	98.8	98.5	96.7	95.8			146.5
PNOB		96.5	98.0	99.1	101.6	102.0	102.1	103.4	105.0	105.7	107.6	110.1	108.6	106.2	103.8			

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	50	69.1	68.6	69.8	68.8	75.3	69.6	74.6	70.1	70.8	73.6	73.3	74.6	76.1	85.6				124.3
63	63	66.5	67.5	75.0	67.0	84.3	69.0	82.8	70.8	69.3	72.0	71.5	75.5	74.8	86.0				127.9
80	80	64.6	64.9	66.1	66.1	66.6	68.9	68.9	68.6	69.1	71.9	72.1	72.9	74.1	85.4				122.8
100	100	65.6	65.6	66.6	67.9	67.1	68.6	69.4	69.4	69.9	72.4	71.6	74.4	73.1	84.4				122.5
125	125	64.4	62.4	65.2	65.2	65.2	65.9	65.9	66.4	67.2	69.9	69.7	70.2	70.2	83.4				120.7
160	160	64.4	63.7	64.4	63.9	65.7	66.4	67.7	66.9	66.2	68.9	69.7	71.2	72.2	81.9				120.1
200	200	65.3	65.8	67.3	66.3	67.5	67.3	68.5	69.5	71.0	72.3	75.0	76.3	76.8	82.3				122.6
250	250	68.8	69.3	71.5	71.7	71.8	72.7	73.3	74.5	75.3	77.5	78.8	80.7	80.8	81.7				126.1
315	315	71.0	71.8	73.3	75.0	75.0	74.8	75.8	77.5	77.5	78.5	80.3	82.2	80.5	80.5				127.6
400	400	69.9	70.2	70.7	73.4	74.9	74.9	75.4	77.4	76.4	76.9	77.7	78.4	76.2	76.9				125.8
500	500	68.1	69.6	70.8	71.6	71.8	70.8	71.8	73.8	75.1	76.6	79.6	82.6	79.3	77.8				126.0
630	630	69.5	71.0	72.7	74.2	75.7	76.0	76.7	79.3	79.2	80.5	81.5	82.2	79.2	77.7				126.4
800	800	67.5	69.8	70.5	72.0	73.3	73.8	74.5	76.1	75.8	79.1	80.3	82.0	79.3	75.8				126.8
1000	1000	66.8	68.2	70.6	73.0	73.4	73.8	75.1	77.0	77.3	80.8	80.8	80.7	76.6	75.5				127.1
1250	1250	68.0	69.1	70.5	74.0	73.9	74.1	75.9	77.4	76.5	81.9	81.3	81.6	77.5	75.8				127.8
1600	1600	67.1	67.7	68.4	71.4	72.1	72.5	73.4	75.3	75.3	78.3	78.3	79.9	76.0	73.2				125.5
2000	2000	65.3	65.3	66.5	68.8	69.1	69.7	70.8	73.4	72.6	75.4	78.4	77.2	74.9	72.0				123.7
2500	2500	61.7	63.7	65.0	67.9	68.8	67.9	69.8	72.4	73.1	75.6	79.1	76.4	73.3	71.4				123.5
3150	3150	57.7	62.0	62.2	64.4	65.9	66.0	65.4	68.4	69.9	72.6	73.9	74.4	70.4	66.2				120.1
4000	4000	62.9	61.0	63.4	66.4	67.2	67.2	67.1	69.8	69.9	70.1	73.4	72.3	68.9	67.3				119.9
5000	5000	62.4	63.8	63.1	65.8	65.8	67.2	67.5	71.8	73.8	76.3	75.3	75.5	71.1	67.8				122.7
6300	6300	62.4	63.1	62.5	66.1	67.1	69.6	67.7	74.1	74.9	78.3	79.8	81.8	76.4	71.2				126.5
8000	8000	61.7	62.4	63.0	65.1	65.7	68.8	69.3	73.7	75.8	78.4	79.9	80.1	73.6	69.6				126.6
10000	10000	61.5	62.9	61.7	65.6	66.9	71.6	69.7	75.2	77.1	79.0	81.3	82.1	75.9	70.3				129.8
12500	12500	60.2	62.3	61.8	64.9	67.0	72.4	71.5	77.1	78.5	80.9	82.4	84.3	75.7	70.7				131.6
16000	16000	59.0	60.3	59.7	63.5	64.9	71.0	69.8	75.8	76.3	79.1	79.6	84.3	73.0	69.5				132.2
20000	20000	55.6	57.3	56.8	59.2	59.9	65.6	64.1	70.6	69.0	73.0	72.7	78.0	65.9	64.9				128.5
OVERALL MEASURED		80.5	81.2	83.0	84.1	87.7	85.6	87.8	88.7	89.2	91.6	92.7	94.1	90.5	94.1				140.9
OVERALL CALCULATED		90.0	90.6	91.7	93.9	95.1	95.2	96.2	96.7	99.4	102.0	103.5	104.5	100.6	99.6				
PND8																			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	78.6	78.8	78.6	79.1	80.6	80.3	80.8	81.8	83.8	85.3	87.3	87.3	91.6	95.1				134.8
63	77.0	78.8	78.8	78.8	85.8	80.0	84.8	82.0	82.0	84.5	85.8	88.4	91.8	95.0				135.5
RADIAL 100. FT. (30.4)	80	76.1	77.1	78.1	78.1	78.4	80.6	80.6	82.4	84.9	86.6	88.6	91.6	93.9				134.8
VEHICLE PPG	100	76.9	76.1	78.6	78.6	79.1	80.4	80.4	81.9	83.9	86.1	87.6	89.9	90.1				133.5
CONFIG NC-062	125	76.2	75.7	77.2	77.9	77.9	78.4	78.7	80.4	80.4	82.4	84.7	85.7	87.7	88.2			131.8
LOC ATT FAN	160	77.2	75.4	77.2	77.9	79.2	78.4	79.9	80.9	80.4	82.9	85.4	87.2	90.2	90.9			133.3
DATE 06-18-75	200	76.8	76.8	78.8	79.9	79.5	81.5	82.5	84.9	84.5	87.3	89.8	91.8	95.0	93.5			137.2
RUN 52	250	81.3	81.5	84.0	84.5	84.5	86.0	86.8	87.5	88.8	90.7	93.3	95.2	96.5	94.2			140.1
TAPE S3442	315	83.5	83.8	86.0	87.7	87.5	88.5	89.8	90.5	90.8	92.3	94.8	95.7	95.8	93.0			141.2
BAR 29.0 HG (97996. N/42)	400	82.4	83.4	83.9	86.4	86.2	86.4	86.9	87.9	87.2	89.7	91.7	92.7	91.2	89.4			138.4
TAMB 81. DEG F (300. DEG K)	500	81.1	82.1	83.6	84.6	84.1	83.8	84.6	86.3	86.6	88.1	91.1	92.1	92.3	90.1			137.6
TWET 75. DEG F (297. DEG K)	630	83.0	84.0	85.5	89.5	88.2	89.3	88.5	90.0	90.0	91.5	93.2	93.5	92.5	90.0			140.2
HACT 3. GM/M3 (. KG/M3)	800	82.5	83.8	85.3	86.0	86.8	87.3	86.5	88.1	88.0	91.1	93.0	91.8	90.8	88.8			138.9
NFA 9206. RPM (964. RAD/SEC)	1000	82.6	83.7	85.8	88.0	87.6	88.5	89.8	90.5	91.1	92.5	94.3	92.0	91.3	88.2			140.5
NFK 9017. RPM (944. RAD/SEC)	1250	82.8	84.1	84.5	87.3	87.7	87.6	88.5	89.9	90.8	93.1	94.0	92.5	90.5	87.5			140.3
NFD 1628. RPM (1113. RAD/SEC)	1600	81.6	81.4	83.1	85.9	85.6	86.5	86.4	87.8	88.3	91.0	92.0	90.9	88.5	85.2			138.4
NO. OF BLADES 44	2000	80.0	80.5	81.5	84.5	84.6	85.4	84.8	86.9	86.1	88.9	91.4	88.7	87.1	84.8			137.1
FAN TIP SPEED FT/SEC	2500	76.5	79.7	81.0	84.2	83.9	84.1	85.4	85.8	87.8	92.1	87.7	86.6	83.2				136.6
OVERALL MEASURED	NFA	3150	74.2	78.5	78.4	81.7	81.6	82.5	81.6	84.6	84.4	87.9	89.1	88.4	85.4	81.2		135.4
OVERALL CALCULATED	NFK	4000	75.9	76.0	78.7	82.6	83.4	82.2	82.6	85.1	83.6	84.6	88.1	87.3	84.4	81.8		134.9
	NFD	5000	75.4	78.6	78.9	81.3	80.6	80.9	82.3	84.1	84.3	87.8	86.3	86.8	83.3	80.3		134.7
		6300	74.2	77.1	76.5	80.6	80.8	84.3	82.2	87.7	87.4	87.3	89.6	89.8	84.9	81.2		137.0
		8000	73.2	75.7	76.8	80.3	80.2	82.6	83.8	86.2	86.8	88.4	89.2	87.6	83.1	79.9		137.0
		10000	72.0	76.1	74.9	79.8	80.1	83.6	82.9	86.7	86.6	88.0	89.3	89.3	83.4	79.8		138.0
		12500	71.7	74.3	74.3	78.4	80.3	84.9	84.5	88.1	88.2	89.7	90.4	90.3	83.0	79.2		140.4
		16000	69.5	72.3	71.9	77.3	78.6	84.3	83.3	88.1	87.5	89.6	88.6	90.3	81.3	79.3		141.7
		20000	65.6	69.6	69.1	74.7	75.2	79.9	79.4	84.9	82.5	86.2	85.4	88.3	77.2	76.9		141.0
OVERALL MEASURED																		
OVERALL CALCULATED		93.5	94.5	95.8	96.1	96.2	99.5	99.4	101.1	101.2	103.3	105.0	105.0	104.8	104.0			152.5
PND8		103.7	105.2	106.4	109.1	109.3	109.4	109.9	112.0	111.9	114.1	116.4	115.3	113.7	111.3			

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
	50	71.1	71.1	72.1	71.6	78.1	71.6	75.3	73.3	72.6	74.6	76.3	77.6	89.1	81.3				128.0
	63	68.5	69.3	74.8	69.0	87.5	70.8	83.5	72.8	71.3	72.8	73.8	77.0	88.0	79.8				130.4
RADIAL 100. FT. (30. M)	80	66.1	66.9	68.1	67.6	68.4	70.6	71.4	71.6	71.6	73.9	74.6	76.4	87.4	79.4				126.0
	100	66.9	69.9	68.6	70.1	68.9	70.6	70.6	71.6	72.4	73.6	75.1	75.9	85.9	77.6				125.2
VEHICLE PPG	125	68.9	69.2	69.9	71.7	68.2	69.4	70.7	71.7	74.7	73.7	74.7	75.2	84.4	76.9				124.6
CONFIG NC-062	180	66.1	64.1	65.6	66.1	66.9	68.4	68.9	69.4	68.6	70.1	72.1	73.1	82.6	75.4				122.2
LOC ATT FAN	280	65.8	66.0	69.3	69.3	69.0	71.3	73.8	73.8	73.8	76.3	77.3	78.3	82.5	78.3				124.9
DATE 06-18-75	250	71.5	71.0	74.8	75.2	75.8	76.7	77.5	78.2	79.0	80.7	82.3	82.5	82.5	80.2				128.8
RUN 74	315	73.0	73.8	75.8	77.2	77.8	79.3	79.5	81.0	82.3	83.3	84.3	84.5	82.3	79.8				130.8
TAPE S3444	480	71.9	72.2	73.4	75.1	78.2	77.7	78.2	79.4	79.7	80.2	81.7	80.9	79.4	76.6				128.6
BAR 29.0 HG	500	71.3	72.8	74.3	75.1	75.3	75.1	77.1	78.3	78.6	79.8	82.8	84.1	80.8	79.3				128.8
(98064. N/M2)	630	71.7	75.0	76.2	79.0	81.0	81.3	81.7	83.8	83.7	84.8	85.7	84.7	82.5	81.7				132.5
TAMB 76. DEG F	880	71.5	75.0	78.3	77.5	79.0	80.1	81.5	80.5	81.5	84.1	86.8	87.8	82.3	81.5				132.4
(298. DEG K)	1000	71.8	73.2	74.6	77.7	77.6	78.3	79.8	80.8	81.8	85.0	85.8	84.4	80.8	79.5				131.5
THET 73. DEG F	1250	71.0	71.5	74.2	76.3	76.9	77.9	79.5	80.4	82.2	85.6	87.0	85.8	81.5	80.0				132.0
(296. DEG K)	1600	68.1	68.6	69.9	71.9	73.3	74.3	74.9	76.7	78.3	82.0	84.3	83.1	79.0	76.4				128.0
HACT D. GM/M3	2000	67.5	67.3	69.0	70.2	72.3	72.9	74.0	77.6	76.1	79.1	83.1	79.7	77.1	75.7				127.2
(. KG/M3)	2500	64.0	66.7	68.0	69.2	71.9	70.6	72.8	74.1	75.1	77.6	81.8	78.1	76.6	74.7				125.9
NFA 7084. RPM	3150	59.4	62.7	63.9	65.4	67.8	67.7	67.8	69.6	71.6	75.3	77.6	76.6	72.3	69.1				122.5
(742. RAD/SEC)	4000	64.4	62.2	64.1	66.1	67.9	67.6	67.6	69.8	69.8	72.0	75.6	73.8	70.3	68.1				121.0
NFK 6971. RPM	5000	65.9	67.3	67.6	68.8	68.5	70.9	71.5	74.3	78.5	84.0	81.5	81.0	76.3	73.2				128.4
(730. RAD/SEC)	6300	64.9	64.8	64.4	66.8	68.3	71.3	69.9	74.2	76.8	78.7	83.3	84.3	77.8	73.1				128.6
NFD 10828. RPM	8000	63.9	63.8	65.4	67.3	67.3	71.0	71.2	74.1	76.5	80.4	83.6	82.8	76.5	72.1				129.0
(1113. RAD/SEC)	10000	64.4	65.3	64.6	67.7	69.1	73.5	72.6	76.6	80.5	82.6	84.7	85.3	78.3	74.2				131.9
NO. OF BLADES 44	12500	63.3	64.2	63.7	66.1	69.2	74.3	73.7	77.8	80.4	83.9	85.3	85.9	77.9	73.9				133.8
FAN TIP SPEED	16000	62.2	62.7	61.9	65.5	68.1	74.0	72.7	78.0	80.2	83.5	84.0	87.3	76.4	73.5				135.7
FT/SEC	20000	57.6	59.5	59.0	61.4	64.1	68.6	67.8	73.3	73.4	77.7	78.4	82.9	71.9	70.8				133.2
OVERALL MEASURED																			
OVERALL CALCULATED		83.0	84.2	86.1	87.3	91.1	89.3	91.0	91.7	92.8	95.4	97.0	97.1	96.7	92.1				144.3
PND8		92.3	93.4	94.9	96.1	98.1	98.2	99.4	101.2	103.0	106.5	107.4	107.3	104.3	101.1				

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL	
	FREQ. (0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(3.0)	(3.0)		(3.0)
50	72.3	71.1	72.1	71.6	78.1	70.6	74.6	72.3	72.6	74.3	76.1	77.1	91.6	81.3				129.5
63	78.5	70.3	74.3	69.8	87.5	70.0	82.8	71.8	70.8	72.3	73.5	76.8	90.8	80.5				131.1
RADIAL 130. FT. (30.4)	80	88.1	67.9	68.4	68.4	70.1	70.4	71.1	71.1	72.6	74.4	75.6	89.9	78.4				127.5
VEHICLE PPG	100	67.6	69.9	69.6	72.1	68.1	70.4	70.4	71.6	71.6	72.9	75.1	75.6	88.4	78.1			126.7
CONFIG NC-062	125	68.7	68.4	70.9	74.2	67.2	68.4	70.9	71.7	72.2	72.4	73.9	73.2	87.2	77.4			125.8
LOC ATT FAN	160	65.6	64.6	65.4	65.9	66.6	67.4	68.4	68.6	67.1	69.1	71.1	71.9	85.1	75.9			123.4
DATE 06-18-75	200	65.5	65.5	68.5	68.3	68.5	70.5	71.5	72.3	73.5	75.8	76.5	77.3	84.3	77.5			124.9
RUN 75	250	70.3	70.5	74.0	74.0	74.0	75.5	75.8	77.0	78.0	79.7	81.0	81.5	84.8	79.2			128.0
TAPE S3444	315	72.5	73.0	74.3	76.5	77.0	78.5	78.0	80.5	80.3	82.3	84.0	83.2	83.3	79.3			130.0
BAR 29.0 HG	400	70.9	71.7	72.7	75.9	77.2	77.2	78.2	79.4	77.7	79.2	80.4	80.6	80.2	75.6			128.0
(98064. N/M2)	500	70.3	72.3	72.3	73.6	73.6	74.8	75.1	77.2	77.1	78.3	81.6	82.8	80.6	78.1			127.7
YAW 76. DEG F	630	71.7	73.7	75.2	78.2	79.0	79.8	80.2	82.5	81.5	83.3	85.0	85.2	81.7	81.2			131.4
(298. DEG K)	800	70.8	72.0	73.3	77.0	76.5	61.1	81.0	82.3	78.8	83.6	83.5	85.3	82.0	79.8			131.1
THET 73. DEG F	1000	71.1	72.2	73.6	76.2	76.9	77.5	79.3	80.8	81.6	83.8	84.8	83.2	79.3	78.5			130.6
(296. DEG K)	1250	72.7	72.0	73.7	76.8	76.7	77.6	77.7	80.6	81.5	85.1	86.0	85.0	81.5	79.8			131.4
MACT 0. GM/M3	1600	68.6	67.9	69.4	72.4	72.3	73.5	74.4	76.7	77.0	81.0	82.8	82.9	78.3	75.6			128.0
(. KG/M3)	2000	66.8	66.5	69.0	71.0	71.3	72.9	73.0	76.1	75.4	78.1	82.4	80.5	77.1	75.0			128.7
NFA 6964. RPH	2500	64.0	65.2	68.7	68.9	71.6	71.4	72.8	74.6	74.6	77.3	80.6	78.4	76.3	72.7			125.4
(729. RAD/SEC)	3150	58.9	62.5	63.1	64.9	66.3	68.7	66.8	69.4	71.3	74.3	76.6	77.1	72.6	68.1			122.1
NFK 6853. RPH	4000	64.1	62.0	63.9	65.3	67.4	68.1	66.8	69.3	69.6	71.8	75.3	74.0	70.1	67.8			120.8
(717. RAD/SEC)	5000	65.7	67.0	67.6	68.5	68.3	70.4	72.5	74.3	78.3	83.5	80.5	81.2	75.8	72.5			128.0
NFD 10628. RPH	6300	64.6	64.6	63.7	66.0	67.5	70.8	69.2	73.7	76.3	77.7	82.8	84.8	77.3	72.4			128.4
(1113. RAD/SEC)	8000	63.9	63.3	64.7	68.3	67.1	70.2	71.2	74.1	76.2	79.6	83.1	84.0	76.0	71.6			129.0
NO. OF BLADES 44	10000	64.7	64.6	64.1	66.7	65.6	73.5	72.9	76.6	80.0	81.9	85.0	86.1	78.5	73.2			132.0
FAN TIP SPEED	12500	62.8	63.7	62.9	65.9	68.2	74.1	73.4	77.1	79.6	82.9	85.3	86.2	78.1	73.2			133.4
FT/SEC	16000	61.7	62.5	61.6	65.0	67.6	73.2	72.7	77.0	78.9	82.8	83.5	87.3	76.7	72.7			135.2
OVERALL MEASURED	20000	58.1	59.0	58.5	60.9	63.9	68.3	67.6	72.6	72.7	76.9	78.1	83.2	71.9	70.3			133.0
OVERALL CALCULATED		83.0	83.5	85.0	86.9	90.5	88.9	90.1	91.3	91.6	94.5	96.1	96.8	98.5	91.5			144.0
PNDB		92.1	92.9	94.4	95.8	97.4	98.0	98.9	100.7	102.3	105.8	106.6	107.3	104.6	100.2			



SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)		0. (0.)
FREQ. 50	70.8	69.3	70.6	70.6	77.8	71.3	74.3	70.8	70.8	73.1	74.6	76.3	88.8	79.3				127.3
63	68.0	67.3	74.5	68.0	87.5	70.0	83.3	71.0	69.3	70.8	72.5	75.8	88.3	78.0				130.2
RADIAL 100. FT. (30. M)	80	65.1	64.9	66.9	66.6	67.6	69.9	69.4	69.9	69.1	71.1	72.9	74.4	87.1	76.6			125.1
100	68.1	68.4	71.4	73.9	71.1	70.6	70.6	71.9	69.1	71.9	75.4	74.4	86.1	74.9				125.2
VEHICLE PPG	125	66.4	66.4	69.4	72.4	69.9	68.2	68.9	70.2	67.2	70.2	73.2	70.7	84.4	72.4			123.4
CONFIG NC-062	180	65.1	63.4	64.6	65.1	65.4	66.4	67.4	67.4	65.6	67.9	69.6	70.9	83.6	72.1			121.9
LCC ATT FAN	200	65.0	65.8	68.5	68.3	69.8	71.3	72.8	71.8	74.3	75.5	76.5	76.3	82.3	76.3			124.2
DATE 66-18-75	250	70.0	69.8	72.8	72.7	73.5	74.7	75.3	76.0	77.0	78.2	80.0	80.7	82.0	78.2			128.9
RUN 76	315	71.8	72.3	74.0	76.2	76.0	77.3	78.0	80.5	79.5	80.8	82.0	83.5	82.0	78.0			129.2
TAPE S3444	400	70.7	70.7	72.4	74.9	75.9	75.4	76.2	77.2	75.9	77.4	78.9	88.1	79.2	74.6			126.5
BAR 29.0 HG	500	69.3	70.6	71.3	72.1	72.1	73.1	73.6	76.3	76.6	77.3	80.6	81.1	78.6	76.8			126.3
(98064. N/M2)	630	70.0	71.5	73.7	77.0	76.5	78.3	78.5	82.0	80.0	82.3	84.5	85.0	80.5	78.5			130.4
TAMB 76. DEG F	800	71.0	71.0	73.5	75.0	75.0	76.6	78.5	78.8	78.0	81.8	82.3	84.6	79.0	76.8			129.2
(298. DEG K)	1000	70.6	71.2	72.6	75.2	76.1	76.3	77.8	79.3	80.1	83.6	83.6	82.9	79.1	77.5			129.6
TLET 73. DEG F	1250	68.7	71.3	72.2	75.5	75.2	75.6	77.2	79.9	79.7	83.9	83.5	84.0	79.0	78.0			129.9
(296. DEG K)	1600	65.9	66.9	68.4	71.1	71.3	72.0	73.4	75.2	74.8	79.0	80.5	81.6	76.5	74.1			126.3
WACT 6. GM/MS	2000	66.3	66.3	67.5	68.7	70.1	70.7	72.5	75.1	73.6	76.6	80.9	79.2	75.6	75.7			125.4
(. KG/MS)	2500	62.5	64.7	67.0	68.9	71.6	69.6	72.3	73.3	73.8	75.8	79.3	76.9	75.1	71.9			124.2
NFA 6815. RPM	3150	58.1	61.7	62.9	64.1	65.3	66.4	65.6	68.4	69.8	73.6	76.1	76.1	71.3	66.6			121.2
(714. RAD/SEC)	4000	63.1	61.0	62.9	64.8	65.6	66.4	66.1	68.3	68.8	71.0	73.3	73.5	69.3	66.3			119.7
NFK 6706. RPM	5000	65.4	65.8	66.6	69.0	67.5	69.4	70.7	73.0	76.8	82.2	79.0	80.7	75.0	71.5			126.9
(702. RAD/SEC)	6300	63.4	63.8	62.9	65.3	66.5	69.5	68.2	72.4	74.8	76.5	81.3	83.3	76.6	71.1			127.0
NFD 10026. RPM	8000	63.1	62.6	63.4	66.0	65.8	69.5	70.0	73.3	75.2	78.6	82.3	83.0	75.5	70.3			128.1
(1113. RAD/SEC)	10000	63.4	64.1	62.9	66.7	67.6	72.7	70.6	75.8	78.0	86.6	84.2	86.1	77.8	72.5			131.4
NO. OF BLADES 44	12500	62.1	62.4	62.7	65.6	67.7	73.3	72.4	76.8	78.9	82.4	84.5	86.2	77.6	72.2			133.1
FAN TIP SPEED	16000	60.7	61.7	60.9	64.2	66.0	72.5	71.2	76.5	77.7	81.5	82.7	87.5	75.9	71.7			134.8
FT/SEC	20000	57.3	58.5	58.6	60.4	63.9	67.6	66.1	72.1	71.4	75.0	77.4	83.2	71.6	68.1			132.6
OVERALL MEASURED																		
OVERALL CALCULATED		81.8	82.2	84.3	86.0	91.0	87.3	80.3	90.0	90.4	93.3	94.9	96.3	96.3	89.7			143.0
PND8		91.2	91.7	93.3	95.2	96.4	96.4	98.8	99.5	100.9	104.5	105.2	106.3	103.2	99.2			

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PNL	
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)		0. (0.)
	50	70.1	68.1	70.3	69.6	77.3	68.3	73.8	70.1	69.3	72.6	74.1	75.3	90.1	78.3				127.9
	63	67.3	66.0	74.5	65.5	87.5	66.5	83.0	69.5	67.8	69.3	70.8	74.5	89.3	75.5				130.4
RADIAL 100. FT. (30. M)	80	64.1	63.1	66.1	65.6	67.1	68.1	68.1	68.4	68.4	69.9	71.9	73.1	87.9	75.6				125.4
VEHICLE PPG	100	71.6	69.6	71.1	73.6	72.9	73.1	71.9	70.4	70.9	70.1	73.6	75.9	86.6	74.1				125.6
CONFIG NC-062	125	64.9	62.4	65.7	66.2	65.9	65.7	66.2	65.9	66.2	67.9	68.7	69.7	85.2	72.7				122.9
LOC ATT FAN	150	64.4	62.9	64.1	64.4	64.9	65.4	66.6	66.4	64.6	66.4	68.9	69.6	83.4	71.9				121.5
DATE 06-18-75	200	65.3	63.8	66.8	66.3	67.5	69.3	71.0	70.5	71.0	73.8	76.3	76.8	82.3	75.3				123.4
RUN 77	250	69.8	69.0	72.8	72.0	72.3	73.7	74.0	75.0	75.3	77.0	79.5	80.2	82.0	77.5				126.1
TAPE S3444	315	71.5	71.0	74.5	76.2	74.8	76.5	77.5	78.0	79.5	80.0	81.5	83.0	82.5	78.5				128.6
BAR 29.0 HG	400	69.9	69.9	70.9	74.1	75.7	74.7	75.9	76.2	75.2	76.9	78.2	78.9	78.7	73.4				125.8
(98064. N/M2)	500	69.6	69.8	71.6	72.3	72.1	71.3	73.3	75.6	74.8	77.8	79.8	82.6	78.8	77.8				126.3
TAMB 76. DEG F	630	69.7	71.2	72.2	74.7	77.8	76.5	77.5	79.5	79.0	81.3	82.5	83.2	79.7	78.0				129.0
(298. DEG K)	800	69.5	71.0	71.5	73.8	76.0	73.8	76.3	77.1	76.3	80.8	82.8	82.8	78.8	76.8				128.1
THET 73. DEG F	1000	69.8	70.7	72.3	75.2	75.6	75.5	77.3	78.8	79.1	81.8	83.3	83.2	78.1	77.0				129.0
(296. DEG K)	1250	69.2	69.3	71.2	74.0	74.2	74.1	76.0	77.4	79.2	82.1	83.0	83.3	78.5	76.5				128.8
HACT 0. GM/M3	1600	65.1	65.1	66.6	69.9	71.3	70.5	72.6	73.7	74.8	78.0	80.5	81.1	75.8	73.1				125.6
(. KG/M3)	2000	65.3	64.9	65.8	67.7	68.8	69.4	71.3	73.6	72.6	75.4	80.1	79.5	74.4	72.2				124.4
NFA 6465. RPM	2500	61.7	63.5	65.0	66.4	68.4	67.6	69.8	70.8	72.1	74.6	78.3	77.4	73.3	78.4				123.0
( 677. RAD/SEC)	3150	57.4	60.2	62.1	62.7	64.8	64.2	65.1	66.6	69.1	73.1	74.8	76.4	70.8	66.4				120.5
NFK 6362. RPM	4000	61.6	59.5	62.1	64.1	65.6	65.1	65.3	66.8	68.6	71.3	73.1	73.5	69.1	65.8				119.4
( 686. RAD/SEC)	5000	64.2	64.0	66.6	67.5	67.5	68.1	69.7	71.3	75.8	81.0	77.7	80.5	74.8	71.2				126.0
NFD 10628. RPM	6300	63.6	63.1	62.4	64.0	65.5	68.0	67.4	71.2	74.1	76.2	80.8	83.5	76.8	70.6				126.8
(1113. RAD/SEC)	8000	62.6	62.3	63.2	64.3	65.3	67.7	69.2	72.1	74.2	77.9	81.6	82.8	75.5	70.1				127.5
NO. OF BLADES 44	10000	62.9	63.1	62.6	64.5	68.8	70.7	70.6	74.3	77.5	79.4	83.0	85.1	77.5	71.5				130.3
FAW TIP SPEED	12500	61.6	62.2	61.4	63.9	66.2	72.1	71.7	75.1	78.4	81.4	83.8	85.7	77.1	70.9				132.3
FT/SEC	16000	59.7	61.2	59.9	62.7	65.8	71.0	70.4	74.8	76.7	80.5	81.7	86.0	75.2	70.7				133.5
OVERALL MEASURED	20000	57.1	59.0	57.5	58.9	62.9	66.1	65.6	70.1	70.4	74.7	76.1	81.7	70.1	66.6				131.2
OVERALL CALCULATED		81.5	81.3	83.4	84.9	89.8	85.9	88.5	98.5	89.4	92.2	94.1	95.6	96.8	88.9				142.2
PNDB		90.5	90.4	92.5	93.8	95.3	94.9	96.6	97.9	99.9	103.5	104.5	106.1	103.1	97.9				

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)																PWL	
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
FREQ.	30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0.	0.	0.	
50	70.8	69.1	71.1	70.6	77.6	68.8	74.3	70.3	70.1	72.3	74.3	75.3	88.8	77.8				127.1
63	67.0	67.0	74.5	66.0	87.3	66.8	83.3	69.3	66.8	69.0	70.3	74.5	88.5	74.8				130.0
RADIAL 100. FT. ( 30. FT.)	80	64.1	64.1	65.9	65.4	67.1	67.9	67.9	67.4	67.1	69.9	70.9	72.1	86.6	74.4			124.3
VEHICLE PPG	100	71.4	68.6	70.6	72.9	71.4	72.9	70.6	70.4	70.6	71.4	72.6	75.4	89.9	73.1			125.0
CONFIG NC-062	125	63.9	62.2	65.2	65.4	64.9	64.7	65.2	65.7	67.9	68.2	69.2	69.2	83.9	70.7			121.8
LOC ATT FAN	180	64.1	62.4	64.1	63.9	64.4	65.4	66.4	65.4	63.9	65.6	67.9	68.9	82.4	70.1			120.6
DATE 06-18-75	200	64.0	63.0	66.0	65.5	65.0	67.5	70.5	70.3	69.8	72.8	74.0	75.5	81.5	73.8			122.3
RUN 78	250	68.5	67.5	71.5	71.2	71.3	72.7	73.8	74.0	74.5	76.2	78.0	79.0	81.3	76.2			125.1
TAPE S3445	315	71.5	71.3	73.8	76.5	75.8	76.0	76.8	78.8	79.0	80.0	81.8	82.5	81.5	78.3			128.5
BAR 29.0 HG	400	70.2	69.7	71.7	74.4	75.9	74.7	75.2	75.4	74.7	76.7	78.2	79.1	77.9	73.6			125.6
(98064. N/M2)	500	70.3	70.3	71.3	72.1	71.3	72.6	73.8	75.6	74.3	76.6	78.6	80.6	78.1	76.1			125.4
TAMB 76. DEG F	630	68.7	70.2	72.2	74.0	76.2	75.8	77.2	78.5	78.5	81.3	82.2	83.5	80.2	77.7			128.7
(298. DEG K)	800	68.0	69.3	71.3	73.5	74.0	73.8	75.0	76.1	75.8	79.6	80.8	81.5	78.0	75.5			126.9
THET 73. DEG F	1000	69.3	69.5	71.6	74.5	74.4	74.8	76.6	77.0	78.1	81.5	82.1	82.7	78.6	76.0			128.2
(296. DEG K)	1250	68.2	68.8	70.5	72.5	73.2	73.9	75.5	76.4	78.2	81.6	82.5	83.5	78.0	75.8			128.3
HACT 0. GM/M3	1600	64.9	64.6	66.4	68.9	69.6	70.5	71.6	73.0	73.5	77.7	79.5	80.6	75.5	72.1			125.0
(. KG/M3)	2000	64.0	63.3	64.0	67.0	68.3	69.2	70.0	72.4	71.4	74.4	78.9	79.0	73.9	71.2			123.5
NFA 635. RPM	2500	61.2	62.2	64.7	65.7	66.1	67.4	69.3	71.3	71.3	74.3	77.6	77.4	72.3	69.9			122.6
( 665. RAD/SEC)	3150	56.9	59.5	60.9	62.7	63.8	64.2	63.8	66.1	68.6	72.3	74.6	76.9	71.3	66.4			120.4
NFK 6248. RPM	4000	61.4	59.0	61.4	63.8	64.6	64.4	64.6	66.6	67.8	71.5	72.8	73.5	68.3	65.8			119.1
( 654. RAD/SEC)	5000	63.7	63.0	65.1	67.3	68.5	67.4	68.5	70.5	74.0	80.0	76.7	79.5	73.8	70.0			124.9
NFD 10628. RPM	6300	63.1	62.6	61.4	63.8	65.3	68.0	66.4	71.2	73.1	75.5	80.3	83.3	76.6	70.1			126.4
(1113. RAD/SEC)	8000	61.6	61.1	62.2	64.0	64.3	68.0	68.5	71.3	73.7	77.9	80.8	82.5	74.8	69.3			127.1
NO. OF BLADES 44	10000	61.7	62.1	61.6	64.5	65.6	70.5	69.4	73.8	76.5	79.1	82.5	84.8	76.8	70.5			129.8
FAN 119 SPEED	12500	60.6	60.9	61.2	63.6	65.9	71.3	70.9	74.3	77.4	80.6	83.5	85.4	76.6	70.7			131.9
FT/SEC	16000	59.2	61.2	60.1	63.0	65.3	70.2	69.2	73.8	75.4	80.0	80.7	85.8	74.7	70.0			133.0
OVERALL MEASURED	20000	55.6	57.5	57.5	58.9	61.6	65.1	65.1	69.6	69.4	74.2	75.4	80.7	69.6	65.3			130.3
OVERALL CALCULATED		81.2	80.8	83.2	84.5	89.5	85.5	88.2	87.8	88.6	91.7	93.4	95.2	95.9	88.1			141.6
PND8		90.0	89.6	91.6	93.4	94.7	94.5	95.9	97.4	98.7	102.8	103.8	105.8	102.6	97.0			

SPL INPUT AT STD	FREQ.	MODEL SOUND PRESSURE LEVELS (50, 70 PERCENT REL. HUM. DAY)																	
		ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
	50	71.3	70.1	71.6	71.3	77.6	70.8	74.8	71.8	72.3	74.8	75.6	77.3	89.6	80.6				120.1
	63	68.3	68.0	74.5	68.5	87.3	70.3	83.3	71.3	70.3	72.8	73.8	76.5	88.5	78.5				130.3
RADIAL 100. FT.	80	66.1	65.9	67.4	67.1	68.6	70.6	70.4	70.4	70.9	72.6	74.1	75.0	87.4	78.1				129.7
(30. 4)	100	67.1	71.4	68.9	69.6	68.9	70.1	70.1	70.6	71.6	73.1	74.6	75.9	86.6	76.4				129.4
VEHICLE PPG	125	69.9	70.7	70.7	71.2	67.9	69.4	70.4	71.4	73.9	73.4	73.2	74.9	85.2	74.9				124.7
CONFIG NC-002	150	65.6	64.1	65.4	65.9	66.1	67.4	68.1	67.9	66.9	68.6	70.6	71.9	82.6	73.4				121.6
LOC ATT FAN	200	65.3	65.0	68.3	68.3	68.8	70.5	72.3	72.3	72.5	74.8	76.3	77.3	82.3	76.3				124.0
DATE 06-18-75	250	70.5	70.3	74.0	74.7	74.5	76.0	77.0	77.5	77.8	80.2	81.0	82.5	82.8	78.7				120.1
RUN 79	315	72.8	72.5	74.8	77.2	77.3	78.3	78.8	79.8	81.0	81.8	84.0	84.5	82.5	78.3				150.1
TAPE S3445	400	72.4	71.9	73.7	75.9	77.7	76.4	78.2	77.7	78.2	79.7	81.2	81.4	79.7	76.1				128.1
BAR 29.0 HG	500	71.1	72.3	73.1	73.8	75.3	74.3	76.8	77.1	77.3	78.6	81.1	82.1	79.8	78.3				127.6
(98004, N/M2)	630	72.5	74.5	75.7	78.7	81.0	80.3	81.0	82.5	82.5	83.8	85.2	85.5	82.2	81.0				131.9
TAMB 76. DEG F	800	74.0	73.8	77.8	78.5	77.5	80.6	80.0	81.1	79.8	83.3	85.5	87.8	81.8	81.5				131.9
(298, DEG K)	1000	72.3	72.0	73.8	76.7	77.4	77.8	79.3	80.0	81.1	84.5	85.3	84.7	80.1	78.7				131.4
TWET 72. DEG F	1250	71.7	71.8	73.7	75.8	76.2	76.6	78.5	79.9	82.0	84.1	86.3	86.3	81.7	78.5				131.0
(293, DEG K)	1600	68.4	67.6	69.1	71.9	72.6	73.3	74.6	76.0	77.3	80.2	82.5	83.1	78.0	74.9				127.8
HACT 2. CM/H3	2000	67.0	66.8	68.3	70.7	72.1	72.2	73.3	76.6	74.6	77.4	82.1	81.2	76.4	74.5				126.6
(. KG/M3)	2500	64.2	65.7	68.0	69.2	72.1	69.9	72.3	74.3	74.6	77.3	80.6	79.1	76.6	72.9				125.5
NFA 7040. RPM	3150	59.4	62.2	63.9	65.6	67.3	67.2	67.1	69.1	70.6	74.6	76.6	77.1	71.8	67.6				122.0
(737, RAD/SEC)	4000	64.1	61.7	63.6	65.6	67.6	67.1	67.1	69.1	69.3	71.8	74.8	74.3	69.8	66.8				120.6
NFK 6927. RPM	5000	65.9	67.5	67.6	68.3	68.3	70.4	72.5	73.8	77.5	83.5	81.0	81.7	75.5	71.7				128.1
(725, RAD/SEC)	6300	64.6	64.6	63.9	66.3	67.8	70.5	69.7	73.4	75.8	78.0	82.8	84.3	77.3	71.4				128.2
NFD 10628. RPM	8000	63.4	63.1	64.4	66.3	67.8	70.2	71.2	73.8	75.7	79.6	82.8	83.3	75.8	71.1				128.6
(1113, RAD/SEC)	10000	63.9	64.6	63.9	67.0	68.6	73.5	72.4	77.1	79.5	81.6	84.7	85.8	78.0	72.0				131.8
NO. OF BLADES 44	12500	62.4	63.2	63.2	66.4	69.2	74.1	74.0	77.3	79.7	82.6	85.1	86.5	77.7	72.2				133.5
FAN TIP SPEED	16000	61.5	63.0	61.9	66.0	67.9	73.8	72.5	77.5	79.8	82.6	83.3	87.1	76.7	72.0				135.1
FT/SEC	20000	56.9	58.8	58.3	61.9	64.2	68.4	67.6	72.4	72.0	77.0	77.9	82.5	71.2	67.4				132.6
OVERALL MEASURED																			
OVERALL CALCULATED		83.3	83.6	85.6	87.1	91.7	88.7	90.4	90.9	91.8	94.4	96.2	97.3	96.9	93.9				143.9
PND8		92.4	93.1	94.4	95.9	97.9	97.6	98.9	100.4	102.0	105.8	106.6	107.5	104.1	99.7				

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)															PHL		
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.		0.	0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
	ANGLES FROM INLET	IN DEGREES (AND RADIANS)																
50	71.3	71.1	72.6	72.1	76.1	70.3	74.6	71.8	71.3	73.6	75.3	77.3	90.1	80.1				128.4
63	68.3	69.5	75.3	69.5	86.8	69.0	83.3	71.5	69.5	71.8	73.5	76.0	89.5	78.0				130.4
RADIAL 100. FT. (30. M)	80	66.4	67.4	69.1	68.6	68.6	69.9	70.4	69.6	69.9	72.4	74.1	75.6	88.1	77.6			126.1
VEHICLE PPB	180	67.9	70.9	70.4	72.4	68.6	69.8	70.6	70.6	71.1	72.6	74.9	75.4	86.9	76.1			129.6
CONFIG NC-062	125	68.9	68.4	70.7	73.9	67.2	67.4	70.9	70.9	71.9	72.2	73.9	72.7	85.2	74.2			124.4
LOC ATT FAN	200	65.4	64.9	65.6	65.9	65.9	66.9	67.9	67.6	66.6	68.6	70.6	71.4	83.6	72.6			122.2
DATE 06-18-75	200	65.0	65.5	68.8	68.3	69.0	71.3	72.3	72.5	73.5	75.5	76.0	76.8	82.8	76.3			124.3
RUN 80	250	69.8	70.5	74.0	74.0	74.0	75.5	76.5	77.2	78.0	80.0	80.8	81.2	82.8	78.5			127.8
TAPE S3445	319	72.3	73.3	75.3	76.7	77.8	78.0	78.3	80.3	80.5	82.8	84.0	83.7	82.5	78.5			130.1
BAR 29.0 HG	400	71.9	71.9	73.7	75.6	77.4	76.4	77.2	77.7	76.4	78.2	80.4	80.9	79.9	75.6			127.6
(98064. N/M2)	500	70.8	72.3	72.6	74.1	74.3	74.6	76.1	77.6	77.1	78.3	80.8	82.3	79.3	78.3			127.4
TANG 76. DEG F	630	71.5	73.2	74.7	79.0	78.5	79.3	80.7	82.0	81.2	83.5	85.0	86.0	82.2	80.7			131.5
(298. DEG K)	800	70.8	71.8	75.3	77.0	76.5	78.6	81.0	81.8	80.5	84.1	83.3	84.5	80.5	80.3			130.8
THET 72. DEG F	1000	71.8	71.7	73.6	76.5	77.1	77.0	78.6	79.5	80.6	84.0	84.3	84.2	80.1	78.0			130.4
(299. DEG K)	1250	70.7	71.6	74.2	77.5	77.2	76.4	78.5	80.6	81.7	84.4	85.2	85.5	81.5	79.8			131.3
HACT C. GH/M3	1600	67.4	67.4	69.1	72.4	72.6	72.8	74.6	76.0	77.5	80.2	82.3	82.6	77.8	74.9			127.6
(. KG/M3)	2000	67.5	66.0	68.8	70.7	71.8	71.4	72.8	75.6	74.9	77.6	81.9	81.0	78.9	74.2			126.5
NFA 6960. RPM	2500	63.5	65.7	67.7	69.4	71.9	69.9	72.3	74.1	75.1	76.8	80.3	78.6	76.6	72.4			125.3
(729. RAD/SEC)	3150	58.4	62.5	63.9	64.9	66.6	66.7	66.3	68.9	70.6	74.1	75.8	76.4	72.3	67.4			121.5
NFK 6849. RPM	4000	63.9	61.7	63.6	65.3	67.1	66.6	66.3	68.8	69.1	71.5	74.3	74.0	69.8	67.1			120.3
(717. RAD/SEC)	5000	65.9	67.3	67.6	68.8	68.3	69.6	71.7	73.8	77.8	83.2	80.2	81.5	75.8	72.0			127.8
NFD 10628. RPM	6300	64.1	64.3	63.7	66.3	67.3	70.0	68.9	72.9	75.3	77.7	81.8	84.3	77.3	70.9			127.8
(1113. RAD/SEC)	8000	63.1	63.1	64.2	66.0	67.1	70.0	70.7	73.8	75.0	79.6	82.1	83.3	75.8	70.6			128.3
NO. OF BLADES 44	10000	63.9	64.3	63.6	66.7	68.6	72.7	71.6	76.3	79.0	81.6	84.7	85.5	78.0	72.2			131.6
FAN TIP SPEED 16000	12500	62.1	63.2	63.0	65.9	68.5	73.9	72.5	76.8	79.2	82.6	84.8	86.0	77.7	71.4			133.2
FT/SEC 20000	20000	56.6	58.6	58.6	61.2	63.4	68.1	66.9	72.4	71.5	76.5	77.4	82.2	70.9	67.6			132.2
OVERALL MEASURED																		
OVERALL CALCULATED		82.6	83.4	85.4	87.2	90.2	88.0	90.2	90.8	91.4	94.4	95.7	96.7	97.3	90.6			143.6
PNDB		92.0	92.9	94.2	96.1	97.5	96.9	98.7	100.2	101.9	105.6	106.0	107.1	104.3	99.4			

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL		
	FREQ.	30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0. )		0. (0. )	0. (0. )
50	71.6	70.6	72.1	71.6	77.3	70.3	74.3	71.1	71.1	73.6	75.6	77.6	79.0	80.1	80.1				128.3
83	68.8	68.3	74.5	67.8	87.3	68.8	82.8	78.8	69.8	71.3	72.5	75.8	89.3	77.3					130.3
RADIAL 100. FT. (30. 4)	80	66.1	65.6	67.4	67.1	67.6	69.9	70.1	69.6	69.1	71.9	73.4	75.1	88.1	77.1				126.0
VEHICLE PPG	100	68.9	69.4	71.4	73.6	71.4	70.6	70.6	71.6	69.6	72.9	75.6	75.9	87.1	76.4				126.0
CONFIG NC-062	125	67.2	65.7	69.2	72.2	70.2	67.7	69.2	70.2	67.7	71.2	73.7	71.2	85.4	72.9				124.1
LOC AYT FAN	160	65.6	63.9	69.4	65.1	65.6	66.9	67.9	67.4	65.9	68.1	69.6	70.4	83.6	71.6				122.0
DATE 06-18-75	200	65.5	63.5	69.0	68.8	69.5	70.5	72.8	71.8	73.5	75.3	76.0	76.5	82.5	75.8				124.1
RUN 01	250	70.8	70.5	73.8	73.7	73.8	75.0	76.0	76.2	76.8	78.7	80.5	81.5	82.8	78.2				127.4
TAPE S3445	315	73.0	73.0	75.3	77.2	77.0	78.3	79.3	81.5	80.5	82.0	83.5	85.2	83.8	79.0				130.5
BAR 29.0 HG	400	71.7	71.7	73.2	75.4	77.2	76.2	77.2	78.4	77.2	79.2	80.9	81.9	80.2	76.1				127.9
(98064. N/M2)	500	70.6	71.3	72.1	73.3	72.8	73.8	74.3	76.6	77.3	77.6	80.1	81.8	79.1	78.3				126.8
TAMB 76. DEG F	630	71.0	72.7	75.0	77.7	77.7	79.0	79.7	82.5	81.7	83.5	85.2	86.5	82.2	79.2				151.6
(298. DEG K)	800	73.0	71.8	74.0	75.5	75.8	77.1	78.3	78.8	78.8	82.8	83.5	84.8	79.8	77.5				129.8
THET 72. DEG F	1000	71.8	72.0	73.6	76.2	76.9	78.8	78.8	80.8	80.8	84.8	84.6	84.9	80.1	78.2				130.7
(295. DEG K)	1250	70.5	72.0	73.0	75.5	75.9	76.4	78.0	80.1	80.5	84.1	84.7	85.8	80.0	78.5				130.8
HACT 0. GM/MS	1600	67.1	66.9	68.9	70.9	72.1	72.5	73.6	75.5	75.8	79.5	81.5	82.9	77.3	74.9				127.1
(. KG/MS)	2000	66.8	66.0	68.3	69.0	71.8	71.2	72.5	74.9	74.6	76.6	81.4	80.2	75.9	74.7				125.8
NFA 6813. RPM	2500	63.5	64.2	66.7	68.2	71.9	69.9	72.3	73.3	73.3	75.8	79.3	78.6	74.8	71.9				124.4
( 713. RAD/SEC)	3150	58.1	61.7	63.1	63.9	65.3	65.9	66.1	68.4	70.1	73.6	75.1	76.6	71.3	67.1				121.1
NFK 6764. RPM	4000	63.4	61.0	63.1	64.8	66.4	65.9	65.8	68.1	68.6	71.3	73.8	74.5	69.3	66.6				120.0
( 702. RAD/SEC)	5000	65.7	66.0	67.3	69.0	67.8	69.1	70.7	73.3	77.3	82.5	79.5	81.5	76.0	71.7				127.3
NFD 10628. RPM	6300	63.9	64.3	62.9	65.5	66.8	69.5	68.7	72.4	74.8	77.5	81.5	84.3	77.1	71.1				127.6
(1113. RAD/SEC)	8000	63.1	62.6	63.9	66.0	66.6	69.2	70.0	73.3	75.5	79.4	81.8	83.8	75.8	70.6				128.4
NO. OF BLADES 44	10000	63.4	64.1	63.6	66.0	67.6	72.5	71.4	76.1	79.2	80.9	84.0	86.0	78.3	72.2				131.4
FAN TIP SPEED	12500	62.1	62.7	63.0	65.4	67.7	73.1	72.7	76.6	78.9	82.4	84.3	86.0	77.2	71.9				132.9
FT/SEC	16000	60.7	62.5	61.4	64.5	66.9	72.3	71.5	76.8	78.2	81.8	82.8	87.1	76.0	71.5				134.7
OVERALL MEASURED	20000	56.9	58.6	57.6	60.2	62.9	67.4	66.9	71.9	71.2	76.5	77.4	82.5	70.9	67.1				132.3
OVERALL CALCULATED		82.8	82.9	85.0	86.4	90.2	87.8	89.6	90.6	91.0	93.9	95.4	97.0	97.2	90.1				143.4
PNDR		91.9	92.1	93.8	95.4	96.8	96.7	98.3	98.3	99.7	101.3	105.0	105.6	107.3	103.8				

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)													PWL				
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	160.	0.	0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	70.1	68.8	70.3	69.8	77.6	68.6	74.1	70.3	70.1	72.3	74.1	75.6	90.3	78.1				128.1
63	66.8	66.5	74.0	66.0	87.0	86.8	82.8	70.0	67.3	69.5	70.8	74.5	89.3	75.0				130.1
RADIAL 100. FT.	80	64.4	64.1	65.9	65.4	66.6	68.4	68.6	68.1	68.4	70.1	71.1	72.6	88.6	74.6			125.9
(30. H)	100	71.9	69.9	71.4	72.9	72.9	72.9	71.1	70.1	71.1	70.4	73.6	75.9	87.4	73.9			126.0
VEHICLE PPG	125	64.4	63.2	65.4	65.9	65.4	65.2	65.7	65.9	65.7	68.4	69.4	69.9	86.2	70.7			123.7
CONFIG NC#062	160	64.6	62.9	63.9	64.4	64.6	65.6	66.9	66.1	64.4	66.1	68.4	69.4	84.4	69.4			122.1
LOC ATT FAN	200	64.8	63.8	66.5	66.5	67.3	68.8	71.0	70.3	70.3	73.3	75.5	75.8	83.0	73.8			123.3
DATE 06-18-75	250	69.5	68.8	73.0	72.5	72.9	73.7	74.0	75.0	75.3	77.2	78.8	80.2	82.0	76.7			126.2
RUN 82	315	71.8	71.3	74.5	76.5	75.5	77.3	77.8	78.5	79.5	80.3	81.8	83.0	82.5	79.0			128.9
TAPE SJ445	480	70.4	70.7	71.4	74.4	75.9	75.2	75.7	76.7	75.7	77.7	79.2	80.1	79.7	75.1			126.5
BAR 29.0 HG	500	70.6	70.6	71.6	73.3	72.3	71.8	74.3	76.1	75.1	77.8	78.8	81.8	79.6	78.1			126.3
(90064. N/M2)	630	69.5	71.5	72.5	75.2	77.5	77.0	78.7	80.3	79.5	82.0	83.2	84.7	81.2	78.5			129.8
TAMB 76. DEG F	800	69.5	71.0	72.3	73.3	75.5	74.1	75.3	76.8	76.0	80.6	82.3	81.5	79.0	76.8			127.7
(298. DEG K)	1000	70.1	71.0	72.1	74.7	75.6	75.5	77.1	78.5	78.8	82.0	83.1	84.2	78.8	77.5			129.2
THET 72. DEG F	1250	68.7	69.5	71.0	74.3	74.2	74.1	76.5	77.4	79.0	81.9	83.2	84.5	79.2	77.5			129.1
(295. DEG K)	1600	65.4	65.6	66.6	69.4	70.1	70.5	71.9	73.7	74.8	78.2	80.0	81.1	76.5	73.4			125.6
HACT 0. GH/M3	2000	65.0	63.5	65.3	67.5	68.6	69.2	70.5	73.1	72.1	74.9	79.6	79.5	74.6	72.0			124.1
(. KG/M3)	2500	62.0	63.2	65.0	65.9	68.1	67.4	69.8	71.6	71.8	74.3	77.8	77.9	73.3	70.9			122.9
NFA 6450. RPM	3150	57.1	60.5	61.4	62.9	64.1	64.4	64.8	66.9	68.8	72.6	74.6	76.6	71.3	66.9			120.5
( 675. RAD/SEC)	4000	61.1	59.5	61.6	63.6	65.1	65.1	65.1	67.1	68.3	71.3	73.1	74.0	68.8	66.1			119.4
NFK 6347. RPM	5000	64.4	64.3	66.3	67.5	67.0	67.9	69.2	71.3	75.3	80.7	77.7	80.5	75.3	71.0			125.8
( 665. RAD/SEC)	6300	62.6	62.6	61.7	64.0	65.3	67.8	66.9	71.9	73.3	76.0	80.8	83.3	77.1	70.6			126.6
NFD 15625. RPM	8000	62.1	61.6	62.7	64.5	64.8	67.5	69.0	72.1	73.7	78.4	81.3	82.8	76.0	70.3			127.5
(1113. RAD/SEC)	10000	62.4	62.6	62.1	65.0	65.8	71.0	69.4	74.1	77.0	79.6	83.0	84.5	77.5	71.2			130.0
NC. OF BLADES 44	12500	61.1	61.5	61.5	63.9	67.0	71.9	71.0	74.6	77.9	81.4	83.8	85.2	76.9	70.7			152.1
FAN TIP SPEED	16000	59.2	61.5	59.9	63.3	65.9	70.8	69.7	74.5	76.2	80.1	81.8	85.8	75.0	70.8			133.2
FT/SEC	20000	56.1	58.1	57.3	59.4	61.9	65.6	65.4	69.9	69.5	74.7	75.7	81.5	70.2	66.1			130.9
OVERALL MEASURED																		
OVERALL CALCULATED		81.6	81.6	83.6	84.9	89.6	86.1	88.5	88.6	89.3	92.3	94.0	95.7	97.3	88.9			142.2
PNDB		90.5	90.6	92.3	93.8	95.1	94.9	96.4	98.0	99.6	103.4	104.4	106.1	103.6	97.9			

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)																PWL	
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	70.3	69.1	71.1	70.3	77.6	68.3	74.1	70.1	69.8	72.6	74.1	75.3	90.1	78.3				128.0
63	67.8	67.0	74.5	65.3	87.3	66.3	82.8	69.5	67.0	68.8	70.0	74.0	89.0	75.0				130.1
RADIAL 100. FT. (30. 4)	80	64.6	64.6	66.4	64.6	66.9	68.1	68.1	67.9	67.4	69.6	70.9	72.6	88.1	75.4			125.5
VEHICLE PPG	100	71.9	69.4	70.6	71.9	71.1	72.4	70.9	69.9	70.6	71.4	72.6	75.9	86.6	74.4			125.4
CONFIG NCM002	125	64.7	62.9	65.7	65.4	64.9	64.9	65.4	65.4	65.9	68.2	69.4	69.7	85.7	72.2			123.2
LOC ATY FAN	160	64.9	63.2	64.1	64.4	64.6	65.6	66.9	66.4	64.1	65.9	68.4	69.1	83.6	71.6			121.6
DATE 06-18-75	200	65.3	63.5	66.8	66.3	67.3	68.8	71.3	70.8	70.3	72.8	74.3	76.3	82.8	74.3			123.1
RUN 03	250	69.5	69.3	72.8	72.7	72.5	74.0	74.8	75.5	75.5	77.2	79.0	80.0	82.3	78.0			126.3
TAPE S3445	315	73.0	72.5	75.3	77.5	76.3	76.8	77.5	80.0	79.8	81.0	83.0	84.0	82.8	79.3			129.6
BAR 29.0 HG	480	70.9	70.9	71.9	74.9	76.4	75.4	76.2	77.2	75.7	77.9	79.7	80.6	79.7	75.1			126.8
(98064. N/M2)	500	70.6	71.3	72.3	73.6	72.6	73.6	74.8	76.6	76.1	77.6	80.1	81.8	79.3	77.3			126.7
TAMB 76. DEG F	630	70.0	71.7	73.5	75.7	77.2	77.3	78.0	80.8	80.2	82.5	83.5	85.0	81.5	79.0			130.1
(290. DEG K)	800	69.3	70.0	72.0	74.3	74.8	74.8	75.8	77.1	76.8	80.6	81.8	82.5	79.5	76.5			127.9
THET 72. DEG F	1000	70.3	71.2	72.6	75.2	75.4	75.8	77.1	78.5	78.6	82.3	83.1	83.7	79.1	77.2			129.1
(295. DEG K)	1250	69.8	69.5	71.2	74.3	74.2	74.9	77.0	77.9	79.2	82.4	82.5	84.3	79.2	77.0			129.1
HACT 8. GM/M3	1600	65.1	65.4	66.4	69.1	70.1	70.8	72.1	73.5	74.3	78.5	80.0	81.9	76.3	73.1			125.7
(, KG/M3)	2000	64.8	64.0	64.8	67.5	68.6	68.9	70.3	72.6	72.1	74.6	79.4	80.0	74.1	72.0			124.1
NFA 6340. RPM	2500	61.5	62.0	64.5	66.2	67.9	66.6	69.8	71.6	71.6	74.3	77.6	77.9	73.1	69.9			122.8
(664. RAD/SEC)	3150	56.9	60.2	61.1	62.4	63.8	64.4	64.3	67.1	69.1	72.6	74.3	77.1	71.3	66.9			120.6
NFK 6239. RPM	4000	62.1	59.5	61.9	64.6	65.1	64.9	64.8	67.1	68.1	71.5	73.6	73.8	69.1	66.6			119.5
(653. RAD/SEC)	5000	64.4	63.8	65.3	67.3	66.8	67.9	68.5	70.8	74.8	80.0	77.2	80.2	74.3	70.0			125.3
NFD 10628. RPM	6300	63.6	62.8	61.7	64.3	65.0	68.0	67.2	71.4	73.1	76.0	80.5	83.5	77.1	70.4			126.6
(1113. RAD/SEC)	8000	61.9	61.6	62.4	64.3	64.6	68.0	68.7	71.8	73.7	77.9	81.1	82.8	75.3	69.6			127.3
NO. OF BLADES 44	10000	61.9	62.3	61.9	64.5	65.8	71.0	69.4	74.1	77.0	78.9	82.5	84.8	77.3	71.2			129.9
FAN TIP SPEED	12500	60.6	61.7	61.5	64.1	66.2	71.6	70.7	75.3	77.9	81.4	83.8	85.5	77.2	70.7			132.2
FT/SEC	16000	59.5	61.0	59.9	62.5	64.9	70.3	69.7	74.5	76.8	80.1	81.0	85.6	75.0	70.0			133.0
OVERALL MEASURED	20000	56.1	57.8	56.8	58.9	61.2	65.1	64.6	70.1	69.2	74.5	75.9	80.7	69.7	65.9			130.5
OVERALL CALCULATED		81.9	81.8	83.9	85.3	89.7	86.2	88.5	89.0	89.4	92.3	94.0	95.8	97.0	89.1			142.2
PNDB		98.7	98.4	92.1	93.9	95.0	95.0	96.5	98.0	99.4	103.1	104.3	106.3	103.4	97.6			



SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	72.1	71.3	73.1	72.6	69.8	73.3	74.3	74.6	75.8	77.1	78.3	80.3	81.6	84.1				126.3
63	70.3	70.8	78.0	70.5	70.0	72.3	78.3	74.8	75.3	76.0	77.3	80.0	81.5	83.8				126.6
RADIAL 100. FT. (30. MI)	80	68.6	69.1	69.9	70.1	67.4	72.4	73.1	74.4	75.6	76.6	78.1	80.1	81.1	82.4			125.6
VEHICLE PPM	100	69.2	68.4	70.2	71.2	68.4	73.4	72.7	73.4	74.4	75.7	77.4	79.4	79.4	79.7			124.7
CONFIG NCG071	125	73.5	73.0	71.5	72.5	70.7	72.7	74.7	73.5	78.0	78.0	75.0	80.2	79.0	77.2			125.7
LOC ATT FAN	160	68.4	68.2	68.9	78.2	67.7	70.9	71.2	71.7	72.4	72.7	74.2	76.4	77.4	77.4			122.5
DATE 04-20-75	200	67.5	67.5	69.5	69.0	66.0	71.3	72.2	73.5	74.3	76.3	78.0	80.0	81.3	80.3			125.2
RUN 107	250	72.0	71.8	74.5	74.8	71.8	75.8	77.8	78.3	79.5	81.0	82.8	84.0	84.3	82.8			129.4
TARE A1745	315	74.0	74.5	76.8	77.8	74.5	77.8	79.0	80.8	82.3	82.8	84.5	85.3	84.0	81.3			131.0
BAR 29.0 HG	400	74.9	74.2	77.2	79.9	78.9	78.4	79.7	82.4	83.2	83.7	85.4	86.2	82.7	78.7			131.9
(90030. N/MS)	500	73.6	73.3	73.6	75.3	71.8	74.6	75.6	77.6	78.3	79.3	80.6	83.1	80.6	78.8			127.9
TAMB 86. DEG F	630	73.5	76.5	76.5	79.5	76.2	81.5	82.8	83.7	85.5	85.5	85.5	85.5	83.2	81.0			132.9
(303. DEG K)	800	75.5	78.0	76.3	78.8	77.5	79.5	81.5	84.8	84.5	86.0	85.5	85.0	83.8	80.8			132.9
TWET 74. DEG F	1000	74.5	75.0	76.0	78.8	77.0	78.5	82.8	83.3	85.5	87.0	87.3	85.3	82.8	81.3			133.3
(296. DEG K)	1250	75.3	77.1	76.1	79.3	77.1	79.8	83.1	83.6	87.8	87.3	87.3	87.6	81.8	81.3			134.3
MACT 0. GM/MS	1600	72.7	73.7	72.2	75.2	71.4	75.7	78.7	79.7	79.9	82.4	84.4	82.4	81.7	78.4			129.8
(. KG/MS)	2000	68.6	71.3	69.8	72.8	73.1	73.1	75.8	78.3	78.1	78.6	82.3	80.6	78.6	76.1			127.8
NFA 7618. RPM	2500	69.8	69.5	70.0	72.3	69.8	73.3	75.8	77.0	76.8	79.3	82.5	80.3	78.0	74.3			127.4
(798. RAD/SEC)	3150	66.8	68.1	67.8	68.8	67.8	70.1	78.3	76.8	74.1	77.6	78.8	77.6	74.6	71.6			124.4
NFK 7427. RPM	4000	67.6	65.3	66.8	69.8	67.6	69.6	68.6	72.3	72.3	73.6	77.1	76.6	71.6	69.6			123.0
(778. RAD/SEC)	5000	67.4	67.9	66.4	69.4	67.1	70.6	73.1	76.1	78.4	82.1	80.9	82.6	78.6	73.4			128.2
NFD 8628. RPM	6300	67.4	68.4	67.7	69.2	67.9	71.4	72.9	75.2	77.9	80.4	83.9	83.9	79.7	73.4			129.2
(1113. RAD/SEC)	8000	66.6	64.9	65.9	68.6	67.1	71.1	72.6	75.9	77.9	80.4	82.4	84.1	76.6	72.1			129.4
NO. OF BLADES 44	10000	66.7	66.2	65.7	69.7	68.7	72.9	75.4	77.4	80.4	81.7	84.4	85.7	77.4	73.4			131.8
FAN TIP SPEED	12500	66.3	64.8	65.8	68.5	68.5	72.8	75.3	77.8	80.8	82.8	84.8	87.0	77.5	73.8			133.8
FT/SEC	16000	65.9	63.4	64.4	66.7	67.4	71.7	74.4	76.9	79.7	81.9	83.7	87.7	76.4	72.9			135.4
OVERALL MEASURED	20000	66.0	64.0	61.5	63.0	63.2	68.5	70.8	71.5	73.7	76.2	79.0	83.2	72.2	68.5			133.2
OVERALL CALCULATED		85.6	86.4	87.2	88.9	86.7	89.7	91.6	93.2	95.0	96.1	97.2	98.0	94.8	93.5			144.8
PNDB		95.1	95.9	96.3	98.4	96.5	99.3	101.1	102.9	104.8	106.6	107.9	108.8	104.4	101.9			

MODEL SOUND PRESSURE LEVELS (50, DEG. F; 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
90	76.3	75.8	76.6	76.6	73.1	76.8	77.3	76.3	79.3	80.6	81.8	84.1	86.8	89.6				130.6
63	73.5	74.5	78.5	75.0	73.3	74.3	79.3	78.5	79.5	80.3	81.3	84.5	86.5	89.5				130.6
RADIAL 100. FT. ( 30. M)	80	72.6	74.1	74.1	74.6	71.9	76.6	77.1	78.6	80.1	80.6	82.9	84.6	86.4	88.1			130.4
VEHICLE PFB CONFIG NC071	100	73.4	73.2	74.9	75.2	72.4	76.4	77.2	78.4	79.4	80.2	82.4	84.7	84.7	84.9			129.5
LOC ATT PAN	125	73.2	73.7	74.7	77.0	78.0	80.5	83.2	81.2	80.7	79.7	80.5	85.0	83.2	82.5			130.5
DATE 06-28-75	140	73.7	74.2	76.4	78.9	80.4	82.9	85.7	83.2	81.9	80.2	80.9	86.4	84.4	83.4			132.2
RUN 100	200	76.8	71.8	73.3	73.5	71.0	74.5	76.0	78.0	79.5	81.5	83.3	85.0	87.3	86.0			130.3
TAPE A1745	250	75.8	76.3	78.8	79.3	75.8	80.0	80.8	82.3	84.0	85.3	87.0	88.5	89.5	87.8			133.9
SAM 29.0 HQ	315	78.0	78.5	80.3	82.0	78.8	82.5	83.3	84.5	86.0	87.0	88.5	89.5	89.0	86.3			135.1
98030 N/M2)	400	79.4	78.7	80.2	82.7	80.4	83.4	83.4	85.4	85.9	86.7	87.7	88.2	86.2	83.2			134.7
TAMB 86. DEG F	500	76.0	77.3	77.8	80.3	77.1	79.8	80.3	82.6	82.8	83.6	85.6	85.8	85.3	83.6			132.3
(303. DEG K)	600	78.0	79.5	80.5	84.2	81.2	85.2	84.5	88.0	88.5	89.5	90.2	89.2	86.7	85.2			136.7
TNET 74. DEG F	1000	78.3	80.0	80.3	82.3	81.3	84.8	83.5	86.5	86.3	88.3	88.0	86.8	86.3	85.0			135.4
(296. DEG K)	1250	78.8	79.3	80.3	86.5	81.8	85.8	87.3	86.0	88.0	91.3	92.0	90.3	89.5	85.5			137.9
HACT 0. GH/M3	1500	78.8	80.1	79.3	83.8	81.1	84.3	84.6	84.6	88.1	91.6	92.6	88.3	86.6	85.1			137.4
( 913. RAD/SEC)	1800	76.2	76.4	77.2	80.4	78.2	80.2	81.4	83.2	85.2	87.0	88.7	85.4	84.4	80.9			134.2
RFA 8723. RPM	2000	72.1	73.6	74.1	77.8	75.8	77.8	79.3	81.3	81.3	84.6	87.3	83.6	81.3	79.1			131.8
( 913. RAD/SEC)	2500	69.5	72.3	74.5	76.5	74.0	79.5	79.3	80.3	80.8	82.8	87.0	82.5	80.8	77.5			131.1
NFX 8584. RPM	3150	78.6	78.8	72.1	74.1	72.6	73.6	74.3	75.8	78.6	80.8	83.3	81.1	78.8	76.1			128.5
( 896. RAD/SEC)	4000	78.1	68.6	78.8	75.1	72.6	73.3	72.8	76.6	76.6	77.6	81.6	80.9	76.3	74.1			127.4
NFD 1062. RPM	5000	68.4	70.4	68.9	72.9	78.6	72.6	75.1	77.1	79.1	81.6	80.4	80.9	77.9	73.6			128.2
(1113. RAD/SEC)	6000	69.4	72.4	72.7	74.2	73.7	76.4	78.2	80.9	82.9	84.9	86.7	87.9	80.4	77.2			133.8
NO. OF BLADES 44 12"00	8000	65.9	68.1	69.6	73.4	71.9	79.1	75.6	78.4	81.9	84.1	85.4	85.6	79.9	75.1			132.6
FAN TIP SPEED 16000	10000	67.9	69.4	69.4	73.4	72.7	76.2	78.2	80.4	82.9	83.7	84.7	86.4	79.2	75.4			133.9
FT/SEC 20000	12000	68.0	68.3	69.8	72.8	73.5	77.3	79.8	82.0	84.3	86.5	87.8	89.0	89.8	76.8			136.9
OVERALL MEASURED	14000	67.4	66.9	67.4	70.7	71.4	75.4	77.7	80.2	82.4	84.7	86.2	88.9	78.9	75.4			137.6
OVERALL CALCULATED	20000	66.0	63.7	64.5	67.2	67.5	71.2	73.5	75.2	78.2	80.7	82.7	85.2	75.2	71.7			136.4
PWB		89.1	89.8	90.9	93.7	91.3	94.6	95.5	96.7	97.9	99.9	101.2	100.9	99.3	98.4			148.3
		98.5	99.2	100.5	103.1	100.8	103.5	105.1	106.5	107.9	109.8	112.1	111.3	108.2	105.8			

SPL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	77.6	76.6	77.8	78.1	75.6	78.6	79.1	80.8	82.1	82.6	84.1	87.1	90.1	93.6				133.5
63	76.0	77.0	80.0	78.0	76.3	79.3	81.8	81.8	82.0	82.8	85.0	88.3	91.3	94.3				134.5
BADIAL 100. FT.	80	74.4	75.9	76.9	77.1	74.1	78.9	79.9	81.6	82.9	83.4	85.9	87.9	90.9				134.0
( 30. M)	100	75.9	75.4	77.4	77.9	75.4	79.7	79.7	80.7	81.9	82.7	85.2	87.4	88.9				132.9
VEHICLE PPG	125	75.7	75.5	76.2	77.2	74.2	78.0	78.5	80.0	80.7	81.5	83.2	85.0	86.7				131.2
CONFIG NC-071	180	85.7	83.2	82.9	79.7	79.2	84.4	85.9	88.7	84.7	84.9	87.7	84.7	89.9				135.6
LOC ATT FAN	288	74.3	74.5	75.8	76.8	73.5	78.5	79.3	81.8	83.0	84.8	86.5	88.5	91.0				133.8
DATE 08-20-75	290	78.5	78.5	81.3	81.8	78.5	83.0	83.8	85.5	87.3	88.3	90.6	92.3	92.8				137.2
RUN 109	315	81.0	82.0	84.3	86.8	83.0	86.8	88.5	89.0	91.8	93.3	92.8	93.3	91.3				139.5
TAPE A1745	480	80.9	81.2	82.9	85.4	82.7	85.4	85.9	86.7	87.7	88.2	89.9	90.4	89.2				136.9
BAR 29.0 HG	580	79.6	80.6	83.1	87.3	82.1	83.6	85.3	87.3	88.8	87.8	88.8	88.6	88.3				136.7
(98030. N/M2)	630	80.5	82.0	87.2	87.2	88.0	89.0	90.5	90.5	90.0	92.5	94.2	93.0	91.0				140.4
TAMB 88. DEG F	800	81.0	85.3	85.0	84.5	83.5	86.0	86.3	88.8	88.8	89.8	91.0	92.0	89.3				138.3
(303. DEG K)	1000	81.5	85.0	87.5	91.5	89.5	93.8	93.5	94.0	93.3	93.3	95.8	92.8	91.0				142.7
THET 74. DEG F	1250	82.3	85.6	86.1	89.1	89.8	89.6	89.8	90.6	91.6	94.6	95.1	91.1	90.3				141.1
(296. DEG K)	1680	80.7	80.7	82.2	85.7	81.7	84.4	84.7	87.4	87.9	92.7	91.9	88.2	88.4				138.0
HACT 0. GM/M3	2000	75.8	77.8	78.3	81.8	80.6	83.1	83.3	85.1	86.1	87.1	90.1	87.1	85.6				135.4
(. KG/M3)	2500	72.5	75.8	77.8	79.8	77.8	79.3	82.3	83.0	84.3	85.8	90.0	86.0	83.8				134.3
NFA 9532. RPM	3150	74.1	74.6	76.1	77.6	75.8	77.6	77.6	79.3	82.6	85.1	86.6	84.6	82.6				132.1
( 998. RAD/SEC)	4080	73.6	71.8	74.6	78.8	76.1	77.3	76.3	80.3	81.1	81.3	84.6	83.8	80.1				130.9
NFK 9293. RPM	5090	71.1	73.6	73.1	76.9	73.9	76.1	77.4	80.1	81.8	84.4	82.9	82.9	81.6				131.0
( 973. RAD/SEC)	6300	71.7	74.7	74.9	77.4	75.9	79.2	79.9	82.2	85.7	86.9	88.9	87.4	82.2				134.9
NFD 10628. RPM	8000	71.9	71.9	72.9	77.1	74.9	78.6	79.1	82.9	85.1	87.9	87.9	88.4	83.1				135.5
(1113. RAD/SEC)	10000	69.9	72.9	72.4	76.7	75.4	78.9	81.2	82.7	85.4	85.9	87.9	87.9	81.4				135.9
NO. OF BLADES 44	12500	70.0	71.0	71.5	75.8	75.5	79.8	82.0	83.5	86.0	87.5	88.3	89.3	81.5				138.0
FAN TIP SPEED 16090	16090	68.7	69.7	70.7	73.9	74.9	77.7	80.2	82.7	85.4	86.9	88.7	89.9	81.4				139.7
FT/SEC 20000	20000	66.5	67.0	68.0	71.2	71.7	73.5	76.2	78.0	81.0	82.5	84.5	87.0	78.5				138.5
OVERALL MEASURED		92.7	93.9	95.6	97.8	95.6	98.8	99.5	100.6	101.2	102.8	104.3	103.5	102.9				151.5
OVERALL CALCULATED		92.7	93.9	95.6	97.8	95.6	98.8	99.5	100.6	101.2	102.8	104.3	103.5	102.9				151.5
PNDB		102.1	103.4	104.6	107.2	105.0	108.3	108.8	110.2	111.1	113.3	114.9	113.1	111.7				109.9

REPRODUCIBILITY OF THIS ORIGINAL PAPER IS POOR

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																		PWL
		30. (0.52)	40. (0.78)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)	0. (0.)		
	50	78.1	77.3	78.8	79.6	76.8	80.1	80.3	82.3	83.3	85.1	85.8	88.3	92.1	95.6				135.3	
	63	78.0	78.8	80.8	80.3	76.5	81.5	82.5	83.0	83.5	84.5	85.5	87.0	92.5	95.3				135.6	
RADIAL 100. FT. (30.4)	80	75.6	77.1	77.4	77.9	74.9	80.9	80.6	82.4	83.4	84.9	86.9	89.4	91.9	94.1				135.1	
VEHICLE PPG	125	76.2	76.0	77.0	78.0	74.5	79.0	79.2	80.5	81.0	82.7	84.2	85.7	88.2	90.4				133.5	
CONFIG NC#071	160	77.2	80.7	79.7	83.9	78.4	80.2	82.4	84.9	82.2	83.4	84.9	86.9	89.7	89.2				131.8	
LCC ATT FAN	200	75.0	76.0	77.5	78.8	75.5	80.3	81.3	83.0	84.0	86.8	88.0	90.8	93.3	91.5				133.9	
DATE 06-20-75	250	80.3	79.5	82.8	82.8	79.5	84.5	85.3	87.0	88.3	90.3	91.8	93.5	95.3	93.0				135.7	
RLN 110	315	84.5	85.8	85.3	86.5	84.8	90.8	88.8	90.3	91.3	92.0	93.5	95.3	94.5	92.5				138.8	
TAPE A1745	400	82.4	82.9	84.2	86.2	83.9	87.4	87.7	89.2	88.9	90.4	91.4	91.9	90.9	88.7				140.8	
BAR 29.0 HG	500	81.8	82.6	85.3	83.6	81.6	85.1	84.8	88.1	88.3	93.6	91.3	91.3	90.1	91.1				138.6	
(98030. N/H2)	630	82.7	85.0	83.7	89.0	84.5	90.0	89.5	91.5	91.5	94.2	92.7	92.7	91.5	88.7				140.6	
TAMB 86. DEG F	800	83.0	84.8	86.8	87.5	87.0	89.5	89.3	91.5	91.5	93.5	91.3	90.8	92.5	89.0				140.4	
(303. DEG K)	1000	84.0	85.5	85.8	92.3	89.0	93.0	94.0	94.0	93.0	96.0	94.3	92.3	91.8	89.0				142.9	
TWET 74. DEG F	1250	86.1	87.8	84.3	91.3	88.1	90.3	90.8	94.3	92.6	96.1	95.8	93.6	93.6	90.6				142.8	
(296. DEG K)	1600	82.2	83.7	85.7	91.4	87.9	88.7	89.4	88.9	92.2	96.7	94.4	90.2	90.4	87.2				141.6	
HACT 0. GM/H3	2000	77.8	78.8	80.6	83.6	81.8	84.6	85.8	86.8	88.1	92.1	91.8	87.8	86.6	84.3				137.7	
(. KG/M3)	2500	74.0	77.5	79.5	81.8	80.0	82.0	85.0	85.8	86.3	89.3	91.3	87.3	84.8	82.0				136.3	
NFA 10134. RPM	3150	75.8	76.6	78.1	79.8	79.1	80.3	80.6	81.6	84.8	88.3	88.3	86.3	84.1	81.3				134.4	
(1661. RAD/SEC)	4000	75.3	73.8	77.1	80.8	78.8	80.1	79.3	83.3	83.3	84.3	86.8	86.1	81.8	79.6				133.3	
NFK 9880. RPM	5000	72.1	75.1	74.9	78.6	75.9	79.1	80.6	82.4	83.4	87.1	84.6	84.9	82.9	78.9				133.2	
(1034. RAD/SEC)	6300	72.7	76.9	76.7	78.7	77.9	81.2	82.4	83.9	86.7	87.4	88.9	87.7	81.7	79.2				135.7	
NFD 10628. RPM	8000	73.6	73.4	74.9	79.1	78.6	82.1	82.6	85.6	88.4	91.1	90.9	90.1	84.4	80.6				138.3	
(1113. RAD/SEC)	10000	71.9	74.9	74.4	78.2	77.7	82.4	83.7	84.9	87.2	87.9	89.9	89.4	83.2	79.2				137.9	
NC. OF BLADES 44	12500	71.5	73.0	74.0	77.3	77.8	82.3	84.3	85.5	86.8	88.3	89.3	89.8	82.5	79.8				139.1	
FAN TIP SPEED	16000	71.2	71.7	72.4	76.2	76.7	80.9	83.2	84.7	86.7	88.9	89.7	90.7	81.9	78.9				141.2	
FT/SEC	20000	68.2	68.7	70.0	73.5	73.7	76.7	79.2	80.5	82.7	84.7	85.7	88.2	79.0	76.2				140.2	
OVERALL MEASURED		94.0	95.4	95.9	90.4	96.7	100.2	100.6	102.1	102.5	105.3	104.9	104.6	104.6	103.9				152.9	
OVERALL CALCULATED		94.0	95.4	95.9	90.4	96.7	100.2	100.6	102.1	102.5	105.3	104.9	104.6	104.6	103.9				152.9	
PND9		103.7	105.2	106.3	110.2	107.5	109.9	110.6	112.1	113.2	116.4	116.0	114.3	113.3	111.1					

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL														
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.													
FREQ. (0.52)(0.70)(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(0. ) (0. ) (0. )	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	OVERALL MEASURED	OVERALL CALCULATED	PND8	
RADIAL 100. FT. (30. M)	79.8	79.6	80.1	80.6	78.8	81.6	81.8	83.1	85.1	86.3	87.8	90.6	94.6	98.6																	137.6
VEHICLE PPG	78.8	79.5	81.3	80.0	78.3	81.5	83.0	84.0	84.8	86.3	88.0	91.3	94.5	98.3																	137.7
CONFIG NC=071	77.9	79.1	79.6	79.9	76.6	82.1	82.4	83.6	85.4	86.6	88.4	90.6	93.4	96.1																	136.7
LOC ATT FAN	78.6	78.9	80.6	80.1	77.6	82.1	82.4	83.1	84.6	85.4	87.1	90.6	92.6	92.9																	135.7
DATE 06-20-75	78.2	78.5	79.2	79.3	77.2	80.7	81.0	82.2	83.0	84.7	86.2	88.0	90.2	89.7																	133.9
RUN 111	78.9	77.2	78.9	80.2	76.7	81.7	80.9	81.9	85.9	85.2	86.4	88.4	90.9	91.2																	134.6
TAPE A431	79.8	78.3	81.5	81.5	77.8	83.8	83.3	85.0	89.0	89.3	90.8	92.8	95.5	93.8																	138.3
BAR 29.0 HG	82.0	82.3	84.8	84.5	82.3	86.5	87.0	88.3	90.5	92.3	94.0	96.0	96.8	95.0																	140.8
(98030. N/H2)	84.8	85.0	87.8	88.3	86.0	89.0	89.8	91.0	93.0	94.0	95.8	96.8	96.5	94.3																	142.3
TAMB 84. DEG F	85.2	85.7	86.7	88.9	87.4	90.2	90.2	90.4	91.7	92.4	94.2	94.4	93.7	91.7																	141.1
(302. DEG K)	83.1	84.8	85.1	85.8	83.1	86.1	86.6	87.8	89.1	90.6	91.3	93.1	92.6	90.1																	138.8
THET 75. DEG F	83.7	86.0	86.5	88.5	86.5	89.5	90.2	92.0	92.7	94.0	94.7	94.0	93.7	90.5																	141.5
(297. DEG K)	84.8	86.5	87.5	89.0	87.8	90.3	90.8	91.3	92.3	94.5	93.5	92.5	89.5																		141.4
HACT 0. GH/M3	86.5	87.0	88.8	92.5	88.5	93.5	94.3	93.5	93.8	96.5	97.3	93.8	92.8	90.3																	143.7
(. KG/M3)	47.8	91.1	90.8	90.1	93.1	93.1	99.1	99.3	101.3	102.1	103.1	94.8	93.1	91.1																	148.5
NFA 10928. RPM	82.7	83.9	86.2	88.7	85.7	88.2	89.4	93.7	92.7	98.7	96.7	92.7	91.9	90.2																	143.0
(1144. RAD/SEC)	80.6	81.6	82.8	86.1	85.1	87.3	87.6	88.6	89.3	92.3	93.3	89.8	88.3	86.3																	139.2
NFK 10674. RPM	76.5	80.0	82.0	84.5	82.3	84.8	86.8	87.0	88.5	91.0	93.3	89.3	87.3	84.8																	138.3
(1118. RAD/SEC)	78.6	79.8	80.6	81.6	86.6	82.6	82.6	84.1	87.3	90.6	91.1	88.6	85.8	83.3																	136.8
NFU 10628. RPM	77.3	76.8	79.8	83.3	80.8	82.8	81.6	85.6	85.6	86.3	89.1	87.6	83.6	81.6																	135.5
(1113. RAD/SEC)	74.6	77.8	77.1	81.1	77.8	80.8	82.8	83.8	86.1	89.1	86.3	86.6	84.8	80.3																	135.2
NO. OF BLADES 44	74.7	79.4	79.4	81.4	79.9	82.7	83.9	85.2	87.4	88.2	90.7	88.4	83.2	80.7																	136.9
FAN TIP SPEED FT/SEC	76.6	77.3	79.1	82.6	80.6	85.1	85.6	88.3	91.1	93.6	92.6	91.8	86.6	83.1																	140.6
OVERALL MEASURED	75.1	78.1	77.8	81.8	82.6	85.1	86.3	87.1	89.6	90.3	91.3	92.1	85.3	82.1																	140.2
OVERALL CALCULATED	74.1	76.1	77.1	80.6	80.4	84.8	86.1	87.4	89.4	90.9	91.4	92.6	85.1	81.6																	141.5
PND8	73.2	75.0	75.7	79.0	78.7	83.5	85.2	86.5	88.7	90.5	91.5	92.7	85.0	81.0																	143.1
	89.9	71.4	72.4	75.9	74.9	78.9	80.9	81.9	84.7	87.2	88.2	90.2	82.7	78.2																	142.4

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANs)															PWL		
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)		0. (0.)	0. (0.)
	50	78.8	78.8	79.3	79.1	77.8	80.6	80.6	82.1	83.3	85.1	86.1	88.6	92.1	96.1				135.5
	63	77.8	79.3	81.3	79.0	77.0	80.5	82.3	82.0	83.3	84.8	86.8	90.0	92.5	96.0				135.9
RADIAL 100. FT. (30. 4)	80	76.1	77.6	78.1	78.1	75.9	80.4	80.9	82.4	84.1	85.4	87.1	89.4	91.9	94.4				135.3
VEHICLE PPG CONFIG NC-671	100	76.6	76.9	79.4	78.9	75.9	80.4	80.6	81.6	82.9	83.6	85.6	88.6	90.1	90.6				133.8
	125	76.5	77.0	77.7	78.2	75.5	79.0	79.5	80.5	81.5	82.5	84.2	86.2	88.2	87.5				132.0
	160	76.7	82.7	80.9	84.7	77.7	79.7	83.7	84.7	82.2	82.7	84.2	86.7	89.4	88.4				133.8
LOC ATT FAN	200	75.5	77.0	78.3	78.8	76.0	80.0	81.3	83.3	84.8	86.5	88.3	90.8	93.0	91.5				135.8
DATE 06-26-75	250	80.3	80.5	83.8	83.3	79.8	84.8	85.5	86.5	88.8	90.3	92.0	94.0	94.5	93.3				138.9
RUN 112	315	84.5	86.5	85.5	86.5	85.3	90.0	88.3	90.3	91.3	92.5	94.0	95.5	94.3	92.3				140.9
TAPE A431	400	83.7	83.9	85.2	86.9	84.4	87.9	88.4	89.2	89.9	90.9	91.7	92.2	91.2	88.7				139.0
BAR 29.0 HG (98030. N/42)	500	81.6	83.3	85.3	83.8	83.6	84.3	85.1	86.3	90.1	93.3	92.8	91.3	90.8	90.6				138.9
TAMB 84. DEG F (302. DEG K)	630	83.0	85.7	85.0	89.2	85.0	89.7	89.0	91.2	91.7	93.5	93.7	92.7	91.7	89.2				140.7
THET 75. DEG F (297. DEG K)	800	83.8	85.8	86.8	88.0	87.0	89.3	89.5	92.0	92.3	93.0	92.3	91.0	92.0	88.8				140.6
	1000	84.3	87.3	86.8	91.5	89.0	92.5	93.0	94.5	94.0	95.8	95.0	92.5	91.8	89.0				142.9
	1250	85.1	88.1	88.1	90.1	87.1	91.1	91.3	95.8	92.6	98.3	95.3	92.6	93.6	90.8				143.4
	1600	81.7	83.9	85.7	90.7	87.4	88.7	88.9	88.7	91.7	94.7	94.2	90.7	89.7	86.4				140.8
MACT 0. GM/M3 (. KG/M3)	2000	78.6	79.8	81.3	84.1	81.8	84.6	85.1	86.8	88.8	92.6	92.8	88.8	86.1	84.3				138.2
	2500	74.5	78.5	79.8	82.5	83.0	82.0	84.5	85.8	86.5	89.0	91.5	87.5	84.8	82.5				136.3
NFA 10108. RPM (1058. RAD/SEC)	3150	76.6	77.3	78.6	79.8	78.6	80.1	80.8	81.8	85.3	88.3	89.1	86.6	84.1	81.1				134.7
	4000	75.8	75.1	77.6	81.3	78.6	79.8	79.3	82.8	83.3	84.3	87.1	85.6	81.8	79.6				133.3
NFK 9873. RPM (1034. RAD/SEC)	5000	72.6	76.1	75.6	79.6	76.1	78.3	80.6	81.8	83.8	86.8	84.6	84.8	82.6	78.8				133.1
	6300	73.2	77.7	77.2	79.7	77.9	81.4	82.2	84.2	87.2	87.2	89.9	87.9	82.2	79.2				136.0
NFD 10628. RPM (1113. RAD/SEC)	8000	74.3	74.6	76.1	79.6	77.8	81.8	82.8	85.8	88.8	91.8	91.3	90.3	85.1	80.8				138.5
	10000	71.8	75.6	75.3	79.1	77.3	82.1	83.3	84.6	86.8	87.8	89.3	89.1	82.8	79.3				137.6
NO. OF BLADES 44	12500	71.4	72.9	74.6	77.9	77.6	81.4	83.6	85.1	86.9	88.6	89.1	90.1	82.4	79.1				139.1
FAN TIP SPEED FT/SEC	16000	70.7	72.2	72.7	76.2	76.7	80.5	83.0	84.5	86.5	88.7	89.5	91.2	81.5	79.0				141.1
	20000	67.2	68.9	69.7	73.4	72.7	75.7	78.9	79.9	82.4	84.4	86.2	88.7	78.7	76.2				140.2
OVERALL MEASURED		94.1	96.2	96.8	99.2	96.7	100.0	100.3	102.4	102.9	105.3	105.3	104.8	104.4	104.1				153.0
OVERALL CALCULATED		94.1	96.2	96.8	99.2	96.7	100.0	100.3	102.4	102.9	105.3	105.3	104.8	104.4	104.1				153.0
PNOB		103.7	105.9	106.9	110.1	107.3	109.8	110.3	112.5	113.3	115.7	116.4	114.5	113.1	111.0				

SPL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
FREQ. (0.52)(0.70)(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(3.0)	(3.0)	(3.0)	(3.0)
90	79.1	79.1	80.1	80.1	78.8	81.6	82.3	83.3	84.3	85.8	87.1	90.1	94.3	98.3				137.3
63	77.8	79.3	81.5	80.3	78.3	81.8	84.0	83.5	85.0	86.0	87.5	91.0	94.3	98.3				137.6
RADIAL 100. FT. (30. 4)	80	77.6	78.9	79.6	79.6	77.1	81.9	82.1	83.1	85.4	86.6	88.6	91.4	93.6	95.9			136.8
VEHICLE PPD	100	78.4	78.1	80.4	80.1	78.1	81.9	82.1	82.9	84.6	85.9	87.4	90.1	92.4	92.9			135.6
CONFIG NC=071	125	78.5	77.7	79.2	79.5	77.0	80.5	81.0	82.0	83.5	84.7	86.2	88.0	90.0	90.0			133.8
LCC ATT FAN	160	80.2	77.4	79.9	80.4	76.2	82.2	81.4	82.4	85.9	85.4	86.9	88.2	91.2	91.4			134.9
DATE 06-20-75	200	81.0	78.8	81.5	81.3	77.5	83.8	84.6	85.8	88.5	89.0	91.0	92.8	95.3	93.5			138.2
RUN 113	250	82.0	82.0	84.8	84.5	81.3	86.3	87.0	88.5	90.5	92.5	94.5	96.5	97.0	95.3			141.1
TAPE A431	315	84.5	84.8	87.0	88.3	85.8	89.0	89.3	90.8	92.5	94.0	95.8	96.8	96.5	94.8			142.2
BAR 29.0 HG	400	84.7	85.9	86.4	88.9	87.2	89.7	89.7	90.4	91.2	92.2	93.9	94.4	93.7	91.9			140.9
(98030, N/M2)	500	83.1	84.8	85.1	85.3	82.8	85.8	86.1	87.8	88.8	90.8	91.8	93.1	92.6	89.8			138.8
TANB 84. DEG F	630	83.5	85.5	86.5	87.7	86.7	89.5	90.5	91.5	92.7	94.0	94.2	94.5	93.7	90.7			141.5
(302. DEG K)	800	84.5	87.0	87.0	88.3	88.0	90.0	90.8	92.0	93.8	93.3	92.5	92.8	89.8				141.1
THET 75. DEG F	1000	86.0	87.0	88.8	91.5	88.3	92.3	94.3	93.0	93.5	95.8	97.3	94.0	92.5	90.5			143.3
(297. DEG K)	1250	88.8	89.3	91.6	89.6	89.3	90.6	96.8	98.1	101.1	101.6	102.3	95.6	92.6	89.8			147.6
HACT 0. GH/M3	1600	81.9	83.2	84.9	87.9	86.7	88.2	88.4	92.7	92.9	97.9	97.2	93.9	92.4	88.7			142.8
(. KG/M3)	2000	79.8	81.3	82.1	85.8	84.3	87.8	87.1	89.1	89.6	92.6	93.3	89.8	87.8	86.6			139.2
NFA 10888. RPM	2500	76.5	80.0	82.0	84.0	82.3	84.0	87.0	87.0	88.3	90.8	92.3	89.0	87.3	84.5			137.9
(1140. RAD/SEC)	3150	78.3	79.3	80.1	81.6	80.6	82.6	83.1	83.8	87.6	90.1	90.6	88.1	85.6	83.3			136.5
NFK 10635. RPM	4000	77.8	76.6	79.1	82.8	81.1	81.8	81.3	84.8	85.1	88.3	88.8	87.8	83.6	81.8			135.2
(1113. RAD/SEC)	5000	74.3	77.8	76.8	80.8	78.6	80.6	82.6	83.8	85.6	88.8	86.6	86.6	84.1	80.3			135.0
NFD 10628. RPM	6300	74.9	79.2	79.2	81.2	80.2	82.9	83.7	84.9	87.4	87.7	90.2	88.4	82.9	80.2			136.7
(1113. RAD/SEC)	8000	76.6	76.6	78.8	82.3	80.6	84.3	85.1	88.6	90.8	93.6	92.6	91.6	86.3	82.6			140.5
NO. OF BLADES 44	10000	74.8	78.3	77.8	81.3	80.8	84.1	86.8	87.6	88.6	90.1	91.1	91.1	84.6	81.8			140.0
FAN TIP SPEED	12500	74.6	75.4	77.1	80.4	80.4	84.1	86.1	87.4	89.4	90.9	91.4	91.9	83.9	81.9			141.3
FT/SEC	16000	73.2	75.0	75.2	78.7	79.5	83.5	85.2	87.0	88.7	90.5	91.5	92.7	83.2	81.2			143.1
OVERALL MEASURED	20000	69.4	71.4	71.9	75.9	75.9	78.7	80.9	82.9	84.7	86.4	87.4	90.2	80.4	78.2			142.1
OVERALL CALCULATED		95.8	96.8	98.2	99.4	97.8	100.6	102.5	103.6	105.5	107.1	107.9	106.7	106.2	106.0			154.9
PND8		105.9	106.9	108.5	109.8	108.2	111.1	112.9	114.2	116.3	117.8	118.6	116.4	115.0	112.8			

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PNL		
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)		0. (0.)	0. (0.)
	50	77.8	77.3	78.1	78.3	76.8	79.1	79.6	80.8	82.1	83.3	84.8	87.1	90.3	94.1				133.9
	63	75.5	77.3	80.5	77.3	75.8	79.0	82.0	81.5	82.5	83.5	84.8	87.5	90.8	94.3				134.3
RADIAL 100. FT.	80	74.9	76.1	77.1	77.1	74.4	79.1	79.1	80.1	82.6	83.9	85.4	87.6	90.4	92.6				133.6
(30. 4)	100	75.4	75.6	77.4	77.4	74.6	79.4	79.4	80.9	82.1	83.4	84.9	87.1	88.4	89.1				132.5
VEHICLE PPG	125	75.5	75.7	76.5	76.7	74.5	78.2	78.5	79.7	81.0	81.2	83.0	84.2	85.7	85.0				130.4
CONFIG NC#071	160	83.2	81.4	83.4	80.2	79.2	84.2	84.7	87.9	86.2	83.7	87.2	84.4	89.4	87.2				135.0
LOC ATT FAN	200	73.8	74.8	76.0	76.3	73.8	78.5	79.3	81.0	82.8	84.0	86.3	88.0	90.8	89.8				133.5
DATE 06-26-75	250	78.5	78.5	82.0	81.5	77.8	82.8	83.3	84.8	86.8	88.3	89.5	92.0	93.0	91.5				136.9
RUN 114	315	81.0	82.3	84.3	86.3	83.0	86.5	88.0	89.0	89.8	90.8	92.8	92.8	93.0	91.3				139.2
TAPE A431	400	81.4	81.7	83.2	85.4	82.4	85.4	85.7	86.4	87.7	88.9	89.7	89.9	88.9	87.2				136.8
BAR 29.0 HG	500	80.1	80.1	84.3	87.3	83.3	84.1	85.6	87.1	89.6	89.6	88.6	89.1	88.8	87.8				137.2
(98030. N/M2)	630	80.5	82.2	87.7	87.7	87.7	88.7	90.2	89.5	90.2	92.5	93.2	93.0	91.5	87.5				140.2
TAMB 84. DEG F	800	81.3	85.8	86.3	84.5	83.0	85.8	86.0	88.3	88.8	89.5	91.3	91.0	89.0	89.5				138.1
(302. DEG K)	1000	81.3	85.3	88.3	90.8	89.0	93.3	93.5	93.8	93.3	94.3	94.8	94.0	90.8	90.3				142.6
TWET 75. DEG F	1250	82.3	84.8	86.6	88.8	85.3	89.6	89.1	89.8	91.8	95.6	94.6	92.1	89.6	87.3				141.1
(297. DEG K)	1600	80.4	80.9	82.4	85.7	81.7	84.2	84.4	86.7	87.4	92.4	92.2	88.4	87.4	83.7				137.8
HACT 0. GH/M3	2000	75.8	77.8	78.6	81.3	80.8	83.8	83.6	84.6	85.8	87.3	89.1	86.1	84.6	82.6				135.0
(. KG/M3)	2500	72.5	75.8	77.3	79.3	78.0	79.8	82.5	83.5	84.0	86.0	89.8	85.5	83.3	80.8				134.1
NFA 9510. RPM	3150	73.8	75.1	75.8	77.1	76.3	77.8	78.6	79.3	82.6	85.1	86.1	84.8	82.1	79.3				132.0
(996. RAD/SEC)	4000	73.6	72.8	74.8	78.3	76.6	77.3	77.3	80.8	80.6	81.6	84.1	83.6	80.1	78.1				130.8
NFK 9289. RPM	5000	71.1	74.1	73.1	76.3	73.8	76.3	78.8	80.3	81.3	84.6	82.3	83.1	81.6	77.1				131.1
(973. RAD/SEC)	6300	71.4	75.2	75.2	76.9	76.2	79.2	80.7	82.4	85.4	86.7	89.2	86.9	81.9	78.4				134.8
NFD 10628. RPM	8000	71.6	71.8	73.3	76.3	75.1	79.1	80.1	82.8	85.3	88.1	88.1	88.1	83.1	78.3				135.6
(1113. RAD/SEC)	10000	70.3	72.8	72.8	76.3	74.8	79.8	81.6	82.8	84.8	86.1	87.8	87.8	82.1	78.1				135.9
NO. OF BLADES 44	12500	69.6	71.1	72.4	74.9	75.4	80.1	82.4	83.6	85.9	87.4	88.4	88.9	82.4	78.4				137.9
FAN TIP SPEED	16000	68.7	70.2	70.7	73.2	74.2	79.0	81.2	83.0	85.2	87.2	88.2	89.5	82.0	78.0				139.6
FT/SEC	20000	64.9	66.7	67.2	70.7	70.7	74.2	76.9	78.2	80.4	83.2	84.7	86.9	78.7	74.4				138.6
OVERALL MEASURED																			
OVERALL CALCULATED		92.3	93.9	96.2	97.5	95.4	98.7	99.3	100.3	101.2	103.1	103.8	103.4	102.7	102.5				151.3
PNDB		101.9	103.3	105.0	107.0	104.8	108.2	108.9	109.9	110.9	113.4	114.6	112.9	111.2	109.3				



SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)																PWL	
	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	77.1	75.6	76.8	77.3	74.6	76.6	77.1	78.1	78.8	80.6	82.6	84.3	87.1	89.8				130.8
63	73.3	74.3	79.3	74.3	73.3	76.3	80.0	78.0	79.0	80.0	81.3	84.0	86.5	90.0				130.7
RADIAL 100. FT. (30. M)	80	71.9	72.6	73.9	74.1	71.6	76.1	76.9	78.1	79.1	80.1	82.4	84.1	86.4				130.0
VEHICLE PPG	100	73.6	72.4	74.4	74.6	72.6	76.6	76.9	77.9	78.6	79.6	81.6	83.9	84.6				129.1
CONFIG NC-071	125	72.0	74.5	75.7	76.7	78.0	80.2	82.7	81.2	81.2	79.0	81.2	84.0	83.0				130.4
LCC ATT FAN	160	71.9	74.9	76.9	77.4	79.9	82.2	84.9	82.9	81.9	78.9	82.4	85.4	83.7				131.8
DATE 06-20-75	200	70.3	71.3	73.3	72.6	70.8	75.3	76.5	78.0	79.3	81.0	83.0	85.0	86.8				130.2
RUN 115	250	75.8	75.5	78.8	78.3	76.0	79.8	81.3	82.5	83.8	84.5	87.0	88.0	89.0				133.6
TAPE A431	315	77.5	78.3	80.8	81.0	78.8	82.5	83.0	84.3	86.0	86.5	87.5	89.3	88.8				134.9
BAR 29.0 HG	400	78.2	78.4	79.7	82.2	80.2	83.2	83.2	84.4	85.2	86.7	86.2	86.9	85.7				134.1
(9830. N/M2)	500	76.6	77.1	77.8	80.3	76.8	79.8	80.3	82.3	82.6	82.8	84.3	84.8	84.6				131.8
TANG 85. DEG F	630	78.0	79.5	80.7	83.5	80.7	84.7	84.5	86.7	87.2	88.0	89.5	88.0	86.5				135.9
(302. DEG K)	800	77.8	79.0	80.5	81.0	80.5	84.5	84.3	85.0	85.3	88.0	87.5	85.3	86.3				134.8
TWET 74. DEG F	1000	78.0	79.8	79.8	84.0	80.5	86.5	87.3	86.3	88.0	91.8	91.0	89.8	89.0				137.6
(296. DEG K)	1250	76.8	79.8	78.8	82.6	81.3	84.8	85.8	84.3	89.1	91.6	91.6	87.3	86.1				137.1
MACT 0. GM/M3	1600	75.4	75.9	76.4	79.4	77.2	79.9	81.7	83.2	85.4	87.4	87.9	85.2	83.4				133.8
(. KG/M3)	2000	71.8	73.8	74.1	77.1	75.3	77.8	79.3	80.8	81.1	83.8	83.8	81.3	78.8				131.4
NFA 8695. RPM	2500	69.3	72.0	74.8	76.0	73.5	75.5	80.0	79.3	80.5	82.8	80.5	82.8	80.5				130.9
(510. RAD/SEC)	3150	70.6	71.1	72.1	73.6	72.3	73.6	74.8	75.3	78.6	80.6	82.6	80.8	78.3				128.1
NFK 8489. RPM	4000	69.6	68.6	71.6	74.6	72.3	73.3	72.6	76.8	76.8	77.8	81.3	80.1	76.3				127.2
(889. RAD/SEC)	5000	68.3	70.3	69.3	72.8	70.1	73.1	74.8	76.8	78.8	81.3	80.3	80.8	78.3				128.2
NFD 10628. RPM	6300	69.2	72.2	72.7	73.9	73.2	76.2	78.4	80.2	82.9	84.7	88.2	86.7	79.2				133.3
(1113. RAD/SEC)	8000	68.3	68.3	69.8	73.1	71.3	75.3	76.1	79.1	81.3	83.8	84.8	85.3	79.3				132.0
NO. OF BLADES 44	10000	67.6	69.9	69.9	73.4	72.4	76.4	78.6	80.1	82.9	83.4	85.9	85.6	79.1				133.5
FAN TIP SPEED 15000 FT/SEC	12500	68.0	68.2	69.7	72.2	73.0	77.2	79.2	81.7	84.2	86.0	87.0	88.5	79.2				136.4
OVERALL MEASURED	20000	65.8	67.1	67.8	70.6	71.1	76.1	78.3	80.1	82.3	84.3	85.8	88.6	78.3				137.4
OVERALL CALCULATED		62.6	63.6	64.1	67.6	67.9	71.4	73.9	75.9	78.1	80.6	82.9	85.9	74.9				136.7
PND8		88.5	89.5	90.9	92.7	90.9	94.6	95.6	96.2	97.7	99.6	100.6	100.3	99.0				148.0
		97.9	98.9	100.6	102.4	100.3	103.6	105.4	105.9	107.8	109.5	111.6	110.3	107.8				105.7

SPL INPUT AT STD	FREQ.	30	40	50	60	70	80	90	100	110	120	130	140	150	160	0.	0.	0.	PWL
		(0.52)	(0.79)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.	(0.	(0.	
	50	72.3	71.8	73.8	72.6	70.8	72.8	73.8	74.1	75.8	76.8	78.3	80.3	81.6	84.3				126.3
	63	70.0	71.3	78.5	71.0	70.8	71.8	78.3	74.0	74.8	75.8	76.8	79.8	80.8	83.5				126.4
RADIAL 100. FT.	80	68.4	69.6	70.6	70.1	67.6	72.1	72.4	73.4	74.9	75.9	77.4	79.4	80.6	82.6				125.1
(30. M)	100	71.6	69.6	72.1	70.9	68.9	71.9	72.4	73.1	74.6	75.6	77.4	79.1	79.4	79.9				124.7
VEHICLE PPG	125	73.5	73.2	71.5	72.7	70.7	72.2	77.5	72.7	76.5	78.2	75.5	79.7	79.5	78.0				125.6
CONFIG NC-071	160	68.7	67.9	69.2	69.2	66.7	69.9	70.2	70.7	71.4	72.9	73.7	75.2	76.9	76.7				121.8
LCC ATT FAN	200	67.3	67.8	70.0	69.0	66.8	71.0	72.3	73.5	75.8	76.5	77.8	79.3	80.8	80.3				125.0
DATE 06-20-75	250	72.5	72.8	75.3	75.8	71.8	76.3	77.8	78.3	79.8	80.8	82.0	83.5	83.3	82.3				129.1
RUN 116	315	74.0	74.5	76.5	77.5	75.0	78.8	79.0	80.5	82.3	82.8	84.3	85.5	84.0	81.3				131.0
TAPE A431	400	75.4	74.4	77.4	79.4	77.9	79.7	79.7	82.4	82.7	83.9	85.4	86.9	83.4	79.4				132.0
BAR 29.0 HG	500	73.3	73.6	74.1	75.6	72.1	74.3	75.3	78.1	78.6	79.3	80.3	82.1	79.8	78.1				127.7
(98030. N/M2)	630	73.2	77.7	77.0	80.5	77.0	81.2	82.5	83.2	86.0	85.0	85.2	85.2	82.7	79.5				132.9
TANB 85. DEG F	800	75.3	78.3	76.3	77.3	78.0	78.5	83.0	85.0	85.5	86.5	84.5	84.5	83.8	80.5				133.1
(302. DEG K)	1000	74.0	75.3	77.0	78.8	77.0	79.0	81.5	83.5	86.5	87.3	86.8	84.3	81.3	81.5				133.3
TWET 74. DEG F	1250	74.6	77.3	77.6	78.3	75.6	79.1	82.8	83.1	87.3	86.6	87.1	86.8	81.6	82.1				133.8
(296. DEG K)	1600	71.7	72.9	72.9	75.4	71.9	76.2	79.2	78.9	81.2	82.2	82.9	82.2	80.9	77.2				129.6
MACT 0. GM/M3	2000	68.6	71.6	70.6	72.3	73.1	74.3	76.8	77.8	78.6	79.6	81.8	80.3	78.1	75.3				127.8
(. KG/M3)	2500	66.3	69.8	70.8	71.8	70.5	74.3	75.0	76.5	77.3	79.3	82.3	80.3	77.5	73.8				127.3
NFA 7603. RPM	3150	66.1	68.1	68.8	69.1	67.6	69.8	70.6	70.8	74.6	77.6	78.8	77.3	74.6	71.1				124.4
(796. RAD/SEC)	4000	67.8	65.1	67.3	69.6	68.1	69.1	69.1	71.6	72.3	73.8	76.8	76.1	71.1	69.1				122.8
NFK 7423. RPM	5000	66.6	67.6	66.8	69.3	67.6	71.1	73.6	76.3	78.8	81.8	80.3	82.6	76.3	73.1				128.1
(777. RAD/SEC)	6300	67.2	68.4	68.2	69.4	68.9	71.9	73.7	76.2	78.2	81.2	84.4	84.9	76.4	73.4				129.8
NFD 10628. RPM	8000	65.6	64.6	66.3	69.1	67.8	71.8	72.6	76.8	78.3	81.1	82.8	84.6	77.1	72.1				129.9
(1113. RAD/SEC)	10000	66.1	66.6	66.9	69.9	68.9	73.9	75.9	78.4	81.1	82.1	84.9	85.9	77.6	73.6				132.4
NO. OF BLADES 44	12500	65.2	64.7	66.0	68.7	69.2	74.0	76.2	78.5	81.0	83.5	85.2	87.5	77.7	74.0				134.3
FAN TIP SPEED	16000	64.8	63.8	64.6	67.3	70.8	72.8	75.8	77.6	80.3	82.3	84.6	88.6	76.8	73.3				136.2
FT/SEC	20000	60.3	60.1	61.1	63.8	69.4	69.6	70.4	72.4	74.9	77.6	80.4	84.9	73.1	69.4				134.7
OVERALL MEASURED		85.5	86.7	87.8	88.7	87.8	89.7	91.9	93.2	95.3	96.2	97.1	98.1	94.5	93.4				145.0
OVERALL CALCULATED		95.0	96.1	96.9	98.1	96.7	99.7	101.3	102.7	104.9	106.5	107.8	108.2	104.1	101.7				

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH DD DAY O HR. O.9

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)															PHL		
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
FREQ.	30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)	0. (0.)	PHL
50	73.3	72.8	73.6	72.6	73.8	71.3	75.1	74.1	75.6	77.3	78.3	80.3	81.3	84.6				126.5
63	70.8	72.0	78.8	71.3	75.3	71.0	81.3	75.3	76.3	77.5	80.8	81.0	83.8					127.4
RADIAL 100. FT. (30. M)	80	68.6	70.1	71.9	71.1	71.1	71.9	74.9	74.9	75.9	77.1	78.4	79.4	80.4	82.6			125.8
VEHICLE PPG	100	70.9	70.6	71.9	71.4	71.9	71.1	74.1	74.1	74.9	76.4	77.6	79.1	78.9	79.9			125.0
CONFIG NC-080	125	71.2	70.9	69.7	71.4	73.4	70.4	76.9	73.4	74.4	78.2	75.7	79.2	77.9	79.2			125.1
LOC ATT FAN	160	67.9	67.9	68.6	68.9	69.9	68.9	72.1	71.9	72.9	73.9	75.9	77.4	78.9	79.6			123.4
DATE 07-09-75	200	68.3	69.5	71.8	71.0	72.0	71.8	75.8	76.8	77.3	79.0	80.3	81.8	82.8	82.3			127.3
RUN 131	250	74.3	74.8	78.3	78.5	78.3	77.8	80.8	81.3	81.8	83.8	84.5	85.5	85.3	84.3			131.5
TAPE A723	315	75.0	75.8	78.0	79.0	79.5	78.8	81.8	81.8	83.0	83.5	85.8	86.3	84.3	81.8			132.1
PAR 28.8 HG	400	74.4	76.2	76.2	78.9	80.7	77.4	80.7	80.9	81.4	82.2	84.4	84.9	82.2	78.7			131.0
(9718. M/H2)	500	72.6	74.8	75.3	76.1	76.6	74.1	77.6	78.6	79.6	80.8	82.8	84.6	81.1	80.1			129.4
TAMB 70. DEG F	630	73.7	76.2	79.0	82.5	83.5	80.7	84.5	85.0	84.2	87.0	88.0	86.7	86.0	83.2			134.5
(294. DEG K)	800	74.5	77.0	78.3	78.3	81.3	77.5	81.8	81.8	83.3	86.5	85.8	83.3	82.3	80.5			132.4
TWET 66. DEG F	1000	76.0	76.7	78.0	81.0	80.2	81.2	85.7	85.7	86.5	88.0	88.2	87.5	84.0	81.7			135.0
(292. DEG K)	1250	75.5	77.0	78.8	82.0	84.3	82.8	85.8	86.0	87.5	89.0	89.5	89.5	86.8	83.3			136.3
HACT 0. GM/H3	1600	75.4	76.4	77.6	79.6	81.6	80.1	85.9	85.4	86.1	90.1	90.4	88.6	83.9	83.1			136.1
(. KG/H3)	2000	76.2	77.5	77.5	80.7	83.0	81.5	85.7	87.7	87.5	89.7	91.7	87.7	85.2	83.5			136.9
NFA 10000 RPM 7445	2500	72.7	77.2	77.7	80.7	83.4	82.2	85.9	86.9	88.4	90.4	91.9	87.4	85.2	83.4			137.2
(6050. RAD/SEC)	3150	73.5	77.2	78.7	83.2	84.7	82.2	87.0	88.2	91.0	93.0	93.5	90.2	85.7	83.5			139.2
NFK 5000 RPM	4000	77.4	76.7	79.4	83.2	87.9	83.4	90.2	92.4	92.2	91.9	96.9	92.4	87.2	87.4			141.6
(1020. RAD/SEC)	5000	82.7	84.9	86.7	89.9	89.7	93.2	93.7	96.4	98.7	103.2	100.7	100.4	94.7	89.9			148.2
NFD 10628 RPM 7400	6300	78.5	82.0	81.3	86.6	89.0	90.0	93.3	94.3	96.5	98.3	101.0	97.3	90.8	89.3			146.7
(1113. RAD/SEC)	8000	76.9	77.7	80.7	84.4	84.4	86.9	89.7	91.9	93.7	94.4	96.9	97.7	90.2	86.7			144.8
NO. OF BLADES 44	10000	77.0	77.7	78.7	82.7	85.2	87.0	90.0	91.7	93.5	95.7	97.5	97.8	88.5	86.7			144.0
FAN TIP SPEED	12500	72.9	73.6	76.4	78.9	82.1	84.4	86.1	88.9	90.6	92.9	95.4	96.9	87.1	84.1			144.1
FT/SEC	16000	71.4	71.8	73.3	76.3	79.3	81.5	84.4	86.8	88.8	91.4	92.5	96.5	83.5	81.5			144.5
OVERALL MEASURED	20000	66.3	69.6	70.1	71.6	74.1	76.0	79.1	81.8	83.6	86.3	88.3	91.3	79.6	76.6			142.1
OVERALL CALCULATED		89.4	91.1	92.7	95.7	97.4	97.9	100.7	102.4	104.1	106.8	107.5	106.7	100.6	98.5			154.6
PND8		103.3	103.3	106.8	109.8	110.8	111.9	114.2	116.0	117.8	121.0	120.5	119.5	114.7	111.7			

REPRODUCIBILITY OF THIS  
ORIGINAL DATA IS POOR

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	PWL	
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)		
50	78.8	76.6	77.8	77.1	77.8	76.8	78.8	78.8	79.6	81.1	82.6	84.3	86.8	90.1					131.2
63	76.3	75.8	80.3	76.0	78.5	76.8	83.3	79.0	79.8	81.0	82.3	84.8	86.5	90.0					131.6
RADIAL 100. FT. ( 30. M)	80	74.9	74.9	76.6	75.1	75.9	77.1	79.4	78.9	79.9	81.4	82.9	83.6	85.4	87.9				130.4
VEHICLE PPG	125	73.7	76.2	77.4	75.7	81.9	80.4	84.2	81.7	82.4	79.2	80.7	82.9	81.9	83.2				129.8
CONFIG NC-080	160	72.4	74.6	76.6	75.1	80.9	79.4	83.4	80.9	81.4	78.9	80.6	82.9	83.6	83.9				131.0
LOC ATT FAN	200	72.0	73.3	75.8	74.8	76.3	76.8	80.0	80.3	81.5	83.3	85.0	86.5	88.3	86.5				130.5
DATE 07-09-75	250	77.8	79.5	81.0	81.3	81.8	80.8	84.5	84.8	86.8	87.8	89.3	90.3	90.3	88.3				131.9
RUN 132	315	78.8	80.5	82.3	83.3	83.0	82.3	85.5	86.5	87.5	88.3	89.5	90.5	89.5	87.3				135.9
TAPE A723	400	78.4	79.9	80.4	82.4	83.4	81.4	84.4	84.4	84.9	86.2	87.2	87.2	85.7	83.2				136.4
SAR 28.8 HG (97119. N/M2)	500	76.6	78.8	79.1	79.6	79.3	78.1	81.1	82.1	83.1	83.8	86.1	86.8	85.8	83.8				134.3
YAMB 70. DEG F (294. DEG K)	630	81.0	83.2	81.5	84.5	83.7	86.5	86.0	87.5	88.0	88.2	90.5	89.7	86.7	88.0				132.7
THEY 66. DEG F (292. DEG K)	800	80.3	83.0	81.8	82.5	85.0	89.3	84.8	86.0	86.8	88.3	88.8	87.5	86.0	86.5				137.0
HACT 0. GM/M3 (. KG/M3)	1000	80.7	81.5	83.5	86.5	86.7	87.7	91.2	88.7	90.2	94.2	92.5	89.5	88.2	86.5				136.0
NFA 8570. RPM ( 897. RAD/SEC)	1250	79.5	82.5	84.5	85.5	87.3	87.3	89.0	90.0	91.3	94.0	94.5	92.3	89.0	87.5				139.8
NFK 8481. RPM ( 888. RAD/SEC)	1630	79.4	82.9	83.4	84.9	88.1	87.4	89.9	90.1	90.9	94.4	94.4	91.9	87.9	87.4				140.4
NFD 10628. RPM (1113. RAD/SEC)	2000	78.0	81.0	81.2	83.7	87.5	85.2	89.2	90.7	90.5	93.0	95.0	89.7	88.2	85.7				140.5
FAN TIP SPEED FT/SEC	2500	76.7	80.7	81.7	84.4	88.2	86.2	89.7	90.9	91.7	93.4	95.4	90.2	88.7	86.9				140.0
OVERALL MEASURED	3150	77.0	80.7	82.2	87.2	88.5	86.2	90.7	90.7	93.7	96.6	97.0	91.5	88.2	86.0				140.7
OVERALL CALCULATED	4000	80.2	79.4	82.7	85.4	91.4	86.2	92.7	94.7	93.9	93.7	97.4	92.9	88.9	89.4				142.2
	5000	82.2	84.4	86.9	90.7	91.4	93.4	92.9	95.2	96.9	100.4	97.7	97.7	93.4	89.2				143.2
	6300	84.0	87.3	86.3	92.0	95.3	95.0	98.8	99.8	102.5	103.3	105.8	100.5	95.5	94.5				146.2
	8000	80.9	82.4	85.2	89.2	92.4	91.2	94.4	96.7	97.2	98.7	100.2	100.2	93.4	90.9				151.2
	10000	79.7	81.5	82.5	86.5	91.2	91.7	92.7	94.2	96.7	97.7	99.2	98.2	91.0	88.7				147.7
	12500	76.6	77.9	80.6	83.6	87.4	88.4	90.6	92.6	95.1	96.6	98.1	99.4	90.9	87.1				147.2
	16000	73.5	75.4	76.8	80.4	84.3	85.8	87.5	89.5	92.4	93.3	95.4	97.8	86.8	84.3				147.4
	20000	69.3	71.8	73.3	75.8	79.3	81.3	83.3	85.3	88.1	90.3	91.3	93.8	83.1	80.3				146.8
		93.0	95.1	96.2	99.2	101.8	101.6	104.3	105.5	107.2	108.8	110.2	106.3	103.5	102.2				145.5
	PNDB	105.7	108.3	109.3	112.5	115.3	114.7	118.0	118.9	120.8	122.1	123.8	120.3	116.5	115.3				157.4

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 25 DAY 0 HR. 0.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

SPL INPUT AT STD	FREQ.	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY) ANGLES FROM INLET IN DEGREES (AND RADIANS)																PHL
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)	
	50	77.8	77.3	77.8	78.1	79.1	77.6	81.1	81.3	82.3	83.8	84.1	86.6	89.1	93.1			133.4
	63	76.8	77.5	81.3	78.8	79.5	78.5	84.5	82.0	83.3	83.8	85.0	87.8	90.0	93.8			134.4
RADIAL 100. FT. (30. M)	80	74.6	76.1	78.4	77.6	78.1	78.6	81.6	81.4	82.9	83.9	85.6	87.4	89.4	92.1			133.5
VEHICLE PPG	100	76.1	76.6	78.1	78.1	78.9	78.9	81.9	80.9	82.1	83.4	84.1	87.1	87.6	88.4			132.5
CONFIG NC-080	125	75.7	75.7	76.9	76.9	77.4	76.7	80.4	80.2	80.9	81.9	83.7	84.7	85.2	86.4			130.9
LOC ATT FAN	160	81.9	80.4	85.6	81.6	81.9	80.1	86.9	86.9	82.1	83.1	87.6	85.9	89.4	89.6			135.1
DATE 07-09-75	200	75.3	77.0	79.0	78.5	78.8	79.5	83.5	83.8	85.3	86.8	86.5	90.3	92.0	90.3			135.5
RUN 133	250	80.0	81.5	83.8	83.3	84.0	83.3	86.5	87.5	88.5	90.5	91.8	93.8	93.8	91.5			138.7
TAPE 3644	315	83.3	83.5	85.5	87.3	87.0	86.3	89.5	91.3	91.8	92.3	94.3	94.5	93.3	91.3			140.6
BAR 28.8 HG (971.86. N/M2)	400	81.4	82.7	83.7	85.4	86.4	84.4	88.2	87.4	88.2	89.2	90.2	90.2	88.7	87.2			137.5
TAMB 69. DEG F (294. DEG K)	500	81.3	82.8	86.1	86.8	84.3	84.8	89.8	87.8	90.1	91.1	92.1	91.1	90.3	88.8			138.8
THET 60. DEG F (292. DEG K)	630	81.2	83.5	84.5	86.5	87.7	86.0	89.5	89.0	90.5	92.0	92.7	91.5	91.0	88.0			139.4
MACT 0. KG/M3 (. KG/M3)	800	82.3	85.3	86.8	91.0	87.3	89.3	92.8	91.0	90.3	92.5	91.0	92.0	90.5	89.3			140.6
NFA 9363. RPM (980. RAD/SEC)	1000	84.7	86.0	89.0	89.7	90.5	89.7	92.5	93.2	94.5	96.2	95.0	92.2	91.5	89.5			142.4
NFX 9274. RPM (971. RAD/SEC)	1250	82.8	87.5	87.0	90.3	91.5	89.8	93.5	94.5	95.8	96.8	97.0	93.5	92.0	91.3			144.2
NFT 10628. RPM (1113. RAD/SEC)	1600	82.9	85.4	88.1	89.6	91.6	90.4	94.1	93.6	94.6	98.1	96.1	92.9	91.6	90.1			143.7
NO. OF BLADES 44	2000	84.2	85.7	86.7	89.7	93.7	92.5	95.2	96.0	96.5	98.2	96.0	94.5	91.5	90.5			145.1
FAN TIP SPEED FT/SEC	2500	80.9	85.2	87.7	90.4	93.2	91.4	94.4	95.2	95.9	98.7	102.2	95.2	92.7	91.2			146.0
OVERALL MEASURED	3150	81.9	85.7	87.4	91.9	92.9	91.2	95.9	95.7	97.9	99.7	99.7	94.9	91.9	90.9			146.2
OVERALL CALCULATED	4000	83.9	83.7	86.7	91.2	94.7	91.7	97.2	98.4	98.2	97.4	100.9	95.7	92.7	92.9			147.1
	5000	85.4	88.2	90.4	94.2	93.8	95.9	96.2	97.9	98.9	102.9	99.7	99.4	95.9	92.4			148.6
	6300	87.0	89.8	90.5	96.0	98.8	98.0	102.0	102.8	105.0	104.8	106.5	102.0	97.3	96.8			153.2
	8000	86.2	87.2	90.4	94.4	96.9	96.4	99.7	101.2	102.4	102.9	103.9	104.4	98.4	95.4			152.7
	10000	84.0	85.5	86.5	91.3	93.8	95.5	97.3	98.5	99.8	101.3	101.8	101.3	94.3	92.3			150.6
	12500	80.4	82.1	83.9	88.1	91.1	92.6	94.6	96.6	97.4	98.9	99.6	101.6	92.9	90.1			150.0
	16000	77.8	79.5	80.8	84.8	88.0	89.5	92.0	93.5	95.8	96.8	97.8	100.5	89.8	87.5			149.9
	20000	72.8	75.3	77.3	80.6	83.8	85.3	88.8	89.8	92.1	93.3	93.8	96.8	85.8	83.6			148.8
		96.5	98.5	100.4	103.7	105.7	109.2	108.4	109.3	110.6	111.9	112.6	111.1	106.8	105.7			150.6
		109.2	111.5	113.3	116.0	118.9	118.1	121.8	122.4	124.0	124.8	125.8	122.7	119.3	118.4			

SPL INPUT AT STD	FREQ.	30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0.	0.	0.	PWL
	50	78.8	78.3	78.6	79.6	80.8	79.1	82.1	82.5	83.3	84.8	86.3	89.1	92.1	96.1				135.7
	63	78.5	80.3	82.5	80.5	81.3	81.0	86.0	84.0	84.8	85.3	87.0	89.8	92.0	96.3				136.4
RADIAL 100. FT. (30. M)	80	76.1	77.9	78.6	79.1	79.4	79.6	82.6	83.4	84.4	86.1	87.4	89.9	91.9	94.4				135.6
VEHICLE PPG	100	77.6	77.9	79.6	79.4	79.6	79.6	82.4	82.6	83.6	84.9	86.6	89.1	89.9	90.1				134.2
CONFIG NC-080	125	76.9	77.2	77.4	78.9	79.4	77.7	81.2	81.7	82.4	83.7	85.4	86.4	86.9	87.9				132.5
LOC ATT FAN	160	75.9	80.4	81.1	82.1	83.6	80.4	86.4	87.6	86.1	84.1	86.9	87.9	90.4	90.4				135.6
DATE 07-09-75	200	76.5	78.3	80.3	79.8	80.3	81.0	85.0	85.8	87.0	88.5	90.0	92.0	94.3	92.8				137.4
RUN 134	250	81.5	82.5	85.3	85.0	85.0	85.0	88.8	89.0	90.3	92.0	93.5	95.3	95.5	93.3				140.3
TAPE J644	315	85.0	90.3	89.5	91.3	90.3	91.0	94.0	93.5	95.0	96.8	95.8	98.3	96.3	94.5				144.0
BAR 28.8 HG (97186. N/M2)	400	82.9	84.4	84.7	86.9	87.7	85.9	88.7	88.7	89.4	90.7	91.9	91.9	90.7	89.4				138.9
TAMB 69. DEG F (294. DEG K)	500	82.3	84.8	89.3	86.1	86.6	84.3	88.3	87.6	93.3	97.1	92.6	92.8	92.3	91.1				141.1
THET 66. DEG F (292. DEG K)	630	83.2	85.5	85.2	89.2	89.2	88.2	91.2	92.7	94.0	95.0	95.2	95.0	93.2	92.0				142.2
HACT 0. GM/M3 (. KG/M3)	800	83.3	85.8	89.3	88.3	89.5	90.0	91.8	90.3	91.3	92.5	92.5	91.3	91.3	89.3				140.7
NFA 9960. RPM (1043. RAD/SEC)	1000	84.7	86.5	86.5	90.2	91.5	90.0	92.5	93.2	94.7	97.7	95.7	91.5	91.5	90.5				143.1
NFK 9965. RPM (1033. RAD/SEC)	1250	86.0	89.0	88.8	91.3	92.8	93.3	94.0	95.5	97.0	98.5	96.5	93.8	92.8	92.5				144.8
NFD 10628. RPM (1113. RAD/SEC)	1600	86.1	86.4	89.9	91.1	96.9	95.4	97.4	98.1	99.9	96.9	96.6	94.4	92.9	90.1				146.6
NO. OF BLADES 44	2000	84.5	87.0	89.0	91.5	93.2	91.2	95.5	95.5	96.0	97.7	98.2	94.5	92.7	90.5				145.0
FAN TIP SPEED FT/SEC	2500	83.7	88.2	91.2	92.9	96.4	94.7	95.4	97.4	97.4	101.2	101.9	95.7	94.2	92.9				147.5
OVERALL MEASURED	3150	84.7	89.2	90.9	94.9	97.4	93.9	97.4	98.2	99.4	102.7	101.4	96.2	93.9	93.4				148.5
OVERALL CALCULATED	4000	86.7	87.2	89.4	93.9	99.7	93.2	99.4	101.4	100.2	100.2	103.7	97.2	94.7	95.4				149.7
PND8	5000	87.4	90.2	92.7	95.7	97.2	97.9	97.7	99.2	100.7	104.2	101.7	100.7	97.2	93.7				150.2
	6300	87.5	91.3	91.8	96.5	100.5	99.0	102.3	103.3	105.0	104.3	105.8	101.3	96.8	97.0				153.2
	8000	88.9	90.2	93.4	96.7	99.9	99.4	101.9	104.4	105.4	105.4	106.7	105.4	100.2	97.9				154.7
	10000	86.5	88.0	88.8	93.0	96.8	97.5	99.8	100.3	101.8	103.3	104.0	103.0	96.5	95.0				152.7
	12500	82.4	84.6	86.1	89.6	93.4	94.4	96.4	97.9	99.1	100.1	101.6	102.4	94.1	92.1				151.4
	16000	80.3	81.5	82.5	86.5	90.3	92.8	93.5	96.0	97.8	98.5	99.0	101.8	91.0	89.0				151.5
	20000	75.1	77.8	79.1	82.1	80.1	87.6	90.3	92.1	93.6	95.3	95.8	98.1	87.3	85.6				150.6
OVERALL MEASURED		96.2	100.7	102.5	105.3	108.4	107.3	109.8	111.2	112.3	113.4	113.8	112.2	108.4	107.6				162.2
OVERALL CALCULATED		110.9	113.4	115.5	118.3	121.7	119.8	122.7	123.8	125.0	126.0	126.3	123.5	120.7	119.7				

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 PROC. DATE - MONTH 41 DAY 0 HR. 0.9  
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL		
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.	0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)		
50	80.1	79.6	80.1	80.8	82.1	80.6	83.3	84.1	85.1	86.8	88.3	91.1	94.6	98.8				137.9	
63	81.5	80.5	82.5	83.5	83.5	82.0	86.8	85.5	86.3	87.3	88.8	92.5	95.3	99.3				138.9	
RADIAL 100. FT. (30. M)	80	78.6	79.6	80.6	80.6	81.1	81.6	84.9	85.1	86.4	87.6	89.1	91.6	93.9	97.4				137.7
VEHICLE PPG	100	79.1	79.6	81.6	81.4	82.1	81.9	84.9	84.9	85.4	86.9	87.9	90.9	92.4	93.1				136.4
CONFIG NC-080	125	78.4	79.2	79.4	80.7	81.4	80.7	83.2	83.7	84.4	85.7	87.4	88.7	89.9	90.7				134.8
LOC ATT FAN	160	82.6	78.9	82.4	83.6	81.9	84.1	83.9	84.4	87.4	89.6	90.1	89.6	92.1	92.9				137.1
DATE 07-09-79	200	81.8	80.8	83.3	83.8	83.0	84.5	86.5	87.5	89.5	92.0	93.0	94.8	96.3	94.5				139.0
RUN 135	250	84.0	85.0	87.5	87.3	87.3	87.8	91.3	91.3	91.5	92.8	94.8	95.8	98.0	95.3				142.8
TAPE 3644	315	85.5	88.3	88.8	91.3	92.5	91.3	94.3	94.5	95.8	96.0	96.5	97.8	97.0	94.8				144.3
BAR 28.8 HG	400	85.4	88.2	87.4	90.4	91.9	90.2	92.7	93.4	92.9	93.9	94.2	94.2	93.2	91.7				142.2
(97180. N/M2)	500	84.3	85.5	86.1	88.6	86.1	85.8	89.1	89.8	90.1	92.6	93.6	93.8	93.1	91.1				140.2
TAMB 69. DEG F	630	84.5	86.	87.2	89.0	89.2	88.7	91.0	92.2	92.2	95.0	95.0	95.0	93.2	91.5				142.0
(294. DEG K)	800	84.3	86.5	87.3	88.0	89.8	88.0	90.5	90.8	91.8	93.8	94.0	92.8	92.0	90.3				141.0
TWET 60. DEG F	1000	84.5	86.5	88.7	91.0	91.0	92.7	96.0	95.0	95.7	97.5	96.5	93.2	93.5	91.2				144.3
(292. DEG K)	1250	85.0	89.8	93.0	95.3	94.8	97.3	102.0	103.3	104.5	102.3	102.6	96.5	94.5	96.3				150.5
MACT 0. GM/M3	1600	85.6	87.6	88.9	90.9	93.6	92.9	96.6	97.6	96.6	100.4	98.6	96.1	92.1	91.9				146.2
(. KG/M3)	2000	87.7	91.5	92.2	93.0	95.5	92.5	97.7	100.7	98.0	101.2	98.7	96.0	94.0	94.5				147.6
NFA 10727. RPM	2500	85.7	89.9	91.7	94.4	97.9	94.9	98.2	98.4	99.7	102.2	100.9	96.2	94.9	93.7				146.4
(1123. RAD/SEC)	3150	87.9	91.9	93.9	97.4	99.2	98.2	101.9	102.2	103.4	108.4	103.7	99.2	98.4	97.4				152.6
NFX 16625. RPM	4000	89.9	89.9	93.2	97.2	102.2	95.7	102.4	104.7	104.2	103.2	106.4	101.2	97.9	99.7				152.9
(1112. RAD/SEC)	5000	90.2	93.9	95.4	98.9	99.4	100.4	100.4	102.4	104.2	108.2	104.7	104.2	100.7	96.9				153.6
NFD 10628. RPM	6300	89.3	93.5	94.3	99.5	102.3	101.0	103.8	104.5	106.0	105.8	106.5	102.8	98.3	98.5				154.5
(1113. RAD/SEC)	8000	91.7	93.9	96.2	99.9	102.2	101.9	104.4	106.7	106.9	107.7	108.7	107.4	102.9	100.4				156.9
NO. OF BLADES 44	10000	89.5	92.3	92.3	96.8	99.0	100.5	103.0	103.5	105.0	106.5	107.0	106.3	100.3	98.0				155.8
FAN TIP SPEED	12500	84.9	87.6	89.4	93.4	95.9	96.9	98.6	100.6	102.1	103.1	103.9	105.1	97.4	95.1				154.1
FT/SEC	16000	82.5	84.8	85.5	90.3	93.5	95.0	96.8	98.5	99.5	101.0	101.8	104.0	93.3	92.3				154.1
OVERALL MEASURED	20000	77.8	81.1	81.8	85.8	89.3	91.1	93.3	95.1	97.1	98.3	98.3	100.6	90.1	88.6				153.5
OVERALL CALCULATED		100.4	103.1	104.6	108.0	110.2	109.5	112.5	113.9	114.7	116.3	115.9	114.5	110.8	110.1				164.7
PNDB		113.5	116.2	117.7	120.8	123.6	121.9	125.1	126.6	126.8	129.6	128.5	125.9	123.3	122.8				

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIAN)																PWL	
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	79.1	78.8	79.3	78.8	80.6	78.6	81.8	82.6	83.3	84.6	86.8	89.1	92.1	95.8				135.6
63	78.0	79.8	82.3	79.3	80.8	80.0	85.3	83.3	84.5	85.5	87.0	89.8	92.3	95.8				136.2
RADIAL 100. FT. (30. M)	80	76.9	78.1	78.9	78.6	79.4	80.1	82.9	83.4	84.4	86.1	87.4	89.4	91.9	94.4			135.5
VEHICLE PPG CONFIG NC-080	100	77.9	77.9	79.9	79.6	80.4	79.9	82.6	82.9	83.9	85.1	86.6	88.4	89.6	90.4			134.2
LOC ATT FAN	125	76.7	77.7	77.9	78.7	79.7	78.7	81.2	81.9	82.4	83.7	84.9	86.2	87.4	88.4			132.6
DATE 07-09-75	160	76.4	80.6	81.6	82.4	83.4	80.1	85.9	87.4	86.1	84.4	86.9	88.4	90.6	91.1			135.7
RUN 136	200	77.0	78.5	80.3	80.0	80.5	80.8	84.8	86.0	86.8	88.8	90.5	92.0	94.5	92.8			137.5
TAPE 3644	250	81.5	82.8	85.3	84.8	85.0	85.3	88.8	89.0	90.8	92.3	93.3	95.5	95.8	93.8			140.5
BAR 28.8 HG (97186. N/M2)	315	85.8	90.3	90.0	91.8	90.0	90.8	93.8	93.5	94.8	96.5	95.3	98.0	96.0	94.3			143.8
TAMB 69. DEG F (294. DEG K)	400	82.7	85.2	85.2	86.9	87.7	85.9	88.7	89.2	89.7	90.9	91.7	91.9	90.2	89.2			139.0
THET 66. DEG F (292. DEG K)	500	83.1	84.3	89.6	86.6	86.8	84.3	88.8	88.1	93.6	97.3	93.3	92.8	91.8	90.8			141.4
HACT 0. GM/M3 (. KG/M3)	630	83.5	85.0	85.2	89.0	88.7	88.0	90.7	92.0	93.7	94.7	95.2	95.2	93.2	91.7			142.0
NFA 9960. RPM (1043. RAD/SEC)	800	83.0	86.3	89.3	88.8	90.5	89.6	91.3	89.8	91.3	92.8	93.0	91.8	90.8	89.0			140.8
NFK 9865. RPM (1033. RAD/SEC)	1000	85.0	86.2	86.7	90.0	90.7	89.5	92.7	93.2	94.5	97.5	96.0	99.0	91.2	90.5			143.0
NFD 10628. RPM (1113. RAD/SEC)	1250	86.0	89.3	88.5	91.8	93.0	93.5	95.0	95.3	98.0	98.5	97.0	94.5	93.0	93.3			145.3
NO. OF BLADES 44	1600	86.4	86.4	90.1	91.1	97.1	95.9	97.4	98.1	100.1	98.4	96.9	94.9	92.6	90.6			146.7
FAN TIP SPEED FT/SEC	2000	85.2	86.7	89.0	91.2	93.5	91.5	94.5	94.7	95.5	98.0	98.5	94.7	92.2	91.0			144.8
OVERALL MEASURED	2500	83.4	88.2	90.9	92.7	96.2	93.9	95.9	97.4	97.2	101.2	101.9	95.2	93.9	92.7			147.4
OVERALL CALCULATED	3150	84.9	88.9	90.4	94.9	97.2	93.9	97.9	97.7	99.9	102.4	101.2	96.2	93.7	92.9			148.5
PNOB	4000	86.4	86.4	89.4	93.9	99.4	93.2	99.2	101.9	100.4	100.2	103.4	97.9	94.7	95.9			149.8
	5000	87.7	90.4	92.9	95.9	96.9	98.2	96.9	99.4	101.2	104.4	101.4	100.9	97.4	94.2			150.4
	6300	87.8	91.3	92.0	96.3	100.5	99.0	102.3	103.3	105.0	104.5	106.0	101.8	97.3	97.0			153.3
	8000	88.4	90.2	93.7	96.9	100.2	99.2	101.9	104.2	105.4	105.4	106.7	106.2	100.4	97.9			154.8
	10000	86.0	86.3	88.5	92.5	96.0	97.5	99.8	100.5	102.0	103.3	104.5	102.8	96.3	95.0			152.7
	12500	82.1	83.9	86.4	89.9	93.4	94.4	96.1	97.9	99.1	100.1	101.6	102.1	93.9	92.4			151.4
	16000	80.0	81.5	82.8	87.3	91.3	92.3	93.5	96.0	97.0	98.8	99.3	101.5	90.8	89.5			151.6
	20000	75.6	77.6	79.3	82.3	86.3	88.1	89.8	92.3	93.3	95.1	96.6	97.8	87.3	85.6			150.6
OVERALL MEASURED																		
OVERALL CALCULATED																		
PNOB	98.3	100.7	102.6	105.3	108.3	107.3	109.8	111.2	112.4	113.4	113.9	112.4	108.4	107.6				162.2
	111.0	113.5	115.6	118.3	121.6	119.8	122.7	124.0	125.1	126.1	126.4	123.9	120.7	120.0				



## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 62 DAY 0 HR. 0.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	80.3	79.6	79.8	80.6	82.1	80.6	83.6	84.6	85.6	87.1	88.6	91.1	94.6	98.8				138.0
63	80.5	80.5	82.0	83.5	83.3	82.0	86.3	85.5	85.8	87.3	89.0	92.5	95.3	95.8				138.7
RADIAL 100. FT. (30. M)	80	77.9	79.6	80.1	80.4	80.9	81.6	84.4	85.4	86.4	87.6	89.9	91.6	94.4				137.9
VEHICLE PPG	100	79.1	79.4	81.1	80.9	81.9	81.4	84.6	84.6	85.4	86.6	88.1	90.4	91.6				136.0
CONFIG NC-080	125	78.4	78.9	79.4	80.4	80.9	80.4	82.9	83.4	84.4	85.9	87.4	88.7	89.4				134.7
LOC ATT FAN	160	82.6	79.4	83.1	83.9	82.1	84.6	84.1	84.4	87.1	89.4	91.1	90.4	93.4				137.6
DATE 07-07-75	200	81.8	81.3	84.3	84.0	83.5	85.0	87.3	88.0	89.8	92.0	93.3	95.5	97.5				140.6
RUN 137	250	84.0	85.5	88.0	87.8	88.0	88.3	91.3	91.8	93.0	95.0	96.0	97.6	98.0				142.9
TAPE J644	315	86.0	88.3	88.8	91.5	93.3	91.8	94.3	94.8	95.3	96.0	96.3	97.3	96.8				144.2
BAR 28.8 HG	400	85.2	87.2	86.9	90.2	92.2	90.4	92.4	92.7	92.2	92.9	93.7	93.4	93.2				141.8
(97186. N/M2)	500	84.8	85.6	86.3	89.1	86.3	86.8	89.1	89.8	90.6	93.1	94.6	94.6	93.3				140.7
TAMB 70. DEG F	630	84.5	87.0	87.2	89.0	89.7	88.7	91.5	92.2	92.7	94.7	94.7	94.2	93.5				141.9
(294. DEG K)	800	84.5	86.5	87.5	88.0	89.0	88.3	90.5	90.5	92.5	94.5	94.5	92.8	92.8				141.3
THET 66. DEG F	1000	85.0	87.2	89.0	90.7	91.5	92.5	95.2	95.0	95.7	98.5	96.7	93.0	93.7				144.4
(292. DEG K)	1250	85.3	90.8	93.0	96.0	94.3	97.8	98.5	102.0	102.5	101.5	103.0	95.5	95.0				140.4
MACT 0. GM/M3	1600	85.4	87.6	88.6	91.1	92.1	93.9	97.6	98.4	96.4	99.6	98.1	94.9	92.6				146.1
(. KG/M3)	2000	87.0	89.0	91.0	93.2	94.7	93.5	97.2	100.0	97.2	99.7	98.5	96.0	95.5				147.1
NFA 10729. RPM	2500	85.4	89.9	91.7	95.4	98.7	95.2	97.9	98.4	100.2	102.2	100.9	95.9	94.7				148.6
(1123. RAD/SEC)	3150	88.2	92.5	93.7	98.2	99.5	96.2	101.5	102.5	104.5	105.5	104.0	99.5	97.5				151.9
NFK 10617. RPM	4000	89.9	90.2	93.7	97.4	102.2	95.9	102.2	104.9	103.9	103.2	105.9	100.7	98.2				152.7
(1112. RAD/SEC)	5000	90.9	93.7	96.4	99.2	99.4	100.7	100.4	102.7	104.2	107.4	104.4	104.4	100.9				153.5
NFD 10628. RPM	6300	89.8	93.8	94.3	99.8	102.0	100.8	104.0	104.3	105.5	105.5	106.8	102.8	98.5				154.4
(1113. RAD/SEC)	8000	92.2	93.9	96.7	100.4	102.4	102.4	104.9	107.2	106.9	107.9	109.2	107.9	102.9				157.2
No. of BLADES 44	10000	90.0	91.5	92.5	97.3	99.5	101.0	102.8	103.5	105.0	106.3	107.0	106.5	100.3				155.0
FAN TIP SPEED	12500	89.7	87.2	89.7	93.7	96.2	97.4	98.9	100.9	101.7	103.4	103.9	105.4	96.9				154.3
FT/SEC	16000	82.6	84.3	85.8	90.3	93.3	95.6	96.8	98.8	99.3	101.3	102.1	104.1	93.8				154.2
OVERALL MEASURED	20000	78.4	80.9	81.9	85.6	89.1	90.9	93.9	95.6	96.9	98.4	98.9	100.1	89.9				153.5
OVERALL CALCULATED		100.6	103.0	104.8	108.4	110.3	109.7	112.3	113.9	114.5	115.7	116.0	114.7	110.9				164.7
PNFB		115.6	116.1	118.2	121.2	123.7	122.1	124.8	125.7	126.9	128.5	128.3	126.0	123.5				

REPRODUCTION OF THIS  
ORIGINAL PAGE IS POOR

SPL INPUT AT STD	FREQ.	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)																PWL	
		ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.	(0.	(0.	
	50	77.6	77.6	78.6	78.8	79.6	78.1	81.1	81.3	82.1	83.3	85.1	87.3	90.3	94.1				134.1
	63	76.0	78.0	81.5	77.8	79.3	78.5	84.8	82.5	83.3	84.3	85.5	88.3	90.8	94.0				134.8
RADIAL 100. FT.	80	75.1	76.4	77.9	77.9	78.6	78.9	81.9	82.1	83.4	84.6	86.4	87.6	89.1	92.1				133.8
( 30. M)	100	75.9	76.6	78.6	78.6	78.9	78.4	81.4	81.4	82.1	83.9	84.9	87.4	87.6	88.4				132.7
VEHICLE PPG	125	75.4	75.9	76.7	77.2	77.7	76.7	80.4	80.4	80.4	82.2	83.7	84.2	84.9	85.9				130.8
CONFIG NC-080	160	81.4	81.1	85.4	81.4	81.1	79.9	86.9	86.9	82.1	82.9	88.6	85.4	89.1	89.1				135.1
LOC ATT FAN	200	75.0	76.5	78.3	77.8	78.8	79.0	83.3	83.8	84.8	87.0	88.3	90.0	92.0	90.3				135.4
DATE 07-09-75	250	79.8	81.3	83.5	83.3	83.5	83.3	86.3	87.5	88.5	90.3	91.5	93.0	93.3	91.3				138.3
RUN 138	315	83.0	83.5	85.8	87.0	87.0	86.3	90.0	91.0	91.5	92.0	94.3	94.8	93.0	91.8				140.6
TAPE 3644	400	81.4	82.9	83.7	85.2	86.2	83.9	87.7	87.2	88.2	89.2	89.9	89.7	88.7	87.2				137.2
BAR 28.8 HG	500	80.8	82.1	86.6	87.1	84.6	84.6	90.3	87.8	90.1	91.8	92.3	90.6	89.6	88.3				138.9
(97186. N/M2)	630	80.2	82.7	83.7	85.7	86.7	85.0	89.0	88.5	89.7	91.7	92.0	90.7	90.5	88.0				138.8
TAMB 70. DEG F	800	81.8	85.0	87.3	90.8	87.3	89.3	91.8	90.5	90.0	92.3	90.8	91.5	90.3	89.0				140.2
(294. DEG K)	1000	83.7	85.0	88.0	88.7	89.7	89.2	92.5	92.5	93.7	96.0	94.5	90.5	90.7	88.7				142.0
THET 66. DEG F	1250	83.3	87.5	86.5	89.3	91.3	89.0	92.5	94.0	95.0	98.8	96.5	92.5	91.3	90.5				143.7
(292. DEG K)	1600	83.1	84.6	87.9	89.4	91.6	89.9	93.6	92.9	94.4	97.6	95.9	92.1	90.6	89.9				143.3
HACT 0. GH/M3	2000	83.2	86.2	86.5	89.0	93.5	92.0	94.7	94.5	96.0	97.7	97.0	93.0	91.2	90.0				144.4
(. KG/M3)	2500	80.7	85.7	86.7	89.7	92.9	90.4	93.7	95.2	95.2	98.4	101.7	94.9	92.7	90.4				145.6
NFA 9364. RPM	3150	81.2	85.0	87.7	91.5	92.7	90.7	95.5	94.7	97.5	99.2	99.7	93.7	91.7	91.0				145.8
( 980. RAD/SEC)	4000	83.7	83.4	86.7	90.4	95.4	89.7	96.4	97.9	97.9	97.4	100.9	94.9	92.4	92.4				146.7
NFK 9266. RPM	5000	84.9	87.7	89.4	93.7	94.2	95.4	95.2	96.9	98.4	102.9	99.7	98.9	95.7	91.7				148.3
( 970. RAD/SEC)	6300	86.0	89.5	89.8	94.5	99.3	97.6	101.3	102.3	104.8	104.8	105.8	101.3	96.5	96.3				152.8
NFD 10628. RPM	8000	84.9	87.4	89.9	93.7	96.7	95.9	98.4	100.9	101.7	102.9	104.2	103.4	97.4	94.2				151.8
(1113. RAD/SEC)	10000	82.8	85.8	85.8	90.5	93.5	95.0	96.8	97.5	99.5	101.0	101.5	100.5	93.8	91.5				150.1
NO. OF BLADES 44	12500	79.7	81.7	83.7	87.2	90.4	91.7	93.9	95.2	97.2	98.4	99.9	99.7	91.9	89.4				149.2
FAN TIP SPEED	16000	77.1	78.8	80.1	83.8	87.8	89.6	91.1	92.8	94.6	97.1	97.6	99.3	89.3	87.1				149.3
FT/SEC	20000	73.4	74.9	76.6	79.6	83.1	84.6	87.1	88.9	90.9	93.9	94.4	95.4	85.1	83.1				148.3
OVERALL MEASURED																			
OVERALL CALCULATED		95.9	98.3	100.0	103.0	105.6	104.7	107.7	108.7	110.2	111.8	112.3	110.2	106.4	105.4				160.1
PNDB		108.5	111.2	112.8	116.0	119.1	117.7	121.1	121.9	123.6	124.7	125.4	122.0	118.9	117.9				

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 83 DAY 0 HR. 0.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)																	PWL
	ANGLES FROM INLET IN DEGREES (AND RADIAN)																	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	77.1	77.1	76.6	76.6	77.6	75.3	79.3	78.6	79.1	80.6	82.1	83.6	85.8	89.8				130.6
63	73.3	75.3	80.0	75.3	77.3	74.5	83.0	79.0	79.5	80.5	81.8	83.8	86.3	89.8				131.1
RADIAL 100. FT.	80	72.4	73.9	75.4	74.9	76.1	75.6	79.1	78.9	80.1	81.1	82.4	84.1	85.9	88.4			130.4
(30. M)	100	73.4	74.4	75.1	75.4	76.6	75.4	78.9	78.4	79.1	80.9	82.1	83.4	83.9	84.6			129.4
VEHICLE PPU	125	72.4	75.4	76.9	76.2	81.9	79.4	83.9	81.7	81.9	78.9	80.4	82.4	81.7	82.9			130.6
CONFIG NC-080	160	71.4	73.9	75.9	75.4	80.6	78.4	83.1	81.1	81.4	79.1	80.9	83.4	82.9	84.4			130.5
LOC ATT FAN	200	71.5	73.3	75.0	74.8	75.8	75.5	79.8	80.0	81.0	83.3	85.0	86.5	88.0	86.8			131.8
DATE 87-09-75	250	77.5	79.0	80.5	80.8	81.5	80.3	84.0	84.5	86.0	87.5	89.0	89.5	89.8	88.0			135.4
RUN 139	315	76.8	80.8	81.8	83.0	83.3	81.8	85.8	86.0	87.5	88.3	89.5	90.3	89.3	87.3			136.3
TAPE 3644	400	78.4	79.9	80.7	82.4	83.4	81.4	84.7	84.9	86.2	87.4	86.4	85.4	83.4				134.3
BAR 28.8 MG	500	75.8	78.3	78.6	78.8	79.1	77.3	81.3	81.6	82.8	84.3	85.8	87.1	85.8	84.1			132.6
(97186. N/M2)	630	80.2	82.5	80.7	83.5	83.2	84.2	85.5	87.5	88.0	88.0	89.5	89.2	87.0	87.5			136.5
TAMR 73. DEG F	800	79.3	82.3	81.5	82.3	85.0	83.3	85.0	86.0	86.0	89.0	88.3	87.3	86.8	85.8			135.8
(294. DEG K)	1000	80.0	81.2	83.5	85.7	86.5	88.2	91.5	88.5	91.7	93.5	94.2	90.2	88.2	87.0			140.1
TWET 66. DEG F	1250	79.0	81.8	83.5	85.5	86.8	85.8	88.8	89.5	91.5	94.0	94.8	93.8	89.0	87.3			140.5
(292. DEG K)	1600	78.9	82.9	81.4	84.4	87.9	87.9	89.9	89.9	89.9	94.9	94.1	92.4	89.6	86.6			140.5
HACT 0. GM/H3	2000	77.2	80.5	80.2	84.0	88.0	85.5	88.5	90.2	89.7	92.5	94.2	89.7	87.5	85.2			139.6
(. KG/H3)	2500	76.2	80.4	81.2	83.9	88.2	85.7	89.2	90.4	91.2	93.4	94.7	89.4	88.2	86.2			140.2
NFA 8565. RPM	3150	77.0	80.2	82.0	86.5	88.0	85.5	90.5	90.2	93.2	96.0	96.0	91.2	88.0	85.7			141.8
(897. RAD/SEC)	4000	79.4	79.2	81.7	85.7	91.4	85.7	92.2	94.4	93.7	93.4	96.9	92.2	88.9	89.2			142.8
NFK 8476. RPM	5000	81.9	84.7	86.4	89.7	91.4	92.7	92.7	94.9	96.4	100.4	97.4	97.2	92.9	89.2			145.9
(887. RAD/SEC)	6300	83.3	86.8	86.3	91.3	95.8	94.5	97.8	99.3	101.8	102.8	105.5	100.0	94.8	93.8			150.7
NFD 10628. RPM	8000	80.4	81.7	85.2	88.4	92.2	90.7	93.9	95.9	97.2	97.9	99.9	99.7	93.4	90.2			147.3
(1113. RAD/SEC)	10000	79.0	81.0	81.8	85.5	89.8	90.8	92.8	94.0	96.3	97.3	98.8	97.5	91.0	88.8			146.8
NO. OF BLADES 44	12500	76.2	78.2	79.9	83.4	86.7	88.2	90.4	92.2	94.7	96.4	97.7	98.9	89.9	86.9			147.0
FAN TIP SPEED	16000	73.6	75.1	76.3	79.6	83.6	85.3	86.8	89.6	91.3	93.3	94.6	97.1	86.1	84.3			146.2
FT/SEC	20000	69.4	72.4	72.6	75.6	78.9	80.4	84.1	85.4	87.6	89.6	90.6	93.6	82.9	80.4			145.1
OVERALL MEASURED																		
OVERALL CALCULATED		92.3	94.7	95.6	98.6	101.8	101.0	103.8	105.1	106.8	108.5	109.8	107.9	103.2	102.0			157.0
PNDB		105.0	107.9	108.7	111.9	115.4	114.1	117.4	118.5	120.3	121.7	123.5	119.9	116.1	114.8			

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)																PWL	
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	72.6	71.8	73.1	72.3	74.1	71.1	75.8	74.6	75.6	77.1	78.3	79.8	81.8	84.3				126.5
63	70.3	72.0	79.5	71.0	75.0	71.0	82.3	75.3	75.3	76.5	78.0	80.0	81.3	83.8				127.7
RADIAL 100. FT.	80	69.1	69.9	71.6	70.9	73.1	71.9	76.9	75.1	76.6	76.9	78.6	79.6	80.9	82.4			126.1
( 33. M)	100	69.9	70.4	72.1	71.1	72.4	70.9	74.6	73.9	75.1	76.4	77.9	79.1	79.4	79.6			125.1
VEHICLE PPG	125	69.7	70.9	69.9	70.9	73.4	70.2	77.7	74.4	74.9	77.9	75.7	79.4	78.4	78.7			125.3
CONFIG NC-080	160	67.6	67.4	68.9	68.6	70.6	69.1	73.1	71.9	72.6	73.9	75.6	76.4	78.4	79.1			123.2
LOC ATT FAN	200	68.5	70.0	72.3	71.3	72.3	71.8	76.3	76.0	77.0	78.5	80.0	81.0	82.5	81.8			127.1
DATE 07-09-75	250	75.3	75.3	78.5	78.5	78.5	77.3	81.0	81.0	81.5	83.0	84.5	85.5	86.0	84.0			131.6
RUN 14G	315	74.8	75.8	77.8	78.8	79.3	78.0	81.8	81.5	83.3	84.3	85.5	86.0	85.0	82.0			132.1
TAPE 3644	400	74.2	75.4	75.9	78.2	79.9	76.9	80.7	80.9	81.7	82.9	84.9	85.4	82.4	78.9			131.2
BAR 28.8 HG	500	72.8	75.1	75.6	76.3	76.8	73.6	78.1	78.6	79.3	80.3	81.8	83.3	81.6	80.6			129.0
(97186. N/M2)	630	74.2	77.0	78.0	82.0	82.7	80.2	83.5	85.0	84.5	86.7	87.7	87.0	85.2	83.2			134.2
TAMB 78. DEG F	800	74.3	77.5	78.5	78.8	80.8	78.3	82.3	81.5	84.0	87.5	86.0	83.8	83.3	80.3			132.9
(294. DEG K)	1000	76.0	76.5	78.0	81.7	80.7	81.2	85.7	85.0	86.7	89.0	88.7	87.0	84.5	82.7			135.3
TWET 66. DEG F	1250	75.3	77.5	79.3	81.3	83.0	81.5	85.8	85.3	88.0	89.0	89.8	89.3	88.0	83.3			136.3
(292. DEG K)	1600	75.4	76.6	77.4	80.1	81.4	80.4	85.1	84.9	85.9	89.6	90.1	87.1	85.4	82.6			135.7
HACT 0. GM/M3	2000	75.2	77.0	77.5	80.2	82.7	80.7	85.5	87.2	87.2	90.5	91.2	87.5	85.0	82.7			136.7
(. KG/M3)	2500	72.9	76.7	77.2	80.4	83.2	82.2	85.9	87.2	88.4	90.9	91.7	87.4	85.4	83.2			137.2
NFA 4400 RPM	3150	74.0	77.2	78.2	82.7	84.0	82.0	87.5	88.0	91.2	93.0	93.5	90.0	85.7	83.7			139.2
( 944. RAD/SEC)	4000	77.7	76.7	79.2	82.2	83.9	89.7	92.4	92.4	92.7	95.9	92.2	88.2	87.7				141.4
NFK 9400 RPM	5000	82.7	84.4	86.4	89.4	90.2	92.9	93.2	96.4	96.7	103.7	99.4	100.2	95.4	90.2			145.1
( 966. RAD/SEC)	6300	78.8	81.8	81.3	85.8	88.8	89.8	92.3	94.0	96.5	98.8	101.0	97.0	91.8	89.5			146.2
NFD 10628 RPM	8000	77.7	77.9	80.4	83.7	86.2	86.7	89.4	92.2	93.7	95.2	97.2	96.9	90.9	86.9			144.0
(1113. RAD/SEC)	10000	77.8	77.5	78.3	82.5	85.5	87.0	89.3	91.3	94.3	95.8	97.0	96.8	89.3	86.8			144.8
NO. OF BLADES 44	12500	72.9	73.7	75.9	78.9	82.4	83.9	85.7	88.4	91.2	92.9	94.9	96.4	87.4	83.9			143.9
FAN TIP SPEED 16000	20000	70.8	71.8	73.1	75.3	79.6	81.6	83.6	86.1	88.6	90.8	92.3	95.3	84.6	81.6			143.8
FT/SEC	20000	67.9	70.4	70.6	71.6	74.9	75.9	78.9	81.1	83.4	86.1	87.1	91.1	80.1	76.9			141.8
OVERALL MEASURED		89.5	91.0	92.5	95.2	97.3	97.7	100.3	102.2	104.2	107.2	107.1	106.3	101.3	98.5			154.5
OVERALL CALCULATED		103.4	105.0	106.6	109.4	111.0	111.7	113.9	116.0	117.8	121.4	120.1	119.2	115.3	111.8			

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 PROC. DATE - MONTH 00 DAY 0 HR. 0.9  
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL		
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)		0. (0.)	0. (0.)
	50	69.8	68.8	71.6	68.6	70.1	66.1	73.3	70.1	71.1	72.3	74.3	75.3	75.1	77.1				121.0
	63	67.8	68.5	78.8	65.5	73.0	64.8	82.3	71.8	68.8	70.0	72.5	76.8	73.8	74.3				124.9
RADIAL 100. FT. (30. M)	80	64.6	64.9	65.9	64.6	65.9	65.6	69.1	68.1	68.9	70.1	71.4	72.6	72.9	74.4				118.9
VEHICLE PPG	100	70.4	69.4	69.4	71.1	70.9	69.9	71.4	69.1	71.1	70.4	72.1	74.9	71.6	72.1				120.9
CONFIG NC-080	125	63.2	63.4	64.9	65.2	64.2	62.4	65.9	65.9	66.9	67.9	68.9	68.9	69.4	69.9				116.4
LOG ATT FAN	160	63.7	63.7	64.6	63.9	65.6	63.9	67.4	65.9	66.1	67.1	68.9	69.4	71.1	70.1				116.8
DATE 07-09-75	200	65.0	66.0	67.8	66.5	68.5	66.5	70.8	70.3	71.5	73.3	75.0	75.3	75.0	74.5				121.3
RUN 141	250	69.3	69.8	72.8	72.3	72.3	71.5	74.8	74.5	76.0	77.3	78.8	79.5	79.0	77.5				125.5
TAPE 3872	315	71.3	72.0	74.5	75.8	75.3	73.3	77.3	78.5	79.0	80.3	81.3	81.5	79.5	77.5				128.0
BAR 28.8 HG	400	68.7	70.2	70.7	72.4	74.4	72.4	75.9	75.2	76.2	76.9	77.7	78.2	75.4	73.2				125.1
(97152. N/M2)	500	70.3	74.3	71.1	70.6	71.6	69.6	73.6	73.6	74.1	77.1	79.6	80.3	77.1	77.8				125.4
TAMB 67. DEG F	630	68.5	71.5	71.5	73.7	74.2	73.2	76.5	75.7	78.2	80.5	82.0	81.7	79.2	77.7				127.7
(293. DEG K)	800	68.0	69.8	72.0	71.8	73.0	72.0	75.0	75.8	76.8	79.5	79.8	80.3	79.5	75.5				126.5
THET 65. DEG F	1000	68.5	70.7	72.5	73.0	75.0	72.7	77.2	78.2	80.0	82.7	82.0	82.2	78.2	77.2				129.7
(291. DEG K)	1250	69.8	72.5	72.3	74.8	76.8	75.8	77.8	79.3	81.5	85.3	85.0	85.5	81.3	78.8				131.1
HACT 0. GM/M3	1600	68.6	70.6	71.1	73.1	75.6	74.1	79.1	80.1	81.6	85.4	85.1	84.4	79.6	76.6				130.9
(. KG/M3)	2000	69.7	71.2	72.0	74.5	78.0	75.5	79.5	82.0	81.7	85.7	86.0	85.0	80.5	78.7				131.8
NFA 6284. RPM	2500	68.9	71.7	73.2	74.7	77.4	76.7	81.4	82.2	84.7	87.9	88.2	86.2	82.4	79.9				133.7
(658. RAD/SEC)	3150	72.2	75.2	76.4	79.7	81.9	78.9	84.4	86.2	89.9	92.9	93.4	93.2	86.7	83.4				138.9
NFK 6236. RPM	4000	76.4	74.9	78.4	79.7	84.2	81.7	87.7	90.9	91.9	93.7	96.7	94.4	88.9	87.9				141.4
(653. RAD/SEC)	5000	78.9	78.7	82.2	83.2	86.7	86.4	88.4	91.9	93.9	99.4	97.9	98.9	93.2	89.7				144.7
MFD 10628. RPM	6300	72.2	75.2	75.0	78.2	81.5	82.0	85.5	87.0	89.5	92.0	95.2	92.5	85.2	83.7				139.9
(1113. RAD/SEC)	8000	72.9	73.1	75.9	77.6	85.1	80.4	84.1	86.9	88.1	90.6	93.9	94.1	86.6	83.1				139.9
NO. OF BLADES 44	10000	72.2	72.5	73.7	75.5	78.2	80.5	83.2	85.0	87.7	91.2	93.2	94.0	85.7	82.5				140.3
FAN TIP SPEED	12500	68.1	69.3	70.8	72.1	75.3	77.6	79.8	82.8	84.8	88.8	90.6	92.6	83.6	80.1				139.3
FT/SEC	16000	66.7	68.2	70.5	69.0	72.0	74.2	77.0	79.7	81.5	85.7	87.5	91.5	80.5	77.2				138.9
OVERALL MEASURED	20000	65.0	68.3	71.0	68.8	67.8	71.0	74.0	75.0	77.0	80.8	82.5	86.5	76.0	72.0				136.8
OVERALL CALCULATED		85.3	86.2	88.5	89.4	92.3	91.6	95.3	97.6	99.5	103.2	104.0	104.1	97.8	95.3				150.6
PNDB		99.2	99.9	102.3	103.5	109.5	109.7	109.0	111.3	113.2	117.3	117.2	117.4	112.1	109.3				

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																		PWL
		30. (0.52)	40. (0.70)	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)	0. (0.)		
50	69.1	68.8	71.6	69.1	70.1	66.8	73.6	69.8	70.6	72.6	73.6	74.8	75.1	77.1				121.7		
63	67.8	68.3	79.0	66.5	73.5	65.5	82.3	72.3	69.8	70.8	72.3	77.0	74.5	75.5				125.1		
RADIAL 100. FT. (30. M)	80	64.4	65.6	66.6	65.9	65.9	66.9	69.9	68.6	69.1	70.6	72.1	72.9	73.6	74.9			119.5		
100	67.6	68.1	69.4	71.9	71.9	68.6	69.6	70.4	71.1	71.1	73.9	75.9	73.6	73.6				121.4		
VEHICLE PPG	125	63.4	63.4	66.2	65.9	65.4	63.7	66.4	66.4	67.4	68.7	69.9	69.9	70.2	70.9			117.2		
CONFIG NC-080	160	63.9	63.9	64.9	64.4	66.1	64.1	68.4	66.9	67.4	67.9	69.1	69.9	71.1	70.9			117.3		
LOC ATT FAN	200	65.0	65.8	68.3	67.3	68.0	67.3	71.8	71.5	72.0	73.8	75.0	76.0	75.5	75.0			121.9		
DATE 07-09-75	250	69.5	70.0	72.5	72.5	72.5	71.8	75.3	75.5	76.8	78.0	79.0	79.8	79.0	78.0			125.9		
RUN 142	315	71.3	72.0	75.3	76.0	75.0	74.3	78.0	78.0	80.0	80.3	81.5	82.0	80.3	77.8			128.3		
TAPE 3872	400	69.9	70.9	71.7	73.2	74.9	72.4	76.4	75.9	76.2	77.4	78.7	78.2	76.7	73.2			125.6		
RAR 28.8 HG (97152. N/M2)	500	71.1	72.6	72.3	72.8	71.1	70.6	74.6	75.8	76.1	77.6	79.6	81.3	78.1	79.3			126.2		
TAMB 67. DEG F (293. DEG K)	600	68.8	71.3	73.5	72.3	74.8	72.0	75.8	77.3	77.3	80.3	81.5	80.8	78.5	75.3			127.3		
1000	69.7	71.7	72.5	74.5	75.2	74.0	78.7	78.5	79.5	82.5	83.2	82.7	79.0	78.0			129.2			
TMET 65. DEG F (291. DEG K)	1250	70.9	74.0	72.8	75.3	75.8	75.5	78.8	80.0	82.3	85.3	86.3	87.0	81.3	79.5			131.8		
1500	69.4	70.9	71.4	74.4	76.9	74.0	79.4	81.1	81.9	85.4	85.4	84.4	79.6	77.1			131.2			
HACT 0. GM/M3 (. KG/M3)	2000	70.5	71.7	74.0	75.7	78.7	76.2	80.7	83.0	83.7	87.2	88.2	85.7	81.7	79.2			133.3		
2500	68.9	72.4	73.7	75.7	78.2	77.2	80.9	83.2	84.9	87.4	88.9	86.2	82.9	80.4			133.9			
NFA 6449. RPM (675. RAD/SEC)	3150	72.2	74.9	76.7	79.7	81.9	79.2	84.2	86.7	89.9	93.2	93.4	93.4	86.4	83.7			139.1		
4000	76.2	74.4	77.9	80.2	84.2	81.7	88.2	90.9	91.7	92.9	95.9	93.7	88.4	86.7			140.9			
NFK 6400. RPM (670. RAD/SEC)	5000	80.2	80.4	82.7	84.4	86.9	87.7	89.2	92.7	96.2	100.2	98.9	99.4	94.2	90.2			145.7		
6300	73.2	75.7	75.2	78.7	82.2	82.5	86.0	86.2	90.7	92.5	95.7	92.5	86.0	84.5			140.5			
NFD 10628. RPM (1113. RAD/SEC)	8000	72.6	74.1	76.1	78.1	80.6	80.9	84.4	87.6	89.1	91.1	94.1	94.9	86.6	83.4			140.5		
10000	73.0	73.0	74.0	76.5	79.2	81.5	84.7	86.5	89.2	91.7	94.2	94.5	87.0	83.2			141.2			
NO. OF BLADES 44	12500	69.1	69.3	71.3	72.6	76.3	77.8	80.8	83.3	85.8	88.6	91.1	93.6	83.8	79.8			139.9		
FAN TIP SPEED	16000	68.2	69.2	69.7	70.5	72.5	75.2	77.7	80.5	82.5	86.2	88.5	93.0	80.7	77.7			140.0		
FT/SEC	20000	67.3	69.3	72.0	68.8	68.8	71.0	74.0	76.0	78.3	80.8	83.8	82.3	76.0	73.3			138.0		
OVERALL MEASURED																				
OVERALL CALCULATED		85.8	86.8	88.9	90.2	92.6	92.3	95.9	98.2	100.6	103.6	104.5	104.6	98.3	95.5			151.2		
PNDB		100.0	100.0	102.8	104.4	106.8	106.5	109.5	112.1	114.6	117.9	118.0	117.9	112.7	109.7					

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 16 DAY 0 HR. 0.9  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

SPL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	(0.)
50	70.6	70.3	71.8	69.8	71.1	67.3	74.3	70.6	72.1	73.8	75.3	76.3	76.6	78.6				122.9
63	68.8	69.0	79.3	67.5	73.5	66.8	82.5	72.5	70.8	72.3	73.8	77.8	75.5	77.3				125.6
RADIAL 100. FT. (30. M)	80	65.4	66.1	68.1	66.9	67.4	68.1	71.1	70.4	71.1	72.1	73.4	74.4	75.4	76.6			121.0
100	69.4	70.1	70.9	72.9	70.9	69.4	72.4	71.6	70.6	73.1	76.6	74.6	74.6	74.4				127.4
VEHICLE PPG	125	66.4	67.2	68.9	70.4	68.4	66.4	69.9	69.2	68.2	70.9	73.9	70.7	72.2	72.4			119.9
CONFIG NC-080	160	64.6	64.9	65.6	65.1	66.9	64.9	68.6	67.6	68.1	68.9	70.6	70.9	72.6	71.9			118.3
LOC ATT FAN	200	65.3	66.5	69.0	68.0	69.0	69.0	72.3	72.0	73.5	75.8	76.5	76.8	76.3				122.8
DATE 07-09-75	250	70.3	71.3	73.8	73.5	73.8	75.3	76.5	77.8	79.3	80.3	80.8	80.5	79.3				127.1
RUN 143	315	72.5	74.3	75.3	76.3	76.5	76.5	80.5	80.5	80.8	81.3	82.0	82.8	82.3	78.3			129.6
TAPE 3872	400	70.4	72.2	72.2	74.2	76.7	74.7	77.4	77.7	77.4	78.7	79.9	79.9	77.4	74.2			126.0
BAR 28.8 HG	500	69.6	71.8	72.3	72.8	72.3	71.8	75.1	76.3	78.6	76.8	79.6	80.1	78.8	78.6			126.4
(97152. N/M2)	630	71.2	73.0	74.2	75.2	76.2	74.5	78.2	79.2	81.0	83.0	83.5	83.2	80.5	78.5			129.7
TAMB 67. DEG F	800	69.3	71.5	74.8	72.5	77.5	75.0	76.5	77.0	78.5	81.8	83.0	81.8	79.0	76.8			128.6
(293. DEG K)	1000	71.2	72.2	73.5	75.0	76.5	75.0	79.2	79.5	81.0	84.0	84.2	84.0	80.0	78.0			130.3
TWET 65. DEG F	1250	72.0	72.8	74.3	77.5	77.8	76.3	79.5	80.5	82.5	85.5	86.0	86.0	82.8	79.3			131.9
(291. DEG K)	1600	69.6	71.6	72.6	74.9	77.1	75.0	79.4	80.6	81.6	85.4	85.1	84.6	80.6	77.1			131.2
WACT 0. CM/M3	2000	71.2	73.7	73.7	77.0	80.7	78.2	82.2	83.0	83.2	87.2	88.2	86.7	82.7	80.5			133.7
(. KG/M3)	2500	69.9	73.2	74.4	76.4	79.2	77.9	82.2	83.9	85.2	88.2	88.7	85.9	83.2	80.7			134.2
NFA 6747. RPM	3150	72.7	75.7	76.9	80.4	82.9	79.4	84.7	86.4	89.2	92.7	92.9	91.4	85.9	82.9			138.4
(706. RAD/SEC)	4000	75.9	74.4	77.7	80.2	84.4	81.4	87.7	90.4	91.2	92.2	95.7	92.4	87.2	86.2			140.4
NFK 6696. RPM	5000	80.9	81.7	84.9	86.4	88.9	89.7	89.9	94.2	96.9	101.2	98.7	100.4	94.9	89.7			145.5
(701. RAD/SEC)	6300	74.2	77.6	76.5	81.0	83.5	84.2	87.5	89.2	92.0	93.7	96.5	93.2	87.0	85.2			141.5
NFD 10628. RPM	8000	73.6	74.6	77.4	79.6	82.1	82.1	85.4	88.4	89.9	91.6	94.6	95.1	87.9	84.1			141.0
(1113. RAD/SEC)	10000	74.7	74.5	75.5	78.5	80.7	83.2	86.2	87.5	91.0	93.2	95.0	95.0	87.7	84.0			142.3
NO. OF BLADES 44	12500	69.6	70.6	72.3	74.1	77.6	79.8	81.8	84.3	86.8	89.3	91.8	93.6	84.8	80.8			140.5
FAN TIP SPEED	16000	68.5	70.7	71.5	72.0	74.7	77.0	79.0	81.5	84.2	87.5	89.5	93.2	82.2	80.2			140.9
FT/SEC	20000	67.0	69.8	71.3	69.3	70.3	71.6	75.8	77.8	79.3	82.8	84.5	88.3	77.0	73.8			138.7
OVERALL MEASURED																		
OVERALL CALCULATED		86.6	87.8	90.0	91.5	94.0	93.8	96.7	99.0	101.2	104.3	104.7	104.9	99.0	95.7			151.8
PND8	100.8	101.9	104.3	106.0	108.4	108.1	110.3	113.1	115.3	118.0	118.0	118.4	113.5	109.7				

SPL INPUT AT STD	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.	(0.	(0.	
	50	70.3	69.8	72.1	70.1	71.6	68.1	74.3	70.8	72.3	74.1	75.1	76.8	77.8	80.1				123.4
	63	69.3	69.3	79.3	67.8	73.5	67.0	83.0	73.3	71.3	72.5	74.0	77.8	76.3	78.5				126.0
RADIAL 100. FT. (30. M)	80	65.9	66.9	68.4	67.9	68.1	68.6	71.6	70.9	71.6	72.4	73.9	75.4	75.9	77.4				121.6
VEHICLE PPG	100	68.9	68.6	70.4	72.1	66.9	69.4	73.1	71.6	72.1	73.4	75.4	74.9	75.1	75.1				122.3
CONFIG NC-080	125	67.4	69.2	70.7	73.2	67.9	68.9	73.7	71.9	71.7	72.7	74.2	72.2	74.4	73.7				121.9
LOC AT1 FAN	160	64.9	65.1	65.9	66.1	67.4	65.6	68.9	68.4	68.6	69.6	70.9	71.6	73.1	72.6				118.9
DATE 07-09-75	200	66.0	66.5	69.0	68.5	69.0	68.8	73.0	72.5	73.8	75.3	76.0	77.0	77.0	76.0				123.1
RUN 144	250	71.0	71.5	74.5	73.5	74.0	73.4	77.5	77.3	78.3	79.8	80.8	81.3	80.8	79.8				127.6
TAPE 3872	315	73.3	74.3	76.3	76.3	77.3	76.8	79.3	81.0	81.0	82.3	83.3	83.0	81.5	78.3				129.9
BAR 28.8 HG	400	71.4	72.7	73.7	75.2	76.9	74.7	78.2	78.2	78.4	79.2	80.9	80.4	78.2	74.9				127.6
(97152. N/M2)	500	69.8	72.8	72.8	72.8	73.1	71.3	76.8	75.6	77.1	78.3	80.3	81.1	78.1	78.8				126.7
TAMB 68. DEG F	630	70.7	73.0	74.0	76.5	76.7	75.5	80.0	79.2	80.5	83.0	84.5	83.7	81.0	80.7				130.2
(293. DEG K)	800	70.0	72.0	74.0	74.5	77.0	75.3	77.0	78.3	78.3	83.0	83.5	82.0	79.8	78.5				129.1
TWET 65. DEG F	1000	71.7	73.0	74.2	76.5	77.5	75.7	81.0	80.0	81.7	85.5	85.0	84.0	80.0	78.7				131.1
(291. DEG K)	1250	71.8	73.8	74.8	77.5	79.5	77.3	80.0	81.0	83.5	86.5	87.0	86.5	82.8	80.0				132.7
HACT 0. GM/M3	1600	70.4	72.6	73.4	75.4	78.4	76.9	80.4	81.4	82.4	85.9	86.1	84.6	81.1	78.4				131.9
(. KG/M3)	2000	72.7	74.5	75.2	77.7	80.5	77.5	82.7	83.7	84.2	87.7	87.7	86.7	84.5	82.2				134.0
NFA 6885. RPM	2500	70.2	73.4	75.2	77.2	79.4	78.7	83.4	84.4	85.7	89.2	89.7	86.4	83.4	81.4				135.0
(721. RAD/SEC)	3150	72.2	75.2	77.2	80.9	82.9	79.9	85.2	86.4	89.4	92.7	92.4	90.9	85.4	82.4				138.3
NFK 6826. RPM	4000	75.7	74.9	77.7	80.4	84.4	81.7	87.7	90.2	90.9	91.7	94.9	92.2	86.9	86.4				140.0
(715. RAD/SEC)	5000	81.4	82.4	85.2	87.7	88.9	89.9	90.4	94.7	98.2	102.2	99.2	101.2	95.2	89.7				147.3
NFD 10628. RPM	6300	74.7	77.7	77.2	81.5	84.0	85.0	87.7	90.0	92.7	94.5	97.0	94.0	88.0	85.5				142.2
(1113. RAD/SEC)	8000	73.9	75.4	77.6	80.1	82.6	82.9	86.6	88.9	90.4	91.9	94.6	95.4	88.1	84.4				141.4
NO. OF BLADES 44	10000	74.5	74.5	75.7	79.2	81.2	83.5	86.7	88.0	91.7	93.5	95.5	95.2	87.2	84.7				142.7
FAN TIP SPEED	12500	69.6	70.8	73.1	75.3	77.3	80.1	82.8	84.6	87.6	90.1	92.6	94.1	85.1	81.8				141.1
FT/SEC	16000	67.7	70.2	71.2	72.0	74.7	78.0	79.7	82.7	85.2	87.7	90.2	93.7	82.5	79.7				141.4
OVERALL MEASURED	20000	66.8	70.0	70.8	69.5	70.0	73.3	76.3	78.0	80.3	82.8	85.3	89.0	77.8	74.8				139.3
OVERALL CALCULATED		86.9	88.2	90.3	92.3	94.2	94.2	97.3	99.4	102.0	106.0	105.0	105.3	99.2	96.1				152.3
PNDB		101.2	102.5	104.6	106.9	108.6	108.5	110.9	113.5	116.2	119.4	118.4	118.9	113.7	110.0				



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)  
PROC. DATE - MONTH 33 DAY 0 HR. 0.9  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

SPL INPUT AT STD	FREQ.	0. 0. 0. PWL																
		(0.52)	(0.79)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0. )	(0. )	(0. )
50	71.3	70.3	72.6	70.8	71.8	68.8	74.3	71.3	73.1	74.8	75.8	76.8	77.6	80.3				123.7
63	69.8	69.5	70.3	68.5	74.5	68.3	82.8	73.3	72.3	72.8	75.0	78.0	76.5	78.5				126.1
RADIAL 100. FT. (30. M)	80	66.6	67.4	68.9	68.4	68.4	69.1	71.9	71.4	72.4	73.9	75.1	75.9	76.6				122.3
VEHICLE PPG	100	68.6	69.6	70.1	70.4	69.1	66.6	71.6	71.4	73.6	73.4	75.4	75.9	75.9				122.4
CONFIG NC-080	125	68.9	71.7	72.2	72.9	67.9	68.4	73.4	71.4	75.7	72.9	74.9	73.9	75.7				122.8
LOC ATT FAN	160	65.1	65.4	66.4	66.4	67.6	66.1	69.4	68.9	68.9	69.9	71.6	71.9	73.4				119.2
DATE 07-09-75	200	65.8	67.0	69.5	69.0	69.8	69.3	73.5	72.5	74.0	76.0	76.8	77.5	77.8				123.7
RUN 145	250	71.5	72.3	75.0	74.8	75.3	74.5	78.5	78.0	79.3	81.0	81.5	82.0	81.5				128.5
TAPE 3872	315	73.0	74.5	75.0	76.5	77.5	77.0	79.8	80.3	82.3	82.5	83.5	83.8	82.0				130.3
BAR 28.8 HG (97152. N/M2)	400	72.2	73.7	73.9	75.9	77.7	75.2	79.2	78.9	79.9	80.4	81.7	81.2	78.9				128.5
YAMB 68. DEG F	500	71.8	74.6	73.3	74.3	74.6	72.3	78.6	77.3	79.6	79.1	81.1	81.8	79.6				128.0
(293. DEG K)	630	72.5	75.0	75.2	78.0	77.7	77.0	81.0	80.2	81.7	83.5	84.5	84.5	81.5				130.9
THFT 65. DEG F	800	73.5	73.5	74.3	76.5	79.0	79.8	79.8	81.0	82.3	82.8	86.5	82.5	83.5				131.4
(291. DEG K)	1000	72.0	74.2	74.2	76.2	78.5	75.7	81.0	81.7	82.2	86.2	85.7	84.5	81.0				131.8
HACT 0. GH/M3	1250	72.5	74.8	75.0	77.5	79.3	79.0	81.5	82.0	83.8	86.5	89.0	87.3	83.8				134.1
(. KG/M3)	1800	71.1	72.6	73.4	76.1	78.1	77.4	80.9	81.6	82.9	87.1	87.4	86.1	81.9				132.8
NFA 6999. RPM (733. RAD/SEC)	2000	72.5	75.5	75.7	78.2	81.0	79.0	83.7	85.2	85.5	89.5	89.2	87.5	85.0				135.3
NFK 6939. RPM (727. RAD/SEC)	2500	70.4	74.4	76.4	77.9	80.9	79.2	84.2	84.7	86.2	89.2	89.9	86.4	84.2				135.4
NFD 10628. RPM (1113. RAD/SEC)	3150	72.2	75.4	76.7	80.9	83.4	79.9	85.7	86.2	89.2	92.4	92.7	90.7	85.4				138.3
NO. OF BLADES 44	4000	75.9	74.7	78.4	80.9	84.9	82.2	88.2	90.7	90.9	91.7	95.2	91.9	87.7				140.2
FAN TIP SPEED FT/SEC	5000	81.7	83.4	85.4	88.2	89.7	91.4	91.4	95.7	97.7	102.9	99.2	101.4	95.4				147.7
OVERALL MEASURED	6300	74.7	78.5	78.0	82.5	85.2	85.7	88.7	90.7	93.0	95.0	97.7	94.7	88.7				142.8
OVERALL CALCULATED	8000	73.9	75.6	78.4	80.6	83.1	83.1	86.9	89.9	90.9	92.4	95.6	95.9	88.6				142.0
PND8	10000	74.7	75.5	76.0	79.5	82.0	84.2	87.2	88.7	91.7	93.7	95.7	95.5	88.0				143.0
	12500	70.1	71.6	72.8	75.8	78.6	80.1	82.8	85.3	87.8	89.8	93.1	94.3	85.6				141.4
	16000	68.5	69.2	69.7	72.7	76.0	78.2	80.7	83.0	85.2	87.7	90.5	93.7	83.2				141.4
	20000	65.5	66.5	70.5	70.5	72.3	73.3	77.3	78.5	80.5	83.5	85.5	88.8	77.8				139.5
OVERALL MEASURED																		
OVERALL CALCULATED																		
PND8		87.3	89.0	90.6	92.9	95.0	95.2	98.0	100.2	102.0	105.6	105.5	105.6	99.7				152.7
		101.5	103.3	105.0	107.5	109.3	109.7	111.8	114.4	116.2	120.1	118.7	119.2	114.2				

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANs)																PWL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	0.	0.	0.	
50	70.6	70.1	72.1	70.6	71.3	68.3	74.1	71.3	72.8	74.1	75.6	76.8	77.3	79.3				123.3
63	68.8	69.0	79.5	67.8	73.8	67.0	83.0	72.8	71.0	72.5	74.5	77.8	76.3	78.0				126.0
RADIAL 100. FT. (33. M)	80	66.1	68.9	68.9	67.9	67.9	68.6	71.6	71.1	71.9	72.9	74.1	74.9	75.9				121.7
VEHICLE PPG	125	69.1	70.1	70.6	72.1	69.4	69.6	73.9	72.1	72.4	73.9	75.6	75.6	75.9				122.8
CONFIG NC-080	160	68.2	68.4	69.7	73.2	68.2	69.2	74.4	71.9	71.7	73.2	75.2	71.9	74.4				122.2
LOC ATT FAN	200	65.1	64.9	65.9	66.1	67.9	65.9	69.1	68.6	68.6	70.4	71.6	72.4	73.4				119.3
DATE 07-09-75	250	66.0	67.3	69.3	69.3	69.5	69.3	73.0	72.3	74.5	76.3	77.5	78.3	78.0				123.9
RUN 146	315	71.8	72.8	75.3	74.8	74.6	74.0	78.0	77.8	78.8	80.5	82.0	82.3	81.8				128.4
TAPE 3872	400	74.0	75.3	76.3	77.0	77.8	77.3	80.0	82.3	81.8	83.0	84.0	84.3	82.5				130.4
BAR 28.8 HG	500	71.7	72.9	73.2	74.7	77.7	74.9	78.9	78.4	79.2	80.2	80.4	80.7	78.7				128.0
(97152. N/M2)	630	70.1	73.8	73.8	74.3	73.8	72.3	76.8	76.3	77.6	79.1	81.3	83.1	79.6				127.8
TAMB 60. DEG F	800	71.2	74.0	74.5	77.7	78.2	76.0	80.7	80.5	81.0	83.2	84.7	84.5	80.7				130.8
(293. DEG K)	1000	70.8	72.5	75.3	75.5	77.0	75.5	77.8	80.0	79.5	84.0	84.3	83.8	81.3				130.2
THET 65. DEG F	1250	71.5	74.2	75.2	77.2	77.7	76.7	81.5	81.2	82.7	85.7	85.5	84.7	80.7				131.8
(291. DEG K)	1600	72.0	74.8	76.3	78.3	79.8	77.0	81.0	81.8	84.5	86.8	87.5	88.0	84.0				133.5
HACT 0. GM/M3	2000	70.4	72.6	73.6	76.1	78.4	76.4	80.9	82.4	83.1	86.6	86.9	86.1	81.6				132.7
(. KG/M3)	2500	73.5	75.0	75.0	78.5	81.7	78.2	83.2	85.2	85.2	88.0	89.2	87.5	84.2				134.9
NFA 6898. RPM	3150	71.2	73.4	75.7	77.7	80.2	79.4	83.2	84.7	86.4	89.4	90.2	86.4	84.2				135.4
(722. RAD/SEC)	4000	72.7	75.7	76.9	80.7	83.2	80.4	85.2	86.9	89.9	92.9	92.4	90.9	85.9				138.5
NFK 6839. RPM	5000	76.2	75.4	78.4	80.7	85.4	81.9	88.2	90.9	91.4	92.4	95.4	92.4	87.4				140.5
(716. RAD/SEC)	6300	82.4	83.2	86.2	87.9	90.9	90.9	90.4	95.2	98.4	102.9	99.2	101.9	95.9				147.8
NFD 10628. RPM	8000	75.7	78.2	78.0	82.0	85.0	85.2	88.5	90.7	93.2	95.0	97.5	94.2	88.5				142.7
(1113. RAD/SEC)	10000	74.4	75.1	78.4	80.4	83.4	82.6	85.9	89.6	90.6	92.4	95.1	95.9	88.1				141.8
NO. OF BLADES 44	12500	75.0	75.5	76.0	78.2	81.7	84.0	86.2	88.5	91.7	93.5	95.7	95.5	87.5				142.8
FAN TIP SPEED	16000	69.6	70.8	72.3	74.8	78.1	80.1	81.8	83.1	87.6	89.8	92.3	93.6	85.3				140.9
(FT/SEC)	20000	63.7	69.5	70.7	72.5	75.0	77.2	79.7	82.7	85.2	88.0	89.7	92.5	82.5				140.9
OVERALL MEASURED		67.8	69.3	70.5	68.0	71.0	72.5	76.8	78.3	80.0	83.0	85.3	88.3	77.5				139.1
OVERALL CALCULATED		87.5	88.8	90.9	92.6	95.4	94.8	97.4	100.1	102.4	105.6	105.3	105.7	99.7				152.6
PND8		101.9	103.1	105.4	107.2	109.9	109.2	111.1	114.1	116.5	120.1	118.6	119.6	114.4				

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SPL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	90.	180.	PWL
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	71.3	69.8	72.6	70.3	71.6	68.8	74.6	71.6	72.8	74.3	75.6	76.6	82.3	79.8				124.4
63	70.0	70.0	79.5	67.8	74.0	68.3	82.8	73.0	72.0	73.0	74.8	78.3	82.0	78.3				126.6
RADIAL 100. FT. (30. M)	50	67.1	67.4	68.9	68.1	68.6	68.9	71.6	70.9	71.9	73.4	74.4	75.4	81.4	77.9			123.0
100	68.4	70.4	70.1	70.1	68.9	68.6	72.4	71.4	72.9	72.9	74.6	75.4	80.4	74.9				122.9
VEHICLE PPG	125	68.7	71.4	71.9	72.9	67.2	68.7	73.7	71.7	74.9	72.4	74.2	72.9	80.7	74.2			123.3
CONFIG NC-080	160	65.1	65.4	66.1	66.1	67.6	65.9	69.6	68.6	68.9	69.9	71.9	72.9	80.6	73.4			121.1
LOC ATT FAN	250	65.5	67.0	69.5	69.3	69.5	69.3	73.5	73.0	74.5	76.0	76.3	77.3	82.8	77.3			124.6
DATE 07-09-75	250	71.3	72.0	75.0	75.3	75.0	74.0	78.3	78.0	79.3	80.5	81.3	81.8	84.0	80.3			128.4
RUN 147	315	72.8	74.3	75.5	76.5	77.3	76.8	79.8	80.3	81.8	82.3	83.5	83.5	84.3	78.8			130.3
TAPE 3872	400	71.9	73.4	74.7	75.2	77.4	74.9	78.7	78.7	78.9	79.9	80.9	80.7	83.7	75.7			128.5
BAR 28.8 HG	500	70.8	73.8	73.6	74.6	74.1	72.1	78.1	77.1	79.1	80.8	81.8	83.6	79.1				128.2
(97152. N/M2)	630	72.2	74.2	75.7	78.0	77.2	77.2	81.2	79.7	81.5	83.0	84.2	83.5	85.0	81.5			130.9
TAMB 66. DEG F	800	74.8	73.5	73.8	75.8	78.3	79.0	79.3	80.5	81.8	82.3	86.0	82.0	85.8	78.5			131.1
(293. DEG K)	1000	71.5	73.5	74.2	76.7	78.0	70.5	81.2	82.0	82.2	86.2	85.5	83.7	83.7	79.2			131.9
THET 65. DEG F	1250	72.3	74.8	74.8	77.5	79.5	79.0	81.5	82.3	84.5	88.3	88.3	86.3	85.0	80.8			133.9
(291. DEG K)	1600	70.9	72.9	73.4	75.6	77.9	77.0	80.4	81.6	82.4	86.6	86.9	85.1	84.1	78.6			132.5
HACT 0. GM/M3	2000	72.2	75.2	76.0	79.0	81.2	79.2	83.2	84.7	85.2	88.7	86.7	87.2	85.5	83.5			135.0
(. KG/M3)	2500	70.7	74.4	75.4	77.4	80.9	79.7	83.9	84.9	86.2	89.0	90.2	86.4	84.9	81.7			135.4
NFA 7010. RPM	3150	72.7	75.7	76.9	80.9	83.2	80.2	85.4	86.4	89.9	92.4	92.2	90.2	85.7	82.7			138.2
(734. RAD/SEC)	4000	76.2	74.4	77.9	80.4	84.7	81.7	88.2	90.7	91.2	91.7	95.2	92.4	86.9	85.9			140.2
NFK 6950. MPH	5000	81.9	83.4	85.4	87.7	89.7	91.4	91.2	95.4	98.2	102.7	99.2	100.9	95.2	89.7			147.5
(728. RAD/SEC)	6000	75.2	78.5	78.0	81.7	84.7	85.7	88.7	90.5	93.0	95.0	97.7	94.2	88.7	86.2			142.7
NFN 10628. MPH	8000	74.4	75.4	78.1	86.4	83.4	83.1	86.4	89.9	90.6	92.6	95.4	95.1	88.9	84.6			141.8
(1113. RAD/SEC)	10000	75.0	75.7	76.0	79.0	82.5	84.5	80.7	88.2	91.7	93.5	96.0	95.2	88.0	85.0			142.0
NO. OF BLADES 44	12500	70.6	71.1	73.3	75.3	78.6	80.6	83.3	85.6	87.8	90.6	92.6	93.6	86.8	81.6			141.3
FAN TIP SPEED	16000	68.7	70.2	71.0	72.5	75.5	78.0	80.2	82.7	85.7	88.2	90.7	93.2	84.5	79.5			141.6
FT/SEC	20000	67.0	69.3	70.5	68.8	71.5	73.5	76.3	79.0	80.3	83.0	85.5	88.5	82.5	74.5			139.5
OVERALL MEASURED																		
OVERALL CALCULATED	87.5	89.0	90.6	92.5	94.9	95.3	97.8	100.1	102.3	105.5	105.4	105.2	100.6	96.3				152.6
PWDB	101.7	103.3	104.9	107.1	109.2	109.7	111.5	114.2	116.4	119.9	118.6	118.8	114.8	110.2				

REPRODUCIBILITY OF THE ORIGINAL PAPER IS POOR

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIAN'S)																dBL	
	FRFQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	70.6	69.6	72.1	70.1	71.1	68.1	74.1	71.1	72.3	73.3	74.6	76.1	77.1	79.1				122.9
63	69.9	69.0	79.5	67.3	74.0	66.5	82.8	72.3	70.8	71.8	73.8	77.5	76.0	77.3				125.8
RADIAL 100. FT. ( 30. M)	80	65.6	66.1	67.9	67.1	67.6	68.1	70.9	70.1	71.4	71.9	73.6	74.4	75.4	76.4			120.9
VEHICLE PPC	100	69.6	70.9	71.1	72.9	71.4	68.4	72.4	71.6	70.4	72.9	76.4	75.1	75.4	74.1			122.5
CONFIG NC-080	125	66.2	66.9	68.9	70.4	68.4	66.2	69.7	69.9	68.4	70.9	73.7	71.9	74.2	72.7			120.1
LOC ATT FAN	160	64.6	64.6	65.1	65.6	66.9	65.4	68.6	67.1	67.6	68.4	70.6	71.9	75.4	72.1			118.8
DATE 07-09-75	200	65.3	66.8	68.8	68.5	69.5	68.8	72.5	72.0	73.3	75.5	75.5	76.5	77.3	75.5			122.9
RUN 148	250	70.5	71.0	74.0	73.0	73.5	72.6	76.3	76.5	78.0	79.0	80.5	80.8	81.0	78.5			127.1
TAPE 3872	315	72.8	74.3	75.5	76.3	76.8	76.8	80.0	80.3	80.5	81.5	82.0	82.8	83.0	78.8			129.6
BAR 28.8 HG	400	70.7	71.9	72.9	74.4	76.7	73.7	77.4	77.4	77.7	78.9	79.9	80.4	79.2	74.9			127.2
(97152. N/H2)	500	70.1	71.3	72.1	72.3	72.3	71.3	74.8	76.3	78.6	77.1	79.8	80.6	79.6	78.1			126.5
TAMB 68. DEG F	630	70.7	72.7	74.0	75.2	76.2	74.5	78.0	79.2	80.2	82.5	83.5	83.5	81.7	79.0			129.6
(293. DEG K)	800	69.5	71.8	75.3	72.8	76.8	75.0	76.3	77.0	79.0	81.5	83.5	81.8	80.8	77.3			128.8
TWET 65. DEG F	1000	71.0	72.2	73.5	75.0	76.5	75.0	79.2	79.7	81.5	84.0	84.5	84.5	81.2	78.0			130.5
(291. DEG K)	1250	71.5	72.8	73.5	76.8	77.0	75.8	79.3	80.0	82.3	85.5	86.0	85.8	83.3	79.3			131.9
HACT 0. GM/M3	1600	69.9	71.6	72.9	75.1	77.4	75.6	79.6	80.4	81.6	85.4	85.4	84.9	81.1	77.1			131.4
(. KG/M3)	2000	71.0	73.7	74.0	76.5	80.7	78.2	82.2	83.5	83.7	87.0	88.0	86.7	82.5	80.7			133.7
NFA 6742. RPM	2500	69.4	72.7	74.4	75.9	78.9	78.2	82.7	84.4	84.9	88.4	88.9	86.2	83.4	80.7			134.4
( 706. RAD/SEC)	3150	72.2	75.2	76.7	80.4	82.2	79.7	85.4	86.4	89.4	92.9	92.9	91.7	85.7	83.4			138.6
NFK 6684. RPM	4000	75.7	74.2	77.7	79.4	84.2	81.4	87.7	90.2	90.7	92.2	94.7	92.2	87.9	86.2			140.9
( 700. RAD/SEC)	5000	80.9	81.2	84.7	85.7	88.9	89.4	89.7	93.7	97.2	101.2	98.4	100.7	95.4	89.7			146.5
NFD 10628. RPM	6300	74.0	77.0	76.5	80.5	83.2	84.2	87.2	89.5	91.7	93.5	96.5	93.2	87.2	85.2			141.4
(1113. RAD/SEC)	8000	73.6	74.1	76.9	79.6	82.1	81.9	85.9	88.4	90.1	91.9	94.4	95.4	88.1	83.9			141.1
NO. OF BLADES 44	10000	74.2	74.7	75.0	77.5	81.0	82.7	85.7	87.2	91.0	93.2	95.0	95.0	87.7	84.2			142.2
FAN TIP SPEED 16000	12500	69.3	70.3	71.6	73.8	77.3	79.3	81.8	84.6	86.8	89.6	91.8	93.6	85.1	81.1			140.6
FT/SEC 20000	16000	68.7	69.5	70.5	71.5	74.2	77.3	79.5	81.7	84.2	87.2	88.7	93.5	82.0	78.5			140.9
OVERALL MEASURED	20000	67.5	69.3	70.8	69.5	70.0	72.8	75.8	77.5	79.8	82.0	84.3	88.8	77.8	73.5			135.8
OVERALL CALCULATED		86.5	87.5	89.9	91.1	93.9	93.6	96.7	96.9	101.3	104.3	104.5	105.0	99.4	95.7			151.8
PND8		100.7	101.6	104.1	105.5	108.3	108.0	110.2	112.8	115.4	118.7	117.8	118.6	114.0	109.7			

## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 70 DAY 0 HR. 0.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL		
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.	0.
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
	50	69.6	68.8	71.6	68.8	70.3	66.3	74.1	69.3	70.8	72.3	73.3	74.8	75.1	77.6				121.8
	63	68.3	67.8	79.3	66.8	73.3	65.0	82.8	72.3	69.5	70.3	72.5	77.0	74.3	75.3				125.4
RADIAL 100. FT.	80	64.1	64.9	66.6	65.6	66.4	66.9	69.4	68.4	69.6	70.9	71.6	72.4	73.4	74.9				119.3
( 30. M)	100	68.1	69.9	69.9	71.9	73.1	68.6	70.4	70.1	70.9	71.1	74.4	75.6	73.6	74.6				121.7
VEHICLE PPG	125	63.2	63.2	65.7	65.9	65.4	63.2	66.4	66.7	67.2	68.4	69.4	69.7	69.9	70.4				117.0
CONFIG NC-080	160	63.4	63.7	64.6	64.4	66.1	63.9	67.6	66.4	66.4	67.4	68.6	69.4	70.1	69.9				116.8
LOC ATT FAN	200	65.0	65.5	68.0	66.5	67.5	66.8	71.3	71.0	71.5	73.0	74.3	74.8	74.8	73.8				121.1
DATE 07-09-75	250	69.5	69.3	72.3	72.0	71.5	71.5	75.0	74.8	76.5	77.8	79.0	79.5	78.8	77.5				125.6
RUN 149	315	70.8	71.8	74.0	75.3	74.3	73.5	77.5	78.0	79.8	80.0	81.0	82.0	80.3	77.3				128.0
TAPE 9948	400	69.7	70.9	71.7	73.4	75.2	72.9	75.9	76.2	76.4	77.4	78.7	78.4	76.2	73.7				125.7
BAR 28.8 HG	500	70.6	72.3	71.1	71.8	70.6	69.8	73.8	75.1	75.8	77.3	78.8	80.6	77.3	79.1				125.6
(97152. N/M2)	630	68.7	71.7	72.2	73.7	74.0	73.5	76.5	77.5	78.5	84.5	82.7	82.7	79.5	77.7				128.2
TAMB 68. DEG F	800	68.5	70.3	72.8	71.8	74.5	71.8	74.8	76.5	76.8	79.5	80.8	80.3	77.3	75.0				126.7
(293. DEG K)	1000	69.0	71.2	72.0	73.5	74.7	73.5	77.7	77.7	79.7	82.5	82.7	82.7	78.5	77.2				128.9
THRT 65. DEG F	1250	69.8	73.0	72.0	74.8	75.5	74.5	78.0	79.0	82.0	85.0	86.0	87.0	81.0	79.8				131.5
(291. DEG K)	1600	69.4	70.9	71.1	73.9	76.1	74.6	78.9	79.8	81.6	85.4	85.1	83.6	79.4	76.6				140.8
HACT 0. GM/M3	2000	69.7	71.7	73.7	75.0	78.7	75.7	80.2	82.2	82.7	86.5	87.2	85.2	81.2	79.2				132.6
(. KG/M3)	2500	68.9	72.2	73.9	75.2	77.7	77.2	81.4	82.4	84.9	87.7	88.4	85.7	82.4	79.9				133.7
NFA 6443. RPM	3150	71.7	74.9	76.7	79.7	81.7	79.2	84.2	86.2	89.9	92.7	93.7	93.4	87.4	83.4				139.0
( 675. RAD/SEC)	4000	75.7	74.4	77.7	79.7	83.7	81.4	87.4	90.4	91.4	92.7	95.4	93.4	88.4	86.9				140.6
NFK 6388. RPM	5000	79.7	79.9	82.9	84.2	86.7	87.7	89.2	92.4	95.4	99.9	98.2	99.4	94.4	89.4				145.4
( 669. RAD/SEC)	6300	72.5	75.5	75.0	79.2	81.5	82.2	85.7	87.7	90.0	92.2	94.7	92.7	86.2	83.7				140.0
NFD 10628. RPM	8000	72.4	73.4	75.6	78.4	80.6	80.6	84.4	87.6	88.9	90.9	93.9	94.4	87.4	82.9				140.2
(1113. RAD/SEC)	10000	73.0	73.0	73.7	76.5	78.5	81.5	84.5	86.2	88.7	91.2	93.7	94.0	86.7	82.7				140.8
NO. OF BLADES 44	12500	67.8	69.6	70.8	72.8	75.1	77.6	80.3	82.8	85.3	88.1	90.6	92.8	83.8	79.8				139.4
FAN TIP SPEED	16000	67.5	69.0	69.5	70.7	72.0	75.0	77.2	80.2	82.7	85.7	88.5	91.7	80.5	77.7				139.4
FT/SEC	20000	65.5	69.3	69.0	68.3	67.8	71.0	74.0	75.8	78.3	81.0	83.3	87.8	75.8	73.3				137.7
OVERALL MEASURED																			
OVERALL CALCULATED		85.4	86.5	88.7	90.0	92.2	92.1	95.7	97.9	100.1	103.3	104.0	104.3	98.5	95.1				150.8
PND8		99.6	100.5	102.7	104.2	106.5	106.4	109.3	111.7	114.1	117.6	117.4	117.7	112.9	109.2				

SPL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	( )
50	69.3	68.8	71.3	68.1	70.3	65.8	73.6	69.3	70.3	72.3	73.6	74.6	74.6	77.1				121.5
63	67.5	67.8	79.5	65.5	73.5	64.0	82.8	71.8	68.3	70.0	72.5	76.8	73.6	74.5				125.3
RADIAL 100. FT. ( 30. M)	80	63.6	64.6	66.4	64.9	65.6	66.4	69.4	67.9	69.1	70.4	71.4	72.1	72.9	74.1			118.9
VEHICLE PPG	125	62.4	62.7	65.2	65.2	64.7	62.7	66.4	65.9	67.2	68.4	68.7	69.4	69.7	70.4			116.6
CONFIG NC-080	160	63.2	63.4	63.9	63.9	65.9	63.2	67.4	65.9	65.9	66.4	67.9	68.4	70.1	69.6			116.3
LOC ATT FAN	200	64.0	65.0	67.3	66.0	68.3	66.0	70.5	70.0	71.0	73.0	74.0	74.3	74.3	73.8			120.7
DATE 07-04-75	250	69.3	69.3	72.3	72.0	71.5	71.3	74.8	74.5	75.8	77.3	78.3	79.3	76.8	77.0			125.2
RUN 150	315	70.8	71.5	74.5	75.8	75.3	73.5	77.5	78.3	79.3	80.3	81.5	82.0	80.3	77.5			125.2
TAPE 9948	400	69.9	70.4	71.4	72.9	75.2	72.9	75.9	76.2	76.7	77.7	79.2	78.7	76.9	73.7			125.8
BAR 28.8 HG (97118. N/M2)	500	70.1	74.3	71.6	70.3	71.3	70.1	73.3	73.3	74.3	76.3	76.6	79.3	76.3	76.8			124.8
TAMB 69. DEG F (294. DEG K)	630	68.5	71.2	71.5	73.5	74.0	73.7	77.0	77.7	79.0	81.0	82.2	82.5	79.7	77.2			128.2
THET 69. DEG F (292. DEG K)	800	67.5	70.3	71.8	71.8	72.5	72.6	74.8	75.5	76.5	79.3	79.3	79.8	79.0	75.3			123.2
HACT 0. GM/M3 (. KG/M3)	1000	68.2	70.5	72.0	73.0	74.5	73.0	76.7	78.2	80.0	82.5	82.2	82.7	79.0	76.5			128.7
NFA 6279. RPM ( 657. RAD/SEC)	1250	69.5	71.8	72.3	75.3	76.5	75.3	77.8	78.5	81.5	84.8	84.3	85.5	81.8	78.3			130.8
NFK 6219. RPM ( 651. RAD/SEC)	1600	68.4	70.6	70.6	73.1	75.4	74.1	78.1	80.1	80.6	84.6	84.1	84.1	79.9	76.4			130.4
NFD 10628. RPM (1113. RAD/SEC)	2000	69.2	71.2	72.0	74.5	77.2	74.7	79.2	81.5	81.2	84.7	85.0	84.7	80.7	78.7			131.2
NO. OF BLADES 44	2500	68.4	71.7	72.9	74.9	77.4	76.2	81.2	81.9	84.2	87.7	87.9	85.9	82.2	79.7			133.4
FAN TIP SPEED FT/SEC	3150	71.9	74.2	75.9	79.7	81.4	78.4	83.7	85.7	89.4	92.7	92.9	92.2	86.7	83.4			138.5
OVERALL MEASURED	4000	75.9	74.4	78.2	80.2	84.2	81.4	87.9	91.2	91.7	92.9	96.2	94.2	89.2	87.4			141.1
OVERALL CALCULATED	5000	78.2	78.7	81.4	82.7	86.2	85.7	87.2	91.2	93.9	98.4	97.4	98.4	92.9	88.4			144.1
PND8	6300	71.8	74.5	74.5	78.3	81.0	81.8	85.3	87.0	89.5	91.5	94.3	92.3	86.0	83.5			139.5
	8000	71.4	72.6	75.6	77.6	80.1	79.9	83.4	86.6	88.4	90.4	93.4	94.1	86.6	82.4			139.7
	10000	71.5	72.2	73.2	75.5	77.7	80.2	83.2	85.2	88.2	90.5	93.0	92.7	85.7	82.2			139.9
	12500	67.4	68.9	73.4	71.9	74.9	77.1	79.4	82.6	84.6	87.9	89.9	92.1	83.6	79.4			138.8
	16000	65.5	67.5	69.7	69.2	72.2	73.7	76.5	79.7	81.5	84.7	87.2	91.8	80.2	77.0			135.5
	20000	65.3	68.3	70.8	68.3	69.1	72.1	73.8	75.8	76.6	80.1	82.6	86.6	75.6	72.6			136.8
OVERALL MEASURED		84.8	86.0	88.3	89.4	92.0	91.2	95.0	97.4	99.4	102.5	103.5	103.6	97.8	94.7			150.2
OVERALL CALCULATED		98.6	99.7	101.8	103.3	106.1	105.2	108.9	111.3	113.1	116.6	116.8	117.0	112.1	108.6			

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 01 DAY 0 HR. 0.9  
 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	FREQ.	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)																		PHL
		ANGLES FROM INLET IN DEGREES (AND RADIANS)																		
		30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.		
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)		
	50	69.1	67.6	70.8	67.3	68.6	65.6	73.8	69.1	70.1	71.1	72.3	73.6	73.8	76.6				120.8	
	63	68.8	68.3	79.3	67.0	70.3	66.8	82.8	71.8	68.8	69.5	72.8	77.0	74.5	76.0				123.3	
RADIAL 100. FT.	80	64.1	63.8	65.1	64.9	64.9	65.4	67.9	66.9	68.4	68.9	70.4	71.4	72.4	74.6				118.1	
( 30. M)	100	63.9	65.9	67.4	66.6	68.4	65.9	69.6	67.4	70.9	71.4	69.6	73.6	72.4	74.4				119.5	
VEHICLE PPG	125	62.2	62.7	64.7	63.7	63.4	61.7	65.2	64.4	65.4	67.2	67.9	67.9	68.7	69.9				115.5	
CONFIG NC-080	160	62.4	62.4	63.4	62.9	63.4	62.4	66.4	64.9	64.9	65.9	67.6	68.6	69.9	70.4				115.7	
LOC ATT FAN	200	64.8	65.5	65.8	64.0	64.3	64.3	68.8	67.8	70.0	71.3	71.8	73.8	74.0	73.8				119.4	
DATE 07-09-75	250	66.3	67.0	69.0	68.8	68.5	68.0	71.8	71.8	73.0	74.5	76.0	77.0	77.5	76.5				122.9	
RUN 157	315	67.8	69.3	70.8	71.3	71.3	70.3	74.0	74.0	74.5	76.0	76.8	77.8	77.0	74.8				124.1	
TAPE 3955	400	66.9	67.4	68.9	70.4	71.7	69.4	72.7	72.9	73.2	74.2	75.2	75.7	74.2	71.7				122.6	
BAR 28.7 HG	500	67.1	67.1	67.8	67.8	66.6	66.6	70.1	70.8	72.3	73.8	74.8	76.6	73.6	72.6				121.7	
(97051. N/M2)	630	67.5	69.5	70.0	71.5	72.0	70.7	74.0	74.7	75.2	77.2	76.7	79.2	77.5	76.0				125.1	
TAMB 67. DEG F	800	66.5	67.8	68.8	68.8	70.8	69.5	72.8	72.5	73.3	76.3	76.5	76.5	74.8	72.0				123.2	
(293. DEG K)	1000	65.7	67.5	69.2	70.5	72.5	71.0	74.7	75.5	77.0	79.7	79.7	76.2	75.2	73.7				125.3	
THET 65. DEG F	1250	68.6	70.5	71.0	73.5	74.5	73.5	77.0	78.0	79.5	82.5	82.3	82.0	79.0	76.8				128.8	
(291. DEG K)	1600	69.4	70.4	71.6	74.4	76.1	74.9	78.4	79.6	80.6	83.4	83.0	82.6	78.9	77.1				129.8	
WACT 0. GM/M3	2000	69.7	71.0	72.2	74.7	77.7	75.2	80.0	81.7	81.7	84.2	85.2	83.0	80.2	78.7				131.1	
(. KG/M3)	2500	69.4	72.7	74.4	76.9	78.9	77.9	82.7	83.7	85.4	87.9	86.9	85.2	83.4	80.7				134.2	
NFA 5735. RPM	3150	70.2	73.4	74.7	79.2	80.9	78.2	83.2	84.7	86.9	89.4	90.4	87.9	83.4	80.9				135.8	
( 600. RAD/SEC)	4000	72.4	73.9	77.2	80.2	84.2	81.4	88.4	91.4	90.7	90.9	95.7	91.2	86.9	86.4				140.2	
NFK 5691. RPM	5000	73.2	74.2	76.4	78.7	81.2	82.2	83.2	87.2	87.7	92.4	90.2	91.2	86.2	82.2				137.9	
( 596. RAD/SEC)	6300	71.5	74.5	74.0	78.2	80.5	81.2	85.6	87.2	89.0	90.5	93.7	89.5	84.2	82.5				138.6	
NFD 10620. RPM	8000	71.1	71.6	73.9	76.4	77.9	78.4	82.6	86.1	86.9	88.1	90.9	90.4	84.1	80.9				137.4	
(1113. RAD/SEC)	10000	69.7	70.7	70.9	73.7	75.9	76.7	81.7	83.9	85.7	87.4	89.7	89.2	82.2	79.2				137.0	
NO. OF BLADES 44	12500	66.3	68.3	69.0	71.0	74.3	76.3	78.3	81.3	83.3	85.5	87.5	86.5	80.8	77.3				136.3	
FAN TIP SPEED 16000	16000	66.4	67.9	67.1	69.6	71.9	73.4	76.6	79.1	80.6	83.4	84.9	87.9	77.4	74.9				136.4	
FT/SEC 20000	20000	64.9	68.9	68.7	67.7	68.4	69.9	72.9	74.9	75.7	77.9	79.9	82.9	71.9	69.7				134.3	
OVERALL MEASURED																				
OVERALL CALCULATED		83.2	84.3	86.6	88.1	90.4	89.8	94.3	96.4	97.2	99.3	101.2	99.5	94.6	92.7				147.6	
PNDB		97.1	97.3	99.6	102.0	104.8	103.1	108.6	110.8	111.0	112.6	115.2	112.4	108.5	107.2					

REPRODUCIBILITY OF THE ORIGINAL FACT IS POOR

MODEL SOUND PRESSURE LEVELS (59, DEG. F. 70 PERCENT REL. HUM, DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
	FREQ. (0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	72.8	71.8	73.8	72.8	73.8	71.8	76.6	75.3	76.3	77.8	79.1	80.6	82.8	86.3				127.4
63	70.8	72.0	79.8	72.0	73.5	71.3	83.5	76.5	76.3	77.8	79.0	82.0	83.3	86.0				129.0
RADIAL 100. FT. (30. 4)	80	69.4	70.6	71.6	71.1	71.9	72.4	73.1	75.1	76.4	77.6	78.9	80.9	82.6				127.0
VEHICLE PPG	100	70.9	70.9	71.9	72.1	72.1	71.6	75.1	74.9	75.4	76.9	77.9	80.4	81.1				126.0
CONFIG NC-080	125	69.9	69.7	70.9	72.2	72.9	70.4	75.9	74.2	74.9	76.4	76.9	78.4	79.2				125.0
LOC 477 FAN	160	68.4	68.1	69.1	69.9	70.1	70.1	73.1	73.1	73.6	75.1	77.4	78.4	80.1				124.5
DATE 07-09-75	200	69.3	70.0	71.5	70.5	71.3	71.5	75.8	76.0	77.5	79.3	80.8	83.0	84.8				128.1
RUN 158	250	73.8	74.0	76.8	76.0	75.8	76.0	79.8	80.3	81.8	83.3	85.0	86.5	87.5				131.8
TAPE 3955	315	75.8	76.5	78.5	78.8	79.8	78.3	81.5	82.8	82.8	84.5	85.8	87.0	86.8				132.7
BAR 28.7 HG	400	75.9	75.9	77.7	79.4	80.9	78.2	80.9	81.7	82.7	83.2	85.7	85.4	83.9				131.9
(97091, N/M2)	500	72.3	73.8	74.6	75.3	75.8	73.8	77.1	77.6	78.6	79.3	82.1	83.1	82.6				128.6
TAMB 67, DEG F	600	74.7	76.5	78.6	79.7	80.7	78.5	82.7	83.2	82.7	85.0	85.2	85.2	84.5				132.5
(293, DEG K)	800	75.0	77.5	77.0	78.5	78.5	78.0	80.8	81.8	81.0	84.5	84.0	83.5	84.5				131.4
TMET 65, DEG F	1000	75.2	75.7	78.0	78.5	79.7	79.0	83.0	83.7	84.7	87.2	86.5	84.5	83.5				133.3
(291, DEG K)	1250	75.3	77.0	78.5	80.5	80.8	79.8	83.3	83.5	85.3	88.5	88.5	86.3	83.5				134.4
MACT 0, GM/H3	1600	75.6	77.4	77.9	80.6	82.9	80.4	83.9	83.9	84.9	89.1	88.4	85.4	83.1				134.7
(, KG/H3)	2000	76.2	78.2	79.0	84.0	86.0	83.5	87.5	90.0	90.5	91.5	91.7	87.7	85.0				138.4
NFA 4005, RPM 7473	2500	73.9	77.4	79.4	81.9	84.2	83.2	86.9	87.4	88.7	91.4	92.4	86.9	86.2				137.8
(1048, RAD/SEC)	3000	75.2	78.7	80.4	85.2	86.9	83.7	88.2	89.2	91.7	93.2	93.4	88.7	85.7				139.6
NFK 44, RPM 7416	4000	78.4	77.7	81.2	85.2	88.4	84.7	90.9	93.2	92.7	92.2	95.9	91.2	87.7				141.6
(1048, RAD/SEC)	5000	81.9	84.7	86.4	90.2	91.2	92.9	93.2	96.2	96.9	100.7	97.9	97.2	93.4				146.3
NFD 10628, RPR 8000	6300	78.0	81.5	82.2	87.7	88.7	89.5	92.5	93.7	95.5	96.5	98.7	94.0	89.5				144.6
(1113, RAD/SEC)	8000	77.6	78.9	81.6	86.4	87.1	87.6	90.6	93.4	94.1	94.9	96.9	95.4	89.4				144.0
NC. OF BLADES 44	10000	76.9	77.9	79.2	83.2	85.9	87.7	90.2	91.7	93.7	95.2	96.4	94.7	88.4				144.3
FAN TIP SPEED 16000	12500	72.5	74.8	76.3	80.0	83.8	85.0	86.8	89.5	90.5	92.5	94.0	93.5	86.5				143.1
FT/SEC 20000	16000	71.1	72.4	74.1	77.1	81.6	82.4	84.9	87.4	89.1	91.1	91.9	93.4	83.4				143.5
OVERALL MEASURED	20000	86.9	70.4	72.2	72.2	75.7	76.9	79.9	82.7	84.4	86.4	87.7	89.2	78.9				141.6
OVERALL CALCULATED		89.5	91.3	93.1	96.3	98.0	97.9	100.7	102.6	103.6	105.8	106.1	104.2	100.4				98.9
PNDB		103.2	103.3	107.0	110.4	111.6	111.9	114.0	116.0	116.9	119.5	118.8	117.2	114.2				111.7



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SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)																	PWL	
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.		0.
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
	50	77.3	76.6	77.3	77.8	79.1	77.8	80.8	81.1	82.1	83.6	84.8	87.3	90.6	94.8				134.2
	63	75.0	77.5	81.0	78.3	79.0	77.5	85.0	81.8	82.3	83.8	85.3	88.5	91.3	95.0				135.0
RADIAL 100. FT.	80	74.6	79.6	76.9	77.6	78.1	78.1	81.1	81.1	82.6	84.1	86.1	88.1	90.6	94.1				134.4
( 30. M)	100	77.4	75.6	78.6	78.1	78.9	78.6	81.6	80.9	82.1	83.4	84.9	87.6	89.4	90.1				133.2
VEHICLE PPG	125	75.7	76.2	76.9	77.9	78.2	78.9	79.7	79.4	80.2	81.9	83.9	85.2	86.9	87.4				131.3
CONFIG NC-080	160	75.4	76.4	76.9	78.4	79.6	76.9	81.1	80.9	80.6	83.1	84.9	86.6	88.6	89.6				132.7
LOC ATT FAN	200	75.5	76.5	77.8	77.5	78.3	78.8	82.5	83.0	84.5	87.5	88.8	91.5	93.8	92.3				136.3
DATE 07-09-75	250	80.5	81.0	83.3	82.8	83.0	82.5	86.5	86.8	88.3	90.5	92.8	94.5	95.8	94.3				139.4
RUN 159	315	83.0	83.5	85.8	86.0	86.0	84.8	89.0	89.8	89.8	91.8	93.8	95.0	95.5	93.3				140.4
TAPE 3955	400	81.7	83.4	83.7	84.9	85.7	83.9	87.2	87.2	87.9	88.9	90.7	91.7	90.9	89.7				137.8
BAR 28.7 HG	500	79.8	81.3	81.8	82.3	82.3	80.8	84.3	85.3	86.3	87.3	89.3	91.1	90.8	89.1				136.3
(97051. N/M2)	630	82.2	83.7	83.7	85.5	85.7	84.7	88.5	88.5	90.0	91.2	92.2	93.0	92.0	89.7				139.1
TAMB 67. DEG F	800	82.8	85.3	83.8	84.0	85.0	84.8	87.8	87.8	88.8	90.0	91.3	90.3	91.8	88.5				138.2
(293. DEG K)	1000	81.7	84.5	85.0	85.2	86.2	85.0	89.0	88.7	89.5	92.2	95.5	91.7	91.0	88.2				139.9
THET 65. DEG F	1250	82.5	84.0	84.8	86.8	87.5	85.8	89.5	91.3	93.0	96.3	94.5	92.5	89.8	88.5				141.4
(291. DEG K)	1600	81.6	82.9	83.6	85.6	87.6	85.6	89.1	88.6	90.1	93.1	92.6	93.6	88.4	86.4				139.4
HACT 0. GM/M3	2000	81.2	83.0	83.7	87.2	88.2	85.2	89.5	90.2	89.7	92.5	93.5	89.7	88.7	86.7				139.8
(. KG/M3)	2500	78.2	81.7	84.7	86.9	87.9	87.2	90.4	90.7	91.9	94.7	94.9	89.4	88.9	86.9				141.0
NFA 9059. RPM	3150	79.4	82.9	84.9	88.7	90.2	87.7	91.9	91.7	93.9	95.9	94.9	90.7	88.4	86.7				142.2
( 948. RAD/SEC)	4000	82.2	81.7	85.4	88.7	91.4	87.4	93.7	95.2	94.9	94.7	97.4	92.4	89.4	90.7				143.8
NFX 8990. RPM	5000	83.4	86.4	88.9	92.2	92.2	93.7	93.9	96.2	96.9	100.4	97.2	95.9	92.9	89.4				146.3
( 941. RAD/SEC)	6300	85.0	88.7	89.0	94.7	95.5	95.5	100.0	101.2	103.0	102.2	104.0	99.0	94.5	94.5				150.9
NFD 10628. RPM	8000	83.4	85.6	88.4	92.4	92.9	93.6	96.4	98.9	98.4	98.9	108.6	98.9	94.1	91.4				148.5
(1113. RAD/SEC)	10000	81.4	83.9	84.9	89.9	91.2	93.4	95.4	96.4	97.7	98.7	99.4	96.9	92.2	89.7				148.1
NO. OF BLADES 44	12500	78.3	80.8	82.5	86.0	89.5	90.5	93.0	95.0	95.8	96.8	98.0	96.8	89.8	87.8				147.6
FAN TIP SPEED	16000	75.6	77.9	79.1	82.9	86.9	87.9	90.1	92.1	93.4	94.6	95.4	95.9	87.4	85.6				147.3
FT/SEC	20000	71.7	74.2	75.4	78.9	81.7	83.7	86.4	88.4	89.9	91.7	92.2	93.2	82.9	81.7				146.6
OVERALL MEASURED		94.9	97.0	98.3	101.4	102.5	102.4	105.6	106.9	107.9	109.0	109.8	107.8	105.7	105.1				157.9
OVERALL CALCULATED		107.4	110.0	111.4	114.8	115.7	115.2	119.1	120.1	121.4	122.0	123.2	120.0	117.4	116.6				

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)															PWL		
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.	0.
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	79.1	79.3	78.8	80.3	81.6	80.1	83.6	83.8	84.6	86.6	88.1	90.8	95.3	100.1				138.4
63	80.5	81.0	82.8	82.8	83.0	82.5	87.8	85.3	86.0	87.0	88.8	91.3	95.8	100.3				139.2
RADIAL 100. FT. (30. M)	80	77.9	79.4	80.4	80.4	81.4	81.1	84.6	84.4	85.9	87.9	89.4	92.1	95.6	98.9			138.6
VEHICLE PPG	125	78.7	79.4	80.2	80.4	80.9	79.7	82.9	83.2	83.7	85.4	86.6	88.9	91.9	94.1	95.1		137.2
CONFIG NC-080	160	78.4	81.9	80.1	80.6	80.9	80.9	86.6	85.4	87.1	86.1	89.1	90.1	93.4	94.1			137.0
LOC ATT FAN	200	79.0	80.3	81.5	81.0	81.5	82.0	85.5	86.8	88.0	90.5	93.0	95.8	98.8	96.5			140.5
DATE 07-09-75	250	83.0	84.3	86.3	86.5	86.8	86.0	89.8	90.3	92.0	94.5	96.8	98.8	99.8	98.3			143.3
RUN 160	315	86.0	87.0	88.5	89.0	90.5	88.5	92.0	93.3	93.0	95.8	98.0	99.3	99.8	98.3			144.4
TAPE 3955	400	86.2	87.2	87.7	88.9	89.9	87.9	90.9	90.9	91.2	92.7	94.2	95.4	94.9	93.9			141.5
BAR 28.7 HG	500	83.8	85.3	86.1	86.3	86.1	84.6	88.6	89.1	90.1	92.1	94.1	95.8	95.6	94.1			140.8
(97051. N/42)	630	86.8	87.0	88.0	89.0	89.2	88.2	92.2	92.7	93.2	95.0	96.0	96.7	96.5	94.0			143.0
YAMB 68. DEG F	800	88.8	90.0	93.3	95.0	95.5	92.3	94.5	91.5	93.8	96.0	96.8	95.3	95.0	92.3			144.6
(293. DEG K)	1000	86.7	87.7	87.7	90.0	89.7	89.5	92.7	92.5	93.0	95.5	96.7	95.0	94.5	91.7			142.9
THET 65. DEG F	1250	88.0	89.5	88.5	91.8	90.5	89.8	92.5	92.8	95.0	96.5	97.3	96.0	95.0	91.5			143.9
(291. DEG K)	1600	87.9	90.6	88.9	91.1	92.1	91.1	93.6	95.4	98.4	95.0	97.1	95.4	96.4	91.4			144.9
HACT 0. GM/H3	2000	85.7	87.2	88.0	90.7	94.0	91.2	96.2	97.0	94.5	95.7	96.5	93.5	93.0	91.7			144.6
(. KG/H3)	2500	82.9	86.9	88.4	91.4	92.7	91.7	96.4	93.9	95.7	97.7	97.9	92.9	93.2	91.4			144.8
NFA 9955. RPM	3150	83.4	87.7	88.7	95.2	94.2	90.7	95.7	95.2	96.9	98.0	98.2	94.4	92.2	90.2			145.8
(1042. RAD/SEC)	4000	85.7	86.2	88.4	91.9	95.7	98.4	96.7	97.9	97.4	96.7	99.9	94.7	92.9	93.2			146.5
NFK 9874. RPM	5000	86.4	89.7	91.4	94.2	95.9	95.7	96.4	98.7	98.9	101.7	98.4	98.4	95.7	92.2			148.3
(1034. RAD/SEC)	6300	87.0	91.2	91.5	95.2	99.2	97.5	101.5	101.7	103.7	102.5	103.2	99.5	95.5	95.2			151.6
NFD 10626. RPM	8000	87.9	89.6	92.4	96.1	99.9	97.9	101.4	103.4	103.9	102.9	104.4	103.1	98.4	95.9			153.1
(1113. RAD/SEC)	10000	85.2	87.4	87.9	91.7	94.4	96.4	98.4	99.2	100.2	100.4	101.7	99.4	94.2	92.4			150.6
NO. OF BLADES 44	12500	81.1	84.1	85.1	88.1	91.8	93.1	95.1	97.1	97.3	98.6	99.1	98.8	92.1	90.1			149.4
FAN TIP SPEED	16000	79.2	81.2	81.9	85.9	89.4	91.2	92.9	94.7	95.7	96.7	97.4	98.2	89.2	87.4			149.6
FT/SEC	20000	75.0	77.0	78.0	81.5	84.5	86.5	89.2	91.5	92.2	93.0	93.5	94.7	85.2	83.7			148.5
OVERALL MEASURED																		
OVERALL CALCULATED		99.0	101.0	102.4	104.9	107.0	105.7	109.0	109.8	110.8	111.2	112.0	111.0	109.8	109.3			160.7
PNDB		111.0	113.6	114.8	116.1	119.9	118.2	122.0	122.4	123.7	123.8	124.6	122.6	120.9	119.4			

		MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)															PROC. DATE - MONTH 74 DAY 0 HR: 0:9		
		ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
SPL INPUT AT STD	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
		(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
	50	81.6	81.3	81.3	82.8	84.1	83.1	86.8	87.3	88.0	89.8	91.3	95.1	99.3	104.1				142.3
	63	82.0	83.0	84.0	84.5	86.0	84.3	89.3	88.8	89.0	90.8	91.5	96.5	100.3	104.8				143.3
RADIAL 100. FT. (30. M)	80	80.9	82.1	83.1	84.1	84.9	84.9	88.4	88.6	89.0	90.9	93.1	96.9	100.4	103.9				143.1
VEHICLE PPG	125	81.9	82.4	82.7	84.2	84.7	83.9	86.9	87.2	88.4	89.9	91.4	93.4	95.4	99.4				141.1
CONFIG NC-080	160	82.1	81.4	85.4	86.1	85.4	84.9	87.4	86.9	89.9	92.4	93.1	95.1	98.4	99.4				141.3
LOC ATT FAN	200	83.0	83.3	87.0	86.8	86.5	86.8	90.5	90.8	92.0	93.5	97.0	100.3	103.0	100.8				144.9
DATE 07-10-75	250	87.0	87.5	89.5	89.5	89.8	89.5	93.5	93.5	95.8	98.0	99.8	103.3	103.8	101.5				147.1
RUN 161	315	90.0	90.5	92.0	92.8	93.3	92.5	95.5	96.0	97.3	99.0	100.5	103.0	102.8	101.0				147.7
TAPE A723	400	89.9	91.2	90.9	92.7	94.2	91.9	95.2	94.9	95.2	96.4	97.7	98.4	98.4	97.9				145.4
BAR 28.7 HG	500	88.3	88.8	90.3	91.8	90.6	90.3	92.8	93.6	94.8	95.8	97.6	100.1	99.1	97.6				144.9
(97051; N/M2)	630	89.7	91.0	91.0	92.5	93.2	92.0	95.2	95.5	96.7	98.2	99.5	100.7	99.7	97.2				146.4
TAMB 68; DEG F	800	90.0	91.8	91.0	92.5	94.3	91.5	95.5	94.5	95.8	98.5	98.5	98.3	98.0	95.8				145.7
(293; DEG K)	1000	89.7	90.5	90.7	93.0	93.7	91.2	95.2	95.0	96.2	99.0	99.2	98.2	97.5	95.0				145.9
TWET 65; DEG F	1250	89.5	90.5	90.3	93.0	93.8	91.3	94.8	95.8	97.5	99.0	99.3	98.5	96.8	94.6				146.1
(291; DEG K)	1600	88.4	89.9	90.4	93.4	93.9	92.1	95.6	95.9	97.9	101.1	100.1	97.6	96.1	93.4				146.8
HACT 0. GH/MS	2000	88.5	90.0	90.5	95.0	96.2	92.5	97.2	98.0	97.0	99.5	98.5	96.5	95.2	94.7				146.8
(. KG/MS)	2500	85.9	89.4	90.9	93.2	95.7	94.9	96.9	97.2	97.9	100.2	99.4	95.4	96.2	93.4				147.0
NFA 1079; RPM	3150	86.9	90.9	91.7	95.7	98.4	92.9	97.4	97.7	99.7	101.7	100.4	97.4	96.2	93.2				148.4
(1130; RAD/SEC)	4000	88.2	88.4	90.4	94.9	98.9	92.7	99.9	100.7	100.4	99.4	101.2	96.9	95.2	95.4				149.1
NFK 1070; RPM	5000	89.4	92.9	93.9	96.7	98.9	98.7	98.7	100.7	101.7	104.7	99.7	100.4	97.7	94.4				150.8
(1121; RAD/SEC)	6300	88.5	92.7	92.5	97.0	100.5	98.7	102.5	102.7	103.7	103.0	103.2	99.5	96.0	96.0				152.2
NFD 1062; RPM	8000	91.1	92.9	94.6	98.4	101.4	101.1	104.6	106.1	105.6	105.9	106.1	105.1	100.4	98.4				155.5
(1113; RAD/SEC)	10000	87.9	90.2	90.7	93.9	97.2	99.4	101.4	101.7	103.2	103.7	103.7	102.4	97.2	95.7				153.4
NO. OF BLADES 44	12500	83.6	86.3	87.6	91.3	94.6	95.8	97.8	99.1	100.1	100.1	100.3	101.1	94.1	92.3				151.6
FAN TIP SPEED	16000	81.9	83.2	84.2	88.4	92.4	93.4	95.9	97.2	98.2	98.9	98.4	100.2	91.4	90.2				151.8
FT/SEC	20000	77.2	80.0	80.2	84.0	87.7	89.2	92.5	94.0	95.2	95.7	95.0	97.2	87.5	87.0				151.1
OVERALL MEASURED																			163.1
OVERALL CALCULATED		101.7	103.5	104.3	107.1	109.4	108.3	111.4	112.2	112.8	114.0	113.9	113.9	113.0	113.0				
PND8		113.8	116.2	117.1	119.9	122.3	120.7	123.9	124.5	125.3	126.9	126.0	125.2	123.4	122.2				

SPL INPUT AT STD	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	G.	B.	C.	PWL
FREQ. (0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.	(0.	(10.	)	
50	82.1	81.6	82.1	83.8	84.8	83.6	86.8	87.3	88.6	89.8	91.8	95.6	99.8	104.8				142.8
63	82.0	84.0	84.3	84.3	85.5	84.5	89.3	88.5	89.8	90.8	92.5	97.3	101.3	106.0				144.2
RADIAL 100. FT. (30. M)	80	81.6	82.6	83.9	84.1	84.9	84.9	88.6	88.6	90.4	91.9	93.9	97.6	101.1				143.8
VEHICLE PPG	125	82.6	82.9	83.7	84.7	84.9	83.9	86.9	86.9	88.2	90.2	92.2	94.4	96.9				142.2
CONFIG NC-080	160	82.9	82.1	82.6	83.4	84.9	83.6	87.9	87.6	89.6	91.4	93.9	96.4	99.1				140.0
LUG ATT FAN	200	86.5	84.5	86.0	85.5	88.5	87.5	95.0	93.0	94.3	96.3	98.8	102.3	104.5				141.9
DATE 07-10-75	250	87.8	88.6	90.3	90.3	91.0	90.8	94.3	94.8	97.0	99.0	101.3	104.8	105.8				146.6
RUN 162	315	91.0	91.6	92.5	93.5	93.8	92.8	96.5	96.8	98.3	100.0	102.0	104.3	104.3				148.8
TAPE A723	400	90.4	92.4	92.2	96.2	96.2	94.9	98.2	96.7	96.9	98.2	99.2	100.7	99.7				147.3
BAR 28.8 HG (97084. N/M2)	500	88.6	89.8	89.8	90.3	90.8	88.8	92.6	93.6	95.1	96.6	99.3	101.6	100.6				145.8
TAMB 68. DEG F (293. DFG K)	630	90.7	92.5	92.0	93.5	94.0	92.7	96.2	96.7	98.0	99.5	100.7	101.7	101.2				147.6
TWET 65. DFG F (291. DFG K)	800	91.3	92.8	92.3	92.5	93.8	92.0	95.0	94.5	96.3	98.8	99.8	99.8	100.0				146.4
HACT 0. GH/M3 (. KG/M3)	1000	90.5	92.6	92.0	93.2	94.0	92.5	96.0	96.0	97.2	99.7	100.2	99.5	98.7				146.8
NFA 1145. RPM (1200. RAD/SEC)	1250	91.3	93.3	92.8	94.3	96.0	93.3	97.0	96.5	98.5	104.3	102.5	101.8	98.8				149.1
NFK 1136. RPM (1190. RAD/SEC)	1600	92.1	92.6	91.9	94.6	94.9	94.4	101.1	100.1	99.4	101.1	100.1	99.4	97.9				148.7
NFD 1062. RPM (1113. RAD/SEC)	2000	90.2	91.0	91.7	95.7	98.0	95.2	99.2	100.5	98.7	100.2	99.5	97.7	96.7				148.3
NO. OF BLADES 44	2500	87.9	91.2	92.4	94.9	96.4	95.9	99.4	99.7	100.9	101.9	100.9	97.2	96.7				148.9
FAN TIP SPEED FT/SEC	3150	88.7	92.7	93.4	99.4	98.9	96.4	101.7	99.7	103.7	104.2	101.2	98.9	96.7				150.9
OVERALL MEASURED	4000	91.2	91.7	94.4	96.9	100.9	96.9	102.9	104.7	103.2	102.4	103.9	99.4	97.4				152.1
OVERALL CALCULATED	5000	92.2	94.9	96.4	98.9	100.2	100.7	100.7	103.4	103.7	106.9	102.4	102.7	100.2				153.0
PND8	6300	90.2	94.7	93.5	98.5	101.0	100.7	103.5	103.5	104.5	104.7	105.0	101.0	98.0				153.5
	8000	92.4	94.4	96.1	100.1	102.6	102.1	104.6	106.6	105.9	106.4	106.4	105.9	101.9				156.0
	10000	90.4	92.4	92.7	96.7	99.7	101.4	102.9	103.4	104.9	105.2	105.7	104.2	99.2				155.2
	12500	86.1	88.8	90.1	93.8	96.8	98.1	99.6	100.8	101.0	102.3	102.3	103.1	96.8				153.5
	16000	83.7	85.4	86.7	90.9	94.4	95.4	97.2	98.9	99.4	100.2	100.2	102.4	93.2				153.5
	20000	79.7	82.0	82.7	86.2	89.7	91.7	93.7	95.7	97.8	97.7	97.0	99.0	89.7				153.0
																		164.7

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 89 DAY 0 HR: 0:9  
 DEG, F, 70 PERCENT REL. HUM, DAY)

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59, 70 PERCENT REL. HUM, DAY)																PWL	
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.	(0.	(0.	
50	73.3	71.6	73.6	72.8	74.3	71.6	76.8	75.1	76.8	77.6	79.1	88.6	83.1	86.3				127.5
63	71.0	72.3	79.3	72.3	73.3	71.3	83.5	76.5	76.3	78.3	79.8	82.0	83.8	86.5				129.2
RADIAL 100. FT.	80	69.1	70.1	71.6	71.4	72.1	71.9	75.4	75.4	77.1	78.1	79.4	80.9	83.1	84.9			127.2
(30. M)	100	70.1	70.9	71.9	72.1	72.9	71.6	74.9	74.4	79.5	76.6	78.1	80.1	81.1	81.4			125.9
VEHICLE PPG	125	69.4	70.2	70.9	72.4	72.7	70.9	76.7	73.7	74.7	76.4	76.9	78.2	79.4	79.7			125.1
CONFIG NC-080	160	68.4	68.1	68.9	69.4	70.4	69.6	73.1	72.6	73.6	74.9	77.1	78.1	80.6	80.6			124.5
LOC ATT FAN	200	68.3	69.5	71.3	71.0	71.8	71.8	76.0	76.3	77.8	79.8	80.8	83.0	85.3	84.0			128.4
DATE 07-10-75	250	73.5	73.8	76.3	76.0	78.8	76.3	80.0	80.0	81.8	83.8	84.8	86.5	87.3	86.3			131.8
RUN 163	315	75.8	76.3	78.3	79.0	79.3	78.0	81.5	81.8	82.8	84.5	85.5	86.8	86.3	84.5			132.5
TAPE A723	400	75.9	75.7	77.4	78.9	80.9	78.2	80.7	81.9	82.2	82.7	84.9	84.9	83.4	80.7			131.5
BAR 28. HG	500	72.6	74.1	74.8	75.3	75.8	73.6	77.6	77.6	79.3	80.3	82.1	83.6	82.8	80.8			129.0
(97084, N/M2)	630	75.0	75.7	78.5	79.5	81.5	79.0	82.7	83.5	83.2	84.7	85.5	85.7	84.7	82.2			132.8
TAMB 68, DEG F	800	75.0	77.8	77.5	79.3	78.8	77.8	81.0	81.8	81.9	84.5	83.8	84.8	85.3	79.5			131.7
(293, DEG K)	1000	75.5	76.2	77.7	79.0	81.0	80.0	84.0	83.7	85.9	87.2	85.7	84.5	84.0	80.7			133.5
TWET 65, DEG F	1250	76.3	76.3	78.3	80.8	81.3	80.3	83.5	83.5	85.8	89.5	88.3	86.8	84.0	81.3			134.8
(291, DEG K)	1600	75.4	76.4	77.4	80.9	83.4	80.6	84.6	84.4	86.1	89.4	88.1	86.1	83.9	80.9			135.1
MACT 0, GM/M3	2000	76.0	78.0	79.0	84.0	86.5	82.5	86.5	90.5	91.2	93.0	93.0	97.5	85.2	83.0			139.2
(, KG/M3)	2500	73.9	76.9	79.2	82.4	84.9	83.4	86.9	87.7	88.9	91.7	92.7	86.7	85.9	83.7			138.0
NFA 7460, RPM	3150	75.4	78.4	80.2	85.2	87.4	83.4	88.7	88.9	92.2	94.2	93.7	89.2	86.2	83.9			140.1
(782, RAD/SEC)	4000	78.4	77.4	81.2	85.2	89.4	84.7	91.9	93.4	93.4	93.2	96.2	91.2	87.9	87.9			142.1
NFK 7400, RPM	5000	81.9	83.7	85.9	90.2	92.4	93.2	93.2	96.2	97.8	101.4	97.4	97.2	93.2	88.7			146.6
(775, RAD/SEC)	6300	78.0	81.5	81.5	87.2	90.2	89.7	92.7	93.7	96.2	97.0	98.7	94.2	89.5	88.0			144.9
NFD 10620, RPM	8000	77.6	78.4	81.6	85.9	88.4	87.6	91.1	93.1	94.6	94.9	96.6	95.6	90.1	86.4			144.1
(1113, RAD/SEC)	10000	75.9	77.7	78.9	83.7	86.7	87.9	90.4	92.2	94.7	95.2	96.4	94.4	88.2	85.9			144.5
NO. OF BLADES 44	12500	73.1	74.8	76.6	80.1	83.8	84.6	87.1	89.8	91.3	92.8	93.8	94.3	86.3	83.8			143.4
FAN TIP SPEED	16000	70.9	72.4	74.2	76.9	81.4	82.4	84.9	87.7	89.4	90.9	91.7	94.2	83.7	81.7			143.7
FT/SFC	20000	68.7	70.0	71.5	73.2	78.5	77.5	80.2	82.7	84.5	86.2	87.0	90.0	79.0	76.5			141.7
OVERALL MEASURED		89.6	90.9	92.8	96.3	98.9	98.1	101.0	102.7	104.2	106.1	106.1	104.5	100.5	98.6			154.0
OVERALL CALCULATED		89.6	90.9	92.8	96.3	98.9	98.1	101.0	102.7	104.2	106.1	106.1	104.5	100.5	98.6			154.0
PND8		103.2	104.7	106.7	110.4	112.6	112.0	114.2	116.0	117.8	120.2	118.8	117.2	114.2	111.3			

SPL INPUT AT STD	MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)																PWL	
	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	
	FREQ. (0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	68.6	67.3	70.8	67.8	68.8	65.3	73.8	68.8	69.6	70.6	71.8	73.3	73.8	76.1				120.6
63	69.0	68.0	79.3	67.3	70.5	65.0	83.3	71.5	68.8	69.3	72.3	76.5	74.0	75.5				123.4
RADIAL 100. FT. ( 30. M)	80	64.1	63.3	64.4	63.8	65.1	65.4	68.6	67.9	68.9	69.1	70.1	71.9	73.4				118.5
VEHICLE PRG	100	63.7	65.9	66.1	67.9	65.9	69.9	67.1	69.9	70.9	70.9	73.9	73.9	72.4				119.3
CONFIG NC-080	125	62.7	61.7	63.9	63.7	63.9	61.9	65.2	64.7	65.9	66.7	67.7	68.9	68.9				115.6
LOC ATY FAN	160	62.2	61.7	62.9	62.4	62.9	61.9	66.6	64.4	65.1	66.1	67.1	68.6	69.6				115.5
DATE 07-10-75	200	63.3	62.8	64.5	63.8	64.0	68.6	67.5	69.3	70.3	71.5	73.3	74.0	73.8				119.0
RUN 164	250	66.0	66.5	68.5	68.5	68.8	68.3	72.0	71.8	73.3	74.0	75.5	77.3	76.8				122.7
TAPE A723	315	67.0	68.5	70.5	71.3	71.5	70.5	74.3	73.8	75.0	75.5	76.3	78.3	77.5				124.1
BAR 26.8 HG	400	67.4	67.9	68.9	70.4	72.2	69.7	73.2	72.7	73.2	73.9	74.9	76.4	74.2				122.7
(47084; N/M2)	500	66.6	67.1	67.3	67.6	68.6	66.3	69.8	70.3	72.1	73.1	73.8	76.8	73.8				121.4
TAMB 68; DEG F	630	67.2	69.0	69.5	71.2	72.0	70.7	74.2	74.5	75.0	76.7	78.7	79.7	78.5				125.2
(293; DEG K)	800	66.3	67.8	68.3	69.3	71.0	69.3	72.8	72.3	73.3	75.8	76.3	77.0	75.5				123.2
TNET 65; DEG F	1000	65.7	67.7	69.0	71.0	72.7	70.7	75.0	75.5	77.7	80.2	80.0	79.2	75.2				126.2
(291; DEG K)	1250	68.5	69.5	70.5	73.0	74.5	73.3	77.3	77.5	80.0	82.5	82.0	82.3	79.3				128.7
MACT 0. GH/M3	1600	69.1	70.1	71.4	73.9	76.1	74.6	79.1	79.4	81.1	83.9	83.1	83.1	78.9				129.9
(. KG/M3)	2000	69.5	70.7	71.2	74.5	77.7	75.5	80.2	81.5	81.7	84.5	85.5	82.7	79.7				131.1
NFA 573; RPM	2500	68.9	72.4	74.2	76.2	79.2	77.9	82.4	83.4	85.9	88.2	88.9	85.9	83.4				134.4
( 400; RAD/SEC)	3150	70.4	73.2	74.4	79.4	80.9	77.9	83.7	84.9	87.9	90.2	90.4	88.7	84.4				136.3
NFK 568; RPM	4000	74.9	73.2	76.4	79.9	84.4	81.2	88.7	91.2	90.9	90.9	95.7	91.7	86.7				140.2
( 595; RAD/SEC)	5000	72.9	73.9	76.7	78.4	81.2	82.7	83.7	86.9	88.2	91.9	90.2	91.9	86.4				138.0
NFD 1062; RPM	6300	72.0	74.0	73.7	78.0	81.0	81.2	85.7	87.5	90.0	90.7	94.0	90.5	84.5				139.1
(1113; RAD/SEC)	8000	70.6	70.9	73.4	75.9	78.6	78.6	82.4	85.9	87.4	87.4	91.1	91.1	84.6				137.6
NO. OF BLADES 44	10000	70.0	70.0	70.7	73.5	76.2	78.7	81.5	83.5	86.7	88.0	89.5	89.7	83.0				137.3
FAN TIP SPEED	12500	66.6	66.6	68.6	71.1	74.1	76.3	78.6	81.3	84.1	85.3	87.8	89.1	80.8				136.6
FT/SEC	16000	66.5	66.2	68.0	69.5	71.7	73.7	76.2	79.0	81.2	82.7	84.7	88.0	77.7				136.3
20000	67.3	69.3	67.8	68.8	68.5	69.3	73.5	74.0	75.5	77.5	79.3	83.0	71.8				134.1	
OVERALL MEASURED																		147.8
OVERALL CALCULATED	83.1	83.9	86.3	87.9	90.6	89.8	94.6	96.3	97.8	99.3	101.3	100.1	94.8	92.7				
PND8	96.8	96.3	99.1	101.8	105.0	103.3	108.9	110.6	111.4	112.4	115.2	112.9	108.5	107.2				

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, 70 PERCENT REL. HUM., DAY) 0:9  
 PROC. DATE - MONTH 05 DAY 0 HR: 0:9  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

SPL INPUT AT STD	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)		
	50	77.1	76.3	77.6	77.3	79.1	77.1	80.6	80.8	82.3	83.6	84.6	87.8	91.1	94.8				134.4
	63	75.5	77.3	81.0	78.3	79.0	77.3	85.3	81.8	82.3	83.5	84.8	88.3	91.5	95.5				135.2
RADIAL 140. FT. (30. M)	80	74.9	76.1	77.4	77.4	78.4	78.1	81.4	81.4	83.1	84.1	85.6	88.4	91.1	94.1				134.5
VEHICLE PPG	100	76.4	75.6	77.9	77.4	79.1	78.1	81.4	81.1	82.1	83.4	84.6	87.6	89.4	90.1				133.1
CONFIG NC-080	125	75.2	76.2	76.2	76.9	78.7	76.7	79.7	80.2	80.7	82.2	83.4	85.2	87.2	87.7				131.4
LOC ATT FAN	160	75.1	75.9	76.6	77.9	79.4	76.6	81.4	80.9	80.6	82.9	84.9	86.4	89.1	89.6				132.7
DATE 07-10-75	200	75.5	76.8	78.0	77.5	78.8	79.0	82.8	82.8	84.8	87.0	88.8	91.8	94.3	92.5				136.5
RUN 165	250	80.8	81.3	83.3	83.0	83.3	83.0	86.8	87.0	88.8	90.5	92.0	94.8	95.8	94.0				139.4
TAPE A723	315	82.8	83.5	85.5	86.0	86.3	85.3	88.8	89.0	90.8	91.8	93.3	95.0	95.0	93.0				140.3
BAR 28.5 HG	400	81.9	83.2	83.2	85.2	86.2	83.9	87.4	87.4	88.2	89.7	90.7	91.7	90.9	88.9				137.9
(97084, N/M2)	500	79.8	81.1	81.8	82.1	82.6	80.8	84.3	84.8	86.6	87.8	89.6	91.6	91.6	89.1				136.6
TAMB 88, DEG F	630	82.0	83.5	84.0	86.0	86.0	85.0	89.0	88.2	90.0	91.5	92.5	93.0	92.2	89.7				139.3
(293, DEG K)	800	82.0	85.3	83.5	84.0	85.5	84.5	89.0	88.0	89.5	90.5	91.3	90.5	91.8	88.3				138.5
TWET 85, DEG F	1000	82.0	84.2	84.7	85.2	86.5	84.7	88.5	89.0	90.0	92.0	94.7	91.2	90.5	88.2				139.6
(291, DEG K)	1250	82.8	84.0	84.3	87.3	88.3	85.8	90.0	91.8	93.3	96.3	95.3	92.5	89.8	88.3				141.7
HACT 0, GM/M3	1600	81.6	82.1	83.4	85.4	88.6	85.4	88.6	88.4	90.9	93.1	92.6	90.9	88.4	86.4				139.5
(, KG/M3)	2000	81.2	82.7	83.7	86.5	89.5	85.7	89.7	90.5	90.7	92.7	93.2	90.0	88.7	86.7				140.0
NFA 906, RPM	2500	78.2	81.7	84.2	86.9	88.4	86.4	90.4	90.4	92.4	94.7	94.7	89.7	89.2	86.9				141.0
(949, RAD/SEC)	3150	79.4	82.9	83.7	89.2	90.2	87.7	91.9	92.2	94.9	95.9	94.9	90.9	88.7	86.4				142.5
NFX 898, RPM	4000	82.2	81.4	84.7	88.2	92.4	87.9	93.9	94.9	94.9	94.7	97.2	92.2	89.7	89.9				143.7
(941, RAD/SEC)	5000	82.9	86.4	88.9	92.2	92.9	93.7	94.2	96.4	97.4	100.2	96.7	96.4	93.4	89.4				146.4
NFD 1062, RPM	6300	85.2	88.2	88.7	94.2	97.0	95.7	100.5	101.0	104.0	102.2	103.5	98.7	94.5	94.2				151.1
(1113, RAD/SEC)	8000	82.9	85.4	88.6	92.1	94.4	93.4	97.1	98.6	99.4	99.1	100.4	99.1	93.9	91.1				148.8
NO. OF BLADES 44	10000	81.5	84.2	84.2	88.7	92.2	93.0	95.7	96.0	98.5	98.7	98.7	97.0	91.2	89.5				148.1
FAN TIP SPEED	12500	78.1	81.1	82.1	86.1	89.8	90.8	92.8	94.8	96.8	96.8	97.6	97.1	90.1	87.8				147.7
FT/SEC	16000	76.2	78.0	79.5	83.0	87.5	88.5	90.7	92.5	93.5	95.0	95.0	96.0	87.2	85.2				147.4
OVERALL MEASURED	20000	72.0	74.3	76.0	78.8	82.5	83.8	87.0	88.5	90.5	91.5	92.0	92.5	83.0	81.8				146.6
OVERALL CALCULATED		94.9	96.8	96.1	101.2	103.4	102.4	106.0	106.8	108.7	109.0	109.5	107.9	105.8	105.1				158.0
PND8		107.5	109.7	111.2	114.6	114.8	115.3	119.5	120.0	122.2	122.1	122.8	120.0	117.5	116.4				

SPL INPUT AT STD	PROG. DATE - MONTH 16 DAY 0 HR: 0.9																PWL	
	FREQ.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.		0.
	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)	
50	79.8	78.6	79.6	80.8	82.1	80.3	83.6	83.3	84.8	86.8	88.1	91.1	95.1	99.3				138.1
63	79.5	80.5	82.3	81.3	81.8	80.3	86.5	84.8	85.3	87.3	88.5	92.3	95.8	99.8				138.9
RADIAL 150. FT. (30. M)	80	77.9	79.1	80.1	80.6	80.9	80.9	84.1	84.6	86.1	87.9	89.4	92.4	95.6	98.6			138.5
VEHICLE PPG	100	78.6	78.9	81.1	80.9	82.1	81.4	84.1	83.6	85.1	86.6	88.6	92.1	94.1	94.6			137.1
CONFIG NC-080	125	77.9	78.7	79.7	79.9	80.7	79.7	82.7	82.4	83.9	85.7	87.2	89.4	91.7	91.4			135.0
LOC ATT FAN	160	78.4	81.6	79.9	80.9	80.6	80.9	86.4	85.1	87.4	86.9	88.9	90.9	93.9	94.1			137.2
DATE 07-10-75	200	79.3	80.8	81.5	81.5	82.0	82.5	86.5	87.0	88.5	91.0	92.5	96.0	98.3	98.8			140.5
RUN 186	250	84.0	84.8	86.5	86.5	87.3	86.3	90.3	90.8	92.8	94.3	95.8	100.0	98.0				143.3
TAPE A723	315	86.5	87.5	88.3	89.5	90.3	88.5	92.0	92.5	93.5	95.3	97.3	99.0	99.8	97.8			144.1
BAR 28.8 HG (97084; N/M2)	400	86.2	87.2	88.9	88.4	88.9	87.2	90.4	90.2	90.9	92.4	93.9	95.7	95.2	93.7			141.3
TAMB 68; DEG F (293; DEG K)	500	83.8	85.1	86.3	86.3	86.3	84.6	88.6	88.8	90.1	92.1	93.6	96.3	95.6	93.8			140.8
TWET 65; DEG F (291; DEG K)	630	86.2	87.5	87.5	89.0	90.0	88.7	92.5	92.5	93.5	95.2	97.2	96.5	94.0				143.0
HACT 0; GM/MS (; KG/MS)	800	88.0	90.3	91.5	94.5	95.0	92.5	94.8	92.3	94.0	96.0	96.0	95.5	95.0	92.5			144.4
NFA 995; RPM (1042; RAD/SEC)	1000	87.0	87.5	87.5	89.7	89.7	90.0	93.7	92.7	93.7	95.7	95.5	95.2	94.2	92.0			143.0
NFK 988; RPM (1033; RAD/SEC)	1250	88.3	88.8	88.5	91.3	89.8	89.8	92.8	93.3	94.3	96.0	97.0	96.5	94.8	91.3			143.7
NFD 1062; RPM (1113; RAD/SEC)	1600	86.4	90.4	89.6	90.9	91.6	90.4	94.1	95.6	97.9	95.9	97.4	95.1	96.1	96.9			144.8
NO. OF BLADES 44	2000	85.2	87.7	87.7	91.2	92.7	91.2	96.0	96.0	94.2	96.2	95.7	94.0	92.7	90.7			144.2
FAN TIP SPEED FT/SEC	2500	82.9	87.2	88.7	90.7	92.7	92.4	96.4	94.2	95.9	97.4	97.7	93.2	92.9	90.9			144.8
OVERALL MEASURED	NFA 995; RPM	3150	83.4	87.4	88.9	93.2	95.4	90.7	95.4	94.9	96.7	98.4	97.4	92.2	89.9			144.8
OVERALL CALCULATED	NFK 988; RPM	5000	86.4	89.4	91.4	94.2	95.2	95.7	96.4	98.2	98.7	101.9	97.9	98.2	95.2	91.7		145.5
	NFD 1062; RPM	8000	85.1	89.4	92.6	96.6	98.9	98.1	101.4	103.4	103.9	103.1	104.4	102.6	98.6	95.6		146.5
	NO. OF BLADES 44	12500	81.3	84.1	85.3	88.8	92.8	93.6	95.3	97.1	98.1	98.6	98.6	98.8	92.3	89.3		148.1
	FAN TIP SPEED FT/SEC	20000	74.8	76.5	78.3	81.5	85.0	86.8	89.8	90.8	92.5	93.3	94.5	85.3	83.8			151.4
	OVERALL MEASURED		98.9	100.9	102.1	104.8	106.6	105.7	109.1	109.7	110.8	111.3	111.6	111.0	109.7	109.0		153.1
	OVERALL CALCULATED		98.9	100.9	102.1	104.8	106.6	105.7	109.1	109.7	110.8	111.3	111.6	111.0	109.7	109.0		150.7
	PND8		111.0	113.4	114.6	117.4	119.3	118.2	121.9	122.3	123.7	124.0	124.1	122.5	120.6	119.2		149.6
																		149.6
																		148.6
																		160.6



## PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. PROC. DATE - MONTH 21 DAY 0 HR. 0:9  
DEG. F., 70 PERCENT REL. HUM. DAY)

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30,	40,	50,	60,	70,	80,	90,	100,	110,	120,	130,	140,	150,	160,	0,	0,		0,
FREQ.	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0,	(0,	(0,	
50	82.1	81.3	81.6	83.3	84.8	84.1	85.8	87.6	88.1	89.3	90.8	94.8	99.1	103.8				142.1
63	81.0	83.5	84.5	84.5	85.5	84.3	89.3	88.3	89.8	90.8	92.0	96.0	100.3	105.0				143.3
RADIAL 100. FT. (30. M)	80	80.9	82.6	83.4	83.9	84.6	84.4	88.6	88.6	90.4	91.1	93.1	96.9	100.4	104.1			143.2
VEHICLE PPG	125	81.4	82.4	82.9	83.9	84.4	83.2	86.7	86.9	88.2	89.9	91.2	92.7	94.9	96.4			141.2
CONFIG NC-080	160	81.9	81.4	85.6	85.6	86.1	85.4	88.1	87.1	90.1	92.1	94.1	95.4	98.4	99.4			139.0
LUC ATT FAN	200	82.8	84.3	87.0	86.5	87.0	86.8	90.8	91.0	93.0	95.3	97.0	100.5	103.5	101.3			145.2
DATE 07-10-75	250	87.0	88.0	90.0	89.8	90.5	90.0	93.5	94.0	96.0	98.3	100.3	103.5	103.5	101.0			147.2
RUN 167	315	90.3	90.3	92.0	92.8	94.0	92.5	95.8	96.0	97.5	98.5	100.5	103.0	102.3	100.5			147.6
TAPE A723	400	89.7	90.7	90.4	92.2	93.7	91.4	94.7	94.4	94.7	96.7	97.9	98.9	98.2	97.7			145.1
BAR 28.8 HG (97084 N/M2)	500	88.3	88.6	90.1	91.1	90.8	90.3	93.1	93.8	94.6	95.8	98.6	100.3	99.1	97.1			145.0
TAMB 68 DEG F (293 DEG K)	630	90.0	91.0	91.0	92.7	92.7	92.0	95.0	95.0	97.0	98.7	99.2	100.5	99.0	96.5			146.2
THET 65 DEG F (291 DEG K)	800	89.8	91.0	91.0	92.0	93.8	91.0	94.5	94.3	95.8	98.8	98.5	98.3	98.0	95.5			145.6
HACT 0. GM/M3 (1.133 KG/M3)	1000	89.2	90.0	90.7	92.5	93.0	91.5	95.2	95.0	96.7	98.2	99.2	98.2	97.0	94.2			145.7
NFA 10790 RPM (1130 RAD/SEC)	1250	89.0	90.0	90.3	93.0	93.0	91.5	95.8	96.8	97.5	99.8	99.8	98.8	97.0	94.5			146.5
NFK 10695 RPM (1120 RAD/SEC)	1600	88.6	89.9	91.6	93.1	93.9	91.6	97.9	98.1	98.1	101.1	100.1	97.6	96.1	93.1			147.3
NFD 10620 RPM (1113 RAD/SEC)	2000	88.0	89.5	91.2	94.7	96.5	91.5	96.5	98.5	97.2	99.7	98.2	96.7	94.5	93.5			146.8
NO. OF BLADES 44	2500	85.9	88.7	91.2	93.9	95.2	94.4	97.4	96.7	97.9	100.2	99.7	96.4	95.4	93.9			147.1
FAN TIP SPEED FT/SEC	3150	86.2	90.7	91.7	96.2	97.9	93.4	99.4	99.4	99.7	102.2	99.9	97.2	96.2	93.2			148.8
OVERALL MEASURED	4000	88.4	88.2	90.9	94.4	96.7	93.2	99.2	101.4	100.7	100.2	101.2	97.2	94.9	95.7			149.2
OVERALL CALCULATED	5000	89.4	92.2	93.7	96.7	98.4	98.2	98.7	100.9	101.4	104.7	99.7	101.2	97.9	93.9			150.8
PNDB	6300	88.5	92.0	92.2	97.0	99.7	99.2	102.0	102.7	103.7	103.2	103.7	100.0	96.2	96.2			152.2
	8000	91.1	92.4	94.6	98.9	101.4	100.9	104.1	106.6	105.9	105.6	106.1	105.1	101.1	98.4			155.6
	10000	87.5	89.7	90.7	94.7	97.5	99.2	101.5	101.7	103.5	103.7	103.7	102.5	97.0	95.0			153.5
	12500	83.6	86.1	87.1	91.3	94.3	95.8	97.8	99.1	99.8	100.8	100.6	100.6	94.8	92.1			151.7
	16000	81.5	83.5	84.5	88.5	92.5	94.0	95.7	97.5	98.2	99.2	99.2	100.2	91.5	90.0			152.0
	20000	77.0	79.0	80.3	84.0	87.5	89.0	92.5	93.3	94.8	96.0	95.8	96.8	87.5	86.3			151.0
OVERALL MEASURED		101.6	103.1	104.4	107.2	109.2	108.2	111.4	112.5	113.0	114.1	114.0	114.0	113.0	113.0			163.2
OVERALL CALCULATED		113.7	115.7	117.1	120.1	122.1	120.5	123.8	124.9	125.5	127.0	126.0	125.3	123.4	122.2			

SPL INPUT AT STD	ANGLES FROM INLET IN DEGREES (AND RADIANS)																PWL	
	30, (0.52)	40, (0.70)	50, (0.87)	60, (1.05)	70, (1.22)	80, (1.40)	90, (1.57)	100, (1.75)	110, (1.92)	120, (2.09)	130, (2.27)	140, (2.44)	150, (2.62)	160, (2.79)	0, (0.)	0, (0.)		0, (0.)
FREQ. 50	82.1	81.3	82.3	83.6	84.6	84.1	86.6	88.1	89.1	90.1	91.6	96.1	100.3	104.6				142.9
63	81.5	83.8	84.0	84.8	85.5	84.0	89.3	88.3	89.5	90.8	92.8	97.0	100.8	105.5				143.8
RAJIAL 100. FT. (30. M)	80	81.4	82.6	83.6	84.1	84.6	84.6	86.1	88.6	90.1	91.6	93.6	97.4	101.4	105.1			143.9
VEHICLE PPG	125	82.7	83.2	83.7	84.9	84.7	83.7	87.2	87.2	88.2	89.4	91.7	94.2	96.4	97.2			141.8
CONFIG NC-080	160	83.1	81.6	82.9	83.6	84.9	83.4	87.4	87.6	89.1	90.9	93.4	96.1	98.9	100.4			139.7
LOC ATT FAN	200	86.8	84.5	86.0	85.3	89.0	87.3	94.3	93.0	94.0	96.3	99.0	101.5	104.5	103.3			146.6
DATE 07-10-75	250	87.8	88.3	90.3	90.3	91.0	90.3	94.3	94.8	97.0	99.3	101.5	104.5	105.3	102.8			148.4
RUN 168	315	91.3	91.8	92.3	93.3	93.8	93.0	96.0	96.8	96.0	100.3	101.8	104.0	104.0	102.3			148.7
TAPE A723	400	90.4	92.2	92.4	95.9	95.9	94.2	98.2	96.7	96.9	98.2	98.9	100.2	99.4	98.9			147.0
BAR 28.2 HG	500	88.3	89.8	90.1	90.3	90.6	88.3	92.6	93.6	95.1	96.6	99.3	101.6	100.6	98.8			145.8
(97084, N/M2)	630	90.5	92.2	92.2	93.7	94.2	92.7	96.2	96.2	97.7	99.2	100.2	101.7	101.0	98.7			147.4
TAMB 68, DEG F	800	91.3	91.8	92.5	92.5	93.5	91.8	94.5	95.0	96.3	98.5	99.8	100.0	99.8	97.5			146.4
(293, DEG K)	1000	90.5	91.7	92.2	93.7	94.2	93.0	96.0	96.0	97.7	99.5	100.0	99.7	98.5	96.5			146.9
TMET 65, DEG F	1250	91.0	93.3	92.8	94.3	94.8	93.0	97.8	97.0	98.0	103.8	103.0	101.8	98.8	96.5			149.1
(291, DEG K)	1600	91.6	92.4	92.1	95.1	95.4	95.6	100.9	100.4	99.9	100.9	99.9	99.1	97.4	94.1			148.7
HACT 0, GM/M3	2000	90.0	91.0	91.7	95.5	95.0	95.0	99.7	99.5	98.5	100.5	99.5	97.5	96.2	95.0			148.2
(, KG/M3)	2500	88.2	90.9	92.9	94.9	96.4	95.2	99.2	99.4	100.4	101.4	101.2	97.4	96.4	96.4			148.7
NFA 11450, RPM	3150	88.7	92.2	92.7	96.4	99.4	95.7	100.9	99.4	103.4	103.9	101.2	98.4	96.4	95.7			150.6
(1200, RAD/SEC)	4000	91.2	91.2	93.7	96.4	100.7	95.9	103.2	104.2	103.4	106.4	103.4	99.4	97.4	97.9			151.9
NFK 11360, RPM	5000	92.7	94.9	96.4	98.7	100.7	100.9	100.9	103.4	103.7	106.4	101.7	102.9	99.9	96.9			152.9
(1190, RAD/SEC)	6300	90.2	94.5	93.5	98.7	101.0	100.7	103.7	104.0	104.7	104.5	104.5	101.2	97.5	97.2			153.5
NFD 10620, RPM	8000	92.1	94.6	96.4	100.1	102.6	102.4	104.6	106.6	105.6	106.1	106.6	105.6	101.9	99.6			156.0
(1113, RAD/SEC)	10000	90.0	92.5	92.7	96.7	100.0	102.0	103.5	103.7	105.0	105.5	105.5	104.2	99.5	98.0			155.4
NO. OF BLADES 44	12500	86.3	88.3	89.3	93.6	96.6	98.1	99.8	100.8	101.8	102.3	102.3	102.8	96.6	94.3			153.5
FAN TIP SPEED	16000	83.7	85.7	86.2	90.7	94.2	96.0	97.7	98.5	99.7	100.0	100.2	102.0	93.5	92.0			153.5
FT/SEC	20000	79.3	81.3	82.3	86.5	89.8	91.5	94.5	95.5	96.8	97.3	97.3	98.3	89.5	88.5			152.8
OVERALL MEASURED																		164.6
OVERALL CALCULATED		103.3	105.0	105.8	108.7	110.7	110.1	113.2	113.8	114.5	115.4	115.3	115.3	114.6	114.3			
PNOB		110.0	117.9	118.9	121.8	123.7	122.6	126.1	126.7	126.9	128.4	127.6	126.8	125.0	124.1			

SECTION V

FARFIELD NARROW-BAND DATA - REAR DRIVE

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TITLE TAKEOFF BASELINE BELLMOUTH  
INLET (REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft)

POLAR ANGLE 50 DEG

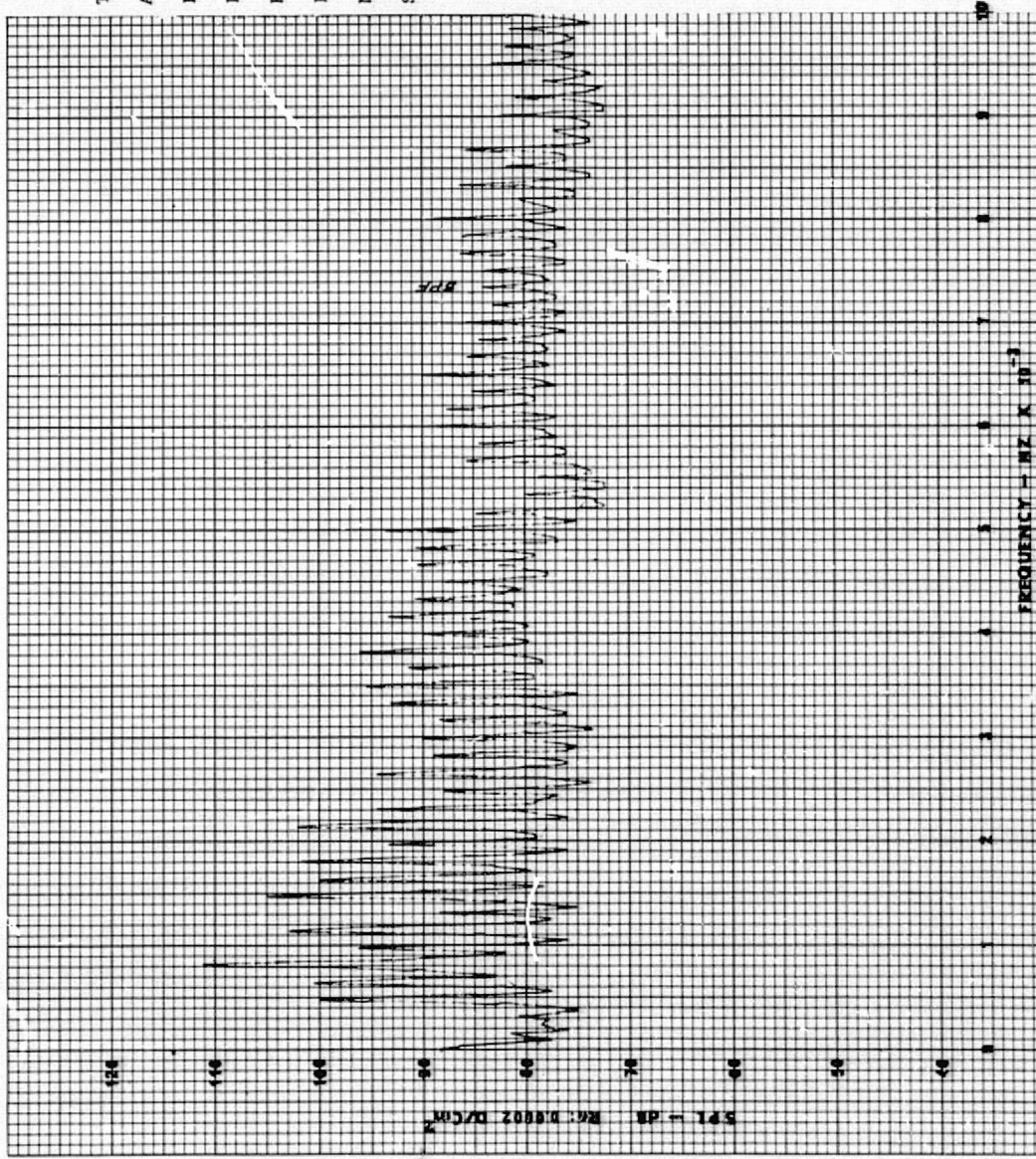
PHYSICAL SPEED 9972 RPM

READING NUMBER 725

BANDWIDTH 20 HZ

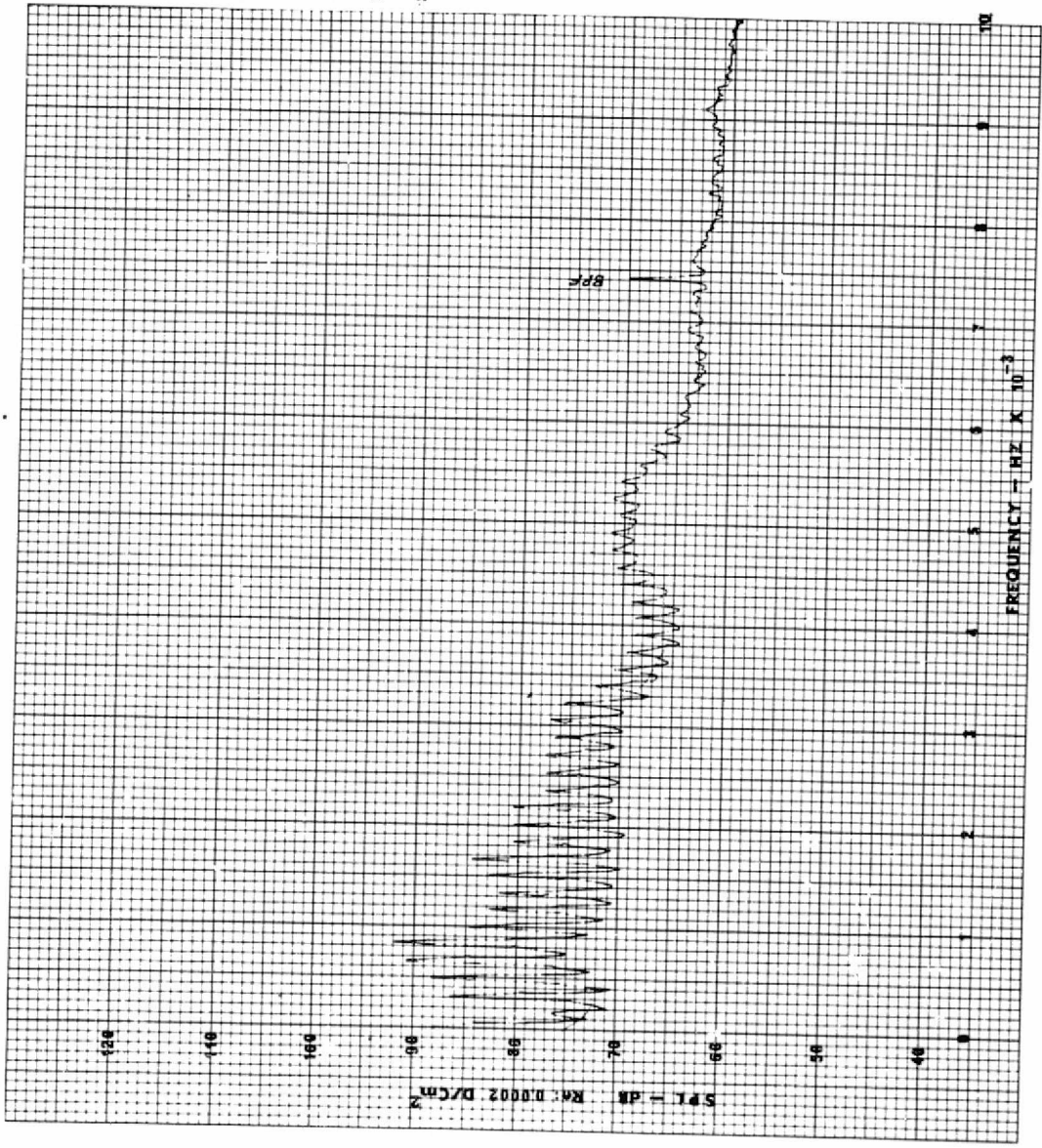
NUMBER OF SCANS 256

SAMPLE LENGTH 12.8 SEC



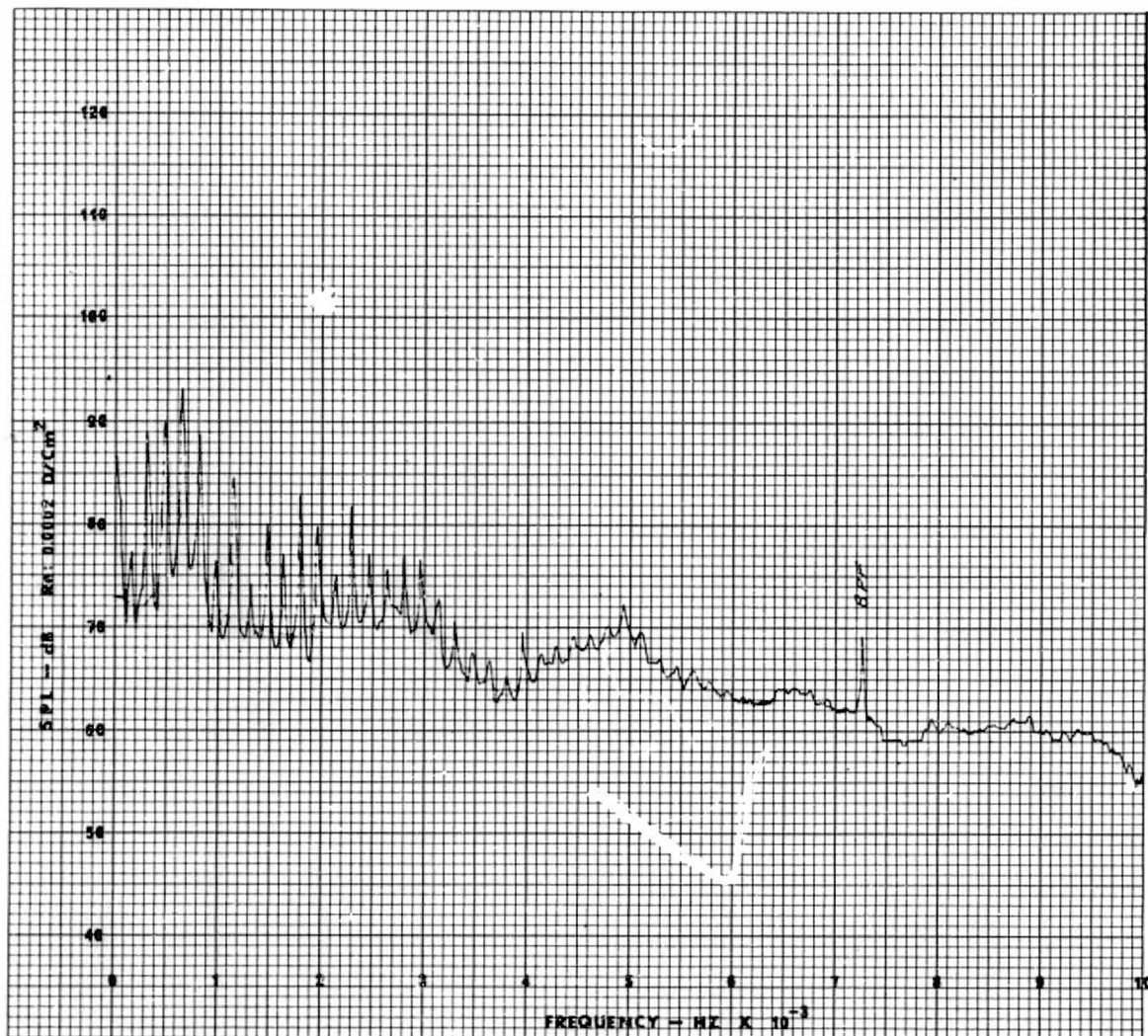
TITLE TAKEOFF ACCELERATING INLET  
(REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft)  
 POLAR ANGLE 50 DEG  
 PHYSICAL SPEED 10089 RPM  
 READING NUMBER 431  
 BANDWIDTH 20 HZ  
 NUMBER OF SCANS 256  
 SAMPLE LENGTH 12.8 SEC



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TITLE TAKEOFF HYBRID INLET  
(REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft)

POLAR ANGLE 50 DEG

PHYSICAL SPEED 9846 RPM

READING NUMBER 299

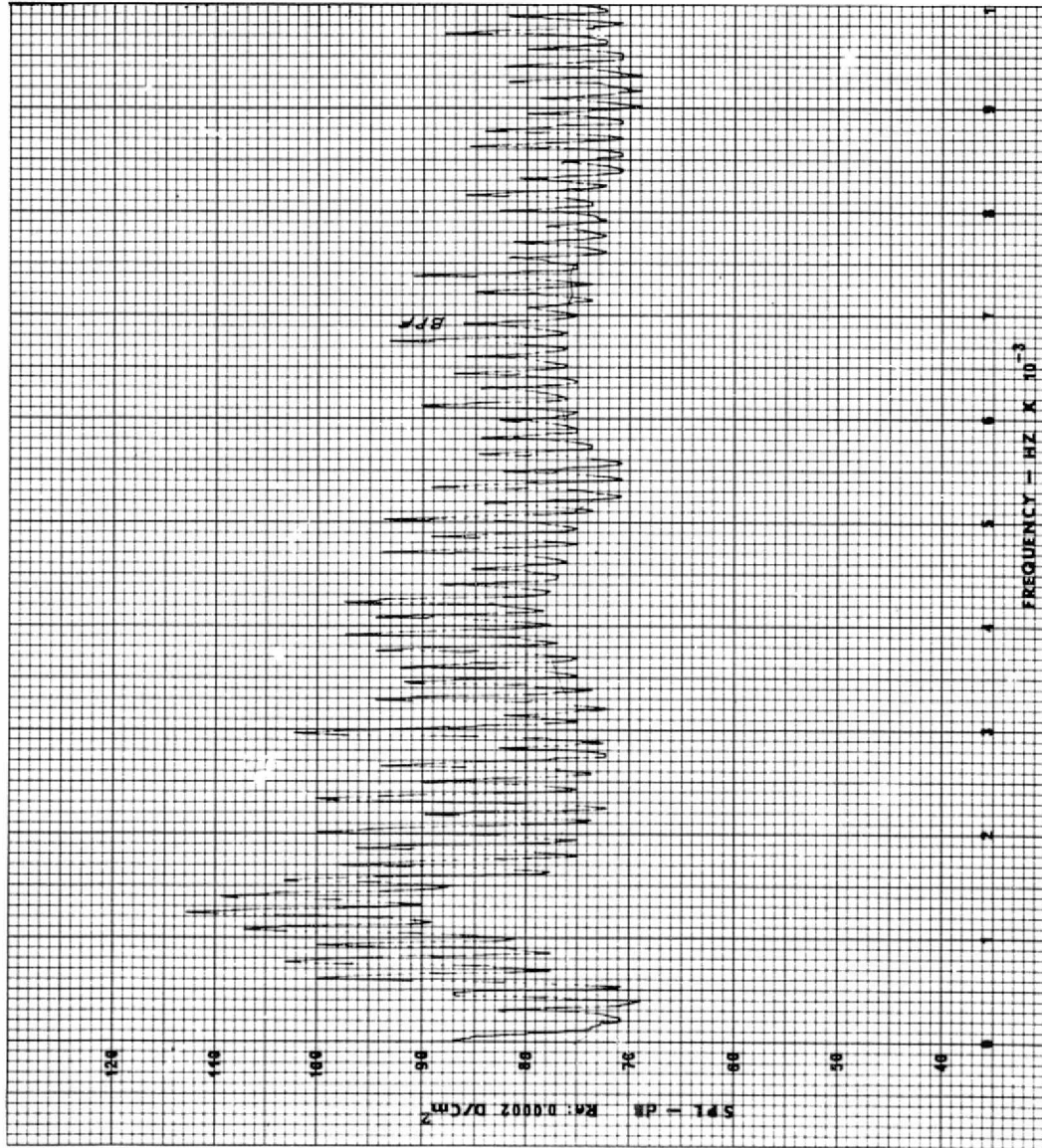
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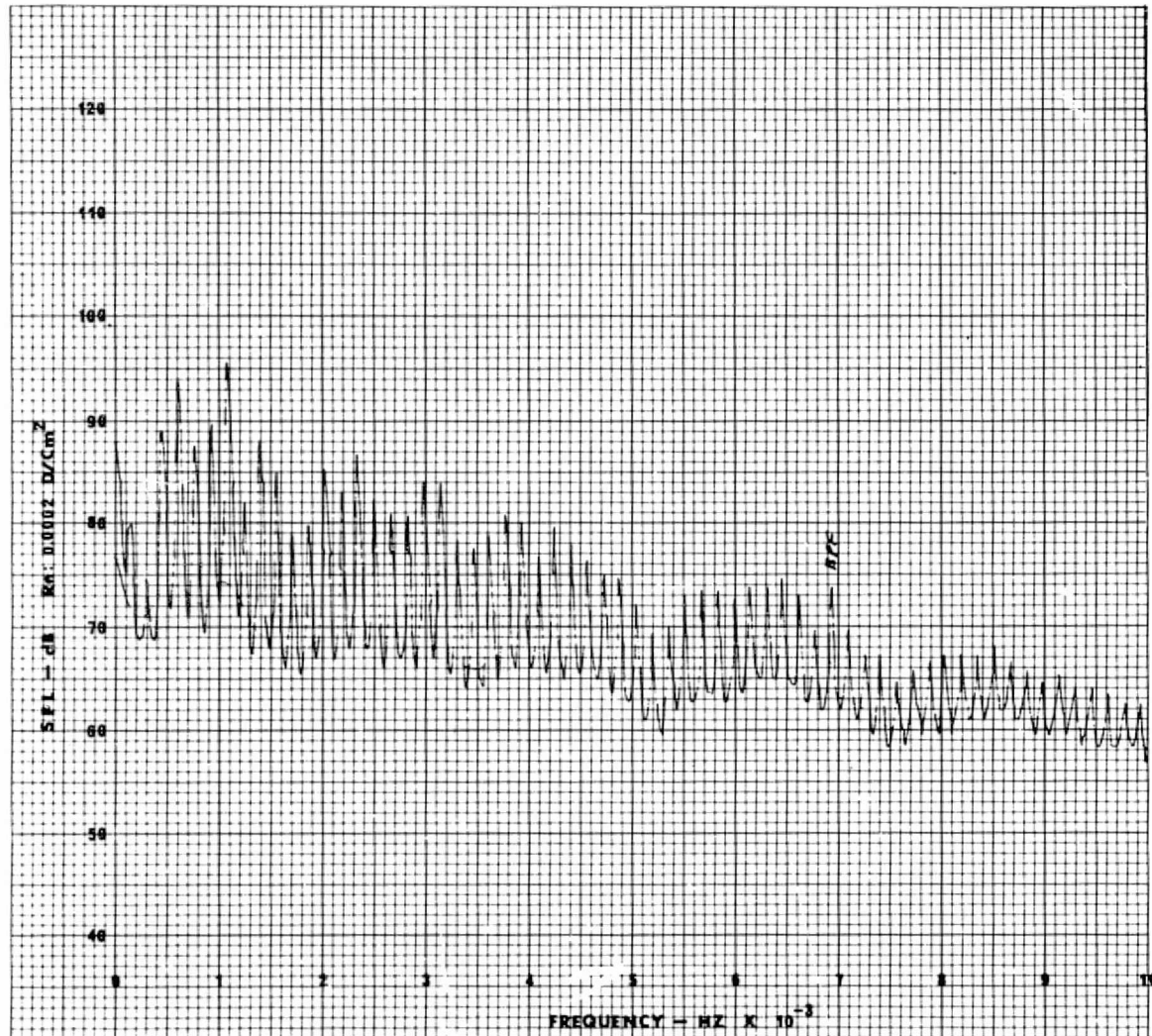
NUMBER OF SCANS 256

SAMPLE LENGTH 12.8 SEC

CUTBACK BASELINE BELLMOUTH  
INLET (REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft.)  
POLAR ANGLE 50 DEG  
PHYSICAL SPEED 9375 RPM  
READING NUMBER 673  
BANDWIDTH 20 HZ  
NUMBER OF SCANS 256  
SAMPLE LENGTH 12.8 SEC





TITLE CUTBACK ACCELERATING INLET  
(REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft.)

POLAR ANGLE 50 DEG

PHYSICAL SPEED 9440 RPM

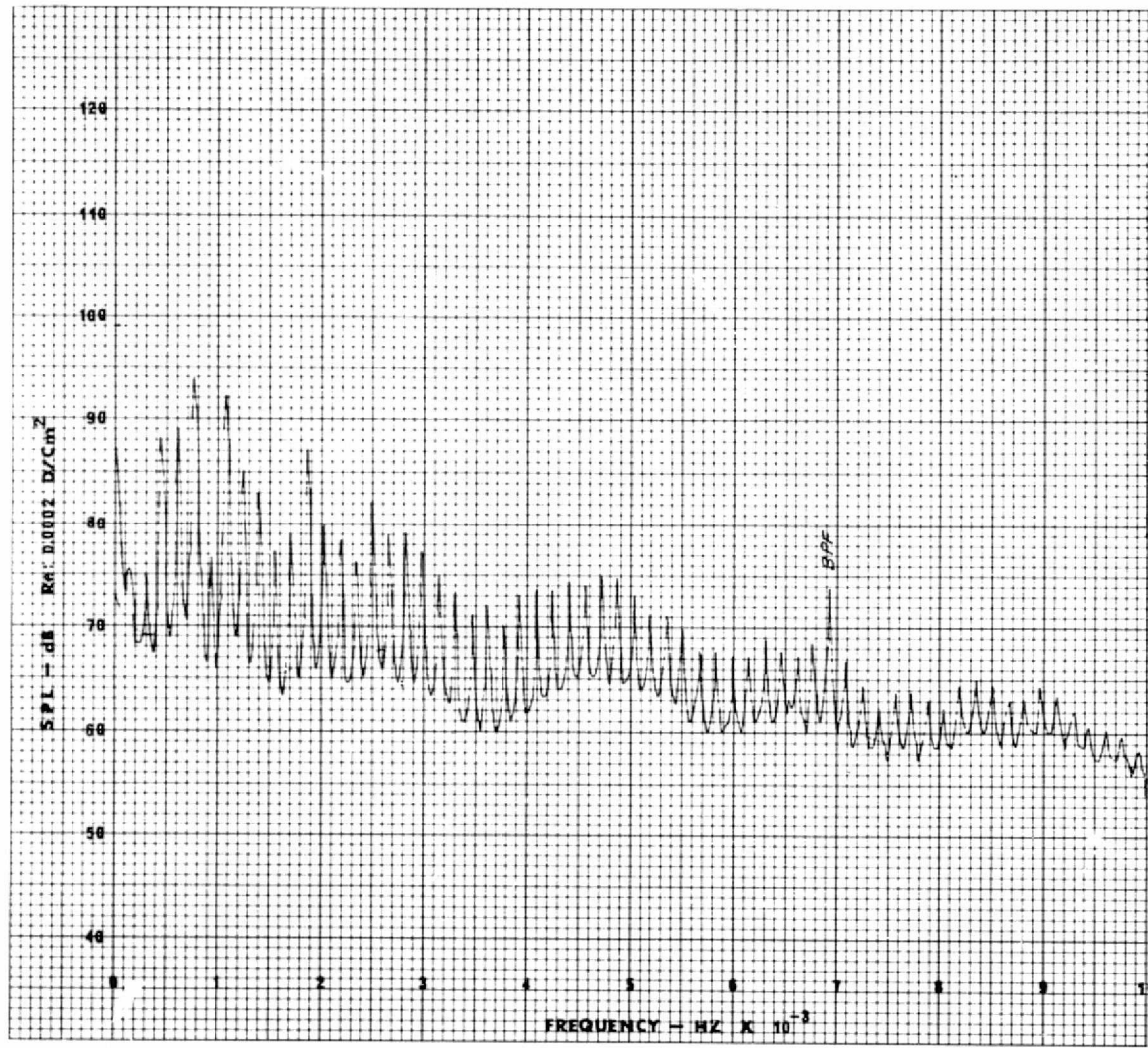
READING NUMBER 514

BANDWIDTH 20 HZ

NUMBER OF SCANS 256

SAMPLE LENGTH 12.8 SEC





TITLE CUTBACK HYBRID INLET  
 (REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft )

POLAR ANGLE 50 DEG

PHYSICAL SPEED 9410 RPM

READING NUMBER 343

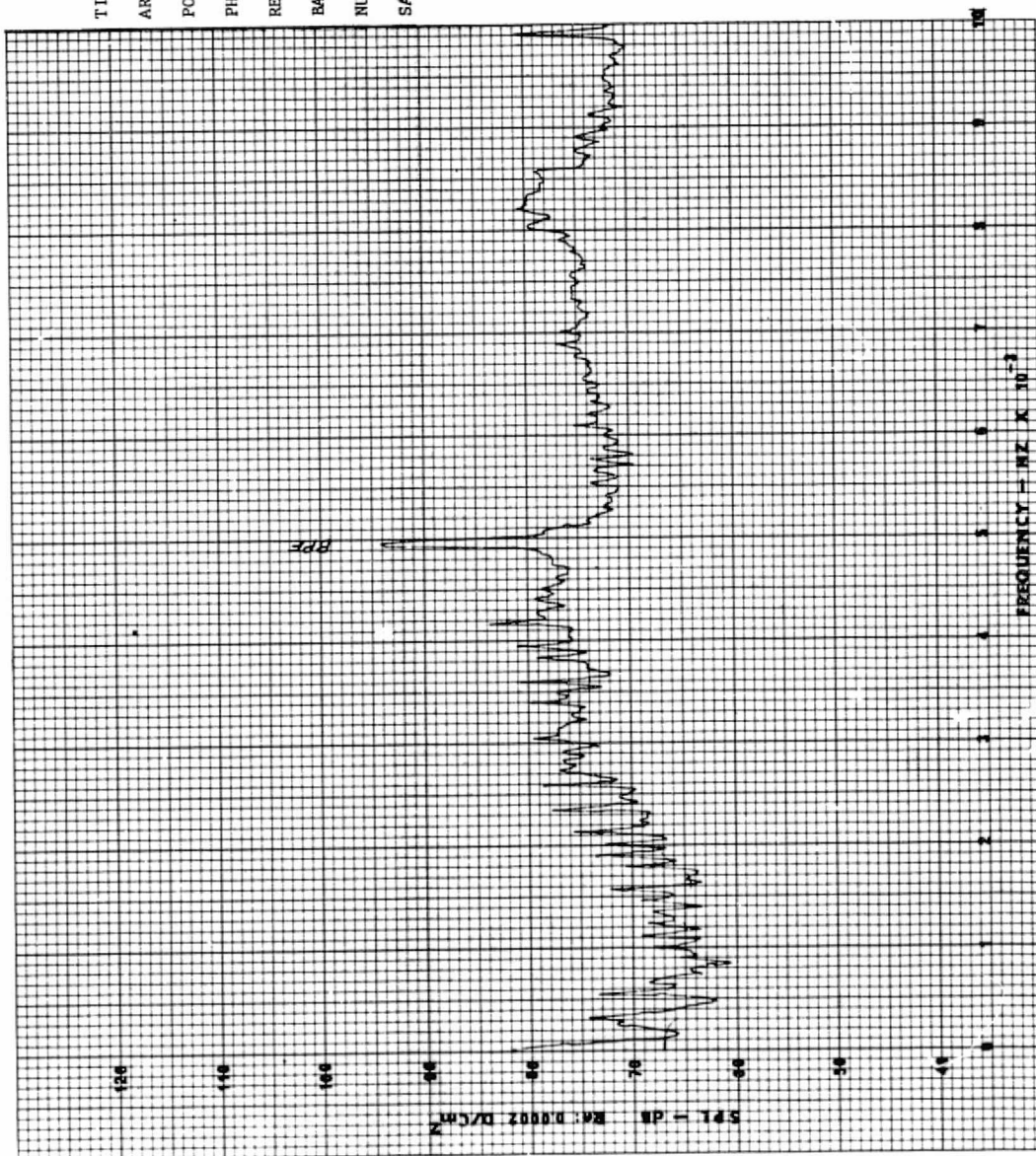
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NUMBER OF SCANS 256

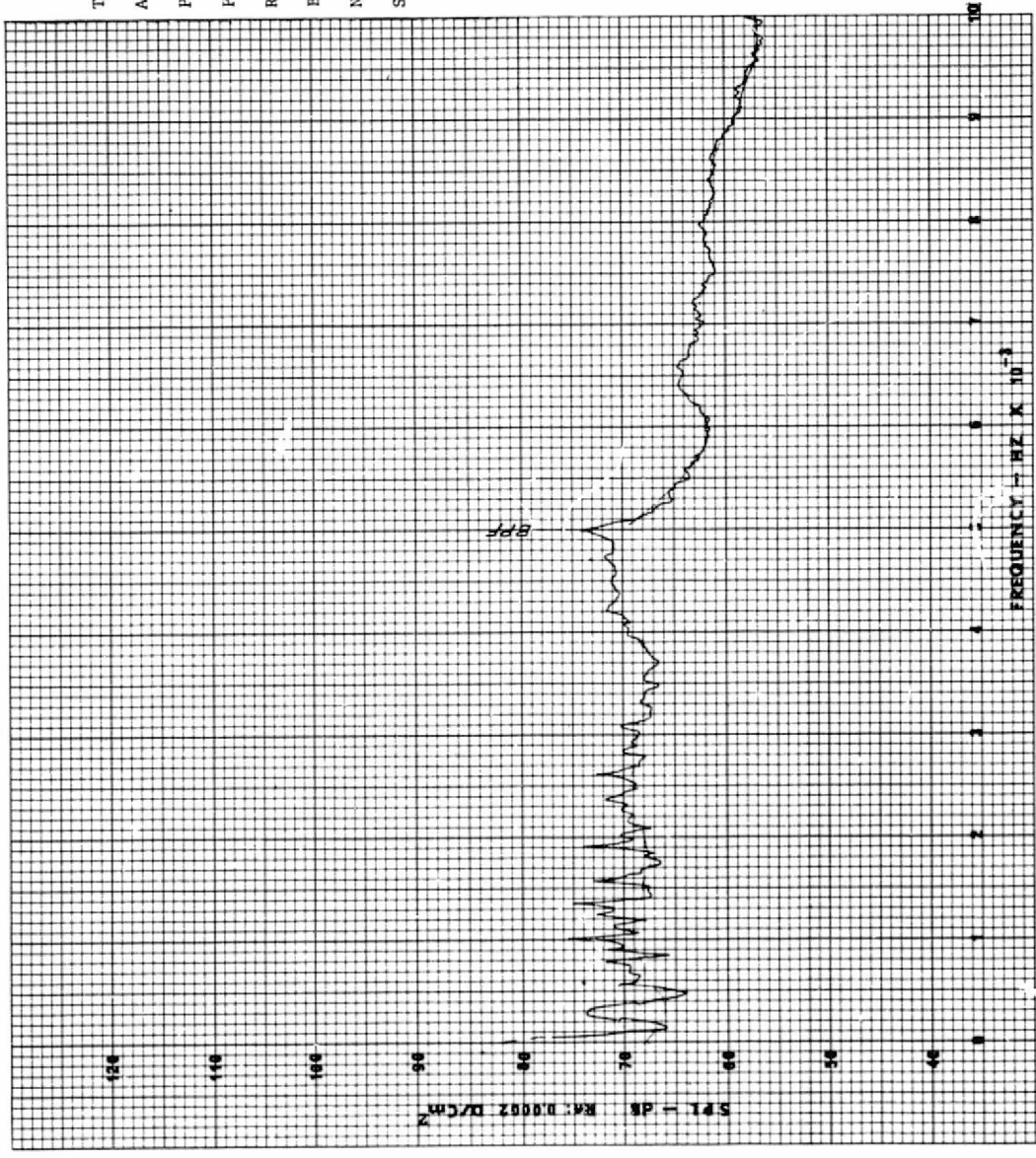
SAMPLE LENGTH 12.8 SEC

TITLE APPROACH BASELINE BELMOUTH  
INLET (REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft)  
POLAR ANGLE 50 DEG  
PHYSICAL SPEED 6725 RPM  
READING NUMBER 646  
BANDWIDTH 20 HZ  
NUMBER OF SCANS 256  
SAMPLE LENGTH 12.8 SEC

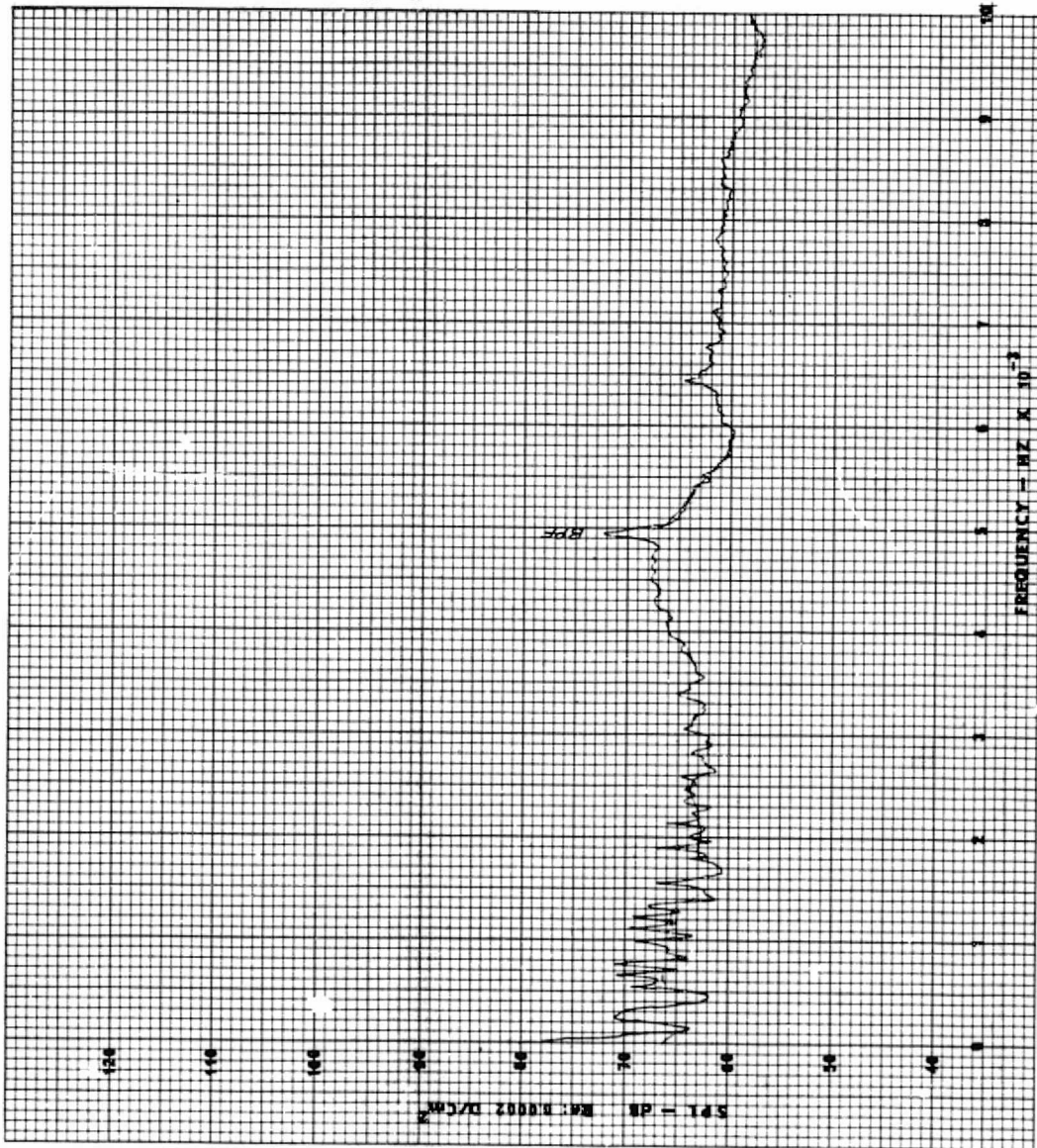


TITLE APPROACH ACCELERATING INLET  
 (REAR DRIVE)  
 ARC DISTANCE 30.5 m (100 ft)  
 POLAR ANGLE 50 DEG  
 PHYSICAL SPEED 6783 RPM  
 READING NUMBER 568  
 BANDWIDTH 20 HZ  
 NUMBER OF SCANS 256  
 SAMPLE LENGTH 12.8 SEC



TITLE APPROACH HYBRID INLET  
(REAR DRIVE)

ARC DISTANCE 30.5 m (100 ft.)  
 POLAR ANGLE 50 DEG  
 PHYSICAL SPEED 6749 RPM  
 READING NUMBER 254  
 BANDWIDTH 20 HZ  
 NUMBER OF SCANS 256  
 SAMPLE LENGTH 12.8 SEC





SECTION VI

FARFIELD NARROW-BAND DATA - FRONT DRIVE

TITLE TAKEOFF HARDWALL APT FAN  
 DUCT (FRONT DRIVE)

ARC DISTANCE 30.5 m (100 ft)

POLAR ANGLE 110 DEG

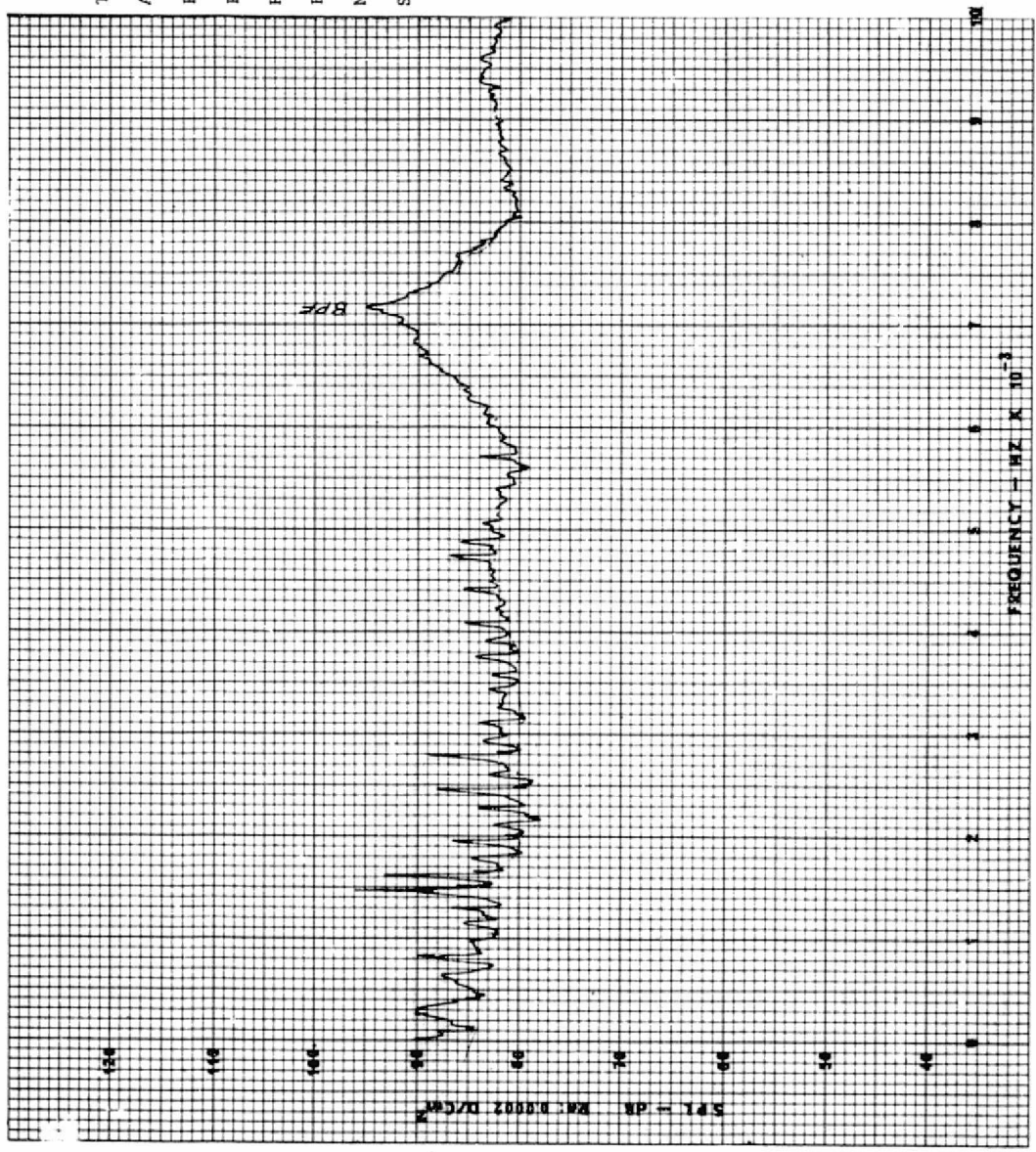
PHYSICAL SPEED 9951 RPM

READING NUMBER 160

BANDWIDTH 20 HZ

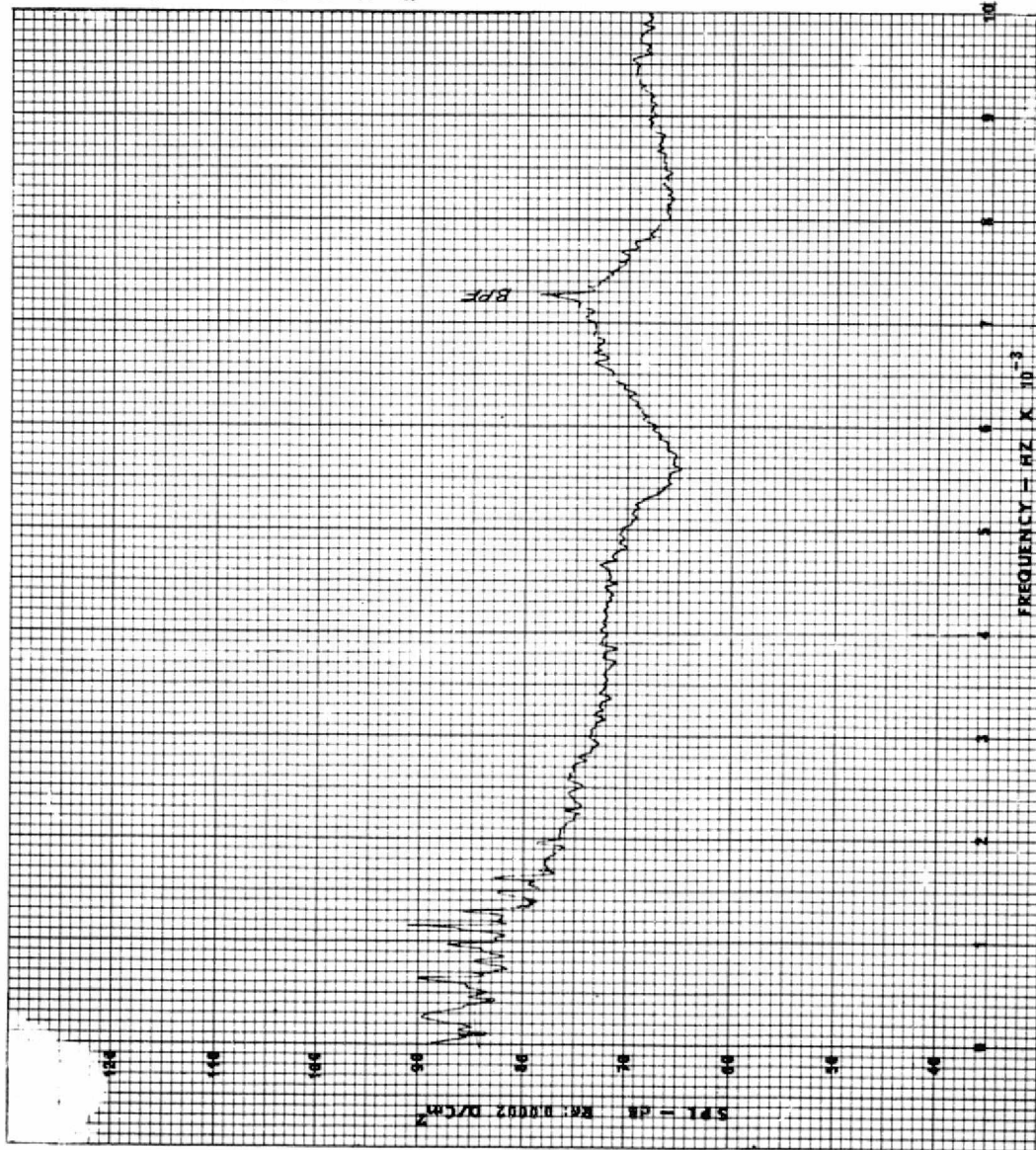
NUMBER OF SCANS 256

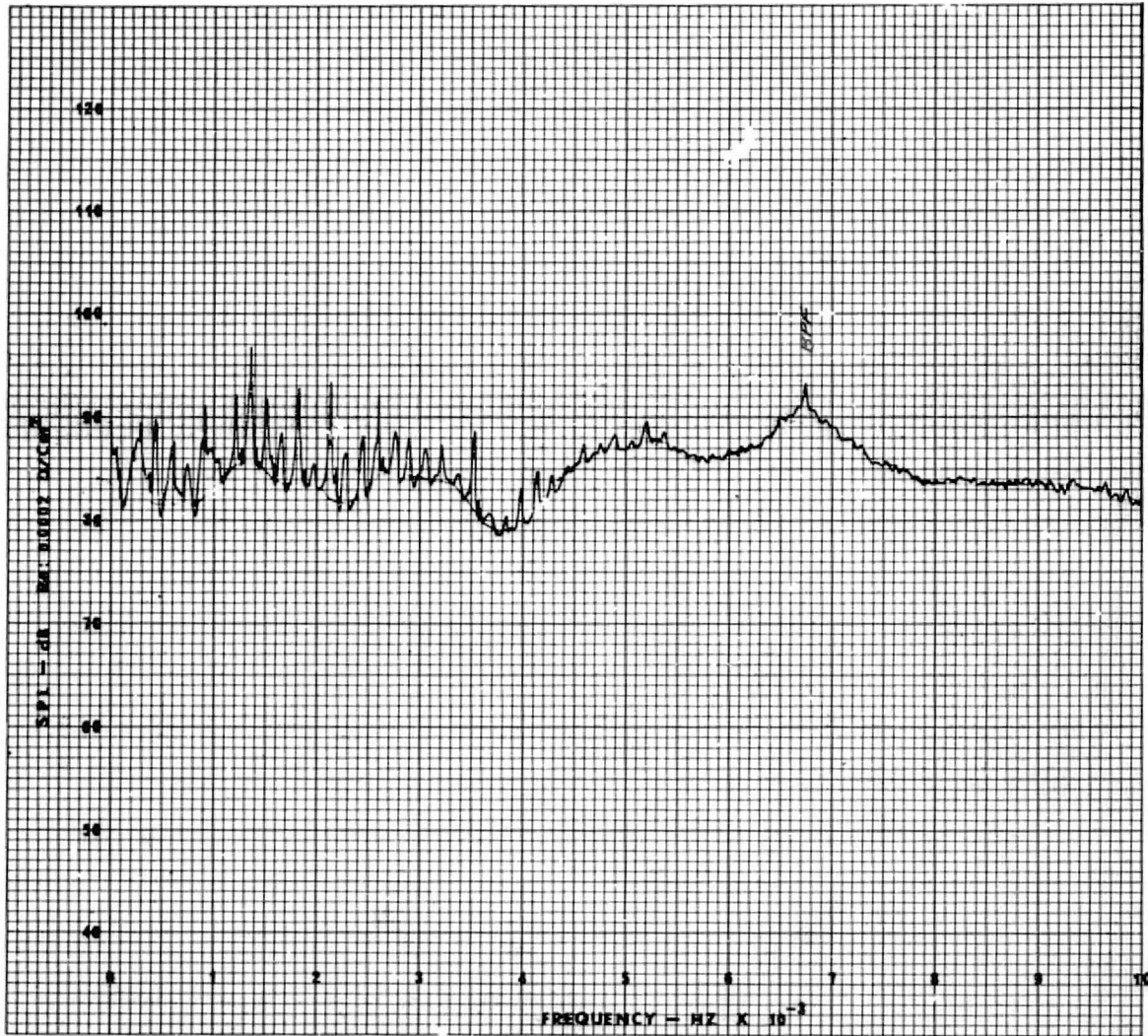
SAMPLE LENGTH 12.8 SEC



TITLE TAKEOFF TREATED W/SPLITTER  
AFT FAN DUCT (FRONT DRIVE)

ARC DISTANCE 30.5 m (100 ft.)  
POLAR ANGLE 110 DEG  
PHYSICAL SPEED 10114 RPM  
READING NUMBER 40  
BANDWIDTH 20 HZ  
NUMBER OF SCANS 256  
SAMPLE LENGTH 12.8 SEC





TITLE CUTBACK HARDWALL AFT FAN  
DUCT (FRONT DRIVE)

ARC DISTANCE 30.5 m (100 ft.)

POLAR ANGLE 120 DEG

PHYSICAL SPEED 9370 RPM

READING NUMBER 133

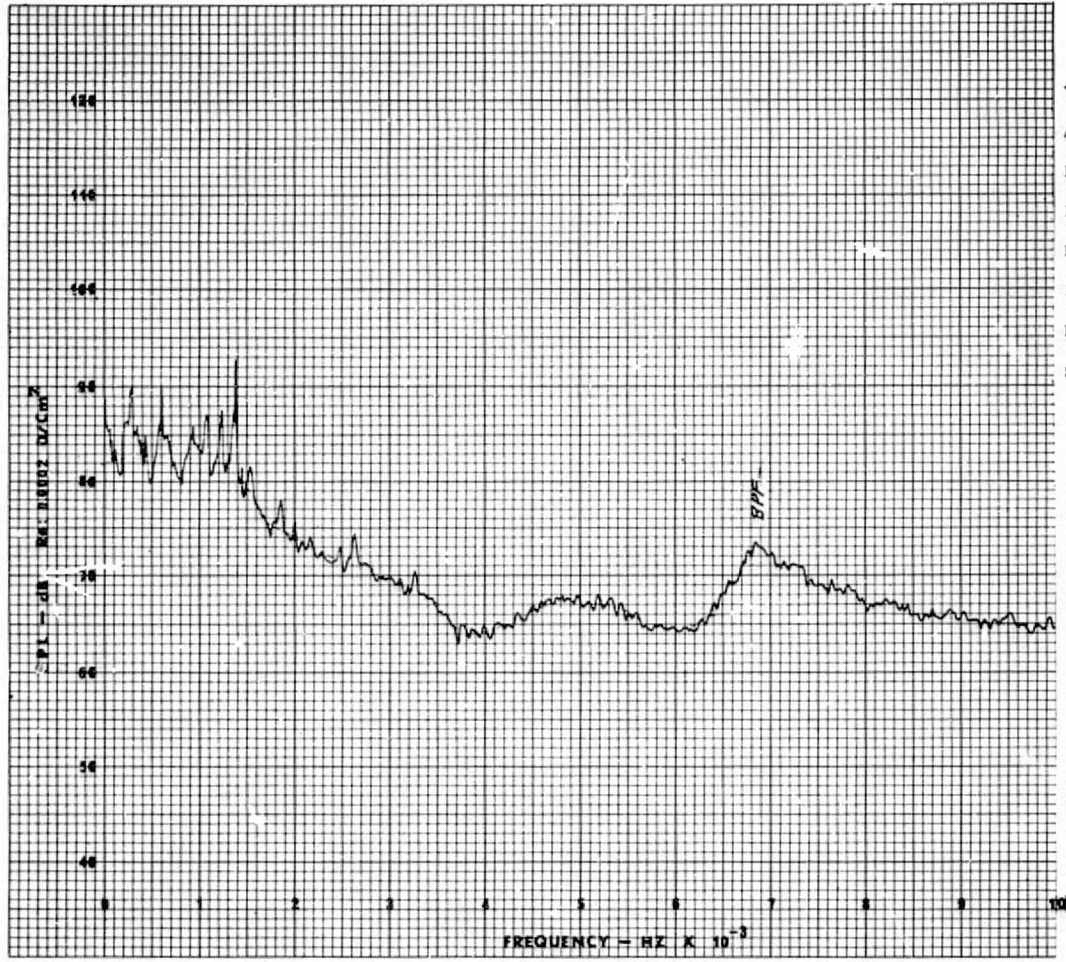
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NUMBER OF SCANS 256

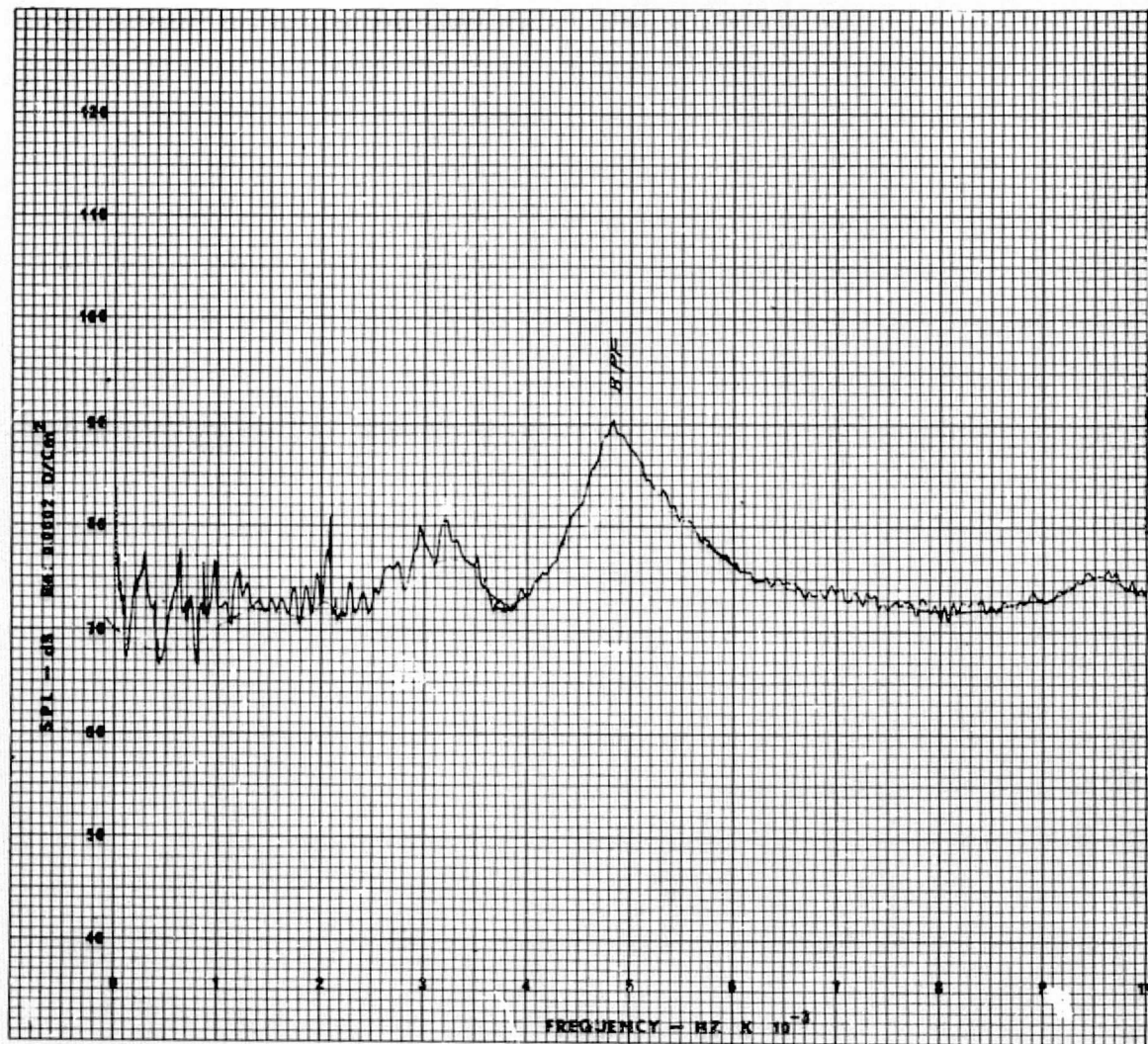
SAMPLE LENGTH 12.8 SEC

REPRODUCTION OF THE  
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TITLE CUTBACK TREATED W/SPLITTER  
AFT FAN DUCT (FRONT DRIVE)  
 ARC DISTANCE 30.5 m (100 ft.)  
 POLAR ANGLE 120 DEG  
 PHYSICAL SPEED 9532 RPM  
 READING NUMBER 109  
 BANDWIDTH 20 HZ  
 NUMBER OF SCANS 256  
 SAMPLE LENGTH 12.8 SEC



TITLE APPROACH HARDWALL AFT FAN  
DUCT (FRONT DRIVE)

ARC DISTANCE 30.5 m (100 ft)

POLAR ANGLE 120 DEG

PHYSICAL SPEED 6740 RPM

READING NUMBER 143

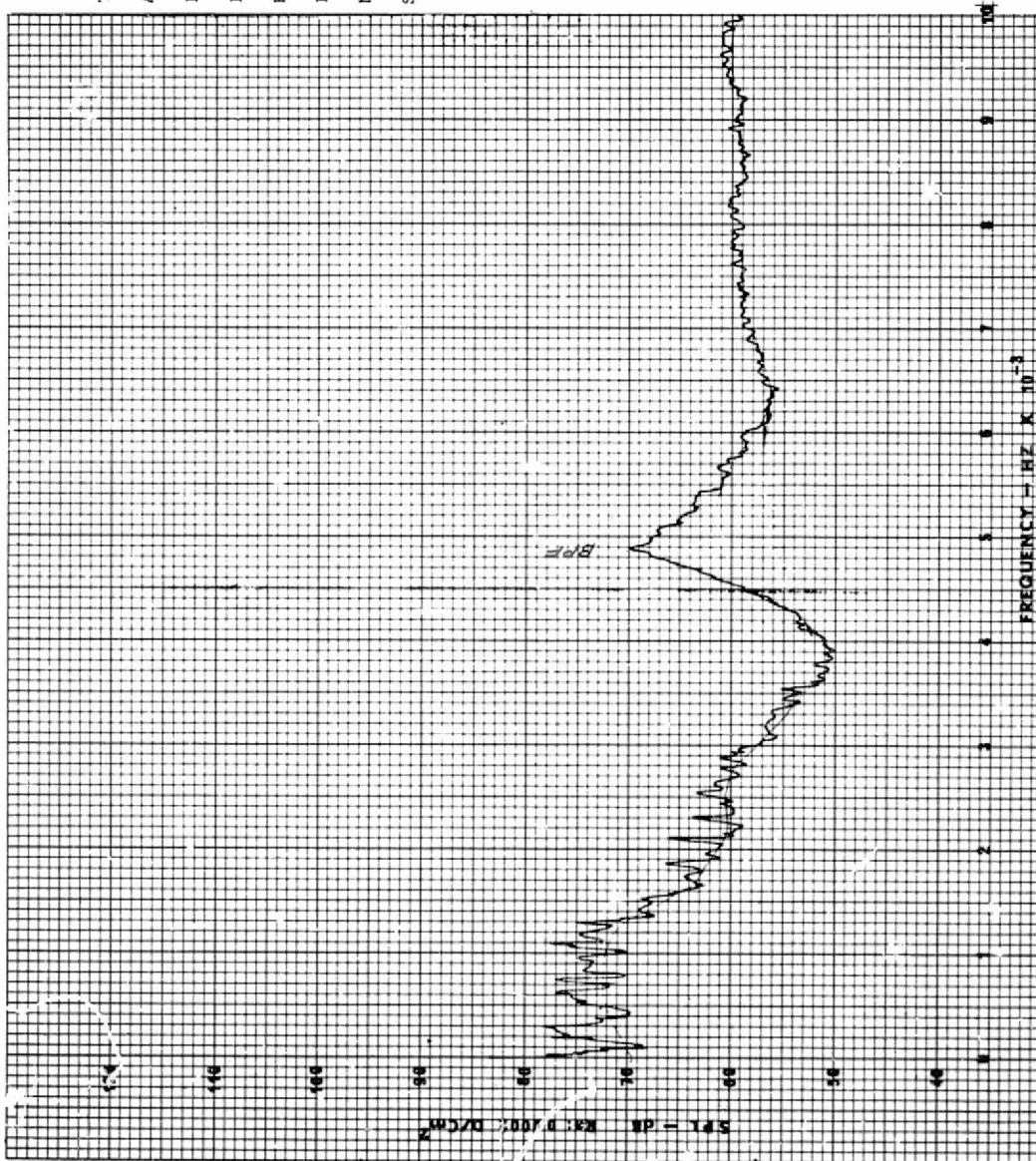
BANDWIDTH 20 HZ

NUMBER OF SCANS 256

SAMPLE LENGTH 12.8 SEC

APPROACH TREATED W/SPLITTER  
AFT FAN DUCT (FRONT DRIVE)

ARC DISTANCE 30.5 m (100 ft)  
POLAR ANGLE 120 DEG  
PHYSICAL SPEED 6815 RPM  
READING NUMBER 76  
BANDWIDTH 20 HZ  
NUMBER OF SCANS 256  
SAMPLE LENGTH 12.8 SEC



APPENDIX A

LIST OF SYMBOLS AND NOMENCLATURE

Because of the extensive presentation of computer printout, this list may deviate somewhat from other volumes in the series. The deviation is necessary to eliminate lower-case letters and other characters not available to the printer. Some standard abbreviations (m for meter, ft for foot, Hg for mercury, etc), used in the typed portion of the text, will deviate from the printout (M, FT., HG) for the same reason. It was not deemed necessary to list these deviations unless the possibility of confusion or ambiguity exists.

Symbol

AMB	Ambient
APP	Approach
ATT	Advanced Transport Technology
BAR	Barometer
BP	Bypass
DEG	Degrees
D.V.	Discharge Valve
FGK	Fan Gross Thrust, Corrected to Standard Day
FREQ	Frequency
GM/M <sup>3</sup>	Gram/meter <sup>3</sup> (Printout Only)
HACT	Absolute Humidity
LOC	Location
M	Core
M <sub>TH</sub>	Average Inlet Throat Mach Number
M <sub>PTH</sub>	Peak Wall Mach Number at the Throat
NFA	Physical Fan Speed (Actual)
NFD	Design Fan Speed
NFK	Fan Speed Corrected to Standard Day
NPHY	Physical Fan Speed
N/√θ	Fan Rotational Speed Corrected to Standard Day
PNdB	Perceived Noise Decibels
PTO	Peebles Test Operation

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$P_T/P_{\text{BARO}}$  Ratio of Strut Total Pressure to Barometer Pressure  
PWL Sound Power Level, Re:  $10^{-13}$  watts  
SPL Sound Pressure Level, Re:  $0.0002 \text{ d/cm}^2$   
STD Standard Day  
TAMB Ambient (Dry-Bulb) Temperature  
TWET Hygrometer Wet-Bulb Temperature  
 $P_{12}$  Fan-Face Total Pressure  
 $PW_{13}$  Mass-Weighted Fan Discharge Total Pressure  
 $V_T$  Fan Tip Speed  
 $W/\theta/\delta$  Total Corrected Fan-Face Flow  
 $W/\theta/\delta_{\text{TH}}$  Weight Flow at the Inlet Throat, Corrected to Standard Day

## REFERENCES

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5. Compagnon, M.A.; "Propulsion System Studies for an Advanced High Subsonic, Long-Range Jet Commercial Transport Aircraft, NASA CR-121016, November, 1972.
6. "Studies for Determining the Optimum Propulsion System Characteristics for Use in a Long-Range Transport Aircraft - Comprehensive Data Report," NASA Contract NAS3-15544, June 1972.