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NASA

CR-159575 Vol. I



ACOUSTIC AND AERODYNAMIC PERFORMANCE INVESTIGATION OF INVERTED VELOCITY PROFILE COANNULAR PLUG NOZZLES

Comprehensive Data Report

VOLUME I

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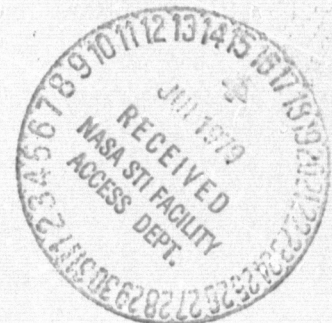
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1.0 INTRODUCTION

The Comprehensive Data Report includes the basic test description and test results which are analyzed and documented in the companion Final Reports, NASA CR-3149 and CR-2990. Volume I contains a description of the acoustic configurations, test facilities, data reduction techniques, test conditions, and detailed test results from the hot, static acoustic tests at the General Electric Anechoic Chamber. Volume II presents acoustic data comparisons in graphic form. Volume III contains the detailed aerodynamic test results plus the "Concept Screening and Model Design Report."

2.0 DEFINITION OF ACOUSTIC CONFIGURATIONS

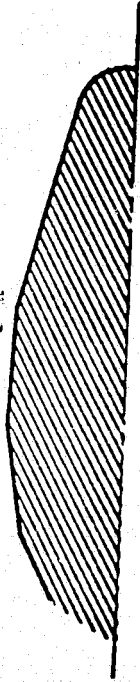
Seven acoustic coannular nozzle configurations were selected for this test program. Sketches of each configuration are shown in Figures 1 and 2. In Table 1 selected geometric parameters are tabulated for each configuration. Besides these seven coannular nozzle configurations, a conical nozzle was also tested to serve as a baseline with which to evaluate the acoustic effectiveness of the coannular nozzle relative to the standard conical nozzle.

CONFIGURATION No. 1

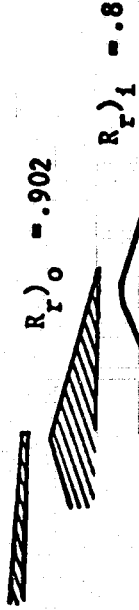
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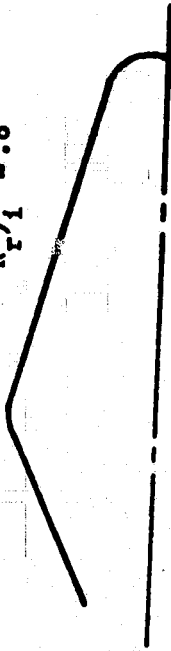
$R_{r1} = .673$



CONFIGURATION No. 2



$R_{r1} = .8$



CONFIGURATION No. 3



$R_{r1} = .902$



CONFIGURATION No. 4



$R_{r1} = .8$

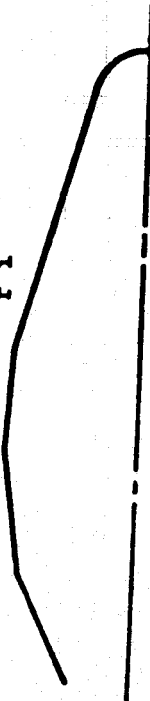
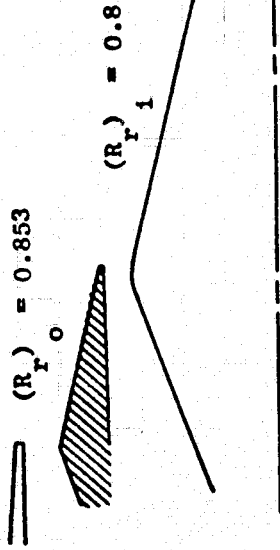
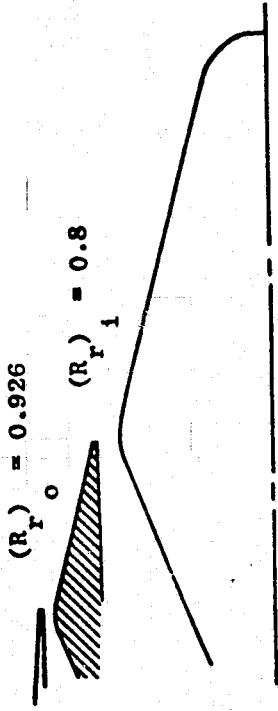


Figure 1. Acoustic Nozzle Configurations 1, 2, 3, and 4.

• Configuration No. 5



• Configuration No. 6



CONFIGURATION No. 7

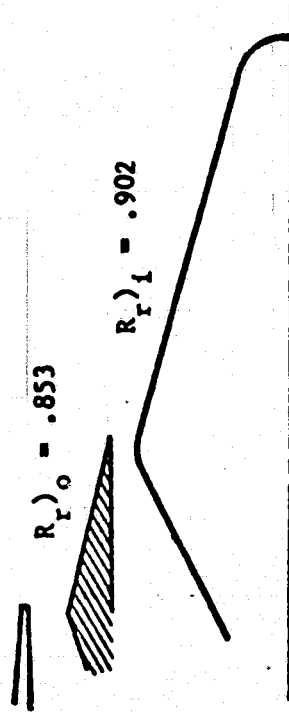
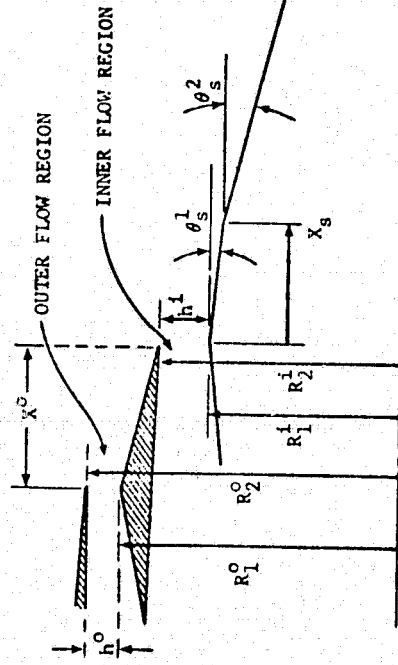


Figure 2. Acoustic Nozzle Configurations 5, 6, and 7.

Table 1. Summary of Configuration Geometric Parameters for Acoustic Models.

CONFIGURATION	$h^0, \text{in.}$		R^0		R^1		R^2		$R^i, \text{in.}^2$		$A^0, \text{in.}^2$		$A^i, \text{in.}^2$		A^0/A^1		h^1/Deq^0		X^0/h^0		X_s		TYPE	
	h^0	h^1	R^1	R^2	R^1	R^2	R^1	R^2	R^1	R^2	A^1	A^2	A^1	A^2	A^1	A^2	h^1	Deq^0	X^0	h^0	X_s	h^0	Deq^0	Acoustic
1	.426	1.036	3.918	4.344	2.134	3.168	3.168	902	.673	11.057	17.248	.641	.28	3.089	7.25	2.011	2.75	15	X	X			X	X
2	.426	.634	3.918	4.344	2.534	3.168	902	.800	11.057	11.350	.974	.17	3.089	7.25	-	15.0	15	X	X			X	X	
3	.426	.311	3.918	4.344	2.858	3.168	902	.902	11.057	5.878	1.881	.08	3.089	7.25	-	15.0	15	X	X			X	X	
4	.426	.634	3.918	4.344	2.534	3.168	902	.800	11.057	11.350	.974	.17	3.089	7.25	2.015	2.79	15	X	X			X	X	
5	.675	.634	3.918	4.593	2.534	3.168	853	.800	18.049	11.350	1.590	.13	3.063	4.54	-	15.0	15	X	X			X	X	
6	.313	.634	3.918	4.231	2.534	3.168	926	.800	8.013	11.350	.706	.20	3.100	9.90	-	15.0	15	X	X			X	X	
7	.675	.311	3.918	4.593	2.858	3.168	853	.902	18.049	5.878	3.070	.06	3.063	4.54	-	15.0	15	X	X			X	X	



SCHEMATIC OF NOZZLE CONFIGURATIONS AND DEFINITION OF PARAMETERS

where R_r = Radius Ratio (R_1/R_2)
 h = Step Height, inches
 A = Area, in²
 D_{eq} = Equivalent Circular Diameter Based on A , in.
 θ_s = Ramp Angle of Inner Plug

Superscripts

- o = Outer Flow Region
- i = Inner Flow Region

3.0 ACOUSTIC TEST FACILITY AND DATA REDUCTION TECHNIQUES

3.1 THE ACOUSTIC ARENA

3.1.1 Facility Description

All acoustic testing was performed in the General Electric jet noise anechoic chamber located in Evendale, Ohio, which was built to support research in jet engine aircraft noise. The facility can accommodate model exhaust nozzle configurations ranging in size from a 2 mm to a 159 mm diameter model and has the capability to run both single and dual flow models. For the subject test program the dual flow capability was primarily employed.

In Figure 3 a cross section of the facility is shown. This cylindrical building is 21.95 meters high and 13.1 meters in diameter. The test chamber itself is divided into several major areas as shown on Figure 3. The lower chamber is used as an air plenum, allowing for the entrained air flow (induced during operation) to pass in through the inlet silencers and up through the false floor (as shown on Figure 4) into the anechoic chamber. The entrained air becomes uniformly distributed within the plenum, thus eliminating any significant velocity effects throughout the chamber during operation. The design of the lower chamber was determined through scale model testing, with a design velocity requirement of 2.13 m/sec. Surfaces in the lower chamber are acoustically treated to prevent noises generated in the chamber during operation, from passing down through the false floor and being reflected back into the chamber.

The auxiliary room, located on the west side of the chamber, is used to house the in-line acoustic muffler, primary and secondary stream burners, fuel control systems, and lower access rails for the laser velocimeter (LV) and ellipsoidal mirror (EM) cart. The auxiliary room is pneumatically sealed from the test chamber to prevent unsuppressed piping and burner noises from entering the test chamber.

The test chamber itself is shown on Figure 5, along with a typical single-flow nozzle installation. Surfaces within the chamber are covered with anechoic wedges or wrapped with fiberglass to maintain their anechoic properties. Access to the test chamber area is achieved through a doorway opening onto the roof on the west wall of the chamber. Access to the nozzle is provided by means of expanded aluminum flooring and railings, shown on Figure 5, which are removed from the chamber during acoustic testing as shown on Figure 6.

During operation, the jet plume is discharged through the "T-shaped" exhaust silencer mounted on the roof of the chamber. This silencer arrangement effectively reduces the emitted noise to levels in compliance with community noise standards.

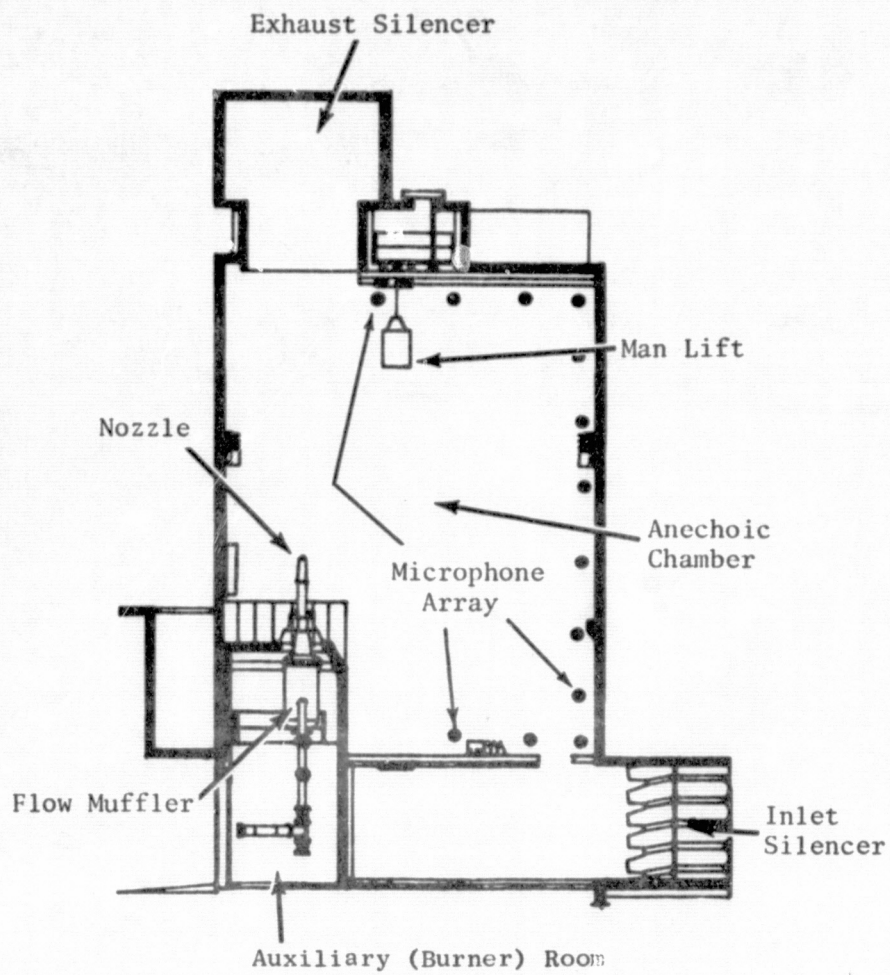


Figure 3. General Electric Anechoic Test Chamber Schematic.

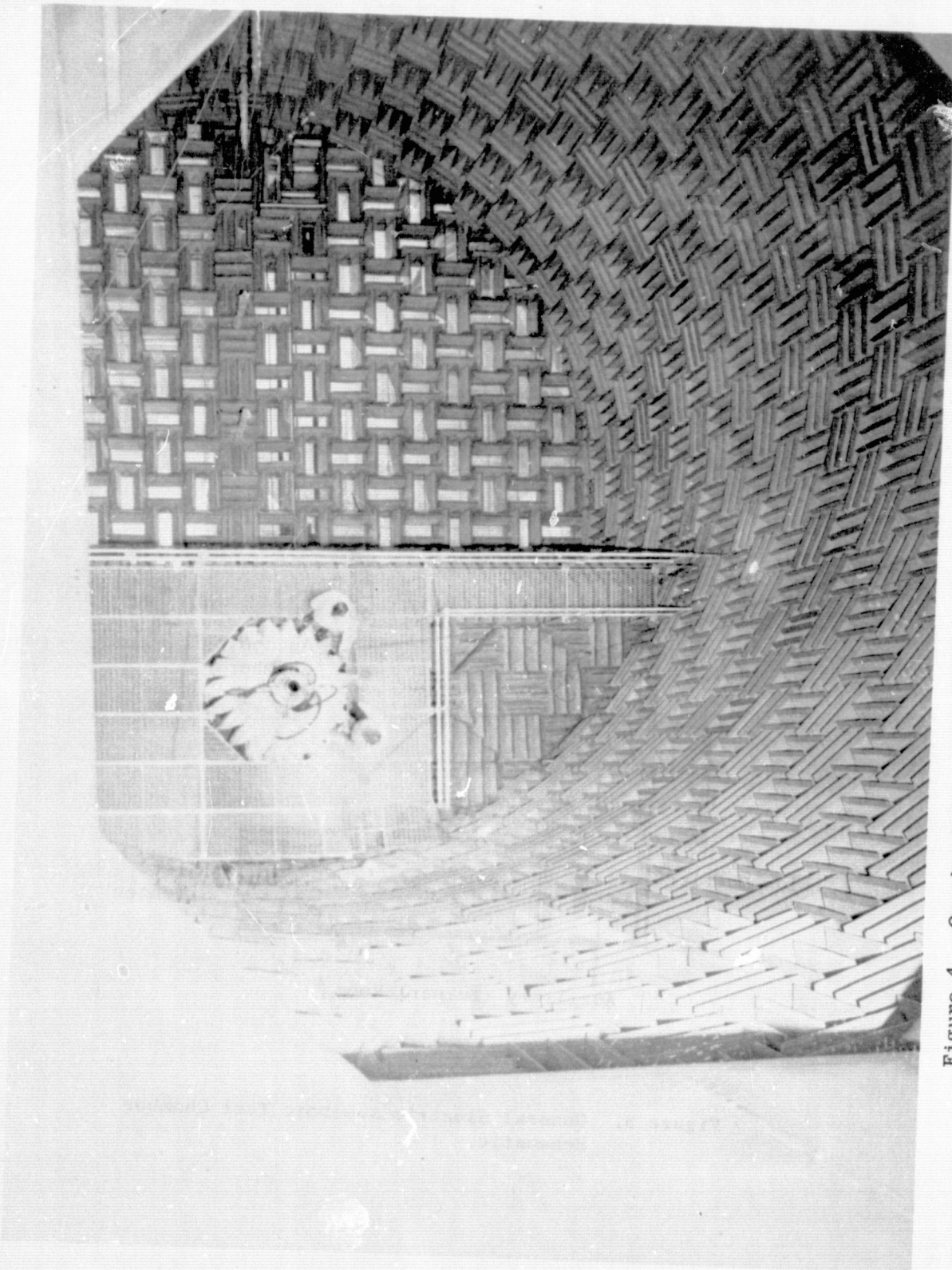


Figure 4. Overhead View of the General Electric Anechoic Jet Noise Test Facility Interior.

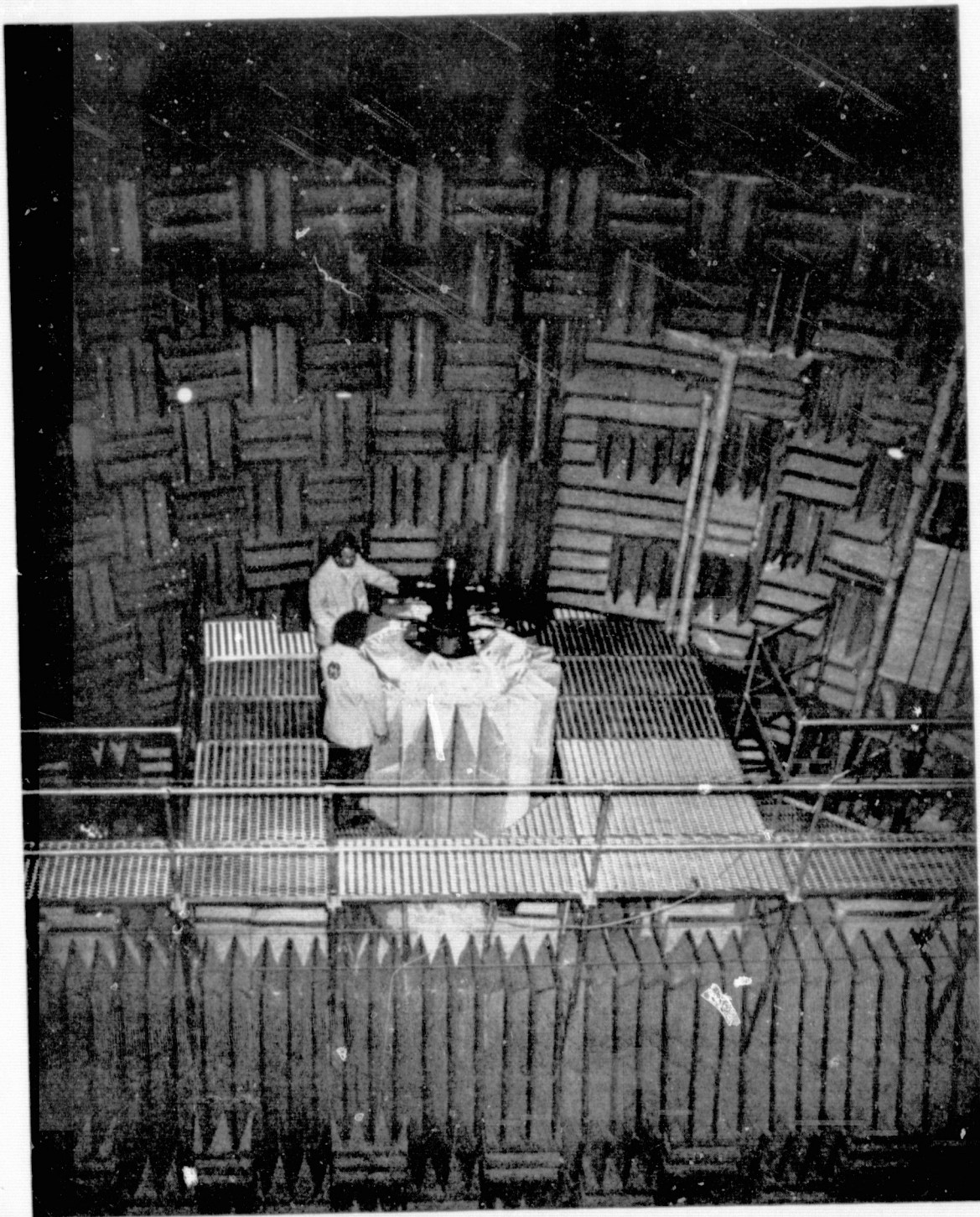


Figure 5. View of Test Arrangement in the General Electric Anechoic Jet Noise Test Facility.

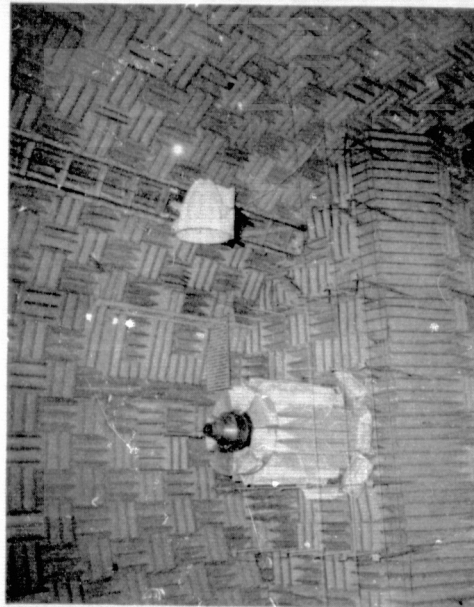
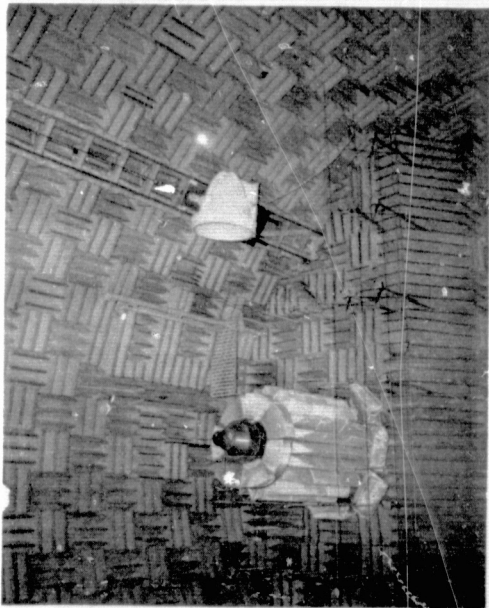
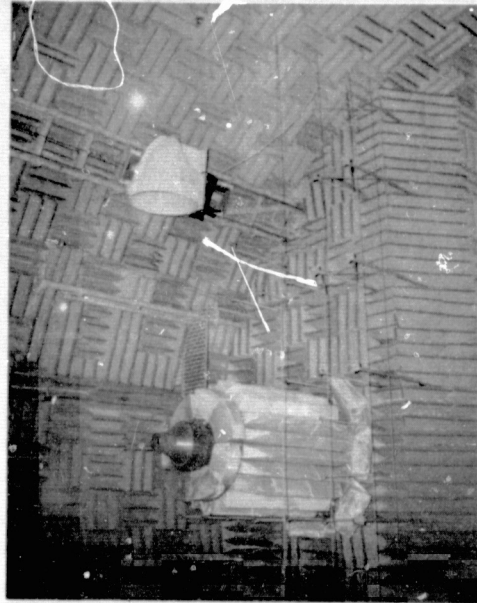
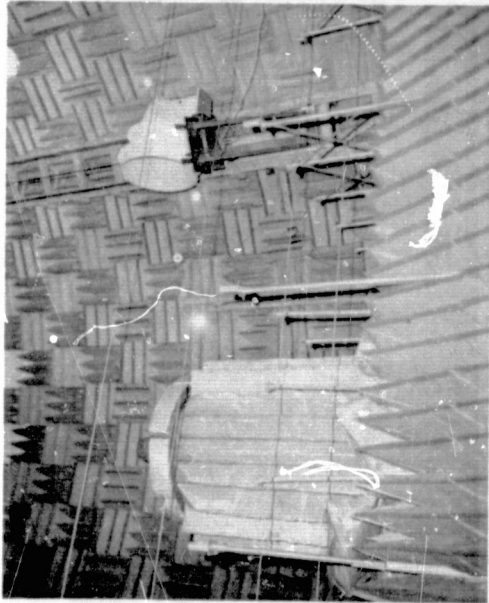


Figure 6. Internal View of the Test Arrangement During Operation.

Air is supplied from a central air system through a single pipe which penetrates the south wall of the cell (see Figure 7). Just inside the wall the air supply splits into two systems, the fan and core. The fan air is controlled by a single V-ball valve. However, the core air can be regulated by two V-ball valves, either in combination, with one acting as a bypass for fine tuning control, or with blank-off plates installed. Either valve can be used independently. Rupture discs are located between the flow measurement section and the riser sections of the pipes. They constitute a safety feature which prevents over-pressurization of the facility. The fan and core combustors are located in their respective risers which feed into the acoustically treated plenum. The top side of the plenum feeds into a coannular dual-flow riser which terminates in the test arena. Test nozzles are attached at this point.

3.1.2 Anechoic Wedge Specifications

The wedges used in the test chamber were fabricated from Owens Fiberglass "Intermediate Service Board" composed of fiberglass fibers bonded together in a semirigid form with a binder rated for service at temperatures up to 455° C with a material density of 48.05 kg/m³. The wedges are grouped three to a module as shown on Figure 8 with each module comprised of a 61-cm x 61-cm section. These modules are mounted on steel tracks fastened to the concrete cell walls, with a 7.62-cm air space between the module base and the cell wall. The tapered surfaces of the wedges are covered with a wire mesh hardware cloth, and the wedge tips are covered with a strip of fine fiberglass cloth to prevent feathering.

In regions of the facility where the wedges may be subject to flow impingement and turbulence, the wedges are covered with a glass fiber cloth material to prevent degradation.

This wedge geometry and material were selected for meeting the facility requirements of a cutoff sound below a frequency of 220 Hz and absorption coefficient of better than 0.99 at frequencies above the cutoff frequency.

3.1.3 Microphone Locations

The stationary microphones used for far-field measurements within the chamber are located on the east wall, ceiling and false floor in a vertical plane which includes the test nozzle. The microphones are positioned from 40° through 160° (re: jet exhaust angle = 180°) in 10° increments. They are mounted on standoff brackets such that each microphone is 1.52 m from the plane of the wedge tips, with the brackets wrapped with 5.08 cm of fiberglass material to prevent reflections from influencing the data, as shown in Figure 9, along with the man lift used for access to the microphone stations. During acoustic certification testing a microphone was traversed to within 0.43 m of the wedge tips and inverse square law characteristics were maintained, as shown in Figure 10 over the range of 160 Hz to 6300 Hz. The microphones themselves are held in a swivel mount and are oriented for normal

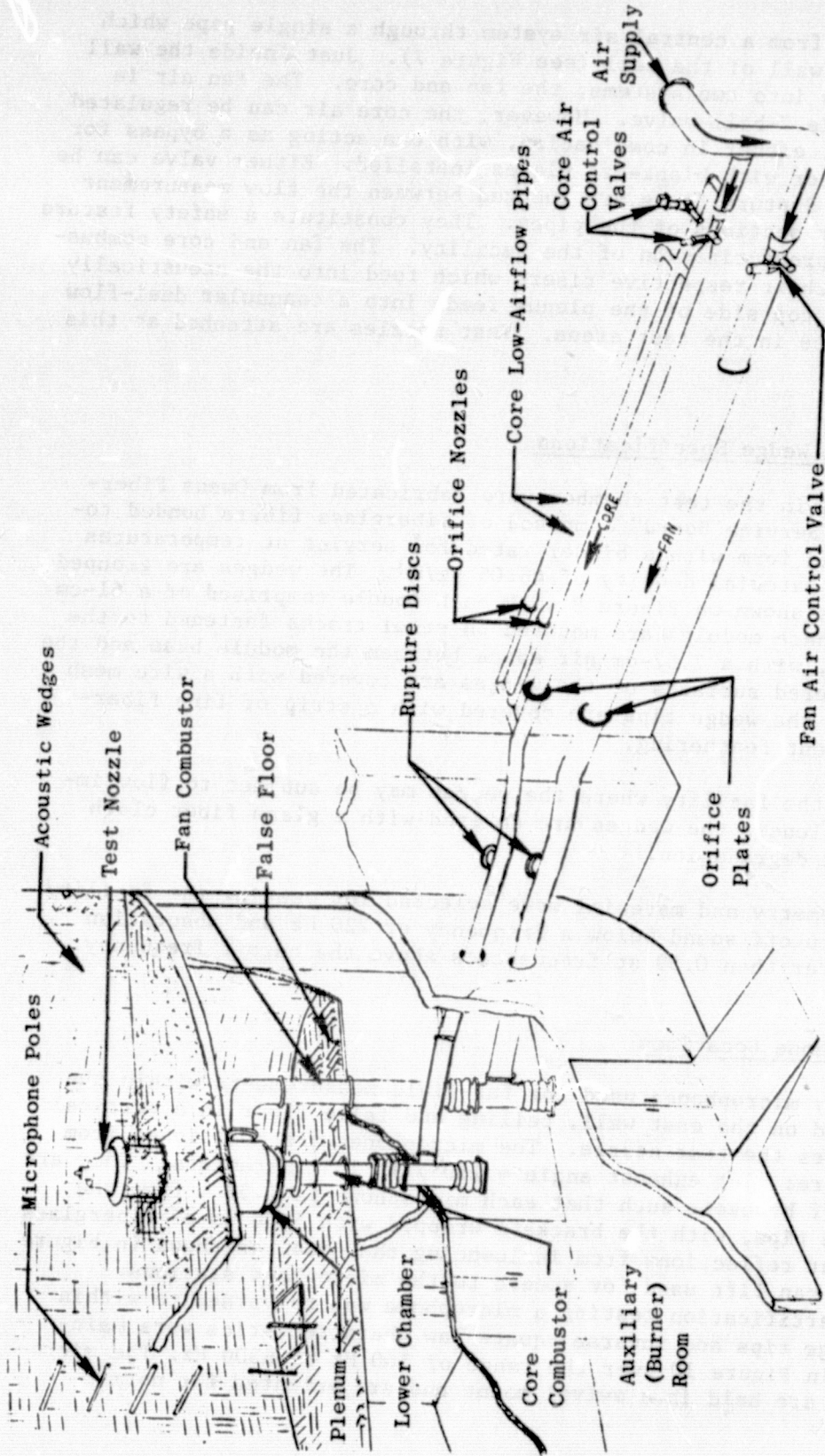


Figure 7. Cell 41 Anechoic Chamber Sketch.

Note: Wedges in Region of High Temperature, High Velocity Gas Flow Have Filler Covered With Glass Fiber Cloth, Prior to Hardware Cloth Cover.

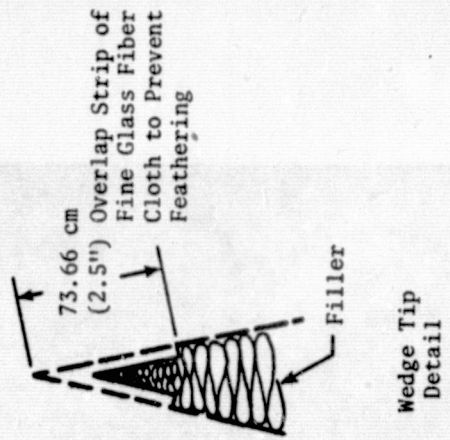
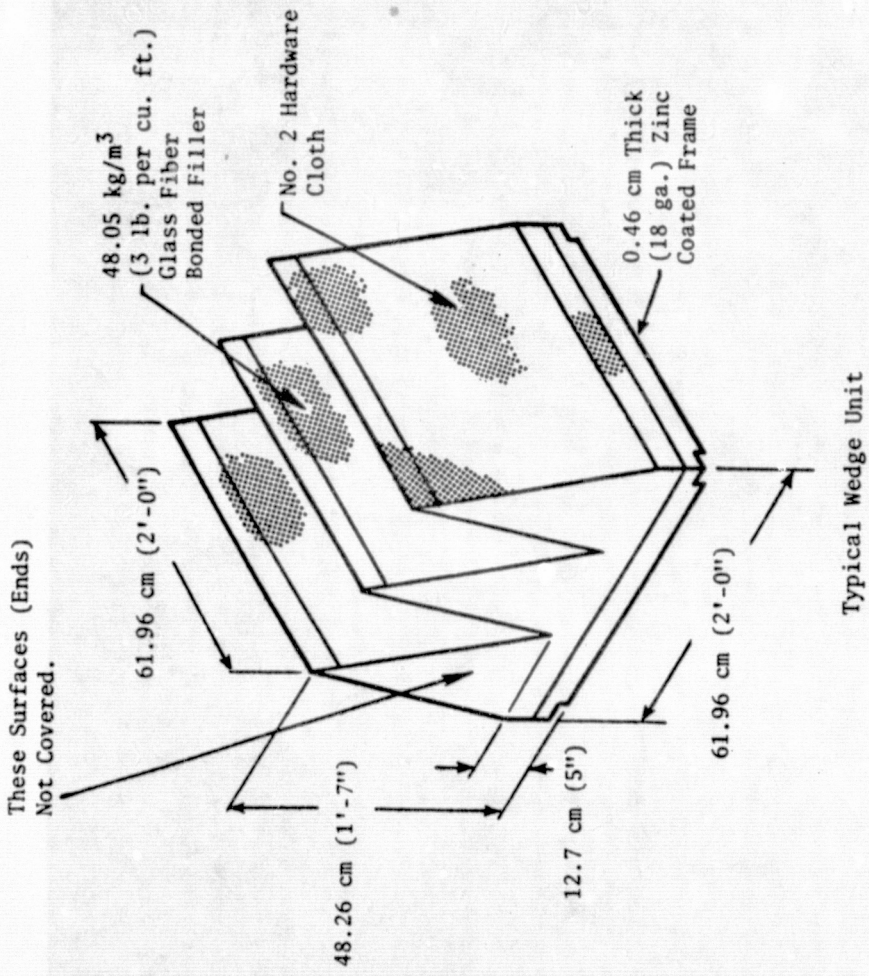


Figure 8. General Electric Anechoic Facility Acoustic Wedge Details.



Figure 9. Internal View of the General Electric Anechoic Jet Noise Test Facility
Demonstrating Man Lift Operation.

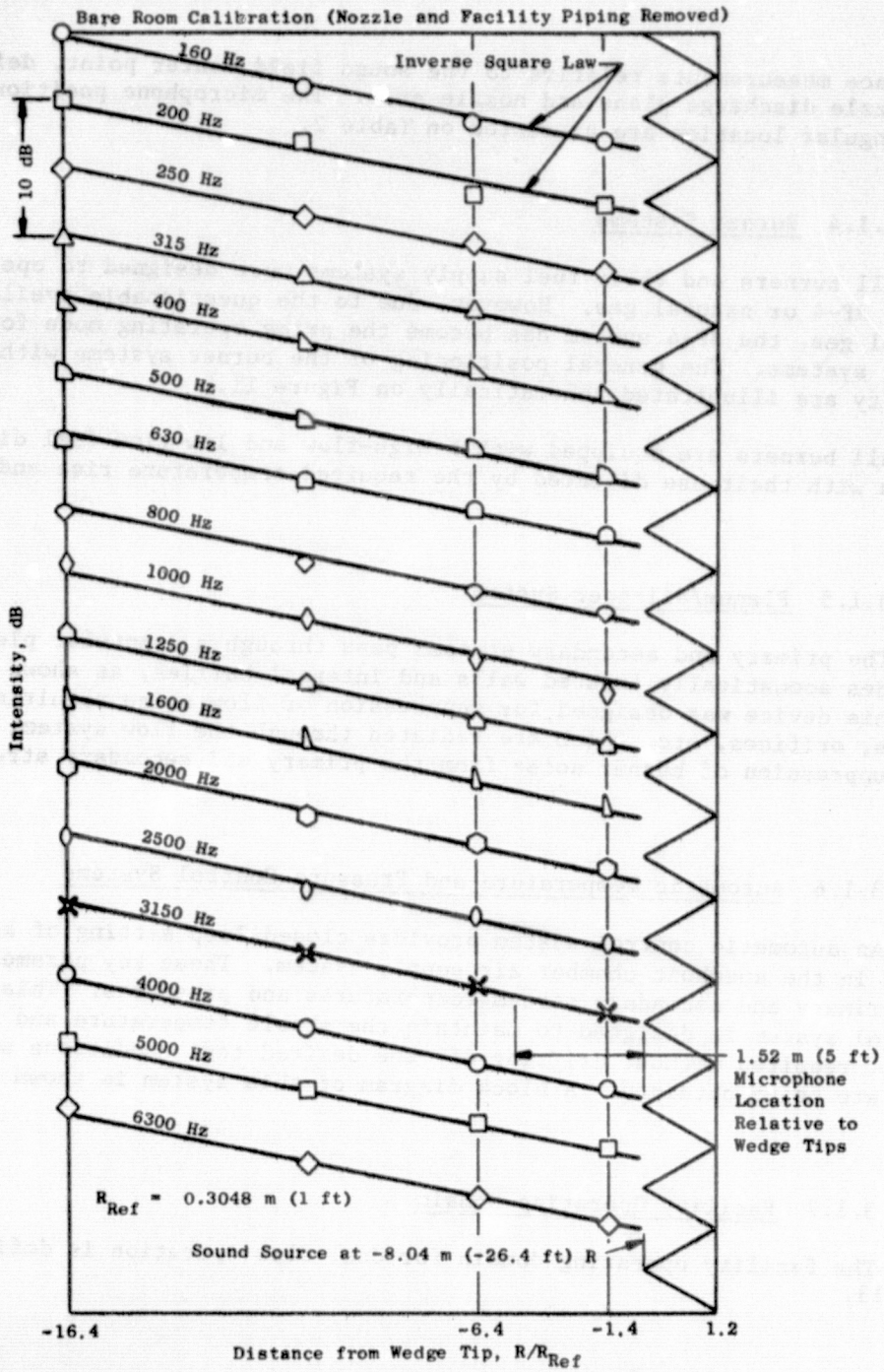


Figure 10. Acoustic Characteristics of the Anechoic Wedges.

incidence measurements relative to the sound field center point, defined by the nozzle discharge plane and nozzle axis. The microphone positions for each angular location are presented on Table 2.

3.1.4 Burner Systems

All burners and their fuel supply systems were designed to operate on either JP-4 or natural gas. However, due to the questionable availability of natural gas, the JP-4 system has become the prime operating mode for all burner systems. The general positioning of the burner systems within the facility are illustrated schematically on Figure 11.

All burners are equipped with a high-flow and low-flow fuel dispersion system with their use dictated by the required temperature rise and airflow rates.

3.1.5 Plenum/Silencer System

The primary and secondary streams pass through a coannular plenum which includes acoustically treated walls and internal baffles, as shown on Figure 11. This device was designed for suppression of flow noise resulting from valves, orifices, etc. which are radiated through the flow system, as well as for suppression of burner noise from the primary and secondary stream burners.

3.1.6 Automatic Temperature and Pressure Control Systems

An automatic control system provides closed-loop setting of key parameters in the anechoic chamber air supply system. These key parameters are the primary and secondary stream temperatures and pressures. This automatic control system is designed to maintain the stable temperature and pressure output required without drifting off the desired test conditions while test data are being obtained. A block diagram of this system is shown on Figure 12.

3.1.7 Facility Operating Domain

The facility operating domain for dual flow operation is defined in Figure 13.

3.1.8 Low Flow System

One portion of the test matrix included test points requiring low flow rates in the inner stream (as low as 2% of the flow rate in the outer stream) to simulate engine bleed flows. In order to accurately set these low inner

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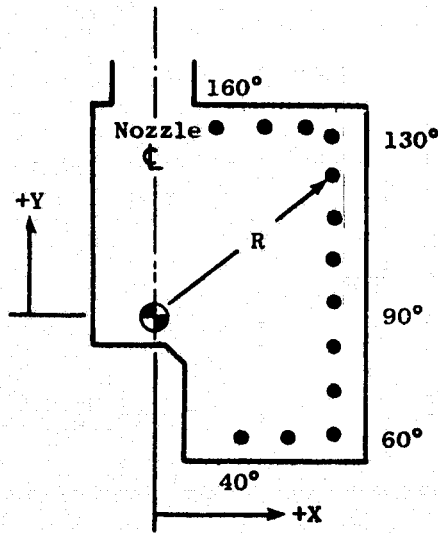
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One portion of the test matrix included test points requiring low flow rates in the inner stream (as low as 2% of the flow rate in the outer stream) to simulate engine bleed flows. In order to accurately set these low inner

Table 2. Far-Field Microphone Positions.

Angle (Degrees)	Radial Distance		X		Y	
	m	(ft)	m	(ft)	m	(ft)
40	6.91	(22.66)	4.44	(14.57)	-5.29	(-17.36)
50	8.23	(27.00)	6.3	(20.68)	-5.29	(-17.36)
60	9.50	(31.18)	8.23	(27.00)	-4.75	(-15.59)
70	8.76	(28.73)	8.23	(27.00)	-3.00	(- 9.83)
80	8.36	(27.42)	8.23	(27.00)	-1.45	(- 4.76)
90	8.23	(27.00)	8.23	(27.00)	0	(0)
100	8.36	(27.42)	8.23	(27.00)	1.45	(4.76)
110	8.76	(28.73)	8.23	(27.00)	3.00	(9.83)
120	9.5	(31.18)	8.23	(27.00)	4.75	(15.59)
130	10.74	(35.25)	8.23	(27.00)	6.91	(22.66)
140	10.09	(33.12)	6.49	(21.29)	7.73	(25.37)
150	8.93	(29.29)	4.46	(14.64)	7.73	(25.37)
160	8.23	(27.00)	2.81	(9.23)	7.73	(25.37)



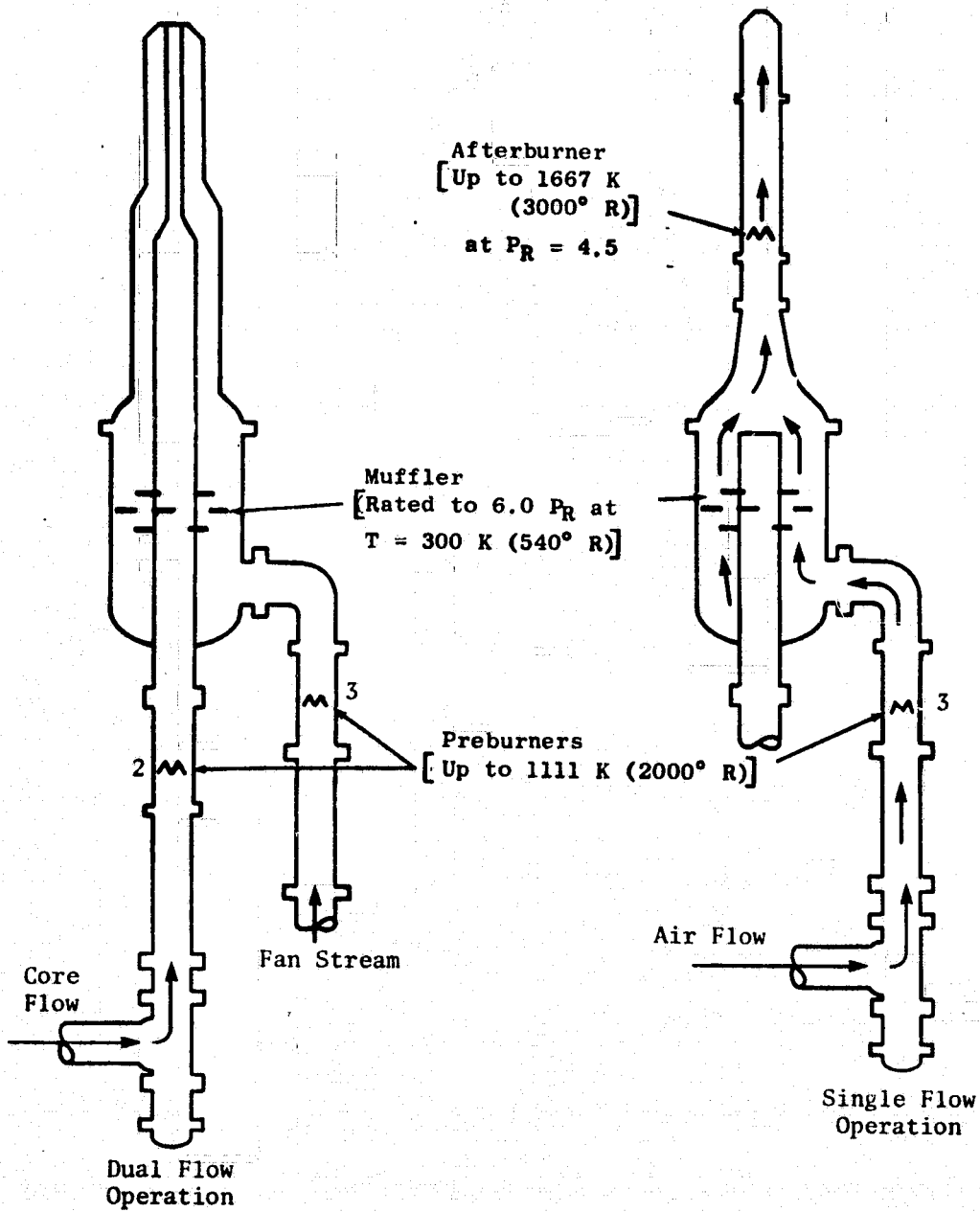


Figure 11. General Electric Anechoic Facility Flow System.

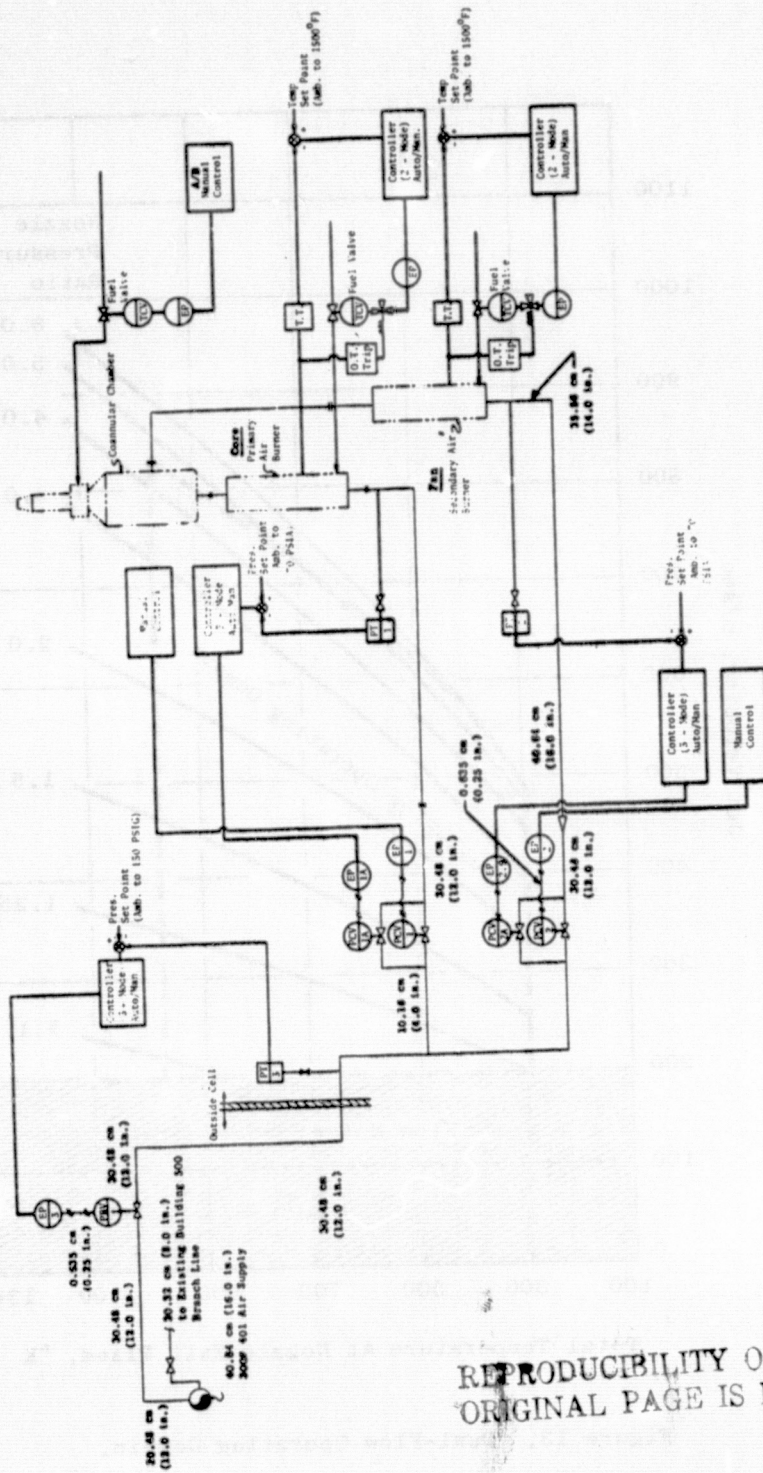


Figure 12. General Electric Anechoic Facility Control System Schematic.

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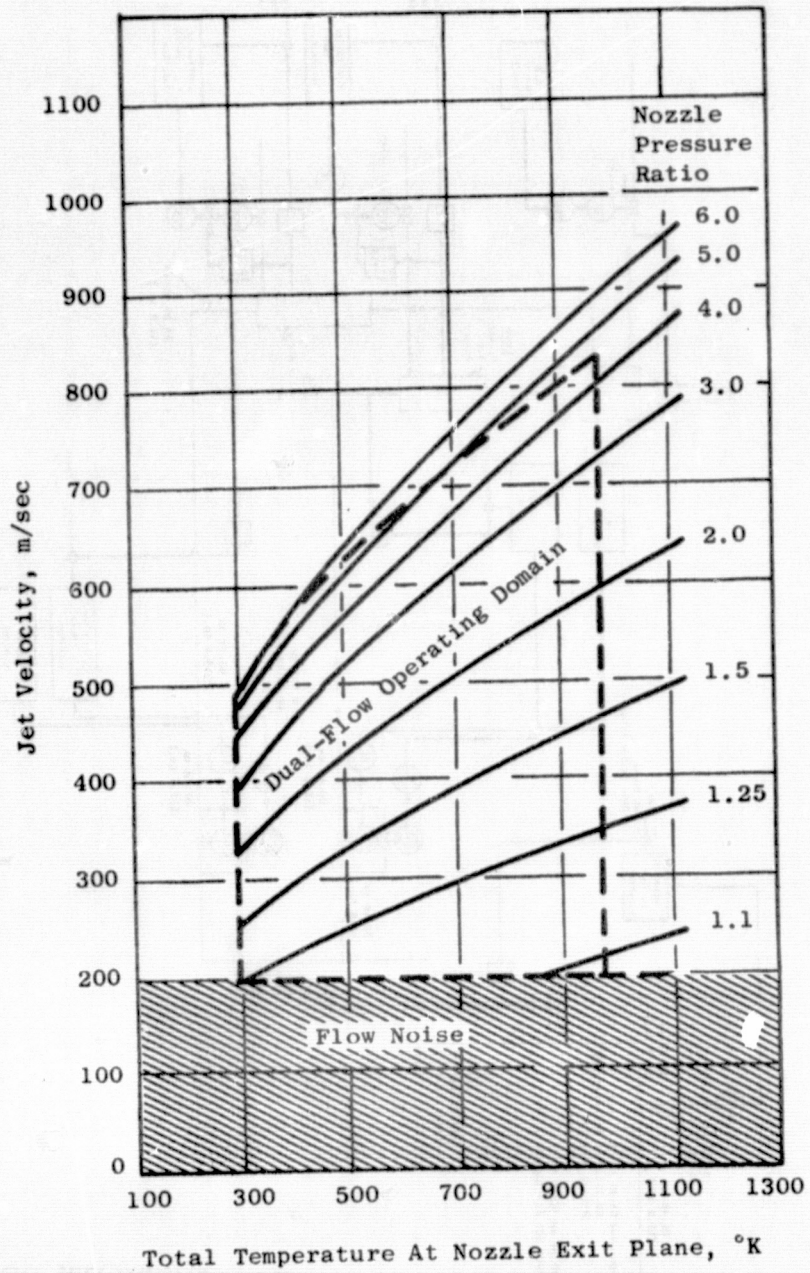


Figure 13. Dual-Flow Operating Domain.

flow rates, a separate flow metering device was utilized. A schematic of the basic features of the device is shown in Figure 14. The main air supply for the inner stream was blanked off and the flow was diverted into two smaller pipes. Each of these pipes has a flow nozzle and an on-off valve. These flow nozzles accurately meter the flow when the flow is choked. Knowing the upstream total pressure and the throat area of the flow nozzles, the weight flow was calculated as follows.

For pipe flow the weight flow may be expressed as:

$$W = C_D \left[\frac{P_T A g_c}{\sqrt{T_T R}} \right] \frac{M \gamma^{1/2}}{\left[1 + \frac{\gamma-1}{2} M^2 \right]^{2(\gamma-1)}}$$

where

W = weight flow (lbm/sec)

C_D = nozzle discharge coefficient

γ = 1.4 for cold flow

R = 1716 ft²/sec² - ° R

g_c = 32.174 lbm-ft//lbf-sec²

A = area (in²)

P_T = Total pressure (lbf/in²)

M = Mach number

γ = ratio of specific heats, = 1.4 for cold flow

$$W = 0.532 \left[\frac{P_T A}{\sqrt{T_T}} \right] [C_D]$$

The nozzle discharge coefficient is 0.985 ± 1% for the flow nozzles used. By operating one or both pipe flows and by using different size flow nozzles, required core flows were obtained.

3.2 ACOUSTIC DATA SYSTEMS

3.2.1 Acoustic Data Acquisition System

A schematic of the microphone data acquisition system used to obtain acoustic data during testing in the chamber is shown on Figure 15. This system has been optimized for obtaining the acoustic data up through the 80 kHz 1/3-octave center frequency, the design operating range of the facility.

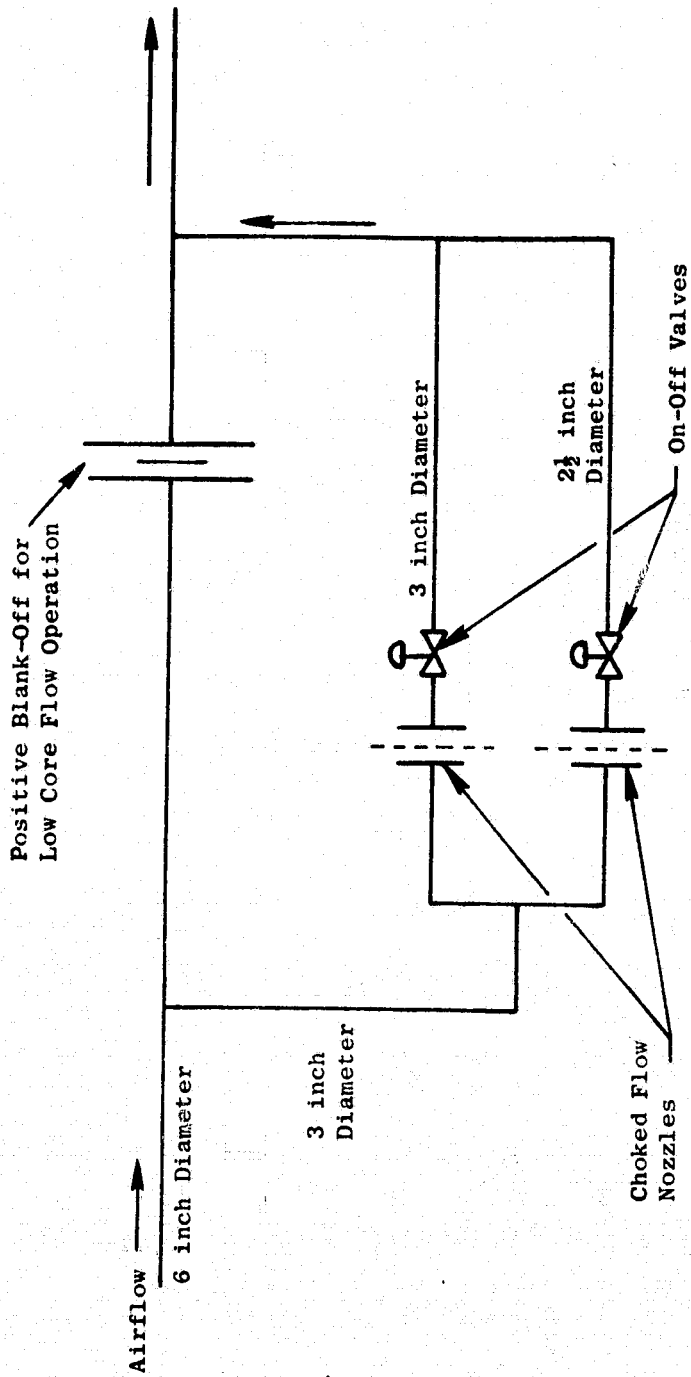


Figure 14. Schematic of Low Flow System for Inner Stream.

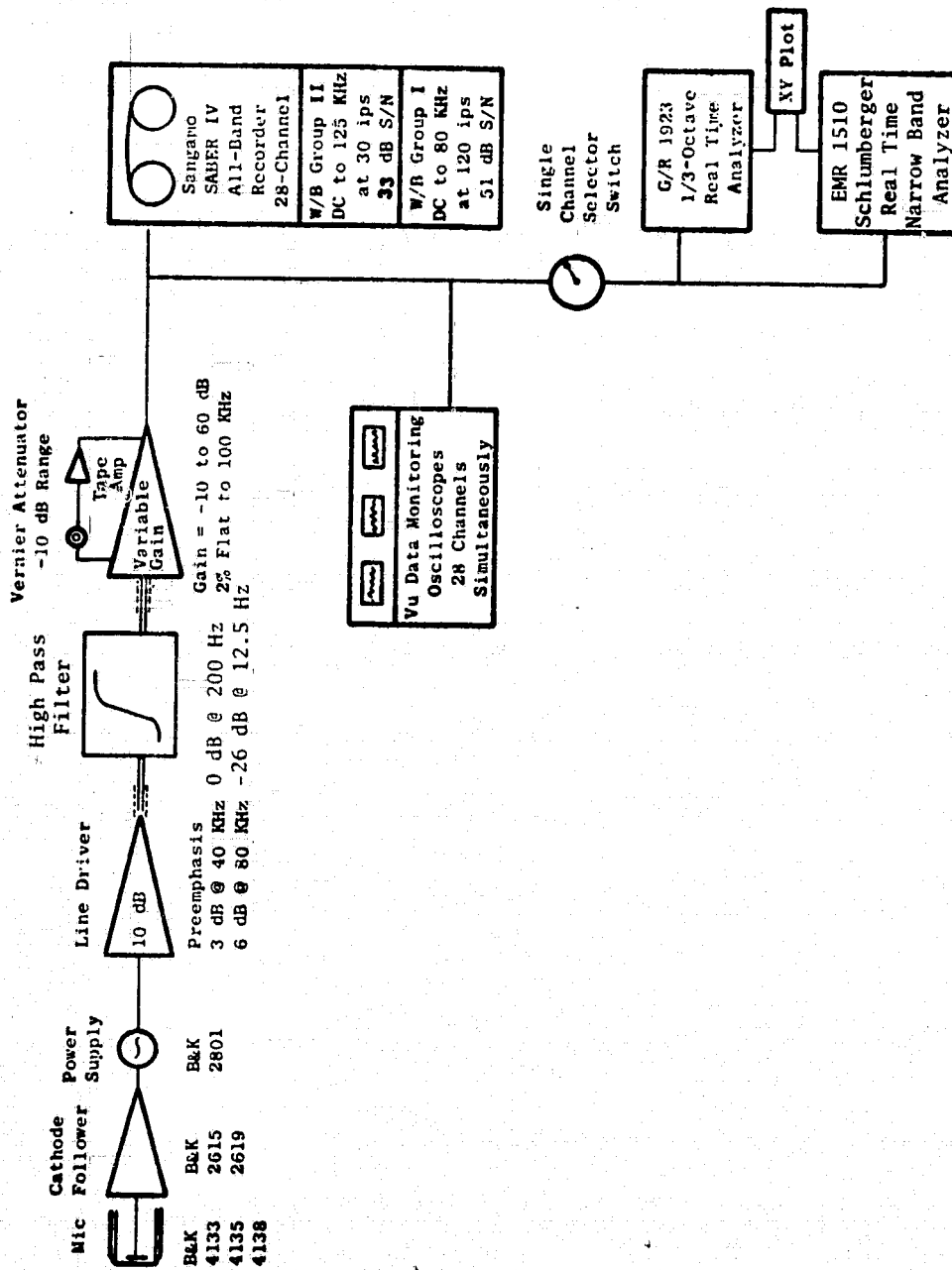


Figure 15. General Electric Facility Acoustic Data Acquisition System.

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The microphone type used to obtain 80 kHz data is the B&K 4135 0.64 cm condenser microphone for far-field measurements. All testing is conducted with microphone grid caps removed to obtain the best frequency response.

The cathode followers used in the chamber are transistorized B&K 2619's for optimum frequency response and lower inherent system noise characteristics relative to the 2615 cathode follower. During the original system check-out, it was observed that these preamplifiers were sensitive to case vibrations transmitted through the mounting arrangement. B&K representatives recommended modifying the transistor by adding a 51-ohm 1/4-watt carbon resistor, in series with the signal output lead, to obtain improved signal stability.

All systems utilize the B&K 2801 power supply operated in the direct mode, avoiding the sensitivity loss associated with the optional 50-ohm and 200-ohm transformer outputs.

The output of the power supply is connected to a line driver adding 10 dB of amplification to the signal as well as adding "preemphasis" to the high frequency portion of the spectrum. These amplifiers were designed by General Electric (AEG Electronic Instrumentation Group) and built by Random Electronics of Cincinnati. The net effect of this amplifier is a 10 dB gain at all frequencies, plus an additional 3 dB at 40 kHz and 6 dB at 80 kHz due to "preemphasis", increasing the ability to measure low amplitude high frequency data.

During system check-out, it was found that low frequency noise levels attributable to operation of adjacent engine test cells were being detected by the microphones within the test chamber. While the frequencies (less than 20 Hz) were below the range of interest, the amplitude was limiting the amount of amplification that could be used when recording the microphone signal, resulting in noise floor problems at higher frequencies. In order to remove this low frequency noise, high-pass filters with attenuations of approximately 26 dB at 12.5 Hz decreasing to 0 dB at 200 Hz, were installed in the system.

The tape recorder amplifiers were designed by General Electric and built by Random Electronics. They have a variable gain from -10 dB to +60 dB in 10 dB steps and a gain trim capability for normalizing incoming signals. The prime system used for recording acoustic data is a Sangamo/Sabre IV, 28-track FM recorder. The system is setup for Wideband Group I (intermediate band double extended) at 120 ips tape speed. While this high tape speed is unattractive, it does provide the improved dynamic range necessary for obtaining the high frequency/low amplitude portion of the acoustic signal. The tape recorder is set up for $\pm 40\%$ carrier deviation with a recording level of 8 V peak-peak. During recording, the signal is displayed on a calibrated master oscilloscope, and signal gain is adjusted to maximum without exceeding the 8 V peak-peak level.

Individual monitor scopes are used for observing signal characteristics during operation. On-line data monitoring is available via a Schlumberger EMR 1510 Analyzer or a General Radio 1921 1/3-Octave Analyzer with their outputs on display scopes or hard copy via an x-y plotter.

High-pass filters were incorporated in the acoustic data acquisition system to enhance high frequency data for microphones from 110° - 160° previously lost in the tape recorder electronic noise floor. The microphone signal below the 20 kHz 1/3-octave band was filtered out, and the gain for the remaining high frequency noise was increased to boost the signal to noise ratio. For microphones from 110° - 160° both the filtered and unfiltered signal was recorded on tape. For data below 20 kHz the unfiltered signal was used to calculate the sound pressure levels while for high frequencies the filtered signal was used. The entire jet noise spectra at a given angle was then obtained by merging these two spectra. Figure 16 illustrates how the high frequency spectra was improved using this technique.

3.2.2 Acoustic Data Reduction System

During testing, on-line monitoring of the microphone signals is provided by means of wave form presentation via an oscilloscope. In addition, on-line data analysis may be performed in 1/3-octave bands using a GR 1921 Spectrum Analyzer or by narrowband analysis using a Schlumberger EMR 1510 Spectrum Analyzer, with the results of either type of analysis displayed on an x-y plotter.

Off-line reduction of the recorded data is performed using the Automated 1/3-Octave Reduction System, shown schematically on Figure 17. The recorded data are played back on a CEC 3700 B, 28-track system, with electronics capable of reproducing IRIG Wideband Groups I and II and Intermediate band data.

In the automatic operating mode, control of the system is provided by means of the GEPAC-30 computer and operator-provided information. The data to be sampled are located by means of a time code reader, indexing from the time code signal recorded on the data tape. This tape shuttling is continued for each data channel, with sampling performed over the same time increment, until all channels of a particular reading have been processed. The system then advances to the next data point, based on the operator-supplied time reference, and repeats the shuttling process.

All 1/3-octave analyses are performed using a General Radio 1921 1/3-Octave Analyzer. A normal integration time of 16 seconds is used to provide adequate sampling of the low frequency portion of the data signal. The frequency range of processing is optional, with lower and upper limits of 12.5 Hz and 125 kHz, respectively, based on the filter set capability of the analyzer; however, data are normally acquired to 80 kHz because of acquisition system limitations. The analyzer has a rated accuracy of ± 0.5 dB with a 0.25 dB resolution capability in each band.

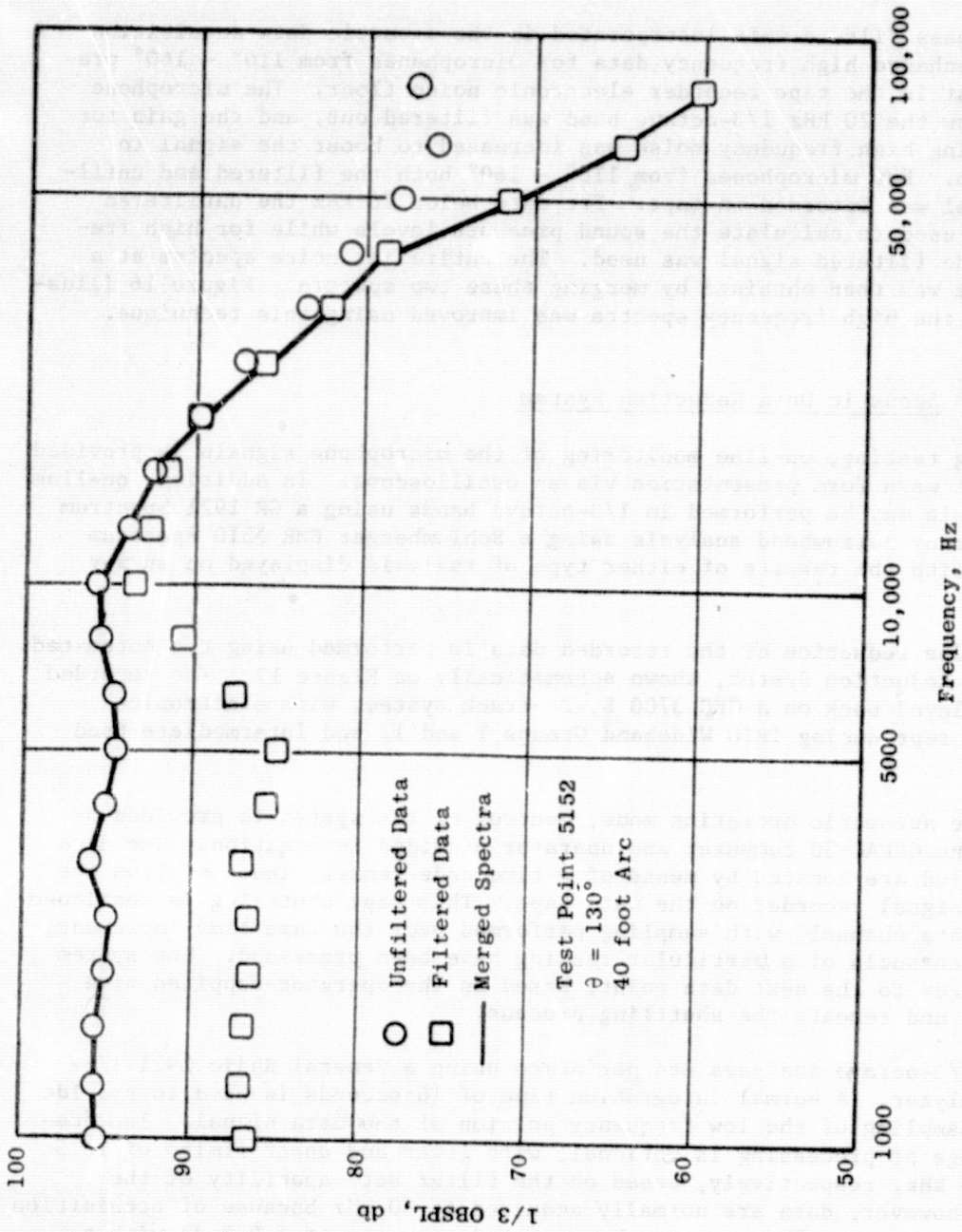


Figure 16. Effect of Dual-Filter System on Measured High Frequency Data.

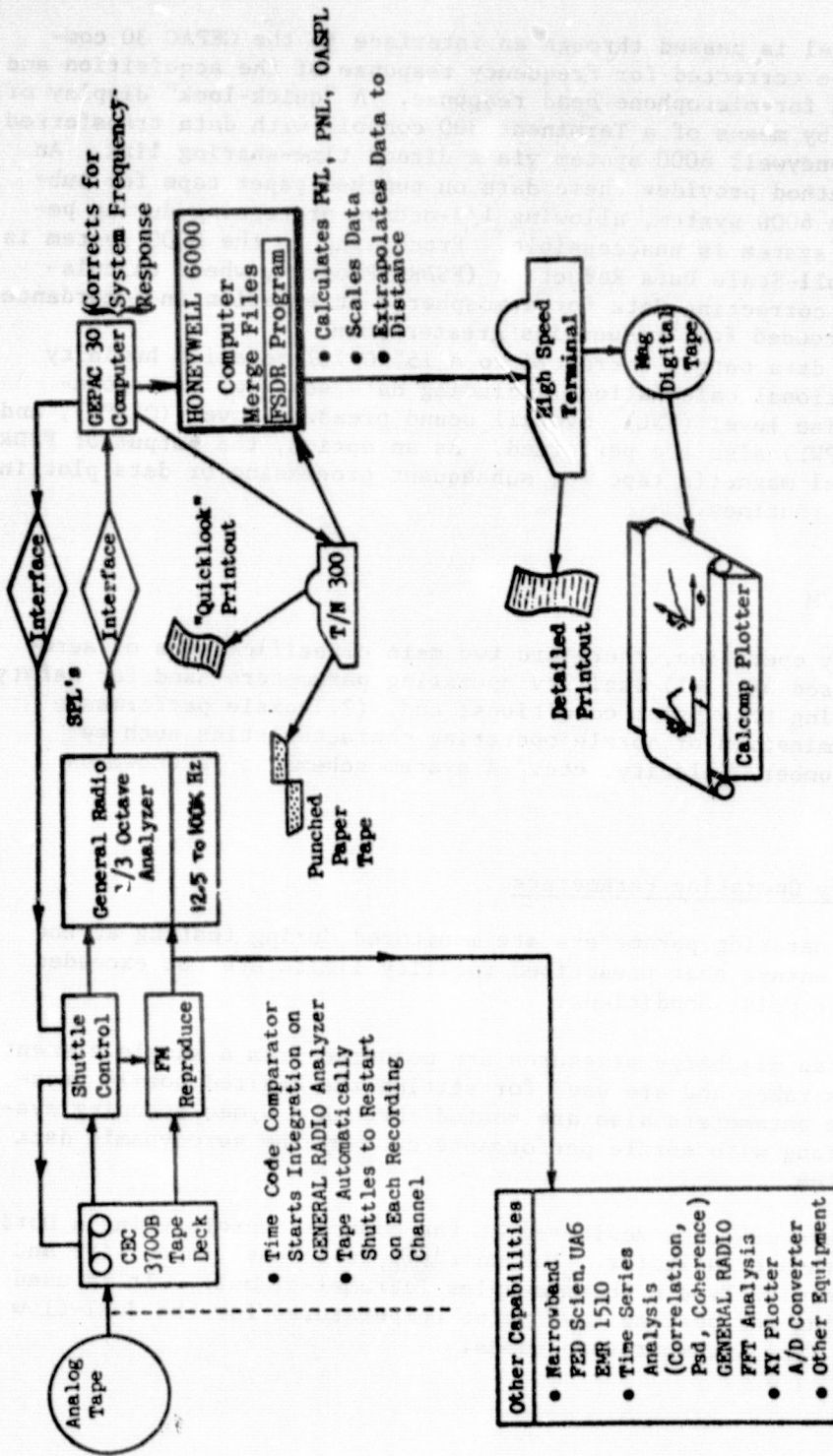


Figure 17. General Electric Acoustic Data Reduction System.

Each data channel is passed through an interface to the GEPAC 30 computer, where data are corrected for frequency response of the acquisition and reduction system and for microphone head response. A "quick-look" display of results is provided by means of a Terment 300 console with data transferred and stored in the Honeywell 6000 system via a direct time-sharing link. An alternate to this method provides these data on punched paper tape for subsequent input to the 6000 system, allowing 1/3-octave processing during periods when the 6000 system is inaccessible. Processing in the 6000 system is performed via the Full-Scale Data Reduction (FSDR) Program, where calculations are performed correcting data for atmospheric attenuation in accordance with SAE ARP 866 extended for frequencies greater than 10,000 Hz, with all data output corrected to a 15° C/70% relative humidity standard day. Additional calculations including data scaling, extrapolations, perceived noise level (PNL), overall sound pressure level (OASPL), and sound power level (PWL) also are performed. As an option, the output of FSDR is written on digital magnetic tape for subsequent processing or data plotting via Calcomp plotter routines.

3.3 AERO DATA SYSTEM

During facility operation, there are two main classifications of aerodynamic data comprised of: (1) facility operating parameters used for safety monitoring and setting test point conditions; and, (2) nozzle performance data used for determination of nozzle operating characteristics such as weight flow, Mach number, velocity, etc. A system schematic is shown on Figure 18.

3.3.1 Facility Operating Parameters

The facility operating parameters are monitored during testing at the control console to ensure that prescribed facility limits are not exceeded and for setting test point conditions.

The core and fan discharge pressures are measured from a single element on their respective rakes and are used for setting the desired nozzle pressure ratios. These parameters also are routed through a Dymec scanning system and recorded along with nozzle performance data by the aerodynamic data handling (ADH) system.

Facility temperatures are monitored at the control console using a Doric multichannel temperature indicator. The unit has 24-channel capability and is designed for use with Type K thermocouples (chromel-alumel). It is used for safety monitoring and setting test point temperatures for the dual-flow system, which uses Type K temperature rakes.

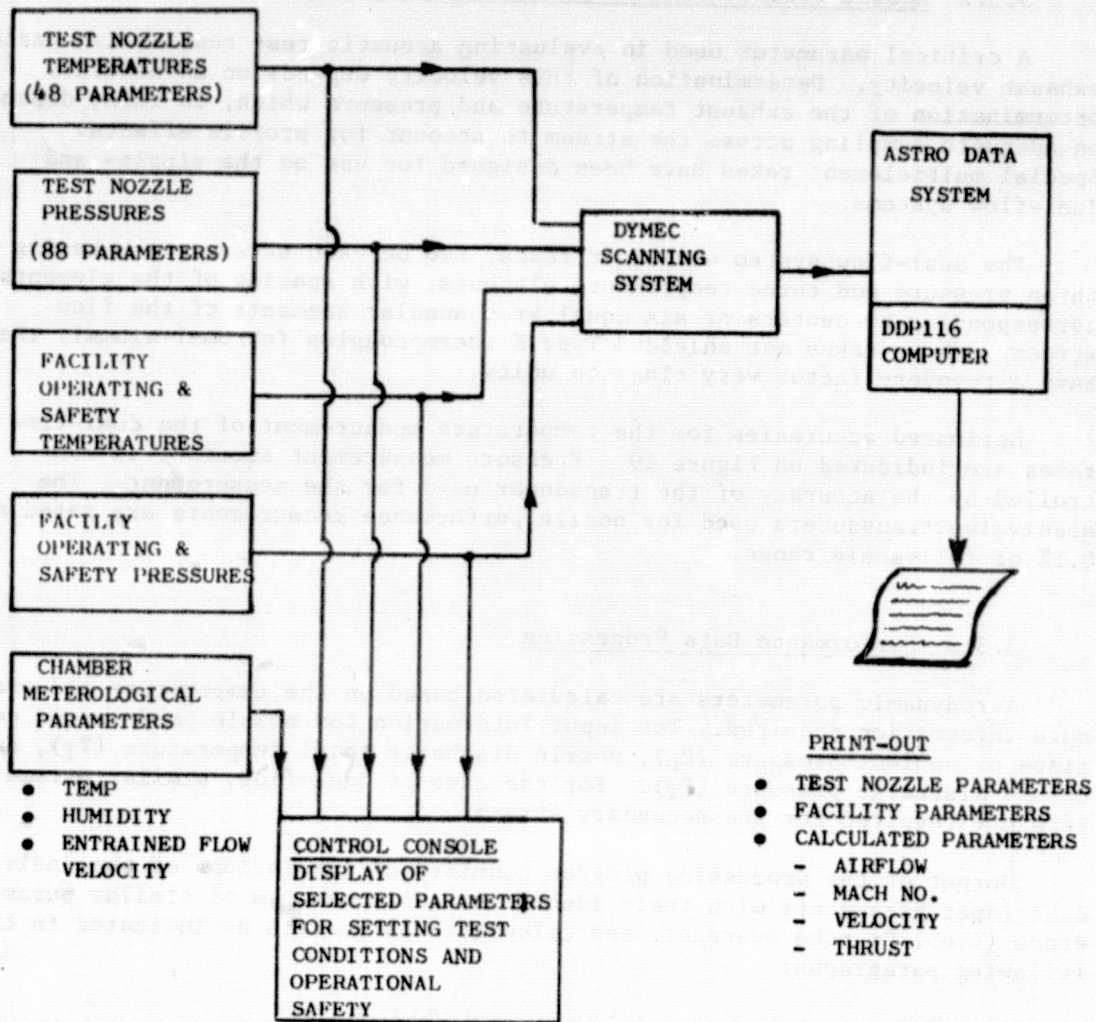


Figure 18. General Electric Anechoic Chamber Aerodynamic Data Processing System.

3.3.2 Nozzle Pressure and Temperature Measurements

A critical parameter used in evaluating acoustic test results is nozzle exhaust velocity. Determination of this velocity depends on an accurate determination of the exhaust temperature and pressure which, in turn, depend on adequate sampling across the stream to account for profile effects. Special multielement rakes have been designed for use on the single- and dual-flow systems.

The dual-flow system uses four rakes, two on each stream, each having three pressure and three temperature elements, with spacing of the elements corresponding to centers of six equal area annular segments of the flow stream. These rakes use shielded Type K thermocouples (chromel-alumel) that have a recovery factor very close to unity.

Estimated accuracies for the temperature measurement of the dual-flow rakes are indicated on Figure 19. Pressure measurement accuracy is controlled by the accuracy of the transducer used for the measurement. The scanivalve transducers used for nozzle performance measurements are rated at 0.1% of full-scale range.

3.3.3 Performance Data Processing

Aerodynamic parameters are calculated based on the temperature and pressure information acquired. The input information for nozzle performance consists of ambient pressure (P_0), nozzle discharge total temperature (T_T), and nozzle discharge pressure (P_T). For the case of dual-flow, similar parameters are required for the secondary stream.

Output of the processing program consists of tabulations of the individual input parameters with their identification, averages of similar parameters (i.e., P_T rake average), and calculated parameters as indicated in the following paragraphs:

1. Gamma

For $T_S \leq 440^\circ \text{ K}$ (788.3° R); $\gamma = 1.4$

For $T_S > 440^\circ \text{ K}$ (788.3° R); $\gamma = \frac{2.23708}{(T_S)^{0.070271}}$
with T_S in $^\circ \text{ R}$

2. Isentropic or Ideal Mach number

$$M = \left(\frac{2}{\gamma - 1} \right)^{1/2} \left(\left(\frac{P_T}{P_0} \right)^{\frac{\gamma - 1}{\gamma}} - 1 \right)^{1/2}$$

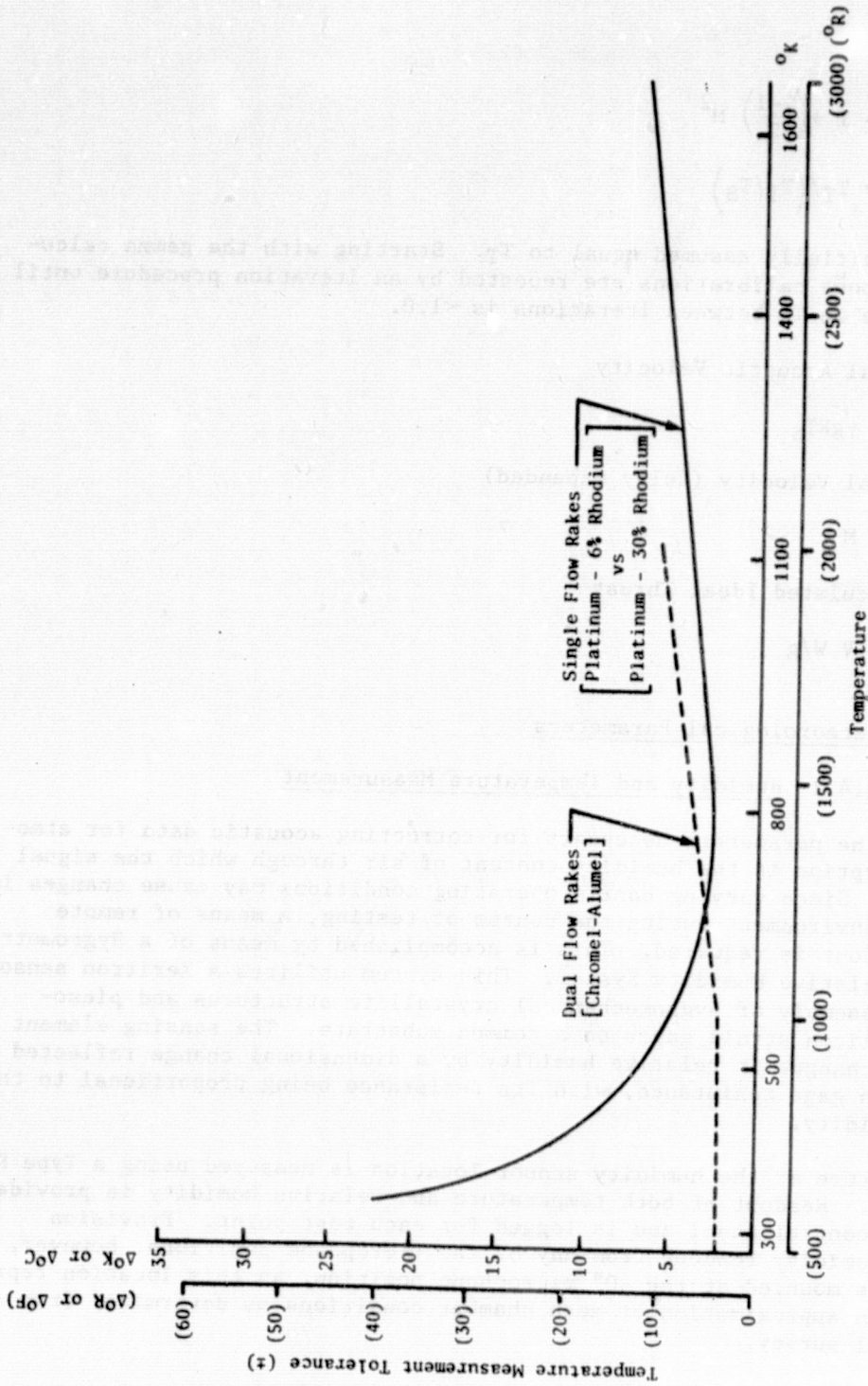


Figure 19. General Electric Anechoic Facility Temperature Measurement Tolerances.

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$$\frac{T_T}{T_S} = 1 + \left(\frac{\gamma-1}{2}\right) M^2$$

$$T_S = T_T / \left(\frac{T_T}{T_S}\right)$$

where T_S is initially assumed equal to T_T . Starting with the gamma calculation, the above calculations are repeated by an iteration procedure until the difference in T_S between iterations is <1.0 .

3. Local Acoustic Velocity

$$c = \gamma g R T_S$$

4. Ideal Velocity (fully expanded)

$$V = M c$$

5. Calculated Ideal Thrust

$$F = V W/g$$

3.3.4 Meteorological Parameters

3.3.4.1 Humidity and Temperature Measurement

One of the parameters necessary for correcting acoustic data for atmospheric absorption is the humidity content of air through which the signal is propagating. Since varying nozzle operating conditions may cause changes in the chamber environment during the course of testing, a means of remote humidity readout is required. This is accomplished by means of a Hygrometrix Model 8501 Relative Humidity System. This system utilizes a Xeritron sensor that is an assembly of hygromechanical crystallite structures and piezoresistive silicon strain gages on a common substrate. The sensing element responds to changes in relative humidity by a dimensional change reflected in the strain gage resistance, with its resistance being proportional to the relative humidity.

Temperature at the humidity sensor location is measured using a Type K thermocouple. Readout of both temperature and relative humidity is provided at the cell control panel and is logged for each test point. Provision exists for humidity readout from any of the microphone positions; however, the sensor is mounted at the 40° microphone position, as this location represented a good approximation of mean chamber conditions as determined from an environmental survey.

The manufacturer's stated accuracy for this system is $\pm 2\%$ over the range of -40°C to 1250°C . A detailed description of the sensor and signal-conditioning, readout, and calibration procedures may be found in the vendor's operations manual.

3.3.4.2 Wind Speed Measurement

To ensure that the requirement of an entrained airflow velocity not exceeding 2.13 m/sec was met, an anemometer system has been provided for use in this test chamber. This system can be affixed to any of the far-field microphone stations with remote digital readout at the control console. This unit is a Climet 011-1 wind speed transmitter, a research grade sensor using a 2-cup anemometer assembly and a light beam chopper producing a square wave output whose frequency is directly proportional to rotational speed. The velocity threshold of this instrument is 0.27 m/sec. Over the range from the threshold to 4.57 m/sec; the rated accuracy is ± 0.067 m/sec.

Based on results of the ambient survey conducted during chamber check-out, mounting the sensor at the 40° position was chosen as being representative of the chamber conditions.

3.4 ANALYSIS OF VARIANCE - OVERALL PRECISION OF THE ACOUSTIC MEASUREMENTS

There are two terms which are used to describe the deviation of data from its expected value: precision and accuracy. In a statistical sense precision is concerned with the random scatter of the data when comparing the mean of the data with a particular sample. Accuracy is a term describing the amount of bias or systematic error in a data population when comparing the mean to a fixed or known value.

Figure 20 represents a montage of error sources which contaminate the pure jet noise and result in significant loss of accuracy and precision. Such biasing errors include contamination from:

- Item 1. Non-anechoic environment and near-field deviations from inverse square law
- Item 2. Variation of the frequency response of the data acquisition and reduction systems
- Item 3. Inaccuracies in aerodynamic instrumentation of fluctuations in the jet aerodynamic conditions
- Item 4. Precision errors in the air attenuation model due to environmental fluctuations, gradients and measurement inaccuracies
- Item 5. Ambient levels in the chamber

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- Item 5. Ambient levels in the chamber

the microphone is mounted on a stand in the center of the room and the microphone is pointed towards the aircraft and the microphone is connected to a recording device. The microphone is connected to a recording device and the recording device is connected to a computer. The computer is connected to a printer and the printer prints out the results of the measurements. The results of the measurements are shown in the figure below.

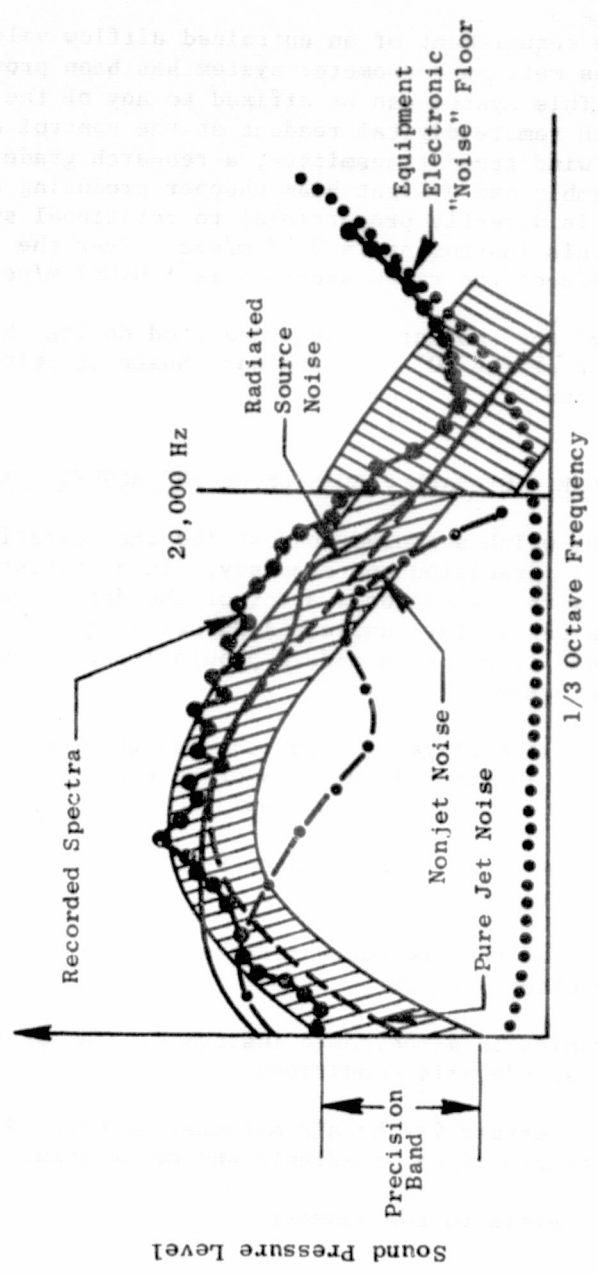


Figure 20. Montage of Possible Contaminants to Acoustic Measurements.

Item 6. Contamination from piping and combustors

Item 7. Contamination from electronic noise floor.

The problem is then defined. Given an acoustic facility which generates a typical frequency spectrum such as shown by the symbols on Figure 20, make the necessary modification or establish appropriate correction factors to the data so the facility will produce the desired jet noise spectra indicated by the dashed line on Figure 20. Furthermore, the precision of the final corrected sound pressure level with frequency will exhibit specific standard deviations from the lowest frequency of interest to 80 kHz as indicated by the precision band on the figure.

Calculation of the precision error was carried out for an ambient temperature of 15° C and 70% relative humidity and three representative jet conditions:

Case	T_T	V
	K	m/sec
1	900	427
2	600	305
3	300	213

Table 3 shows the intermediate standard deviation obtained from root sum square of the standard deviations from inverse square law testing which is σ_1 , acoustic instrumentation, σ_2 , aerodynamic instrumentation, σ_3 , and fluctuations in the air attenuation correction at 70% RH, σ_4 . Details of these calculations are presented in Reference 1.

The three jet spectra at 90° are shown plotted on Figure 21 using SAE ARP 876 prediction scheme. Superimposed are the contamination levels from ambient noise, microphone floor and flow noise with the transmission loss subtracted to account for the attenuation by the nozzle. The cell ambient is seen to have no effect on the jet levels. The microphone floor has minor influence on the 80 kHz and 100 kHz levels of Cases 2 and 3. Flow noise corrected or nozzle attenuation affects the jet noise below 630 Hz. Assuming a standard deviation of ± 5 dB for both the flow noise and the microphone floor, the total standard deviation of the measurement was calculated from the values in Table 3. The results are given on Table 4.

1. Report No. FAA-RD-76-79, 1A; High Velocity Jet Noise Source Location and Reduction; Task 1 Supplement - Certification of the 14 General Electric Jet Noise Anechoic Test Facility; February, 1977.

Table 3. Standard Deviation Due to Deviation from Inverse Square Law, Acoustic and Aerodynamic Instrumentation Accuracy, and Air Attenuation Fluctuations.

f	Near Field σ_1^* 3-11)	Frequency Response σ_2	Aerodynamic Instrumentation σ_3	Air Attenuation Precision σ_4^{**}	σ_{int}
100	1.7	0.28	0.5	0	1.79
125	0.95	0.28	0.5	0	1.23
160	0.4	0.28	0.5	0	0.7
200	0.75	0.28	0.5	0	0.94
250	0.4	0.28	0.5	0	0.7
315	0.4	0.28	0.5	0	0.7
400	0.3	0.28	0.5	0	0.67
500	0.35	0.28	0.5	0	0.67
630	0.55	0.28	0.5	0	0.8
800	0.35	0.28	0.5	0	0.67
1000	0.4	0.28	0.5	0	0.7
1250	0.25	0.28	0.5	0	0.63
1600	0.45	0.28	0.5	0	0.73
2000	0.4	0.28	0.5	0	0.7
2500	0.4	0.28	0.5	0	0.7
3150	0.25	0.28	0.5	0	0.63
4000	0.35	0.28	0.5	0	0.67
5000	0.4	0.28	0.5	0	0.7
6300	0.45	0.28	0.5	0	0.73
8000	0.7	0.28	0.5	0	0.9
10000	0.6	0.33	0.5	0	0.84
12500	0.6	0.33	0.5	0.1	0.85
16000	0.75	0.33	0.5	0.2	0.98
20000	0.65	0.33	0.5	0.35	0.99
25000	0.6	0.33	0.5	0.5	0.99
31500	0.55	0.33	0.5	0.7	1.07
40000	0.7	0.33	0.5	0.95	1.33
50000	0.8	0.33	0.5	1.25	1.6
63000	0.8	0.33	0.5	1.6	1.89
80000	1.2	0.33	0.5	2.2	2.58
100000	0.75	0.33	0.5	3.0	3.15

* Most Severe Case

** At 70%

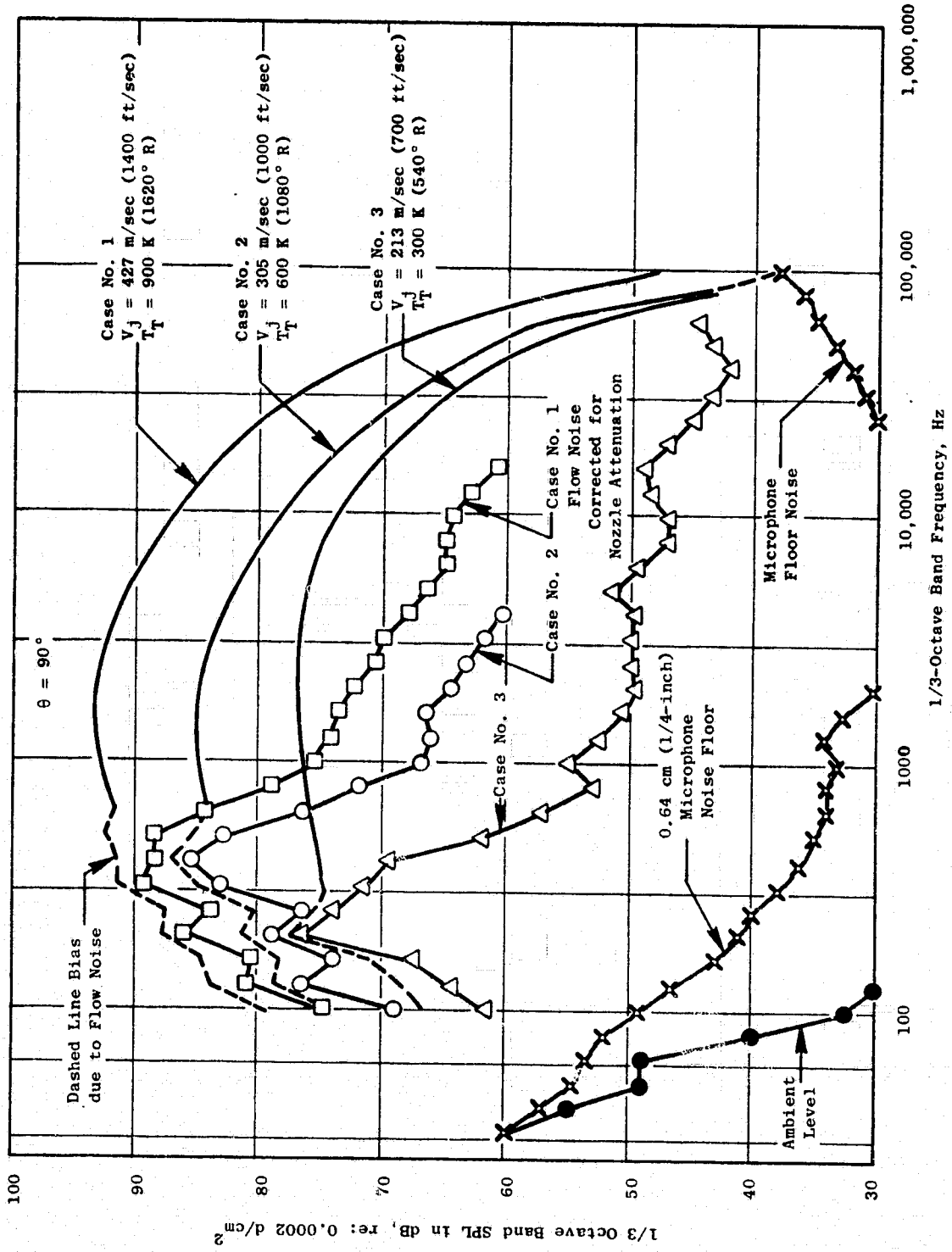


Figure 21. Overlay of Contamination Sources Added to Jet Noise.

Table 4. Standard Deviation Due to Flow Noise and Microphone Floor.

$$\sigma_6 = \sigma_{\text{flow noise}} = 5 \text{ dB}$$

Hz	Case 1		Case 2		Case 3	
	σ	σ_{Total}	σ	σ_{Total}	σ	σ_{Total}
100	3.0	2.05	4.5	1.86	3.5	1.98
125	-0.5	2.44	-2.0	2.08	1.5	2.19
160	2.0	1.98	2.0	1.98	1.0	2.25
200	-3.0	1.78	-1.5	2.14	-7.0	1.14
250	1.0	2.25	1.5	2.11	-3.0	1.73
315	-1.7	2.06	-2.7	1.81	0.5	2.39
400	0.5	2.38	-4.0	1.50	4.0	1.50
500	2.0	1.98	-1.0	2.24	13.0	0.68
630	6.4	1.14	6.9	1.08	---	---
80K	---	---	5.0	2.27	5.0	2.27
100K	9.5	2.85	-7.5	4.24	-7.5	4.25

(Mic Floor)

$$\sigma_{\text{Mic}} = 5$$

Tape recorder noise floor would have the most severe effect on Case 2, since its spectrum peak is at the lowest frequency. This situation is studied in Figure 22 at the optimum gain, which may typically be experienced in practice (10 dB off and 20 dB off). The Wideband Group I recorder floor is seen to influence the jet spectra to various degrees above 40 kHz. Table 5 presents the calculation of the total standard deviation from the values in Tables 3 and 4.

Figure 23 shows the composite standard deviation of measured data from all contamination sources. Over the 400 Hz to 80 kHz range interest measurements to within ± 2.5 dB standard deviation can be obtained. Between 630 Hz and 31.5 kHz, the precision is within ± 1 dB.

Bias errors which give repeatable deviations from pure jet noise due to flow noise, electronic noise floor or inaccurate air attenuation corrections have not been considered in this calculation because of lack of information about the degree of bias in any particular situation. It is noted with respect to the electronic noise floor that for this program a dual filter technique was utilized to eliminate the electronic noise floor at the high frequencies. This technique is discussed in Section 3.2.1. Floor noise is only significant at low frequencies and when the model scale data is scaled up to full size, this flow noise is shifted to frequencies (less than 50 Hz) which have very low noise weightings.

3.5 CERTIFICATION

Reference 1 summarizes the certification testing of the General Electric Jet Noise Anechoic Test Facility which was used in this program. A complete description of the facility is presented along with an evaluation of the precision and accuracy of the acoustic measurements. Jet Noise measurements from conical nozzles are compared with classical referee data.

Table 5. Contamination from Tape Recorder Floor.

(Case 2: $T_T = 600$ K (1080° R); $V_j = 305$ m/sec (1000 ft/sec)

$$\sigma_7 = \sigma_{\text{floor}} = 3 \text{ dB}$$

kHz	Optimum Gain		Off 10 dB in Gain		Off 20 dB in Gain	
	δ	σ_{Total}	δ	σ_{Total}	δ	σ_{Total}
40					8.5	1.2
50					3.5	1.44
63			7.5		-2.5	2.55
80	5.0	2.09	-3.0	1.86	-13.0	2.32
100	-8.0	3.83	-18.0	3.0	-28.0	3.0

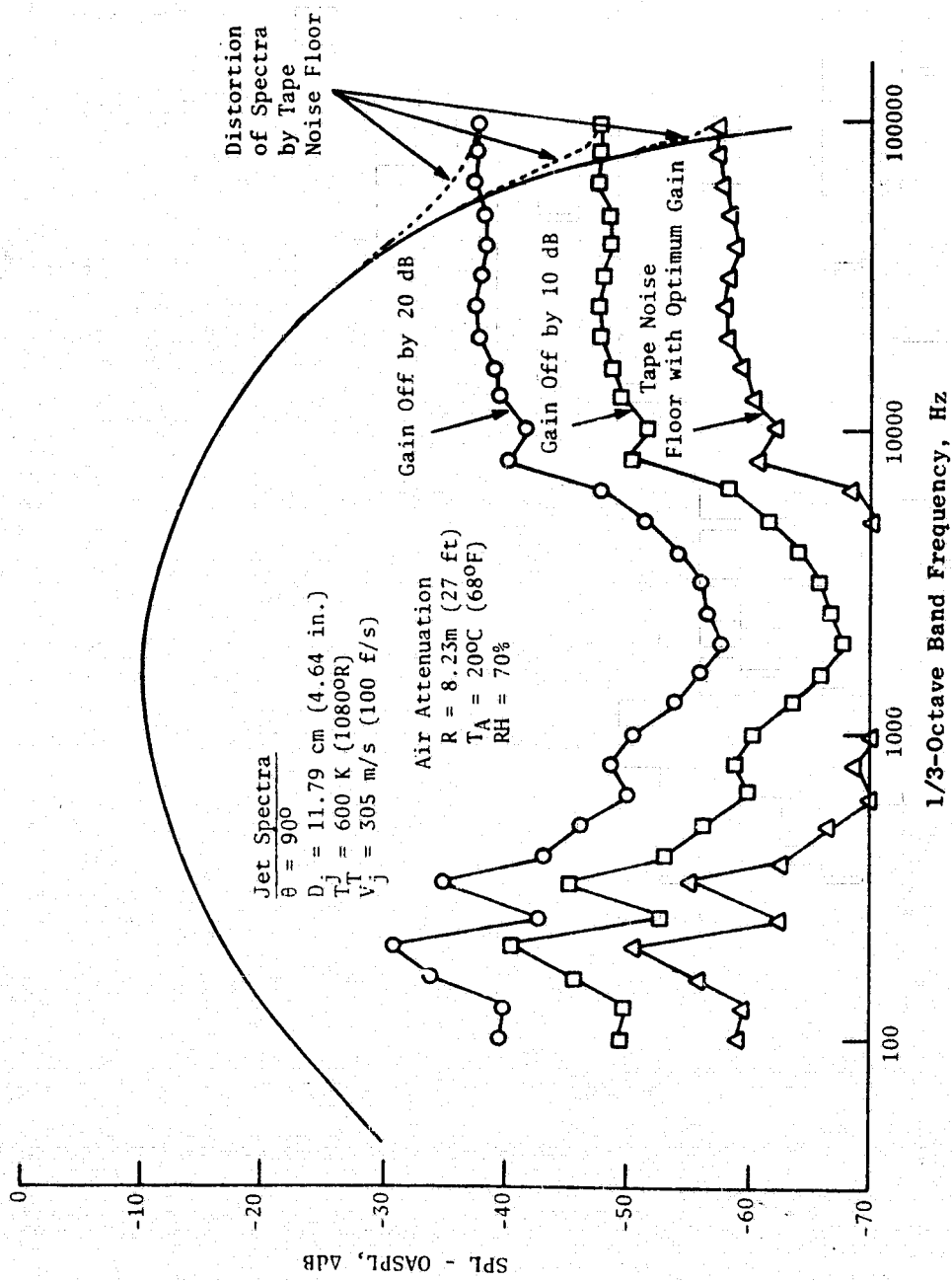


Figure 22. Example of Possible Electronic Noise Floor Contamination of Jet Noise Spectra.

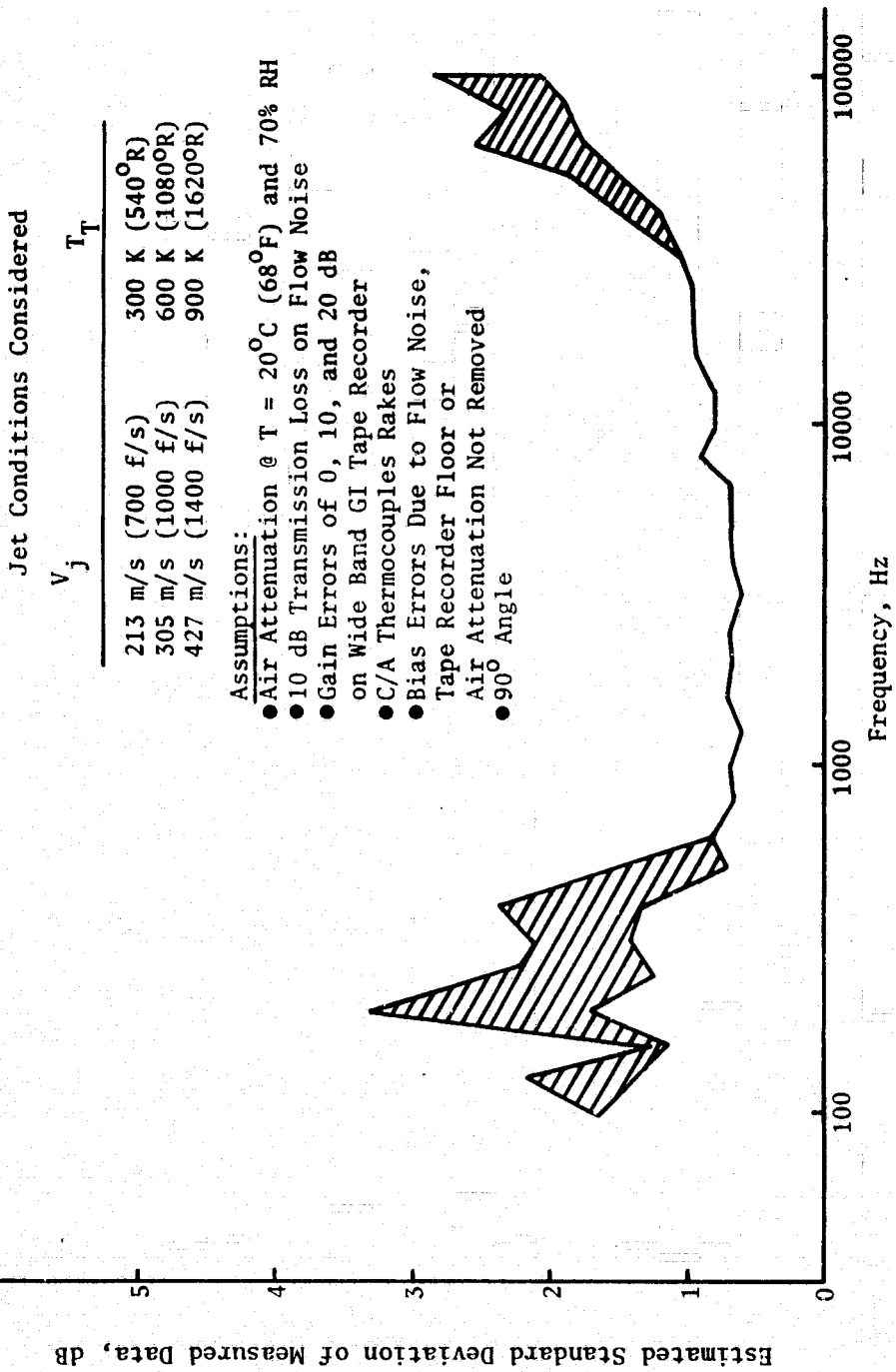


Figure 23. Estimated Standard Deviation of Measured Data due to all Contaminates in the General Electric Jet Noise Anechoic Chamber.

4.0 ACOUSTIC TEST POINT DEFINITION

The following pages define the measured aerodynamic test conditions for the acoustic test points taken on each configuration. For convenience, the parameters are presented in both English units (Table 6) and in the International System of Units (Table 7). Besides the inner and outer flow aerodynamic parameters, the "mixed" conditions are also tabulated. These "mixed" conditions were calculated assuming that the inner and outer streams are perfectly mixed together. The resulting mixed velocity (V^{MIX}) and total temperature (T_T^{MIX}) are defined as

$$V^{MIX} = \frac{V^o W^o + V^i W^i}{W^o + W^i}$$

and

$$T_T^{MIX} = \frac{T_T^o W^o + T_T^i W^i}{W^o + W^i}$$

From this mixed velocity and total temperature, the other mixed aerodynamic parameters were calculated using standard compressible fluid flow equations which can be found in Reference 2.

Reference 2. I.H. Edelfelt, Compressible Flow Data, General Electric Report Number R52GL-300 dated December 9, 1952.

- CONFIGURATION 1

Test Point	P _r ^o	V ^o	T ^o	T ^o	W ^o	P ^o	V ^o	T ^o	T ^o	W ^o	P ^o	V ^o	T ^o	T ^o	W ^o	P ^o	V ^o	T ^o	T ^o	W ^o	P ^o	V ^o	T ^o	T ^o	W ^o	P ^o	V ^o	T ^o	T ^o	W ^o	P ^o	V ^o	T ^o	T ^o	W ^o
1	1.37	844.	690.	631.	4.02	106.	1.83	1000.	527.	444.	10.57	328.	1.65	957.	572.	496.	14.59	434.	1.18	0.72	0.24														
2	1.50	967.	711.	633.	4.59	130.	1.78	940.	526.	446.	10.30	314.	1.67	976.	583.	504.	14.89	452.	1.01	0.69	0.31														
3	2.05	1472.	970.	790.	5.62	257.	1.76	944.	534.	457.	10.09	308.	1.85	1159.	693.	581.	15.71	506.	0.67	0.64	0.36														
4	2.71	2039.	1386.	1058.	6.15	390.	1.77	993.	546.	464.	10.04	310.	2.06	1300.	865.	704.	16.18	699.	0.49	0.62	0.38														
5	1.29	789.	730.	678.	3.50	86.	1.58	1211.	989.	869.	6.53	246.	1.47	1054.	899.	805.	10.33	332.	1.53	0.85	0.35														
6	1.51	985.	730.	649.	4.56	140.	1.59	1216.	990.	869.	6.56	248.	1.55	1121.	883.	779.	11.12	388.	1.23	0.59	0.41														
7	1.74	1218.	845.	722.	5.07	192.	1.61	1229.	989.	865.	6.66	254.	1.66	1224.	927.	802.	11.73	446.	1.01	0.57	0.43														
8	2.53	1822.	1183.	914.	6.23	353.	1.60	1229.	1005.	882.	6.53	250.	1.96	1518.	1092.	905.	12.77	603.	0.67	0.51	0.49														
9	3.35	2425.	1655.	1202.	6.92	522.	1.59	1222.	1004.	882.	6.49	247.	2.28	1843.	1340.	1073.	13.42	769.	0.50	0.48	0.52														
10	4.52	2730.	1746.	1169.	9.09	771.	1.69	1480.	1304.	1133.	6.12	282.	2.88	2227.	1568.	1185.	15.21	1053.	0.54	0.40	0.59														
12	3.71	2560.	1723.	1220.	7.50	597.	1.00	48.	1539.	1539.	0.15	0.	3.51	2517.	1719.	1236.	7.65	597.	0.02	0.02	0.45														
13	3.70	2562.	1728.	1225.	7.47	595.	1.00	96.	1527.	1526.	0.29	1.	3.33	2468.	1720.	1255.	7.77	596.	0.04	0.04	0.96														
14	3.71	2572.	1739.	1232.	7.46	596.	1.00	136.	1440.	1439.	0.44	2.	3.20	2435.	1722.	1271.	7.90	594.	0.05	0.06	0.94														
16	2.74	2295.	1730.	1333.	5.53	394.	1.00	35.	1544.	1544.	0.11	0.	2.63	2252.	1726.	1345.	5.64	395.	0.02	0.02	0.93														
17	2.75	2306.	1743.	1343.	5.52	396.	1.00	73.	1576.	1576.	0.22	0.	2.54	2221.	1737.	1366.	5.74	396.	0.03	0.04	0.76														
18	2.74	2304.	1742.	1342.	5.51	395.	1.00	104.	1508.	1507.	0.32	1.	2.46	2182.	1729.	1372.	5.84	396.	0.05	0.06	0.94														
20	2.04	1896.	1410.	1339.	4.27	252.	1.00	25.	1369.	1369.	0.09	0.	1.98	1859.	1605.	1345.	4.36	252.	0.01	0.02	0.98														
21	2.05	1896.	1599.	1328.	4.31	254.	1.00	51.	1420.	1420.	0.17	0.	1.94	1827.	1592.	1341.	4.48	254.	0.03	0.04	0.96														
22	2.04	1889.	1597.	1328.	4.29	252.	1.00	74.	1372.	1372.	0.25	1.	1.89	1788.	1584.	1344.	4.55	253.	0.04	0.06	0.94														
23	1.46	1296.	1356.	1227.	3.17	128.	1.00	9.	657.	657.	0.06	0.	1.44	1270.	1342.	1214.	3.24	128.	0.01	0.02	0.58														
24	1.47	1305.	1369.	1234.	3.18	129.	1.00	35.	668.	668.	0.19	0.	1.42	1236.	1341.	1224.	3.36	129.	0.03	0.06	0.91														
25	1.64	1511.	1431.	1257.	3.61	170.	1.00	17.	1119.	1119.	0.07	0.	1.61	1482.	1425.	1257.	3.68	170.	0.01	0.02	0.98														
26	1.63	1520.	1450.	1278.	3.57	169.	1.00	55.	1190.	1190.	0.22	0.	1.56	1436.	1439.	1282.	3.79	169.	0.04	0.06	0.94														
27	2.32	2105.	1708.	1376.	4.71	308.	1.00	29.	1460.	1460.	0.09	0.	2.24	2065.	1703.	1384.	4.80	308.	0.01	0.02	0.98														
28	2.32	2110.	1715.	1382.	4.70	308.	1.00	85.	1442.	1441.	0.28	1.	2.12	1998.	1700.	1402.	4.98	309.	0.04	0.06	0.94														
29	2.75	2304.	1737.	1337.	5.54	397.	1.01	223.	1281.	1277.	0.82	6.	2.22	2036.	1678.	1367.	6.36	403.	0.10	0.13	0.87														
30	3.69	2563.	1732.	1228.	7.44	593.	1.01	236.	1263.	1259.	0.88	6.	2.90	2317.	1682.	1274.	6.32	599.	0.09	0.11	0.89														
150	3.69	2561.	1730.	1227.	7.44	593.	1.00	0.	519.	519.	0.00	0.	3.69	2561.	1730.	1227.	7.44	593.	0.00	0.00	1.00														
151	2.73	2299.	1743.	1345.	5.48	392.	1.00	0.	519.	519.	0.00	0.	2.73	2299.	1743.	1345.	5.48	392.	0.00	0.00	1.00														
152	1.99	1868.	1617.	1355.	4.15	241.	1.00	0.	519.	519.	0.00	0.	1.99	1868.	1617.	1355.	4.15	241.	0.00	0.00	1.00														
153	1.61	1514.	1483.	1310.	3.47	164.	1.00	0.	519.	519.	0.00	0.	1.61	1514.	1483.	1310.	3.47	164.	0.00	0.00	1.00														
154	1.48	1326.	1304.	1250.	3.19	131.	1.00	0.	519.	519.	0.00	0.	1.48	1326.	1304.	1250.	3.19	131.	0.00	0.00	1.00														

Nomenclature

P_r = Pressure Ratio

V_j = Fully Expanded Jet Velocity

T_t = Total Temperature

T = Static Temperature

W_j = Weight Flow

F_j = Ideal Thrust $\left(= \frac{W_j V_j}{g} \right)$

Super Scripts

o = Outer Stream

i = Inner Stream

Mix = Fully Mixed, Outer and Inner Stream

Subscript

T = Total

Table 6. Measured Aerodynamic Parameters - English Units.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

- CONFIGURATION 2

Test Point	P _r	V ₀ ft/sec	T ₀ °R	W ₀ lbm/sec	F ₀ lbf	P ₁ ft/sec	T ₁ °R	V ₁ lbm/sec	F ₁ lbf	P ₂ ft/sec	T ₂ °R	V ₂ lbm/sec	F ₂ lbf	V _{2/V₀}	F _{2/V₀}					
240	1.74	1631.	1502.	3.77	191.	1.99	1365.	859.	796.	5.93	250.	1.84	1462.	1109.	936.	9.70	441.	0.83	0.61	0.59
241	1.94	1827.	1602.	4.07	231.	2.52	1509.	859.	659.	7.54	363.	2.19	1646.	1119.	849.	11.61	594.	0.85	0.65	0.35
242	2.15	1957.	1603.	4.53	275.	3.45	1636.	744.	525.	11.03	561.	2.73	1720.	997.	748.	15.56	836.	0.84	0.71	0.29
243	2.02	1882.	1608.	4.23	248.	2.00	1367.	865.	709.	5.96	253.	1.97	1581.	1174.	973.	10.19	501.	0.73	0.58	0.42
244	2.40	2145.	1710.	4.88	325.	2.50	1539.	856.	659.	7.48	358.	2.38	1778.	1193.	934.	12.35	683.	0.72	0.61	0.39
245	2.70	2293.	1747.	5.43	387.	3.04	1659.	841.	612.	9.19	474.	2.78	1894.	1177.	885.	14.61	860.	0.72	0.63	0.37
246	2.44	2173.	1727.	4.93	333.	2.02	1364.	849.	694.	6.08	258.	2.17	1726.	1242.	1005.	11.01	590.	0.63	0.55	0.45
247	3.53	2471.	1656.	7.31	562.	2.48	1577.	849.	655.	7.45	354.	2.92	1995.	1249.	927.	14.76	915.	0.62	0.50	0.50
248	4.06	2556.	1630.	8.45	671.	3.02	1656.	843.	615.	9.10	469.	3.43	2089.	1222.	864.	17.55	1140.	0.65	0.52	0.48
2108	2.74	2291.	1725.	5.53	394.	1.23	677.	669.	650.	2.11	29.	2.03	1787.	1439.	1193.	17.64	424.	0.20	0.28	0.72
2110	2.76	2308.	1736.	5.57	400.	1.34	902.	851.	783.	3.55	100.	2.04	1760.	1391.	1151.	9.12	499.	0.39	0.39	0.61
2112	2.74	2296.	1731.	5.53	395.	2.06	1386.	855.	695.	6.18	260.	2.34	1816.	1269.	1006.	11.71	661.	0.60	0.53	0.47
2113	2.74	2294.	1727.	5.54	395.	2.79	1614.	854.	637.	8.35	419.	2.68	1885.	1202.	914.	13.69	814.	0.70	0.60	0.40
2114	2.76	2300.	1729.	5.56	398.	1.15	561.	659.	633.	2.74	48.	2.00	1727.	1376.	1147.	8.30	445.	0.24	0.33	0.67
2115	2.76	2306.	1734.	5.57	399.	1.63	1160.	858.	746.	4.80	173.	2.15	1776.	1329.	1081.	10.37	572.	0.50	0.46	0.54
2116	2.74	2299.	1734.	5.53	395.	1.84	1283.	855.	718.	5.51	220.	2.23	1792.	1295.	1041.	11.04	615.	0.56	0.50	0.50
2117	2.75	2291.	1720.	5.56	396.	2.31	1473.	849.	668.	6.94	318.	2.45	1837.	1237.	966.	12.50	714.	0.64	0.56	0.44
284	4.53	2620.	1612.	9.49	773.	2.98	1651.	846.	619.	8.97	461.	3.65	2149.	1240.	861.	18.47	1234.	0.63	0.49	0.51

Table 6. Continued.

- CONFIGURATION 3

Test Point	P _r	v ₀ ft/sec	T ₀ °R	w ₀ lbm/sec	P ₀ lb	P _r	v ₁ ft/sec	T ₁ °R	w ₁ lbm/sec	P ₁ lb	v _m ft/sec	T _m °R	P _m lb	v _m ft/sec	T _m °R	w _m lbm/sec	P _T lb	v _{1/2} ft/sec	w _{1/2} lbm/sec	P _T lb	v _{1/2} ft/sec	w _{1/2} lbm/sec
312	3.73	2567	1727	7.53	601	1.03	357	1283	0.44	5	3.29	2444	1703	1246	7.97	606	0.14	0.06	0.94			
313	3.72	2571	1734	7.50	599	1.07	558	1359	0.67	12	3.15	2407	1704	1262	8.16	611	0.22	0.08	0.92			
314	3.72	2564	1726	7.51	598	1.12	683	1229	0.89	19	3.07	2365	1677	1250	8.40	617	0.27	0.11	0.89			
316	2.72	2284	1723	5.51	391	1.03	348	1247	0.33	3	2.48	2131	1697	1342	5.83	393	0.11	0.06	0.94			
317	2.72	2255	1723	5.51	391	1.03	348	1247	0.49	6	2.40	2131	1687	1345	6.00	397	0.17	0.08	0.92			
318	2.73	2283	1719	5.52	392	1.06	492	1208	0.65	10	2.35	2094	1667	1337	6.17	402	0.22	0.11	0.89			
320	2.04	1898	1612	4.27	252	1.01	167	1042	0.26	1	1.91	1800	1580	1336	4.53	253	0.09	0.06	0.94			
321	2.04	1893	1606	4.28	252	1.02	256	1068	0.38	3	1.87	1758	1562	1328	4.66	255	0.14	0.06	0.92			
322	2.04	1890	1597	4.30	252	1.03	338	1051	0.51	5	1.84	1724	1540	1315	4.81	258	0.18	0.11	0.89			
323	1.46	1211	1185	3.40	128	1.00	136	1100	0.20	1	1.41	1152	1180	1076	3.60	129	0.11	0.05	0.95			
324	1.46	1207	1179	3.41	128	1.02	244	988	0.39	3	1.38	1107	1160	1063	3.80	131	0.20	0.10	0.90			
325	1.63	1510	1488	3.56	167	1.01	166	1284	0.21	1	1.56	1436	1439	1282	3.77	168	0.11	0.05	0.95			
326	1.62	1497	1438	3.55	165	1.02	295	1143	0.41	4	1.51	1371	1407	1264	3.97	169	0.20	0.10	0.90			
327	2.34	2118	1712	4.75	313	1.01	226	1309	0.28	2	2.16	2014	1690	1386	5.02	315	0.11	0.06	0.94			
328	2.39	2143	1716	4.84	322	1.04	418	1224	0.55	7	2.10	1966	1666	1376	5.39	330	0.20	0.10	0.90			
329	2.72	2261	1718	5.52	391	1.11	630	1116	0.93	18	2.29	2043	1631	1316	6.45	409	0.28	0.14	0.86			
330	3.73	2563	1720	7.56	602	1.15	733	1161	1.05	24	3.05	2340	1652	1232	8.60	626	0.29	0.12	0.86			
3150	3.73	2568	1727	7.54	602	1.00	0	519	0.00	0	3.73	2568	1727	1221	7.54	602	0.00	0.00	1.00			
3151	1.99	1462	1401	4.19	242	1.00	0	519	0.00	0	1.99	1862	1601	1340	4.19	242	0.00	0.00	1.00			
3152	1.76	1642	1497	3.82	195	1.07	1384	0	0	0	1.81	1529	1238	1053	6.79	323	0.84	0.44	0.50			
341	1.95	1838	1402	4.10	234	2.47	1572	908	3.72	182	2.10	1711	1270	1038	7.82	416	0.86	0.48	0.52			
342	2.17	1997	1653	4.49	279	3.05	1697	878	4.67	246	2.43	1844	1258	986	9.16	525	0.85	0.51	0.59			
343	2.03	1893	1612	4.26	250	2.03	1433	932	3.02	134	2.01	1702	1330	1103	7.27	385	0.76	0.41	0.59			
344	2.37	2141	1722	4.81	320	2.54	1612	925	3.79	190	2.38	1908	1371	1085	8.59	509	0.75	0.44	0.56			
345	2.73	2301	1782	5.50	393	2.18	1661	1186	2.91	150	2.52	2080	1536	1203	8.40	543	0.72	0.35	0.55			
346	2.44	2180	1740	4.90	332	1.58	1403	1327	1.91	83	2.14	1962	1624	1334	6.81	415	0.64	0.28	0.72			
347	3.20	2462	1726	6.65	509	1.67	1658	1604	1.81	93	2.76	2290	1713	1316	8.46	602	0.67	0.21	0.79			
348	3.80	2565	1705	7.72	616	2.39	1824	1253	3.03	172	3.31	2356	1578	1146	10.76	788	0.71	0.28	0.72			
3107	2.78	2318	1741	5.60	403	1.07	475	937	0.83	12	2.36	2081	1638	1310	6.42	416	0.20	0.13	0.67			
3110	2.73	2294	1731	5.56	399	1.21	768	939	1.38	33	2.27	2000	1576	1272	6.94	431	0.33	0.20	0.80			
3112	2.78	2310	1733	5.52	393	1.48	966	735	2.35	71	2.26	1898	1434	1154	7.87	464	0.42	0.30	0.70			
3113	2.73	2310	1733	5.60	402	1.63	1432	1302	2.00	89	2.38	2079	1619	1292	7.60	491	0.42	0.26	0.74			
3114	2.78	2311	1742	5.50	393	1.97	1629	1250	2.51	127	2.46	2091	1588	1254	8.00	520	0.71	0.31	0.69			
3115	2.72	2300	1730	5.60	402	1.12	587	910	1.06	19	2.31	2036	1602	1288	6.66	421	0.25	0.16	0.64			
				5.46	390	1.93	1198	699	3.30	123	2.36	1885	1353	1073	8.76	513	0.52	0.38	0.62			

Table 6. Continued.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

CONFIGURATION 4

Test Point	P _r	V ₀ ft/sec	T ₀ °R	W ₀ lbm/sec	F ₀ lbf	P _r ⁰ ft/sec	T _r ⁰ °R	T _r ¹ °R	W _r ¹ lbm/sec	F _r ¹ lbf	P _r ¹ ft/sec	T _r ¹ °R	T _r ² °R	V _r ² ft/sec	W _r ² lbm/sec	F _r ² lbf	V _r ² ft/sec	W _r ² lbm/sec	F _r ² lbf	
440	1.74	1633.	1502.	3.78	192.	2.02	1352.	837.	6.11	257.	1.26	1459.	1091.	919.	9.88	448.	0.83	0.62	0.38	
441	1.98	1870.	1628.	4.12	240.	2.48	1521.	841.	7.50	354.	2.19	1645.	1120.	900.	11.62	594.	0.81	0.65	0.35	
442	2.18	1987.	1631.	4.54	280.	3.05	1661.	842.	9.19	475.	2.50	1769.	1103.	845.	13.73	755.	0.84	0.67	0.33	
443	2.04	1907.	1625.	4.26	252.	2.08	1383.	845.	6.25	269.	2.02	1595.	1161.	956.	10.51	521.	0.73	0.59	0.41	
444	2.39	2158.	1735.	4.82	324.	2.50	1524.	840.	7.54	357.	2.37	1771.	1189.	936.	12.37	681.	0.71	0.61	0.39	
446	2.80	2299.	1703.	5.71	408.	3.05	1669.	849.	9.17	476.	2.84	1911.	1176.	878.	14.88	884.	0.73	0.62	0.38	
447	2.43	2192.	1765.	4.85	330.	1.99	1346.	845.	6.94	351.	2.15	1724.	1256.	1020.	10.84	541.	0.61	0.55	0.45	
448	3.65	2477.	1633.	7.59	584.	2.53	1558.	867.	7.52	364.	3.01	2019.	1252.	922.	15.11	949.	0.63	0.50	0.50	
449	4.03	2572.	1656.	8.32	665.	3.02	1625.	812.	9.27	468.	3.39	2073.	1211.	859.	17.59	1134.	0.63	0.53	0.47	
484	4.53	2620.	1612.	9.49	772.	2.98	1651.	846.	8.97	460.		2149.	1240.		18.47	1232.	0.63	0.49	0.51	
4197	2.68	2287.	1751.	5.37	382.	1.10	480.	730.	7.11	208	31.	1.99	1782.	1466.	1222.	7.46	413.	0.21	0.28	0.72
4198	2.68	2287.	1752.	5.37	382.	1.26	713.	655.	6.13	359	80.	1.94	1656.	1312.	1097.	6.96	461.	0.31	0.40	0.50
4110	2.75	2307.	1743.	5.53	396.	1.34	908.	850.	7.81	359	101.	2.03	1756.	1392.	1152.	9.11	497.	0.39	0.39	0.61
4112	2.76	2331.	1770.	5.51	399.	2.05	1374.	848.	6.91	6.16	263.	2.35	1826.	1284.	1019.	11.67	662.	0.59	0.53	0.47
4113	2.75	2312.	1740.	5.52	397.	2.79	1661.	840.	6.27.	8.42	419.	2.67	1863.	1700.	913.	13.94	816.	0.69	0.60	0.40.
4114	2.67	2288.	1755.	5.36	381.	1.15	568.	687.	6.60	2.65	47.	1.95	1718.	1401.	1173.	8.01	428.	0.25	0.33	0.67
4115	2.84	2330.	1731.	5.73	415.	1.63	1142.	837.	7.28.	4.84	172.	2.18	1786.	1322.	1071.	10.56	586.	0.49	0.46	0.54
4116	2.76	2288.	1707.	5.62	400.	1.86	1264.	820.	6.87.	5.68	223.	2.25	1773.	1261.	1011.	11.29	623.	0.55	0.50	0.50
4118	2.69	2293.	1754.	5.39	384.	1.05	353.	785.	7.75.	1.41	15.	2.09	1892.	1554.	1282.	6.80	400.	0.15	0.21	0.79

Table 6. Continued.

- CONFIGURATION 5

Test Point	P _r ⁰	V ₀ ⁰ ft/sec	T _r ⁰ °R	W ⁰ lbm/sec	F _r ⁰ lb	P _r ¹	V _r ¹ ft/sec	T _r ¹ °R	W ¹ lbm/sec	F _r ¹ lb	P _r ²	V _r ² ft/sec	T _r ² °R	W ² lbm/sec	F _r ² lb	V _{LN} ⁰ ft/sec	V _{LN} ¹ ft/sec	V _{LN} ² ft/sec		
540	1.76	1656.	1524.	1317.	6.17	318.	2.08	1325.	822.	667.	6.35	269.	1.85	1508.	1168.	986.	12.52	587.	0.51	0.49
511	1.96	1844.	1604.	1348.	6.72	385.	2.53	1524.	830.	637.	7.68	364.	2.14	1673.	1191.	466.	14.40	709.	0.83	0.47
542	2.15	2004.	1686.	1379.	7.21	449.	3.00	1637.	829.	606.	9.10	463.	2.42	1799.	1205.	944.	16.31	912.	0.62	0.56
543	2.05	1903.	1614.	1341.	6.99	414.	2.04	1371.	850.	694.	6.12	261.	2.01	1655.	1258.	1041.	13.11	674.	0.72	0.53
544	2.38	2134.	1717.	1374.	7.86	522.	2.57	1546.	841.	642.	7.76	373.	2.38	1844.	1282.	1011.	15.62	895.	0.72	0.50
545	2.74	2341.	1796.	1386.	8.86	645.	3.01	1643.	832.	607.	9.13	466.	2.74	1987.	1307.	992.	18.00	1111.	0.70	0.51
546	2.41	2161.	1726.	1376.	7.96	535.	1.99	1345.	843.	692.	6.00	251.	2.20	1810.	1346.	1089.	13.96	786.	0.62	0.43
547	3.37	2416.	1638.	1188.	11.42	857.	2.42	1511.	850.	640.	7.28	342.	2.93	2064.	1331.	991.	18.70	1199.	0.63	0.51
548	3.39	2417.	1633.	1182.	11.50	864.	2.94	1652.	857.	630.	8.74	451.	3.12	2086.	1297.	947.	20.29	1315.	0.68	0.43
5107	2.74	2301.	1741.	1342.	8.98	642.	1.08	423.	711.	696.	1.67	25.	2.24	1977.	1563.	1265.	10.86	667.	0.18	0.43
5108	2.73	2298.	1738.	1340.	8.98	642.	1.18	681.	852.	814.	2.58	55.	2.19	1937.	1540.	1254.	11.56	686.	0.30	0.22
5110	2.74	2292.	1724.	1328.	9.05	645.	1.38	940.	839.	765.	3.79	111.	2.21	1893.	1463.	1186.	12.84	756.	0.41	0.30
5112	2.74	2302.	1741.	1342.	8.99	643.	2.16	1408.	836.	671.	6.53	286.	2.45	1926.	1360.	1068.	15.53	928.	0.61	0.42
5113	2.74	2305.	1746.	1346.	8.97	643.	2.78	1580.	821.	613.	8.48	417.	2.66	1953.	1297.	992.	17.46	1060.	0.69	0.49
5114	2.75	2307.	1740.	1339.	9.05	649.	1.15	579.	721.	693.	2.58	46.	2.20	1924.	1514.	1230.	11.62	695.	0.25	0.22
5115	2.74	2289.	1719.	1323.	9.07	645.	1.69	1173.	826.	711.	5.09	185.	2.29	1888.	1398.	1120.	14.16	831.	0.51	0.36
5150	4.26	2376.	1378.	921.	15.83	1169.	1.00	0.	519.	519.	0.00	0.	4.26	2376.	1378.	921.	15.83	1169.	0.00	0.00
5151	2.74	2294.	1730.	1333.	9.02	643.	1.00	0.	519.	519.	0.00	0.	2.74	2294.	1730.	1333.	9.02	643.	0.00	0.00
5152	1.98	1860.	1612.	1352.	6.76	391.	1.00	0.	519.	519.	0.00	0.	1.98	1860.	1612.	1352.	6.76	391.	0.00	0.00

Table 6. Continued.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

Conical Nozzle

<u>Test Point</u>	<u>P_r</u>	<u>V</u>	<u>T_T</u>	<u>T</u>	<u>W</u>	<u>F</u>
1	3.727	2579	1741	1231	11.486	919.9
2	2.687	2296	1757	1361	8.247	588.1
3	2.296	2096	1709	1380	7.141	464.8
4	2.118	1973	1660	1368	6.691	410.0
5	1.960	1853	1618	1360	6.273	361.0
6	2.776	1606	847	632	12.468	621.9
7	2.591	1554	844	643	11.634	561.5

Table 6. Concluded.

Conical Nozzle

<u>Test Point</u>	<u>P_r</u>	<u>V</u>	<u>T_T</u>	<u>T</u>	<u>W</u>	<u>F</u>
1	3.727	786	967	684	5.210	4091.7
2	2.687	700	976	756	3.741	2615.9
3	2.296	639	949	767	3.239	2067.4
4	2.118	601	922	760	3.035	1823.7
5	1.960	565	899	756	2.845	1605.7
6	2.776	490	471	351	5.655	2766.2
7	2.591	474	469	357	5.277	2497.6

Table 7. Measured Aerodynamic Parameters, International System of Units.

--- CONFIGURATION I ---

Test Point	P_o R	V_o m/sec	T_o °K	P_o N	W_o kg/sec	P^o N	P_i R	V_i m/sec	T_i °K	P^i N	P^m R	V^m m/sec	T^m °K	P^m R	P^i N	V^i kg/sec	T^i °K	P^i N	P^o R	W^o kg/sec	P^o N	P^o R	V^o m/sec	T^o °K	P^o N	W^o kg/sec	P^o R	V^o m/sec	T^o °K	P^o N	W^o kg/sec	P^o R	V^o m/sec	T^o °K	P^o N	W^o kg/sec	P^o R	V^o m/sec	T^o °K	P^o N	W^o kg/sec	P^o R	V^o m/sec	T^o °K	P^o N	W^o kg/sec	P^o R	V^o m/sec	T^o °K
1	1.37	257	383	1.83	469	1.83	305	293	247	4.79	1461	1.65	292	318	275	6.62	1930	1.18	0.72	0.28																													
2	1.50	245	395	1.78	614	1.78	249	292	248	4.67	1396	1.67	297	324	280	6.75	2009	1.01	0.69	0.31																													
3	2.05	449	539	2.55	1144	1.76	300	299	254	4.58	1372	1.85	353	323	280	7.12	2516	0.67	0.64	0.36																													
4	2.71	621	770	5.88	279	1.77	303	303	258	4.55	1378	2.06	424	481	391	7.34	3111	0.49	0.62	0.38																													
5	1.29	240	406	1.59	381	1.58	369	549	483	2.96	1094	1.47	324	499	447	4.55	1475	1.53	0.65	0.35																													
6	1.51	300	406	1.59	371	1.59	371	550	483	2.98	1103	1.55	342	491	436	5.04	1724	1.23	0.59	0.41																													
7	1.74	371	469	1.61	854	1.61	375	549	481	3.02	1131	1.66	373	515	436	5.32	1986	1.01	0.57	0.43																													
8	2.53	555	657	2.83	1570	1.60	375	558	490	2.96	1110	1.96	463	607	503	5.79	2680	0.67	0.51	0.49																													
9	3.35	739	910	3.14	2321	1.59	372	558	490	2.95	1097	2.28	562	744	596	6.09	3419	0.50	0.48	0.52																													
10	4.52	832	970	4.12	3431	1.59	451	724	830	2.78	1253	2.88	679	871	659	6.90	4633	0.54	0.40	0.60																													
12	3.71	780	957	3.40	2654	1.00	15	855	855	0.07	1	3.51	766	955	687	3.47	2655	0.02	0.02	0.98																													
13	3.70	781	960	3.39	2646	1.00	29	848	848	0.13	4	3.33	752	956	697	3.52	2650	0.04	0.04	0.96																													
14	3.71	784	966	3.38	2653	1.00	41	800	799	0.20	8	3.20	742	957	706	3.59	2661	0.05	0.06	0.94																													
16	2.74	700	961	2.51	1754	1.00	11	658	658	0.05	1	2.63	687	959	747	2.56	1755	0.02	0.02	0.98																													
17	2.75	703	968	2.50	1760	1.00	22	876	875	0.10	2	2.54	677	965	755	2.60	1762	0.03	0.04	0.98																													
18	2.74	702	968	2.50	1756	1.00	32	838	837	0.15	5	2.46	665	961	762	2.65	1761	0.05	0.06	0.94																													
20	2.04	578	894	1.94	1120	1.00	8	761	761	0.04	0	1.98	567	892	747	1.98	1120	0.01	0.02	0.98																													
21	2.05	578	888	1.96	1130	1.00	16	789	789	0.08	0	1.94	557	885	745	2.03	1132	0.03	0.04	0.96																													
22	2.04	576	887	1.95	1122	1.00	23	762	762	0.11	3	1.89	545	880	747	2.06	1124	0.04	0.06	0.94																													
23	1.46	395	753	1.44	569	1.00	3	395	365	0.03	0	1.44	387	746	677	1.47	569	0.01	0.02	0.98																													
24	1.47	399	761	1.44	574	1.00	11	482	482	0.09	1	1.42	377	745	680	1.53	575	0.03	0.06	0.94																													
25	1.64	461	795	1.64	755	1.00	15	622	622	0.03	0	1.61	452	792	699	1.67	755	0.01	0.02	0.98																													
26	1.64	463	808	1.62	751	1.00	17	661	661	0.10	2	1.56	438	799	712	1.72	753	0.04	0.06	0.94																													
27	2.32	642	949	2.14	1371	1.00	9	811	811	0.04	0	2.24	629	946	769	2.18	1371	0.01	0.02	0.98																													
28	2.32	643	953	2.13	1372	1.00	26	801	801	0.13	3	2.12	609	944	779	2.26	1375	0.04	0.06	0.94																													
29	2.75	702	965	2.51	1765	1.01	68	712	710	0.37	25	2.22	621	932	760	2.88	1790	0.10	0.13	0.87																													
30	3.69	781	962	3.38	2638	1.01	72	702	699	0.40	29	2.90	706	935	708	3.78	2666	0.09	0.11	0.89																													
150	3.69	781	961	3.38	2636	1.00	0	288	288	0.00	0	3.69	781	961	682	3.38	2636	0.00	0.00	1.00																													
151	2.73	701	968	2.49	1742	1.00	0	288	288	0.00	0	2.73	701	968	747	2.49	1742	0.00	0.00	1.00																													
152	1.99	569	898	1.88	1075	1.00	0	288	288	0.00	0	1.99	569	898	753	1.88	1073	0.00	0.00	1.00																													
153	1.61	461	824	1.58	727	1.00	0	288	288	0.00	0	1.61	461	824	728	1.58	727	0.00	0.00	1.00																													
154	1.48	404	769	1.45	585	1.00	0	288	288	0.00	0	1.48	404	769	694	1.45	585	0.00	0.00	1.00																													

Nomenclature

P_r = Pressure Ratio

V_j = Fully Expanded Jet Velocity

T_t = Total Temperature

T = Static Temperature

W_j = Weight Flow

$$F_j = \text{Ideal Thrust} = \frac{W_j V_j}{g}$$

Super Scripts

o = Outer Stream

i = Inner Stream

Mix = Fully Mixed, Outer and Inner Stream

Subscript

T = Total

Table 7. Measured Aerodynamic Parameters, International System of Units.

CONFIGURATION 2

Test Point	P _o	V _o	T _o	W _o	P _o	V _i	T _i	W _i	F _i	P _r	V _r	T _r	W _r	F _r	V _{i/V_o}	W _{i/W_o}	P _{o/W_o}				
	kg/sec	°K	kg/sec	N	kg/sec	°K	kg/sec	N	kg/sec	°K	m/sec	°K	kg/sec	N							
240	1.74	497	834	722	1.71	850	1.99	413	477	392	2.69	1110	1.84	446	616	520	4.40	1960	0.83	0.01	0.39
241	1.94	557	870	751	1.84	1027	2.52	472	477	366	3.42	1615	2.19	502	622	499	5.26	2642	0.85	0.95	0.35
242	2.15	596	891	730	2.05	1225	3.45	499	416	292	5.00	2495	2.73	527	554	415	7.06	3720	0.84	0.71	0.29
243	2.02	574	893	705	1.92	1101	2.00	417	481	394	2.70	1126	1.97	482	652	541	4.62	2226	0.73	0.58	0.42
244	2.40	654	950	758	2.21	1446	2.50	468	476	366	3.39	1591	2.38	542	663	521	5.60	3937	0.72	0.61	0.39
245	2.70	699	971	751	2.46	1720	3.04	506	467	340	4.17	2107	2.78	577	654	492	6.63	3827	0.72	0.63	0.37
246	2.44	662	959	763	2.23	1480	2.02	416	472	386	2.76	1146	2.17	526	690	558	4.99	2626	0.63	0.55	0.45
247	3.53	753	920	658	3.32	2490	2.48	465	472	364	3.38	1573	2.92	606	694	515	6.70	4071	0.62	0.50	0.50
248	4.06	779	906	622	3.83	2986	3.02	505	468	342	4.13	2084	3.43	637	679	480	7.96	5070	0.65	0.52	0.48
249	2.74	700	961	740	2.51	1757	1.09	137	374	365	0.96	130	2.03	545	799	663	3.47	1867	0.20	0.26	0.72
2108	2.74	698	938	738	2.51	1753	1.23	206	372	350	1.50	310	1.98	514	739	615	4.01	2063	0.30	0.37	0.63
2110	2.76	703	934	741	2.53	1777	1.34	275	473	435	1.61	403	2.04	537	773	639	4.14	2220	0.39	0.39	0.61
2112	2.74	700	962	701	2.51	1755	2.06	422	475	386	2.80	1184	2.34	553	705	559	5.31	2939	0.60	0.53	0.47
2113	2.74	699	959	739	2.51	1757	2.79	492	474	354	3.79	1863	2.68	575	668	506	6.30	3620	0.70	0.60	0.40
2114	2.76	701	961	739	2.52	1769	1.15	171	366	352	1.24	212	2.00	526	765	636	3.76	1961	0.24	0.33	0.67
2115	2.76	703	963	741	2.53	1775	1.63	354	477	414	2.18	769	2.15	541	738	600	4.70	2545	0.50	0.46	0.54
2116	2.74	701	963	742	2.51	1758	1.84	391	475	399	2.50	978	2.23	546	720	576	5.01	2735	0.56	0.50	0.50
2117	2.75	698	956	735	2.52	1762	2.31	449	472	371	3.15	1413	2.45	560	687	537	5.67	3174	0.64	0.56	0.44
284	4.53	799	896	595	4.31	3438	2.98	503	470	344	4.07	2049	3.65	655	689	478	8.38	5487	0.63	0.49	0.51

Table 7. Continued.

CONFIGURATION 3

Test Point	P _r	V ⁰ m/sec	T ⁰ °K	T ⁰ °K	W ⁰ kg/sec	F ⁰ N	V ¹ m/sec	T ¹ °K	T ¹ °K	W ¹ kg/sec	F ¹ N	V ^m m/sec	T ^m °K	T ^m °K	W ^T kg/sec	F ^T N	V _{1/2} ^T m/sec	W _{1/2} ^T kg			
312	3.73	782.	959.	679.	3.41	2671.	1.03	109.	718.	713.	0.20	22.	3.29	745.	946.	692.	3.62	2693.	0.14	0.06	0.94
313	3.72	784.	963.	682.	3.40	2665.	1.07	170.	757.	744.	0.30	51.	3.15	734.	946.	701.	3.70	2717.	0.22	0.08	0.52
314	3.72	782.	959.	679.	3.41	2662.	1.12	208.	703.	683.	0.40	84.	3.07	721.	932.	694.	3.81	2746.	0.27	0.11	0.59
316	2.72	698.	957.	739.	2.50	1739.	1.02	77.	696.	693.	0.15	11.	2.08	662.	933.	745.	2.65	1750.	0.11	0.06	0.54
317	2.72	698.	957.	738.	2.50	1741.	1.03	118.	712.	706.	0.22	26.	2.40	649.	937.	747.	2.72	1767.	0.17	0.08	0.52
318	2.73	698.	957.	736.	2.51	1743.	1.06	150.	682.	671.	0.30	44.	2.35	638.	926.	743.	2.80	1787.	0.22	0.11	0.59
320	2.04	577.	896.	745.	1.94	1121.	1.01	51.	580.	579.	0.12	6.	1.91	549.	878.	742.	2.05	1127.	0.09	0.06	0.94
321	2.04	577.	892.	742.	1.94	1119.	1.02	78.	593.	590.	0.17	14.	1.87	536.	868.	738.	2.11	1133.	0.14	0.08	0.52
322	2.04	576.	887.	737.	1.95	1123.	1.03	103.	569.	564.	0.23	24.	1.84	526.	855.	730.	2.18	1147.	0.18	0.11	0.89
323	1.46	369.	658.	594.	1.54	570.	1.00	41.	612.	549.	0.09	4.	1.41	351.	656.	598.	1.63	573.	0.11	0.05	0.95
324	1.63	460.	804.	708.	1.62	743.	1.01	51.	573.	712.	0.09	5.	1.56	438.	799.	712.	1.71	748.	0.11	0.05	0.95
325	1.62	456.	799.	704.	1.61	735.	1.02	90.	635.	631.	0.19	17.	1.51	418.	782.	702.	1.80	752.	0.20	0.10	0.90
327	2.34	646.	951.	764.	2.15	1390.	1.01	69.	727.	725.	0.13	9.	2.16	614.	939.	770.	2.28	1399.	0.11	0.06	0.54
328	2.34	653.	953.	762.	2.20	1434.	1.04	127.	680.	673.	0.25	32.	2.10	599.	925.	764.	2.45	1466.	0.20	0.10	0.90
329	2.72	695.	954.	736.	2.50	1740.	1.11	192.	620.	603.	0.42	81.	2.29	623.	906.	731.	2.92	1821.	0.28	0.14	0.56
330	3.73	781.	956.	678.	3.43	2678.	1.15	223.	645.	622.	0.47	106.	3.05	713.	918.	685.	3.40	2784.	0.29	0.12	0.58
3150	3.73	783.	959.	678.	3.42	2676.	1.00	0.	288.	288.	0.00	0.	3.73	783.	959.	678.	3.42	2676.	0.00	0.00	1.00
3151	2.73	698.	961.	741.	2.50	1744.	1.00	0.	288.	288.	0.00	0.	2.73	698.	961.	741.	2.50	1744.	0.00	0.00	1.00
3152	1.99	568.	889.	744.	1.90	1078.	1.00	0.	288.	288.	0.00	0.	1.99	568.	889.	744.	1.90	1078.	0.00	0.00	1.00
340	1.76	500.	832.	718.	1.73	867.	1.00	0.	288.	288.	0.00	0.	1.73	500.	832.	718.	1.73	867.	0.00	0.00	1.00
341	1.95	560.	890.	749.	1.86	1043.	1.00	0.	288.	288.	0.00	0.	1.86	560.	890.	749.	1.86	1043.	0.00	0.00	1.00
342	2.17	609.	918.	752.	2.04	1240.	1.00	0.	288.	288.	0.00	0.	2.04	609.	918.	752.	2.04	1240.	0.00	0.00	1.00
343	2.03	577.	896.	746.	1.93	1114.	1.00	0.	288.	288.	0.00	0.	1.93	577.	896.	746.	1.93	1114.	0.00	0.00	1.00
344	2.37	653.	957.	766.	2.18	1422.	1.00	0.	288.	288.	0.00	0.	2.18	653.	957.	766.	2.18	1422.	0.00	0.00	1.00
345	2.73	701.	968.	746.	2.49	1749.	1.00	0.	288.	288.	0.00	0.	2.49	701.	968.	746.	2.49	1749.	0.00	0.00	1.00
346	2.44	664.	967.	769.	2.22	1477.	1.00	0.	288.	288.	0.00	0.	2.22	664.	967.	769.	2.22	1477.	0.00	0.00	1.00
347	3.29	750.	959.	702.	3.02	2293.	1.00	0.	288.	288.	0.00	0.	3.02	750.	959.	702.	3.02	2293.	0.00	0.00	1.00
348	3.80	782.	947.	666.	3.50	2738.	1.00	0.	288.	288.	0.00	0.	3.50	782.	947.	666.	3.50	2738.	0.00	0.00	1.00
3107	2.78	707.	967.	742.	2.54	1794.	1.00	0.	288.	288.	0.00	0.	2.54	707.	967.	742.	2.54	1794.	0.00	0.00	1.00
3108	2.78	703.	963.	741.	2.52	1773.	1.00	0.	288.	288.	0.00	0.	2.52	703.	963.	741.	2.52	1773.	0.00	0.00	1.00
3110	2.73	699.	962.	741.	2.50	1750.	1.00	0.	288.	288.	0.00	0.	2.50	699.	962.	741.	2.50	1750.	0.00	0.00	1.00
3112	2.78	704.	963.	739.	2.54	1788.	1.00	0.	288.	288.	0.00	0.	2.54	704.	963.	739.	2.54	1788.	0.00	0.00	1.00
3113	2.73	701.	968.	746.	2.49	1749.	1.00	0.	288.	288.	0.00	0.	2.49	701.	968.	746.	2.49	1749.	0.00	0.00	1.00
3114	2.78	704.	963.	740.	2.54	1788.	1.00	0.	288.	288.	0.00	0.	2.54	704.	963.	740.	2.54	1788.	0.00	0.00	1.00
3115	2.72	701.	971.	750.	2.48	1736.	1.00	0.	288.	288.	0.00	0.	2.48	701.	971.	750.	2.48	1736.	0.00	0.00	1.00

Table 7. Continued.

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• CONFIGURATION 4

Test Point	P _x	V ₀ w/sec	T _T °K	T ₀ °K	W ₀ kg/sec	P ₀ N	V ₁ m/sec	T ₁ °K	W ₁ kg/sec	P ₁ N	V ₁ m/sec	T ₁ °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec	T _T °K	W _T kg/sec	P _T N	V _T m/sec
440	1.74	498.	834.	722.	1.71	852.	2.02	412.	380.	2.77	1141.	1.86	405.	606.	4.48	1994.	0.83	0.62	0.34																												
441	1.98	570.	904.	759.	1.87	1066.	2.44	464.	340.	3.40	1577.	2.19	501.	622.	5.27	2643.	0.81	0.65	0.35																												
442	2.18	606.	906.	761.	2.06	1246.	3.05	506.	340.	4.17	2111.	2.56	539.	613.	6.23	3357.	0.84	0.67	0.33																												
443	2.04	581.	903.	751.	1.93	1123.	2.08	422.	381.	2.80	1195.	2.02	486.	645.	4.77	2318.	0.73	0.59	0.41																												
444	2.35	658.	964.	770.	2.19	1439.	2.50	465.	359.	3.42	1589.	2.37	500.	661.	5.61	3024.	0.71	0.61	0.39																												
445	2.60	701.	946.	724.	2.59	1813.	3.05	509.	343.	4.16	2116.	2.84	592.	654.	6.75	3930.	0.73	0.62	0.38																												
446	2.43	668.	981.	761.	2.20	1469.	1.99	410.	386.	2.72	1115.	2.15	526.	698.	4.92	2584.	0.61	0.55	0.45																												
447	3.65	755.	907.	643.	3.44	2599.	2.53	475.	369.	3.41	1620.	3.01	616.	695.	6.85	4719.	0.63	0.50	0.50																												
448	4.03	784.	920.	634.	3.78	2959.	3.02	495.	329.	4.21	2083.	3.39	632.	673.	7.98	5042.	0.63	0.53	0.47																												
4107	2.68	697.	973.	754.	2.44	1699.	1.10	146.	395.	0.95	138.	1.99	543.	814.	3.38	1837.	0.21	0.28	0.72																												
4108	2.68	697.	973.	755.	2.44	1697.	1.26	217.	340.	1.63	354.	1.94	505.	729.	4.06	2051.	0.31	0.40	0.60																												
4110	2.75	703.	968.	746.	2.51	1762.	1.34	277.	472.	1.63	450.	2.03	535.	773.	4.13	2212.	0.39	0.39	0.61																												
4112	2.76	710.	983.	757.	2.50	1776.	2.05	419.	471.	2.79	1170.	2.33	557.	713.	5.29	2946.	0.59	0.53	0.47																												
4113	2.75	705.	972.	748.	2.50	1765.	2.79	486.	348.	3.82	1864.	2.67	574.	667.	6.32	3628.	0.69	0.60	0.50																												
4114	2.67	697.	975.	757.	2.43	1695.	1.15	173.	382.	1.20	208.	1.95	524.	778.	3.63	1903.	0.25	0.33	0.67																												
4115	2.84	710.	962.	734.	2.60	1844.	1.63	348.	405.	2.19	764.	2.18	544.	734.	4.79	2608.	0.49	0.46	0.54																												
4116	2.76	697.	948.	728.	2.55	1777.	1.86	385.	382.	2.57	992.	2.25	541.	701.	5.12	2769.	0.55	0.50	0.50																												
4118	2.69	699.	974.	755.	2.45	1709.	1.05	108.	436.	0.64	69.	2.09	577.	863.	3.08	1777.	0.15	0.21	0.79																												
484	4.53	799.	896.	---	4.30	3434.	2.98	503.	410.	4.08	2046.	---	655.	689.	8.38	5480.	0.63	0.49	0.51																												

Table 7. Continued.

• CONFIGURATION 6

Test Point	P _r ^o	V _o ^o m/sec	T _T ^o °K	T _T ^o °K	W _o ^o kg/sec	P _r ^o N	V _T ^o m/sec	T _T ^o °K	T _T ^o °K	W _T ^o kg/sec	P _r ^o N	V _T ^o m/sec	T _T ^o °K	T _T ^o °K	W _T ^o kg/sec	P _r ^o N	V _{1/N^o} V _{1/N^o} V _{1/N^o} V _{1/N^o}	
640	1.72	493.	834.	724.	1.23	605.	1.97	409.	473.	390.	2.68	1097.	1.85	436.	3.91	1702.	0.83	0.69
641	1.97	557.	871.	731.	1.38	766.	2.51	466.	468.	360.	3.43	1600.	2.25	492.	4.81	2306.	0.84	0.71
642	2.18	596.	874.	713.	1.52	907.	2.98	504.	472.	346.	4.06	2045.	2.61	529.	5.58	2952.	0.85	0.73
643	2.04	583.	908.	755.	1.40	816.	2.01	416.	477.	391.	2.72	1133.	1.99	473.	4.12	1949.	0.71	0.66
644	2.40	655.	947.	755.	1.61	1048.	2.50	467.	472.	363.	3.41	1592.	2.39	527.	5.01	2640.	0.72	0.69
645	2.76	701.	958.	736.	1.84	1288.	2.99	496.	456.	334.	4.14	2056.	2.80	559.	5.98	3344.	0.71	0.69
646	2.40	659.	964.	770.	1.59	1048.	2.02	422.	487.	398.	2.72	1147.	2.13	510.	4.31	2195.	0.64	0.63
647	3.62	760.	922.	656.	2.45	1864.	2.50	468.	474.	365.	3.39	1587.	2.89	591.	5.84	3451.	0.62	0.58
648	4.00	782.	919.	635.	2.72	2125.	3.03	509.	476.	347.	4.10	2090.	3.33	618.	6.82	4215.	0.65	0.60
649	4.59	805.	903.	599.	3.14	2529.	3.02	511.	479.	349.	4.09	2086.	3.58	638.	7.23	4615.	0.63	0.57
6107	2.73	701.	968.	747.	1.80	1264.	1.10	139.	376.	366.	0.97	135.	1.88	504.	7.61.	643.	0.30	0.40
6108	2.73	700.	968.	747.	1.80	1264.	1.18	210.	472.	450.	1.19	251.	1.87	506.	7.61.	643.	0.30	0.40
6110	2.73	700.	966.	746.	1.80	1262.	1.36	262.	464.	425.	1.69	476.	1.91	497.	7.23.	607.	0.40	0.48
6112	2.72	698.	962.	742.	1.81	1261.	2.07	426.	482.	392.	2.79	1189.	2.28	533.	4.60	2450.	0.61	0.61
6114	2.75	705.	965.	744.	1.81	1266.	2.77	489.	471.	352.	3.78	1850.	2.67	557.	5.59	3116.	0.70	0.68
6115	2.73	700.	974.	750.	1.81	1276.	1.15	170.	362.	347.	1.25	212.	1.86	487.	3.06	1487.	0.24	0.41
6116	2.73	699.	965.	745.	1.81	1263.	1.64	355.	475.	412.	2.20	782.	2.05	511.	4.00	2044.	0.51	0.55
6117	2.73	699.	963.	743.	1.81	1263.	1.84	394.	484.	407.	2.47	971.	2.16	523.	4.27	2234.	0.56	0.58
6150	3.59	777.	962.	741.	1.81	1266.	2.32	453.	478.	376.	3.14	1425.	2.42	655.	4.96	2692.	0.65	0.63
6151	2.73	701.	953.	676.	2.46	1909.	1.00	0.	288.	288.	0.00	0.	3.69	777.	2.46	1909.	0.00	0.00
6152	1.95	565.	967.	745.	1.81	1268.	1.00	0.	288.	288.	0.00	0.	2.73	701.	1.81	1268.	0.00	0.00
			901.	758.	1.34	760.	1.00	0.	268.	288.	0.00	0.	1.96	565.	1.34	760.	0.00	0.00

Table 7. Continued.

5.0 ACOUSTIC DATA SCALING AND NORMALIZATION

Acoustic measurements were made on seven different configurations each having a different geometry as defined in Section 1.0. The total flow area (inner stream plus outer stream) changed from model to model along with the ratio of the outer to inner stream areas. Therefore, in order to make comparisons on common sizes (as presented in Section 7.0), all acoustic data was scaled to both a common model size and a larger engine size. The model size was chosen as 29.399 in.² which is the largest total area of any model tested. The data was also scaled to 513 in.², which is the largest area to which all test points could be scaled because of a limit on the ratio of the scaled model area of 64. At this scale factor there is a nine band 1/3-OB shift which shifts the 80-kHz data to 10 kHz.

For the test points which investigated the effect of low inner flow, the outer stream area was scaled to both 29.399 in.² and 513 in.². For the low inner flow test points the thrust generated by the outer stream is dominant over that from the inner stream; therefore, the scaling was done on the basis of the outer stream area alone. For all other test points the scaling was done on the basis of total flow area since both streams contribute to the engine thrust. This scaling technique results in each configuration having a different scaled thrust level for given inner and outer stream aerodynamic conditions (V , T_T , P_R) because the area ratio changes from configuration to configuration. Therefore, it was necessary to apply an additional normalization to adjust all data points to a common-reference thrust level when configurations were compared to isolate geometry effects. This was accomplished by applying a factor $[-10 \log F/F_{REF}]$ to all sound pressure levels. In effect this adjustment physically represents an increase or decrease in the total weight flow (by means of an area change) to obtain a given thrust level with the pressure ratios, total temperatures, and velocities defined by that particular test point. For model size comparisons an additional factor $[-10 \log A_T/R^2]$ was applied to the acoustic data to present the data on a unit nozzle area and unit radius arc basis. Note that the air attenuation from the unit radius to the measured arc distance (12.2 m) was not added back in the acoustic data. For the model size comparisons the SPL normalization was as follows:

$$\text{SPL}_{NORM} = \text{SPL} - 10 \log A_T/R^2 - 10 \log (F_T/A_T)/(F/A)_{REF}$$

where:

$(F/A)_{REF} = 10.0 \text{ lbf/in.}^2$ was chosen as the reference thrust per unit area.

$$A_T = A^i + A^o = \text{Total Model Area for High Inner Flow Cases}$$

$$A_T = A^o = \text{Outer Stream Area for Low Inner Flow Cases (Low Inner Flow Cases Being Those Where } W_i/W_{t_i} \leq 0.14).$$

$$F_T = \frac{w^i V^i}{g} + \frac{w^o V^o}{g} = \text{Total Ideal Thrust}$$

For the full scale (513 in.²) acoustic results only a thrust normalization was used. The perceived noise level normalization was therefore:

$$PNL_{NORM} = PNL - 10 \log F_T/F_{REF}$$

where $F_{Ref} = 5130 \text{ lbf}$

This reference thrust was derived as follows:

$$F_{REF}/A_{REF} = 10.0 \text{ lbf/in.}^2$$

$$A_{REF} = 513 \text{ in.}^2$$

therefore, $F_{REF} = 5130 \text{ lbf.}$

6.0 DETAILED TABLES OF ACOUSTIC TEST RESULTS

In this section the measured acoustic farfield data are presented for each test point defined in Section 3.0. The acoustic farfield data consists of the 1/3 octave band sound pressure levels at angles to the inlet from 40° through 160° in 10° increments. The power level spectra is also presented along with the calculated OASPL and PNL at each angular location.

Three different tabulations of the acoustic farfield data are presented for each acoustic test point. The data is presented for the following sizes and extrapolated distances:

	<u>Size</u>	<u>Acoustic Range</u>
1.	Actual Model Size (Varies from Configuration to Configuration)	12.19 m (40 ft) Arc
2.	0.33 m ² (513 in. ²)	45.72 m (150 ft) Arc
3.	0.33 m ² (513 in. ²)	731.5 m (2400 ft) Sideline

An exception to the full-scale data being presented at 513 in.² is made for Runs 1-10 on Configuration 1 which were scaled to 1812 in.² for comparison with data from report NASA CR-135239.

The measured acoustic farfield data for all the test points defined in the test matrix may be located knowing the test point number and the configuration number. There are eight sub-sections, one for each configuration (including the conical) containing the measured acoustic data. A description of the three types of far-field acoustic data sheets is presented in Figures 24 through 26 with all the key parameters defined. These sheets are self-explanatory with the exception of the model scale size. For those test conditions with low amounts of inner flow ($w^i/w_T \leq 0.14$), the size given corresponds to the outer stream area alone. For the high amounts of inner flow ($w^i/w_T > 0.14$), the size corresponds to the sum of the outer and inner stream areas.

In the data handling process there were instances when the acoustic data at a given microphone location were incorrect by a multiple of 10 dB. The microphone positions where this occurred are noted with an asterisk and the data are presented uncorrected.

The "Purpose of Run" descriptions are identified as follows:

- REPEATS - match points with data from NASA CR-135239 (Conf. 1)
- LOWFLWC - low inner flow condition ($w^i/w_T < 0.14$)
- ZEROFLW - zero inner flow condition ($w^i/w_T = 0$)
- HIGHFLW - high inner flow condition ($w^i/w_T > 0.14$)
- VELDEPN - inner flow velocity variation
- CONSTA - outer flow static temperature held constant
- TEMPDEP - outer flow total temperature variation
- REPEATH - repeat point for this program (Conf. 7)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANs)
 PROC. DATE - MONTH 8 DAY 25 HR. 17.4
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.
 FREQ. (C.70)(C.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15)(3.30)(3.46)(3.63)(3.81)(4.00)(4.20)(4.40)(4.60)(4.80)(5.00) PUL
 50

NO EGA 63
 RDG. NO. 0
 RADIAL 40 FT. 100
 (12. M) 125
 VEHICLE CELL41 169
 CONFIG NC52 200
 LOC C41 ANECH CH 250
 DATE 06-07-76 315
 RUN CONFIREPEATS 500
 TAPE X00020 500
 BAR 29.4 HG 630
 (99381. N/M2) 800
 TAMB 57 DEG F 1000
 (287. DEG K) 1250
 TWET 55 DEG F 1600
 (286. DEG K) 2000
 MACTIC 26 GM/M3 2500
 (.01026 KG/M3) 3150
 FREQ. SHIFT 4000
 JET 5000
 DIAMETER RATIO 6300
 DF/DM 1.00 8000
 10000
 12500
 16000
 20000
 25000
 31500
 40000
 50000
 63000
 80000

1/3-Octave-Band
 Sound Power Level
 Ref: 10⁻¹³ Watts

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Conditions Data Were Taken at
 Prior to Correction to Standard Day

Scale Factor
 Frequency Shift Required for Given Scale Factor

CONFIGURATION	TEST POINT	ACOUSTIC RANGE	SIZE*
OVERALL MEASURED			
OVERALL CALCULATED	88.2	90.4	91.3
PWdB	100.8	102.6	103.7
	92.2	93.6	94.3
	95.5	96.8	98.5
	100.0	102.4	104.0
	104.7	109.2	110.9
	112.3	113.6	113.5
	112.6		

Perceived Noise Level
 Overall Sound Pressure Level

Overall Sound Pressure Level 140.5

* Area of outer stream alone used for low inner flow cases.
 Area of inner and outer streams used for high inner flow cases.

ANCHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE*

Figure 24. Description of the Model Scale Far-Field Acoustic Data Sheets.

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 25 HR. 17.0
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. (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) PwL

1/3-Octave-Band
 Sound Power Level
 Ref: 10-13 Watts

NO EGA 63 No Extra Ground Attenuation
 RDG. NO. 80 Not Used
 RADIAL 150. FT. 100
 (46. M) 125

VEHICLE CELL41-160
 CONFIG NC52 200
 LOC C41 ANECH CH 250
 DATE 06-07-76 315
 RUN CONFIREPEATS 400
 TAPE X00020 500
 BAR 29.4 HG 630
 (99381. N/M2) 800
 TAMB 57. DEG F 1000
 (287. DEG K) 1250
 TWET 55. DEG F 1600
 (286. DEG K) 2000
 HACT10.26 GM/M3 2500
 (.01026 KG/M3) 3150

Conditions Data Were Taken at
 Prior to Correction to Standard Day

Model Identification and Purpose of Run
 Data Point Number
 Barometer
 Dry Bulb Temperature
 Wet Bulb Temperature
 Not Used
 Frequency Shift Required for Given Scale Factor
 Scale Factor

OVERALL CALCULATED 94.6 97.3 97.9 98.9 100.0 100.8 101.9 103.3 105.0 106.2 108.1 108.9 108.6
 PHDB 103.3 110.2 109.0 110.3 111.3 111.5 112.9 114.1 116.4 114.4 113.3 112.8 112.4

Perceived Noise Level
 Overall Sound Pressure Level

Overall Sound Pressure Level
 157.4

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE*

* Area of outer stream alone used for low inner flow cases.
 Area of inner and outer streams used for high inner flow cases.

Figure 25. Description of the 150-Ft Arc Full-Size Far-Field Acoustic Data Sheet.

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

FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
	(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.	0.	0.	0.	0.	0.	0.	0.	0.	0.

50 No Extra Ground Attenuation

1/3-Octave-Band
 Sound Power Level
 Ref: 10-13 Watts

NO EGA
 SIDELINE 2400. FT.
 (731.52 M)

NFA (1. RPM
 NFK (1. RPM
 NFD (0. RAD/SEC)
 (7500. RPM
 (785. RAD/SEC)
 AIRFLOW RATIO
 WF/W 8.00

Facility
 Data Reduction Request Number
 Test Location
 Date of Test Run
 Model Identification and Purpose of Run
 Data Point Number

VEHICLE CELL41
 CONFIG MC52--
 LOC C41 ANECH CH
 DATE 06-07-76
 RUN CONF1REPEATS-2500
 TAPE X00020
 FAN TIP SPEED 4000
 FT/SEC 5000
 6300
 8000
 10000

OVERALL CALCULATED	65.0	68.0	70.6	72.1	73.8	75.0	76.0	77.0	77.8	78.4	79.1	77.7	74.0
PNDB	67.2	72.3	74.7	76.7	78.9	79.5	80.6	81.5	82.3	81.5	79.9	76.1	69.1

Perceived Noise Level
 Overall Sound Pressure Level

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE *

* Area of outer stream alone used for low inner flow cases.
 Area of inner and outer streams used for high inner flow cases.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

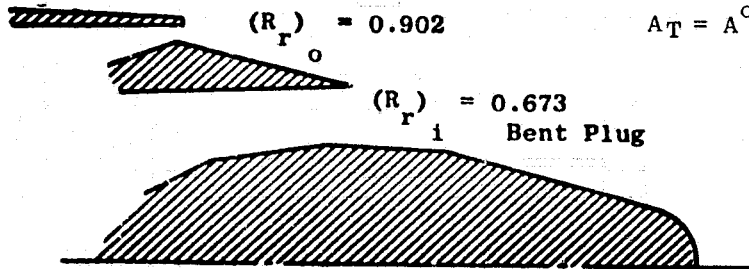
Figure 26. Description of the 2400-Ft Sideline Full-Size Far-Field Acoustic Data Sheet.

6.1 Measured Acoustic Data

- Coannular Configuration 1

$$A^o = 11.057 \text{ in.}^2$$

$$A_T = A^o + A^i = 28.305 \text{ in.}^2$$



Where:

R_r = Radius Ratio

A = Area

Subscripts: o = Outer

i = Inner

t = Outer + Inner

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

FREQ.	SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)				PROC. DATE - MONTH 8 DAY 25 HR. 17.0
	40.	50.	60.	70.	
50	79.8	81.6	84.1	84.6	140.5
63	81.1	82.1	83.6	84.7	146.4
80	82.0	83.0	84.2	85.0	146.3
100	82.7	84.5	85.3	86.0	146.3
125	84.1	84.8	85.3	86.1	145.6
160	83.7	83.7	86.4	86.0	145.6
200	84.0	84.8	85.6	86.6	145.2
250	83.6	84.9	85.9	86.1	144.8
315	83.2	84.0	85.5	86.3	144.8
400	82.7	83.5	85.3	85.8	143.7
500	81.8	82.6	84.4	84.4	143.5
630	81.2	83.0	83.5	84.6	142.1
800	79.9	82.0	82.8	84.3	141.2
1000	79.4	80.5	81.3	83.3	140.7
1250	77.8	80.5	81.0	82.3	140.2
1600	75.7	78.7	79.3	81.5	139.4
2000	74.7	78.0	78.2	81.4	137.9
2500	72.7	76.2	77.7	79.8	137.6
3150	72.6	76.2	77.7	79.8	137.6
4000	70.8	77.2	77.2	79.1	138.1
5000	68.8	75.5	75.7	78.7	135.0
6300	66.2	73.2	73.8	78.5	133.4
8000	66.3	70.4	74.4	79.3	131.7
10000	70.9	74.9	79.9	85.5	132.6
OVERALL CALCULATED					139.2
PNDB 101.4 105.7 106.1 107.7 108.9 109.0 110.3 110.8 113.4 112.4 111.7 114.5 114.2					156.5

RDG. NO. 0
RADIAL 150. FT.
(45. M)
VEHICLE CELL41
CONFIG NC52
LOC C41 ANECH CH
DATE 06-07-76
RUN CONFIREPEATS
TAPE X00010
BAR 29.4 HG.
(99381. N/M2)
TAMB 57. DEG F
(287. DEG K)
TWET 54. DEG F
(286. DEG K)
HACT10.12 GM/M3
(.01012 KG/M3)
FREQ. SHIFT 9
DIAMETER RATIO
DF/DH 8.00

NO EGA
RDG. NO. 0
RADIAL 150. FT.
(45. M)
VEHICLE CELL41
CONFIG NC52
LOC C41 ANECH CH
DATE 06-07-76
RUN CONFIREPEATS
TAPE X00010
BAR 29.4 HG.
(99381. N/M2)
TAMB 57. DEG F
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HACT10.12 GM/M3
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FREQ. SHIFT 9
DIAMETER RATIO
DF/DH 8.00

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(286. DEG K)
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DF/DH 8.00

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(286. DEG K)
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DIAMETER RATIO
DF/DH 8.00

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DF/DH 8.00

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LOC C41 ANECH CH
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TAPE X00010
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(99381. N/M2)
TAMB 57. DEG F
(287. DEG K)
TWET 54. DEG F
(286. DEG K)
HACT10.12 GM/M3
(.01012 KG/M3)
FREQ. SHIFT 9
DIAMETER RATIO
DF/DH 8.00

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 1
ACOUSTIC RANGE 45.7m(150ft.) ARC
SIZE FULL-1.17m²(1812in²)

NO EGA	SIDELINE 2400. FT. (731.52 M)	MFA (1. RPM)	MFK (1. RPM)	MFD (7500. RPM)	AIRFLOW RATIO WF/WM 8.00	VEHICLE CONFIG	LOC C41 ANECH CH	DATE 06-07-76	RUN CONF1REPEATS	TAPE X00010	FAN TIP SPEED FT/SEC	FULL SIZE SOUND PRESSURE			LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)			ANGLE FROM INLET IN DEGREES (AND RADIAN)	100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0.
												40. 50. 60. 70. 80.	90. 100. 110. 120. 130. 140. 150.	160. 170. 180. 190. 200. 210. 220. 230. 240.						
50	51.6	54.9	58.5	59.8	60.8	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4		
63	52.9	55.5	58.1	59.8	60.8	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4		
80	53.6	56.2	58.6	60.1	61.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1		
100	54.3	57.7	59.6	61.1	62.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6		
125	55.5	57.9	59.5	61.1	62.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1		
160	54.9	56.6	60.5	60.8	62.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8		
200	55.1	57.5	59.7	61.3	63.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3		
250	54.4	57.4	59.6	60.6	61.9	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5		
315	53.6	56.2	59.0	60.6	61.9	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5		
400	52.7	55.4	58.4	59.8	61.6	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1		
500	51.3	54.0	57.1	58.0	59.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6		
630	50.0	53.9	55.8	57.7	58.8	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4		
800	47.8	52.1	54.4	56.8	58.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5		
1000	46.2	49.7	52.1	55.1	57.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6		
1250	43.3	48.5	50.9	53.2	56.4	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2		
1600	39.2	45.2	47.7	51.2	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0		
2000	35.9	42.6	44.9	49.5	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1		
2500	33.0	38.0	41.9	45.6	49.5	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3		
3150	25.0	38.2	39.7	42.6	44.6	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5		
4000	15.1	27.7	31.6	35.9	38.4	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8		
5000	8.5	20.1	26.7	32.3	33.8	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1		
6300		6.4	14.7	22.9	23.6	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1		
8000				9.6	11.4	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9		
10000																				
OVERALL CALCULATED	64.6	67.4	70.0	71.4	73.1	74.2	75.2	76.1	76.9	77.4	78.1	77.3	73.8							
PNDB	66.5	70.5	73.4	75.4	77.4	78.2	79.3	79.9	80.8	80.1	78.5	75.6	68.4							

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT | ACOUSTIC RANGE | SIZE
 | | 731.5m(2400ft.) SIDELINE | FULL-1.17m²(1812in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

FREQ. 50	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	PROC. DATE - MONTH 8 DAY 25 HR. 17.4			
																(0.70)	(0.87)		
NO EGA															79.2	80.2	84.7	84.9	87.7
63	69.6	78.4	75.2	77.0	77.8	77.4	78.3	78.0	79.2	80.2	84.7	84.9	87.7	122.3					
80	69.8	72.9	73.9	75.9	76.7	77.9	78.5	78.7	77.6	77.9	84.1	86.3	88.1	122.1					
100	69.1	71.7	74.2	74.7	75.8	76.2	76.5	78.0	78.7	82.0	84.2	86.9	90.2	122.8					
125	71.0	73.3	75.3	76.8	77.3	78.7	81.1	82.5	83.6	88.1	93.3	95.0		127.2					
160	71.3	74.8	75.3	75.9	77.0	78.6	80.5	81.1	83.1	85.7	90.4	93.0	95.6	127.9					
200	72.7	75.4	76.2	78.0	79.6	79.7	81.3	82.7	84.7	86.5	90.2	95.1	96.9	129.2					
250	73.7	75.0	77.5	77.7	78.8	80.7	82.8	82.5	85.0	87.3	91.5	94.2	95.7	128.8					
315	74.5	75.8	77.5	77.8	79.2	81.0	82.2	83.6	84.8	88.1	91.6	94.2	95.3	128.9					
400	75.6	77.4	77.9	79.4	79.8	81.1	83.0	83.9	86.1	88.0	91.4	94.1	94.1	128.8					
500	76.6	77.9	79.7	79.9	81.0	82.7	83.5	84.7	86.7	88.7	91.9	93.4	92.2	128.7					
630	77.7	78.2	79.5	80.3	81.1	82.5	83.9	85.3	86.5	88.6	92.0	91.2	90.2	129.2					
800	77.3	77.8	79.8	80.1	80.9	82.6	83.7	85.4	86.8	88.9	91.3	91.0	88.3	127.9					
1000	77.4	78.7	79.4	80.2	82.0	82.7	83.3	84.5	85.9	88.5	90.2	89.6	87.2	127.2					
1250	77.4	78.5	80.0	80.5	81.8	82.2	84.1	85.5	86.2	88.3	89.5	88.4	85.5	127.0					
1600	76.7	78.5	79.6	80.1	82.2	81.8	82.9	84.9	86.8	87.4	88.4	87.0	84.1	126.4					
2000	75.5	76.8	78.1	78.9	80.2	81.3	82.9	84.4	85.6	87.2	86.4	85.8	82.6	126.6					
2500	75.1	76.5	78.0	78.6	79.1	80.7	81.8	83.8	84.7	85.8	86.0	84.4	82.7	126.8					
3150	73.5	76.3	77.1	78.6	79.7	80.8	81.4	82.6	84.6	84.7	84.1	83.5	82.5	125.6					
4000	72.5	74.6	74.9	77.4	79.0	80.1	81.2	82.2	83.4	83.1	81.2	81.1	80.1	125.6					
5000	70.9	74.3	74.7	76.6	78.5	78.3	80.0	81.4	83.4	83.1	81.2	79.9	79.1	121.7					
6300	68.4	73.1	72.8	75.0	76.5	77.4	77.9	79.7	81.0	81.2	78.9	78.9	78.3	121.3					
8000	66.7	71.8	72.0	74.2	75.9	76.0	77.2	78.2	80.5	79.0	77.1	78.4	78.3	120.6					
10000	64.3	70.6	70.5	72.6	73.4	75.0	76.5	76.8	79.5	75.8	73.2	72.6	74.2	120.6					
12500	66.4	76.7	73.4	74.5	75.7	75.4	77.8	79.2	82.7	76.9	73.2	70.0	73.0	124.0					
16000	62.0	72.4	69.9	70.3	70.8	70.0	70.3	72.5	73.7	69.6	67.3	67.6	69.0	119.8					
20000	55.3	66.7	65.9	67.1	66.7	65.4	66.2	66.4	64.6	62.4	60.9	62.9	62.9	116.0					
25000	48.7	59.9	59.0	61.7	60.0	60.1	60.1	59.7	60.5	58.9	55.9	52.9	54.9	116.0					
31500	42.2	53.8	52.5	56.1	55.0	55.1	55.0	54.9	52.6	53.0	52.7	48.0	45.5	116.3					
40000	37.9	50.9	48.4	53.2	51.8	52.2	51.6	46.7	47.9	51.0	41.3	36.1	39.5	122.2					
OVERALL MEASURED																			
OVERALL CALCULATED	88.2	90.4	91.3	92.2	93.4	94.3	95.5	96.8	98.5	100.0	102.4	104.0	104.7	160.5					
PADB	100.8	102.6	103.7	104.5	106.0	106.5	107.7	109.2	110.9	112.3	113.6	113.5	112.6						

ANCHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 1 TEST POINT 2
 ACOUSTIC RANGE 12.2m(40ft.) ARC
 SIZE MODEL-183cm²(28.3in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO.	NO EGA	VEHICLE	CONFIG	LOC	DATE	RUN	TAPE	BAR	TAMB	TWT	HACT	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIAN)					PWL
													40.	50.	60.	70.	80.	
50	30.3	81.6	86.1	84.3	85.4	87.3	87.4	89.1	91.6	93.9	98.1	103.8	102.3	146.9				
63	81.1	82.4	84.1	84.4	85.8	87.6	88.8	90.2	91.4	94.7	98.2	100.8	101.9	147.0				
80	82.2	84.0	86.5	86.0	86.4	87.7	89.6	90.5	92.7	94.6	98.0	100.7	100.7	146.9				
100	83.2	84.5	86.3	86.5	87.6	89.3	90.1	91.3	93.3	95.3	98.5	100.0	98.8	146.8				
125	84.3	84.8	86.1	86.9	87.7	89.1	90.5	91.9	93.1	95.2	98.6	97.6	96.8	146.2				
160	83.9	84.4	86.4	86.7	87.6	89.2	90.3	92.0	93.4	95.5	98.0	97.6	94.9	146.0				
200	84.0	85.3	86.1	86.8	88.7	89.3	89.9	91.1	92.6	95.1	96.8	96.3	93.8	145.3				
250	84.1	85.1	86.6	87.1	88.5	88.9	90.7	92.1	92.9	94.9	96.1	95.1	92.1	145.1				
315	83.7	85.0	87.0	87.0	87.9	89.6	91.5	93.5	94.1	95.0	93.7	90.7	90.7	144.5				
400	83.5	85.2	86.3	86.8	88.9	88.5	89.9	91.5	93.5	94.9	95.3	93.5	90.7	144.7				
500	82.3	83.6	84.9	85.6	87.0	88.1	89.7	91.1	92.4	94.0	93.2	92.6	89.3	143.6				
630	81.9	83.3	84.8	85.6	87.5	88.5	89.6	91.5	92.6	91.5	92.6	91.2	89.5	142.9				
800	80.4	83.2	84.0	85.5	86.6	87.7	88.3	89.5	91.5	91.6	91.0	90.4	89.5	142.3				
1000	79.6	81.7	82.0	84.5	86.1	87.2	88.4	89.3	90.8	91.2	90.1	89.2	88.2	141.7				
1250	78.3	81.7	82.0	84.0	85.8	87.3	88.8	90.8	90.8	90.5	88.6	88.5	87.4	141.1				
1600	76.2	80.9	80.6	82.8	84.3	85.2	85.7	87.5	88.8	89.0	87.5	86.8	86.9	139.8				
2000	75.2	80.2	80.5	82.6	84.4	84.5	85.7	86.6	89.0	87.5	85.6	86.8	86.7	139.3				
2500	73.6	80.0	79.9	81.7	84.7	84.3	85.8	86.2	88.9	85.2	82.6	82.0	83.6	138.6				
3150	77.0	87.4	84.1	85.1	86.3	86.0	88.4	89.8	93.3	87.5	83.8	80.6	83.6	142.1				
4000	74.5	84.9	82.4	82.8	83.3	82.5	82.7	85.0	86.1	82.0	79.7	80.1	81.5	137.3				
5000	70.7	82.2	81.4	82.6	82.1	81.2	80.9	81.7	81.9	80.1	77.9	76.4	78.4	135.0				
6300	67.9	79.1	78.2	80.9	79.2	79.3	78.9	79.5	77.2	77.6	77.3	72.5	70.1	134.3				
8000	66.7	78.3	77.1	80.7	79.7	79.6	79.3	78.9	79.7	77.3	72.5	69.2	72.1	134.3				
10000	70.5	83.5	81.0	85.8	84.5	84.8	84.2	79.3	80.5	83.6	73.9	68.7	72.1	160.2				
OVERALL CALCULATED	94.6	97.3	97.9	98.9	100.0	100.8	101.9	103.3	105.0	106.2	108.1	108.9	108.6					
PRDB	103.3	110.2	109.0	110.3	111.3	111.5	112.9	114.1	116.4	114.4	113.3	112.8	112.4					

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 2 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-1.17m²(1812in²)

NO EGA	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY)													
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
SIDELINE 2400. FT. (731.52 M)	50	52.1	54.9	58.5	61.1	63.1	63.1	64.3	65.3	66.0	67.3	69.9	70.3	68.4
NFA (0. RAD/SEC)	63	52.9	55.7	58.6	61.3	63.3	64.3	65.3	65.8	66.0	67.3	69.9	70.3	67.9
NFK (0. RAD/SEC)	80	53.9	57.2	58.9	61.1	61.9	63.4	65.1	65.6	67.1	67.8	69.7	70.1	66.5
NFD 7500. RPM	100	54.8	57.7	60.6	61.6	63.1	64.9	65.6	66.3	67.6	68.5	70.1	69.2	64.4
AIRFLOW RATIO	125	55.7	57.9	60.3	61.8	63.1	64.6	65.8	66.8	67.3	68.2	70.1	66.9	62.2
WF/WM 8.00	160	55.2	57.3	60.5	61.5	62.8	64.6	65.6	66.8	67.5	68.4	69.2	66.5	60.0
VEHICLE CELL41	200	55.1	58.0	60.0	61.5	63.8	64.6	65.1	65.8	66.5	67.9	67.9	64.8	58.4
CONFIG NC52	250	54.9	57.6	60.3	61.7	63.5	64.0	65.7	66.7	66.6	67.5	66.9	63.3	56.2
LOC C41 ANECH CH	315	54.1	57.2	60.5	61.3	62.6	63.6	64.4	65.8	67.0	66.3	65.5	61.5	54.2
DATE 06-07-76	400	53.5	57.1	59.4	60.8	63.3	63.1	64.3	65.5	66.7	66.7	65.3	60.7	53.4
RUN CONFIREPEATS	500	51.8	55.0	57.6	59.3	61.1	62.4	63.9	64.8	65.1	65.4	62.6	59.1	51.0
TAPE X00020	630	50.7	54.1	57.1	58.7	59.6	61.4	62.3	63.7	63.8	63.5	61.6	56.9	49.8
FAN TIP SPEED	800	48.3	53.3	55.6	58.1	59.7	61.0	61.5	62.1	63.1	61.7	58.9	54.9	48.0
FT/SEC	1000	46.4	50.9	52.9	56.4	58.5	59.8	60.8	61.1	61.6	60.4	56.9	52.3	44.7
OVERALL CALCULATED	1250	43.8	49.8	51.9	55.0	57.4	57.5	58.9	59.7	60.6	58.5	54.1	49.8	41.3
PMDB	1600	39.7	47.4	49.0	52.4	54.6	55.7	56.0	57.1	57.2	55.5	50.2	46.5	37.1
	2000	36.4	44.8	47.2	50.7	53.2	53.6	54.5	54.7	55.7	52.0	46.8	42.6	32.5
	2500	31.5	41.7	44.1	47.6	51.4	51.3	52.5	52.0	53.2	47.0	40.4	33.4	22.9
	3150	29.5	44.6	44.4	47.3	49.6	49.6	51.7	52.0	53.6	44.8	36.3	25.0	12.6
	4000	18.9	35.4	36.8	39.6	41.4	41.0	40.8	41.8	40.6	32.6	24.1	14.0	4.3
	5000	10.4	28.8	32.3	36.2	37.3	36.7	36.0	35.3	32.9	26.7	17.6	4.3	
	6300	10.4	14.3	19.1	25.3	25.6	26.3	25.6	23.3	20.6	13.3	7.5	1.1	
	8000	2.6	11.0	12.5	13.3	12.3	7.5	3.1	0.1					
	10000	65.0	68.0	70.6	72.1	73.8	75.0	76.0	77.0	77.8	78.4	79.1	77.7	74.0

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 2 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-1.17m²(1812in²)

RDG. NO.	NO EGA	FREQ.	FULL SIZE SOUND PRESSURE LEVELS					ANGLES FROM INLET IN DEGREES (AND RADIAN)					PWL			
			40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.	150.	
50	83.3	50	83.3	85.1	37.3	88.1	89.2	90.6	91.7	93.3	95.1	98.4	102.8	105.0	106.3	151.1
53	84.6	53	84.6	85.9	87.4	88.4	89.8	91.4	92.3	93.9	95.9	99.5	102.9	105.3	104.9	151.1
80	86.0	80	86.0	87.5	88.0	89.8	91.1	92.0	93.6	95.0	97.0	100.1	103.0	104.9	103.2	151.4
100	87.2	100	87.2	89.3	90.0	90.8	92.4	93.0	94.6	96.0	98.5	100.8	103.3	104.5	102.0	151.4
(46. M)	125	88.6	89.8	90.6	91.6	92.7	93.8	94.7	96.6	98.1	101.4	103.1	102.1	100.1	151.0	
VEHICLE	160	88.7	89.7	91.4	91.2	92.3	93.9	95.3	97.2	99.2	101.5	103.2	102.1	99.7	151.2	
CONFIG	200	89.0	90.5	90.8	92.3	93.4	95.0	95.4	96.8	99.3	101.9	103.1	101.8	99.3	151.3	
LOC C41 ANECH CH	250	88.6	90.6	91.6	92.1	94.0	94.4	96.2	97.4	99.6	102.2	102.4	101.3	98.9	151.2	
DATE 06-07-76	315	88.9	90.7	91.7	92.5	93.6	94.5	96.1	98.0	100.7	101.6	101.5	100.9	98.2	151.4	
RUN CONF1REPEATS	400	89.2	91.5	92.0	93.3	94.6	95.3	96.9	98.5	101.3	101.6	101.8	100.7	98.0	151.6	
TAPE X00030	500	88.5	90.3	91.6	91.9	94.2	95.1	97.0	99.1	101.4	101.7	100.7	100.1	97.3	151.4	
BAR 29.4 HG	630	88.9	91.0	91.5	92.8	93.6	95.0	96.9	99.1	101.0	101.6	101.6	100.2	98.0	151.5	
(99381. N/M2)	800	87.9	91.2	92.3	93.3	94.3	95.7	97.3	99.0	102.0	102.4	101.3	100.9	99.0	152.0	
TAMB 57. DEG F	1000	87.6	90.2	90.5	93.0	94.6	96.0	97.4	99.0	101.5	102.7	100.8	100.7	99.0	151.9	
(287. DEG K)	1250	86.3	90.7	91.0	92.5	95.1	95.4	96.6	98.5	101.0	102.2	100.1	100.7	99.2	151.6	
TWET 55. DEG F	1600	84.4	89.7	90.1	91.8	93.8	94.4	96.0	97.3	99.6	100.3	99.1	99.2	98.9	150.4	
(286. DEG K)	2000	84.0	89.5	89.2	91.9	93.1	93.7	95.4	96.9	99.4	99.4	99.0	98.1	97.7	149.8	
HACT10-32 GM/M3	2500	83.1	89.7	89.1	90.0	92.8	92.8	95.1	94.9	97.6	95.9	94.8	95.2	96.6	148.2	
(.01032 KG/M3)	3150	83.5	91.6	90.0	91.1	92.8	93.5	95.4	95.3	97.6	94.0	93.5	92.3	95.4	148.2	
FREQ. SHIFT	4000	86.0	99.1	96.6	98.5	99.0	99.2	97.0	99.2	97.6	92.5	91.7	92.5	94.5	152.1	
JET 9	5000	82.0	91.9	91.8	92.8	92.4	91.9	92.4	93.9	94.4	92.3	90.1	90.4	91.6	147.1	
DIAMETER RATIO	6300	79.6	87.8	89.9	89.9	88.4	88.5	90.0	90.1	90.2	89.0	88.1	86.5	88.0	144.6	
DF/DM 8.00	8000	78.7	87.3	90.0	89.4	87.9	88.5	90.2	89.2	89.0	88.5	87.2	84.6	86.1	144.8	
	10000	81.3	88.2	92.9	91.0	89.2	90.5	94.7	90.5	91.7	94.1	91.3	85.6	88.8	149.0	
OVERALL CALCULATED	100.4	104.8	105.0	106.1	107.2	108.0	109.2	110.6	112.7	113.8	114.6	114.6	113.5	113.5	166.4	
PMBD	111.3	119.6	118.8	120.2	121.0	121.4	121.4	121.4	122.9	123.6	123.2	122.7	122.5	122.2		

CONFIGURATION TEST POINT 3 ACUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-1.17m²(1812in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)												
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
50	55.1	58.4	61.8	63.3	64.8	66.3	67.3	68.5	69.5	71.8	74.7	74.6	72.4
63	56.4	59.2	61.8	63.6	65.3	67.1	67.8	69.1	70.3	72.8	74.7	74.8	70.9
80	57.6	60.7	62.4	64.9	66.6	67.6	69.1	70.1	71.4	73.3	74.7	74.3	69.0
100	58.8	62.4	64.3	65.8	67.8	68.6	70.1	71.1	72.8	74.0	74.9	73.7	67.6
125	60.7	62.9	64.8	66.6	68.1	69.4	70.1	71.6	72.3	74.5	74.6	71.1	65.5
160	59.9	62.6	65.5	66.0	67.6	69.3	70.6	72.0	73.3	74.4	74.5	71.0	64.7
200	60.1	63.3	64.7	67.0	68.6	70.3	70.6	71.5	73.3	74.7	74.1	70.3	63.0
250	59.4	63.1	65.3	66.7	69.0	69.5	71.2	71.9	73.3	74.7	73.2	69.5	63.0
315	59.4	63.0	65.2	66.8	68.4	69.4	70.9	72.3	74.2	73.8	72.7	68.7	61.7
400	59.2	63.4	65.2	67.3	69.1	70.1	71.3	72.5	74.4	73.5	71.8	67.9	60.6
500	58.0	61.8	64.4	65.5	68.4	69.4	71.1	72.8	74.1	73.2	70.1	66.6	59.0
630	57.7	61.9	63.8	66.0	67.3	68.9	70.6	72.2	73.3	72.5	70.4	65.9	58.3
800	55.8	61.3	63.9	65.8	67.5	69.0	70.5	71.6	73.6	72.5	69.2	65.4	57.5
1000	54.4	59.4	61.3	64.9	67.0	68.6	69.8	70.9	72.3	71.9	67.7	63.8	55.5
1250	51.8	58.8	60.9	63.5	66.6	67.2	68.1	69.5	70.9	70.3	65.6	62.0	53.1
1600	47.9	56.1	58.5	61.4	64.1	65.0	66.3	66.9	68.0	66.7	62.7	58.0	49.1
2000	45.2	54.0	55.9	59.9	62.0	62.8	64.3	64.9	66.2	63.5	59.3	53.9	43.5
2500	41.0	51.5	53.4	55.8	59.7	59.8	61.8	60.8	61.9	57.7	52.6	46.6	35.9
3150	36.0	48.9	50.4	53.3	56.0	57.1	58.7	57.5	57.9	51.3	46.0	36.8	24.4
4000	30.3	49.7	51.0	55.3	57.1	57.7	55.1	56.0	52.0	43.1	36.1	26.5	8.0
5000	21.7	38.5	42.8	46.5	47.5	47.5	47.5	47.5	45.3	38.9	29.8	18.3	
6300	5.5	23.0	30.8	34.3	34.8	35.5	36.3	34.5	31.1	24.2	14.0		
8000		4.9	15.5	19.7	20.7	22.2	23.0	19.4	14.5	6.1			
10000				1.6	3.3	5.8	8.8	1.0					
OVERALL CALCULATED	69.9	73.7	75.9	77.8	79.7	80.9	82.1	83.3	84.8	85.2	84.7	82.7	77.8
PNDB	73.6	79.4	81.5	84.1	86.3	87.3	88.5	89.3	90.5	89.7	87.6	83.8	76.2

NO EGA
SIDELINE 2400. FT.
(731.52 M)
NFA (1. RPM
HPK (0. RAD/SEC)
MFD (0. RAD/SEC)
MFD 7500. RPM
(785. RAD/SEC)
AIRFLOW RATIO
WF/WM 8.00
VEHICLE CELL41
CONFIG NC52
LOC C41 ANECH CH
DATE 08-07-76
RUN CONFIREPEATS
TAPE X00030
FAN TIP SPEED
FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION / TEST POINT 3 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-1.17m²(1812in²) SIZE

RDG. NO.	NO EGA	40.	50.	60.	70.	80.	85.9	86.8	87.2	87.9	88.7	93.4	93.9	96.4
100	800	76.9	86.2	83.2	85.0	86.0	85.9	86.8	87.2	87.9	88.7	93.4	93.9	96.4
125	800	77.1	80.4	82.1	84.4	85.7	87.1	87.0	88.2	86.1	85.7	94.1	96.1	97.6
150	800	76.4	78.7	81.9	82.2	83.0	83.4	84.0	85.5	86.4	90.7	94.2	96.4	99.7
175	800	77.8	79.3	81.5	83.3	83.7	84.0	85.9	87.6	89.8	92.4	96.8	101.5	103.3
200	800	78.1	80.6	82.3	82.4	84.2	85.8	88.2	89.1	90.6	94.9	99.9	102.8	104.6
225	800	79.4	82.7	82.9	85.0	86.6	87.2	88.6	90.5	92.7	95.7	100.5	104.1	105.4
250	800	80.7	82.7	84.7	85.7	86.3	88.5	88.8	91.2	94.2	97.8	102.2	104.2	104.5
275	800	82.3	83.8	85.0	86.1	87.4	88.8	89.9	92.1	94.8	99.1	102.3	104.2	103.0
300	800	83.6	85.4	85.9	87.4	88.8	89.6	91.8	93.2	96.4	99.7	102.7	103.1	101.4
325	800	84.9	86.4	87.4	88.7	89.5	91.4	92.8	94.9	97.9	101.7	103.4	102.9	100.6
350	800	86.2	87.5	88.7	89.5	90.4	92.2	93.1	95.8	98.5	102.3	102.5	101.2	99.5
375	800	86.8	87.6	89.3	90.1	90.4	92.8	93.9	96.9	99.8	102.9	103.1	102.0	100.1
400	800	87.4	89.2	89.2	90.7	92.0	93.9	94.3	96.7	100.4	103.7	103.7	102.4	100.7
425	800	88.2	89.2	90.7	90.7	92.6	93.7	96.1	98.0	101.5	103.8	104.0	102.9	100.5
450	800	88.3	89.3	90.3	91.1	92.7	93.6	95.7	98.4	102.3	103.4	103.6	103.8	101.3
475	800	88.5	90.3	91.1	92.3	93.9	95.0	96.9	99.3	103.3	103.9	105.1	104.0	102.3
500	800	88.0	89.8	90.8	91.9	93.2	94.8	96.5	100.1	102.8	104.4	104.1	104.3	102.1
525	800	88.6	91.0	91.5	92.3	93.6	95.2	97.3	100.0	103.0	103.8	104.0	104.2	104.2
550	800	91.5	95.0	93.8	92.9	94.9	96.3	97.9	100.6	104.1	103.7	104.1	105.0	105.3
575	800	92.5	94.9	93.2	94.2	96.0	96.1	98.3	100.9	103.2	104.1	103.7	105.6	105.4
600	800	94.5	98.6	97.7	96.4	96.7	96.1	97.7	100.7	102.7	103.3	103.5	104.8	104.6
625	800	93.6	97.9	98.1	98.0	98.1	96.7	97.0	98.8	101.1	101.0	101.9	103.0	103.2
650	800	90.0	94.8	96.5	99.2	99.2	97.3	97.0	97.7	101.0	99.8	100.7	101.1	101.3
675	800	87.1	91.4	92.1	94.9	96.2	96.8	96.8	95.4	98.1	96.9	96.8	97.4	99.3
700	800	84.5	89.3	88.8	91.3	93.2	93.7	94.6	92.8	96.3	93.0	94.5	93.8	96.1
725	800	82.4	87.0	88.5	90.2	91.4	90.9	91.9	92.4	92.8	90.5	91.6	93.0	93.1
750	800	77.1	82.5	85.0	86.5	86.5	86.5	86.8	88.8	89.0	87.5	87.5	88.5	89.6
775	800	70.8	76.1	79.4	80.6	79.2	80.3	80.2	82.3	82.4	82.3	82.3	82.5	83.3
800	800	64.5	69.2	74.2	74.3	72.7	73.4	73.0	76.0	77.2	77.2	77.1	77.2	76.9
825	800	59.3	64.5	70.3	68.6	66.5	68.4	67.5	69.6	71.3	73.7	72.9	69.5	71.9
850	800	102.1	105.4	105.6	106.4	107.5	107.6	108.8	111.0	113.9	115.2	116.1	116.7	116.4
875	800	113.1	115.8	115.6	116.2	117.6	118.8	120.5	123.2	126.3	127.8	128.8	128.8	128.0

OVERALL MEASURED

OVERALL CALCULATED
 PNOB 102.1 105.4 105.6 106.4 107.5 107.6 108.8 111.0 113.9 115.2 116.1 116.7 116.4

ANCHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 1 4 12.2m(40ft.) ARC MODEL-183cm²(28.3in²)

RDG. NO.	NO. EGA	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA										PROC. DATE - MONTH 8 DAY 25 HR. 17.0													
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL										
50	87.3	89.3	91.3	92.7	95.4	97.8	100.8	104.4	108.8	113.8	111.1					156.5									
63	88.9	90.4	91.6	92.7	94.0	95.4	96.5	98.7	101.4	105.7	110.8	109.6				156.6									
80	90.2	92.0	92.5	94.0	95.4	96.2	98.4	99.8	103.0	106.3	109.3	109.7				157.4									
100	91.5	93.0	94.0	95.3	96.1	98.0	99.4	101.5	104.5	108.3	110.0	109.5				157.2									
125	92.8	94.1	95.3	96.1	97.0	98.8	99.7	102.4	105.1	108.9	109.1	107.8				157.9									
160	93.4	94.2	95.9	96.7	97.1	99.4	100.6	103.5	106.4	109.5	109.7	108.6				158.6									
200	94.0	95.8	95.8	97.3	98.7	100.5	100.9	103.3	107.1	110.4	110.3	109.0				159.1									
250	94.3	95.9	97.4	97.4	99.2	100.4	102.7	104.6	108.1	110.4	110.6	109.6				160.2									
315	94.9	96.0	97.0	97.3	99.4	100.2	102.4	105.0	109.0	110.1	110.3	110.4				160.2									
400	95.2	97.0	97.8	99.0	100.6	101.6	103.2	106.9	109.6	111.2	110.9	111.1				161.2									
500	94.8	96.6	97.6	98.6	100.0	101.6	103.2	106.9	109.6	111.2	110.9	112.2				161.5									
630	95.5	97.8	98.3	99.1	100.4	102.0	104.1	107.5	111.0	110.6	111.1	111.9				161.7									
800	98.4	102.0	100.8	99.8	101.9	103.2	105.4	108.0	110.1	110.7	110.9	112.2				161.2									
1000	99.6	102.0	100.3	101.3	103.1	103.2	105.4	108.0	110.1	110.7	110.9	112.2				161.5									
1250	101.8	106.0	105.1	103.8	104.1	103.5	105.1	108.0	110.1	110.7	110.9	112.2				161.7									
1600	101.4	105.7	105.8	105.8	105.8	104.4	104.7	106.5	108.8	108.8	109.7	110.9				161.2									
2000	98.5	103.3	105.0	107.7	107.7	105.8	105.5	106.2	109.5	108.3	109.1	109.6				161.2									
2500	95.4	100.8	101.4	104.3	107.5	106.1	106.1	104.8	107.5	106.3	106.1	106.8				159.8									
3150	95.1	99.9	99.4	101.9	103.9	104.3	103.4	103.4	106.9	103.6	105.2	104.4				158.2									
4000	94.8	99.5	101.0	102.6	103.9	103.3	104.3	104.9	105.3	102.9	104.1	105.4				158.2									
5000	92.6	98.0	100.5	102.0	102.0	102.0	102.3	104.3	104.3	103.0	103.0	103.8				157.4									
6300	90.0	93.2	98.6	99.8	98.4	99.4	101.5	101.6	101.5	101.5	101.5	101.7				155.5									
8000	89.1	93.7	98.7	98.8	97.3	98.0	97.6	100.6	101.7	101.7	101.7	101.8				155.8									
10000	91.9	97.1	102.9	101.2	99.1	101.0	102.2	103.9	106.3	105.6	102.1	104.5				160.0									
OVERALL CALCULATED													109.8	113.3	114.0	114.9	115.8	116.7	118.6	121.3	122.3	122.9	123.2	122.6	173.0
PNDR													121.4	125.3	126.5	128.1	129.3	128.9	129.5	130.4	132.7	132.5	133.1	133.4	133.6

NO. EGA 0.
 RADIAL 150. FT.
 (46. M)
 VEHICLE CELL41
 CONFIG NCS2
 LOC C41 ANECH CH
 DATE 06-07-76
 RUN CONF1 REPEATS
 TAPE X00040
 SAR 29.4 HG
 (99381. N/M2)
 TAMB 55. DEG F
 (286. DEG K)
 TWET 53. DEG F
 (285. DEG K)
 MACT 9.72 GM/M3
 (.00972 KG/M3)
 FREQ. SHIFT
 JET 9
 DIAMETER RATIO
 DF/DH 8.00

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 4 ACUSTIC RANGE 45.7m(150ft.) ARC
 SIZE FULL-1.17m²(182in²)

NO EGA SIDELINE 2400. FT. (731.52 M)	FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)												
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
(1. RPM	50	59.1	62.7	65.8	67.5	68.6	70.8	71.1	73.0	75.3	77.8	80.7	80.3	77.2
(0. RAD/SEC)	63	60.6	63.7	66.1	67.8	69.6	71.1	72.1	73.8	75.8	79.0	80.7	80.3	77.2
(0. RAD/SEC)	80	61.9	65.2	66.9	69.1	70.9	71.9	73.9	74.9	77.4	79.6	80.9	79.1	73.8
(7500. RPM	100	63.0	66.2	68.3	70.3	71.6	73.6	74.8	76.6	78.8	81.5	81.6	78.7	72.9
(785. RAD/SEC)	125	64.2	67.2	69.5	71.1	72.3	74.4	75.1	77.3	79.3	82.0	80.6	76.9	71.5
(785. RAD/SEC)	160	64.7	67.1	70.0	71.5	72.3	74.8	75.8	78.3	80.5	82.4	81.0	77.5	71.7
(785. RAD/SEC)	200	65.1	68.5	69.7	72.0	73.8	75.8	76.1	78.0	81.0	83.1	81.4	77.6	71.9
(785. RAD/SEC)	250	65.6	68.4	71.1	71.9	74.2	75.5	77.7	79.2	81.3	83.0	81.4	77.8	71.2
(785. RAD/SEC)	315	65.4	68.2	70.5	72.1	74.1	75.1	77.1	79.3	82.5	82.3	80.7	78.2	71.5
(785. RAD/SEC)	400	65.2	68.9	70.9	73.0	75.1	76.4	78.1	80.0	83.2	82.5	81.8	77.9	71.6
(785. RAD/SEC)	500	64.3	68.0	70.4	72.3	74.1	75.9	77.4	80.5	82.4	82.7	80.4	77.6	70.5
(785. RAD/SEC)	630	64.2	68.6	70.6	72.2	74.1	75.9	77.8	80.0	82.1	81.5	79.6	76.6	71.3
(785. RAD/SEC)	800	66.3	72.1	72.4	72.3	75.0	76.5	78.0	80.1	82.6	80.7	78.9	76.4	70.8
(785. RAD/SEC)	1000	66.4	71.2	71.1	73.1	75.5	75.8	77.8	79.9	81.1	80.4	77.7	75.8	69.0
(785. RAD/SEC)	1250	67.3	74.1	74.9	74.7	75.7	75.2	76.7	79.0	79.9	78.8	76.3	73.5	65.9
(785. RAD/SEC)	1600	64.9	72.2	74.2	75.4	76.2	75.0	75.1	76.2	77.2	75.3	73.2	69.5	61.1
(785. RAD/SEC)	2000	59.7	67.8	71.7	75.8	76.5	74.9	74.3	74.3	76.2	72.8	70.3	65.4	55.6
(785. RAD/SEC)	2500	54.3	62.5	65.7	70.1	74.2	73.1	72.8	70.6	71.7	68.0	64.0	58.2	48.0
(785. RAD/SEC)	3150	47.5	57.2	59.7	64.1	67.1	67.9	68.5	65.6	67.2	60.9	57.6	48.9	35.7
(785. RAD/SEC)	4000	39.2	50.0	55.4	59.4	62.0	61.9	62.4	61.7	59.7	53.5	48.5	39.4	19.1
(785. RAD/SEC)	5000	32.3	44.7	51.5	55.6	57.1	57.6	57.4	57.9	55.5	49.6	42.7	31.7	9.6
(785. RAD/SEC)	6300	15.9	30.4	39.5	44.2	44.7	46.4	45.8	46.0	42.5	36.7	27.5	11.7	
(785. RAD/SEC)	8000		11.4	24.2	29.1	30.2	31.7	30.5	30.9	27.2	19.4	6.5		
(785. RAD/SEC)	10000			6.9	11.8	13.2	16.2	14.2	12.7	7.9				
(785. RAD/SEC)	PNDB	76.9	81.6	83.3	85.0	86.6	87.4	86.7	90.6	92.8	93.3	92.3	89.7	84.3
(785. RAD/SEC)		83.8	90.1	92.4	95.1	96.6	96.5	97.0	97.7	99.5	98.6	97.1	93.5	86.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 4 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-1.17m²(1812in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. FROM INLET IN DEGREES (AND RADIIANS) ANGLES FROM INLET IN DEGREES (AND RADIIANS)

PROC. DATE - MONTH 8 DAY 25 HR. 17.4

FREQ. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. O. PUL
 (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)(O.)(O.)(O.)(O.)(O.)(O.)

RDG. NO. NO EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	O.	PUL
100	70.9	79.7	76.9	78.0	79.8	79.4	78.5	80.5	81.4	73.5	87.2	86.4	89.7	124.0	
125	69.6	75.4	75.6	77.7	79.5	80.4	79.0	81.7	83.6	70.4	87.9	89.6	90.4	126.8	
160	71.1	72.7	76.9	76.5	76.8	77.7	76.5	79.7	81.7	89.2	90.1	92.9	125.6		
200	72.3	73.5	75.0	76.3	77.4	78.8	78.7	82.8	84.5	77.6	91.3	95.8	97.5	129.5	
250	71.8	75.3	76.4	76.4	78.2	80.6	82.0	85.6	86.1	80.9	95.6	97.8	99.3	131.9	
315	73.7	77.9	76.4	79.7	82.3	82.7	81.8	86.2	88.9	82.5	97.7	100.9	102.2	134.6	
400	74.7	77.5	79.5	79.3	80.8	82.5	83.3	87.5	90.0	83.8	99.7	101.7	102.5	135.5	
500	74.8	76.8	77.3	78.6	80.2	82.8	82.4	86.3	88.8	84.1	98.3	101.5	102.0	134.9	
630	75.4	77.1	78.4	79.7	81.3	82.6	83.8	87.2	89.6	83.2	97.9	100.9	100.6	134.3	
800	76.4	78.4	79.4	80.5	82.3	82.7	83.5	87.7	90.2	84.0	97.9	99.4	98.9	133.5	
1000	78.5	79.5	80.5	81.0	82.6	84.2	84.4	88.0	93.0	83.3	96.5	96.5	96.5	131.8	
1250	77.8	79.1	81.1	81.4	82.7	84.1	84.5	88.4	93.6	83.2	95.6	95.3	93.3	131.0	
1600	77.4	79.2	79.9	81.2	83.1	84.4	84.1	87.2	90.4	83.0	94.3	93.4	90.9	130.0	
2000	77.4	78.5	80.3	80.8	82.9	83.7	84.4	87.8	90.0	82.1	93.0	91.5	88.0	129.0	
2500	76.8	77.8	79.4	80.6	82.0	82.6	83.2	86.9	89.4	81.5	90.9	88.8	85.1	127.6	
3150	77.3	78.1	79.1	80.1	82.0	82.6	82.5	86.4	88.6	80.4	89.6	86.5	82.8	126.7	
4000	75.5	76.6	78.1	78.9	80.7	81.6	82.0	85.7	87.6	78.2	86.7	83.3	79.6	125.3	
5000	74.5	75.8	76.9	77.4	79.5	80.7	80.6	84.8	86.5	76.6	84.3	80.5	77.0	124.1	
6300	74.5	75.8	76.9	77.4	79.5	80.7	80.6	84.8	86.5	76.6	84.3	80.5	77.0	123.6	
8000	73.8	74.4	75.0	76.2	77.8	79.6	79.5	82.2	84.7	74.9	82.0	78.9	77.1	121.9	
10000	71.5	73.9	74.2	75.2	77.8	77.4	77.5	81.2	84.2	73.1	80.5	77.9	76.4	119.9	
12500	69.2	71.2	71.8	73.0	75.3	75.7	75.5	78.3	81.1	70.5	78.7	77.0	75.9	119.3	
16000	67.5	69.3	70.0	71.7	73.5	73.6	73.5	76.0	80.0	69.1	77.9	76.2	75.8	117.1	
20000	64.6	66.4	67.8	67.9	71.2	70.8	71.0	71.9	73.9	70.4	76.3	74.2	72.8	115.1	
25000	62.2	64.3	65.5	64.8	67.5	67.2	68.4	67.3	69.8	65.8	73.8	69.3	68.9	114.7	
31500	60.9	63.1	65.1	64.0	65.2	65.7	65.5	65.9	61.6	61.6	64.3	62.3	62.1	114.3	
40000	58.1	60.8	63.8	62.0	62.3	61.8	62.0	61.6	61.3	57.6	64.3	62.3	62.1	114.3	
50000	54.7	57.6	61.2	58.2	58.2	58.0	61.5	54.6	54.8	51.7	59.2	55.8	55.5	117.3	
63000	51.1	53.6	56.5	54.7	54.4	57.8	47.8	47.8	46.9	46.9	53.8	49.5	49.6	125.2	
80000	49.3	52.0	58.8	54.7	53.5	53.6	54.5	41.9	42.8	44.5	51.1	43.8	47.1		
OVERALL MEASURED															
OVERALL CALCULATED	88.6	90.6	91.6	92.5	94.2	95.3	95.5	99.1	101.4	96.3	107.6	109.4	109.9	144.0	
PND8	101.2	102.7	103.7	104.7	106.5	107.4	107.4	111.1	113.4	105.5	116.5	116.8	116.5		

ANCHOIC-JET NOISE-TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 5 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-183cm²(28.3in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEVOYS)
 PROC. DATE - MONTH 8 DAY 25 HR. 17.1
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

NO	REG	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
50	31.3	84.1	86.1	85.8	87.4	89.1	89.9	94.1	96.6	90.4	106.3	108.3	109.1					153.6
63	81.4	83.4	83.9	85.2	86.8	89.4	89.0	92.9	95.4	90.7	104.9	108.1	108.6					152.9
80	82.0	83.7	85.0	86.3	87.9	89.2	90.4	93.8	96.2	89.8	104.5	107.5	107.2					152.3
100	83.0	85.0	86.0	87.1	87.7	89.2	90.2	94.3	96.8	90.6	104.6	106.0	105.5					151.5
125	85.1	86.1	87.1	87.6	89.2	90.9	91.0	94.6	96.6	89.9	103.1	103.1	103.1					149.9
160	84.4	85.7	87.7	88.0	89.3	90.7	91.1	95.0	97.2	89.8	102.2	101.9	99.9					149.1
200	84.0	85.8	86.6	87.9	89.7	91.1	90.7	93.9	97.1	89.7	101.1	100.0	97.6					148.0
250	84.1	85.1	86.9	87.4	89.5	90.4	91.0	94.4	96.6	88.7	99.7	98.1	94.6					147.1
315	83.5	84.5	86.0	87.3	88.7	89.3	89.3	93.0	96.0	88.1	97.6	95.5	91.8					145.6
400	84.0	84.8	85.8	86.8	88.7	89.3	89.2	93.1	95.3	87.2	96.3	93.3	89.5					143.4
500	82.3	83.4	84.9	85.7	87.5	88.4	88.8	92.4	94.4	85.0	93.5	90.1	86.4					144.8
630	82.5	82.8	84.1	85.9	86.7	87.5	87.4	91.6	93.3	83.4	91.1	87.3	83.8					143.4
800	81.4	82.7	83.8	84.3	86.4	88.0	87.1	90.6	92.8	82.9	90.1	87.0	85.2					142.2
1000	80.9	81.5	82.1	83.3	85.7	86.8	86.7	89.3	91.8	82.0	89.1	86.0	84.3					141.7
1250	78.9	81.2	81.6	82.6	85.1	84.7	84.9	88.6	91.6	80.5	87.9	85.3	83.7					140.7
1600	76.9	79.0	79.6	80.8	83.1	83.5	83.3	86.1	88.9	78.3	86.5	84.8	83.7					139.9
2000	76.0	77.8	78.5	80.2	82.0	82.0	82.0	84.4	88.5	77.5	86.4	84.6	84.3					138.0
2500	73.9	75.8	77.2	77.3	80.6	80.1	80.4	81.3	83.2	79.8	85.6	83.5	82.2					135.2
3150	72.9	75.0	76.2	75.4	78.1	77.9	79.0	77.9	80.4	76.4	84.4	79.9	79.5					133.2
4000	73.4	75.6	77.6	76.5	78.0	77.7	78.2	77.9	80.4	78.4	84.0	79.8	78.4					132.7
5000	73.5	76.3	79.3	77.5	77.8	77.3	77.5	77.0	76.8	73.0	79.8	77.8	77.5					132.4
6300	73.9	76.7	80.4	78.3	77.4	77.2	80.7	73.8	73.9	70.9	76.4	75.0	74.7					133.0
8000	75.7	78.2	83.1	80.1	79.3	78.9	82.3	72.4	72.4	71.5	78.4	74.1	74.2					135.4
10000	81.9	84.6	91.4	87.3	86.1	86.2	87.1	74.6	75.4	72.1	83.7	76.5	79.7					143.3
OVERALL CALCULATED																		
PND8	103.3	105.3	108.7	107.5	108.6	108.9	109.4	111.2	113.7	106.7	116.1	115.4	114.6					160.9

NO REG
 RDRG. NO. 0
 RADIAL 150. FT.
 (46. M)
 VEHICLE CELL41
 CONFIG NC52
 LOC C41 ANECH CH
 RUN CONF1 REPEATS
 TAPE X00050
 BAR 29.4 HG
 (99381. N/M2)
 TAMB 84. DEG F
 (302. DEG K)
 THWT 69. DEG F
 (294. DEG K)
 HACT13.18 GM/M3
 (.01318 KG/M3)
 FREQ. SHIFT 9
 JET 9
 DIAMETER RATIO
 DF/DW 8.00

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 5 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-1.17m²(1812in²)

		FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)												
		ANGLES FROM INLET IN DEGREES (AND RADIANS)												
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
		(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)	(0.1)	(0.2)	(0.3)	(0.4)	(0.5)	(0.6)	(0.7)	(0.8)	(0.9)	(1.0)	(1.1)	(1.2)
FREQ.		50	53.1	57.4	60.5	61.1	63.1	64.8	65.6	69.3	71.0	63.8	78.2	77.8
		80	53.6	57.0	59.4	61.4	63.4	64.9	65.9	68.9	70.6	64.0	76.7	77.6
SIDELINE	2400. FT.													
	(731.52 M)													
NFA	(0. RAD/SEC)	100	54.6	58.2	60.3	62.1	64.4	64.9	65.6	69.3	71.1	63.8	76.1	75.2
	(1. RPM)	125	56.5	59.2	61.3	62.6	64.6	66.4	66.4	69.6	70.8	63.0	74.6	72.1
NFK	(0. RAD/SEC)	160	55.7	58.6	61.8	62.8	64.6	66.1	66.3	69.8	71.3	62.7	73.5	70.7
	(1. RPM)	200	55.1	58.5	60.5	62.6	64.8	66.3	65.8	68.6	71.0	62.4	72.2	68.6
NFD	(0. RAD/SEC)	250	54.9	57.7	60.6	61.9	64.5	65.5	66.0	68.9	70.4	61.3	70.5	66.3
	(7500. RPM)	315	53.9	56.8	59.5	61.6	63.4	64.2	64.6	67.8	69.5	60.4	68.0	63.3
AIRFLOW	(785. RAD/SEC)	400	54.0	56.7	59.0	60.8	63.1	63.9	63.6	67.1	68.5	59.0	66.4	60.5
	(785. RAD/SEC)	500	51.8	54.8	57.7	59.3	61.7	62.9	62.9	66.1	67.2	56.5	62.9	56.6
WF/MM	8.00	630	51.3	53.7	56.4	59.0	60.4	61.4	61.1	64.8	65.6	54.3	59.9	52.9
		800	49.3	52.9	55.4	56.9	59.5	61.3	60.2	63.1	64.4	53.0	58.0	51.4
VEHICLE	CELL41	1000	47.7	50.7	52.9	55.2	58.1	59.4	59.1	61.2	62.7	51.2	56.0	49.1
CONFIG	NC52	1250	44.3	49.3	51.4	53.5	56.7	56.5	56.4	59.5	61.4	48.6	53.4	46.6
LOC	C41 ANECH CH	1600	40.5	45.4	48.0	50.5	53.4	54.0	53.6	55.7	57.3	44.8	50.0	43.5
DATE	06-07-76	2000	37.2	42.3	45.2	48.3	50.8	51.1	50.8	52.5	55.2	42.1	47.6	40.4
RUN	CONF1REPEATS	2500	31.8	37.5	41.5	43.1	47.3	47.1	47.1	47.1	47.5	44.8	50.0	43.5
TAPE	X00050	3150	25.3	32.2	36.5	37.7	41.4	41.5	42.3	40.1	40.8	33.7	36.9	24.4
FAN TIP	SPEED	4000	17.8	26.1	32.0	33.3	36.1	36.2	36.3	34.7	32.8	24.6	26.3	13.7
	FT/SEC	5000	13.2	22.9	30.3	31.1	32.9	32.9	32.6	30.7	27.8	19.7	19.5	5.7
		6300	11.9	21.3	22.8	23.7	24.1	27.0	27.0	18.2	14.9	6.1	4.3	
		8000	8.6	10.4	12.2	12.6	15.2	2.7						
OVERALL	CALCULATED	65.2	68.4	70.9	72.6	74.7	76.0	76.2	79.5	81.0	72.9	84.6	83.9	80.3
	PNDB	67.6	71.2	74.1	76.0	78.4	79.4	79.3	82.2	83.7	73.8	83.3	80.1	74.0

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 5 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-1.17m²(1812in²)

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

RDG. NO.	NO EGA	C. FT.	PROC. DATE - MONTH 8 DAY 25 HR. 17.4											
			F, 70 PERCENT REL. HUM. DAY - JENOTS											
RADIAL (12. M)			MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)											
VEHICLE			CELL41											
CONFIG			NC52											
LOC			C41 ANECH CH											
DATE			06-07-76											
RUN			CONFIREPEATS											
TAPE			X00060											
BAR			29.4 HG											
(99381. N/M2)			800											
TAMB			84. DEG F											
(302. DEG K)			1000											
FMET			69. DEG F											
(294. DEG K)			2000											
HACT13.27 GM/M3			2500											
(-01327 KG/M3)			3150											
FREQ. SHIFT			4000											
JET			0											
DIAMETER RATIO			5000											
DF/PM			1.00											
100	71.9	80.2	77.9	78.7	80.0	80.2	80.5	81.5	82.2	84.7	88.2	87.6	89.9	
125	71.1	76.4	76.6	78.7	80.2	81.6	81.7	83.2	81.5	82.2	84.7	88.2	87.6	
150	72.1	73.4	76.0	77.5	78.2	78.9	79.0	81.0	81.9	81.4	88.9	90.6	91.9	
200	73.0	74.5	76.0	77.6	78.2	79.0	80.4	83.3	85.8	86.6	92.3	96.8	98.8	
250	72.6	76.3	77.8	77.9	79.0	81.6	84.2	85.9	87.1	90.9	95.9	98.8	100.6	
315	73.9	78.4	77.2	80.1	82.8	83.7	84.6	87.2	89.4	92.8	98.2	101.4	102.4	
400	75.4	78.2	80.2	79.8	81.6	83.2	84.8	87.8	90.2	94.3	100.5	102.4	103.0	
500	75.8	77.5	78.5	79.1	80.9	83.3	85.2	87.3	89.8	95.1	99.3	102.5	102.8	
630	76.6	78.6	79.4	80.4	82.3	83.9	85.8	88.2	90.4	94.5	98.9	101.9	101.6	
800	77.6	79.4	79.9	81.7	83.3	84.7	86.5	88.7	91.7	94.7	98.7	100.6	99.7	
1000	79.7	80.7	81.2	82.3	83.6	85.0	86.9	89.5	91.2	94.8	98.0	97.2	97.0	
1250	79.0	80.1	82.1	82.1	83.2	84.8	87.0	89.9	91.3	94.9	96.4	96.5	94.3	
1600	78.4	80.2	81.4	82.2	83.8	85.9	86.3	88.5	90.9	94.8	95.7	94.7	91.9	
2000	79.2	79.7	81.5	81.8	83.9	84.7	86.6	89.0	90.9	94.1	94.0	92.0	88.7	
2500	78.1	79.3	81.1	81.9	82.7	84.1	86.2	88.1	90.4	93.0	91.9	90.3	86.6	
3150	78.5	79.6	80.6	81.6	83.2	84.1	85.7	88.1	90.1	92.4	91.4	88.8	85.6	
4000	77.0	78.1	79.4	80.4	81.5	82.9	84.5	87.4	88.6	90.5	88.7	86.6	83.1	
5000	76.9	78.2	79.0	79.8	81.1	82.2	83.9	86.3	87.8	88.4	87.6	84.7	82.0	
6300	75.7	77.3	78.1	78.9	80.2	82.3	83.2	84.9	87.1	87.7	85.4	84.1	81.1	
8000	74.8	75.6	76.7	78.7	80.0	81.4	82.5	84.5	85.7	86.6	84.0	81.9	79.6	
10000	72.7	75.1	75.2	76.7	79.5	79.4	80.8	82.9	85.7	84.1	81.8	80.4	78.8	
12500	69.9	72.7	73.1	75.0	76.6	77.7	78.5	80.3	82.3	82.0	79.9	78.5	77.7	
16000	68.0	70.6	71.0	73.2	75.0	75.6	76.8	78.2	80.8	80.3	78.7	77.4	77.3	
20000	65.6	67.7	68.8	69.9	72.7	72.8	74.0	74.1	75.8	73.7	70.3	79.9	79.5	
25000	63.0	65.6	66.5	66.8	69.0	69.2	70.4	69.5	72.5	68.5	77.5	75.3	75.8	
31500	60.9	64.1	66.1	66.0	67.2	66.7	67.4	68.2	68.6	64.8	73.2	73.0	73.0	
40000	58.8	62.7	64.3	64.2	64.0	63.7	64.0	64.8	61.0	69.0	68.0	68.3	68.3	
50000	54.9	58.5	61.9	59.9	58.9	59.0	59.5	57.6	58.5	54.7	63.2	60.5	60.5	
63000	51.1	53.8	58.5	56.0	55.2	55.1	54.7	50.8	52.5	49.1	57.0	53.5	53.5	
80000	49.2	52.2	58.5	54.6	53.4	53.8	52.9	44.1	48.7	45.6	52.5	46.0	48.8	
OVERALL MEASURED			89.8	91.7	92.7	93.6	95.1	96.5	98.0	100.3	102.3	105.5	108.6	110.6
OVERALL CALCULATED			PNDB 102.5	104.0	105.1	106.0	107.5	108.7	110.3	112.6	114.5	117.0	117.8	117.6

ANCHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT TEST POINT ACOUSTIC RANGE SIZE
 1 6 12.2m(40ft.) ARC MODEL-183cm²(28.3in²)

PROC. DATE - MONTH 8 DAY 25 HR. 17.1

		FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)												
		ANGLES FROM INLET IN DEGREES (AND RADIAN)												
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
		(0.70)	(0.37)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.61)	(2.79)
		(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
FREQ.	50	53.9	58.2	61.3	61.6	63.3	65.6	67.1	69.6	71.3	74.3	78.9	78.6	75.7
	63	54.1	57.5	59.6	60.8	63.1	65.6	67.4	69.1	70.8	75.0	77.7	78.6	75.4
	80	54.9	58.5	60.4	62.1	64.4	66.2	67.9	69.9	71.4	74.3	77.2	77.8	74.1
	100	55.8	59.2	60.8	63.3	65.4	66.9	68.6	70.3	72.6	74.5	76.9	76.5	71.9
	125	57.8	60.4	62.1	63.8	65.6	67.1	68.9	71.1	72.1	74.5	76.1	72.9	69.0
	160	56.9	59.6	62.8	63.6	65.1	66.9	68.8	71.3	72.0	74.5	74.2	72.0	66.0
	200	56.1	59.6	62.0	63.6	65.6	67.8	68.1	69.8	71.5	74.2	73.4	69.8	63.2
	250	56.6	58.9	61.9	62.9	65.5	66.5	68.2	70.2	70.9	73.3	71.5	66.8	59.5
	315	55.2	58.3	61.3	62.8	64.1	65.7	67.6	69.1	70.5	71.9	69.0	64.8	56.7
	400	55.2	58.2	60.5	62.3	64.4	65.4	66.9	68.8	70.0	71.0	68.1	62.7	54.9
AIRFLOW RATIO	500	53.3	56.3	58.9	60.8	62.4	63.9	65.4	67.8	67.9	68.7	64.9	59.9	51.5
WF/WM	630	52.5	55.9	58.1	59.8	61.6	62.9	64.4	66.3	66.9	66.1	63.2	57.2	49.1
	800	50.6	54.4	56.7	58.4	60.2	62.5	63.2	64.4	65.7	64.8	60.2	55.4	46.6
VEHICLE	1000	48.7	52.0	54.7	57.7	59.6	61.1	62.1	63.4	63.7	62.9	58.0	52.1	43.3
CONFIG	1250	45.6	50.6	52.4	55.0	58.4	58.5	59.7	61.3	61.9	59.6	54.6	49.1	39.9
LOC	1600	41.2	46.9	49.3	52.4	54.7	54.0	56.6	57.7	58.5	56.3	51.2	45.0	35.7
DATE	2000	37.7	43.6	46.2	49.8	52.3	53.1	54.1	54.8	56.0	53.3	48.3	41.7	31.6
RUN	2500	32.8	38.8	42.4	45.1	48.7	49.1	50.1	49.3	49.5	44.8	47.5	40.7	28.2
TAPE	3150	26.1	33.5	37.5	39.6	42.9	43.4	44.3	42.4	43.5	36.4	40.6	30.4	15.5
X00060	4000	17.7	27.1	33.0	35.3	37.8	37.7	38.0	37.5	35.5	27.8	30.0	19.4	
FAN TIP SPEED	5000	14.0	24.9	30.7	33.3	34.6	34.8	34.6	33.9	31.2	23.2	24.2	11.4	
FT/SEC	6300	0.1	12.9	22.0	23.5	24.4	25.1	25.0	21.2	18.6	9.0	8.3		
	8000		8.5	10.8	12.6	13.3	12.2	5.6	2.5					
OVERALL CALCULATED		66.5	69.7	72.1	73.6	75.6	77.2	78.7	80.7	82.0	84.2	85.6	84.9	81.1
PWDB		68.9	72.7	75.4	77.4	79.6	80.9	82.3	83.9	85.0	85.7	84.9	81.9	75.4

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION / TEST POINT 6 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-1.17m²(1812in²)

FULL SIZE SOUND PRESSURE LEVELS		SCALED FROM MODEL DATA		PROC. DATE - MONTH 8 DAY 25 HR. 17.1	
FULL SIZE SOUND PRESSURE		INLET IN DEGREES (AND RADIAN)		DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)	
FREQ.	40. 50. 60. 70. 80.	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
RDG. NO.	50 83.0 86.1 87.6 89.7 91.1 92.7 95.1 97.6 102.6 107.8 110.0 110.6	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
NO EGA	63 83.5 85.6 86.6 87.9 89.3 91.7 94.1 96.3 99.0 102.3 107.0 110.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
RADIAL 150. FT.	80 84.5 87.0 87.2 89.0 90.6 91.7 92.8 94.1 96.4 99.1 103.1 106.8 108.2 107.3	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
(46. M)	125 87.8 89.1 89.6 90.4 91.7 93.4 95.0 97.1 99.4 102.9 105.6 105.1 104.1	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
VEHICLE CELL41	160 87.4 88.7 90.2 90.2 91.3 93.4 95.1 97.2 99.6 102.7 103.1 102.3 99.6	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
CONFIG NCS2	200 86.8 88.8 89.3 90.9 92.2 94.1 96.6 99.3 100.9 100.3 98.5 95.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
LOC C41 ANECH CH	250 87.6 88.6 89.9 90.4 92.3 93.6 95.3 97.2 99.6 102.7 103.1 102.3 99.6	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
DATE 06-07-76	315 87.2 88.3 90.0 90.3 91.4 93.3 94.7 96.8 98.8 100.9 100.3 98.5 95.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
RUN CONF1REPEATS	400 87.0 89.0 89.6 90.3 92.7 93.3 94.7 96.8 98.8 100.9 99.6 97.3 95.3	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
TAPE X00070	500 85.8 87.9 89.4 91.3 92.4 94.0 96.4 97.4 99.8 97.7 96.4 93.6	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
BAR 29.4 HG	630 85.7 87.0 87.8 89.6 90.7 92.3 93.4 95.9 97.1 96.8 97.2 96.1 95.3 93.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
(99381. N/M2)	800 84.7 86.5 87.5 88.3 90.4 91.7 93.6 95.1 96.8 97.1 96.8 97.2 96.1 95.3 93.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
TAMB 84. DEG F	1000 83.7 84.8 85.6 88.1 90.7 91.3 92.9 94.3 96.3 96.3 96.7 94.9 93.8 95.0	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
(302. DEG K)	1250 81.4 85.0 85.3 87.1 89.4 89.5 92.1 94.1 95.3 95.3 93.4 92.3 95.0	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
TWET 69. DEG F	1600 79.7 82.7 83.6 86.3 87.6 88.5 90.5 91.2 93.1 92.8 91.5 90.5 94.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
(294. DEG K)	2000 78.5 81.3 82.3 84.4 87.0 87.5 89.5 90.9 93.0 91.5 90.6 89.4 94.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
HACT13.18 GM/M3	2500 76.7 78.8 80.4 82.1 85.3 85.6 88.2 87.3 89.7 86.8 85.1 84.5 95.2	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
(.01318 KG/M3)	3150 74.9 78.5 78.9 80.2 82.9 82.9 86.5 84.4 87.7 83.7 83.4 80.9 92.2	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
FREQ. SHIFT	4000 75.9 81.8 83.6 84.7 85.7 85.9 88.4 87.9 87.1 85.5 81.2 80.5 91.4	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
JET	5000 76.0 82.0 84.5 84.7 85.0 85.5 88.5 88.0 87.0 82.3 79.5 78.8 90.5	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
DYAMETER RATIO	6300 74.6 79.2 82.7 81.6 80.6 80.9 88.6 80.6 80.9 82.1 82.4 79.9 87.0	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
DF/DM 8.00	8000 75.9 79.9 84.4 82.4 81.8 80.9 88.6 80.6 80.9 82.1 82.4 79.9 87.0	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
OVERALL CALCULATED	10000 81.6 85.6 92.2 87.8 86.9 87.5 95.6 83.1 84.4 86.1 83.5 74.1 84.7	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.
	PNDB 105.8 109.3 111.2 111.8 113.1 113.8 116.4 116.4 118.2 118.5 118.5 118.5 121.1	90. 100. 110. 120. 130. 140. 150. 160.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 7 SIZE FULL-1.17m²(1812in²)
 ACOUSTIC RANGE 45.7m(150ft.) ARC

NO EGA SIDELINE 2400 FT. (731.52 M)	FREQ.	FULL SIZE SOUND PRESSURE LEVELS					SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)											
		50	60	70	80	90	100	110	120	130	140	150	160					
	50	54.9	59.4	62.5	62.8	65.3	(1.43)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)
	80	55.4	61.1	65.1	64.9	67.6	68.9	70.8	72.3	76.0	79.4	80.1	76.1	75.3	72.9	74.1	69.5	66.5
NFA (1. RPM)	100	57.6	60.9	62.6	64.8	66.6	68.4	69.9	71.8	73.8	76.3	78.4	77.5	72.9	74.1	69.5	66.5	64.2
NFA (0. RAD/SEC)	125	59.3	62.2	63.8	65.3	67.1	68.9	70.4	72.1	73.6	76.0	77.5	72.5	72.5	66.5	64.2	61.5	59.0
NFK (1. RPM)	160	58.7	61.6	64.3	65.1	66.6	68.9	70.3	72.8	73.8	76.0	75.5	74.2	70.8	64.2	61.5	59.0	57.9
NFK (0. RAD/SEC)	200	57.8	61.2	63.2	64.9	67.2	68.7	70.2	71.7	72.6	74.3	72.2	68.3	61.5	59.0	57.9	55.3	53.3
NFD (7500. RPM)	250	58.4	61.2	63.5	64.6	66.1	68.2	69.4	71.3	72.8	72.8	72.8	69.6	64.5	57.9	55.3	53.3	53.9
NFD (785. RAD/SEC)	315	57.7	60.5	62.7	64.3	67.1	67.9	69.1	70.8	72.0	72.0	72.0	69.1	64.5	57.9	55.3	53.3	53.9
AIRFLOW RATIO	400	57.0	60.9	62.7	64.3	67.1	67.9	69.1	70.8	72.0	72.0	72.0	69.1	64.5	57.9	55.3	53.3	53.9
WF/HM 8.00	500	55.3	59.3	61.4	63.1	65.4	66.7	68.2	70.1	70.2	71.2	67.2	62.9	55.3	53.3	53.9	53.9	53.9
	630	54.5	57.9	60.1	62.8	64.4	66.2	67.1	69.0	69.4	69.4	67.3	64.0	58.9	54.6	51.8	51.8	51.8
	800	52.6	56.6	59.2	60.9	63.5	65.0	66.7	67.6	68.4	67.2	65.2	61.7	56.8	51.8	51.8	51.8	51.8
VEHICLE CELL41	1000	50.5	54.0	56.4	59.9	63.1	63.9	65.3	66.2	67.2	67.2	65.2	61.7	56.8	51.8	51.8	51.8	51.8
CONFIG NCS2	1250	46.8	53.1	55.2	58.0	60.9	61.3	63.7	65.0	65.2	63.4	58.9	53.6	48.9	44.7	44.7	44.7	44.7
LOC C41 ANECH CH	1600	43.2	49.2	52.0	56.0	57.9	59.0	60.8	61.5	61.5	59.3	55.0	49.3	44.7	44.7	44.7	44.7	44.7
DATE 06-07-76	2000	39.7	45.8	49.0	52.5	55.8	56.6	58.3	59.0	59.7	56.1	51.8	45.2	40.3	34.5	34.5	34.5	34.5
RUN CONF1REPEATS	2500	34.5	40.5	44.7	47.9	52.0	52.6	54.9	53.1	54.0	48.5	43.0	36.0	31.2	21.2	21.2	21.2	21.2
TAPE X00070	3150	27.3	35.7	39.2	42.4	46.2	46.5	49.8	46.6	48.0	40.9	35.9	25.4	21.2	14.5	14.5	14.5	14.5
FAN TIP SPEED	4000	20.3	32.4	38.0	41.5	43.8	44.4	46.5	44.7	41.5	33.1	25.6	14.5	14.5	14.5	14.5	14.5	14.5
FT/SEC	5000	15.7	28.7	35.5	38.4	40.1	41.1	43.6	41.7	38.0	29.0	19.2	6.7	6.7	6.7	6.7	6.7	6.7
	6300	0.6	14.4	23.6	26.0	27.0	27.6	33.3	26.5	23.4	15.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	8000		9.8	12.6	14.7	14.6	14.6	21.5	10.9	6.4								
OVERALL CALCULATED	10000	68.2	71.7	73.8	75.6	77.6	79.3	80.7	82.4	83.8	85.7	86.9	86.1	82.1	82.1	82.1	82.1	82.1
PNdB		70.7	75.2	77.7	79.8	82.4	83.6	85.2	86.5	87.4	87.8	86.2	83.5	77.7	77.7	77.7	77.7	77.7

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 7 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-1.17m²(1812in²) SIZE

RDG. NO.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
NO EGA	63	63	63	63	63	63	63	63	63	63	63	63	63	63
RADIAL	40.	40.	40.	40.	40.	40.	40.	40.	40.	40.	40.	40.	40.	40.
VEHICLE	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141	CEL141
CONFIG	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52	NC52
LOC	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH	C41 ANECH CH
DATE	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76	06-07-76
RUN	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS	CONFIREPEATS
TAPE	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080	A00080
BAR	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG	29.4 HG
(99381. N/M2)														
TAMB	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F	84. DEG F
(302. DEG K)														
TWET	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F	69. DEG F
(294. DEG K)														
HACT	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3	13.69 GM/M3
(.01369 KG/M3)														
FREQ. SHIFT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JET	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIAMETER RATIO														
DF/DM	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
OVERALL MEASURED														
OVERALL CALCULATED	98.5	101.5	101.9	102.8	104.2	105.1	106.6	109.0	111.4	113.3	114.7	116.3	116.3	
PNDB	110.7	113.0	113.4	114.6	116.1	117.5	119.1	121.8	124.0	125.8	125.7	126.6	126.4	

SIZE
 MODEL-183cm²(28.3in²)

ANCHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION / TEST POINT ACOUSTIC RANGE
 1 ✓ 12.2m(40ft.) ARC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

RDG. NO.	NO EGA	RADIAL (65. M)	VEHICLE	LOC	DATE	RUN	TAPE	BAR	TAMB	TWET	HACT	FREQ. SHIFT	JET	DIAMETER RATIO	DF/DM	PROC. DATE - MONTH 8 DAY 25 HR. 17.0																												
																FREQ.	INLET IN-DEGREES	70 PERCENT REL.	HUM. DAY - JENOTS)																									
50	63	80	CELL41	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
160	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		(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)	(2.96)															
250	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
315	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
400	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
500	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
630	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
800	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
1000	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
1250	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
1600	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
2000	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
2500	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
3150	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
4000	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
5000	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
6300	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
8000	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
10000	88.4	89.7	NC52	C41	06-07-76	CONFIREPEATS	X000RO	29.4 HG	84. DEG F	69. DEG K	13.69 GM/M3	01369 KG/M3	9	8.00		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.																
OVERALL CALCULATED																105.7	108.9	109.9	110.5	111.7	112.3	113.6	115.8	118.3	119.8	120.7	122.1	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8
PNOB																117.1	120.9	122.0	123.1	124.5	123.8	124.4	125.6	128.3	128.0	127.2	130.0	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 8 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-1.17m²(1812in²)

PROC. DATE - MONTH 8 DAY 25 HR. 17.0

		FULL SIZE SOUND PRESSURE						LEVELS SCALED FROM MODEL DATA						ANGLES FROM INLET IN DEGREES (AND RADIAN'S)						70 PERCENT REL. HUM. DAY					
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	0.	0.	0.	0.	0.	0.		
		(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)	(3.2)	(3.4)	(3.6)	(3.8)	(4.0)	(4.2)	(4.4)			
FREQ.		50	60.1	63.4	66.5	67.7	69.3	70.8	72.1	74.3	76.0	79.8	83.9	83.3	79.1										
NO EGA		63	60.1	63.0	66.1	67.6	69.4	71.9	72.9	74.6	76.8	80.5	83.2	83.3	79.1										
SIDELINE	2400. FT.	80	61.4	65.0	66.6	68.6	70.9	72.2	74.2	76.1	77.9	80.8	82.7	82.3	77.6										
(731.52 M)		100	62.6	66.2	68.1	70.1	72.4	73.9	75.4	77.6	79.1	81.3	82.9	80.2	76.1										
NFA	(0. RAD/SEC)	125	64.3	67.4	69.1	70.1	72.4	73.9	75.4	77.6	79.1	81.3	82.9	80.2	76.1										
NFK	(0. RAD/SEC)	160	63.4	66.9	70.0	71.1	73.3	74.4	75.3	78.1	79.5	81.2	79.7	77.2	72.0										
NFD	(7500. RPM)	200	63.6	67.2	69.4	70.7	73.2	74.5	75.8	77.3	80.0	81.2	79.7	76.3	70.9										
(785. RAD/SEC)		315	63.4	67.3	69.0	71.1	72.6	74.4	76.4	78.3	80.3	81.3	78.5	75.1	69.0										
AIRFLOW RATIO		400	63.7	67.4	69.0	71.3	73.1	74.9	76.4	78.6	80.2	80.3	76.9	73.7	68.2										
WF/WM	8.00	500	62.1	66.6	68.7	70.3	72.7	73.4	75.9	78.8	79.2	79.2	75.4	72.9	67.0										
VEHICLE	CELL 61	630	61.5	65.9	68.1	70.5	71.9	73.9	75.4	78.0	78.9	78.3	74.2	72.7	67.9										
LOC	641 ANECH CH	1000	60.7	66.5	67.1	69.9	72.0	74.0	75.5	77.1	78.6	77.0	73.5	73.4	67.6										
DATE	06-07-76	1250	59.3	66.8	68.1	69.2	71.4	73.4	74.6	75.9	77.6	76.4	71.4	72.3	66.0										
RUN	CONF1REPEATS	2000	55.9	64.3	66.7	68.4	69.4	69.2	70.3	71.4	72.7	74.1	70.1	70.0	63.1										
TAPE	X00080	2500	49.0	56.7	61.4	65.6	68.4	65.8	68.3	69.2	70.9	68.0	63.3	66.3	58.4										
FAN TIP SPEED	FT/SEC	4000	41.0	49.4	53.4	58.3	61.8	61.6	60.7	59.0	60.4	61.2	53.4	53.9	43.7										
OVERALL CALCULATED		5000	26.3	37.2	44.8	48.9	50.9	51.2	51.2	49.0	41.4	41.4	33.0	33.1	14.6										
PN0B		6300	11.1	23.9	33.8	38.2	38.9	40.6	39.7	39.0	36.8	28.0	17.3	5.5											
		8000		6.7	19.7	23.5	25.3	26.5	25.6	23.5	21.2	10.2													
		10000			4.9	8.4	10.5	13.0	10.8	5.4	4.9														
			74.3	78.6	80.5	82.3	84.2	85.6	87.1	89.1	90.7	91.8	91.6	90.1	85.7										
			75.2	85.6	88.0	90.2	92.2	92.0	93.0	94.8	96.2	95.8	93.1	90.9	84.8										

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 8 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-1.17m²(1812in²)

FREQ.	40.	50.	60.	70.	80.	ANGLES FROM INLET IN DEGREES (AND RADIANS)					O.						
	(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	92.3	94.1	95.3	95.8	97.4	99.1	100.2	102.8	106.3	112.6	117.3	119.0	118.1				
63	93.1	94.1	95.6	96.2	98.0	99.9	101.3	103.9	107.6	114.0	117.9	119.1	118.1				
80	94.2	96.2	96.5	97.3	99.6	101.0	102.9	105.3	108.7	114.3	117.0	118.0	117.7				
100	95.7	97.3	97.8	98.8	100.4	102.0	103.9	106.3	110.3	115.3	116.3	117.5	117.0				
125	97.1	98.6	99.1	99.9	101.5	103.6	104.5	107.1	110.6	115.2	115.4	115.6	115.9				
160	96.9	98.7	100.7	100.2	101.6	103.7	105.1	108.7	112.2	115.3	115.0	115.2	115.9				
200	97.3	99.6	100.1	101.1	102.7	104.8	105.5	108.4	112.8	115.4	115.9	117.3	116.8				
250	98.3	99.9	100.9	101.2	103.3	104.4	106.8	109.9	113.6	116.2	116.2	117.4	117.1				
315	98.2	100.3	101.8	102.1	103.4	105.0	107.4	110.3	114.0	116.1	116.8	119.2	118.3				
400	99.7	101.8	102.6	102.8	104.4	105.5	107.9	111.3	114.8	116.9	119.1	120.0	118.3				
500	100.1	102.4	102.7	103.2	104.0	105.6	107.5	111.9	114.4	117.3	119.2	119.6	116.1				
630	105.0	107.5	106.3	104.6	104.9	106.5	108.4	112.1	114.3	116.9	119.4	119.0	115.3				
800	107.7	112.0	110.8	107.8	106.6	107.7	108.9	112.1	114.3	117.2	118.3	117.2	114.2				
1000	104.7	109.0	111.3	112.3	109.6	108.5	109.4	112.6	114.1	117.0	117.4	116.3	113.5				
1250	100.9	106.0	108.1	111.3	113.9	109.7	109.5	110.6	111.8	114.1	114.4	113.0	112.5				
1600	99.9	104.7	105.6	107.3	110.4	110.7	109.5	110.6	111.8	114.1	114.4	113.0	111.0				
2000	99.0	103.3	105.0	106.4	108.2	108.8	110.0	110.2	111.5	112.3	113.4	111.9	110.3				
2500	96.7	100.5	102.2	104.8	107.8	108.8	108.6	108.0	109.4	110.0	109.3	108.5	108.4				
3150	94.8	99.2	100.4	102.9	105.6	105.1	106.5	106.4	108.6	107.6	109.6	105.4	103.7				
4000	93.6	98.2	100.8	103.4	105.9	105.1	105.3	107.1	107.8	107.2	107.6	106.2	104.9				
5000	91.7	96.7	100.2	103.6	103.9	104.4	104.4	106.4	106.7	107.9	108.7	105.9	105.7				
6300	89.5	94.9	98.3	102.7	101.7	102.1	102.5	104.4	105.3	107.5	109.2	105.1	104.1				
8000	89.3	94.3	99.9	102.9	102.1	102.8	102.9	104.2	105.7	108.5	110.7	104.7	104.3				
10000	93.4	97.9	104.9	108.6	106.9	108.0	107.1	107.3	109.2	113.5	116.9	108.0	109.5				
OVERALL CALCULATED	113.5	117.1	118.1	119.1	120.0	119.8	120.6	123.0	125.5	128.4	129.9	130.0	128.7				
PND8	123.1	127.0	128.4	130.0	131.7	131.6	132.7	133.9	135.8	137.6	138.8	137.7	136.4				

NO EGA
RDG. NO. 0.
RADIAL 150. FT.
(46. M)

VEHICLE CELL41
CONFIG NC52
LOC C41 ANECH CH
DATE 06-07-76
RUN CONF1REPEATS
TAPE X00090
BAR 29.4 HG
(99381. N/M2)

TAMB 84. DEG F
(302. DEG K)
TWET 69. DEG F
(294. DEG K)
HACT13.44 GM/M3
(.01344 KG/M3)

FREQ. SHIFT 9
DIAMETER RATIO
DF/DW 8.00

OVERALL CALCULATED
PND8

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION / TEST POINT 9 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-1.17m²(1812in²)

NO EGA (731.52 M) SIDELINE 2400. FT.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)													
	FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
50	64.1	67.4	69.8	71.1	73.1	74.8	75.8	78.1	80.8	86.0	89.7	88.6	84.2	0.
63	65.9	67.5	70.1	71.3	73.6	75.6	76.9	79.1	82.1	87.3	89.7	88.6	84.1	0.
80	67.3	70.4	72.1	73.8	75.9	77.6	79.4	81.3	84.6	88.5	87.9	86.7	82.6	0.
100	68.5	71.7	73.3	74.8	76.9	79.1	79.9	82.1	84.8	88.3	86.8	84.6	81.2	0.
125	68.2	71.6	73.8	75.1	76.8	79.1	80.3	83.6	86.3	88.2	86.2	85.0	81.0	0.
160	68.3	72.3	74.0	75.8	77.8	80.1	80.6	83.1	86.7	88.4	86.9	85.8	81.4	0.
200	69.1	72.4	74.6	75.7	78.2	79.5	81.7	84.4	87.4	88.8	87.0	85.6	81.3	0.
250	68.7	72.5	75.3	76.3	78.1	79.9	82.4	85.3	88.0	88.8	87.3	87.0	81.7	0.
315	69.7	73.7	75.7	76.8	78.9	80.2	82.4	85.3	88.0	88.8	87.2	87.2	80.9	0.
400	69.6	73.8	75.4	76.8	78.2	79.9	81.7	85.6	87.2	88.7	88.7	86.1	77.8	0.
500	73.8	78.4	78.6	77.8	78.6	80.4	82.1	85.3	86.6	87.8	88.2	83.7	75.6	0.
630	75.6	82.1	82.4	80.4	79.7	81.0	82.0	84.6	85.9	87.3	86.2	81.7	72.8	0.
800	71.5	78.2	82.1	84.2	82.1	81.1	81.8	84.4	84.9	86.2	84.2	79.3	70.0	0.
1000	66.3	74.1	77.9	82.2	85.4	81.5	80.7	83.2	83.2	84.1	81.4	76.3	66.4	0.
1250	63.4	71.2	74.0	76.9	80.7	81.2	79.8	80.2	80.3	80.5	78.0	71.8	61.1	0.
1600	60.2	67.8	71.7	74.5	77.0	77.9	78.8	78.2	78.2	76.8	74.6	67.6	56.0	0.
2000	54.5	62.3	66.4	70.6	74.5	73.8	75.3	73.8	73.7	71.8	67.2	59.9	47.7	0.
2500	47.3	56.4	60.7	65.1	68.9	68.7	69.8	68.6	69.0	64.9	62.1	49.8	34.7	0.
3150	38.0	48.8	55.2	60.2	64.0	63.6	63.4	63.9	62.2	57.7	52.0	40.1	18.4	0.
4000	31.4	43.3	51.1	57.3	59.0	60.0	59.5	60.1	57.7	54.6	48.4	33.8	10.2	0.
5000	15.5	30.1	39.2	47.1	48.1	49.0	48.9	48.8	46.2	42.7	35.2	15.1	0.	0.
6300	11.9	25.4	33.2	35.0	35.8	36.5	35.8	34.5	31.2	26.1	15.5	0.	0.	0.
8000	8.9	19.1	21.0	21.0	23.2	21.2	17.9	13.2	6.7	0.	0.	0.	0.	0.
10000	87.8	87.0	88.9	90.2	91.6	91.9	93.0	95.5	97.6	99.6	99.4	97.6	92.7	0.
PNDB	87.8	93.9	95.8	97.8	100.3	100.5	101.0	102.1	103.6	104.6	103.9	101.1	94.4	0.

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 9 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-1.17m²(1812in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 25 HR. 17.4

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

ANGLES FROM INLET IN DEGREES (AND RADIAN) 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. C. 0. 0. PUL

RDG. NO.	NO EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	C.	0.	0.	PUL
100	84.9	94.7	92.7	94.0	95.5	95.4	95.8	97.0	97.4	99.2	102.9	102.6	105.4	143.4					
125	84.3	89.4	89.9	91.9	94.0	95.4	96.5	97.7	96.1	95.9	103.9	105.8	106.9	141.0					
160	83.4	86.7	90.9	90.5	91.3	91.9	91.8	94.2	95.4	95.4	100.7	105.9	106.6	142.0					
200	86.3	87.5	88.5	89.8	90.9	93.0	94.2	96.3	99.3	104.1	107.8	112.3	113.3	145.8					
250	85.1	88.3	90.6	90.9	92.5	93.8	95.7	98.1	103.8	105.7	111.9	114.0	115.1	148.1					
315	87.2	91.4	90.2	92.2	94.6	95.9	97.1	99.7	102.9	109.0	114.5	116.9	116.4	150.4					
400	89.7	91.2	93.2	93.0	94.6	96.2	97.3	100.8	105.2	112.0	116.7	118.2	116.5	152.9					
500	90.8	91.8	93.3	93.8	95.4	97.3	98.7	101.8	106.3	114.1	118.1	119.0	117.0	153.1					
630	92.1	93.6	94.1	95.4	96.3	98.4	100.5	103.7	108.1	114.2	118.7	119.6	118.1	153.8					
800	94.1	94.7	95.4	96.5	97.5	99.9	102.0	105.0	109.7	115.2	119.4	120.6	119.2	154.8					
1000	96.7	97.7	98.5	98.0	99.6	100.7	102.1	105.8	109.8	114.6	119.3	121.0	119.2	154.8					
1250	96.0	98.6	99.8	99.6	100.7	102.6	104.0	106.9	111.1	114.7	119.9	122.0	119.1	155.5					
1600	96.2	97.7	98.2	98.7	100.8	102.4	103.6	107.0	111.2	114.3	120.0	121.4	118.2	155.2					
2000	97.9	98.2	99.5	99.5	101.4	102.0	104.9	108.0	112.5	114.8	120.3	120.0	115.7	154.9					
2500	101.1	99.8	99.9	100.4	101.7	102.1	105.2	108.4	112.4	114.7	119.4	118.1	113.6	154.0					
3150	103.3	103.6	103.1	102.4	102.5	103.3	105.5	109.4	113.1	116.4	119.1	116.8	112.8	154.3					
4000	102.5	103.6	104.9	103.2	103.0	102.9	105.5	109.7	112.4	116.5	116.4	115.6	110.1	153.3					
5000	100.9	102.5	104.0	105.3	104.6	104.7	106.1	109.8	112.3	115.6	115.8	114.0	109.2	152.9					
6300	100.5	102.1	102.6	103.9	105.7	106.8	107.0	109.1	112.4	115.2	115.7	113.8	110.3	152.9					
8000	99.8	101.1	101.7	103.2	105.5	106.9	107.8	109.0	112.0	114.4	114.8	112.9	109.1	152.5					
10000	98.0	101.3	101.7	103.4	105.5	105.3	106.5	108.4	110.9	113.3	111.6	108.3	107.4	151.7					
12500	95.9	99.4	99.8	101.5	103.8	104.4	105.2	106.5	108.6	110.3	111.6	109.5	107.4	150.3					
16000	94.2	97.3	98.5	100.4	102.4	102.5	104.0	105.2	107.5	108.3	109.9	108.4	106.8	149.6					
20000	91.5	93.6	95.3	97.4	100.9	99.9	101.5	102.1	104.3	105.1	104.9	102.3	108.7	147.6					
25000	88.7	91.5	92.2	94.0	96.7	96.6	98.1	98.4	102.2	102.1	103.9	98.5	105.5	146.3					
31500	85.8	89.7	91.0	92.6	94.2	94.6	95.3	98.1	99.5	99.9	101.1	97.9	103.3	146.4					
40000	81.9	85.6	88.1	90.0	90.8	90.6	91.1	94.3	96.1	98.6	98.8	94.6	99.9	146.6					
50000	76.8	80.8	84.7	84.9	84.7	85.5	85.5	89.1	91.7	94.6	96.9	90.3	95.0	148.9					
63000	72.6	76.1	80.7	80.5	79.2	80.1	80.7	84.7	87.2	91.5	93.2	84.0	90.1	149.1					
80000	69.2	73.1	79.1	76.8	75.6	76.7	76.4	80.0	85.1	90.2	92.1	77.2	87.7	156.6					

OVERALL MEASURED
OVERALL CALCULATED

111.1 112.5 113.2 113.8 115.2 115.9 117.3 120.0 123.4 126.9 130.4 130.9 128.7
124.6 125.6 126.5 127.0 128.0 129.3 132.7 135.1 139.7 142.7 142.0 138.9

ANCHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
1 10 12.2m(40ft.) ARC MODEL-183cm²(28.3in²)

REQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	PWL
RDG. NO.	50	96.3	97.8	99.8	101.2	102.8	103.9	107.3	111.8	118.6	123.3	124.8	123.1	170.0		
RADIAL 150. FT.	63	97.4	98.4	99.9	100.4	102.0	103.9	105.3	108.4	112.9	120.7	124.7	125.6	171.2		
(46. M)	80	98.7	100.2	100.7	102.0	103.1	104.2	106.5	108.7	114.7	120.8	125.3	126.2	171.9		
VEHICLE CELL41	100	100.7	101.3	102.0	103.1	104.2	106.5	108.7	111.6	116.3	121.8	126.1	127.2	172.9		
CONFIG NC52	125	103.3	104.4	105.1	104.6	106.2	107.4	108.7	112.4	116.4	121.2	125.9	127.6	173.6		
LOC C41 ANECH CH	160	102.7	105.2	106.5	106.2	107.3	109.2	110.6	113.5	117.7	121.3	126.5	128.7	173.0		
DATE 06-07-76	250	104.6	104.9	106.2	106.2	108.0	108.6	111.5	114.7	119.2	121.5	126.9	128.0	173.3		
RUN CONFIREPEATS	315	107.7	106.5	106.5	107.1	108.4	108.8	111.9	115.1	119.0	121.4	126.1	127.4	173.0		
TAPE X00100	400	110.0	110.3	109.8	109.1	109.2	110.0	112.2	116.1	119.8	123.2	125.9	123.5	172.3		
BAR 29.4 HG	500	109.3	110.4	111.7	109.9	109.8	109.6	112.3	116.4	119.2	123.3	122.4	122.4	171.4		
(99381. M/M2)	630	107.4	109.0	109.5	110.8	112.6	113.7	113.9	116.1	119.3	122.2	122.6	120.7	170.9		
TAMB 36. DEG F	1000	106.9	108.3	108.8	110.3	112.6	114.0	114.9	116.1	119.1	121.5	121.9	120.0	170.6		
(303. DEG K)	1250	105.4	108.7	109.1	110.8	112.9	112.7	113.9	115.8	118.3	120.0	120.7	119.0	169.7		
TWET 70. DEG F	1600	103.7	107.2	107.6	109.3	111.6	112.2	113.0	114.3	116.3	118.0	117.2	115.2	168.3		
(294. DEG K)	2000	102.7	105.8	107.0	108.9	110.9	111.0	112.5	113.6	116.0	116.7	118.3	116.8	167.7		
HACT13.99 GM/M3	2500	100.9	103.0	104.6	106.7	110.2	109.3	110.8	111.5	113.6	114.5	114.3	111.7	165.7		
(.01399 KG/M3)	3150	99.3	102.1	102.8	104.6	107.3	107.3	108.7	109.1	112.8	112.8	114.6	109.1	164.4		
FREQ. SHIFT	4000	98.3	102.2	103.4	105.1	107.3	107.0	107.8	110.5	111.9	112.3	113.5	110.4	164.4		
JET	5000	97.4	101.1	103.5	105.5	106.3	106.1	106.5	109.8	111.6	114.0	114.3	110.1	164.7		
DIAMETER RATIO	6300	95.9	100.0	103.9	104.1	103.9	104.7	104.7	108.3	110.9	113.8	116.1	109.5	165.0		
DF/DM 8.00	8000	97.2	100.6	105.2	105.0	103.7	104.6	105.3	109.3	111.8	116.1	117.8	108.5	167.2		
OVERALL CALCULATED	10000	101.8	105.7	111.7	109.4	108.2	109.3	109.0	112.7	117.8	122.8	124.7	109.8	174.6		
	PND8	127.6	130.0	131.4	132.5	134.4	134.5	135.8	137.8	140.7	143.2	145.4	143.1	184.7		

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 1 /O 45.7m(150ft.) ARC FULL-1.17m²(1812in²)

NO EGA SIDELINE 2400. FT. (731.52 M.)	FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)						70	80	90	100	110	120	130	140	150	160	
		40	50	60	70	80	90											
50	63.1	71.2	74.3	75.6	77.6	79.6	80.9	83.6	87.3	94.0	96.4	95.1	89.6					
80	70.4	73.5	75.1	77.1	78.4	80.7	82.7	85.4	89.1	94.1	96.9	95.6	90.6					
100	72.3	74.4	76.3	78.1	79.6	82.1	84.1	86.6	90.6	95.0	97.6	96.5	91.4					
125	74.8	77.4	79.3	79.6	81.6	85.9	84.1	87.3	90.6	94.3	97.3	96.6	91.2					
160	73.9	78.1	80.5	81.1	82.6	84.6	85.8	88.3	91.8	94.2	97.7	97.5	90.7					
200	73.8	77.1	78.8	80.1	82.6	84.3	85.3	88.3	91.8	93.7	97.7	96.6	89.4					
(0. RAD/SEC)	250	75.4	77.4	79.9	80.7	83.0	83.7	86.5	89.2	92.9	94.0	97.7	94.8	86.5				
(0. RAD/SEC)	315	78.2	78.8	80.0	81.4	83.2	83.7	86.7	89.4	92.5	93.6	96.5	92.5	83.7				
(785. RAD/SEC)	400	80.0	82.2	83.0	83.1	83.6	84.7	86.6	90.1	93.0	95.0	95.9	90.7	82.2				
AIRFLOW RATIO	500	78.8	81.8	84.4	83.6	83.9	83.9	86.4	90.1	91.9	94.7	92.7	88.9	78.5				
WF/WM 8.00	630	76.5	80.2	83.1	85.3	85.1	85.4	86.6	89.8	91.4	93.3	91.4	86.4	76.4				
VEHICLE	800	75.3	79.1	81.2	83.4	85.7	87.0	88.6	90.9	92.3	90.5	85.2	75.8					
CELL 41	1000	73.7	77.5	79.6	82.2	85.1	86.6	87.3	87.9	89.9	90.7	88.7	83.1	72.8				
NC52	1250	70.8	76.8	78.9	81.7	84.4	84.5	85.4	86.7	88.2	88.1	86.1	80.3	69.6				
LOC C41 ANECH CH	1600	67.2	73.7	76.0	78.9	81.9	82.7	83.3	83.9	84.7	84.5	82.9	76.0	65.4				
DATE 06-07-76	2000	63.9	70.3	73.7	77.0	79.8	80.1	81.3	81.7	82.7	81.3	79.5	72.6	61.0				
RUN CONF1 REPEATS	2500	58.7	64.7	68.9	72.6	76.9	76.3	77.5	77.3	77.9	76.2	72.2	63.1	57.4				
TAPE X00100	3150	51.7	59.4	63.1	66.8	70.6	70.9	72.0	71.3	73.1	70.0	67.0	53.5	45.1				
FAN TIP SPEED	4000	42.6	52.7	57.8	61.9	65.4	65.5	65.9	67.3	66.3	62.9	57.9	44.3	29.3				
FT/SEC	5000	37.1	47.7	54.5	59.2	61.4	61.7	61.7	63.5	62.6	60.7	54.0	38.0	19.9				
	6300	21.9	35.2	44.8	48.5	50.2	51.6	51.0	52.7	51.8	49.0	42.0						
	8000	2.0	18.3	30.7	35.3	36.6	38.3	38.1	39.6	37.2	33.7	22.6						
	10000			15.7	20.0	22.3	24.6	23.1	23.2	21.7	16.0	0.2						
OVERALL CALCULATED		87.2	90.1	92.2	93.4	95.1	96.2	97.6	100.0	102.8	105.4	107.5	105.6	99.4				
PNDB		92.8	96.3	98.8	100.4	102.7	103.5	104.6	106.3	108.7	110.3	110.8	107.6	99.9				

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 10 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-1.17m²(1812in²) SIZE

RDG. NO.	NO EGA	ANGLES FROM INLET IN DEGREES (AND RADIAN)											PWL		
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.		150.	160.
125	79.8	84.6	86.1	88.2	89.5	91.0	91.2	91.5	92.2	93.2	95.0	99.2	98.6	102.2	136.6
160	80.4	82.9	86.2	88.5	87.0	87.7	88.0	89.7	92.4	91.6	91.7	100.1	101.8	101.6	136.3
200	83.5	84.3	85.3	87.6	88.4	89.8	90.7	92.6	96.3	100.6	105.1	108.8	109.3	142.3	
250	82.1	85.8	87.1	88.7	90.3	92.5	92.5	94.6	97.3	103.2	109.1	110.5	110.3	144.5	
315	84.2	88.2	89.7	90.2	91.6	93.5	94.6	97.7	103.2	109.5	114.7	115.7	113.5	149.5	
400	86.7	88.2	89.7	90.2	91.6	93.5	94.6	97.7	103.2	109.5	114.7	115.7	113.5	151.9	
500	87.3	88.8	90.5	91.3	92.7	94.5	96.1	98.0	101.4	107.6	115.0	118.9	115.4	153.1	
630	89.4	91.1	91.4	92.7	94.5	96.1	98.0	101.4	107.6	115.0	118.9	115.4	115.4	154.8	
800	91.9	92.4	93.4	94.7	96.3	97.4	99.5	102.7	109.7	117.2	120.4	119.9	116.4	155.6	
1000	96.0	97.2	99.2	99.0	99.1	99.2	101.6	104.3	109.7	118.3	121.0	119.9	116.7	155.7	
1250	95.3	97.1	99.1	99.6	100.2	101.8	102.7	105.6	111.1	118.4	121.1	120.5	116.3	155.6	
1600	94.6	96.2	96.4	97.5	98.6	101.4	102.6	106.2	111.7	119.0	121.2	119.4	115.2	155.6	
2000	95.4	97.2	98.5	98.8	99.6	101.5	103.6	107.0	111.5	118.3	120.8	118.2	113.0	155.0	
2500	95.5	96.8	98.6	99.6	100.7	101.8	103.9	106.9	112.1	116.7	118.9	116.0	110.8	153.5	
3150	96.5	98.0	98.8	99.6	100.7	102.0	103.9	108.1	112.6	117.1	117.8	114.8	110.3	153.3	
4000	97.3	99.6	99.3	99.4	100.7	101.8	104.2	107.6	111.6	115.9	115.6	113.0	107.8	152.0	
5000	98.6	102.9	102.7	101.5	102.1	102.2	103.8	108.0	111.7	114.6	115.0	111.9	107.9	151.5	
6300	97.7	103.3	104.3	103.6	103.4	103.3	104.4	107.3	111.1	113.7	113.4	111.8	107.5	151.1	
8000	96.3	101.3	102.9	104.7	105.5	104.1	104.7	107.2	110.2	112.8	113.0	110.1	106.8	150.8	
10000	93.4	100.3	101.1	102.9	104.9	103.8	103.9	106.6	109.1	111.3	111.0	108.8	106.0	148.6	
12500	90.8	97.9	99.5	100.7	102.7	102.9	103.4	104.9	106.7	109.2	109.3	106.6	104.1	148.0	
16000	88.9	96.2	97.4	99.8	101.6	101.7	102.9	103.8	106.7	109.7	109.3	105.5	103.0	146.8	
20000	85.4	92.5	95.4	96.8	100.3	99.1	100.9	100.8	104.0	105.8	105.4	103.0	100.4	145.5	
25000	81.8	90.4	92.3	93.4	96.3	96.0	96.8	97.6	101.4	103.0	104.1	98.8	97.1	145.0	
31500	78.7	88.3	91.0	92.4	94.4	93.9	94.9	96.2	99.3	100.7	101.4	97.9	94.9	146.2	
40000	73.1	83.8	88.0	88.5	90.0	89.8	91.0	93.4	95.5	99.2	99.7	93.5	90.3	145.7	
50000	66.8	79.0	82.3	83.3	83.7	84.2	85.7	86.9	89.9	95.0	96.3	88.7	85.0	147.6	
63000	62.1	74.9	77.6	78.5	77.5	78.4	81.5	81.1	84.9	91.1	91.6	83.2	77.9	152.7	
80000	57.4	70.8	74.3	71.9	71.3	72.9	76.8	75.0	80.1	87.7	87.8	79.2	72.7	165.9	
OVERALL MEASURED		107.3	111.0	112.1	112.7	113.9	114.1	115.4	118.3	122.6	128.1	130.4	129.2	125.7	
OVERALL CALCULATED		120.3	123.8	124.5	124.5	125.1	125.8	127.5	130.9	135.3	140.3	141.9	140.0	136.1	

VEHICLE CELL41
 CONFIG NC40
 LOC C41 ANECH CH
 DATE 05-28-76
 RUN COMFLOWLHC
 TAPE X00120
 BAR 29.3 HG
 (99111. N/M2)
 TAMB 63. DEG F
 (290. DEG K)
 TWT 59. DEG F
 (288. DEG K)
 HACT11.42 GM/M3
 (4.01142 KG/M3)
 JET
 DIAMETER RATIO
 DF/DH I

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACQUSTIC RANGE SIZE
 | 12 12.2m(40ft.) ARC MODEL-71.3cm²(11.1in²)

RDG. NO.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
50	89.3	93.4	92.6	94.4	96.8	97.9	99.0	100.9	105.1	111.7	116.9	119.3	117.9	166.2
63	71.9	93.4	94.0	95.7	96.8	98.7	99.8	102.9	108.4	114.7	119.9	120.9	118.7	168.5
80	92.5	94.0	95.7	96.5	97.9	99.7	100.9	104.3	110.0	118.3	123.0	122.7	119.2	169.8
100	94.6	96.3	96.6	97.9	99.7	101.3	103.2	106.6	112.8	120.2	124.1	123.5	120.6	171.5
125	97.1	97.6	98.6	99.9	101.5	102.6	104.7	107.9	114.9	122.4	125.6	125.1	121.6	172.1
160	101.2	102.4	104.4	104.2	104.3	104.4	106.8	109.5	114.9	123.5	126.2	125.1	121.9	172.3
200	100.5	102.3	104.3	104.8	105.4	107.0	107.9	110.8	116.3	123.6	126.3	125.7	121.5	172.3
250	99.9	101.4	101.7	102.7	103.8	106.6	107.8	111.4	116.9	124.2	126.4	124.6	120.4	171.6
315	100.7	102.4	104.7	104.0	104.8	106.7	108.8	112.2	116.7	123.5	126.0	123.4	118.2	170.2
400	100.8	102.1	103.6	104.9	106.0	107.1	108.7	112.1	117.3	121.9	124.1	121.3	116.1	169.9
500	101.6	103.3	104.1	104.9	106.0	107.3	109.2	113.4	117.9	122.4	123.1	120.1	115.6	168.6
630	102.6	104.9	104.7	104.7	106.1	107.2	109.6	113.0	116.9	121.3	121.0	118.4	113.2	167.7
800	104.0	108.3	108.1	109.9	107.5	107.6	109.2	113.4	117.1	119.9	120.4	117.3	113.3	167.5
1000	103.2	108.8	109.8	109.1	108.9	108.8	109.9	112.8	116.6	119.2	118.9	117.2	113.0	167.4
1250	101.9	107.0	108.6	110.3	111.1	109.7	110.4	112.8	115.8	118.4	118.6	115.7	112.5	166.5
1600	99.3	106.2	107.0	108.8	110.8	109.7	109.8	112.5	115.0	117.2	116.9	114.7	111.9	165.1
2000	97.1	104.1	105.8	107.0	109.0	109.1	109.7	111.2	113.0	115.5	115.6	112.9	110.4	164.7
2500	95.9	103.2	104.4	106.8	108.0	108.6	109.9	110.8	113.6	114.6	114.0	112.5	109.9	163.5
3150	93.2	100.3	103.2	104.5	108.0	106.9	108.6	108.6	111.7	113.5	113.1	110.7	108.1	162.2
4000	90.7	99.3	101.2	102.2	105.2	104.9	105.7	106.5	110.2	111.9	113.0	107.7	106.0	162.7
5000	89.5	99.2	101.9	103.3	105.3	105.3	106.5	106.9	109.0	112.7	113.2	107.0	103.8	162.4
6300	86.6	97.3	101.5	102.0	103.5	103.3	104.5	106.9	109.0	112.7	113.2	105.6	101.9	162.4
8000	83.7	95.9	99.2	100.2	100.6	101.1	102.6	103.8	106.8	111.9	113.2	105.6	101.9	164.0
10000	84.0	96.8	98.6	100.4	99.4	100.3	103.5	103.0	106.9	113.0	113.5	105.1	99.8	169.3
12500	86.8	100.3	103.8	101.4	100.7	102.4	106.2	104.4	109.6	117.2	117.2	108.7	102.1	182.5
OVERALL CALCULATED	112.7	116.9	118.1	118.7	120.0	120.1	121.5	124.1	128.3	133.7	135.8	134.3	130.7	
PND	121.7	127.7	129.2	130.6	132.3	132.3	133.6	135.4	138.8	142.1	143.2	140.7	137.3	

AMECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 12 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 19.0

FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)					FULL SIZE SOUND PRESSURE ANGLES FROM INLET IN DEGREES (AND RADIAN)S)							
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
(0.70)(0.67)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0)	61.2	66.8	67.1	69.6	72.4	73.6	74.6	76.1	79.6	85.1	88.7	88.9	84.6
NO EGA	63	63.6	66.7	69.3	70.6	74.4	75.4	78.1	82.8	88.1	91.7	90.3	84.6
SIDELINE 2400. FT.	80	64.1	67.2	70.1	71.6	73.4	76.4	79.4	84.4	91.6	94.7	92.1	85.0
(731.52 M)	100	66.1	69.5	70.9	72.9	75.2	76.9	78.7	81.7	87.1	93.3	95.7	86.2
MFA (1. RPM)	125	68.5	70.7	72.8	74.8	76.9	78.1	80.1	82.8	89.1	95.5	97.1	87.0
(0. RAD/SEC)	160	72.4	75.4	78.5	79.1	79.6	79.8	82.1	84.3	89.0	96.4	97.5	94.0
MFK (0. RAD/SEC)	200	71.5	75.0	78.2	79.5	80.5	82.3	83.0	85.5	90.2	96.4	97.4	86.2
(7500. RPM)	250	70.6	73.9	77.4	77.2	78.7	81.8	82.7	85.9	90.6	96.8	97.2	84.5
NFD (785. RAD/SEC)	315	71.1	74.7	78.2	78.3	79.6	81.6	83.6	86.5	90.2	95.8	96.4	81.7
(785. RAD/SEC)	400	70.8	73.9	77.0	78.9	80.4	81.7	83.2	86.1	90.5	93.8	92.6	77.2
AIRFLOW RATIO	500	71.3	74.8	76.9	78.5	80.1	81.6	83.3	87.0	90.6	93.9	92.6	84.0
WF/WN 6.81	630	71.4	75.8	77.0	77.9	79.7	81.0	83.2	86.1	89.2	92.2	89.8	73.5
VEHICLE CELL41	800	71.9	78.4	79.7	79.4	80.6	80.9	82.3	85.9	88.7	90.1	88.4	71.9
CONFIG NC40	1000	70.0	78.0	80.6	80.9	81.3	81.4	82.3	84.7	87.4	88.4	85.7	69.5
LOC C41 ANECH CH	1250	67.4	75.1	78.4	81.2	82.7	81.5	81.9	83.7	85.6	86.5	84.1	66.4
DATE 05-28-76	1600	62.8	72.7	75.4	78.4	81.2	80.2	80.2	82.2	83.4	83.7	80.4	62.1
RUN CONF1LOWFLWC	2000	58.3	68.7	72.5	75.1	77.9	78.2	78.5	79.3	79.7	80.0	76.8	56.1
TAPE X00120	2500	53.7	64.9	68.6	72.6	75.3	75.6	76.6	76.6	77.9	76.4	71.8	49.2
FAN TIP SPEED	3150	45.7	57.5	63.5	66.7	71.3	70.5	71.9	70.8	72.0	70.8	65.6	37.1
FT/SEC	4000	35.1	49.8	55.6	59.0	63.3	63.5	63.8	63.3	64.7	62.5	57.3	19.5
	5000	29.2	45.8	52.9	57.0	60.4	60.3	60.9	60.8	61.2	58.2	51.9	36.7
	6300	12.6	32.5	42.4	46.4	49.9	50.2	50.9	51.3	49.9	47.9	39.2	17.0
	8000	13.6	33.5	42.4	46.4	49.9	50.2	50.9	51.3	49.9	47.9	39.2	17.0
	10000	3.5	11.0	13.5	15.6	17.6	17.6	13.6	10.8	6.2			
OVERALL CALCULATED	12500	81.7	86.5	88.9	90.2	91.7	92.6	93.9	96.6	100.4	105.4	106.2	95.2
PNUB	86.4	92.9	95.9	98.2	100.5	100.6	101.5	103.4	106.4	109.9	109.7	105.0	96.2

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 12 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in.²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

RDS. NO.	NO EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
100	79.6	89.9	87.9	89.5	91.0	91.4	91.8	92.2	93.4	95.0	98.9	98.6	101.7			
125	80.6	84.6	85.9	88.2	90.5	91.6	92.0	93.2	92.1	91.4	102.1	102.1	101.9			
150	80.3	83.7	86.7	87.2	87.8	88.2	88.8	89.7	92.4	91.4	102.1	103.4	105.4			
200	83.8	84.3	85.3	87.8	88.7	89.5	90.9	93.2	94.9	98.1	103.4	108.9	109.3			
250	83.1	85.8	87.1	87.9	88.7	90.3	93.2	94.9	98.1	103.4	108.9	110.3	110.6			
315	84.2	87.9	87.2	89.5	92.1	92.7	94.3	96.5	100.7	106.8	111.7	113.9	112.9			
400	87.2	88.0	90.2	90.7	92.1	94.0	94.8	98.0	103.2	110.0	114.7	115.4	113.5			
500	88.0	89.0	90.0	91.3	92.9	95.3	96.7	99.3	105.3	113.6	116.8	116.5	113.8			
630	89.9	91.6	91.4	93.4	94.5	96.4	98.5	101.2	107.4	115.2	118.2	118.3	115.9			
800	91.9	92.9	93.4	94.9	96.5	97.7	100.0	103.4	109.4	118.0	119.7	119.9	117.2			
1000	96.5	98.0	98.7	99.3	98.9	99.5	101.1	104.3	109.7	117.6	119.4	117.0	117.0			
1250	95.0	96.6	98.8	99.9	99.9	101.6	102.2	105.6	110.8	117.6	120.4	120.5	117.3			
1600	94.6	95.9	96.4	97.5	98.6	100.9	102.6	105.7	110.9	117.5	120.0	119.6	115.9			
2000	95.4	96.5	98.5	98.3	99.1	100.7	103.6	106.3	110.7	116.1	118.8	117.9	113.5			
2500	94.5	96.1	97.6	98.6	100.0	101.1	103.7	106.9	111.8	115.7	117.9	115.8	111.8			
3150	94.7	96.5	97.8	98.6	100.2	101.8	103.4	107.1	111.6	115.6	116.6	114.8	110.3			
4000	95.0	96.6	97.3	98.4	100.8	103.7	107.4	110.3	114.9	114.4	112.5	108.1	107.9			
5000	95.1	98.7	99.0	99.3	99.8	101.7	103.6	107.3	110.5	113.3	113.5	111.2	107.9			
6300	94.5	98.8	99.8	99.8	100.7	102.0	103.9	106.8	110.6	112.4	111.9	110.8	107.8			
8000	93.5	97.3	98.9	101.2	102.3	104.2	107.2	109.7	111.8	110.7	109.1	107.3	106.0			
10000	91.2	96.8	98.4	99.9	101.9	101.5	103.4	106.6	108.4	110.5	109.2	107.6	106.0			
12500	89.1	94.6	97.0	98.9	100.5	101.4	103.4	106.4	108.4	106.7	106.4	106.1	104.1			
16000	87.4	93.7	95.7	98.6	99.6	100.0	101.7	102.8	105.9	106.9	106.3	104.8	102.7			
20000	83.9	90.5	93.4	95.8	98.5	98.1	99.9	100.6	104.2	104.5	104.1	102.0	100.1			
25000	80.8	87.6	89.8	92.4	95.1	95.0	95.6	97.1	101.4	101.5	102.3	98.1	95.6			
31500	78.2	85.3	89.0	91.4	93.7	93.1	93.6	96.0	98.6	98.2	100.6	97.4	93.9			
40000	73.4	80.0	85.5	87.5	89.5	89.0	90.5	92.1	95.0	96.7	98.0	93.0	90.5			
50000	68.8	74.5	80.8	81.6	83.4	83.2	86.0	86.6	89.9	92.7	94.3	87.7	84.0			
63000	65.1	68.7	77.6	76.0	80.0	77.4	80.5	79.9	83.7	90.4	80.4	77.6	74.6			
80000	61.4	63.8	75.6	71.2	76.8	71.7	75.6	74.2	79.6	86.0	85.3	73.5	73.7			
OVERALL MEASURED																
OVERALL CALCULATED	105.9	108.6	109.9	111.0	112.1	113.2	115.0	118.0	122.1	127.3	129.3	128.9	126.1			
PNDB	118.5	121.0	121.8	122.7	123.9	125.3	127.2	130.5	134.6	139.2	140.8	139.7	136.5			

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 13 ACQUSTIC RANGE 12.2m(40ft.) ARC MODEL-71.3cm²(11.1in²) SIZE

RDG. NO.	NO EGA	FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
50	39.3	93.1	92.4	94.7	97.3	97.9	99.5	101.7	105.9	111.9	116.9	119.1	118.7	166.1	166.1	166.1
63	92.4	93.2	95.4	95.9	97.3	99.2	100.0	103.2	108.4	115.2	119.9	120.6	118.7	168.0	168.0	168.0
80	93.2	94.2	95.2	96.5	98.1	100.5	101.9	104.5	110.5	118.8	122.0	121.7	119.0	169.6	169.6	169.6
100	95.1	96.8	96.6	98.6	99.7	101.6	103.7	106.4	112.6	120.4	123.4	123.5	121.1	171.5	171.5	171.5
125	97.1	98.1	98.6	100.1	101.7	102.9	105.2	108.6	114.6	123.2	124.9	125.1	122.4	171.3	171.3	171.3
160	101.7	103.2	103.9	104.5	104.1	104.7	106.3	109.5	114.9	122.8	125.0	124.6	122.2	172.0	172.0	172.0
200	100.2	101.8	104.0	105.1	105.2	106.8	107.4	109.8	116.0	122.9	125.6	125.7	122.5	170.2	170.2	170.2
250	99.9	101.1	101.7	102.7	103.8	106.1	107.8	110.9	116.2	122.7	125.2	124.9	121.1	169.5	169.5	169.5
315	100.7	101.7	103.7	103.5	104.3	105.9	108.8	111.5	116.0	121.3	124.0	123.2	118.7	168.9	168.9	168.9
400	99.8	101.3	102.8	103.9	105.2	106.3	109.0	112.1	117.1	120.9	123.1	121.0	117.1	167.9	167.9	167.9
500	100.0	101.8	103.1	103.9	105.5	107.1	108.7	112.4	116.9	120.9	121.9	120.1	115.6	166.9	166.9	166.9
630	100.4	101.9	102.7	103.7	104.8	106.2	109.1	112.7	115.7	120.3	119.7	117.9	113.4	166.5	166.5	166.5
800	100.5	104.1	104.4	104.6	105.2	107.1	109.4	112.6	115.9	118.7	118.9	116.5	113.3	166.1	166.1	166.1
1000	99.9	104.3	105.3	105.3	106.1	107.5	109.0	112.3	116.1	117.9	117.4	116.2	113.3	165.3	165.3	165.3
1250	99.2	103.0	104.6	106.8	106.9	108.0	109.9	112.8	115.3	117.4	116.4	114.7	113.0	164.1	164.1	164.1
1600	97.1	102.7	104.3	105.8	107.8	107.4	109.3	112.5	114.3	116.4	115.1	113.5	111.9	163.7	163.7	163.7
2000	95.4	100.9	103.3	105.2	106.8	107.6	108.7	110.7	113.0	114.7	113.9	112.4	110.4	162.6	162.6	162.6
2500	94.4	100.7	102.6	105.5	106.6	106.9	108.6	109.8	112.9	113.9	113.2	111.7	109.7	161.0	161.0	161.0
3150	91.7	98.3	101.2	103.5	106.3	105.9	107.3	108.3	112.0	112.3	111.9	109.7	107.9	161.2	161.2	161.2
4000	89.7	96.5	98.7	101.2	104.0	103.9	104.5	106.0	110.2	110.4	111.2	107.0	104.5	160.9	160.9	160.9
5000	89.0	96.2	99.9	102.3	104.6	104.0	104.5	106.8	109.4	109.1	111.5	108.3	104.7	163.0	163.0	163.0
6300	86.9	93.5	99.0	101.0	103.0	102.5	104.0	105.6	108.5	110.2	111.5	106.5	104.0	167.7	167.7	167.7
8000	85.7	91.4	97.7	98.5	100.3	100.1	102.9	103.5	106.8	109.6	111.2	104.6	100.9	181.7	181.7	181.7
10000	87.0	90.6	99.6	97.9	101.9	99.3	102.5	101.8	105.6	112.3	112.3	102.4	99.6			
12500	90.8	93.3	105.0	100.6	106.2	101.1	105.0	103.6	109.1	115.4	114.7	102.9	103.1			
			114.2	116.1	117.1	118.5	119.2	121.0	123.7	127.7	132.8	134.6	134.1	131.1		
			125.1	127.3	129.2	130.9	131.1	132.8	134.8	141.1	141.8	140.4	137.4			
			PNDB	120.5	125.1	127.3	129.2	130.9	131.1	132.8	134.8	138.3	141.1	141.8	140.4	137.4

VEHICLE CELL41
 CONFIG NC40
 LOC C41 ANECH CH
 DATE 05-28-76
 RUN CONFLONFLWC
 TAPE X00130
 BAR 29.3 HG
 (99111. N/M2)
 TAMB 63. DEG F
 (290. DEG K)
 TWET 59. DEG F
 (288. DEG K)
 HACT11-42 GM/M3
 (.01142 KG/M3)
 FREQ. SHIFT
 JET 8
 DIAMETER RATIO
 DF/DM 6.81

OVERALL CALCULATED 111.3 114.2 116.1 117.1 118.5 119.2 121.0 123.7 127.7 132.8 134.6 134.1 131.1 137.4

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 1 13 45.7m(150ft.) ARC FULL-33m(513in.)

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PROC. DATE - MONTH 8 DAY 24 HR. 19.0

NO EGA SIDELINE 2400. FT. (731.52 M)	FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY)													
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
	50	61.2	66.5	66.9	69.9	72.9	73.6	75.1	76.9	80.4	85.3	88.7	88.6	84.2	160.
	63	64.1	66.5	69.8	71.1	72.9	74.9	75.6	78.4	82.8	88.6	91.7	90.1	84.6	0.
	80	64.9	67.5	69.6	71.6	73.6	76.1	77.4	79.6	84.9	92.1	93.7	91.1	84.8	0.
	100	66.6	70.0	70.9	73.7	75.2	79.2	81.4	86.9	93.6	94.9	92.8	86.7	0.	0.
NFA (0. RPM)	125	68.5	71.2	72.8	75.1	77.1	78.4	80.6	83.6	88.8	96.2	96.3	94.1	87.7	0.
NFK (0. RAD/SEC)	160	72.9	76.1	78.0	79.3	79.3	80.1	81.6	84.3	89.0	95.7	96.2	93.5	87.2	0.
NFD (0. RAD/SEC)	250	70.6	73.7	75.4	77.2	78.7	81.3	82.7	85.5	90.0	95.6	96.6	94.3	87.2	0.
(785. RPM)	315	71.1	73.9	77.2	77.8	79.1	80.8	83.6	85.8	89.4	93.5	96.0	93.1	85.3	0.
AIREFLOW RATIO	400	69.8	73.2	76.0	77.9	79.7	80.9	83.4	86.1	90.2	92.8	93.1	88.2	79.7	0.
WF/W 6.81	500	69.5	73.3	75.9	77.5	79.6	81.4	82.8	86.0	89.6	92.4	91.4	86.6	77.2	0.
VEHICLE CELL41	630	69.2	72.8	75.0	76.9	78.5	80.0	82.7	85.9	88.0	91.2	88.5	83.5	73.7	0.
LOC NC40	800	68.4	74.2	76.0	77.2	78.3	80.4	82.1	85.2	87.5	88.8	86.8	81.0	71.9	0.
LOC C41 ANECH CH	1250	64.6	71.1	74.4	77.7	78.6	80.3	81.8	84.2	86.9	87.1	84.2	79.3	69.8	0.
DATE 05-28-76	1600	60.6	69.2	72.7	75.4	78.2	79.8	81.4	83.7	85.1	85.5	81.8	76.0	66.9	0.
RUN CONFLOWFLWC	2000	56.6	65.4	70.0	73.3	75.6	76.7	77.5	78.8	79.7	82.9	78.6	72.2	62.1	0.
TAPE X00130	2500	52.2	62.4	66.9	71.4	73.3	73.9	75.3	75.6	77.1	75.6	71.1	63.2	49.0	0.
FAN TIP SPEED	3150	44.2	55.5	61.5	65.7	69.5	69.5	70.9	70.5	72.3	69.5	64.3	54.2	36.9	0.
FT/SEC	4000	34.1	47.1	53.1	58.0	62.1	62.5	62.6	62.8	64.7	61.0	55.6	40.9	18.0	0.
	5000	28.7	42.8	50.9	56.0	59.7	59.6	59.6	60.5	60.4	55.7	51.2	36.2	9.3	0.
	6300	12.8	28.7	39.9	45.4	49.4	49.5	50.4	50.0	49.4	45.4	37.4	16.5		
	8000	9.1	23.2	28.8	33.2	33.8	35.7	33.8	32.3	27.2	16.0				
	10000	3.5	8.5	16.0	14.6	16.6	12.3	9.6	5.4						
OVERALL CALCULATED		80.8	84.6	87.2	89.0	90.4	91.9	93.6	96.3	99.9	104.6	105.1	102.4	95.6	
PNDB		84.9	90.4	93.7	96.3	98.5	99.5	100.9	103.2	105.9	108.8	108.4	104.7	96.8	

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 13 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 19.6
 ANGLES FROM INLET IN DEGREES (AND RADIAN'S)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200.
 FREQ. (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)(3.15)(3.33)
 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 25000 31500 40000 50000 63000 80000
 NO EGA 0 0
 RADIAL 40. FT. 0
 VEHICLE CELL41
 CONFIG NC40
 LOC C41 ANECH CH
 DATE 05-28-76
 RUN CORF10WFLWC
 TAPE X00140
 BAR 29.3 HG
 (99111. N/M2)
 TAMB 63. DEG F
 (290. DEG K)
 TWET 59. DEG F
 (285. DEG K)
 MACT11.69 CM/M3
 - (.01169 KG/M3)
 FREQ. SHIFT 0
 JET
 DIAMETER RATIO 1
 DF/DH

FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	190.	200.
50	79.9	90.2	88.4	89.7	91.3	92.2	92.3	93.0	93.9	95.5	99.9	99.1	102.2	136.8			
63	80.3	84.9	86.4	88.7	90.7	91.6	92.5	93.2	92.1	91.7	100.1	101.8	102.1	136.8			
80	80.9	83.9	86.4	87.2	87.5	88.2	88.8	90.2	92.7	98.7	102.2	103.9	105.4	136.7			
100	84.6	84.3	85.0	87.6	88.7	89.8	90.9	93.1	96.3	100.9	105.1	108.5	109.3	142.2			
125	82.8	85.8	87.1	87.6	89.2	90.8	93.7	94.9	98.1	103.7	109.1	110.8	110.8	144.7			
160	84.4	88.2	87.4	89.7	91.6	92.9	94.6	96.5	100.9	106.8	111.7	114.1	112.9	147.5			
200	87.2	88.5	90.0	90.5	92.1	94.2	95.3	96.7	98.2	103.2	110.3	115.0	113.5	149.7			
250	88.3	89.0	90.3	91.6	92.9	94.8	96.4	98.5	101.2	107.9	115.5	118.4	115.9	151.8			
315	89.9	91.4	91.1	92.9	94.8	96.4	98.5	101.2	107.9	115.5	118.4	115.9	115.9	153.1			
400	92.4	92.9	93.2	95.2	96.5	97.9	100.0	102.9	109.4	116.7	120.4	119.9	117.2	154.6			
500	96.7	98.2	99.2	98.3	99.1	99.5	101.1	104.5	109.2	116.3	119.8	119.2	117.2	154.6			
630	94.3	96.6	98.8	98.1	99.9	101.8	101.9	106.1	110.3	116.6	119.9	120.0	116.3	154.7			
800	93.9	95.9	96.2	97.2	98.1	100.7	102.3	105.5	111.2	116.3	120.0	119.6	115.9	154.6			
1000	95.2	96.5	97.7	97.8	98.8	100.6	103.0	106.6	111.6	114.2	117.9	115.8	111.6	153.3			
1250	94.0	95.6	97.3	98.4	99.7	101.0	102.9	107.6	111.8	114.6	117.3	114.8	110.8	152.4			
1600	94.2	96.0	97.3	97.8	99.7	101.0	102.9	107.6	111.8	114.6	117.3	114.8	110.8	152.3			
2000	93.5	96.1	96.8	97.6	98.9	100.6	102.9	107.6	111.8	114.6	117.3	114.8	110.8	150.9			
2500	93.5	96.1	96.8	97.6	98.9	100.6	102.9	107.6	111.8	114.6	117.3	114.8	110.8	149.6			
3150	94.1	97.9	98.7	98.8	99.3	100.9	103.3	107.3	110.2	112.8	114.3	111.9	108.2	148.7			
4000	93.5	96.8	97.8	98.8	99.8	100.7	101.5	103.7	106.6	110.1	111.2	112.9	111.0	147.5			
5000	92.5	96.3	98.7	100.9	102.0	102.1	103.7	106.9	109.2	111.5	111.7	109.8	106.6	145.9			
6300	95.8	97.4	97.4	99.9	102.4	101.8	103.4	106.4	108.4	110.3	110.0	108.6	105.8	144.2			
8000	90.4	95.8	96.5	98.7	101.0	101.6	102.4	104.7	106.7	108.2	107.8	106.9	103.8	144.6			
10000	86.4	91.7	95.4	98.1	100.1	100.2	101.9	103.1	106.2	106.2	106.3	105.3	103.0	144.7			
12500	83.7	88.3	92.7	95.3	98.8	97.6	99.9	100.6	103.9	104.2	104.1	103.0	99.9	144.6			
16000	80.6	86.6	89.3	92.3	95.6	95.0	96.3	97.1	100.3	100.8	102.6	98.6	95.9	144.2			
20000	77.9	83.8	88.0	91.7	93.7	93.1	94.4	95.7	98.0	98.2	101.1	97.9	94.4	144.6			
25000	73.1	79.5	85.2	88.4	89.0	89.3	90.7	92.3	94.2	95.9	98.9	94.0	90.0	144.7			
31500	69.0	73.3	81.1	84.6	81.6	83.5	86.2	86.6	88.6	91.7	95.7	89.6	83.9	144.6			
40000	65.0	68.6	77.8	80.2	75.7	77.4	81.2	80.8	83.9	88.8	91.3	83.1	76.6	146.4			
50000	61.4	64.0	76.0	76.9	68.5	71.4	76.5	74.4	80.1	85.7	88.4	76.7	72.4	152.2			
63000	105.4	108.1	109.6	110.7	112.2	113.1	114.8	118.0	122.0	126.4	129.5	129.0	126.1	165.1			
80000	117.9	120.5	121.6	122.2	123.6	124.9	126.8	130.6	134.7	138.3	141.2	139.8	136.5				

OVERALL MEASURED

OVERALL CALCULATED

CONFIGURATION 1 TEST POINT 14 ACCUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROC. DATE - MONTH 8 DAY 24 HR. 19.0
59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
50	89.6	93.6	92.6	94.9	96.8	98.1	99.8	101.7	106.1	111.9	116.9	119.3	118.1	164.2
63	92.4	93.7	95.2	95.7	97.3	99.4	100.5	101.9	103.4	105.4	108.4	115.5	120.2	166.4
80	93.5	94.2	95.5	96.8	98.1	100.0	101.6	103.7	106.4	110.5	118.3	122.8	122.4	168.4
100	95.1	96.6	96.3	98.1	100.0	101.7	103.1	105.2	108.1	114.6	121.9	125.6	125.1	169.8
125	97.6	98.1	98.4	100.4	101.7	103.4	104.7	106.3	109.7	114.4	121.5	125.0	124.4	171.4
160	101.9	103.4	104.4	103.5	104.3	105.2	107.0	107.2	111.3	115.5	121.9	125.1	125.2	171.0
200	99.5	101.6	104.0	104.3	103.3	105.9	107.5	110.7	116.4	121.5	125.2	124.9	121.1	171.4
250	99.1	101.1	101.4	102.4	103.3	105.9	107.5	110.7	116.4	121.5	125.2	124.9	121.1	171.2
315	100.4	101.7	103.0	103.0	104.1	106.2	108.1	111.5	116.0	120.3	124.0	123.2	118.9	170.0
400	99.3	100.8	102.6	103.6	105.0	105.8	108.2	111.9	116.8	119.4	123.1	121.0	116.8	169.1
500	99.5	101.3	102.6	103.1	105.0	106.3	108.2	112.9	117.1	119.9	122.6	120.1	116.1	168.9
630	98.9	101.4	102.2	103.0	104.3	105.9	108.3	112.7	116.2	119.0	120.5	118.4	113.9	167.6
800	99.5	103.3	104.1	104.1	104.7	106.3	108.7	112.6	115.6	118.2	119.6	117.3	113.6	167.0
1000	98.9	103.5	105.3	105.3	106.1	107.0	109.1	112.1	115.6	116.7	118.3	116.5	113.3	166.3
1250	98.2	102.0	104.3	106.6	107.6	107.7	109.4	112.6	114.8	117.2	117.4	115.5	112.2	166.1
1600	96.3	101.7	103.3	103.8	108.3	107.7	109.3	112.3	114.3	116.2	115.9	114.5	111.7	165.4
2000	94.6	99.9	102.8	105.0	107.3	107.9	108.7	110.0	113.0	114.5	114.1	113.2	110.1	164.2
2500	93.4	98.6	102.3	105.0	107.1	107.1	108.9	110.0	113.1	113.1	113.2	112.2	109.9	163.7
3150	91.4	96.0	100.4	103.0	106.5	105.4	107.6	108.3	111.7	112.0	111.8	110.7	107.6	162.5
4000	89.4	95.5	98.2	101.2	104.4	103.9	105.2	106.0	109.2	109.7	111.4	107.4	104.7	162.5
5000	88.8	94.6	98.9	102.5	104.5	104.0	105.2	106.6	108.9	109.0	112.0	108.8	105.2	161.2
6300	86.6	93.0	98.7	101.9	102.5	102.8	104.2	105.8	107.7	109.4	112.4	107.5	103.5	161.2
8000	85.9	90.1	97.9	101.4	98.5	100.3	103.1	103.5	105.5	108.6	112.6	106.5	100.8	161.2
10000	87.0	90.5	99.8	102.1	97.6	99.3	103.2	102.7	105.8	110.7	113.2	105.1	98.5	163.1
12500	90.8	93.5	105.5	106.3	97.9	100.8	105.9	103.8	109.5	115.1	117.9	106.1	101.8	168.9
OVERALL CALCULATED	110.8	113.6	115.9	117.2	118.3	119.0	120.9	123.8	127.7	131.9	134.9	134.1	131.1	168.9
PND8	119.8	124.0	127.0	129.1	130.9	131.1	132.9	134.9	138.2	140.3	142.1	140.7	137.3	181.7

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACoustic RANGE SIZE
1 14 45.7m(150ft.) ARC FULL-.33m²(513in.²)

NO. EGA (731.52 M)	SIDELINE 2400. FT.	FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)						ANGLE FROM INLET IN DEGREES (AND-RADIANS)	100.	110.	120.	130.	140.	150.	160.
			40.	50.	60.	70.	80.	90.								
50	61.4	66.8	67.1	70.1	72.4	73.9	75.4	76.9	80.6	85.3	88.7	88.9	84.2	0.	0.	0.
63	64.1	67.0	69.6	70.9	72.9	75.1	76.1	78.6	82.8	88.8	91.9	90.3	84.6	0.	0.	0.
80	65.1	67.5	69.9	71.9	73.6	76.1	77.4	80.1	84.9	91.6	94.4	91.8	85.3	0.	0.	0.
100	66.6	69.8	70.6	73.2	75.4	77.2	79.2	81.4	87.4	93.8	95.2	92.8	86.7	0.	0.	0.
125	69.0	71.2	72.6	75.3	77.1	78.6	80.6	83.1	88.8	95.0	97.1	94.1	87.7	0.	0.	0.
160	73.2	76.4	78.5	78.3	79.6	80.1	81.6	84.6	88.5	94.4	96.2	93.2	87.5	0.	0.	0.
200	70.5	74.5	78.0	79.0	80.3	82.3	82.3	86.0	89.5	94.6	96.1	93.8	86.2	0.	0.	0.
250	69.9	73.7	75.1	76.9	78.2	81.0	82.5	85.2	90.1	94.0	96.0	93.1	85.3	0.	0.	0.
315	70.9	73.9	76.4	77.3	78.8	81.1	82.8	85.8	89.4	92.5	94.4	90.9	82.4	0.	0.	0.
NFD	7500. RPM	69.3	72.7	75.7	77.6	79.4	80.4	82.7	85.9	90.0	91.3	93.1	88.2	79.4	0.	0.
400	785. RAD/SEC	69.0	72.8	75.4	76.8	79.1	80.6	82.3	86.5	89.9	91.4	92.1	86.6	77.7	0.	0.
500	AIRFLOW RATIO	67.7	72.3	74.5	76.1	78.0	79.8	82.0	85.9	88.5	89.9	89.3	84.0	74.2	0.	0.
630	WF/W 6.81	67.4	73.4	75.7	76.7	77.8	79.6	81.8	85.2	88.3	87.5	81.8	72.1	0.	0.	0.
800	VEHICLE CELL41	65.8	72.7	76.1	77.2	78.6	79.6	81.6	83.9	86.4	85.9	85.2	79.6	69.8	0.	0.
1000	CONFIG NC40	63.6	70.1	74.1	77.5	79.2	79.5	80.9	83.5	84.6	85.3	82.8	76.8	66.2	0.	0.
1250	LOC C41 ANECH CH	59.8	68.2	71.7	75.4	78.7	78.2	79.7	81.9	82.7	82.7	79.4	73.2	61.9	0.	0.
1600	DATE 05-28-76	55.8	64.4	69.5	73.1	76.1	77.0	77.5	79.1	79.7	79.0	75.3	69.0	55.9	0.	0.
2000	RUN CONFLOWFLWC	51.2	60.4	66.6	70.8	73.8	74.1	75.6	75.8	72.0	74.9	71.1	63.6	49.2	0.	0.
2500	TAPE X00140	43.9	53.3	60.7	65.2	69.8	69.0	70.9	70.5	72.0	69.3	64.3	55.2	36.6	0.	0.
4000	FAN TIP SPEED	33.8	46.1	52.6	58.0	62.5	62.4	63.3	62.8	63.6	60.2	55.8	41.4	18.3	0.	0.
5000	FT/SEC	28.5	41.3	49.8	56.2	59.7	59.6	60.4	60.2	59.9	55.7	51.7	36.7	9.8	0.	0.
6300		12.6	28.2	39.6	46.4	48.8	49.7	50.6	50.3	48.7	44.6	38.4	17.5	0.	0.	0.
8000		7.8	23.4	31.7	31.4	34.1	34.1	35.9	33.8	31.0	26.2	17.5	0.	0.	0.	0.
10000		3.7	12.7	11.7	14.5	17.3	17.3	13.3	9.8	3.9	0.	0.	0.	0.	0.	0.
12500		84.4	87.0	88.5	90.4	91.7	93.3	96.3	99.9	103.7	105.3	102.4	95.6	0.	0.	0.
PND8	OVERALL CALCULATED	84.4	89.7	93.2	96.1	98.7	99.5	100.8	103.1	105.8	107.8	104.8	96.5	0.	0.	0.

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT (Y) SIDELINE FULL-33m² (513in.²) SIZE

REPRODUCIBILITY OF THE ORIGINAL PAGE IS FOUR

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 18.5

ANGLES FROM INLET IN DEGREES (AND RADIIANS)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0.
 FREQ. (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)(3.1)(3.3) PHL

RDG. NO.	NO EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.
30	63	76.1	86.2	83.4	84.7	85.8	87.2	86.8	87.7	86.7	91.0	94.7	93.9	97.2	131.7		
100	30	76.1	80.6	81.6	83.7	85.5	86.9	87.5	88.2	87.1	87.9	95.1	96.6	96.9	131.8		
125	125	77.1	79.7	82.2	83.0	83.3	83.9	84.0	85.7	87.9	93.7	97.2	98.6	100.4	133.7		
160	160	79.3	80.0	81.5	83.1	84.4	84.8	85.9	86.3	91.8	95.9	100.1	103.3	104.3	137.2		
200	200	79.1	81.8	82.8	83.4	84.7	86.6	88.7	90.6	93.1	98.7	103.9	105.3	105.8	139.5		
250	250	80.2	84.2	83.4	86.0	87.8	88.7	89.6	92.0	96.2	101.8	106.5	108.6	108.4	142.6		
315	315	83.2	84.2	86.0	86.8	88.1	89.7	90.8	93.3	98.2	105.0	109.5	110.7	109.5	144.7		
400	400	83.8	85.0	86.0	87.3	88.9	91.0	92.7	95.1	100.5	108.1	111.8	112.5	110.3	146.7		
500	500	85.4	87.1	87.4	88.7	90.3	92.4	94.5	97.2	103.1	110.5	113.4	113.8	111.6	148.6		
630	630	88.1	88.9	89.2	90.7	92.3	93.7	95.8	98.4	104.7	113.2	116.2	114.9	113.2	150.5		
800	800	92.7	94.0	95.7	95.0	95.1	95.7	97.4	100.0	105.2	113.6	116.8	115.2	114.2	151.1		
1000	1000	92.0	92.8	95.1	95.4	96.7	98.1	98.7	101.6	106.1	113.4	116.6	116.3	113.6	151.3		
1250	1250	90.4	91.9	92.9	93.7	94.8	97.7	98.6	101.5	106.4	112.8	116.0	115.4	113.2	150.7		
1600	1600	92.2	93.5	95.0	94.8	95.6	97.2	99.3	102.3	106.5	111.3	114.8	113.9	111.0	149.5		
2000	2000	91.0	92.3	94.8	95.1	97.2	97.6	99.5	102.1	107.1	109.9	113.9	112.3	109.1	148.5		
3150	3150	90.7	93.8	95.1	95.6	97.4	98.0	99.7	103.1	107.3	110.1	113.1	110.3	107.3	148.0		
4000	4000	90.0	92.6	94.3	95.6	96.4	97.8	99.4	102.4	105.8	108.9	111.1	108.5	104.6	146.6		
5000	5000	89.6	93.4	94.5	96.0	96.1	98.4	99.6	103.0	107.3	108.8	110.0	107.4	104.9	145.5		
6300	6300	89.5	95.0	94.3	96.1	97.7	98.8	100.4	102.3	105.3	107.9	108.1	106.3	104.5	145.4		
8000	8000	89.3	95.3	95.2	96.7	97.5	98.6	100.0	103.2	106.9	107.0	107.5	106.1	104.6	144.8		
10000	10000	88.2	96.3	95.9	96.6	98.4	97.5	98.7	102.1	103.6	105.3	106.4	105.3	104.8	143.8		
12500	12500	86.1	95.3	95.0	96.7	97.2	97.1	98.4	99.9	101.7	103.4	104.6	103.9	103.8	143.3		
16000	16000	84.4	93.2	92.9	95.8	97.1	97.2	97.7	97.6	100.9	101.4	103.0	102.5	102.2	141.8		
20000	20000	81.2	89.7	90.9	92.3	95.5	94.6	95.9	96.0	98.7	98.7	100.6	99.0	98.8	140.3		
25000	25000	77.5	86.9	87.0	89.3	91.8	91.8	92.0	93.1	95.8	95.2	98.5	96.0	94.6	139.9		
31500	31500	74.9	84.0	84.0	87.6	89.6	89.6	90.1	91.4	93.3	92.9	96.6	93.6	93.3	138.2		
40000	40000	72.3	79.0	81.2	83.7	85.7	85.7	85.2	87.8	89.2	90.6	93.4	89.2	88.7	136.7		
50000	50000	61.8	72.2	75.3	77.3	76.6	78.2	78.1	81.1	82.1	84.4	89.2	83.6	82.2	135.0		
63000	63000	54.3	66.6	68.8	70.7	69.7	70.6	71.5	74.8	76.6	79.8	83.8	76.9	75.3	133.7		
80000	80000	46.8	57.0	62.8	63.6	62.2	64.4	64.2	67.9	70.0	75.9	79.4	71.7	70.9	133.0		
OVERALL MEASURED		101.8	105.7	106.5	107.5	108.8	109.6	111.0	113.6	117.4	122.5	125.5	124.6	122.7	160.8		
OVERALL CALCULATED		114.3	117.4	118.4	119.2	120.7	121.7	123.2	126.2	130.1	134.1	136.9	135.7	133.3			

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 1L | ACQUSTIC RANGE 12.2m(40ft.) ARC | SIZE MODEL-71.3cm²(11.0in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 8 DAY 24 HR. 18.9
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO.	NO EGA	RADIOAL 150. FT.	VEHICLE	CONFIG	LOC	DATE	RUN	TAPE	BAR	TAMB	TWET	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIAN)					PWL
													40.	50.	60.	70.	80.	
50	85.3	89.4	88.6	91.2	93.0	95.9	94.8	97.2	101.4	106.9	111.6	113.8	113.6	159.1				
63	88.4	89.4	91.2	91.9	93.3	94.9	96.0	98.4	103.4	110.2	116.7	115.9	114.7	161.3				
80	89.0	90.2	91.2	92.5	94.1	96.2	97.9	100.3	105.7	113.3	117.0	117.7	115.5	163.4				
100	90.6	92.3	92.6	93.9	95.5	97.6	99.7	102.4	108.3	115.7	118.6	119.0	116.8	165.0				
125	93.3	94.1	94.4	95.9	97.5	98.9	101.0	103.6	109.9	118.4	121.4	120.1	118.4	167.2				
160	97.9	99.2	100.9	100.2	100.3	100.9	102.6	105.2	110.4	118.8	122.0	120.4	119.4	167.8				
200	95.2	98.0	100.3	100.6	101.9	103.3	103.9	106.8	111.3	118.6	121.8	121.5	118.8	167.9				
250	95.6	97.1	98.2	98.9	100.0	102.9	103.8	106.7	111.7	118.0	121.2	120.6	118.4	167.3				
315	97.4	98.7	100.2	100.0	100.8	102.4	104.6	107.5	111.7	116.5	120.0	119.2	116.2	166.2				
400	96.3	97.6	100.1	100.4	102.5	102.8	104.7	107.4	112.3	115.2	119.1	117.5	114.3	165.2				
500	96.0	99.1	100.4	100.9	102.7	103.3	105.0	108.4	112.6	115.4	118.4	115.6	112.6	166.7				
630	95.4	97.9	99.7	101.0	101.8	103.2	104.8	107.7	111.2	114.3	116.5	113.9	109.9	163.2				
800	95.0	98.8	99.9	101.4	101.5	103.8	105.0	108.4	111.1	114.2	115.4	112.8	110.3	162.9				
1000	94.9	100.5	99.8	101.6	103.1	104.3	105.9	107.8	110.8	113.4	113.6	111.7	110.0	162.2				
1250	94.9	101.0	100.8	102.3	103.1	104.2	105.6	108.8	110.6	112.7	113.1	111.7	110.2	162.1				
1600	94.1	102.2	101.8	102.5	104.3	103.4	104.6	108.0	109.5	111.2	112.3	111.2	110.7	161.5				
2000	92.4	101.6	101.3	103.0	103.5	103.4	104.7	106.2	108.0	109.7	110.8	110.2	110.1	160.5				
2500	91.4	100.1	99.8	102.8	104.0	104.1	104.6	105.5	107.8	108.3	110.0	109.5	109.1	160.0				
3150	88.9	97.5	98.6	100.0	103.3	102.3	103.6	103.8	106.4	106.5	108.3	106.7	106.6	158.5				
4000	86.4	95.7	95.9	98.2	100.7	100.6	100.9	102.0	104.7	104.1	107.4	104.9	103.5	156.9				
5000	85.7	94.9	95.6	98.5	100.5	100.5	101.0	102.3	104.1	103.7	107.4	104.5	104.2	157.0				
6300	85.8	92.5	94.7	97.2	99.2	99.2	98.7	101.3	102.7	104.1	106.9	102.7	102.2	156.5				
8000	78.7	89.1	92.2	94.2	93.5	95.1	95.0	98.0	98.9	101.3	106.1	100.5	99.1	154.8				
10000	76.2	86.5	90.7	92.6	91.6	92.5	93.4	96.7	98.5	101.7	105.7	98.8	97.3	155.3				
12500	76.3	86.4	92.2	93.0	91.7	93.8	93.7	97.3	99.5	105.3	108.8	101.1	100.3	159.7				
10000	76.2	86.5	90.7	92.6	91.6	92.5	93.4	96.7	98.5	101.7	105.7	98.8	97.3	155.3				
12500	76.3	86.4	92.2	93.0	91.7	93.8	93.7	97.3	99.5	105.3	108.8	101.1	100.3	159.7				
OVERALL CALCULATED	107.2	111.6	112.3	113.5	114.8	115.5	116.8	119.4	123.0	127.8	130.8	129.8	127.8	177.4				
PWDB	116.8	123.5	124.0	126.0	127.4	127.7	128.6	130.4	133.2	135.6	138.0	136.7	135.4	177.4				

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 16 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(513in.)

NO EGA SIDELINE 2400. FT. (731.52 M)	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)						REL. HUM. DAY										
	40.	50.	60.	70.	80.	90.											
FREQ.	(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	57.2	62.8	63.1	66.4	68.6	69.6	70.4	72.4	75.9	80.3	83.5	83.4	79.7	160.	150.	140.	130.
63	60.1	62.7	65.6	67.1	68.9	70.6	71.6	73.6	77.8	83.6	86.4	85.3	80.6				
80	60.6	63.5	65.6	67.6	69.6	71.9	73.4	75.4	80.1	86.6	88.7	87.1	81.3				
100	62.1	65.5	66.9	68.9	70.9	73.2	75.2	77.4	82.6	88.8	90.2	88.3	82.4				
125	64.8	67.2	68.6	70.8	72.9	74.4	76.4	78.6	84.1	91.5	92.6	89.1	83.7				
160	69.2	72.1	75.0	75.1	75.6	76.3	77.8	80.1	84.5	91.7	93.2	89.2	84.5				
200	66.3	70.8	74.2	75.3	77.0	78.5	79.0	81.5	85.2	91.4	92.9	90.1	83.4				
250	66.4	69.7	71.9	73.4	75.0	78.0	78.7	81.2	85.4	90.5	92.0	88.8	82.5				
315	67.9	70.9	73.7	74.3	75.6	77.3	79.3	81.8	85.2	88.8	90.4	86.9	79.7				
NFD 7500. RPM																	
(785. RAD/SEC)																	
400	66.3	69.4	73.2	74.4	76.9	77.4	79.2	81.4	85.5	87.0	89.1	84.8	77.0				
AIRFLOW RATIO																	
500	65.5	70.5	73.1	74.5	76.8	77.6	79.1	82.0	85.4	86.9	87.9	82.1	74.2				
WF/WM 6.81																	
630	64.2	68.8	72.0	74.1	75.5	77.0	78.5	80.9	83.5	85.2	85.3	79.5	70.2				
800	62.9	68.9	71.5	73.9	74.6	77.1	78.1	80.9	82.7	84.3	83.3	77.3	68.9				
VEHICLE CELL41																	
1000	61.8	69.7	70.6	73.4	75.6	76.9	78.3	79.7	81.6	82.6	80.4	74.8	66.5				
CONFIG NC40																	
1250	60.4	69.1	70.6	73.2	74.7	76.0	77.2	79.7	80.4	80.8	78.6	73.0	64.1				
LOC C41 ANECH CH																	
1600	57.6	68.7	70.2	72.1	74.7	74.0	74.9	77.6	77.9	77.7	75.9	70.0	60.9				
DATE 05-28-76																	
2000	53.6	66.2	68.0	71.1	72.4	72.5	73.5	74.3	74.7	74.3	72.1	65.9	55.9				
RUN CONFLOWLWC																	
2500	49.2	61.9	64.1	68.6	70.7	71.1	71.3	71.3	72.1	70.1	67.8	60.9	48.5				
TAPE X00160																	
4150	41.6	54.8	59.0	62.2	66.5	65.9	66.9	66.0	66.7	63.7	60.8	51.1	35.6				
FAN TIP SPEED																	
4000	30.8	46.3	50.3	55.0	58.8	59.2	59.0	58.8	59.1	54.7	51.8	38.9	17.0				
5000	25.4	41.5	46.6	52.2	55.6	56.0	56.1	56.0	55.1	50.4	47.1	32.4	8.8				
6300	11.8	27.7	35.6	41.6	45.6	46.2	45.1	45.7	43.6	39.3	32.6	12.7					
8000	6.8	17.6	24.4	26.4	26.4	28.8	27.9	28.2	24.4	18.9	10.9						
10000																	
12500																	
OVERALL CALCULATED	76.6	81.2	83.7	85.3	87.0	88.3	89.6	91.9	95.3	99.9	101.2	98.0	92.1				
PNDB	80.9	88.3	90.6	93.1	95.1	95.9	96.8	98.7	101.1	103.8	104.5	100.6	93.5				

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 16 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 8 DAY 24 HR. 16.5
 0. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. C. O. C. O. C. O.
 (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.)

RDG. NO.	NO. EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
100	75.6	85.4	83.7	85.0	86.3	86.4	86.5	86.0	88.2	91.0	94.4	93.9	96.4	131.4	
125	76.6	80.6	82.4	83.9	86.2	87.4	88.0	89.2	87.4	88.4	96.1	97.8	97.4	132.6	
160	77.1	79.9	82.7	83.2	83.8	84.4	84.5	85.7	87.9	94.0	97.9	98.9	100.4	136.0	
200	79.6	80.3	81.5	83.6	84.4	85.3	86.4	88.8	92.0	96.1	100.3	104.3	104.8	137.8	
250	79.1	82.3	83.3	83.9	85.2	86.6	89.0	90.4	93.6	99.4	104.9	106.0	106.1	140.2	
315	80.9	84.7	83.7	85.7	88.1	89.4	89.6	92.2	96.4	102.0	107.9	109.6	108.7	143.1	
400	83.4	84.7	86.2	86.8	88.1	89.7	91.1	93.8	98.5	105.0	110.5	110.9	109.2	145.0	
500	83.5	85.0	86.3	87.6	89.2	91.8	92.9	95.8	100.8	107.9	112.8	112.2	109.5	146.9	
630	85.6	87.4	87.9	89.4	91.0	92.6	94.5	97.2	103.1	109.7	113.9	114.6	111.4	148.6	
800	88.1	89.2	89.4	90.9	92.0	94.2	96.0	98.9	105.2	112.0	116.7	116.1	113.2	150.8	
1000	92.7	93.7	95.2	95.0	95.6	96.0	97.4	100.3	105.0	112.1	116.5	116.2	113.7	150.9	
1250	90.0	92.3	94.8	95.6	95.9	97.6	98.7	101.9	106.4	111.9	116.1	117.0	113.3	151.0	
1600	90.1	91.7	92.4	93.2	94.8	97.4	98.3	101.0	106.4	111.5	115.2	115.6	112.2	150.1	
2000	91.4	93.0	94.0	94.8	95.6	97.0	99.3	102.8	106.2	110.3	114.3	116.7	110.7	149.3	
2500	90.3	92.3	94.1	95.6	96.7	97.6	99.0	102.1	106.8	108.7	112.9	113.0	108.3	149.1	
3150	90.5	93.3	94.8	94.8	97.2	97.5	99.4	103.3	106.8	109.1	112.6	111.8	106.8	147.8	
4000	89.5	91.6	93.3	94.6	95.9	97.1	99.4	103.1	105.8	108.4	110.6	109.8	103.8	146.5	
5000	88.9	91.9	94.0	95.3	96.1	97.9	99.1	103.0	105.5	107.8	109.5	108.2	103.7	145.5	
6300	86.2	93.0	94.1	95.1	96.9	98.8	99.9	102.1	105.3	107.2	108.4	107.8	103.5	145.2	
8000	86.7	95.5	95.4	96.1	97.7	97.0	98.9	101.4	103.6	105.3	105.7	106.3	103.8	144.6	
10000	84.8	93.6	94.2	94.9	96.7	96.6	97.6	99.7	101.5	103.2	104.3	104.9	102.6	143.5	
16000	83.4	91.5	91.9	94.3	96.4	96.5	96.7	98.1	100.4	101.2	102.5	103.3	101.0	142.9	
20000	80.2	87.7	89.4	91.5	95.0	93.8	95.1	96.3	98.4	98.7	100.3	100.5	98.1	141.6	
25000	76.5	84.6	85.8	88.1	90.5	90.8	91.0	92.4	95.3	95.5	98.0	96.3	93.8	139.7	
31500	73.4	82.5	84.0	86.6	88.9	88.4	89.3	90.4	92.5	92.9	95.6	95.1	92.1	139.7	
40000	67.8	76.7	80.4	82.4	83.5	84.2	85.5	84.2	87.5	88.4	89.1	93.1	87.5	139.1	
50000	60.5	70.0	73.8	75.5	75.6	76.9	77.9	80.8	82.1	83.4	84.2	84.4	80.4	137.4	
63000	53.3	62.6	67.3	69.2	68.7	69.3	70.7	74.3	75.8	78.5	83.3	77.6	74.8	136.0	
80000	46.1	55.0	61.3	61.8	61.2	63.6	63.5	67.1	69.8	75.4	78.9	71.4	68.9	142.5	
OVERALL MEASURES															
OVERALL CALCULATED 101.3 104.8 105.9 106.9 108.4 109.3 110.7 113.6 117.3 121.5 125.3 125.4 122.3															
PROB 113.9 116.8 118.1 118.7 120.4 121.4 123.0 126.3 129.9 133.2 136.6 136.5 132.9															

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION / TEST POINT 17 ACQUISTIC RANGE 12.2m(40ft.) ARC

SIZE MODEL-71.3cm²(11.1in²)

NO EGA	KUG. NO.	RADIAL 150. FT.	VEHICLE CONFIG	LOC	DATE	RUN	TAPE	BAR	TAMB	TWET	HACT	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIAN)			PWL				
													40.	50.	60.					
			CELL 41										90.	110.	120.	130.	140.	150.	160.	
			NC40										90.	110.	120.	130.	140.	150.	160.	
			C41 ANECH CH										90.	110.	120.	130.	140.	150.	160.	
			03-28-76										90.	110.	120.	130.	140.	150.	160.	
			CONFLOWFLWC										90.	110.	120.	130.	140.	150.	160.	
			X00170										90.	110.	120.	130.	140.	150.	160.	
			29.3 HG										90.	110.	120.	130.	140.	150.	160.	
			(99111. N/M2)										90.	110.	120.	130.	140.	150.	160.	
			64. DEG F										90.	110.	120.	130.	140.	150.	160.	
			(291. DEG K)										90.	110.	120.	130.	140.	150.	160.	
			60. DEG F										90.	110.	120.	130.	140.	150.	160.	
			(288. DEG K)										90.	110.	120.	130.	140.	150.	160.	
			11.71 GM/M3										90.	110.	120.	130.	140.	150.	160.	
			(.01171 KG/M3)										90.	110.	120.	130.	140.	150.	160.	
			SHIFT										90.	110.	120.	130.	140.	150.	160.	
			8										90.	110.	120.	130.	140.	150.	160.	
			DIAMETER RATIO										90.	110.	120.	130.	140.	150.	160.	
			6.81										90.	110.	120.	130.	140.	150.	160.	
			OVERALL CALCULATED										90.	110.	120.	130.	140.	150.	160.	
			115.9	122.1	123.2	124.9	126.8	127.1	128.0	130.1	132.9	135.1	137.6	137.5	134.5					

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 17 ACUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

	FULL SIZE SOUND PRESSURE ANGLES FROM INLET IN DEGREES (AND RADIAN)				LEVELS SCALED FROM MODEL DATA (59 DEG. F. 70 PERCENT REL. HUM. DAY)									
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
FREQ. (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	57.9	63.3	63.4	66.1	68.9	70.4	71.4	72.6	76.1	80.6	84.2	84.4	80.0
NO EGA	63	60.4	63.2	65.8	67.1	68.9	70.6	71.9	74.1	78.1	83.6	87.4	85.6	80.4
SIDELINE 2400. FT. (731.52 M)	80	60.4	63.5	65.9	67.9	69.9	72.6	73.6	76.1	80.4	86.3	89.7	86.8	80.5
NFA (1. RPM	100	62.4	65.8	67.4	69.7	71.7	73.4	75.2	77.4	82.6	88.1	90.7	89.0	82.2
(0. RAD/SEC)	125	64.8	67.4	68.8	71.1	72.6	74.9	76.6	79.1	84.6	90.2	93.3	90.4	83.7
NFK (1. RPM	160	69.2	71.9	74.5	75.1	76.1	76.6	77.8	80.3	84.3	90.2	93.0	84.0	84.0
(0. RAD/SEC)	200	66.3	70.3	74.0	75.5	76.3	78.0	79.0	81.8	85.2	89.9	92.4	90.8	83.2
NFD (7500. RPM	250	66.1	69.4	71.4	72.9	75.0	77.8	78.5	80.7	85.4	89.3	91.2	89.1	81.5
(785. RAD/SEC)	315	67.1	70.4	72.7	74.3	75.6	77.1	79.3	82.3	84.9	87.8	89.9	87.7	79.4
AIRFLOW RATIO	400	65.5	69.4	72.5	74.9	76.4	77.4	78.7	81.4	85.2	85.8	88.1	85.5	76.2
WF/WM 6.81	500	65.3	70.0	72.9	73.8	76.6	77.1	78.6	82.3	84.9	85.9	87.4	83.6	73.7
VEHICLE CELL41	630	63.7	67.8	71.0	73.1	75.0	76.3	78.5	81.6	83.5	84.7	84.8	80.8	69.5
CONFIG NC40	800	62.2	67.4	71.0	73.2	74.6	76.6	77.6	80.9	82.5	83.3	82.8	78.0	67.6
LOC C41 ANECH CH	1000	60.5	67.7	70.4	72.4	74.8	76.9	77.8	79.4	81.6	81.9	80.7	76.3	65.5
DATE 05-28-76	1250	59.6	67.6	69.9	72.2	74.4	76.0	76.7	79.0	80.5	80.5	78.6	73.5	63.4
RUN CONFLOWFLWC	1600	56.1	67.9	69.7	71.6	73.9	73.5	75.2	76.9	77.9	77.7	75.1	71.0	59.6
TAPE X00170	2000	52.3	64.4	67.2	69.3	71.9	72.0	72.8	74.1	74.5	74.0	71.8	66.9	54.6
FAN TIP SPEED	2500	46.2	60.1	63.1	67.1	70.0	70.4	70.3	70.8	71.6	69.9	67.3	61.6	47.2
FT/SEC	3150	40.4	52.8	57.5	61.5	66.0	65.2	66.1	66.3	66.5	63.7	60.5	52.6	34.8
	4000	29.8	44.0	49.1	53.8	57.5	58.2	58.0	58.6	54.9	51.3	39.1	16.3	
	5000	23.9	40.0	45.8	51.2	54.9	54.8	55.3	55.0	54.4	50.4	46.1	33.9	7.5
	6300	7.3	25.4	34.8	40.3	43.3	43.9	44.1	45.5	42.9	37.8	32.6	14.0	
	8000		4.5	16.1	22.7	25.4	27.5	27.7	28.0	24.4	17.9	9.9		
	10000				1.7	4.7	6.5	6.8	6.7					
OVERALL CALCULATED	12500	76.3	80.6	83.2	84.9	86.7	88.1	89.4	92.0	95.2	98.8	101.1	98.8	91.7
PNDR		80.2	87.4	90.0	92.3	94.6	95.4	96.5	98.5	100.9	102.9	104.2	101.4	93.0

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 17 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 18.5

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

RDG. NO.	NO. EGA	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	PWL
50	50	76.4	85.9	83.9	85.5	86.8	87.4	87.0	88.2	88.9	90.5	94.9	94.4	96.9			131.9
63	63	76.6	81.4	82.4	84.7	86.2	87.6	88.2	88.9	87.6	87.2	95.9	97.3	97.4			132.4
100	100	77.6	80.4	82.7	83.0	84.0	84.2	84.8	86.0	88.4	93.7	97.2	98.4	100.2			133.6
160	160	79.3	80.3	81.5	84.3	84.7	85.5	86.7	88.8	92.3	95.9	100.1	104.0	104.8			137.6
200	200	79.3	82.1	83.3	83.6	85.5	86.8	89.2	90.9	93.8	96.9	103.9	105.5	106.1			139.7
250	250	80.7	84.4	83.7	86.5	88.6	89.2	91.6	94.3	99.2	101.8	106.7	108.9	108.9			142.7
315	315	82.9	84.7	86.5	87.3	88.8	90.2	91.6	94.3	99.2	105.8	109.7	110.9	109.5			145.0
400	400	84.0	85.3	86.8	88.1	89.7	91.5	92.9	95.8	101.3	108.4	112.3	112.7	110.0			147.0
500	500	85.9	87.6	88.1	89.7	91.5	92.9	94.8	97.4	103.6	110.7	113.9	114.1	111.6			148.7
630	630	87.9	89.2	89.4	91.2	92.5	94.2	96.0	99.7	105.2	112.7	115.4	115.4	113.7			150.3
800	800	93.0	93.5	94.7	94.5	95.4	95.7	97.4	100.0	104.7	112.1	115.0	114.9	114.0			150.1
1000	1000	90.5	92.1	94.6	94.9	95.7	97.8	97.9	101.4	106.3	111.6	114.4	115.8	113.3			149.2
1250	1250	89.9	92.2	91.7	93.2	94.6	97.2	98.3	101.7	105.9	111.0	113.5	114.6	112.4			148.1
1600	1600	90.7	92.2	93.7	93.8	95.3	97.0	99.3	102.0	106.0	109.3	112.8	112.9	110.5			148.1
2000	2000	90.0	91.8	93.3	94.9	96.5	96.8	99.2	102.1	106.6	108.4	111.1	112.0	108.6			147.2
2500	2500	90.0	92.5	94.1	94.6	96.4	97.5	99.2	102.8	106.8	108.9	110.3	109.8	107.0			146.7
3150	3150	89.0	90.8	92.8	94.1	95.7	97.1	98.7	102.4	106.1	108.4	108.6	108.3	104.1			145.1
4000	4000	88.1	91.2	92.2	94.3	95.6	97.4	98.8	103.0	105.2	107.3	108.5	106.7	103.4			145.1
5000	5000	87.2	92.0	93.3	94.1	96.2	98.8	99.9	102.1	105.6	106.7	107.6	106.0	103.8			145.0
6300	6300	86.8	92.6	93.2	95.2	96.2	98.3	100.0	102.7	104.4	106.3	106.5	105.1	103.1			144.6
8000	8000	85.7	93.5	93.9	95.4	96.9	97.0	98.4	101.4	103.9	104.8	105.7	104.0	103.8			144.1
10000	10000	84.1	92.1	93.0	94.4	96.2	96.3	98.1	99.4	101.5	102.2	103.8	102.9	102.6			142.9
12500	12500	82.2	90.2	91.4	94.1	95.9	96.0	97.2	98.3	100.4	100.9	102.3	100.8	100.7			142.4
16000	16000	78.9	86.2	88.6	90.8	94.3	93.8	95.1	96.0	98.7	98.2	100.3	98.2	97.8			141.2
20000	20000	75.3	83.6	84.5	87.6	90.0	90.3	91.3	92.9	95.3	95.0	97.5	94.5	94.1			139.3
25000	25000	72.4	81.0	83.2	85.9	88.6	88.4	88.6	90.7	93.0	91.9	95.3	92.9	91.8			139.3
31500	31500	66.8	75.7	79.4	81.7	83.0	83.7	84.0	87.3	88.7	89.1	92.4	88.4	88.0			138.7
40000	40000	59.3	68.0	72.5	75.0	75.3	76.7	77.1	80.8	82.3	82.9	87.7	83.6	80.2			137.1
50000	50000	52.3	61.1	65.8	67.7	68.2	69.3	70.0	73.8	76.1	77.5	81.5	76.4	73.6			136.9
63000	63000	45.3	54.0	59.8	61.1	60.2	62.4	63.7	66.1	69.0	73.4	76.7	69.2	68.4			140.6
80000	80000																
OVERALL MEASURED																	
OVERALL CALCULATED 101.0 104.0 105.2 106.4 106.0 109.2 110.7 113.5 117.3 121.4 124.0 124.4 122.5																	
PNDB 113.5 116.2 117.4 118.4 120.0 121.3 122.9 126.1 129.9 133.0 135.1 135.4 132.9																	

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT | ACUSTIC RANGE | SIZE

MODEL-71.3cm²(11. lin²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 19.0

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)

RDG. NO.	NO EGA	ANGLES FROM INLET IN DEGREES (AND RADIAN)S)												PWL
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	
50	85.8	89.6	88.9	91.7	93.8	94.4	95.8	97.4	101.9	106.9	111.9	114.1	114.7	159.4
63	88.1	89.9	91.7	92.4	94.0	95.4	96.8	99.4	104.4	111.0	114.9	116.1	114.7	161.6
80	89.2	90.5	92.0	93.3	94.9	96.7	98.1	100.0	102.6	105.5	108.8	111.5	115.2	163.7
100	91.1	92.8	93.3	94.9	96.7	98.1	100.0	102.6	105.5	108.8	111.5	115.2	116.8	165.4
125	93.1	94.4	94.6	96.4	97.7	99.4	101.2	104.9	110.4	117.9	120.6	120.6	118.9	167.0
160	98.2	98.7	99.9	99.7	100.6	100.9	102.6	105.2	109.9	117.3	120.2	120.1	119.2	160.7
200	95.7	97.3	99.8	100.1	100.9	103.0	103.2	106.6	111.5	116.9	119.6	121.0	118.5	166.7
250	95.1	97.4	96.9	98.4	99.8	102.4	103.5	106.9	111.2	116.2	118.7	119.9	117.6	165.9
315	95.9	97.4	99.0	99.0	100.6	102.2	104.6	107.2	111.2	114.5	118.0	118.2	113.7	164.8
400	95.3	97.1	98.6	100.1	101.7	102.1	104.5	107.4	111.8	113.7	116.4	117.3	113.8	163.9
500	95.3	97.8	99.4	99.9	101.7	102.8	104.5	108.1	112.1	114.2	115.6	115.1	112.3	163.4
630	94.4	96.2	98.2	99.5	101.1	102.4	104.1	107.7	111.4	113.8	114.0	113.6	109.4	162.3
800	93.5	96.6	97.6	99.6	101.0	102.8	104.2	108.4	110.6	112.7	113.9	112.0	108.8	161.8
1000	92.7	97.5	98.8	99.6	101.6	104.3	105.4	107.6	111.1	112.2	113.1	111.5	109.3	161.6
1250	92.4	98.2	98.8	100.8	101.9	104.0	105.6	108.3	110.1	111.9	112.1	110.7	108.7	161.3
1600	91.6	99.4	99.8	101.3	102.8	102.9	104.3	107.3	109.8	110.7	111.6	110.0	109.7	160.8
2000	90.4	98.4	99.3	100.7	102.5	102.6	104.4	105.7	107.8	108.5	110.1	109.2	108.9	159.6
2500	89.1	97.1	98.3	101.0	102.8	102.9	104.1	105.3	107.3	107.8	109.2	107.7	107.6	159.1
3150	86.7	94.0	96.4	98.5	102.0	101.6	102.9	103.8	106.4	106.0	108.1	106.0	105.6	157.9
4000	84.2	92.5	93.4	96.5	98.9	99.1	100.2	101.7	104.2	103.9	106.4	103.4	103.0	156.0
5000	83.2	91.9	94.1	96.8	99.5	99.2	99.5	101.5	103.9	102.7	106.2	103.8	102.7	155.9
6300	80.3	89.2	92.9	95.2	96.5	97.2	97.5	100.8	102.2	102.6	105.9	101.9	101.5	155.4
8000	76.2	84.9	89.4	91.9	92.2	93.6	94.0	97.7	99.2	99.8	104.6	100.5	97.1	153.7
10000	74.2	83.0	87.7	89.6	90.1	91.3	91.9	95.7	98.0	99.4	103.5	98.3	95.5	153.6
12500	74.8	83.4	89.2	90.5	89.7	91.8	93.2	95.6	98.5	102.8	106.1	98.6	97.8	157.3
OVERALL CALCULATED 106.3 109.6 110.9 112.2 113.9 115.0 116.4 119.2 122.8 126.8 129.3 129.6 127.6														
PNDB 115.0 121.0 122.4 124.5 126.3 126.8 128.1 130.2 133.0 134.8 136.8 135.9 134.5														

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 18 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-33m²(513m²)

NO EGA SIDELINE 2400. FT. (731.52 M)	FULL SIZE SOUND PRESSURE					LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY)							
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
FREQ.	(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)
50	57.7	63.0	63.4	66.9	69.4	70.1	72.4	74.6	76.4	80.3	83.7	85.6	80.2
63	59.9	63.2	66.1	67.6	69.6	71.1	72.4	74.6	78.8	84.3	86.7	85.6	80.6
80	60.9	63.7	66.4	68.4	70.4	72.4	73.6	76.1	80.9	86.8	89.2	87.3	81.0
100	62.6	66.0	67.6	69.9	72.2	73.7	75.4	77.7	83.1	89.1	90.7	88.5	82.4
125	64.5	67.4	68.8	71.3	73.1	74.9	76.6	79.8	84.6	91.0	92.1	89.6	84.2
160	69.4	71.6	74.0	74.6	75.8	76.3	77.8	80.1	84.0	90.2	91.5	89.0	84.2
200	66.8	70.0	73.7	74.8	76.0	78.3	78.3	81.3	85.5	89.6	90.6	89.6	83.2
250	65.9	69.9	70.6	72.9	74.7	77.5	78.5	81.4	84.9	88.8	89.5	88.1	81.8
315	66.4	69.7	72.4	73.3	75.3	77.1	79.3	81.5	84.7	86.8	88.4	85.9	79.2
400	65.3	68.9	71.7	74.1	76.2	76.7	78.9	81.4	85.0	85.5	86.4	84.5	76.5
500	64.8	69.3	72.1	73.5	75.8	77.1	78.6	81.8	84.9	85.6	85.1	81.6	74.0
630	63.2	67.0	70.5	72.6	74.7	76.3	77.7	80.9	83.7	84.7	82.8	79.3	69.7
800	61.4	66.7	69.2	72.2	74.1	76.1	77.3	80.9	82.2	82.8	81.8	76.5	67.4
1000	59.5	66.7	69.6	71.4	74.1	76.9	77.8	79.4	81.9	81.4	79.9	74.6	65.8
1250	57.9	66.3	68.6	71.7	73.4	75.8	77.2	79.2	79.9	80.0	77.6	72.0	62.6
1600	55.1	65.9	68.2	70.9	73.2	73.5	74.7	76.9	78.2	77.2	75.1	68.7	59.9
2000	51.6	62.9	66.0	68.8	71.4	71.7	73.3	73.8	74.5	75.0	71.3	64.9	54.6
2500	47.0	58.9	62.6	66.8	69.5	69.9	70.8	71.1	71.6	69.6	67.0	59.1	47.0
3150	39.1	51.3	56.7	60.7	65.3	65.2	66.1	66.0	66.7	63.2	60.5	50.4	34.6
4000	28.6	43.0	47.8	53.3	57.0	57.7	58.3	58.5	58.6	54.4	50.8	37.4	16.5
5000	22.9	38.5	45.1	50.4	54.6	54.8	54.6	55.2	54.9	49.4	45.9	31.6	7.3
6300	6.3	24.4	33.8	39.6	42.8	44.2	43.8	45.2	43.1	37.8	31.8	12.0	
8000	2.5	14.9	22.2	25.1	27.3	26.9	28.0	24.7	17.4	9.4			
10000			0.2	4.2	6.5	6.0	6.2						
12500													
OVERALL CALCULATED	76.1	80.1	82.6	84.4	86.4	88.0	89.4	91.9	95.2	98.8	99.9	97.9	92.0
PNDB	79.8	86.2	89.0	91.7	94.1	95.2	96.5	98.4	100.9	102.6	102.8	100.1	93.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION () TEST POINT 18 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO.	NO EGA	PROC. DATE - MONTH 8-DAY 24-HR. 18.5																
		ANGLES FROM INLET IN DEGREES (AND RADIAN)																
40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	0.	0.	0.
FREQ.	(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.)	(0.)	(0.)
50	71.6	78.7	79.7	81.0	81.9	81.8	82.7	82.9	85.5	89.4	88.1	90.9	126.2					
63	71.6	77.9	79.7	81.0	82.1	82.2	83.2	81.6	81.9	89.6	90.8	91.1	126.6					
80	72.4	77.2	77.7	79.0	78.7	79.3	80.7	82.7	88.0	92.4	92.4	93.4	127.6					
100	75.5	76.8	79.1	79.4	80.0	81.4	83.6	86.5	90.4	94.3	97.3	98.0	131.3					
125	75.7	79.4	78.3	80.5	81.3	84.0	85.4	87.6	92.9	97.9	99.0	99.3	133.5					
160	77.7	80.0	82.2	84.1	83.9	85.1	86.7	90.4	95.3	100.2	102.9	102.7	136.5					
200	80.3	82.3	83.1	84.4	85.0	86.1	89.0	92.7	98.5	104.0	104.4	103.5	140.9					
250	82.6	84.9	84.9	86.0	87.4	89.3	91.9	95.9	102.7	108.2	108.6	106.4	142.7					
315	84.2	84.7	85.7	87.8	88.9	90.5	92.7	97.4	103.5	109.7	110.1	108.4	144.2					
400	85.6	88.1	88.3	89.1	90.0	91.4	94.3	97.0	102.6	108.0	108.4	107.5	146.9					
500	87.2	87.7	87.7	89.1	91.2	92.1	95.0	98.6	101.9	106.1	107.5	105.1	141.8					
630	88.8	88.5	88.3	90.1	91.5	94.1	95.9	98.7	101.3	102.5	103.4	101.5	140.5					
800	89.3	89.3	90.8	91.9	93.0	94.2	96.8	99.6	100.6	102.3	103.0	101.0	139.2					
1000	89.8	90.5	91.7	91.6	92.8	93.9	96.6	99.1	99.7	100.9	102.5	99.8	139.1					
1250	90.5	91.7	91.7	92.6	93.2	94.3	97.0	98.5	98.8	100.5	101.7	99.9	138.8					
1600	90.8	90.6	90.6	92.2	94.3	94.9	97.6	98.6	98.2	101.1	102.3	100.8	139.3					
2000	87.1	87.9	90.1	92.0	93.8	95.0	97.1	98.9	98.3	101.2	103.1	101.3	139.7					
2500	87.3	87.9	89.3	91.9	92.8	93.9	96.6	97.6	97.3	99.4	102.5	102.0	139.2					
3150	86.7	86.7	87.3	90.2	91.8	93.4	94.9	94.9	95.4	97.8	100.6	100.6	138.0					
4000	83.7	84.6	87.3	89.1	90.7	92.6	94.0	94.9	93.9	96.0	98.7	99.2	137.5					
5000	81.8	83.9	83.2	84.4	85.9	87.5	89.7	88.1	91.4	91.4	91.7	91.5	136.2					
6300	77.5	77.9	80.7	83.2	84.4	85.9	87.5	89.7	88.1	91.4	91.7	91.5	133.9					
8000	74.9	76.6	79.0	80.8	82.0	83.0	85.1	86.9	84.7	87.7	90.5	89.5	133.5					
10000	69.8	72.7	75.0	78.0	78.3	78.3	81.9	82.3	81.6	83.9	85.3	84.3	132.6					
12500	65.5	65.5	67.5	69.7	71.2	74.6	75.1	73.3	77.9	79.4	76.7	76.7	129.8					
16000	54.1	58.7	60.4	60.1	61.8	62.9	67.0	67.5	66.9	70.9	71.3	69.0	128.5					
20000	44.8	47.4	53.7	52.9	55.0	54.9	58.0	60.1	59.4	64.9	62.5	63.0	130.5					
25000	37.8	47.4	53.7	52.9	55.0	54.9	58.0	60.1	59.4	64.9	62.5	63.0	130.5					
31500	95.8	99.0	100.3	101.5	102.8	104.2	105.5	107.9	110.3	113.0	117.0	117.9	116.5					
40000	108.9	111.8	113.1	114.3	115.3	116.5	117.7	120.2	122.9	124.8	127.5	128.5	126.9					

OVERALL MEASURED
OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS
CONFIGURATION | TEST POINT | ACQUSTIC RANGE | SIZE
| 20 | 12.2m(40ft.) ARC | MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO.	NO EGA	RADIAL 150. FT.	VEHICLE CONFIG	LOC	DATE	RUN	TAPE	BAR	TAMB	TWET	HACT	FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIAN)					PWL
													40.	50.	60.	70.	80.	
50	80.8	84.6	84.4	86.4	89.3	89.1	90.3	91.9	95.6	100.4	105.4	108.1	107.9	153.2				
63	82.9	85.2	87.4	87.9	88.8	90.2	91.3	94.2	97.9	103.7	109.2	109.6	108.7	155.4				
80	84.5	85.5	87.5	88.3	89.6	91.2	92.4	95.0	99.5	106.3	111.5	111.9	110.2	157.6				
100	85.6	87.8	88.1	90.1	91.2	92.6	94.5	97.1	101.1	107.9	113.4	113.8	111.6	159.3				
125	87.0	89.4	89.9	90.9	93.0	94.1	95.7	97.9	102.6	108.7	114.9	115.3	113.6	160.8				
160	91.4	92.9	94.4	93.5	94.3	95.2	96.6	99.5	102.2	107.8	113.2	113.6	112.7	159.6				
200	89.0	90.8	93.3	93.1	94.7	96.3	97.4	100.8	103.8	107.1	111.3	112.7	110.3	158.4				
250	89.4	91.6	92.4	92.9	94.3	96.4	97.3	100.2	103.9	107.2	109.4	110.6	108.9	157.2				
315	90.4	92.4	93.7	93.5	95.3	96.7	99.3	100.7	104.0	106.5	107.7	108.7	106.7	156.2				
400	90.8	93.1	94.1	95.1	96.7	98.2	99.5	102.1	104.9	105.9	107.6	108.3	106.3	155.9				
500	91.3	93.8	94.6	96.1	97.2	98.3	99.5	102.4	103.8	104.2	105.9	107.0	105.2	156.4				
630	89.9	92.7	95.2	96.7	96.8	98.2	99.3	102.0	104.4	105.0	106.2	107.9	105.2	155.7				
800	89.5	93.8	95.8	97.1	97.0	98.6	99.7	102.4	103.8	104.2	105.9	107.0	105.3	155.0				
1000	88.7	93.5	95.3	96.1	97.6	99.7	100.4	103.1	104.0	103.7	106.6	107.7	106.2	156.4				
1250	88.4	92.7	93.5	95.8	97.6	99.5	100.6	102.8	104.5	103.9	106.9	108.7	107.0	156.4				
1600	86.6	93.2	93.8	95.2	97.8	98.7	99.8	102.5	103.5	103.2	105.3	108.4	107.9	155.9				
2000	84.3	91.4	93.0	94.9	96.5	98.1	99.6	101.2	101.2	101.7	104.1	106.9	106.9	154.7				
2500	83.8	90.6	91.5	94.2	96.0	97.6	99.5	101.0	101.8	100.8	102.9	105.7	106.1	154.2				
3150	80.6	87.7	89.6	91.7	94.9	96.0	97.8	99.0	101.4	99.4	101.5	103.6	104.0	152.8				
4000	78.6	86.4	86.8	89.6	92.1	93.3	94.8	96.4	98.6	97.0	100.3	100.6	100.4	150.6				
5000	77.4	85.7	87.4	89.9	91.6	92.8	93.8	95.9	97.7	95.6	98.5	101.4	100.3	150.2				
6300	81.0	83.3	86.2	88.5	91.5	91.8	91.8	95.4	95.8	95.2	97.5	98.8	97.8	149.3				
8000	71.0	78.9	82.4	84.4	84.8	86.6	88.1	91.5	91.9	90.2	94.8	96.3	93.6	146.4				
10000	66.7	76.2	80.6	82.3	82.1	83.7	84.9	88.9	89.4	88.8	92.8	93.2	91.0	145.2				
12500	67.2	76.8	82.0	83.1	82.3	84.4	84.3	87.4	89.5	88.8	94.4	91.9	92.4	147.2				
OVERALL CALCULATED	101.1	104.5	105.9	107.1	108.5	110.0	111.2	113.6	115.9	118.3	122.3	123.2	121.7	169.9				
PWDB	109.9	115.2	116.5	118.4	120.1	121.6	123.1	125.1	126.9	127.0	129.8	131.6	130.9					

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 1 26 45.7m(150ft.) ARC FULL-33m(1513in.)²

NO EGA STIDELINE 2400. FT. (731.52 M.)	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY)												
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
50	52.7	58.0	58.9	61.6	64.9	64.9	65.9	67.1	70.1	73.8	77.2	77.6	74.0
63	54.6	58.5	61.8	63.1	64.4	65.9	66.9	69.4	72.3	77.1	80.9	79.1	74.6
80	56.1	58.7	61.9	63.4	65.1	66.9	67.9	70.1	73.9	79.6	83.2	81.3	76.0
125	59.0	62.4	62.4	65.2	66.7	68.2	69.9	72.2	75.4	81.1	84.9	83.0	77.2
160	62.7	65.9	68.5	68.3	69.6	71.1	72.8	76.8	81.7	86.3	84.4	79.0	
200	60.0	63.5	67.2	67.8	69.8	71.5	72.5	75.5	77.7	79.9	82.4	81.3	77.7
250	60.1	64.2	66.1	67.4	69.2	71.5	72.2	74.7	77.6	79.8	80.2	78.8	73.0
315	60.9	64.7	67.2	67.8	70.1	71.6	74.1	75.0	77.4	78.8	78.2	76.4	70.2
400	60.8	64.9	67.2	69.1	71.2	72.4	73.2	75.1	77.7	77.5	77.1	75.0	68.9
500	60.8	65.3	67.4	69.8	71.3	72.6	73.6	75.8	77.6	77.4	77.1	74.8	68.0
630	58.7	63.5	67.5	69.9	70.5	72.0	73.0	75.1	76.7	75.9	75.0	73.5	65.5
800	57.4	63.9	67.5	69.7	70.1	71.9	72.8	74.9	75.5	74.3	73.8	71.5	63.9
1000	55.5	62.7	66.1	67.9	70.1	72.4	72.8	74.9	74.9	72.9	73.4	70.8	62.8
1250	53.8	60.8	63.4	66.7	69.2	71.2	72.2	73.7	74.4	72.0	72.3	70.0	60.9
1600	50.1	59.6	62.2	64.9	68.1	69.2	70.1	72.1	71.9	69.6	68.8	67.2	58.1
2000	45.6	55.9	59.7	63.0	65.3	67.2	68.5	69.3	67.9	66.2	65.3	62.7	52.6
RUN CONF10MFLWC	2500	41.7	52.4	55.8	60.0	62.7	64.6	66.3	66.8	66.0	62.5	60.7	57.1
TAPE X00200	3150	33.1	43.0	49.9	53.9	58.2	59.6	61.1	61.2	61.7	56.7	54.0	48.1
FAN TIP SPEED	4000	23.0	37.0	41.2	46.4	50.2	51.8	52.9	53.2	53.0	47.6	44.7	34.5
FT/SEC	5000	17.1	32.4	38.4	43.5	46.8	48.4	49.0	49.6	48.7	42.2	38.2	29.3
	6300	6.9	18.5	27.1	32.9	37.9	38.8	38.1	39.8	36.7	30.4	23.4	8.8
	8000			7.9	14.7	17.6	20.3	20.9	21.7	17.4	14.4	7.9	
	10000												
OVERALL CALCULATED	70.7	75.1	77.9	79.6	81.4	82.9	84.1	86.1	88.0	90.2	92.9	91.2	85.7
PNDB	74.6	80.6	83.5	86.1	88.6	90.1	91.3	93.0	93.9	94.0	95.4	93.3	86.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 20 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

RDG. NO.	MO EGA	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
80	71.4	81.2	79.2	80.2	81.3	82.4	81.8	82.5	83.9	86.2	90.2	88.4	91.2	126.7			
100	71.3	75.9	77.1	79.2	80.7	81.6	82.0	83.2	82.1	81.9	89.9	91.1	90.9	126.4			
125	72.4	74.9	77.2	77.7	79.0	78.9	79.3	81.0	82.9	88.2	91.9	92.6	94.2	128.0			
200	74.3	75.5	77.0	78.8	79.7	80.3	81.2	83.8	86.5	90.4	94.3	97.3	98.0	133.7			
250	74.8	77.3	78.3	78.6	80.5	82.1	84.5	85.6	88.1	92.9	98.1	99.3	99.6	136.8			
315	75.9	79.7	79.2	82.2	83.8	84.2	85.3	87.5	90.9	95.8	100.7	103.4	102.4	139.0			
400	78.2	80.2	82.5	82.5	84.3	85.5	86.6	89.2	93.5	99.0	104.0	104.9	103.7	141.2			
500	79.5	80.5	82.3	83.3	84.9	86.8	87.9	90.1	94.5	101.6	106.1	107.5	105.3	142.6			
630	81.1	82.4	83.4	84.9	86.0	87.4	89.8	91.7	96.4	102.7	107.7	108.8	106.4	143.5			
800	82.1	83.7	84.4	86.2	87.5	88.9	90.5	93.2	97.2	103.2	108.4	109.9	107.7	142.2			
1000	86.0	87.2	88.2	88.0	88.6	90.2	92.1	94.0	97.0	102.3	106.8	107.9	106.7	141.0			
1250	83.3	85.6	87.6	88.4	88.7	90.8	92.2	95.4	98.1	102.1	106.9	106.5	104.1	139.7			
1600	83.6	86.2	87.2	87.7	88.8	91.2	92.6	95.0	98.7	101.5	103.2	104.1	102.2	138.9			
2000	84.2	86.5	88.5	87.8	89.8	91.2	93.3	95.8	98.5	100.8	101.8	102.7	100.2	136.5			
2500	84.8	87.1	89.1	89.9	91.7	92.1	93.2	95.6	98.8	99.9	101.1	101.3	99.1	138.8			
3150	84.5	87.0	88.8	89.8	91.4	92.5	93.7	96.1	99.1	100.4	101.1	101.8	99.3	136.0			
4000	83.0	86.8	89.3	90.1	90.9	91.8	93.2	95.9	97.8	98.9	99.9	100.8	98.3	137.8			
5000	83.1	87.4	89.7	90.7	90.6	92.2	93.1	95.7	97.5	98.1	98.8	100.7	98.2	136.3			
6300	82.0	86.5	88.3	89.6	91.7	92.8	93.4	96.3	98.1	97.4	99.9	101.5	99.3	137.9			
8000	81.7	85.6	86.6	89.1	90.9	91.3	92.9	94.8	96.6	96.3	98.9	100.5	100.3	136.6			
10000	80.4	85.3	86.6	88.1	90.9	91.3	92.9	94.4	94.2	94.4	96.8	98.6	98.3	136.2			
12500	77.8	83.3	85.2	86.9	89.0	90.1	92.1	93.4	93.9	92.9	93.0	94.1	93.8	134.7			
20000	72.4	77.9	80.6	82.4	86.5	86.3	89.3	90.0	91.9	90.1	93.2	89.7	89.3	131.8			
25000	69.5	75.8	76.9	79.7	82.2	82.9	83.9	86.3	88.5	86.4	90.2	87.5	87.2	127.9			
31500	66.0	72.9	75.8	77.5	79.8	80.2	81.7	84.1	85.4	82.7	86.7	83.8	83.1	126.7			
40000	69.7	68.8	72.2	75.2	78.3	78.3	76.5	81.1	81.3	81.6	82.4	76.1	74.4	129.0			
50000	55.1	60.8	64.8	66.5	68.9	68.7	69.7	73.1	73.3	72.6	75.9	67.0	67.3	129.0			
63000	45.3	52.8	58.0	58.9	59.4	60.5	61.7	65.2	65.8	65.4	69.9	67.0	67.3	152.6			
80000	37.8	46.9	51.6	51.4	51.9	53.5	53.9	56.7	58.4	58.1	63.9	61.2	61.2				

ANECHOIC JET NOISE TEST FACILITY RESULTS
CONFIGURATION 1 / TEST POINT 21 ACQUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO.	NO EGA	RADIOAL 150. FT. (46. M)	VEHICLE CONFIG	LOC	DATE	RUN	TAPE	BAR	TAMB	TWET	HACT	FREQ	ANGLES FROM INLET IN DEGREES (AND RADIAN)			PROC. DATE	MONTH	DAY	HR.	18.9
													40.	50.	60.					
50	81.1	84.9	84.4	87.4	89.0	89.4	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	0.	0.	0.	0.	0.	
63	83.4	85.4	87.7	89.5	90.7	91.8	94.4	98.7	104.2	109.2	110.1	108.9	153.5							
80	84.7	85.7	87.5	88.5	90.1	92.0	93.1	95.3	99.7	106.8	111.3	112.7	110.5	157.9						
100	86.3	87.6	88.6	90.1	91.2	92.6	95.0	96.9	101.6	107.9	112.9	114.0	111.6	159.3						
125	87.3	88.9	89.6	91.4	92.7	94.1	95.7	98.4	102.4	108.4	113.6	115.1	112.9	160.2						
200	88.5	90.8	92.8	93.6	93.9	96.0	97.4	100.6	103.3	107.4	110.1	111.7	109.3	158.9						
250	88.9	91.4	92.4	92.9	94.0	96.4	97.8	100.2	103.9	106.7	108.4	109.4	107.4	157.7						
315	89.4	91.7	93.7	93.0	95.1	96.4	98.6	101.0	103.7	106.0	107.0	107.9	105.4	156.4						
400	90.0	92.3	94.3	94.1	95.1	96.7	97.8	99.0	101.4	104.4	105.7	106.4	104.6	155.2						
630	88.4	92.2	94.7	95.5	96.3	97.2	98.6	101.2	103.2	104.3	105.2	106.1	103.7	154.6						
800	88.5	92.8	95.1	96.1	96.0	97.6	98.5	101.1	102.8	103.4	105.1	106.0	103.6	154.5						
1000	87.4	92.0	93.8	95.1	97.1	98.2	98.9	101.8	103.5	102.9	105.3	107.0	104.7	154.9						
1250	87.4	91.2	92.3	94.8	97.1	98.0	99.9	102.1	103.3	103.2	105.9	106.7	105.5	155.1						
1600	86.3	91.2	92.5	94.0	96.8	97.2	98.8	100.7	102.5	102.2	104.8	106.4	106.2	154.6						
2000	84.1	89.6	91.5	93.2	95.2	95.8	98.4	99.7	100.5	100.7	102.2	104.9	104.6	153.2						
2500	83.1	88.6	90.0	92.2	95.0	95.8	98.0	99.5	100.8	99.8	102.2	104.4	103.6	152.8						
3150	80.1	85.7	88.3	90.2	94.2	94.0	97.0	97.9	99.6	97.7	99.6	101.9	101.5	151.4						
4000	78.4	84.7	85.8	88.6	91.1	91.8	92.8	95.2	97.4	95.3	99.1	98.6	98.1	149.0						
5000	76.9	83.7	86.7	88.4	90.6	91.1	92.6	94.9	96.2	93.6	97.5	98.4	98.1	148.5						
6300	83.2	85.7	88.7	91.8	91.8	90.0	94.6	94.8	95.2	96.0	97.3	96.6	148.4							
8000	72.0	77.7	81.7	83.4	83.8	85.6	86.6	90.0	90.2	89.5	92.8	93.0	91.3	144.6						
10000	67.2	74.7	79.9	80.8	81.3	82.5	83.6	87.2	87.7	87.3	91.8	89.0	89.2	143.4						
12500	67.2	76.3	81.0	80.9	81.3	82.9	83.3	86.2	87.8	87.6	93.4	88.7	90.6	145.7						
OVERALL CALCULATED	100.4	103.5	105.2	106.3	108.0	109.1	110.6	112.9	115.3	118.0	121.4	122.7	120.8	169.2						
PWDB	109.4	113.7	115.5	117.2	119.5	120.3	122.0	124.0	125.8	126.3	128.9	130.3	129.1							

AMECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 21 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

		FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)													
		ANGLES FROM INLET IN DEGREES (AND RADIAN)													
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
		(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.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	
NO EGA		50	52.9	58.3	58.9	62.6	64.6	65.1	66.1	67.9	70.6	74.3	77.7	78.1	73.7
SIDELINE 2400. FT.		63	55.1	58.7	62.1	62.9	65.1	66.4	67.4	69.6	73.1	77.6	80.9	79.6	74.9
(731.52 M)		80	56.4	59.0	61.9	63.6	65.6	67.6	68.6	70.4	74.1	80.1	82.9	82.1	76.3
NFA (1. RPM		100	57.9	60.8	62.9	65.2	66.7	68.2	70.4	71.9	75.9	81.1	84.4	83.3	77.2
(0. RAD/SEC)		125	58.8	61.9	63.8	66.3	68.1	69.6	71.1	73.3	76.6	81.5	85.1	84.1	78.2
NFK (1. RPM		160	62.4	65.4	67.5	68.1	69.1	70.8	72.6	74.1	76.3	80.4	83.2	82.0	77.0
(0. RAD/SEC)		200	59.5	63.5	66.7	68.3	69.0	71.3	72.5	75.3	77.2	80.1	81.1	80.3	73.9
NFD (0. RPM		250	59.6	63.9	66.1	67.4	69.0	71.5	72.7	74.7	77.6	79.3	79.2	77.6	71.5
(785. RAD/SEC)		400	60.0	64.2	67.5	69.1	71.4	71.9	72.9	74.9	77.2	77.0	76.4	73.7	66.9
AIRFLOW RATIO		500	59.3	63.8	66.9	68.8	70.8	72.1	73.1	75.0	77.1	77.1	75.9	73.6	66.2
WF/W 6.81		630	57.2	63.0	67.0	68.6	70.0	71.0	72.2	74.4	75.5	75.2	74.0	71.8	64.0
VEHICLE CELL41		800	56.4	62.8	66.7	68.7	69.1	70.9	71.6	73.7	74.5	73.6	73.0	70.5	62.1
CONFIG NC40		1000	54.2	61.2	64.6	66.9	69.6	70.9	71.3	73.7	74.4	72.1	72.2	70.1	61.3
LOC C41 ANECH CH		1250	52.8	59.3	62.1	65.7	68.7	69.7	71.4	73.0	73.1	71.3	71.3	68.0	59.4
DATE 05-28-76		1600	49.8	57.6	60.9	63.6	67.1	67.7	69.1	70.4	70.9	68.6	68.3	65.2	56.4
RUN 'CONFLOWLWC		2000	45.3	54.2	58.2	61.3	64.1	65.4	67.2	67.8	67.2	65.2	64.3	60.7	50.4
TAPE X00210		2500	40.9	50.4	54.3	58.0	61.7	62.8	64.8	65.3	65.0	61.5	60.0	55.8	42.9
FAN TIP SPEED		3150	32.6	43.0	48.6	52.4	57.5	57.6	60.3	59.9	59.9	55.2	53.2	46.3	30.5
FT/SEC		4000	22.7	35.2	40.2	45.4	49.2	50.3	50.9	52.0	51.8	45.8	43.5	32.5	11.7
		5000	16.6	30.4	37.7	42.0	45.8	46.7	47.7	48.6	47.2	40.2	37.2	26.3	2.6
		6300	9.2	17.5	26.6	33.2	38.1	38.8	36.4	39.1	35.7	30.4	21.9	7.3	
		8000			7.1	13.7	16.6	19.3	19.4	20.2	15.7	7.1			
		10000													
OVERALL CALCULATED			70.1	74.4	77.4	79.1	81.0	82.4	83.7	85.6	87.7	90.1	92.1	90.9	85.2
			73.9	79.4	82.9	85.1	87.9	89.0	90.5	92.0	93.3	93.6	94.4	92.6	85.5

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 1 2/1 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

RDG. NO.	NO EGA	MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)										PROC. DATE - MONTH 8 DAY 24 HR. 18.5				
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.	150.	160.	0.
100	71.4	81.4	78.9	79.5	81.3	82.4	81.8	82.5	83.2	86.0	89.7	88.4	90.9	126.4		
125	71.6	76.1	77.4	79.2	81.2	81.9	82.0	83.2	81.6	82.2	89.6	90.8	91.1	120.3		
160	72.0	75.4	77.4	78.0	79.5	79.2	79.0	80.7	83.2	88.2	91.9	92.6	93.9	128.0		
200	74.9	75.6	77.3	79.1	79.7	80.5	81.4	83.8	86.8	90.4	94.1	97.5	98.5	131.5		
250	75.3	77.3	78.6	78.4	80.5	81.8	84.0	85.4	87.8	93.2	98.1	99.5	99.6	133.8		
315	75.9	79.4	79.4	82.2	84.1	84.7	85.8	87.7	90.7	95.5	100.5	103.6	102.4	136.8		
400	78.4	80.5	82.0	82.5	84.3	85.7	86.6	89.0	93.2	98.8	104.0	105.4	104.0	139.2		
500	79.3	80.8	82.5	83.6	84.7	86.5	88.2	90.3	94.5	102.1	106.3	108.2	106.0	141.7		
630	81.1	82.6	82.9	84.7	86.3	87.9	89.5	91.7	95.9	102.2	107.2	108.8	106.9	142.4		
800	82.1	83.9	84.7	86.2	87.5	88.9	90.5	93.4	96.9	102.2	107.4	109.4	107.7	142.9		
1000	85.0	86.7	87.5	88.0	88.4	90.0	92.1	94.5	96.7	101.8	105.5	106.7	106.5	141.4		
1250	83.0	85.1	87.6	87.6	88.9	90.8	92.4	95.4	98.3	101.4	103.4	105.0	103.6	140.1		
1600	83.6	86.2	86.9	87.7	89.1	91.4	92.8	95.0	98.4	101.8	101.5	103.9	101.9	139.3		
2000	83.9	86.5	88.0	88.0	90.3	91.7	93.3	95.8	98.5	100.8	100.5	101.9	99.2	138.5		
2500	83.5	86.8	88.6	90.1	91.2	91.8	93.5	95.1	99.1	100.4	100.1	101.3	98.6	138.4		
3150	84.0	86.8	89.1	89.8	91.2	92.5	93.7	96.3	99.1	99.9	100.3	101.5	99.5	138.6		
4000	83.3	86.1	88.8	89.6	91.2	91.8	93.6	96.4	98.1	98.9	99.4	101.8	98.6	138.2		
5000	82.9	86.7	88.7	90.2	90.6	92.7	93.6	96.2	97.7	98.6	99.3	101.7	99.7	138.2		
6300	81.5	86.5	87.8	89.3	91.9	93.3	93.9	96.6	98.3	98.2	100.1	102.3	101.0	138.8		
8000	81.2	84.8	85.6	88.9	91.5	92.8	94.0	96.4	97.9	98.3	99.4	102.1	101.3	138.3		
10000	79.7	84.8	85.9	88.1	91.2	92.0	92.9	95.8	97.4	96.8	97.9	101.3	101.3	137.3		
12500	77.3	82.8	84.2	86.2	89.5	90.8	92.1	94.4	94.9	95.1	96.8	99.6	100.1	135.1		
16000	75.1	80.9	82.6	85.3	87.8	89.7	91.4	93.0	94.6	93.6	95.0	98.0	98.4	132.8		
20000	72.1	77.2	79.6	81.9	86.5	87.0	89.3	91.0	92.4	91.4	92.0	94.4	95.5	132.4		
25000	68.2	75.0	76.2	79.0	82.2	82.9	84.7	86.3	89.5	87.9	89.4	90.2	90.8	132.2		
31500	66.0	72.4	74.8	77.0	79.8	80.2	81.7	84.6	86.1	84.5	86.2	88.8	88.7	128.3		
40000	69.7	68.6	71.5	75.0	78.3	79.1	77.3	81.6	82.5	82.4	82.2	83.5	83.6	127.1		
50000	55.3	60.0	64.0	65.5	67.1	68.7	69.6	72.6	74.3	73.6	75.9	77.1	76.2	128.9		
63000	44.5	52.5	57.5	58.6	58.6	60.3	61.9	65.5	66.5	66.6	68.2	69.3	69.0	152.5		
80000	37.0	45.9	51.1	50.4	52.1	53.7	54.1	56.7	58.6	59.1	61.9	60.7	62.2			
OVERALL MEASURED																
OVERALL CALCULATED	94.7	97.8	99.3	100.6	102.4	103.7	105.1	107.5	109.9	112.6	115.5	117.4	116.0			
PNOB	107.5	110.5	112.3	113.3	114.8	116.2	117.4	119.9	122.5	124.4	125.9	127.7	126.0			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 22 ACQUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11. lin²)

RDG. NO.	NO EGA	FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
63	83.6	50	51.1	84.6	87.4	89.3	89.9	91.0	92.9	93.9	100.7	105.6	108.6	107.6	153.4	
80	84.5	60	85.7	87.2	87.7	89.5	90.9	91.8	94.2	98.4	104.0	109.2	110.6	109.2	155.9	
100	86.3	80	87.8	88.1	89.9	91.5	93.1	94.7	96.9	101.1	107.4	112.6	113.4	111.2	159.1	
125	87.3	100	89.1	89.9	91.4	92.7	94.1	95.7	98.6	102.1	107.4	112.6	114.6	112.9	159.6	
160	70.2	125	92.7	93.2	93.6	95.2	97.3	99.7	101.9	107.0	110.7	111.9	111.7	111.7	158.0	
200	88.2	150	92.8	92.8	94.2	96.0	97.7	100.6	103.5	106.6	108.6	110.2	108.8	108.8	156.0	
250	68.9	200	91.4	92.2	92.9	94.3	96.6	98.0	100.2	103.7	107.0	106.7	109.1	107.1	155.2	
315	89.2	250	93.2	93.2	95.6	96.9	98.6	101.0	103.7	106.0	105.7	107.2	104.4	104.4	155.0	
400	88.8	315	93.8	95.4	96.5	97.1	98.7	100.4	104.3	105.7	105.4	106.5	103.8	103.8	155.3	
500	89.3	400	92.1	94.4	95.1	96.5	97.8	99.0	101.6	104.4	105.2	105.6	106.8	104.8	154.8	
630	88.6	500	91.4	94.2	95.0	96.6	97.2	99.1	101.7	103.4	104.3	104.7	107.1	103.9	154.8	
800	88.3	630	92.1	94.1	95.6	96.0	98.1	99.0	101.6	103.1	103.9	104.6	107.0	105.1	155.5	
1000	86.9	800	92.0	93.3	94.8	97.4	98.5	99.4	102.1	103.8	103.7	105.6	107.7	106.5	155.5	
1250	86.9	1000	90.5	91.3	94.6	97.1	98.5	99.6	102.1	103.5	103.9	105.1	107.7	107.0	155.0	
1600	85.6	1250	90.7	91.8	94.0	97.1	97.9	98.8	101.7	103.0	102.7	103.8	107.2	107.2	153.9	
2000	83.6	1600	89.1	90.5	92.4	95.7	97.1	98.4	100.7	101.2	101.4	103.1	105.9	106.4	153.4	
2500	82.1	2000	87.8	89.5	92.2	94.7	96.6	98.3	100.0	101.5	100.5	101.9	104.9	105.3	151.8	
3150	79.9	2500	84.9	87.3	89.7	94.2	94.8	97.0	98.7	100.1	99.1	99.8	102.1	103.3	149.5	
4000	77.1	3150	83.9	85.1	87.9	91.1	91.8	93.6	95.2	98.4	96.8	98.3	99.1	99.6	148.8	
5000	76.9	4000	83.2	85.7	87.9	90.6	91.1	92.6	95.4	97.0	95.3	97.0	99.6	99.6	145.0	
6300	83.2	5000	82.1	85.0	88.5	91.8	92.6	90.8	95.1	96.0	95.9	95.7	97.0	97.1	143.7	
8000	72.2	6300	76.9	80.9	82.4	84.0	85.6	86.3	89.5	91.2	90.5	92.8	94.0	93.1	145.6	
10000	66.5	8000	74.5	79.4	80.6	80.6	82.2	83.9	87.4	88.4	88.6	90.1	91.2	91.0	149.1	
12500	66.4	10000	75.3	80.5	79.9	81.5	83.2	83.5	86.2	88.0	88.6	91.4	90.2	91.6	169.1	
OVERALL CALCULATED 100% 103.1 104.7 106.1 108.1 109.4 110.7 113.2 115.5 117.9 120.7 122.6 121.2																
PRDB 108.9 113.2 115.0 117.0 119.5 120.8 122.2 124.4 126.3 126.8 128.3 130.7 130.2																

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION / TEST POINT 22 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY)												
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
50	52.9	58.0	59.1	62.6	64.9	65.6	66.6	68.1	70.4	74.1	77.5	78.1	73.7
63	55.4	59.0	61.6	62.9	65.1	66.6	67.4	69.4	72.8	77.3	80.9	80.1	75.1
80	56.1	59.2	62.1	63.9	65.4	67.4	68.9	70.6	74.1	80.6	83.2	82.8	77.0
100	57.9	61.0	62.4	64.9	66.9	68.7	70.2	71.9	75.4	80.6	83.9	83.3	77.7
125	58.8	62.2	64.1	66.3	68.1	69.6	71.1	73.6	76.3	80.5	84.1	83.6	78.2
160	61.4	64.9	66.8	68.1	68.8	70.6	72.6	74.6	76.0	79.9	82.0	80.7	76.7
200	59.3	63.0	66.7	67.5	69.3	71.3	72.8	75.3	77.5	79.4	79.6	78.8	73.4
250	59.6	63.9	65.9	67.4	69.2	71.8	73.0	74.7	77.4	79.5	77.5	77.3	71.3
315	59.6	63.9	66.7	67.5	70.3	71.8	73.5	75.3	77.2	78.3	76.2	74.9	67.9
400	58.8	63.9	67.0	69.4	70.9	71.7	73.2	74.4	77.5	77.5	75.4	73.7	66.4
500	58.8	63.5	67.1	68.8	70.6	72.1	73.1	75.3	77.1	76.6	75.1	73.3	66.5
630	57.4	62.3	66.5	68.1	70.2	71.0	72.7	74.9	75.7	75.2	73.5	72.8	64.2
800	56.1	62.2	65.7	68.2	69.1	71.4	72.1	74.2	74.7	74.1	72.5	71.5	63.6
1000	53.7	61.2	64.1	66.7	69.8	71.4	71.8	73.9	74.6	72.9	72.4	70.8	63.0
1250	52.3	58.6	61.1	65.5	68.7	70.2	71.2	73.0	73.4	72.0	70.6	69.0	60.9
1600	49.1	57.1	60.2	63.6	67.4	68.3	69.1	71.4	71.4	69.1	67.3	66.0	57.4
2000	44.8	53.7	57.2	60.5	64.6	66.2	67.2	68.8	67.9	66.0	64.3	61.7	52.1
2500	39.9	49.6	53.8	58.0	61.5	63.6	65.0	65.8	65.8	62.3	59.7	56.3	44.7
3150	32.3	42.2	47.6	51.9	57.5	58.4	60.3	60.9	60.4	56.4	52.2	46.6	32.3
4000	21.5	34.5	39.5	44.7	49.2	50.3	51.7	52.0	52.8	47.3	42.7	33.0	13.2
5000	16.6	29.9	36.7	41.5	45.8	46.7	47.7	49.1	48.0	42.0	36.7	27.5	4.1
6300	9.2	17.3	25.9	32.9	38.1	39.5	37.1	39.6	36.9	31.1	21.6	7.1	
8000			6.4	12.7	16.9	19.3	19.2	19.7	16.7	8.1			
10000													
OVERALL CALCULATED	69.7	74.2	77.0	78.9	81.0	82.6	83.8	85.8	87.7	89.9	91.4	90.7	85.3
PND8	75.2	79.1	82.4	85.0	88.1	89.5	90.6	92.5	93.5	93.7	93.6	92.5	85.8

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 22 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

RDG. NO.	NO EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.
100	64.4	73.7	71.2	72-2	72-5	73.7	73.3	74.2	74.2	74.7	77.7	81.9	79.6	82.4	118.2		
125	64.0	68.9	69.6	71.4	72.5	73.4	73.2	74.4	74.4	74.1	74.2	81.1	81.8	82.4	117.8		
160	65.9	68.4	69.9	70.0	72.0	72.2	72.0	73.7	73.7	75.4	80.0	83.2	83.6	85.4	119.6		
200	67.5	68.5	70.0	72.1	72.2	72.5	73.9	76.1	76.8	78.8	81.6	85.1	88.5	89.5	122.7		
250	67.6	70.3	71.1	71.4	73.0	73.8	77.0	77.6	79.3	83.7	88.6	90.5	90.6	92.6	124.6		
315	69.4	71.9	72.7	74.7	75.7	77.3	77.3	79.2	81.7	86.0	90.5	93.6	93.4	95.4	127.6		
400	70.7	72.7	74.2	75.2	76.6	77.0	78.8	81.0	83.7	88.0	93.0	94.9	94.7	96.9	128.9		
500	71.8	73.0	74.8	75.8	76.9	77.3	79.9	82.1	84.3	88.9	93.6	96.2	95.0	97.9	129.3		
630	72.1	74.4	75.1	76.7	77.8	78.1	81.0	83.7	85.6	88.5	92.2	95.3	93.9	96.1	129.1		
800	73.1	75.7	76.7	77.7	79.0	78.7	81.8	83.7	86.7	89.2	92.9	93.4	91.2	93.9	126.6		
1000	74.4	76.7	77.7	79.0	79.9	80.0	82.9	84.5	86.7	89.3	91.3	90.4	89.0	91.2	127.6		
1250	74.5	76.1	79.8	79.9	80.4	80.6	82.9	85.6	87.6	90.1	90.8	90.5	87.6	89.0	127.9		
1600	75.1	78.2	79.4	81.0	81.6	81.9	83.3	86.0	88.2	91.0	91.5	90.4	87.9	89.9	124.5		
2000	75.9	79.2	82.2	82.0	83.6	83.0	85.1	86.5	89.0	91.0	91.3	90.9	88.2	90.1	129.1		
2500	79.3	82.8	85.3	84.9	85.7	86.6	86.9	87.4	90.1	90.7	91.4	92.3	90.3	90.3	130.2		
3150	78.0	82.8	85.3	84.8	86.4	85.0	87.4	88.6	89.8	90.9	90.1	90.8	89.8	90.1	130.1		
4000	79.0	83.1	84.6	84.6	86.7	85.3	88.7	90.1	90.1	90.2	89.6	91.0	90.6	90.6	130.5		
5000	77.9	82.2	83.2	85.7	86.7	85.3	88.7	89.3	92.2	93.5	90.8	92.5	93.4	93.9	132.5		
6300	74.5	80.0	82.6	84.6	85.7	85.3	87.9	89.3	91.1	89.7	91.1	92.3	92.5	92.5	130.8		
8000	74.0	78.8	81.1	82.9	85.5	84.8	87.7	88.6	89.6	89.8	90.0	91.3	90.8	90.8	130.2		
10000	71.7	78.3	79.6	81.9	84.9	83.5	86.4	88.4	88.9	88.5	88.4	89.0	89.0	89.0	129.4		
12500	69.6	75.8	78.2	80.4	83.0	82.8	85.4	86.4	87.0	86.2	86.0	85.9	86.8	86.8	129.6		
16000	67.4	74.4	76.1	79.1	82.1	82.7	84.6	85.6	86.4	84.4	83.7	84.0	83.9	83.9	127.9		
20000	64.4	71.0	73.1	75.2	79.7	82.6	82.3	83.0	84.2	81.7	81.3	80.4	79.8	79.8	126.2		
25000	60.6	69.3	69.5	72.0	75.0	77.7	78.0	78.8	80.3	77.7	78.2	75.5	74.8	74.8	123.5		
31500	57.8	65.9	67.7	69.6	72.6	74.8	75.3	76.6	77.0	73.6	74.0	72.6	71.8	71.8	122.7		
40000	67.8	64.1	66.1	70.8	75.4	74.1	70.6	75.5	75.3	72.3	72.3	72.3	73.4	73.4	125.7		
50000	51.4	54.3	57.4	58.9	60.7	63.5	62.0	64.9	64.9	64.5	61.8	59.5	59.0	59.0	118.6		
63000	35.9	46.9	50.8	51.5	51.2	58.1	53.3	56.3	56.4	54.3	53.5	48.4	48.4	48.4	116.7		
80000	28.0	40.7	45.7	45.0	43.7	58.3	45.7	47.1	48.5	46.8	45.1	38.3	40.1	40.1	142.5		
OVERALL MEASURED																	
OVERALL CALCULATED	87.8	91.8	93.7	94.6	96.5	95.9	98.3	99.9	101.4	102.2	103.9	105.2	104.4	104.4			
PNDB	101.4	105.2	107.2	107.6	109.4	108.5	111.2	113.2	114.6	114.8	116.1	117.0	116.7	116.7			

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 23 ACQUSTIC RANGE 12.2m(40ft.) ARC

SIZE MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM., DAY - JENOTS)

FREQ.	40.				50.				60.				70.				80.				90.				100.				110.				120.				130.				140.				150.				160.																																																																																																																																																																																																																																												
	(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)	(2.97)	(3.14)	(3.32)	(3.49)	(3.67)	(3.84)	(4.02)	(4.19)	(4.37)	(4.54)	(4.72)	(4.89)	(5.07)	(5.24)	(5.42)	(5.59)	(5.77)	(5.94)	(6.12)	(6.29)	(6.47)	(6.64)	(6.82)	(6.99)	(7.17)	(7.34)	(7.52)	(7.69)	(7.87)	(8.04)	(8.22)	(8.39)	(8.57)	(8.74)	(8.92)	(9.09)	(9.27)	(9.44)	(9.62)	(9.79)	(9.97)	(10.14)	(10.32)	(10.49)	(10.67)	(10.84)	(11.02)	(11.19)	(11.37)	(11.54)	(11.72)																																																																																																																																																																																																																													
NO EGA	50	74.6	77.1	79.9	79.9	81.5	80.9	82.5	84.4	86.9	91.2	95.6	98.8	99.9	143.	80	80.2	84.0	86.2	88.9	93.2	98.2	100.1	99.9	145.	90	82.1	85.1	87.3	89.5	94.1	98.8	101.4	100.2	146.	100	83.0	86.2	88.1	90.8	93.7	97.4	100.5	99.1	145.	110	84.2	87.0	88.9	91.9	94.4	98.1	98.6	96.4	145.	120	85.2	88.1	89.7	91.9	94.5	96.5	95.6	94.2	144.	130	85.7	88.2	90.8	92.8	95.4	96.1	95.7	92.8	144.	140	86.8	87.1	88.5	91.2	93.4	96.2	95.6	93.1	145.	150	88.8	90.3	91.7	94.2	96.3	96.5	96.2	93.4	145.	160	91.0	89.8	92.2	92.6	95.3	95.9	96.0	97.5	146.	170	91.7	90.3	92.7	93.9	95.1	96.2	95.4	96.4	146.	180	92.0	90.7	94.0	95.5	95.4	95.5	95.0	96.4	147.	190	93.5	92.1	94.7	97.6	98.8	96.2	97.9	98.8	149.	200	91.1	90.8	93.4	94.8	96.5	95.2	96.6	97.7	147.	250	91.1	90.5	93.4	94.3	95.3	95.4	95.6	97.0	146.	315	90.3	89.4	92.3	94.3	94.8	94.4	94.3	94.9	146.	400	89.3	89.1	91.7	92.7	93.2	92.4	92.3	92.1	144.	500	89.0	89.6	91.6	92.5	93.3	91.3	90.7	90.9	144.	630	87.5	90.3	90.1	90.8	91.9	89.4	89.1	88.2	142.	800	86.6	86.9	87.7	89.2	86.6	87.1	84.4	83.7	140.	1000	83.5	85.7	86.2	87.5	87.8	84.4	84.9	82.6	139.	1250	84.1	84.3	84.9	87.7	84.1	89.0	88.9	85.8	142.	1600	80.4	80.4	80.4	80.4	81.8	81.8	81.4	78.9	135.	2000	75.8	75.8	75.8	75.2	78.3	78.3	76.2	75.5	133.	2500	73.1	73.1	73.1	73.1	75.1	76.5	77.9	76.2	138.	3150	102.2	102.0	104.0	105.6	107.0	107.6	109.1	110.2	109.4	4000	113.4	114.3	115.3	116.8	117.9	117.3	117.4	117.7	117.2	5000	108.8	110.8	113.4	114.3	115.3	116.8	117.9	117.3	117.2

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 23 | ACOUSTIC RANGE 45.7m(150ft.) ARC | SIZE FULL-.33m²(513in.²)

NO EGA SIDELINE 2400. FT. (731.52 M)	FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)																
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.				
	50	(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.)
	63	47.6	51.2	53.8	55.6	57.4	59.6	61.4	63.3	66.6	69.9	69.9	69.6	65.9				
	100	48.9	52.8	54.6	56.9	58.4	58.9	61.7	63.2	65.1	66.8	68.9	69.8	64.7				
	125	49.8	53.9	56.1	57.8	59.6	62.4	63.8	66.1	67.5	69.6	67.6	61.7					
	160	50.9	54.9	57.0	59.1	60.3	60.6	63.3	64.6	66.0	67.4	67.7	64.5	59.2				
	200	50.8	54.0	58.9	59.8	60.8	61.0	63.3	65.5	66.7	68.1	67.1	64.3	57.4				
	250	51.1	55.9	58.4	60.7	61.7	62.2	63.5	65.7	67.1	68.8	67.5	63.8	57.3				
	315	51.6	56.7	60.9	61.5	63.6	63.1	65.1	66.0	67.7	68.5	66.9	63.9	56.9				
	400	54.5	59.9	63.7	64.1	65.4	64.4	66.7	66.6	68.5	67.8	66.6	64.7	58.2				
	500	52.6	59.5	63.4	63.8	65.3	64.6	66.8	67.5	67.9	67.6	64.9	62.6	56.7				
	630	53.2	59.3	62.2	63.1	65.7	64.5	67.7	68.6	67.7	66.4	63.8	62.0	56.2				
	800	51.1	57.7	60.2	63.7	66.6	65.4	67.8	70.2	70.5	66.3	65.6	63.3	57.9				
	1000	46.7	54.7	58.9	61.9	63.6	63.4	65.8	66.7	67.4	64.4	63.4	60.8	54.5				
	1250	45.1	52.6	56.6	59.5	62.7	62.2	64.9	65.2	65.1	63.5	61.1	58.3	50.4				
	1600	41.1	50.7	53.9	57.4	61.1	60.0	62.6	63.9	63.2	60.9	57.9	53.7	45.1				
	2000	37.1	46.7	51.2	54.8	58.1	58.2	60.5	60.8	60.0	57.0	53.5	47.9	38.9				
	2500	32.2	43.1	47.3	51.8	55.7	56.6	58.3	58.3	57.6	53.1	48.5	42.4	30.2				
	3150	24.6	36.0	41.2	45.2	50.7	53.9	53.3	53.0	52.2	46.7	41.5	32.6	16.6				
	4000	14.0	28.8	32.8	37.7	42.0	45.1	45.0	44.5	43.6	37.1	31.5	18.3					
	5000	8.4	23.5	29.5	34.1	38.6	41.2	41.3	41.1	38.8	31.1	24.6	11.3					
	6300	7.2	12.9	20.5	28.7	35.2	34.6	30.5	33.4	29.8	26.0	11.7						
	8000				6.0	10.5	14.1	11.8	12.1	7.3								
	10000																	
	12500																	
	OVERALL CALCULATED	62.5	67.9	71.3	72.9	75.0	74.4	76.8	78.0	78.8	78.9	79.2	78.1	73.1				
	PNDB	66.7	73.3	77.1	78.9	81.7	81.5	83.6	84.7	85.1	83.4	82.1	79.5	72.6				

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 23 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 18.5

ANGLES FROM INLET IN DEGREES (AND RADIAN) 110. 120. 130. 140. 150. 160.
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.
 FREQ. (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)(3.2)(3.5)(3.8)(4.1)(4.5)(5.0)(5.5)(6.0)(6.5)(7.0)(7.5)(8.0)(9.0)(10.0)(11.0)(12.0)(13.0)(14.0)(15.0)(16.0)

RDG. NO.	NO. EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	0.	0.
100	64.6	73.7	71.9	72.7	73.3	74.4	73.3	74.0	75.4	78.2	81.9	80.1	82.7	118.5					
125	64.6	69.6	69.6	71.2	72.5	73.4	73.2	74.4	73.6	74.4	81.1	81.8	82.1	117.7					
160	65.1	68.2	69.7	69.7	72.0	71.7	72.0	73.2	75.4	79.7	82.7	83.4	84.9	119.2					
200	67.3	69.0	70.5	72.1	72.7	73.0	74.2	76.1	78.5	81.6	84.8	88.0	88.5	122.3					
250	67.6	70.1	71.3	71.6	73.0	74.6	76.0	77.4	79.8	83.4	88.1	89.3	89.8	124.1					
315	69.4	71.9	72.4	74.7	76.3	76.7	77.8	79.5	81.9	85.5	90.2	92.0	92.4	126.7					
400	70.4	72.2	74.5	75.0	76.3	77.7	78.1	81.0	83.2	86.8	92.0	93.4	93.2	127.8					
500	71.3	72.8	74.8	75.3	76.7	77.8	78.4	80.5	82.7	84.9	87.2	91.2	90.4	128.0					
630	71.9	73.9	75.1	76.4	78.0	78.4	80.5	82.7	84.9	87.2	91.2	92.1	90.4	127.1					
800	72.6	74.9	76.2	76.9	78.5	79.9	81.3	83.4	85.7	87.7	90.7	90.9	87.9	126.8					
1000	73.7	76.0	77.5	78.3	79.6	81.0	81.9	84.0	86.0	88.1	89.8	88.2	86.0	126.3					
1250	73.5	75.8	78.8	79.6	81.0	82.1	82.7	85.1	87.4	89.5	90.1	89.5	85.6	127.2					
1600	73.9	77.7	79.7	80.7	81.6	83.2	83.3	84.7	87.4	89.5	90.2	89.1	86.4	127.5					
2000	74.9	77.7	81.2	81.3	83.6	83.7	85.3	86.5	88.0	90.0	90.0	89.7	86.7	128.3					
2500	77.3	80.8	84.1	83.9	85.2	85.6	86.4	87.4	88.6	89.4	90.6	91.3	88.3	129.3					
3150	76.5	81.3	83.6	84.3	85.7	86.5	86.7	89.1	89.8	89.9	90.1	90.8	88.5	129.8					
4000	77.8	81.6	83.3	83.4	85.4	87.3	87.9	90.4	91.1	90.2	90.1	92.3	89.6	130.6					
5000	75.6	79.7	81.2	83.7	85.6	87.4	87.8	90.5	92.7	91.6	92.3	93.9	92.4	131.8					
6300	73.0	77.3	81.1	82.6	84.9	86.5	87.2	88.1	90.8	89.7	90.9	93.8	91.5	130.6					
8000	72.2	76.1	78.6	81.6	84.0	86.1	86.7	87.9	88.9	88.8	88.5	90.8	88.8	129.3					
10000	70.2	75.3	77.9	80.9	83.9	84.3	85.4	87.6	88.4	87.5	86.2	88.3	86.8	128.4					
12500	67.6	73.6	76.0	78.9	82.2	83.6	84.9	85.7	86.0	85.2	83.5	85.6	83.8	127.0					
16000	65.7	72.4	74.4	77.3	80.8	82.2	83.4	84.8	85.6	83.4	81.2	82.5	80.7	126.3					
20000	62.4	68.5	71.4	74.2	78.7	79.1	80.6	82.0	83.2	80.7	78.6	78.9	77.1	125.6					
25000	59.3	66.1	68.0	70.8	73.5	75.2	76.2	77.3	79.5	76.4	75.2	73.7	72.1	121.9					
31500	57.3	63.7	66.2	68.6	71.8	72.3	73.5	75.1	76.0	72.3	71.3	71.3	69.0	121.2					
40000	70.3	65.1	66.6	72.3	77.4	77.6	70.6	76.5	76.1	79.5	72.3	73.8	74.6	127.5					
50000	52.9	53.1	57.1	59.1	61.0	62.0	60.8	64.4	63.9	65.2	60.3	59.2	58.5	118.1					
63000	35.9	45.1	50.6	50.7	50.5	51.9	51.8	55.1	54.9	53.3	50.5	47.2	45.6	114.6					
80000	28.8	39.5	45.7	43.8	43.2	44.8	44.2	46.3	46.7	45.3	42.3	36.8	38.1	116.3					
OVERALL MEASURED		86.6	90.1	92.4	93.6	95.6	96.8	97.5	99.3	100.9	101.4	103.0	104.2	102.7					
OVERALL CALCULATED		100.1	103.8	105.9	106.9	108.4	109.8	110.5	112.5	114.1	114.2	115.5	116.8	115.1					

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 24 ACQUISTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 18.9

RDG. NO.	NO EGA	FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PUL
50	74.6	77.1	77.6	79.9	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(3.00)	(3.20)	0.
63	75.6	77.4	79.7	80.2	81.5	82.9	83.3	86.2	88.4	92.0	97.2	98.6	98.4	98.2	98.4	143.3
30	76.5	78.0	80.0	81.6	83.2	83.6	85.7	87.9	90.1	92.4	96.4	97.3	95.6	98.2	98.2	144.4
100	77.1	79.1	80.3	81.6	83.7	85.1	86.5	88.6	90.9	92.9	95.9	96.1	93.1	93.1	93.1	143.5
125	77.8	80.1	81.4	82.1	83.5	84.8	86.2	87.1	89.2	91.2	93.3	95.0	93.4	91.2	91.2	143.0
160	78.9	81.2	82.7	83.5	85.2	87.3	87.9	90.3	92.5	94.1	95.3	94.7	90.8	90.8	90.8	143.9
200	78.7	81.0	84.0	84.8	86.8	88.4	88.5	89.9	92.7	94.7	95.4	94.4	91.6	91.6	91.6	144.2
250	79.1	82.9	84.9	85.9	86.8	88.9	90.6	91.7	93.2	95.3	95.2	94.9	91.9	91.9	91.9	144.9
315	80.2	82.9	86.5	86.5	88.8	89.9	91.7	92.6	93.8	94.7	95.9	96.5	93.6	93.6	93.6	146.0
400	82.5	86.1	89.3	89.1	90.5	90.8	91.7	92.6	93.8	94.7	95.2	95.4	93.8	93.8	93.8	146.5
500	81.8	86.6	88.8	89.6	91.0	91.8	92.0	94.4	95.1	95.2	95.4	96.0	94.9	94.9	94.9	147.3
630	83.1	86.9	84.7	88.7	90.8	92.7	93.3	95.7	96.4	95.5	95.5	97.6	94.9	94.9	94.9	148.4
800	81.0	85.1	86.6	89.1	91.0	92.8	93.2	95.9	98.1	96.9	97.6	99.3	97.8	97.8	97.8	148.4
1000	78.4	82.8	86.5	88.1	90.4	92.0	92.6	93.6	96.3	95.2	96.3	99.2	97.0	97.0	97.0	146.0
1250	77.9	81.7	84.3	87.3	89.6	91.7	92.4	93.6	94.6	94.6	94.4	94.1	96.5	94.5	94.5	146.0
1600	76.1	81.2	83.8	86.8	89.8	90.2	91.3	93.5	94.3	93.4	92.1	94.2	92.7	92.7	92.7	145.1
2000	73.9	79.9	82.2	85.2	88.5	89.9	91.2	92.0	92.2	91.4	89.8	91.9	90.1	90.1	90.1	143.0
2500	72.6	79.4	81.3	84.2	87.8	89.1	90.3	91.7	92.6	90.3	88.2	89.4	87.6	87.6	87.6	143.0
3150	70.2	76.2	79.1	82.0	86.5	86.8	88.3	89.8	89.8	90.9	88.4	86.3	86.7	84.8	84.8	141.3
4000	68.2	75.0	76.9	79.7	82.4	84.1	85.1	86.2	86.2	86.2	86.4	85.3	84.1	82.6	80.9	138.6
5000	68.2	74.6	77.0	79.4	82.7	83.2	84.4	86.0	86.8	83.2	82.1	82.2	82.2	79.9	79.9	137.8
6300	83.8	78.7	80.1	83.8	90.9	91.2	84.1	90.0	89.6	93.0	85.8	87.4	88.1	88.1	88.1	144.1
8000	69.8	70.0	74.0	76.0	77.9	78.9	77.7	81.3	80.8	82.1	77.2	76.1	75.4	75.4	75.4	136.7
10000	57.8	67.1	72.5	72.7	72.4	73.8	73.7	77.0	76.8	75.2	72.5	69.1	67.6	67.6	67.6	131.2
12500	58.3	68.9	75.1	73.2	72.6	74.2	73.6	75.8	76.1	74.7	71.7	66.3	67.5	67.5	67.5	132.9
PNDB	103.8	105.1	107.4	109.8	113.2	114.0	114.3	116.1	117.2	117.2	117.2	115.7	116.9	115.2	115.2	158.2

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT | ACOUSTIC RANGE | SIZE
 | 24 | 45.7m(150ft.) ARC | FULL - 33m²(513in.²)

		FULL SIZE SOUND PRESSURE ANGLES SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)															
		FROM INLET IN DEGREES (AND RADIAN)															
		90.	100.	110.	120.	130.	140.	150.	160.								
		(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.)
NO EGA	50	46.4	50.5	52.1	55.1	57.1	57.6	58.6	59.9	61.6	64.1	67.2	67.4	63.7			
SIDELINE 2400. FT.	63	47.4	50.7	54.1	55.4	57.1	58.6	58.9	61.4	62.8	65.3	68.9	68.1	64.4			
(731.52 M)	80	48.1	51.2	54.4	55.6	57.4	58.6	60.1	61.6	63.4	66.1	68.7	68.3	64.0			
NFA (0. RAD/SEC)	100	48.0	52.3	54.6	56.7	58.7	59.2	61.2	62.9	64.4	65.6	67.9	66.5	61.2			
(1. RPM)	125	49.3	53.2	55.6	57.1	59.1	60.6	61.9	63.6	65.1	66.0	67.3	65.1	58.5			
NFK (0. RAD/SEC)	160	50.2	54.1	56.8	58.3	60.1	61.6	62.3	64.1	65.3	66.2	66.2	62.2	56.2			
(1. RPM)	200	49.8	53.8	57.9	59.5	60.3	62.5	63.0	64.4	66.4	66.9	66.4	63.3	55.4			
NFD (0. RAD/SEC)	250	49.9	55.4	58.6	60.4	61.7	63.5	63.5	64.4	66.4	67.3	66.2	62.6	55.8			
(7500. RPM)	315	50.6	55.2	59.9	60.8	63.6	63.8	65.3	66.0	66.7	67.5	65.7	62.7	55.4			
AIRFLOW RATIO	400	52.5	57.9	62.5	63.1	64.9	65.4	66.2	66.6	67.0	66.5	65.9	63.7	56.2			
WFMW 6.81	500	51.3	58.0	61.6	63.3	65.1	66.1	66.1	68.0	67.9	66.6	64.9	62.6	55.5			
VEHICLE CELL41	630	51.9	57.8	61.0	61.9	64.5	66.5	67.0	68.9	68.7	66.4	64.3	63.3	55.2			
CONFIG NC40	800	48.9	55.2	58.2	61.7	64.1	66.1	66.3	68.4	69.7	67.1	65.5	63.8	56.4			
LOC C41 ANECH CH	1000	45.2	52.0	57.4	59.9	62.8	64.6	65.1	67.4	67.1	64.4	63.2	62.3	53.5			
DATE 05-28-76	1250	43.4	49.8	54.1	58.2	61.2	63.5	63.9	64.5	64.4	62.5	59.6	57.8	48.4			
RUN CONF10WFLWC	1600	39.6	47.7	52.2	56.4	60.1	60.7	61.6	63.0	62.7	59.9	55.6	53.0	42.9			
TAPE X00240	2000	35.1	44.4	49.0	53.3	57.4	59.0	60.0	60.0	59.0	56.0	51.0	47.7	35.9			
FAN TIP SPEED FT/SEC	2500	30.4	41.1	45.6	50.1	54.5	56.1	57.0	57.6	56.8	52.1	46.0	40.9	26.9			
	3150	22.6	33.5	39.4	44.2	49.7	50.4	51.6	52.0	51.2	45.7	38.8	31.1	13.8			
	4000	12.5	25.5	31.3	36.5	40.5	42.6	43.2	43.0	42.8	35.9	28.5	16.6				
	5000	7.9	21.2	28.0	33.1	37.8	38.7	39.5	39.6	37.8	29.8	21.8	10.1				
	6300	9.7	13.9	21.0	30.2	37.2	38.1	30.5	34.4	30.5	28.2	11.7					
	8000				6.3	10.7	12.6	10.5	11.6	6.3							
OVERALL CALCULATED	61.3	66.5	70.2	71.9	74.1	75.5	76.1	77.5	78.3	77.9	78.1	76.5	71.1				
PNDB	65.0	71.4	75.8	77.9	80.8	82.1	82.8	83.9	84.4	82.6	81.0	78.5	70.6				
	ANECHOIC JET NOISE TEST FACILITY RESULTS																
CONFIGURATION	1	TEST POINT			24	ACOUSTIC RANGE			731.5m(2400ft.) SIDELINE			SIZE			FULL-.33m ² (513in. ²)		

RDG. NO. G.	FULL SIZE SOUND PRESSURE LEVELS					ANGLES FROM INLET IN DEGREES (AND RADIAN)					PWL					
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.	150.			
50	(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)	(0.0)
63	76.8	80.1	80.1	82.2	84.0	84.4	76.0	87.7	90.6	94.4	99.4	102.3	102.6			147.3
80	79.5	80.9	82.4	82.9	84.3	85.4	85.4	82.7	89.2	92.7	96.5	102.7	103.9			149.5
100	80.3	82.3	83.3	85.1	86.5	87.3	79.0	91.4	93.0	98.8	104.3	106.2	104.7			151.2
125	81.1	83.4	84.4	86.4	87.5	88.4	80.0	92.6	95.1	98.4	104.1	106.5	104.8			151.3
160	83.2	85.7	87.4	87.5	88.3	89.7	81.3	94.2	96.2	99.5	103.6	104.8	103.4			150.5
200	82.7	85.0	88.3	88.3	88.4	89.0	81.4	94.3	97.0	99.4	102.5	101.6	100.4			149.6
250	83.6	86.6	87.7	89.2	89.8	91.6	82.0	94.4	97.7	99.7	101.3	100.5	97.5			148.8
315	84.2	87.4	89.7	90.0	91.3	92.2	83.6	95.7	98.0	99.5	100.4	99.4	96.6			149.0
400	86.8	90.3	92.8	92.1	93.0	94.1	84.2	96.4	99.6	99.7	100.6	100.5	99.1			150.0
500	89.3	92.6	93.3	92.9	96.2	96.8	87.0	99.1	100.3	100.7	100.9	101.0	102.3			151.5
630	98.1	100.2	97.7	98.5	103.8	105.2	94.5	107.0	104.7	106.5	105.0	107.9	111.7			158.3
800	86.8	89.8	92.6	96.1	98.0	97.3	88.0	101.6	100.6	99.9	99.9	102.3	104.8			152.4
1000	82.7	89.0	90.1	92.3	94.6	95.5	87.1	97.8	99.3	98.7	99.3	99.5	99.8			150.3
1250	82.9	89.0	90.1	92.3	94.6	95.5	87.1	97.8	99.3	98.7	99.3	99.5	99.8			149.5
1600	80.6	87.7	89.3	91.5	94.6	95.2	85.8	97.8	98.5	97.9	98.3	98.7	99.4			149.5
2000	78.9	86.4	88.0	90.0	92.8	93.9	85.2	96.7	97.2	96.4	96.6	96.6	98.9			148.2
2500	77.1	85.1	86.3	89.5	92.0	92.6	84.6	96.0	96.3	94.8	94.9	95.4	96.9			147.2
3150	75.2	82.7	84.1	86.7	91.2	91.1	83.1	94.0	95.4	93.2	93.3	93.4	94.3			145.8
4000	72.4	80.5	81.4	84.4	87.6	88.4	79.6	91.0	92.7	90.6	92.1	89.1	90.2			143.3
5000	71.4	80.3	82.1	85.8	87.0	87.7	78.9	91.2	91.8	88.7	89.9	88.7	88.9			142.7
6300	83.3	79.9	82.1	85.8	90.6	90.7	77.1	92.0	91.4	93.0	89.1	88.1	89.1			147.2
8000	69.8	73.7	77.5	79.3	80.4	81.7	72.4	85.3	85.6	85.1	84.7	81.1	82.2			138.4
10000	62.5	71.6	75.8	76.7	76.4	77.8	69.7	82.0	82.0	80.9	81.5	76.3	78.1			136.1
12500	64.8	73.4	77.6	76.7	75.9	78.2	71.4	81.8	81.6	81.7	81.7	75.0	77.7			138.1
OVERALL CALCULATED	100.2	103.0	103.2	104.4	107.6	108.6	98.8	111.1	111.3	112.5	114.1	115.4	116.1			163.9
PND8	109.0	112.5	112.7	114.4	117.6	118.6	108.8	121.1	121.5	121.8	122.1	123.0	124.6			

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION I TEST POINT 25 ACoustic RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

NO EGA SIDELINE 2400. FT. (731.52 M)	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)												
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
FREQ. (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.)	48.7	53.5	54.6	57.4	59.6	60.1	51.6	62.9	65.1	67.8	71.2	71.9	68.7
63	49.0	54.2	56.8	58.1	59.9	61.1	51.9	64.4	67.1	69.8	74.4	73.3	69.9
80	51.1	55.5	57.1	58.9	60.1	62.1	53.6	65.4	67.4	72.1	75.9	75.6	70.5
100	51.9	55.5	57.6	60.2	61.9	62.9	54.4	66.4	68.6	71.6	75.7	75.8	70.4
125	52.5	56.4	58.6	61.3	62.9	63.9	55.4	67.6	69.3	71.5	75.1	73.9	68.7
160	54.4	58.6	61.5	62.3	63.6	65.1	56.6	69.1	70.9	72.4	73.7	70.5	65.5
200	53.8	57.8	62.2	63.0	63.5	65.3	56.5	69.0	70.3	72.1	72.4	69.1	62.2
250	54.4	59.2	61.4	63.7	64.7	66.7	57.0	68.9	71.4	72.3	71.2	67.6	60.8
315	54.6	59.7	63.2	64.3	66.1	67.1	58.3	70.0	71.4	71.8	70.9	67.7	60.2
400	56.8	62.2	66.0	66.1	67.4	68.7	58.7	70.4	72.7	71.5	70.6	67.4	61.7
500	58.8	64.0	66.1	66.5	70.3	71.1	61.1	72.8	73.1	72.1	70.4	67.6	64.0
630	66.9	71.0	70.0	71.6	77.5	79.0	68.2	80.1	77.0	77.4	73.8	73.5	72.0
800	54.9	59.9	64.2	68.7	71.1	70.6	61.1	74.2	72.2	70.1	67.8	66.8	63.4
1000	49.5	58.2	62.9	64.7	66.6	68.4	58.6	69.7	70.1	67.9	66.2	62.6	56.3
1250	48.4	57.1	59.9	63.2	66.2	67.2	58.7	68.7	69.1	67.3	65.1	61.3	55.4
1600	44.1	54.2	57.7	61.1	64.9	65.7	56.1	67.4	66.9	64.4	61.9	57.5	49.6
2000	40.1	50.9	54.7	58.0	61.6	63.0	54.0	64.8	64.0	61.0	57.8	52.4	44.6
2500	34.9	46.9	50.6	55.3	58.7	59.6	51.3	61.8	60.6	56.6	52.8	46.9	36.2
3150	27.6	40.0	44.4	48.9	54.5	54.7	46.3	56.2	55.7	50.5	45.8	37.9	23.3
4000	16.8	31.0	35.8	41.2	45.7	46.9	37.7	47.8	47.1	41.1	36.5	23.1	3.7
5000	11.1	27.0	33.0	38.1	42.1	43.2	34.0	44.9	42.8	35.3	29.6	16.6	
6300	9.2	15.1	23.0	30.2	37.0	37.6	23.5	36.4	32.3	28.2	15.0		
8000			3.0	9.5	13.2	15.4	5.3	15.6	11.0	2.7			
10000													
OVERALL CALCULATED	69.2	73.8	75.3	77.1	80.7	81.9	71.9	83.8	83.3	83.8	84.4	83.2	78.9
PND#	74.8	80.4	81.7	84.0	88.1	89.4	79.3	91.2	90.0	89.7	87.9	85.9	81.7

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 25 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (S9. DEG. F. 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 18.5

RDG. NO.	NO EGA	ANGLES FROM INLET IN DEGREES (AND RADIAN)										PWL		
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.	150.
100	67.1	76.4	74.4	75.5	76.3	76.7	76.8	77.5	78.2	81.2	85.2	83.4	85.9	121.6
125	67.6	71.6	72.6	74.4	75.2	76.9	76.7	77.9	76.6	77.2	84.6	85.6	85.4	121.1
160	68.6	71.2	72.9	73.5	74.5	74.4	75.0	76.0	78.2	83.0	86.4	87.1	88.4	122.7
200	70.3	71.8	73.3	75.1	75.2	75.5	76.7	79.6	82.3	84.6	88.8	92.3	93.0	126.3
250	70.3	73.1	74.3	74.6	76.2	77.8	79.5	80.4	82.3	86.9	92.1	93.8	93.8	128.0
315	72.4	75.4	75.4	77.2	79.1	79.4	80.6	82.7	85.7	89.3	94.5	97.4	97.2	131.0
400	73.4	75.5	77.7	78.0	79.3	81.0	81.8	84.5	87.2	91.5	96.5	98.4	98.2	132.4
500	74.8	75.8	77.8	78.6	79.7	81.5	82.7	85.3	88.0	93.1	97.8	100.2	98.8	133.8
630	75.4	77.4	78.6	79.7	81.0	82.4	84.0	86.4	88.9	92.7	97.4	100.8	98.6	133.9
800	76.1	78.7	79.7	80.9	82.5	83.9	86.0	87.7	90.2	93.2	97.2	98.6	96.4	133.1
1000	77.7	80.2	81.7	82.5	83.6	85.0	86.9	88.8	90.7	93.3	96.3	95.2	93.5	132.1
1250	77.5	79.8	82.6	83.1	83.7	85.8	87.2	89.9	91.8	93.9	95.1	95.0	91.3	132.0
1600	78.4	81.7	82.9	83.2	84.6	86.7	87.6	89.7	92.4	94.3	95.2	94.6	91.4	132.3
2000	78.9	82.7	84.7	84.8	85.8	87.2	88.8	90.8	93.2	94.3	94.3	94.9	91.5	132.7
2500	81.5	85.1	86.8	86.4	88.0	88.8	89.7	91.1	94.1	94.4	95.1	96.3	93.3	133.6
3150	83.5	88.0	87.8	87.8	90.4	91.0	92.2	93.1	94.3	94.9	95.8	97.3	96.5	135.0
4000	91.5	96.6	93.8	92.4	97.4	99.1	99.4	99.9	94.8	98.9	97.4	103.8	104.8	141.0
5000	79.9	84.2	86.0	88.5	89.8	90.4	91.6	95.0	95.2	94.6	95.8	97.2	97.9	135.4
6300	78.7	83.8	85.3	86.1	88.2	89.8	90.7	92.3	94.8	93.7	94.9	96.5	95.8	134.4
8000	77.5	82.8	83.1	85.6	88.2	89.8	90.7	92.1	93.6	93.5	94.4	96.3	96.6	134.3
10000	75.9	81.8	82.6	84.8	87.9	88.0	89.4	91.8	92.8	92.5	92.2	95.0	96.0	133.6
12500	73.3	80.3	80.4	82.9	85.7	87.0	88.6	89.9	90.7	90.1	90.0	92.3	92.5	131.9
16000	71.1	78.1	78.1	81.0	84.5	85.4	87.1	89.0	89.6	87.8	87.9	89.4	90.9	131.0
20000	67.6	74.9	75.5	77.9	81.9	82.5	85.3	85.9	87.8	85.6	85.5	86.6	87.2	129.5
25000	64.2	72.0	72.1	74.4	77.9	78.6	80.4	81.4	83.6	81.8	82.6	81.6	82.4	126.9
31500	61.2	69.8	70.7	72.2	75.7	75.9	77.4	79.5	80.5	77.6	78.8	79.2	79.4	126.1
40000	69.6	66.9	68.6	72.8	77.4	77.7	73.4	78.2	78.4	79.7	75.5	76.6	76.7	128.6
50000	54.4	57.8	60.1	62.4	63.2	64.8	64.7	67.9	68.4	67.9	66.5	66.4	66.3	121.9
63000	40.6	50.1	53.2	54.1	53.4	55.6	55.7	59.5	60.0	58.6	57.9	57.8	57.3	119.4
80000	35.0	45.1	47.7	46.9	46.1	48.0	47.6	50.2	51.8	50.3	50.1	46.9	48.9	120.6
OVERALL MEASURED														
OVERALL CALCULATED														
PWSB 94.1 98.7 97.9 98.1 101.1 102.5 103.3 104.7 105.1 106.5 108.3 110.6 110.1														
119.5 112.9 112.6 116.1 117.5 118.2 119.3 117.9 120.4 120.9 124.6 124.6														

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 26 | ACQUSTIC RANGE 12.2m(40ft.) ARC | SIZE MODEL-71.3cm²(11.1in²)

PROC. DATE - MONTH 8 DAY 24 HR. 18.9
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)					PROC. DATE - MONTH 8 DAY 24 HR. 18.9							
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
NO EGA	(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)
RDG. NO.	77.6	80.6	82.9	84.3	85.8	87.0	88.7	90.5	92.4	94.4	96.7	99.6	102.4
RADIAL 150. FT.	80.0	80.7	82.9	83.2	84.5	86.2	87.0	89.7	92.4	96.7	101.7	103.6	103.4
(46. M)	80.0	81.0	83.0	83.8	84.9	86.2	87.6	89.9	93.2	98.3	103.0	105.4	104.0
VEHICLE CELL41	81.3	83.9	84.9	86.1	87.7	89.1	91.2	92.9	95.4	98.4	102.6	106.0	103.8
CONFIG NC40	82.9	85.4	86.9	87.7	88.8	90.2	92.1	94.0	95.9	98.5	101.5	100.4	101.6
LOC C41 ANECH CH	82.7	85.0	87.8	88.3	88.9	91.0	92.4	95.1	97.0	99.1	100.3	100.2	96.5
DATE 05-28-76	84.2	87.9	90.0	90.0	91.1	92.4	94.1	96.0	97.7	99.5	100.4	99.9	96.6
RUN CONFLOW/FLWC	86.8	90.3	92.1	91.6	93.2	94.1	95.0	96.4	98.5	99.5	100.0	100.2	95.7
TAPE X00260	88.8	93.3	93.1	93.1	95.7	96.3	97.5	98.4	99.3	99.7	100.4	101.5	98.6
BAR 29.3 HG	96.9	101.9	99.2	97.7	102.8	104.4	104.8	105.2	100.2	104.3	102.7	109.1	110.2
(99111. N/M2)	85.3	89.6	91.3	93.9	95.2	95.8	96.9	100.4	100.6	99.9	101.1	102.5	103.3
TAMP 63. DEG F	84.2	89.2	90.8	91.6	93.6	95.2	96.1	97.8	100.3	99.1	100.3	102.0	101.2
(290. DEG K)	83.1	88.5	88.8	91.3	93.9	95.5	96.4	97.8	99.3	99.2	100.1	102.0	102.2
TWET 60. DEG F	81.8	87.7	88.5	90.7	93.8	95.9	95.3	97.7	98.7	98.4	98.1	100.9	101.9
(289. DEG K)	79.6	86.6	86.7	89.2	92.0	93.3	94.9	96.2	97.0	96.4	96.3	98.6	98.8
HACT12.37 GM/M3	78.0	85.1	85.0	87.9	91.5	92.3	94.0	95.9	96.5	94.7	94.9	96.4	97.8
(.01237 KG/M3)	75.3	82.6	83.3	85.6	89.6	90.2	93.0	93.7	95.5	93.3	93.2	94.3	95.0
FREQ. SHIFT	73.1	80.8	81.0	83.3	86.8	87.5	89.3	90.3	92.5	90.7	91.5	90.5	91.3
JET	72.1	80.6	81.6	83.0	86.5	86.7	88.2	90.3	91.4	88.5	89.7	90.0	90.2
DIAMETER RATIO	63.0	83.1	80.4	82.1	86.3	90.9	91.2	86.9	91.7	91.9	93.2	89.0	90.1
DF/DN 6.81	71.3	74.7	77.0	79.2	80.1	81.7	81.6	84.8	85.3	84.8	83.4	83.3	83.2
OVERALL CALCULATED	62.5	72.0	75.1	76.1	75.3	77.5	77.6	81.4	81.9	80.5	79.8	79.7	79.2
	64.5	74.5	77.2	76.3	75.5	77.4	77.0	79.6	81.2	79.7	79.5	76.4	78.4
	99.5	104.1	103.3	103.6	106.7	108.0	108.9	110.3	110.7	111.9	113.4	115.8	115.3
FNDB	106.6	113.4	112.9	113.4	116.8	118.1	118.9	120.4	121.4	121.1	121.7	124.1	124.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT Z6 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m(513in.)

	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)												
	ANGLES FROM INLET IN DEGREES (AND RADIANs)												
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
FREQ.	(0.75)	(0.37)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
	(0.)	(0.)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)
NO EGA	49.4	54.0	55.1	57.6	59.9	60.4	61.4	63.1	65.4	67.8	71.5	72.1	68.5
SIDELINE 2400. FT. (731.52 M)	50.4	54.0	57.3	58.4	60.1	61.9	62.6	64.9	66.8	70.1	73.4	73.1	69.4
MFA (0. RAD/SEC)	51.0	54.2	57.4	58.9	60.4	62.6	63.4	65.6	67.6	71.6	74.7	74.8	69.8
MFK (0. RAD/SEC)	52.1	55.8	59.1	59.9	61.7	63.2	64.7	66.7	68.4	71.1	74.2	75.3	69.4
MFD (785. RAD/SEC)	52.8	56.9	59.1	61.1	63.1	64.6	66.6	67.8	69.6	71.5	73.8	72.9	67.0
AIRFLOW RATIO W/F/M 6.81	54.2	58.4	61.0	62.6	64.1	65.6	67.3	68.8	70.0	71.4	72.7	69.2	63.7
	53.8	57.8	61.7	63.0	64.0	66.3	67.5	69.8	71.0	71.9	71.4	68.8	61.2
	54.4	59.4	61.9	62.9	64.7	67.0	67.7	69.4	71.4	72.0	71.2	68.1	60.3
	54.6	60.2	63.4	64.3	65.8	67.3	68.8	70.3	71.9	71.8	70.4	67.9	60.2
	56.8	62.2	65.2	65.6	67.7	68.7	69.4	70.4	72.5	71.5	70.4	68.7	61.2
	58.3	64.8	65.9	66.8	69.8	70.6	71.6	72.0	72.4	71.6	70.6	69.1	63.5
	65.7	72.8	71.5	70.9	76.5	78.3	78.5	78.4	72.5	75.2	71.5	74.8	70.5
	53.1	59.7	62.9	66.4	68.3	69.1	70.1	72.9	72.2	70.1	69.0	67.0	61.9
VEHICLE CELL41	51.0	58.5	61.6	63.4	66.1	67.9	68.6	69.6	71.1	68.4	67.1	65.0	57.8
CONFIG NC40	48.6	56.6	58.6	62.2	65.4	67.2	67.9	68.7	69.1	68.3	65.5	63.3	56.1
LOC C41 ANECH CH	45.3	54.1	56.9	60.4	64.1	64.4	65.6	67.4	67.2	64.9	61.6	59.7	52.1
DATE 05-28-76	40.8	51.1	53.4	57.3	60.8	62.4	63.7	64.3	63.7	60.9	57.5	54.4	44.6
RUN CONF1LOWFLWC	35.9	46.8	49.3	53.8	58.2	59.3	60.7	61.8	60.8	56.5	52.7	47.8	37.1
TAPE A00260	27.8	39.9	43.6	47.9	52.9	53.8	56.3	55.9	55.9	50.6	45.7	38.8	24.0
FAN TIP SPEED FT/SEC	17.4	31.4	35.4	40.1	44.9	46.0	47.4	47.1	46.9	41.2	35.9	24.5	4.9
	11.8	27.3	32.6	36.7	41.7	42.3	43.4	44.0	42.4	35.1	29.4	17.9	
	9.0	15.6	23.0	30.8	37.3	38.1	33.3	36.2	32.8	28.4	15.0	0.2	
			2.4	9.5	13.0	15.4	14.5	15.1	10.7	2.4			
OVERALL CALCULATED	68.5	74.9	75.5	76.4	79.9	81.4	82.1	83.0	85.6	83.1	83.6	83.1	77.9
PND8	74.1	81.4	82.1	83.2	87.4	88.9	89.6	90.3	88.6	88.7	86.8	86.7	80.8

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 26 | ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE | SIZE FULL-.33m²(513in.²)

FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	PWL
50	63.3	87.1	86.6	89.2	91.0	91.9	93.0	94.7	98.6	104.2	108.6	111.1	110.6	156.2
63	85.4	87.7	89.2	89.7	91.0	92.7	93.8	96.4	100.7	107.2	112.2	113.1	111.9	158.6
80	86.5	88.0	89.2	90.5	91.9	94.0	95.6	98.0	102.2	110.1	114.3	114.9	112.7	162.2
100	88.1	90.1	90.1	92.1	93.5	94.8	97.5	99.6	104.6	111.9	116.4	116.3	113.8	164.3
125	90.1	92.4	91.9	93.9	94.7	96.4	98.5	101.3	106.1	113.9	118.6	117.3	115.4	163.4
160	95.2	96.4	97.7	97.0	97.3	98.4	99.8	102.2	105.9	113.5	118.7	117.6	116.4	162.2
200	92.0	94.5	96.5	97.6	98.4	100.3	100.7	103.6	106.5	112.9	117.1	117.5	115.3	160.9
250	92.4	94.6	94.2	95.4	97.3	99.1	100.5	103.2	107.4	112.5	115.7	115.6	113.6	160.0
315	93.2	94.9	96.7	96.5	98.1	99.4	101.1	104.0	107.0	110.8	114.5	113.4	111.7	159.9
400	92.3	94.6	96.1	97.9	99.5	99.8	101.5	104.1	107.8	109.7	112.9	112.5	110.1	158.8
500	92.5	94.8	96.6	97.9	99.2	100.6	102.0	105.1	108.1	109.3	112.6	111.3	109.6	158.2
630	91.9	94.4	96.7	98.5	99.6	100.4	102.1	104.7	106.9	109.3	111.2	109.4	105.9	158.3
800	91.8	94.6	96.8	98.4	99.2	100.8	102.2	105.1	106.6	107.9	110.1	108.5	105.3	157.7
1000	90.4	94.2	96.3	97.8	100.4	101.7	103.1	105.3	106.3	107.9	110.1	108.0	106.0	156.6
1250	90.1	93.7	95.3	98.3	100.1	102.0	103.4	106.1	106.8	107.2	108.6	108.5	106.7	156.1
1600	89.3	94.2	95.5	97.2	100.1	100.7	102.3	105.5	106.0	105.9	108.3	107.9	107.2	154.6
2000	87.3	92.6	94.7	96.9	99.2	100.6	101.6	103.7	104.0	104.7	107.3	106.9	106.9	152.3
2500	86.8	92.3	94.0	96.7	99.5	100.1	101.0	103.0	104.0	103.0	105.9	106.4	106.3	152.1
3150	84.4	89.7	92.1	94.4	98.4	98.3	100.3	101.0	102.9	101.9	104.3	103.4	103.8	151.9
4000	82.5	89.2	89.6	92.9	95.6	95.8	97.1	98.4	100.4	99.0	102.8	99.3	100.4	148.9
5000	81.6	87.7	89.7	93.1	95.6	95.6	96.6	98.4	100.0	97.6	101.8	100.1	100.6	148.3
6300	84.5	86.3	89.2	92.2	94.3	95.1	94.8	97.9	98.0	97.7	102.2	98.3	98.8	151.5
8000	76.5	81.7	85.9	88.4	88.3	89.6	90.3	94.2	94.7	94.5	98.8	94.3	94.8	173.3
10000	74.0	79.0	83.6	85.6	86.7	87.6	87.6	92.2	92.7	92.6	97.8	91.7	92.2	
12500	76.4	81.3	86.2	85.9	85.3	87.4	87.8	92.2	93.5	94.1	100.4	91.7	93.9	
OVERALL CALCULATED	103.6	106.4	108.0	109.5	111.3	112.5	113.8	116.4	118.7	122.7	126.6	126.2	124.4	
PWDB	112.8	117.1	118.8	121.0	123.3	124.1	125.3	127.5	129.2	130.3	133.6	132.9	132.1	

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 27 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

NO EGA (731.52 M)	SIDE LINE 2400. FT.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)																							
		40.			50.			60.			70.			80.											
FREQ. (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.)		90.			100.			110.			120.			130.			140.			150.			160.		
50	55.2	60.5	61.1	64.4	66.6	67.6	68.6	69.9	73.1	77.6	80.5	80.6	80.6	76.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
63	57.1	61.0	63.6	64.9	66.6	68.4	69.4	71.1	73.1	76.6	83.3	85.9	86.3	78.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
80	58.1	61.2	63.6	65.6	67.4	69.6	71.1	73.1	74.7	78.9	85.1	87.9	85.5	79.4	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
100	59.0	63.3	64.4	67.2	68.9	70.4	72.9	76.1	80.3	87.0	90.1	86.4	80.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
125	61.5	65.4	66.1	68.8	70.1	71.9	73.9	75.1	77.1	80.0	86.4	90.0	86.5	81.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
160	66.4	69.4	71.8	72.6	73.8	75.1	77.1	80.0	80.5	85.6	88.1	86.1	79.9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
200	63.0	67.3	70.5	72.3	73.5	75.5	77.7	81.1	85.0	86.5	83.8	77.8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
250	63.1	67.2	69.9	72.2	74.3	75.5	77.7	81.1	85.0	84.9	81.2	75.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
315	63.6	67.2	70.2	70.8	72.8	74.3	75.8	78.3	80.4	83.0	84.9	81.2	75.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
NFD	62.3	66.4	69.2	71.9	73.9	74.4	75.9	78.1	81.0	81.5	82.9	79.7	72.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
(785. RAD/SEC)	62.0	66.3	69.4	71.5	73.3	75.1	76.1	78.8	80.9	81.4	82.1	77.8	71.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
AIRFLW RATIO	60.7	65.3	69.0	71.6	73.2	74.3	75.7	77.9	79.2	80.2	80.0	75.0	66.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
WFA/M 6.81	59.6	64.7	68.5	70.9	72.3	74.1	75.3	77.7	78.2	78.1	78.0	73.0	63.9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
800	57.2	63.5	67.1	69.7	72.8	74.4	75.6	77.2	77.1	77.1	76.9	71.1	62.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
VEHICLE CELL41	55.6	61.8	65.1	69.2	71.7	73.7	74.9	77.0	76.6	75.3	74.1	69.8	60.6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
CONFIG NC40	52.8	60.6	63.9	66.9	70.4	71.2	72.6	75.1	74.4	72.4	71.8	66.7	57.4	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOC C41 ANECH CH	48.6	57.2	61.4	65.0	68.1	69.7	70.5	71.8	70.7	69.2	68.5	62.7	52.6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
DATE 05-26-76	44.7	54.1	58.3	62.5	66.2	67.1	67.8	68.8	68.3	64.8	63.7	57.8	45.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
RUN CONFLOWFLWC	36.8	47.0	52.4	56.7	61.7	61.9	63.6	63.2	63.2	59.2	56.7	47.8	32.8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
TAPE X00270	27.0	39.7	44.0	49.7	53.7	54.3	55.2	54.8	49.6	47.2	47.2	33.3	13.9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
FAN TIP SPEED	21.3	34.4	40.7	46.8	50.8	51.2	51.7	52.1	51.0	44.2	41.5	28.0	5.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
FT/SEC	10.4	21.5	30.1	36.7	40.6	42.0	41.1	42.3	38.9	32.9	28.1	8.3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
8000	11.4	18.7	21.1	23.3	23.2	24.5	20.2	12.1	3.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
10000	2.0	1.7	2.0	2.0	1.7	2.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
12500	73.3	77.4	80.0	82.1	84.0	85.5	86.8	88.9	91.1	94.9	97.3	94.5	88.8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
OVERALL CALCULATED	76.9	82.3	85.6	88.5	91.3	92.7	93.8	95.9	96.8	98.5	100.0	96.6	89.8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
PND8																									

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 27 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 18.5
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
ANGLES FROM INLET IN DEGREES (AND RADIANs)
90. 109. 110. 120. 130. 140. 150. 160.
10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.
D. 0. 0. 0. 0.
(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. . .)
S. P.L

RDG. NO.	NO EGA	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
100	63	73.9	83.4	81.7	82.7	84.0	84.9	84.5	85.5	86.4	88.2	92.7	91.4	93.9
125	80	73.8	78.4	79.9	81.7	83.5	84.4	84.7	85.9	84.9	84.7	92.4	93.6	93.9
160	CELL 41	74.9	77.4	79.9	80.5	81.8	81.7	82.3	83.5	85.9	91.2	94.4	95.4	97.2
200	CONFIG MC40	76.8	78.0	79.6	82.1	82.2	83.0	83.7	86.1	89.8	93.4	96.8	100.8	101.8
250	LOC C41 ANECH CH	77.1	79.8	80.8	81.1	83.0	84.3	86.7	87.9	90.6	96.2	100.9	102.0	102.6
315	DATE 05-28-76	78.7	82.2	81.4	84.0	86.9	88.1	88.1	89.5	93.7	99.0	103.5	105.9	105.7
400	RUN CONF1LOWFLWC	80.7	82.5	84.2	84.7	86.1	87.7	89.1	91.7	96.0	102.3	107.0	107.7	106.2
500	BAR 29.3 HG	81.6	82.8	84.5	85.6	86.9	89.3	90.9	93.3	97.3	105.1	109.3	109.7	107.6
630	(99111. N/M2)	83.1	84.9	85.1	87.2	88.8	90.1	92.5	95.2	99.6	107.0	110.9	111.6	109.1
800	TAMB 63. DEG F	85.4	86.7	88.9	88.4	90.0	91.7	93.5	96.4	100.7	107.7	112.7	112.9	111.4
1000	(290. DEG K)	89.2	90.7	91.2	91.0	92.1	93.2	94.9	97.3	100.7	107.3	111.5	111.4	111.0
1250	TWET 59. DEG F	86.5	88.3	90.6	91.1	92.4	94.1	95.4	98.4	101.8	106.4	110.1	110.8	109.3
1600	(238. DEG K)	87.7	89.2	90.7	90.8	92.8	94.2	95.6	98.5	101.9	106.3	108.5	109.1	107.9
2000	HACT11.64 GM/M3	86.8	89.1	90.6	91.9	93.7	94.6	96.7	99.1	102.6	104.2	105.6	106.8	104.3
2500	(.01164 KG/M3)	86.7	89.3	91.1	92.3	94.2	94.8	96.7	99.8	102.3	104.4	105.6	106.0	103.8
3150	FREQ. SHIFT	85.5	87.8	90.3	91.9	92.9	94.1	96.4	99.6	101.6	103.2	104.4	103.8	101.6
4000	JET O	84.4	87.9	90.2	92.0	93.1	94.9	96.8	99.8	101.7	103.1	104.0	103.2	100.4
5000	DIAMETER RATIO	84.0	87.8	89.3	91.3	93.4	95.5	97.4	99.3	101.3	101.9	103.9	103.0	100.3
6300	DF/DH 1	83.2	86.3	88.4	91.2	93.5	94.8	97.2	99.7	100.4	101.5	103.5	102.3	101.8
8000		81.7	86.5	87.6	90.1	92.9	94.0	95.7	98.6	99.6	100.5	102.2	102.0	101.3
10000		79.8	84.6	87.0	89.2	91.7	93.1	94.9	97.2	98.0	98.2	100.1	100.1	100.6
12500		77.7	83.2	84.6	87.8	90.9	91.7	93.7	95.6	97.4	96.7	98.0	99.3	98.7
16000		74.4	80.2	82.1	84.8	88.5	89.6	91.6	93.3	95.2	94.2	96.6	96.0	96.6
20000		71.3	77.6	79.0	81.6	84.8	85.5	87.3	89.3	91.6	90.5	94.5	91.8	91.8
25000		68.4	75.2	78.2	80.4	83.1	83.8	84.6	87.7	88.7	87.6	91.1	90.1	90.3
31500		70.1	70.7	74.1	77.4	79.9	80.7	80.2	84.0	85.2	84.6	87.6	85.7	85.7
40000		62.9	67.7	69.5	70.3	71.9	72.9	72.9	77.0	77.5	77.3	82.2	78.1	78.1
50000		47.5	55.3	61.2	62.4	61.9	64.0	65.2	69.2	71.0	70.9	75.4	71.3	71.5
63000		39.5	48.2	56.1	55.5	54.6	57.5	57.9	61.0	63.9	64.0	70.8	63.8	65.0
80000	OVERALL MEASURED	97.0	100.1	101.6	103.0	104.8	106.2	108.0	110.7	113.2	117.0	120.3	120.7	119.3
	OVERALL CALCULATED	110.2	112.8	114.4	115.7	117.4	118.5	120.4	123.2	125.6	126.6	130.8	131.2	129.5

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
1 28 12.2m(40ft.) ARC MODEL-71.3cm²(11. lin²)

RDG. NO.	HO EGA	RADIAL 150. FT.	(46. M)	FULL SIZE SOUND PRESSURE LEVELS					SCALED FROM MODEL DATA					ANGLES FROM INLET IN DEGREES (AND RADIAN)					PWL
				40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	
50	83.8	87.4	86.6	89.2	91.3	92.1	93.3	94.7	98.9	104.2	108.6	111.1	110.9	156.3					
63	85.9	87.7	89.4	89.9	91.3	92.9	94.3	96.9	101.2	107.5	112.2	112.9	111.4	153.5					
80	87.0	88.0	89.7	90.8	92.1	94.5	96.1	98.5	102.5	110.3	114.5	114.9	113.0	160.7					
100	88.3	90.1	90.3	92.4	94.0	95.3	97.7	100.4	104.8	112.2	116.1	116.8	114.3	162.4					
125	90.6	91.9	92.1	93.6	95.2	96.9	98.7	101.6	105.9	112.9	117.9	118.1	116.6	163.9					
160	94.4	95.9	96.4	96.2	97.3	98.4	100.1	102.5	105.9	112.5	116.7	116.6	116.2	163.1					
200	91.7	93.5	95.8	96.3	97.7	99.3	100.7	103.6	107.0	111.6	115.3	116.0	114.5	162.2					
250	91.9	94.1	94.2	95.4	97.3	99.6	100.8	103.7	107.2	111.5	113.7	114.4	113.1	161.1					
315	92.9	94.4	95.8	97.1	99.0	99.8	102.0	104.4	107.8	109.4	110.9	112.0	109.6	160.2					
400	92.0	94.6	96.4	97.6	99.5	100.1	102.0	105.1	107.6	109.7	110.9	111.3	109.1	159.4					
630	90.9	93.2	95.7	97.2	98.3	99.4	101.8	105.0	106.9	108.5	109.7	109.1	106.9	156.2					
800	89.6	93.3	95.6	97.4	98.5	100.3	102.2	105.1	107.1	108.4	109.4	108.5	103.8	158.1					
1000	89.4	93.3	94.8	96.8	98.9	101.0	102.9	104.8	106.8	107.4	109.3	108.5	106.3	158.0					
1250	88.9	92.0	94.1	96.8	99.1	100.5	102.9	105.3	106.1	107.2	109.1	108.0	107.5	157.9					
1600	87.6	92.4	93.5	96.0	98.8	99.9	101.6	104.5	105.5	106.4	108.1	107.9	107.2	157.3					
2000	86.1	90.9	93.3	95.5	98.0	99.4	101.2	103.5	104.3	104.5	106.3	106.4	106.9	156.2					
2500	84.6	90.1	91.6	94.8	97.8	98.6	100.6	102.5	104.3	103.6	104.9	106.2	105.6	155.6					
3150	82.2	88.0	89.9	92.5	96.5	97.3	99.3	101.0	102.9	102.0	104.3	103.7	104.3	154.4					
4000	80.2	86.5	87.9	90.7	93.7	94.4	96.2	98.2	100.4	99.4	103.4	100.7	100.7	152.3					
5000	79.2	86.1	89.1	91.2	94.0	94.7	95.4	98.5	99.6	98.5	101.9	101.0	101.2	152.0					
6300	83.6	84.2	87.6	90.9	93.4	94.2	93.7	97.5	98.7	98.1	101.1	99.2	99.2	151.6					
8000	73.1	79.8	84.6	86.4	87.2	88.8	89.7	93.9	94.4	94.2	99.0	95.0	95.0	148.8					
10000	69.4	77.2	83.2	84.3	83.8	86.0	87.1	91.1	92.9	92.9	97.4	93.2	93.4	148.1					
12500	68.9	77.6	85.6	84.9	84.1	86.9	87.3	90.5	93.4	93.4	100.2	93.2	94.4	151.2					
OVERALL CALCULATED	102.9	105.5	107.0	108.5	110.5	111.8	113.7	116.3	118.8	122.3	125.5	125.9	124.5	172.8					
PNOB	111.4	115.5	117.3	119.6	122.0	123.1	124.9	127.3	129.3	130.4	132.8	132.9	132.0						

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 28 ACUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in.²) SIZE

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 18.9

NO EGA SIDELINE 2400. FT. (731.52 M)	FREQ.	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)													
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
NFA (0. RAD/SEC)	50	55.7	60.8	61.1	64.4	66.9	67.9	68.9	69.9	72.1	75.6	80.8	83.9	82.3	77.4
NFK (1. RPM)	63	57.6	61.0	63.8	65.1	66.9	68.6	69.9	72.1	75.6	80.8	83.9	82.3	77.4	78.8
NFD (0. RAD/SEC)	80	56.6	61.2	64.1	65.9	67.6	70.1	71.6	73.6	76.9	83.6	86.2	84.3	78.8	79.9
NFE (1. RPM)	100	59.9	63.3	64.6	67.4	69.4	70.9	73.2	75.4	79.1	85.3	87.7	86.0	82.0	81.2
NFF (0. RAD/SEC)	125	62.0	64.9	66.3	68.6	70.6	72.4	74.1	76.6	80.1	86.0	89.3	87.1	82.0	85.5
NFG (1. RPM)	160	65.7	68.9	70.5	71.1	72.8	74.5	75.8	78.3	81.0	84.4	86.4	84.6	79.2	85.4
NFH (0. RAD/SEC)	200	62.8	66.3	69.7	71.0	72.8	74.8	75.7	78.2	80.9	84.0	84.5	82.6	77.3	82.4
NFI (1. RPM)	250	62.6	66.7	69.4	70.3	72.8	74.3	76.6	79.0	80.9	82.5	82.4	81.2	74.9	81.2
NFJ (0. RAD/SEC)	315	63.4	66.7	69.4	71.1	73.4	74.4	76.4	78.4	81.0	81.3	80.9	79.2	72.2	72.2
NFK (785. RAD/SEC)	400	62.0	66.2	69.0	71.3	73.6	74.4	76.1	78.8	80.4	81.1	80.4	77.8	70.7	70.7
NFL (785. RAD/SEC)	500	61.5	66.0	69.1	71.3	73.6	74.3	75.5	78.1	79.2	79.4	78.5	74.8	67.2	67.2
NFM (785. RAD/SEC)	630	59.7	64.0	68.0	70.4	72.0	73.6	75.3	77.7	78.7	78.6	77.3	73.0	64.4	64.4
NFN (785. RAD/SEC)	800	57.7	63.4	67.2	69.9	71.6	73.6	75.3	77.6	77.6	76.6	76.2	71.6	62.8	62.8
NFO (785. RAD/SEC)	1000	56.2	62.5	65.6	68.7	71.3	73.6	75.3	76.7	75.9	75.3	74.6	69.3	61.4	61.4
NFP (785. RAD/SEC)	1250	54.4	60.1	63.9	67.7	70.7	72.3	74.4	74.1	73.9	72.9	71.6	66.7	57.4	57.4
NFQ (785. RAD/SEC)	1600	51.1	58.9	61.9	65.6	69.1	70.5	71.9	71.9	71.0	69.0	67.5	62.2	52.6	52.6
NFR (785. RAD/SEC)	2000	47.3	55.4	58.0	63.6	66.9	68.5	70.0	71.6	71.0	69.0	67.5	62.2	52.6	52.6
NFS (785. RAD/SEC)	2500	42.5	51.9	55.8	60.6	64.5	65.6	67.3	68.3	68.6	65.3	62.8	57.6	45.0	45.0
NFT (785. RAD/SEC)	3150	34.6	45.3	50.2	54.7	59.8	60.9	62.6	63.3	63.2	59.2	56.8	48.1	33.3	33.3
NFU (785. RAD/SEC)	4000	24.6	37.0	42.3	47.5	51.8	52.9	54.3	55.0	54.8	49.9	47.8	34.6	14.2	14.2
NFV (785. RAD/SEC)	5000	18.9	32.7	40.0	44.9	49.1	50.3	50.6	52.2	50.6	45.1	41.6	28.9	5.7	5.7
NFW (785. RAD/SEC)	6300	9.5	19.4	28.6	35.3	39.8	41.2	40.0	41.9	39.6	33.3	27.1	9.2		
NFX (785. RAD/SEC)	8000		10.1	16.6	20.1	22.5	22.6	24.2	19.9	11.9	3.9				
NFY (785. RAD/SEC)	10000						1.2	1.2							
OVERALL CALCULATED	12500	72.8	76.7	79.3	81.3	83.5	85.1	86.8	89.0	91.1	94.4	96.2	96.2	88.9	88.9
PND		76.3	81.4	84.7	87.4	90.4	91.9	93.5	95.6	96.9	98.0	98.7	96.0	89.6	89.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 28 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

RDG. NO.	VEHICLE CONFIG	LOC	DATE	RUN	TAPE	BAR	TAMB	THET	HACT	FREQ	FULL SIZE SOUND PRESSURE LEVELS				ANGLES SCALED FROM MODEL DATA				PROC. DATE - MONTH 8 DAY 24 HR. 19.0																
											40.	50.	60.	70.	30.	90.	100.	110.	120.	130.	140.	150.	160.	0.	0.	0.	0.								
50	NO EGA	CELL41									(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)	(0.0)	(0.0)	(0.0)	PBL							
63		NC40									86.1	90.1	89.4	91.7	93.3	94.1	95.5	97.9	101.6	107.4	112.1	114.3	113.6	159.5											
80											89.0	90.2	91.9	92.2	94.0	95.7	96.5	99.4	103.9	110.7	115.4	116.4	114.2	161.8											
100											90.0	92.3	93.3	94.9	96.0	97.8	99.7	102.4	107.1	114.2	118.9	119.3	117.1	163.7											
125											92.1	93.6	94.1	95.6	97.0	98.9	101.0	103.4	108.4	114.4	118.9	120.1	118.1	164.9											
160											95.9	97.2	98.2	98.5	99.6	99.9	101.6	104.2	108.4	114.0	117.5	118.1	117.2	165.5											
200											93.5	95.8	98.3	98.6	99.7	101.5	102.7	105.8	109.5	113.1	116.6	118.2	116.0	164.3											
250											93.1	95.9	96.4	98.2	99.5	101.9	102.5	106.2	109.9	113.5	115.7	116.9	115.1	163.9											
315											94.2	96.2	97.7	98.2	99.6	101.2	103.6	106.5	110.0	112.5	114.7	115.9	113.4	163.3											
400											93.5	95.6	97.3	98.9	100.2	101.8	103.7	106.6	110.6	111.9	114.4	115.0	112.3	162.6											
500											93.3	96.3	97.9	98.4	100.2	102.1	103.7	107.4	111.1	112.7	114.1	114.6	111.1	162.2											
630											92.6	95.4	97.2	98.2	100.1	101.4	103.6	107.2	110.2	112.3	113.5	113.1	109.4	161.5											
800											92.5	95.6	97.4	98.1	100.7	102.3	104.2	107.9	110.1	112.0	113.4	112.8	109.3	161.5											
1000											92.2	95.8	97.8	98.3	101.2	103.3	104.9	107.6	110.1	111.9	113.6	112.2	109.0	161.5											
1250											91.7	96.8	98.3	98.1	101.6	103.5	105.4	108.1	109.8	111.5	112.6	110.8	108.8	161.1											
1600											90.8	98.0	99.8	100.0	102.3	102.7	104.8	107.5	109.0	110.5	110.9	110.7	108.7	160.5											
2000											89.1	96.9	98.8	100.5	101.8	102.4	104.5	106.0	107.5	108.5	109.6	109.4	108.2	159.4											
2500											88.4	95.9	97.6	100.5	102.3	102.7	104.1	105.3	107.1	107.4	108.0	108.7	107.9	157.6											
3150											86.7	92.8	95.9	98.3	101.6	101.4	103.2	104.1	106.2	105.8	106.9	105.8	105.9	155.8											
4000											85.0	91.6	93.3	96.0	98.7	99.0	100.5	101.8	104.3	103.5	106.0	104.5	102.3	157.6											
5000											84.3	91.0	94.2	96.4	98.6	99.1	100.8	101.9	103.2	102.9	105.1	104.9	102.3	155.9											
6300											81.5	88.9	93.6	94.8	96.4	96.9	100.4	101.2	102.4	102.6	104.6	102.6	100.6	158.9											
8000											80.3	85.1	92.4	92.6	92.7	93.8	99.7	98.1	98.9	100.8	103.3	100.2	97.2	154.1											
12000											83.7	83.5	92.7	91.6	91.3	92.3	101.6	96.7	98.5	100.2	102.5	97.3	95.7	154.9											
12500											86.5	84.0	95.8	93.6	93.2	96.6	105.5	96.9	100.3	103.7	107.2	98.6	97.6	160.1											
OVERALL CALCULATED											105.0	108.4	110.4	111.5	113.3	114.5	116.7	118.9	121.8	125.0	128.0	128.5	126.5	130.1	132.5	133.9	135.7	135.7	134.0						
PRDB											114.5	119.9	122.0	123.9	125.8	126.5	128.5	130.1	132.5	133.9	135.7	135.7	134.0												

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 29 | ACOUSTIC RANGE 45.7m(150ft.) ARC | SIZE FULL-.33m²(513in.²)

NO EGA SIDELINE 2400. FT. (731.52 M)	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)													
	FREQ.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
50	57.9	63.5	63.9	66.3	67.4	69.6	71.4	72.1	74.6	78.3	84.1	87.2	85.8	80.1
63	60.1	63.5	66.3	67.4	69.6	71.4	72.1	74.6	78.3	84.1	87.2	85.8	80.1	79.7
80	60.6	63.5	66.3	67.4	69.6	71.4	72.1	74.6	78.3	84.1	87.2	85.8	80.1	79.7
100	62.4	66.0	67.6	69.9	71.4	73.4	75.2	77.4	81.4	87.3	90.4	88.5	82.7	81.5
125	63.5	66.7	68.3	70.6	73.1	74.4	76.4	78.3	82.6	87.5	90.3	89.1	83.5	82.7
160	67.2	70.1	72.3	73.3	74.8	75.3	76.8	79.1	82.5	86.9	88.7	87.0	82.2	82.2
200	64.5	68.5	72.2	73.3	74.8	76.8	77.8	80.5	83.5	85.9	87.6	86.8	80.7	80.7
250	63.9	68.4	70.1	72.7	74.5	77.0	77.5	80.7	83.6	86.0	86.5	85.1	79.3	79.3
315	64.6	68.4	71.2	72.5	74.3	76.1	78.3	80.8	83.4	84.8	85.2	83.7	76.9	76.9
400	63.5	67.4	70.5	72.9	74.7	76.4	78.2	80.6	83.7	83.8	84.4	82.3	75.0	75.0
500	62.8	67.8	70.6	72.0	74.3	76.4	77.8	81.0	83.9	84.1	83.6	81.1	72.7	72.7
630	61.4	66.3	69.5	71.4	73.7	75.3	77.2	80.4	82.5	83.2	82.3	78.8	69.7	69.7
800	60.4	65.7	69.0	71.7	73.8	75.6	77.3	80.4	81.7	82.1	81.3	77.3	67.9	67.9
1000	59.0	65.0	68.6	70.9	73.6	75.9	77.3	79.4	80.9	81.1	80.4	75.3	65.5	65.5
1250	57.1	64.8	68.1	70.0	72.2	75.3	77.0	79.0	79.6	79.5	78.1	72.1	62.7	62.7
1600	54.3	64.4	68.2	69.7	72.7	73.2	75.2	77.2	77.5	76.9	74.4	69.5	58.9	58.9
2000	50.3	61.5	65.5	68.6	70.6	71.5	73.3	74.1	74.3	73.0	70.8	65.2	53.9	53.9
2500	46.2	57.7	61.9	66.4	69.0	69.7	70.8	71.1	71.4	69.2	65.8	60.2	47.3	47.3
3150	39.2	50.1	56.3	60.5	64.8	65.0	66.4	66.3	66.6	63.1	59.4	50.2	34.9	34.9
4000	29.4	42.1	47.7	52.8	56.9	57.5	58.6	58.6	58.7	54.0	50.4	38.5	15.8	15.8
5000	24.0	37.6	45.2	50.0	53.7	54.7	55.9	55.6	54.2	49.5	44.8	32.7	6.9	6.9
6300	7.4	24.1	34.5	39.2	42.7	43.8	46.7	45.6	43.3	37.8	30.5	12.6		
8000	2.7	17.9	22.9	25.5	27.5	27.5	28.4	28.4	24.4	18.4	8.2			
10000	2.2	5.4	7.5	15.7	7.2	2.5								
12500														
OVERALL CALCULATED	74.6	78.9	81.7	83.5	85.6	87.3	88.9	91.3	94.0	96.7	98.4	96.7	90.9	90.9
PND8	78.5	84.9	88.5	91.0	93.5	94.7	96.3	98.3	99.9	100.8	101.0	98.7	91.5	91.5

CONFIGURATION 1 TEST POINT 29 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE
 ANECHOIC JET NOISE TEST FACILITY RESULTS

RDG. NO.	NO. EGA	ANGLES FROM INLET IN DEGREES (AND RADIANs)										P#L		
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.		140.	150.
100	80.1	89.9	87.9	82.0	90.3	90.9	91.3	92.2	92.9	95.0	99.4	98.9	101.7	136.2
125	80.3	85.4	85.0	87.9	90.2	91.1	91.7	92.7	91.4	91.4	99.6	101.6	102.1	136.5
160	80.4	83.7	85.9	86.2	87.3	87.7	88.5	89.7	92.2	97.7	101.4	103.1	104.7	137.9
200	83.5	84.5	85.3	88.1	88.7	89.3	90.7	92.8	96.8	100.4	104.8	108.3	109.0	142.0
250	82.6	85.6	86.8	87.4	88.7	90.3	93.0	95.1	98.3	103.2	108.6	110.5	110.8	144.5
315	84.4	87.7	89.5	89.5	91.8	92.7	93.8	96.0	103.2	109.8	114.5	114.1	112.9	147.4
400	86.9	88.0	89.7	90.7	91.8	93.7	95.1	98.0	103.2	109.8	114.5	115.4	113.7	149.4
500	87.8	88.5	90.0	91.1	92.9	95.0	96.4	98.8	104.5	112.4	116.6	116.7	114.0	151.0
630	89.1	90.9	91.4	92.7	94.3	95.9	98.5	100.9	106.9	113.5	117.7	118.6	116.4	152.6
800	91.1	92.4	92.7	94.2	96.0	97.2	99.3	102.4	108.2	114.2	118.7	119.4	116.9	153.5
1000	95.0	96.0	96.7	96.8	97.6	98.7	100.4	103.5	107.7	113.3	118.3	118.2	116.5	152.8
1250	93.3	95.6	97.6	96.9	98.2	100.1	101.7	104.4	109.1	113.1	117.4	118.5	116.1	152.7
1600	92.6	94.9	94.9	96.2	97.6	99.9	101.3	104.5	109.7	112.5	117.2	117.6	115.4	152.3
2000	94.2	95.5	97.0	96.5	98.1	99.7	102.3	106.0	109.7	111.8	115.8	116.7	113.7	151.4
2500	93.8	94.8	96.1	97.1	99.0	99.8	103.0	105.9	109.8	111.4	115.4	116.0	112.8	151.0
3150	94.2	95.5	96.6	97.3	99.4	100.8	102.7	106.8	109.8	111.9	115.8	114.8	111.8	150.2
4000	94.0	95.8	96.8	96.6	98.4	100.3	102.7	106.4	109.6	111.4	114.6	113.5	110.1	149.8
5000	95.1	100.2	99.2	98.0	98.8	101.2	102.6	107.0	109.2	111.3	113.5	112.4	109.7	149.3
6300	95.7	101.3	101.3	99.6	99.7	101.3	103.4	106.3	109.6	110.2	112.1	111.5	108.3	148.6
8000	94.5	99.6	100.7	101.9	101.5	102.1	103.7	106.9	108.9	110.0	111.0	110.6	107.3	147.3
10000	91.9	98.0	99.6	101.4	103.2	101.8	103.4	106.4	107.9	109.0	109.5	109.3	106.8	146.7
12500	89.3	96.1	98.0	99.2	101.7	101.6	102.9	104.2	106.0	106.9	107.6	106.9	104.8	145.7
16000	87.7	94.5	96.4	98.6	100.4	100.5	101.9	103.3	104.7	105.4	105.3	105.5	103.5	144.0
20000	84.4	91.3	93.9	96.3	98.8	98.1	100.1	101.1	103.4	102.7	103.9	102.7	101.1	144.2
25000	81.1	88.6	90.8	93.1	96.1	95.5	95.6	97.6	100.6	99.3	101.6	98.6	96.1	144.1
31500	78.7	86.5	89.3	92.2	94.2	93.4	94.1	96.5	98.0	97.2	98.6	98.2	95.1	143.1
40000	73.9	81.8	86.4	89.2	89.5	89.5	90.7	93.3	94.0	94.4	96.7	93.7	91.2	143.1
50000	69.3	75.3	82.1	84.6	81.9	83.2	85.4	87.8	88.1	89.7	92.2	89.1	83.9	144.9
63000	66.0	69.1	78.3	80.7	75.7	77.6	80.7	81.3	83.6	85.3	89.3	81.4	77.6	150.0
80000	63.6	64.5	77.0	76.4	69.3	72.1	75.8	74.9	79.1	81.9	85.4	75.4	72.9	163.9

OVERALL MEASURED 105.4 109.1 109.9 110.6 112.0 112.7 114.5 117.5 120.9 124.1 127.9 128.4 126.1
 OVERALL CALCULATED 118.0 121.6 122.1 121.7 123.2 124.5 126.5 130.0 133.3 136.0 139.7 139.6 137.0
 PNDB

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 30 ACQUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11. lin²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM., DAY - JENOTS)

FREQ.	FULL SIZE SOUND PRESSURE LEVELS					SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM., DAY - JENOTS)							
	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
NO EGA	(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)
50	89.6	92.9	94.4	94.7	97.0	97.9	99.0	101.2	105.6	111.4	116.6	119.3	118.1
63	92.1	93.2	94.9	95.9	97.0	98.9	100.3	103.2	108.4	115.0	119.7	120.6	118.9
80	93.0	93.7	95.2	96.3	98.1	100.2	101.6	104.0	109.7	116.0	121.8	121.9	119.2
RADIAL 150. FT.	100	94.3	96.1	96.6	97.9	99.5	101.1	103.7	106.1	112.1	118.7	122.9	123.8
(46. M)	125	96.5	97.6	99.4	101.2	102.4	104.5	107.6	113.4	119.4	123.9	124.6	122.1
VEHICLE CELL41	160	100.2	101.2	101.9	102.0	102.8	103.9	105.0	108.7	112.9	118.5	123.5	123.4
CONFIG NC40	200	98.5	100.8	102.8	102.1	103.4	105.3	106.9	109.6	114.3	118.4	122.6	123.7
LOC C41 ANECHO CH	250	97.9	100.1	100.2	101.4	102.8	105.1	106.5	109.7	114.9	117.7	122.4	122.9
DATE 05-28-76	315	99.4	100.7	102.2	101.7	103.3	104.9	107.6	111.2	115.0	117.0	121.0	121.9
RUN CONFLOWFLWC	400	99.0	100.1	101.3	102.4	104.2	105.1	108.2	111.1	115.1	116.7	120.6	121.3
TAPE 29.3 HG	500	99.5	100.8	101.9	102.6	104.7	106.1	108.0	112.1	115.1	117.2	121.1	117.1
BAR (99111. N/M2)	630	99.4	101.2	102.2	102.0	103.8	105.7	108.1	111.7	114.9	116.8	120.0	118.9
TAMB 63. DEG F	800	100.5	105.6	104.6	103.4	104.2	106.6	108.0	112.4	114.6	116.7	118.9	117.8
(290. DEG K)	1000	101.2	106.8	106.8	105.1	105.1	106.8	108.9	111.8	115.1	115.7	117.6	117.0
TWET 59. DEG F	1250	100.2	105.2	106.3	107.6	107.1	107.7	109.4	112.6	114.6	115.7	116.6	116.2
(289. DEG K)	1600	97.8	103.9	105.5	107.3	109.1	107.7	109.3	112.3	113.8	114.9	115.4	115.2
HACT11.49 GM/M3	2000	95.6	102.4	104.3	105.5	108.0	107.9	109.2	110.5	112.3	113.2	113.9	113.2
(.01149 KG/M3)	2500	94.6	101.4	103.3	105.5	107.3	107.4	108.9	110.3	111.6	112.4	112.2	112.5
FREQ. SHIFT	3150	92.2	99.0	101.6	104.0	106.5	105.9	107.9	108.8	111.2	110.5	111.6	110.5
JET 8	4000	89.9	97.5	99.7	102.0	104.9	104.4	104.4	106.5	109.5	108.2	110.7	107.4
DIAMETER RATIO	5000	89.5	97.4	100.1	103.0	105.0	104.2	105.0	107.3	108.9	108.0	109.5	109.0
DF/DH 6.81	6300	87.4	95.3	99.9	102.7	103.0	103.0	104.2	106.8	107.5	107.9	110.2	107.2
OVERALL CALCULATED	8000	86.2	92.1	98.9	101.4	98.8	100.1	102.3	104.7	105.0	106.6	109.1	106.0
	10000	88.0	91.0	100.3	102.6	97.6	99.5	102.7	103.2	105.6	107.2	111.2	103.3
	12500	93.0	94.0	106.5	105.8	98.7	101.6	103.2	104.3	108.5	111.3	114.9	104.8
		110.9	114.8	116.4	117.2	118.2	118.8	120.6	123.4	126.6	129.6	133.3	133.1
		120.5	125.8	127.7	129.4	130.8	131.1	132.7	134.9	137.4	138.7	140.8	140.3

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 30 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in.²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 19.0

NO EGA SIDELINE 2400. FT. (731.52 M)	FREQ.	FULL SIZE SOUND PRESSURE					LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)											
		40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.				
30	63	61.4	66.3	66.9	69.9	72.6	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	(0.)	(0.)	(0.)
100	63	63.9	66.5	69.3	71.1	72.6	74.6	76.4	80.1	84.8	88.5	88.9	84.9	84.9	84.9	84.9	84.9	84.9
NFA	125	67.0	70.7	72.1	74.3	76.6	77.9	79.9	82.6	87.6	92.5	95.3	93.6	87.2	87.5	87.5	87.5	87.5
NFK	160	71.4	74.1	76.0	76.8	78.1	79.3	80.8	83.6	87.0	91.4	94.7	92.2	86.7	85.9	85.9	85.9	85.9
NFD	200	68.6	72.7	73.9	75.9	77.7	80.3	81.5	84.2	88.6	90.3	93.2	91.1	84.8	84.8	84.8	84.8	84.8
AIREFLOW RATIO	315	69.9	72.9	75.7	76.0	78.1	79.8	82.3	85.5	88.4	89.3	91.4	89.7	82.4	82.4	82.4	82.4	82.4
W/F/M 6.81	400	69.0	71.9	74.5	76.4	78.7	79.7	82.7	85.1	88.2	88.5	90.6	88.5	80.7	80.7	80.7	80.7	80.7
VEHICLE	500	69.0	72.3	74.6	76.3	78.8	80.4	82.1	85.8	87.9	88.6	90.6	88.6	78.7	78.7	78.7	78.7	78.7
CONFIG	630	68.2	72.0	74.5	75.1	77.5	79.5	81.7	84.9	87.2	87.7	88.8	84.5	75.7	75.7	75.7	75.7	75.7
LOC (41 ANECH CH	800	68.4	75.7	76.2	75.9	77.3	79.9	81.1	84.9	86.2	86.8	86.8	82.3	73.6	73.6	73.6	73.6	73.6
DATE 05-28-76	1250	65.6	73.3	76.1	78.5	78.7	79.6	81.3	83.7	85.9	84.9	84.4	80.1	70.3	70.3	70.3	70.3	70.3
RUN CONFLOWFLWC	1600	61.3	70.4	73.9	76.9	79.4	78.2	79.7	81.9	82.2	81.4	78.9	74.0	62.9	62.9	62.9	62.9	62.9
TAPE	2000	56.8	66.9	71.0	73.6	76.9	77.0	78.0	78.6	79.0	77.8	75.1	69.0	56.9	56.9	56.9	56.9	56.9
FAN TIP SPEED	2500	52.5	63.2	67.6	71.3	74.0	74.4	75.6	76.1	75.9	74.1	70.1	63.9	49.7	49.7	49.7	49.7	49.7
FT/SEC	3150	44.6	56.3	62.0	66.2	69.8	69.5	71.1	71.0	71.5	67.8	64.1	54.9	37.9	37.9	37.9	37.9	37.9
OVERALL CALCULATED	4000	34.3	48.1	54.1	58.8	63.0	62.9	62.5	63.3	63.9	58.7	55.1	41.4	18.5	18.5	18.5	18.5	18.5
	5000	29.2	44.0	51.1	56.7	60.2	59.8	60.1	61.0	59.9	54.7	49.2	36.9	10.5	10.5	10.5	10.5	10.5
	6300	13.3	30.5	40.9	47.1	49.3	50.0	50.6	51.3	48.4	43.1	36.1	17.3					
	8000	9.8	24.4	31.7	31.6	33.8	35.2	35.0	30.5	24.2	14.0							
	10030		4.2	13.2	11.7	14.8	16.8	13.8	9.5	0.4								
	12500																	
	PND8	79.9	84.6	86.7	88.0	89.8	91.2	93.0	95.7	98.7	101.3	103.7	101.7	95.5	95.5	95.5	95.5	95.5
		84.4	90.9	94.1	96.4	98.8	99.3	100.8	102.9	104.6	105.4	106.8	104.0	96.6	96.6	96.6	96.6	96.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 30 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PRG. DATE - MONTH 8 DAY 30 HR. 10.4
 DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO.	NO EGA	VEHICLE	CONFIG	LJC	DATE	RUN	TAPE	BAR	TAMB	TWET	HACT	REQ. SHIFT	JET	DIAMETER RATIO	DF/DH	FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA			PWL	
																40.	50.	60.		70.
50	89.3	93.9	93.4	95.3	97.6	98.5	101.2	105.9	111.4	115.1	118.3	117.6	165.1							
63	91.9	93.6	95.4	95.2	97.0	97.6	99.3	102.4	106.4	115.0	118.7	119.6	165.3							
80	93.0	95.0	96.7	96.8	99.2	100.8	103.0	105.9	113.6	121.2	121.9	119.1	167.1							
100	94.6	96.8	97.6	97.4	99.2	101.9	104.5	107.4	115.9	123.4	123.1	120.6	170.2							
125	97.1	98.1	99.4	99.1	100.7	103.6	103.9	106.1	109.5	116.2	124.3	123.0	170.9							
160	101.2	103.2	105.7	103.7	105.4	106.5	107.7	111.1	117.3	126.1	124.3	120.9	172.1							
200	100.7	103.8	105.8	105.6	105.4	106.5	107.7	108.0	111.7	118.9	125.5	123.7	171.5							
250	100.4	102.4	103.1	102.4	103.5	104.6	106.2	108.6	112.7	117.7	126.3	123.0	171.5							
315	101.7	104.4	105.5	104.0	104.6	106.2	108.6	112.7	117.7	126.3	123.0	120.9	170.2							
400	102.8	105.3	105.6	105.6	106.5	107.3	109.5	113.4	118.4	124.2	122.1	119.1	171.5							
500	103.1	106.4	106.6	105.7	106.2	107.6	110.0	113.0	117.5	123.4	118.8	115.2	168.9							
630	104.7	105.5	106.3	106.0	106.6	107.5	110.1	113.0	117.4	122.1	117.7	114.9	168.3							
800	106.3	106.1	107.7	107.5	107.8	108.1	110.3	113.5	117.4	122.1	117.7	114.9	168.0							
1000	106.5	108.1	108.7	108.7	109.3	109.6	110.8	113.7	117.2	121.3	116.8	114.4	168.0							
1250	106.8	108.7	109.3	108.3	108.8	110.0	110.6	113.0	116.8	120.5	115.4	114.0	167.5							
1600	105.8	107.7	109.1	108.8	110.1	109.5	110.6	113.3	115.9	119.8	115.0	113.0	167.2							
2000	104.2	106.8	107.3	107.7	110.0	108.8	109.9	112.4	114.5	117.3	112.9	111.6	165.6							
2500	103.4	106.0	106.6	107.2	109.7	109.5	109.7	111.4	114.3	117.7	112.7	110.6	165.6							
3150	101.6	103.3	104.9	105.4	109.1	107.7	109.0	109.7	113.6	115.6	111.3	109.1	164.4							
4000	100.4	103.6	103.2	103.4	106.3	105.2	106.5	107.9	112.4	115.1	111.7	107.4	163.6							
5000	100.4	103.5	104.5	104.8	107.2	105.6	107.1	109.0	113.2	116.6	111.6	109.0	164.7							
6300	99.1	102.2	105.2	104.0	105.0	105.7	106.0	109.1	112.7	117.9	112.8	108.6	165.7							
8000	97.7	101.5	104.6	104.1	103.6	103.9	104.7	108.1	112.1	117.5	113.1	109.0	166.2							
10000	96.5	100.8	105.3	103.0	103.2	103.1	104.0	107.1	112.8	118.7	114.1	109.8	168.1							
12500	98.8	103.1	109.0	106.5	105.6	105.5	106.3	109.2	117.5	123.9	119.1	113.7	174.7							
PHDB	127.7	130.2	131.2	133.1	132.9	134.0	136.3	140.3	144.8	141.1	139.2	137.4	183.0							

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 150 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

NO EGA (731.52 M)	MFA (1. RPM)	MFK (0. RAD/SEC)	MFD (7500. RPM)	AIRFLOW RATIO WF/WM 6.81	VEHICLE CONFIG NC30	LOC C41 ANECH CH	DATE 05-25-76	RUN CONFIZEROPFW	TAPE X01500	FAN TIP SPEED FT/SEC	FULL SIZE SOUND PRESSURE					LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY)				
											40.	50.	60.	70.	80.	90.	100.	110.	120.	130.
50	61.2	67.3	67.9	69.1	71.4	73.4	74.1	76.4	80.4	84.8	87.0	87.9	83.7	110.	120.	130.	140.	150.	160.	
63	63.6	67.0	69.8	70.4	72.6	73.4	74.9	77.6	82.8	88.3	90.4	89.1	84.6	115.	125.	135.	145.	155.	165.	
80	64.6	68.2	71.1	71.9	73.4	74.6	76.6	79.4	84.9	91.3	92.4	90.3	84.5	120.	130.	140.	150.	160.	170.	
100	66.4	70.0	71.9	72.4	74.7	76.4	78.4	80.9	87.9	94.3	93.4	90.5	84.7	125.	135.	145.	155.	165.	175.	
125	68.5	71.2	73.6	74.1	76.1	77.4	79.9	83.3	90.1	96.5	94.6	91.4	86.0	130.	140.	150.	160.	170.	180.	
160	72.4	76.1	79.3	78.5	78.9	79.3	81.3	85.3	90.3	97.2	94.2	92.5	86.0	135.	145.	155.	165.	175.	185.	
200	71.8	76.5	79.7	80.5	80.5	81.8	85.8	91.7	98.2	95.4	92.3	84.9	76.0	140.	150.	160.	170.	180.	190.	
250	71.1	74.9	76.9	76.9	78.7	81.2	86.2	92.6	98.0	94.5	90.6	82.8	68.0	145.	155.	165.	175.	185.	195.	
315	72.1	76.7	78.9	78.3	79.3	81.1	83.3	87.0	91.2	98.5	93.4	88.7	80.2	150.	160.	170.	180.	190.	200.	
400	72.8	77.2	78.8	79.6	80.9	82.0	83.9	87.4	91.5	96.1	92.1	86.3	77.5	155.	165.	175.	185.	195.	205.	
500	72.5	77.8	79.4	79.3	80.4	81.9	84.1	87.3	90.9	96.4	96.4	89.9	76.0	160.	170.	180.	190.	200.	210.	
630	73.5	76.4	78.5	79.2	80.3	81.3	83.8	86.2	89.8	94.2	87.6	80.8	72.5	165.	175.	185.	195.	205.	215.	
800	74.2	76.3	79.3	80.0	80.9	81.4	83.4	86.0	89.0	92.2	85.6	79.3	70.2	170.	180.	190.	200.	210.	220.	
1030	73.4	77.4	79.5	80.5	81.7	82.2	83.2	85.5	88.0	90.6	83.6	77.4	68.9	175.	185.	195.	205.	215.	225.	
1250	72.3	76.8	79.1	79.2	80.4	81.7	82.4	84.0	86.6	88.5	80.8	75.3	66.1	180.	190.	200.	210.	220.	230.	
1600	69.3	74.2	77.5	78.5	80.5	80.0	81.0	83.0	84.3	86.3	78.5	71.8	62.4	185.	195.	205.	215.	225.	235.	
2000	65.4	71.4	74.0	75.8	78.8	77.9	78.7	80.5	81.2	81.8	74.1	67.4	56.1	190.	200.	210.	220.	230.	240.	
2500	61.2	67.8	70.8	73.0	76.4	76.5	76.4	77.3	78.6	79.4	70.6	62.1	48.9	195.	205.	215.	225.	235.	245.	
3150	54.1	60.6	65.2	67.6	72.4	71.3	72.2	71.9	73.9	72.9	63.8	53.6	37.7	200.	210.	220.	230.	240.	250.	
4000	44.7	54.1	57.6	60.2	64.2	63.8	64.7	64.7	66.9	65.6	56.1	41.3	21.1	205.	215.	225.	235.	245.	255.	
5000	40.1	50.2	55.4	58.4	62.3	61.2	62.3	62.7	64.2	63.2	51.3	38.7	18.6	210.	220.	230.	240.	250.	260.	
6300	25.0	37.4	46.1	48.5	51.3	52.7	52.3	53.6	53.6	53.1	38.7	18.6		215.	225.	235.	245.	255.	265.	
8000	2.5	19.1	30.1	34.4	36.5	37.6	37.5	38.4	37.6	35.2	18.0			220.	230.	240.	250.	260.	270.	
10000	2.5	19.1	30.1	33.6	36.5	37.6	37.5	38.4	37.6	35.2	18.0			225.	235.	245.	255.	265.	275.	
12500														230.	240.	250.	260.	270.	280.	
OVERALL CALCULATED	83.4	87.4	89.9	90.3	91.6	92.5	94.2	96.9	101.4	107.1	103.7	100.6	94.2	235.	245.	255.	265.	275.	285.	
PN08	89.7	94.5	97.5	98.4	100.5	100.8	101.9	104.1	107.4	112.1	107.1	102.9	95.1	240.	250.	260.	270.	280.	290.	

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 150 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 5 DAY 30 HR. 15.4
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.
 FREQ. (3.70)(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(2.97)(3.15)(3.33)

| NO EGA | 53 | 82 | 100 | 125 | 163 | 207 | 253 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 8000 | 10000 | 12500 | 15000 | 168.9 |
|-------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RDG. NO. | 75.4 | 86.9 | 84.4 | 84.5 | 86.3 | 86.4 | 86.4 | 86.5 | 88.0 | 88.0 | 89.7 | 90.5 | 94.4 | 94.1 | 95.7 | 90.5 | 94.4 | 94.1 | 96.8 | 98.1 | 95.7 | 131.4 | | | |
| RADIAL (12. M) | 81.1 | 84.4 | 85.4 | 86.2 | 86.4 | 87.7 | 88.2 | 87.7 | 88.2 | 87.7 | 88.2 | 87.7 | 88.2 | 87.7 | 88.2 | 87.7 | 88.2 | 87.7 | 88.2 | 87.7 | 88.2 | 132.3 | | | |
| VEHICLE | 76.6 | 80.7 | 83.2 | 82.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 83.2 | 83.0 | 133.4 | | | |
| CONFIG | 79.0 | 82.8 | 82.0 | 83.4 | 85.0 | 86.2 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 90.1 | 93.6 | 99.2 | 103.4 | 103.4 | 103.4 | 103.4 | 103.4 | 103.4 | 137.3 | | | |
| LDC C41 ANECHO CH | 79.3 | 82.3 | 83.1 | 84.5 | 86.3 | 88.0 | 89.8 | 89.8 | 89.8 | 89.8 | 90.1 | 90.1 | 92.2 | 95.9 | 102.2 | 103.4 | 103.4 | 103.4 | 103.4 | 103.4 | 103.4 | 139.4 | | | |
| DATE 05-25-76 | 80.7 | 84.9 | 84.9 | 85.5 | 87.3 | 88.9 | 89.2 | 89.2 | 89.2 | 89.2 | 90.8 | 94.0 | 99.0 | 105.3 | 109.5 | 109.5 | 109.5 | 109.5 | 109.5 | 109.5 | 109.5 | 142.3 | | | |
| RUN CONFZEROFLOW | 82.9 | 85.2 | 86.5 | 86.5 | 88.6 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 90.8 | 94.0 | 99.0 | 105.3 | 109.5 | 109.5 | 109.5 | 109.5 | 109.5 | 109.5 | 109.5 | 144.5 | | | |
| TAPE X01512 | 84.0 | 86.3 | 88.0 | 87.8 | 88.9 | 89.3 | 92.2 | 95.6 | 101.3 | 108.1 | 110.8 | 111.5 | 110.3 | 146.3 | | | | | | | | | | | |
| BAR 29.4 HG | 85.6 | 87.9 | 88.6 | 88.9 | 91.0 | 91.9 | 94.3 | 97.2 | 104.6 | 111.5 | 113.2 | 112.6 | 110.9 | 148.2 | | | | | | | | | | | |
| (92279. N/M2) | 88.9 | 89.2 | 90.4 | 90.4 | 92.0 | 93.4 | 95.8 | 98.9 | 105.7 | 113.5 | 114.7 | 114.1 | 112.9 | 149.9 | | | | | | | | | | | |
| TAMB 57. DEG F | 92.4 | 94.0 | 95.7 | 94.5 | 94.9 | 95.5 | 96.6 | 100.3 | 107.0 | 113.8 | 114.3 | 114.7 | 113.0 | 150.1 | | | | | | | | | | | |
| (287. DEG K) | 91.0 | 93.8 | 95.6 | 95.6 | 96.2 | 97.1 | 98.2 | 101.6 | 108.1 | 114.6 | 115.6 | 116.0 | 113.3 | 151.2 | | | | | | | | | | | |
| TJET 50. DEG F | 90.9 | 92.9 | 93.9 | 92.7 | 95.1 | 96.7 | 98.3 | 102.0 | 107.9 | 114.5 | 115.0 | 114.4 | 111.9 | 150.5 | | | | | | | | | | | |
| (283. DEG K) | 91.9 | 94.7 | 95.0 | 94.8 | 95.6 | 97.0 | 99.3 | 103.3 | 107.7 | 113.1 | 114.3 | 113.4 | 110.5 | 149.7 | | | | | | | | | | | |
| HACT 7.22 GM/M3 | 91.8 | 94.1 | 95.1 | 95.4 | 97.0 | 97.8 | 99.5 | 103.6 | 108.6 | 111.7 | 113.9 | 111.5 | 107.8 | 148.9 | | | | | | | | | | | |
| (.00722 KG/M3) | 92.8 | 96.6 | 96.8 | 95.9 | 97.0 | 98.3 | 99.7 | 103.9 | 108.1 | 111.9 | 112.6 | 109.8 | 107.1 | 147.0 | | | | | | | | | | | |
| FREQ. SHIFT | 92.3 | 95.6 | 96.4 | 95.9 | 97.3 | 98.1 | 99.3 | 102.9 | 107.2 | 110.8 | 110.7 | 107.1 | 104.6 | 145.3 | | | | | | | | | | | |
| JET O | 92.0 | 94.8 | 95.3 | 95.6 | 96.7 | 98.5 | 100.2 | 103.1 | 107.3 | 109.2 | 109.4 | 106.3 | 103.8 | 146.2 | | | | | | | | | | | |
| DIAMETER RATIO | 93.3 | 95.1 | 96.5 | 96.5 | 97.0 | 98.9 | 100.3 | 103.5 | 105.2 | 109.1 | 108.3 | 106.4 | 105.4 | 145.6 | | | | | | | | | | | |
| DF/DM | 95.4 | 97.0 | 96.6 | 95.9 | 96.9 | 97.8 | 100.4 | 103.4 | 105.6 | 107.8 | 106.7 | 105.5 | 105.5 | 146.5 | | | | | | | | | | | |
| DF/DM | 96.2 | 98.1 | 97.2 | 97.4 | 98.5 | 97.8 | 99.5 | 102.9 | 104.5 | 107.4 | 105.5 | 105.1 | 105.3 | 144.3 | | | | | | | | | | | |
| DF/DM | 95.2 | 98.0 | 97.0 | 96.4 | 97.2 | 97.0 | 98.3 | 100.9 | 102.2 | 105.0 | 103.8 | 103.6 | 104.0 | 144.3 | | | | | | | | | | | |
| DF/DM | 93.2 | 96.6 | 95.6 | 96.0 | 98.2 | 97.1 | 97.5 | 99.5 | 102.1 | 104.4 | 102.8 | 102.2 | 103.1 | 143.2 | | | | | | | | | | | |
| DF/DM | 89.9 | 92.6 | 93.6 | 93.9 | 96.8 | 94.7 | 95.4 | 97.4 | 99.6 | 99.6 | 99.9 | 100.8 | 97.7 | 142.5 | | | | | | | | | | | |
| DF/DM | 87.4 | 90.9 | 90.7 | 91.2 | 93.1 | 91.8 | 92.9 | 94.4 | 97.2 | 99.9 | 99.9 | 98.4 | 96.7 | 143.2 | | | | | | | | | | | |
| DF/DM | 85.0 | 88.9 | 90.0 | 89.8 | 92.0 | 90.7 | 92.0 | 93.1 | 95.8 | 98.9 | 97.9 | 96.4 | 96.7 | 144.3 | | | | | | | | | | | |
| DF/DM | 80.8 | 85.2 | 87.1 | 86.7 | 87.7 | 87.7 | 88.4 | 91.3 | 91.6 | 97.6 | 96.2 | 94.3 | 94.6 | 145.1 | | | | | | | | | | | |
| DF/DM | 74.0 | 79.8 | 82.9 | 82.7 | 81.9 | 81.7 | 84.0 | 86.7 | 86.7 | 95.1 | 93.9 | 91.6 | 91.0 | 147.9 | | | | | | | | | | | |
| DF/DM | 68.3 | 73.4 | 77.7 | 75.9 | 75.8 | 76.4 | 78.1 | 81.4 | 82.7 | 92.7 | 90.7 | 87.6 | 86.4 | 155.4 | | | | | | | | | | | |
| DF/DM | 61.5 | 67.4 | 73.0 | 70.8 | 70.1 | 70.7 | 73.9 | 77.0 | 78.8 | 91.8 | 89.2 | 85.4 | 84.5 | 162.2 | | | | | | | | | | | |

OVERALL MEASURED
 OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 151 ACQUISTIC RANGE 12.2m(40ft.) ARC MODEL-71.3cm²(11.lin²)
 SIZE

PAGE 1 - FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PREL. DATE - MDMTH & DAY 30 MR. 16-4

| FREQ. | ANGLES FROM IMLET IN DEGREES (AND RADIANMS) | | | | | | | | | | PML | |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. |
| 50 | 85.8 | 90.1 | 90.7 | 92.5 | 94.1 | 95.0 | 97.4 | 102.1 | 107.2 | 110.4 | 113.3 | 113.6 |
| 63 | 83.1 | 90.4 | 91.7 | 93.8 | 94.4 | 96.0 | 99.2 | 104.2 | 110.5 | 114.7 | 115.1 | 114.7 |
| 80 | 89.2 | 91.5 | 93.2 | 94.0 | 95.5 | 97.4 | 100.8 | 106.5 | 113.3 | 116.0 | 116.7 | 115.2 |
| 100 | 90.8 | 93.1 | 93.8 | 94.1 | 96.2 | 97.1 | 99.5 | 102.4 | 109.8 | 116.7 | 118.4 | 116.1 |
| 125 | 94.1 | 94.4 | 95.6 | 95.6 | 97.2 | 98.6 | 101.0 | 104.1 | 111.9 | 118.7 | 119.9 | 118.1 |
| 160 | 97.7 | 99.2 | 100.9 | 99.7 | 100.1 | 100.7 | 101.8 | 105.5 | 112.2 | 119.0 | 119.5 | 118.2 |
| 200 | 96.2 | 99.0 | 100.8 | 100.8 | 101.4 | 102.3 | 103.4 | 106.8 | 113.3 | 119.9 | 120.8 | 118.5 |
| 250 | 96.1 | 98.1 | 99.1 | 97.9 | 100.3 | 101.9 | 103.5 | 107.2 | 113.1 | 119.7 | 120.2 | 117.1 |
| 315 | 97.2 | 99.9 | 100.2 | 100.0 | 100.8 | 102.2 | 104.6 | 108.5 | 113.0 | 118.3 | 119.5 | 118.7 |
| 400 | 97.0 | 99.3 | 100.4 | 100.6 | 102.2 | 103.1 | 104.7 | 108.9 | 113.9 | 116.9 | 119.1 | 116.8 |
| 500 | 98.1 | 101.9 | 102.1 | 101.2 | 102.2 | 103.6 | 105.0 | 109.2 | 113.4 | 117.2 | 117.9 | 115.1 |
| 630 | 97.7 | 101.0 | 101.8 | 101.3 | 102.6 | 103.5 | 104.6 | 108.3 | 112.5 | 116.1 | 116.1 | 112.5 |
| 800 | 97.3 | 100.1 | 100.7 | 100.9 | 102.0 | 103.9 | 105.5 | 108.4 | 112.7 | 114.5 | 114.7 | 111.6 |
| 1000 | 98.8 | 100.6 | 101.9 | 101.9 | 102.5 | 104.4 | 105.8 | 108.9 | 111.7 | 114.6 | 113.7 | 111.9 |
| 1250 | 101.1 | 102.7 | 102.3 | 101.5 | 102.6 | 103.4 | 106.1 | 109.0 | 111.3 | 113.4 | 112.3 | 111.2 |
| 1600 | 102.1 | 104.0 | 103.1 | 103.3 | 104.4 | 103.7 | 105.4 | 108.8 | 110.4 | 113.3 | 111.4 | 111.0 |
| 2000 | 101.5 | 104.3 | 103.2 | 102.7 | 103.4 | 103.3 | 104.6 | 107.2 | 108.5 | 111.2 | 110.1 | 109.9 |
| 2500 | 100.1 | 103.5 | 102.5 | 102.9 | 105.1 | 104.0 | 104.4 | 106.4 | 109.0 | 111.4 | 109.7 | 110.0 |
| 3150 | 97.6 | 100.3 | 101.3 | 101.6 | 104.6 | 102.4 | 103.2 | 105.1 | 107.3 | 109.8 | 109.0 | 107.8 |
| 4000 | 96.3 | 99.8 | 99.6 | 100.1 | 102.0 | 100.7 | 101.7 | 103.3 | 106.1 | 108.8 | 109.7 | 106.6 |
| 5000 | 95.9 | 99.7 | 100.9 | 100.7 | 102.9 | 101.6 | 102.8 | 103.9 | 106.6 | 109.8 | 108.6 | 107.2 |
| 6300 | 94.3 | 98.7 | 100.6 | 100.2 | 101.2 | 101.9 | 104.8 | 105.1 | 111.1 | 109.7 | 107.8 | 107.9 |
| 8000 | 90.9 | 96.7 | 99.8 | 99.6 | 98.8 | 98.6 | 100.9 | 103.6 | 104.3 | 112.0 | 110.8 | 108.5 |
| 10000 | 90.2 | 95.4 | 99.6 | 97.8 | 97.7 | 98.4 | 100.0 | 103.4 | 104.6 | 114.5 | 112.7 | 109.5 |
| 12500 | 90.9 | 96.8 | 102.4 | 100.2 | 99.5 | 100.1 | 103.3 | 106.4 | 108.2 | 121.2 | 118.6 | 114.8 |
| OVERALL CALCULATED | 131.1 | 113.8 | 114.5 | 114.2 | 115.4 | 115.7 | 117.3 | 120.4 | 124.6 | 129.9 | 130.3 | 127.7 |
| PRBB | 123.4 | 126.5 | 126.7 | 126.7 | 128.5 | 127.9 | 129.1 | 131.6 | 134.7 | 138.5 | 138.3 | 137.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 151 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in.²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 8 DAY 30 HR. 16.6

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59.1 DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|------|------|------|------|------|------|------|-------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 57.7 | 63.5 | 64.6 | 65.9 | 68.1 | 69.9 | 70.6 | 72.6 | 76.6 | 80.6 | 82.2 | 82.9 | 79.7 |
| 63 | 59.9 | 63.7 | 66.1 | 66.9 | 69.4 | 70.1 | 71.6 | 74.4 | 78.6 | 83.8 | 86.4 | 84.6 | 80.6 |
| 80 | 60.9 | 64.7 | 67.6 | 68.1 | 69.6 | 71.1 | 72.9 | 75.9 | 80.9 | 86.6 | 87.7 | 86.1 | 81.0 |
| 100 | 62.4 | 66.3 | 68.1 | 69.2 | 71.7 | 72.7 | 74.9 | 77.4 | 84.1 | 89.8 | 89.9 | 87.0 | 81.7 |
| 125 | 65.5 | 67.4 | 69.8 | 70.6 | 72.6 | 74.1 | 76.4 | 79.1 | 86.1 | 91.7 | 91.3 | 88.4 | 83.5 |
| 160 | 68.9 | 72.1 | 75.0 | 74.5 | 75.3 | 76.1 | 77.1 | 80.3 | 86.3 | 91.9 | 90.7 | 88.7 | 83.2 |
| 200 | 67.3 | 71.8 | 74.7 | 75.5 | 76.5 | 77.5 | 78.5 | 81.5 | 87.2 | 92.6 | 91.9 | 89.8 | 83.1 |
| 250 | 66.9 | 70.7 | 72.9 | 72.4 | 75.2 | 77.0 | 78.5 | 81.7 | 86.9 | 92.3 | 91.0 | 87.8 | 81.3 |
| 315 | 67.6 | 72.2 | 73.7 | 74.3 | 75.6 | 77.1 | 79.3 | 82.8 | 86.4 | 90.5 | 89.9 | 86.5 | 79.2 |
| 400 | 67.0 | 71.2 | 73.5 | 74.6 | 76.7 | 77.7 | 79.2 | 82.9 | 87.0 | 88.8 | 89.1 | 84.0 | 75.7 |
| 500 | 67.5 | 73.3 | 74.9 | 74.8 | 76.4 | 77.9 | 79.1 | 82.8 | 86.2 | 88.7 | 87.4 | 81.6 | 74.0 |
| 630 | 66.5 | 71.8 | 74.0 | 74.5 | 76.3 | 77.3 | 78.3 | 81.5 | 84.8 | 87.0 | 84.9 | 78.1 | 70.3 |
| 800 | 65.2 | 70.3 | 72.3 | 73.5 | 75.1 | 77.2 | 78.6 | 81.0 | 84.3 | 84.7 | 82.6 | 76.1 | 67.7 |
| 1000 | 65.6 | 69.8 | 72.8 | 73.8 | 74.9 | 77.0 | 78.2 | 80.8 | 82.5 | 83.8 | 80.6 | 74.9 | 67.4 |
| 1250 | 66.5 | 70.8 | 72.1 | 72.4 | 74.1 | 75.2 | 77.6 | 79.9 | 81.1 | 81.5 | 77.8 | 72.5 | 65.1 |
| 1600 | 65.6 | 70.4 | 71.5 | 73.0 | 74.7 | 74.3 | 75.7 | 78.5 | 78.8 | 79.8 | 75.0 | 69.8 | 61.4 |
| 2000 | 62.7 | 68.8 | 70.0 | 70.7 | 72.3 | 72.4 | 73.4 | 75.2 | 75.2 | 75.8 | 71.3 | 65.6 | 56.1 |
| 2500 | 58.0 | 65.2 | 66.8 | 68.7 | 71.9 | 71.0 | 71.2 | 72.2 | 73.3 | 73.1 | 67.5 | 60.5 | 49.3 |
| 3150 | 50.1 | 57.6 | 61.6 | 63.8 | 67.8 | 66.0 | 66.4 | 67.3 | 67.6 | 67.1 | 61.5 | 52.3 | 37.9 |
| 4000 | 40.7 | 50.3 | 54.0 | 56.9 | 60.1 | 59.2 | 59.8 | 60.1 | 60.5 | 59.3 | 54.1 | 40.5 | 20.8 |
| 5000 | 35.6 | 46.4 | 51.9 | 54.4 | 58.0 | 57.2 | 58.0 | 57.6 | 57.6 | 56.4 | 48.5 | 35.1 | 12.1 |
| 6300 | 20.2 | 33.9 | 41.6 | 44.7 | 47.5 | 48.1 | 48.3 | 49.3 | 46.1 | 46.3 | 35.7 | 17.8 | |
| 8000 | | 14.3 | 25.3 | 29.9 | 31.7 | 32.3 | 33.8 | 33.9 | 30.0 | 29.6 | | | |
| 10000 | | | 3.6 | 8.4 | 11.8 | 13.6 | 14.1 | 13.9 | 8.6 | 7.7 | | | |
| 12500 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 78.1 | 82.6 | 84.7 | 85.3 | 87.0 | 88.1 | 89.6 | 92.6 | 96.7 | 100.9 | 100.2 | 97.3 | 91.5 |
| PNDB | 85.0 | 90.3 | 92.3 | 93.3 | 95.6 | 95.8 | 96.9 | 99.5 | 102.5 | 105.4 | 103.8 | 100.1 | 93.1 |

NO EGA
SIDELINE 2400. FT.
(731.52 M)
NFA (1. RPM
NFK (0. RAD/SEC)
MFD (0. RAD/SEC)
MFD 7500. RPM
(785. RAD/SEC)
AIRFLOW RATIO
WF/WM 6.81

VEHICLE CELL41
CONFIG NC30
LOC C41 ANECH CH
DATE 05-25-76
RUN CONFIGEROFW
TAPE X01510
FAN TIP SPEED
FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
1 151 731.5m(2400ft.) SIDELINE FULL-33m²(513lb.²)

| RDG. NO. | ND EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | CONF | TAPE | BAR | TAMB | TWET | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS) | | | | PWL |
|----------|--------|------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | 60. | 70. | 80. | 90. | |
| 50 | 81.1 | 85.6 | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | 152.8 | | | | |
| 63 | 53.6 | 86.4 | 85.4 | 86.7 | 88.5 | 89.7 | 91.3 | 93.4 | 95.6 | 97.9 | 100.7 | 104.9 | 107.3 | 107.9 | 155.1 | | | | |
| 80 | 84.7 | 87.5 | 88.2 | 88.3 | 89.6 | 91.2 | 92.6 | 95.0 | 97.2 | 99.2 | 103.7 | 108.4 | 109.2 | 157.1 | | | | | |
| 100 | 86.3 | 83.6 | 89.3 | 89.6 | 91.0 | 92.1 | 93.7 | 96.6 | 101.3 | 109.2 | 113.6 | 113.8 | 112.6 | 159.7 | | | | | |
| 125 | 88.3 | 89.6 | 90.6 | 90.4 | 92.2 | 93.4 | 95.2 | 97.9 | 102.6 | 109.4 | 114.9 | 114.1 | 114.1 | 160.6 | | | | | |
| 160 | 91.7 | 93.4 | 95.4 | 94.0 | 93.3 | 94.7 | 96.3 | 99.2 | 102.7 | 108.8 | 113.2 | 113.4 | 112.9 | 159.0 | | | | | |
| 200 | 89.7 | 92.8 | 94.0 | 94.1 | 95.2 | 96.0 | 97.7 | 100.3 | 103.8 | 108.4 | 112.1 | 112.7 | 112.0 | 157.6 | | | | | |
| 250 | 89.9 | 92.1 | 93.4 | 91.7 | 93.8 | 96.1 | 98.0 | 100.4 | 103.9 | 108.0 | 109.9 | 110.6 | 109.9 | 156.5 | | | | | |
| 315 | 90.7 | 93.9 | 93.7 | 93.5 | 94.6 | 96.4 | 97.8 | 101.0 | 104.0 | 107.0 | 108.5 | 108.9 | 107.7 | 156.1 | | | | | |
| 400 | 92.8 | 96.3 | 94.6 | 94.9 | 96.7 | 97.3 | 98.2 | 101.4 | 104.9 | 105.9 | 107.9 | 107.8 | 106.3 | 156.6 | | | | | |
| 500 | 94.1 | 97.6 | 96.9 | 94.9 | 96.2 | 98.6 | 99.2 | 102.4 | 105.4 | 106.5 | 107.9 | 108.1 | 106.6 | 155.7 | | | | | |
| 630 | 91.9 | 95.2 | 96.8 | 96.0 | 97.9 | 98.0 | 98.9 | 101.5 | 104.5 | 105.1 | 106.6 | 106.7 | 106.2 | 155.3 | | | | | |
| 800 | 93.8 | 95.9 | 97.4 | 97.0 | 97.8 | 98.1 | 98.9 | 101.5 | 104.4 | 104.5 | 106.0 | 105.6 | 105.6 | 155.5 | | | | | |
| 1000 | 93.0 | 95.9 | 96.4 | 96.4 | 97.5 | 99.1 | 99.5 | 102.9 | 104.2 | 103.8 | 105.5 | 105.9 | 104.6 | 155.5 | | | | | |
| 1250 | 92.8 | 94.4 | 95.3 | 95.8 | 97.6 | 98.7 | 100.1 | 102.5 | 103.8 | 103.7 | 104.9 | 106.7 | 107.4 | 155.5 | | | | | |
| 1600 | 93.3 | 95.0 | 95.4 | 95.3 | 97.9 | 98.5 | 99.6 | 101.8 | 103.4 | 103.6 | 104.7 | 106.8 | 107.5 | 155.4 | | | | | |
| 2000 | 91.7 | 93.8 | 94.0 | 94.7 | 97.5 | 97.8 | 99.1 | 100.7 | 100.7 | 101.8 | 103.1 | 103.1 | 106.1 | 154.1 | | | | | |
| 2500 | 91.4 | 93.3 | 93.3 | 93.7 | 97.4 | 98.3 | 98.7 | 100.7 | 101.3 | 101.9 | 103.2 | 104.9 | 105.0 | 154.1 | | | | | |
| 3150 | 89.9 | 90.6 | 91.3 | 92.1 | 96.1 | 95.7 | 97.7 | 98.9 | 100.1 | 100.3 | 102.1 | 102.6 | 103.2 | 152.7 | | | | | |
| 4000 | 88.3 | 90.6 | 89.9 | 90.6 | 93.3 | 93.2 | 95.3 | 96.9 | 98.4 | 99.3 | 102.0 | 100.9 | 101.3 | 151.5 | | | | | |
| 5000 | 87.9 | 90.5 | 90.2 | 90.5 | 94.4 | 93.9 | 95.6 | 97.3 | 99.0 | 100.3 | 101.6 | 102.0 | 101.1 | 152.2 | | | | | |
| 6300 | 86.4 | 89.5 | 90.2 | 91.3 | 92.5 | 93.8 | 94.3 | 97.4 | 98.0 | 101.2 | 101.6 | 101.1 | 101.0 | 152.5 | | | | | |
| 8000 | 85.0 | 88.3 | 89.4 | 91.0 | 90.5 | 92.0 | 92.0 | 96.0 | 96.4 | 101.9 | 102.7 | 100.4 | 100.5 | 153.1 | | | | | |
| 10000 | 84.7 | 88.4 | 89.2 | 90.1 | 91.0 | 91.1 | 91.5 | 95.2 | 95.9 | 104.5 | 103.2 | 101.1 | 99.9 | 153.1 | | | | | |
| 12500 | 88.2 | 92.1 | 91.9 | 94.3 | 93.4 | 94.0 | 94.1 | 97.6 | 99.4 | 111.5 | 108.8 | 105.7 | 105.0 | 162.6 | | | | | |
| PNDB | 115.9 | 118.2 | 118.5 | 118.7 | 121.2 | 122.0 | 123.0 | 125.2 | 126.8 | 128.7 | 130.6 | 131.2 | 131.1 | 170.8 | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 152 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(513in.)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | | |
|--------------------|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIANs) | | | | | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | | |
| | | (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.) | (0.1.) | (0.2.) | (0.3.) | (0.4.) | (0.5.) | (0.6.) | (0.7.) | (0.8.) | (0.9.) | (1.0.) | (1.1.) | (1.2.) | | | | | |
| FREQ. | | 50 | 52.9 | 59.0 | 59.7 | 62.1 | 62.1 | 64.6 | 64.6 | 65.4 | 66.9 | 68.6 | 72.3 | 77.1 | 80.2 | 78.8 | 75.1 | | |
| NO EGA | | 80 | 56.4 | 60.7 | 62.6 | 63.4 | 65.1 | 66.9 | 68.1 | 70.1 | 73.6 | 79.6 | 82.4 | 80.6 | 80.6 | 80.6 | 76.0 | 78.2 | |
| SIDELINE 2400. FT. | | 100 | 57.9 | 61.8 | 63.6 | 64.7 | 66.4 | 67.7 | 69.2 | 71.7 | 75.6 | 82.3 | 83.0 | 83.0 | 83.0 | 78.2 | 79.5 | 79.5 | |
| (731.52 M) | | 125 | 59.8 | 62.7 | 64.8 | 65.3 | 67.6 | 68.9 | 70.6 | 72.8 | 76.8 | 82.5 | 86.3 | 83.1 | 81.7 | 84.5 | 82.2 | 78.0 | 78.0 |
| NFA (1. RPM | | 160 | 62.9 | 66.4 | 69.5 | 68.8 | 70.1 | 71.6 | 74.1 | 76.8 | 81.7 | 84.5 | 82.2 | 81.1 | 81.3 | 81.3 | 76.6 | 76.6 | 76.6 |
| NFK (0. RAD/SEC) | | 200 | 60.8 | 65.5 | 67.9 | 68.8 | 70.3 | 71.3 | 72.8 | 75.0 | 77.7 | 81.1 | 83.1 | 81.1 | 81.1 | 81.1 | 76.6 | 76.6 | 76.6 |
| NFD (7500. RPM | | 250 | 60.6 | 64.7 | 67.1 | 66.2 | 68.7 | 71.2 | 73.0 | 74.9 | 77.6 | 80.5 | 80.7 | 78.8 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 |
| (785. RAD/SEC) | | 315 | 61.1 | 66.2 | 67.2 | 67.8 | 69.3 | 71.2 | 72.6 | 75.3 | 77.4 | 79.3 | 78.9 | 76.7 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 |
| AIREFLOW RATIO | | 400 | 62.8 | 68.2 | 67.8 | 68.9 | 71.2 | 72.0 | 72.7 | 75.4 | 78.0 | 77.8 | 77.9 | 75.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 |
| WF/WM 6.81 | | 500 | 63.5 | 69.1 | 69.7 | 68.5 | 70.4 | 72.9 | 73.4 | 76.0 | 78.2 | 77.9 | 77.4 | 74.6 | 68.2 | 68.2 | 68.2 | 68.2 | 68.2 |
| | | 630 | 60.7 | 66.1 | 69.0 | 69.2 | 71.6 | 71.8 | 72.6 | 74.7 | 76.8 | 76.0 | 75.4 | 72.3 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| VEHICLE CELL41 | | 800 | 61.7 | 66.0 | 69.0 | 69.5 | 70.9 | 71.4 | 72.9 | 74.0 | 76.0 | 74.7 | 73.9 | 70.1 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 |
| CONFIG NC30 | | 1000 | 59.9 | 65.1 | 67.3 | 68.3 | 69.9 | 71.7 | 71.9 | 74.8 | 75.0 | 73.0 | 72.3 | 68.9 | 63.1 | 63.1 | 63.1 | 63.1 | 63.1 |
| LGC C41 ANECH CH | | 1250 | 58.3 | 62.5 | 65.1 | 66.7 | 69.1 | 70.4 | 71.6 | 73.5 | 73.6 | 71.8 | 70.3 | 68.0 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 |
| DATE 05-25-76 | | 1600 | 56.8 | 61.5 | 63.8 | 65.0 | 68.2 | 69.0 | 69.9 | 71.5 | 71.8 | 70.0 | 68.2 | 65.6 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 |
| RUN CONFIZEROFLM | | 2000 | 52.9 | 58.4 | 60.7 | 62.8 | 66.3 | 66.9 | 67.9 | 68.8 | 67.5 | 66.3 | 64.3 | 60.9 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 |
| TAPE X01520 | | 2500 | 49.2 | 55.0 | 57.6 | 59.5 | 64.1 | 65.2 | 65.4 | 66.5 | 65.6 | 63.7 | 61.1 | 56.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 |
| FAN TIP SPEED | | 3150 | 42.3 | 47.8 | 51.7 | 54.4 | 59.4 | 59.3 | 61.0 | 61.1 | 60.4 | 57.6 | 54.5 | 47.1 | 32.2 | 32.2 | 32.2 | 32.2 | 32.2 |
| FT/SEC | | 4000 | 32.7 | 41.1 | 44.3 | 47.4 | 51.6 | 51.8 | 53.4 | 53.7 | 52.8 | 49.9 | 46.4 | 34.8 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 |
| | | 5000 | 27.6 | 37.2 | 41.2 | 44.2 | 49.6 | 49.5 | 50.8 | 50.9 | 49.0 | 47.0 | 41.3 | 29.9 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | | 6300 | 12.3 | 24.7 | 31.2 | 35.7 | 38.9 | 40.7 | 40.6 | 41.8 | 38.9 | 36.4 | 27.5 | 11.2 | | | | | |
| | | 8000 | 5.9 | 14.9 | 21.3 | 23.3 | 25.7 | 24.9 | 26.3 | 21.9 | 19.5 | 7.6 | | | | | | | |
| | | 10000 | 0.7 | 5.1 | 6.4 | 5.6 | 5.7 | | | | | | | | | | | | |
| | | 12500 | 72.4 | 77.1 | 79.0 | 79.4 | 81.3 | 82.6 | 83.7 | 85.9 | 88.1 | 90.9 | 93.0 | 90.7 | 86.3 | | | | |
| OVERALL CALCULATED | | PND8 | 77.9 | 83.2 | 85.0 | 86.0 | 88.9 | 90.0 | 91.0 | 92.7 | 94.0 | 94.7 | 95.4 | 92.8 | 87.2 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 152 731.5m(2400ft.) SIDELINE FULL-33m²(513m²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 30 HR. 16.6

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PROC. DATE - MONTH 8 DAY 30 HR. 16.6 |
|--------------------|---|-------|-------|-------|-------|--------------------------------------|
| | 40. | 50. | 60. | 70. | 80. | |
| 50 | 77.3 | 81.4 | 81.6 | 82.2 | 83.8 | 120. |
| 63 | 76.9 | 81.7 | 83.7 | 82.9 | 84.5 | 130. |
| 80 | 79.7 | 83.2 | 84.2 | 83.8 | 84.9 | 140. |
| 100 | 81.3 | 83.8 | 84.8 | 84.9 | 86.5 | 150. |
| 125 | 82.3 | 85.4 | 86.4 | 85.9 | 87.6 | 160. |
| 160 | 84.7 | 86.9 | 88.4 | 87.5 | 89.7 | 170. |
| 200 | 84.5 | 88.0 | 89.3 | 88.3 | 91.7 | 180. |
| 250 | 84.6 | 89.4 | 90.2 | 89.5 | 92.5 | 190. |
| 315 | 85.7 | 90.0 | 90.2 | 89.2 | 91.7 | 200. |
| 400 | 90.0 | 94.8 | 92.6 | 92.1 | 93.6 | 210. |
| 500 | 91.6 | 97.4 | 93.4 | 92.4 | 93.7 | 220. |
| 630 | 99.2 | 103.2 | 94.5 | 95.0 | 95.9 | 230. |
| 800 | 90.6 | 94.1 | 94.2 | 96.5 | 97.3 | 240. |
| 1000 | 88.0 | 91.9 | 93.5 | 93.0 | 94.9 | 250. |
| 1250 | 89.1 | 91.4 | 91.5 | 91.5 | 93.3 | 260. |
| 1600 | 87.1 | 90.0 | 90.4 | 91.3 | 94.1 | 270. |
| 2000 | 86.2 | 89.6 | 89.0 | 89.7 | 92.5 | 280. |
| 2500 | 84.6 | 88.8 | 87.8 | 88.9 | 92.4 | 290. |
| 3150 | 82.7 | 86.4 | 85.9 | 86.9 | 91.1 | 300. |
| 4000 | 81.1 | 86.1 | 84.2 | 84.4 | 87.3 | 310. |
| 5000 | 80.5 | 86.6 | 84.3 | 84.6 | 87.7 | 320. |
| 6300 | 78.7 | 86.6 | 85.1 | 84.1 | 85.9 | 330. |
| 8000 | 76.8 | 86.6 | 84.0 | 83.3 | 83.6 | 340. |
| 10000 | 76.5 | 87.1 | 84.9 | 82.6 | 83.0 | 350. |
| 12500 | 78.7 | 91.4 | 88.8 | 85.3 | 84.9 | 360. |
| 15000 | 78.7 | 91.4 | 88.8 | 85.3 | 84.9 | 370. |
| OVERALL CALCULATED | 102.3 | 106.6 | 103.7 | 103.7 | 105.8 | 380. |
| PWDB | 111.9 | 116.4 | 113.7 | 114.0 | 116.6 | 390. |
| | | | | | | 400. |
| | | | | | | 410. |
| | | | | | | 420. |
| | | | | | | 430. |
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| | | | | | | 960. |
| | | | | | | 970. |
| | | | | | | 980. |
| | | | | | | 990. |
| | | | | | | 1000. |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT 153

ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE

FULL-.33m²(513in.²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | (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) |
| 63 | 49.2 | 54.8 | 56.1 | 57.4 | 59.4 | 60.1 | 61.4 | 63.4 | 65.6 | 68.3 | 71.0 | 71.4 | 68.2 |
| 80 | 51.4 | 56.5 | 58.6 | 58.9 | 60.4 | 62.1 | 63.4 | 65.6 | 67.9 | 72.8 | 74.7 | 73.8 | 69.9 |
| 100 | 52.9 | 57.0 | 59.1 | 59.9 | 61.9 | 63.2 | 64.2 | 66.2 | 68.9 | 73.3 | 76.7 | 76.0 | 71.3 |
| 125 | 53.8 | 58.4 | 60.6 | 60.8 | 62.1 | 63.9 | 65.6 | 67.6 | 70.1 | 72.7 | 75.8 | 74.1 | 70.5 |
| 160 | 55.9 | 59.9 | 62.5 | 62.3 | 63.3 | 65.1 | 66.3 | 68.3 | 70.5 | 72.9 | 73.7 | 72.2 | 66.7 |
| 200 | 55.5 | 60.8 | 63.2 | 63.0 | 64.3 | 65.5 | 66.8 | 68.5 | 70.9 | 72.9 | 72.4 | 69.8 | 63.4 |
| 250 | 55.4 | 60.9 | 63.9 | 61.9 | 64.5 | 66.0 | 67.5 | 69.4 | 71.4 | 72.5 | 70.5 | 67.8 | 61.0 |
| 315 | 56.1 | 62.2 | 63.7 | 63.5 | 65.8 | 66.6 | 67.6 | 70.0 | 71.2 | 72.0 | 69.4 | 67.2 | 59.7 |
| 400 | 60.1 | 66.7 | 65.8 | 66.1 | 67.2 | 68.2 | 68.2 | 70.1 | 72.0 | 72.1 | 70.9 | 69.5 | 62.0 |
| 500 | 61.0 | 68.8 | 66.2 | 66.0 | 67.9 | 70.2 | 69.9 | 70.8 | 72.9 | 72.2 | 69.4 | 68.4 | 62.5 |
| 630 | 68.0 | 74.1 | 66.8 | 68.2 | 73.1 | 73.8 | 74.1 | 73.2 | 77.3 | 74.5 | 71.1 | 70.6 | 68.0 |
| 800 | 58.5 | 64.3 | 65.8 | 69.0 | 70.4 | 69.9 | 71.1 | 72.0 | 71.0 | 69.7 | 67.1 | 68.1 | 62.7 |
| 1000 | 54.9 | 61.1 | 64.3 | 64.8 | 66.0 | 67.5 | 67.7 | 69.0 | 69.8 | 67.6 | 65.3 | 64.2 | 56.4 |
| 1250 | 54.5 | 59.5 | 61.4 | 62.5 | 64.9 | 66.5 | 67.4 | 67.7 | 68.6 | 66.3 | 63.3 | 62.5 | 54.1 |
| 1600 | 50.6 | 56.5 | 58.8 | 61.0 | 64.5 | 64.5 | 65.5 | 67.0 | 66.5 | 64.1 | 60.5 | 58.8 | 50.2 |
| 2000 | 47.4 | 54.1 | 55.7 | 57.8 | 61.3 | 62.7 | 63.0 | 63.8 | 62.5 | 60.3 | 56.3 | 53.9 | 44.1 |
| 2500 | 42.5 | 50.5 | 52.1 | 54.8 | 59.1 | 60.5 | 61.2 | 61.0 | 60.8 | 57.2 | 52.3 | 48.3 | 36.4 |
| 3150 | 35.1 | 43.6 | 46.2 | 49.1 | 54.4 | 54.6 | 56.3 | 56.4 | 56.0 | 50.6 | 45.3 | 38.8 | 24.0 |
| 4000 | 25.5 | 36.7 | 38.6 | 41.2 | 45.4 | 47.3 | 48.7 | 48.7 | 47.9 | 42.2 | 37.4 | 25.9 | 6.4 |
| 5000 | 20.2 | 33.2 | 35.3 | 38.2 | 42.9 | 45.0 | 45.8 | 46.5 | 44.8 | 38.8 | 30.6 | 19.0 | |
| 6300 | 4.6 | 21.8 | 26.0 | 28.6 | 32.2 | 36.1 | 35.7 | 37.2 | 34.0 | 28.0 | 17.1 | 0.3 | |
| 8000 | | 4.3 | 9.5 | 13.6 | 16.4 | 21.3 | 21.5 | 22.1 | 18.0 | 10.4 | | | |
| 10000 | | | | | | 3.1 | 2.1 | 2.2 | | | | | |
| 12500 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.9 | 77.1 | 75.3 | 76.2 | 78.6 | 80.2 | 80.2 | 81.2 | 83.2 | 83.7 | 84.4 | 83.4 | 78.8 |
| PMDB | 77.1 | 83.6 | 81.2 | 82.7 | 85.9 | 87.8 | 87.6 | 88.0 | 90.1 | 88.7 | 86.7 | 85.3 | 80.0 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 153 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-33m²(513in.²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 5 DAY 33 HR. 16.4

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

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. | D. | D. | D. |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| FREQ. (C.) | (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) |
| NO EGA | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |
| RDG. NO. | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| RADIAL (40. FT.) | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 |
| VEHICLE | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 |
| CONFIG | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C | ML3C |
| LDC | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH | C41 ANECH CH |
| DATE | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 | 05-25-76 |
| RJN | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH | CONFIZEROFLEH |
| TAPE | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG | 29-4 MG |
| BAR | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 | X01540 |
| TAMP | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) | (99347. N/M2) |
| TMB | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F | 61. DEG F |
| TRET | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K | 53. DEG K |
| HACT | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 | 7.77 GM/M3 |
| FREQ. SHIF | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) | (.00777 KG/M3) |
| JET | | | | | | | | | | | | | | | | | |
| DIAMETER RATIO | | | | | | | | | | | | | | | | | |
| DF/DM | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | 91.7 | 96.1 | 94.9 | 94.6 | 96.4 | 97.2 | 97.9 | 98.7 | 101.5 | 102.7 | 104.1 | 104.7 | 105.3 | | | | |
| OVERALL CALCULATED | PNDB 105.4 | 110.0 | 108.3 | 107.8 | 109.5 | 110.3 | 110.8 | 111.2 | 114.1 | 115.3 | 116.0 | 116.0 | 116.3 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT | ACUSTIC RANGE | SIZE

| 154 | 12.2m(40ft.) ARC | MODEL-71.3cm²(11.1in²)

458

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 30 HR. 16.3

| RDG. NO.
RADIOAL 150. FT.
(46. M) | VEHICLE
CELL41 | CONFIG
NC30 | LOC C41 ARECH CH | DATE 05-25-76 | RUN CONFIZEROFLW | TAPE
X01540 | BAR
29.4 HG
(99347. N/M2) | JAMB
61. DEG F
(289. DEG K) | TWEY
53. DEG F
(285. DEG K) | HACT
7.77 GM/M3 | FREQ.
(.00777 KG/M3) | FULL SIZE SOUND PRESSURE LEVELS | | | | | ANGLES FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PML | | | |
|--|-------------------|----------------|------------------|---------------|------------------|----------------|---------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------|---------------------------------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | | 160. | 0. | 0. |
| 50 | NO EGA | | | | | | | | | | | 75.1 | 78.6 | 79.6 | 79.9 | 81.3 | 81.9 | 83.3 | 84.4 | 88.1 | 92.2 | 95.4 | 98.3 | 99.1 | 144.0 |
| 63 | 0. | | | | | | | | | | | 76.4 | 79.2 | 80.9 | 80.4 | 81.8 | 82.4 | 84.0 | 84.9 | 89.7 | 94.5 | 99.2 | 100.4 | 106.7 | 146.3 |
| 80 | | | | | | | | | | | | 77.7 | 80.2 | 81.2 | 81.0 | 82.6 | 83.2 | 85.1 | 86.3 | 89.7 | 95.3 | 99.3 | 101.2 | 101.7 | 146.9 |
| 100 | | | | | | | | | | | | 79.1 | 81.3 | 82.6 | 82.1 | 83.5 | 84.3 | 86.0 | 86.6 | 91.1 | 95.4 | 98.9 | 100.5 | 100.6 | 146.5 |
| 125 | | | | | | | | | | | | 79.3 | 82.4 | 83.1 | 83.1 | 83.7 | 85.4 | 87.5 | 87.9 | 92.6 | 96.2 | 98.1 | 98.6 | 98.4 | 145.9 |
| 160 | | | | | | | | | | | | 80.9 | 83.2 | 85.4 | 84.2 | 84.8 | 86.2 | 87.8 | 89.0 | 93.2 | 96.0 | 96.5 | 96.1 | 94.9 | 144.9 |
| 200 | | | | | | | | | | | | 81.0 | 84.8 | 86.3 | 85.6 | 86.2 | 87.0 | 88.4 | 89.1 | 94.0 | 96.1 | 96.1 | 95.2 | 93.5 | 144.9 |
| 250 | | | | | | | | | | | | 82.4 | 85.9 | 87.4 | 85.4 | 87.8 | 88.6 | 89.8 | 90.7 | 94.7 | 96.5 | 95.4 | 94.1 | 92.9 | 145.2 |
| 315 | | | | | | | | | | | | 82.7 | 87.4 | 87.5 | 87.0 | 88.3 | 89.2 | 90.3 | 91.2 | 94.0 | 96.5 | 96.0 | 94.9 | 93.2 | 145.5 |
| 400 | | | | | | | | | | | | 88.3 | 92.6 | 91.1 | 90.4 | 90.5 | 91.6 | 91.5 | 92.1 | 95.8 | 96.4 | 97.6 | 96.8 | 96.8 | 147.4 |
| 500 | | | | | | | | | | | | 88.3 | 94.4 | 91.4 | 90.7 | 92.0 | 92.4 | 92.7 | 93.4 | 95.9 | 96.7 | 95.9 | 96.1 | 95.6 | 147.5 |
| 630 | | | | | | | | | | | | 89.4 | 94.7 | 91.0 | 89.3 | 92.6 | 93.5 | 93.6 | 93.0 | 95.3 | 96.1 | 95.3 | 95.2 | 94.5 | 147.5 |
| 800 | | | | | | | | | | | | 88.3 | 92.6 | 89.7 | 90.4 | 93.0 | 93.6 | 93.8 | 94.2 | 96.9 | 95.5 | 96.0 | 96.4 | 96.6 | 147.8 |
| 1000 | | | | | | | | | | | | 84.5 | 88.4 | 89.7 | 90.2 | 91.3 | 91.9 | 92.5 | 93.9 | 96.2 | 94.8 | 96.2 | 96.9 | 97.1 | 147.2 |
| 1250 | | | | | | | | | | | | 85.0 | 87.7 | 88.3 | 88.5 | 90.6 | 91.4 | 92.6 | 93.0 | 95.5 | 94.9 | 95.1 | 95.4 | 96.7 | 146.5 |
| 1600 | | | | | | | | | | | | 83.5 | 86.4 | 86.8 | 87.8 | 90.6 | 91.2 | 91.8 | 93.0 | 94.3 | 94.0 | 93.9 | 94.2 | 95.7 | 145.8 |
| 2000 | | | | | | | | | | | | 81.7 | 84.5 | 85.2 | 86.9 | 89.4 | 90.0 | 91.3 | 91.9 | 93.4 | 94.0 | 93.9 | 94.2 | 95.7 | 144.6 |
| 2500 | | | | | | | | | | | | 81.3 | 84.4 | 84.2 | 85.3 | 88.9 | 90.2 | 90.4 | 91.6 | 93.2 | 91.3 | 91.4 | 91.8 | 92.8 | 144.0 |
| 3150 | | | | | | | | | | | | 79.1 | 81.5 | 82.3 | 83.1 | 87.5 | 87.4 | 89.1 | 90.1 | 91.5 | 89.5 | 89.5 | 88.3 | 88.9 | 141.0 |
| 4000 | | | | | | | | | | | | 77.8 | 81.0 | 81.1 | 81.0 | 84.4 | 84.9 | 86.4 | 88.5 | 89.8 | 87.0 | 89.9 | 86.3 | 87.2 | 141.1 |
| 5000 | | | | | | | | | | | | 77.1 | 80.4 | 82.1 | 81.4 | 84.8 | 84.5 | 86.5 | 89.4 | 89.3 | 87.0 | 88.3 | 86.4 | 87.0 | 141.7 |
| 6300 | | | | | | | | | | | | 80.2 | 82.1 | 81.4 | 82.7 | 84.4 | 84.4 | 86.4 | 88.4 | 86.8 | 86.8 | 89.2 | 87.0 | 87.9 | 142.9 |
| 8000 | | | | | | | | | | | | 74.2 | 79.0 | 82.1 | 80.6 | 80.9 | 81.4 | 82.7 | 83.1 | 86.3 | 85.5 | 89.6 | 87.5 | 87.7 | 146.6 |
| 10000 | | | | | | | | | | | | 75.1 | 79.1 | 83.7 | 80.6 | 81.2 | 81.1 | 82.2 | 86.4 | 86.4 | 86.8 | 89.6 | 89.1 | 89.1 | 151.8 |
| 12500 | | | | | | | | | | | | 78.3 | 82.8 | 88.5 | 84.7 | 83.8 | 84.4 | 84.0 | 98.2 | 89.3 | 92.2 | 99.0 | 95.1 | 94.4 | 160.1 |
| OVERALL CALCULATED | | | | | | | | | | | | 97.2 | 101.6 | 100.7 | 100.3 | 102.9 | 103.7 | 106.1 | 107.2 | 108.2 | 109.8 | 110.0 | 110.1 | 110.1 | |
| PWDB | | | | | | | | | | | | 106.9 | 110.6 | 110.5 | 110.7 | 113.3 | 114.2 | 114.9 | 116.9 | 118.2 | 117.6 | 118.5 | 117.7 | 118.4 | |

REPRODUCIBILITY OF THE ORIGINAL

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
 154 45.7m(150ft.) ARC FULL-33m²(513in.²)

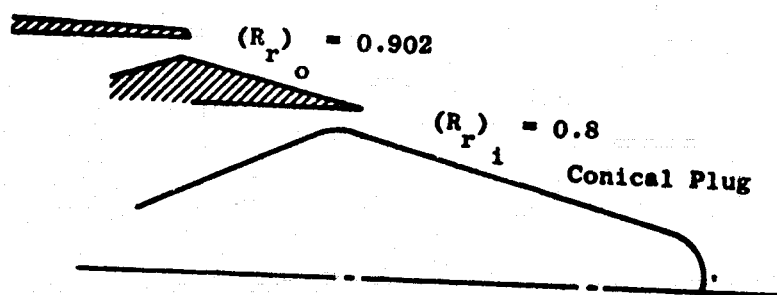
| NO EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RAD/SEC) | NFK
(0. RAD/SEC) | MFD 7500. RPM
(785. RAD/SEC) | AIRFLOW RATIO
W/F/W 6.81 | VEHICLE
CONFIG
LOC C41 ANECH CM
DATE 05-25-76
RUN CONFIZEROFW
TAPE X01540
FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|--------------------|----------------------------------|----------------------|----------------------|----------------------------------|-----------------------------|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 66.9 | 52.0 | 56.1 | 55.6 | 57.4 | 58.1 | 59.6 | 60.1 | 61.4 | 61.7 | 65.4 | 68.6 | 70.4 | 69.6 | 67.0 | 65.0 | 60.0 | 0. | 0. | 0. |
| 63 | 68.1 | 52.5 | 55.3 | 55.6 | 57.4 | 58.1 | 59.6 | 60.1 | 61.4 | 61.7 | 65.4 | 68.6 | 70.4 | 69.6 | 67.0 | 65.0 | 60.0 | 0. | 0. | 0. |
| 80 | 49.4 | 53.5 | 55.6 | 56.1 | 58.1 | 58.9 | 60.6 | 61.4 | 64.1 | 64.1 | 68.6 | 70.9 | 70.6 | 69.8 | 69.8 | 66.6 | 66.6 | 0. | 0. | 0. |
| 125 | 50.8 | 54.5 | 56.9 | 57.2 | 58.9 | 59.9 | 61.4 | 61.4 | 61.7 | 65.4 | 68.6 | 70.4 | 69.8 | 69.8 | 66.2 | 63.7 | 63.7 | 0. | 0. | 0. |
| 160 | 52.2 | 56.1 | 59.5 | 59.1 | 60.1 | 61.6 | 63.1 | 63.1 | 63.8 | 67.3 | 68.9 | 67.7 | 65.0 | 60.0 | 60.0 | 60.0 | 60.0 | 0. | 0. | 0. |
| 200 | 52.0 | 57.5 | 60.2 | 60.3 | 61.3 | 62.3 | 63.5 | 63.8 | 67.9 | 68.9 | 67.1 | 63.8 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 0. | 0. | 0. |
| 315 | 53.1 | 59.7 | 60.9 | 61.3 | 63.1 | 64.1 | 65.1 | 65.5 | 67.4 | 68.8 | 66.4 | 62.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 0. | 0. | 0. |
| 400 | 58.3 | 64.5 | 64.3 | 64.4 | 64.9 | 66.2 | 65.9 | 66.1 | 69.0 | 68.3 | 67.6 | 64.0 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 | 0. | 0. | 0. |
| 500 | 57.8 | 65.8 | 64.2 | 64.3 | 66.1 | 66.6 | 66.9 | 67.0 | 68.7 | 68.2 | 65.4 | 62.6 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 0. | 0. | 0. |
| 630 | 58.2 | 65.6 | 63.3 | 62.4 | 66.3 | 67.3 | 67.3 | 66.2 | 67.5 | 67.0 | 64.1 | 60.8 | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 | 0. | 0. | 0. |
| 800 | 56.2 | 62.8 | 61.3 | 63.0 | 66.1 | 66.9 | 66.9 | 66.8 | 68.5 | 65.7 | 63.9 | 60.8 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 0. | 0. | 0. |
| 1000 | 51.3 | 57.6 | 60.5 | 62.0 | 63.7 | 64.5 | 64.9 | 65.8 | 67.0 | 64.0 | 63.0 | 59.9 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 0. | 0. | 0. |
| 1250 | 50.5 | 55.8 | 58.1 | 59.4 | 62.1 | 63.2 | 64.1 | 63.9 | 65.3 | 63.0 | 60.5 | 56.7 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 0. | 0. | 0. |
| 1600 | 47.1 | 52.9 | 55.2 | 57.4 | 60.9 | 61.7 | 62.2 | 62.7 | 62.7 | 60.5 | 57.4 | 53.0 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 0. | 0. | 0. |
| 2000 | 42.9 | 49.1 | 51.9 | 55.0 | 58.3 | 59.1 | 60.2 | 60.0 | 60.2 | 56.0 | 53.0 | 47.6 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 0. | 0. | 0. |
| 2500 | 39.2 | 46.2 | 48.5 | 51.2 | 55.6 | 57.2 | 57.1 | 57.4 | 57.5 | 53.1 | 49.2 | 41.2 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 0. | 0. | 0. |
| 3150 | 31.5 | 38.8 | 42.6 | 45.3 | 50.8 | 51.0 | 52.4 | 52.3 | 51.8 | 46.7 | 41.9 | 32.7 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 0. | 0. | 0. |
| 4000 | 22.2 | 31.5 | 35.5 | 37.8 | 42.5 | 43.4 | 44.5 | 45.3 | 44.2 | 37.5 | 34.2 | 20.2 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0. | 0. | 0. |
| 5000 | 16.8 | 27.1 | 33.1 | 35.1 | 40.0 | 40.1 | 41.7 | 43.1 | 40.3 | 33.6 | 28.0 | 14.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0. | 0. | 0. |
| 6300 | 2.0 | 15.4 | 23.0 | 25.9 | 29.0 | 31.4 | 30.8 | 35.5 | 29.3 | 22.0 | 15.1 | 6.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0. | 0. | 0. |
| 8000 | | 7.5 | 10.9 | 13.7 | 15.1 | 15.1 | 15.5 | 23.4 | 11.8 | 3.1 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0. | 0. | 0. |
| 10000 | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 65.9 | 72.3 | 72.4 | 72.8 | 75.0 | 75.9 | 76.5 | 76.7 | 79.0 | 79.6 | 79.4 | 77.8 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 0. | 0. | 0. |
| PND | 70.8 | 77.8 | 78.2 | 78.9 | 81.6 | 82.5 | 83.2 | 83.5 | 84.8 | 85.8 | 82.4 | 78.8 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 0. | 0. | 0. |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION | TEST POINT 154 | ACUSTIC RANGE 731.5m(2400ft.) SIDELINE | SIZE FULL-.33m²(513in.²)

6.2 Acoustic Data

- Coannular Configuration 2



$$A^o = 11.057 \text{ in.}^2$$

$$A_T = A^o + A^i = 22.407 \text{ in.}^2$$

| | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | |
|--------------------|----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. P.WL | |
| | | (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.) |
| NO EGA | 63 | | | | | | | | | | | | | | | |
| RD.G. NO. | 0. | | | | | | | | | | | | | | | |
| RADIAL | (12. M) | 75.1 | 84.2 | 81.7 | 83.2 | 84.3 | 84.2 | 84.3 | 85.0 | 85.7 | 86.0 | 85.7 | 86.0 | 91.7 | 91.6 | 94.2 |
| VEHICLE | CELL41 | 73.8 | 78.6 | 79.6 | 82.2 | 84.0 | 85.1 | 85.0 | 86.7 | 84.6 | 83.4 | 86.7 | 84.6 | 83.4 | 92.4 | 94.3 |
| CONFIG. | NC59 | 74.1 | 76.4 | 80.2 | 80.2 | 81.0 | 81.4 | 81.0 | 83.2 | 84.7 | 89.5 | 83.2 | 84.7 | 89.5 | 93.7 | 95.1 |
| LOC | C41 ANECH CH | 77.3 | 77.3 | 79.0 | 81.1 | 81.7 | 82.3 | 83.4 | 85.8 | 84.5 | 91.6 | 84.5 | 91.6 | 96.1 | 100.8 | 102.3 |
| DATE | C6-16-76 | 75.8 | 79.6 | 80.8 | 80.9 | 82.5 | 83.3 | 86.0 | 87.4 | 89.3 | 93.7 | 87.4 | 89.3 | 93.7 | 99.1 | 101.8 |
| RUN | CONF2HIGHFL | 77.7 | 81.7 | 80.2 | 83.2 | 85.8 | 85.9 | 86.8 | 89.2 | 91.7 | 95.5 | 101.0 | 104.9 | 105.7 | 108.8 | 105.7 |
| TAPE | X024CC | 80.0 | 81.8 | 82.8 | 83.6 | 85.2 | 86.8 | 87.9 | 90.6 | 93.0 | 97.8 | 103.5 | 106.2 | 106.2 | 107.8 | 106.2 |
| BAR | 29.4 HG | 81.4 | 82.9 | 83.9 | 85.2 | 87.0 | 88.1 | 89.5 | 92.2 | 95.1 | 99.7 | 104.4 | 107.6 | 107.4 | 107.4 | 107.4 |
| | (95246. N/M2) | 82.6 | 83.9 | 85.2 | 86.4 | 87.8 | 89.2 | 90.3 | 92.9 | 96.2 | 100.7 | 104.4 | 106.6 | 106.4 | 106.6 | 106.4 |
| TAMB | 67. DEG F | 84.5 | 86.0 | 87.2 | 87.8 | 88.6 | 90.0 | 91.1 | 94.3 | 96.2 | 100.8 | 103.0 | 103.9 | 105.0 | 105.0 | 105.0 |
| | (293. DEG K) | 83.8 | 85.6 | 87.6 | 87.6 | 88.7 | 90.3 | 92.0 | 94.4 | 97.1 | 100.4 | 101.9 | 102.5 | 102.8 | 102.8 | 102.8 |
| TMET | 62. DEG F | 84.6 | 86.7 | 86.9 | 86.7 | 89.8 | 91.7 | 92.3 | 94.0 | 97.7 | 100.3 | 100.7 | 100.4 | 100.2 | 100.2 | 100.2 |
| | (290. DEG K) | 84.4 | 85.5 | 87.5 | 88.3 | 89.3 | 90.5 | 92.6 | 94.5 | 97.5 | 99.8 | 99.5 | 97.9 | 97.2 | 97.2 | 97.2 |
| HACT | 12.93 GM/M3 | 84.8 | 86.1 | 87.6 | 88.1 | 89.5 | 90.6 | 92.2 | 94.9 | 97.6 | 97.9 | 97.6 | 96.0 | 94.6 | 94.6 | 94.6 |
| | (.C1293 KG/M3) | 85.5 | 86.8 | 88.1 | 88.8 | 90.4 | 91.0 | 92.4 | 94.8 | 97.8 | 98.4 | 98.4 | 96.6 | 94.3 | 93.3 | 93.3 |
| FREQ. | SHIFT | 85.6 | 87.1 | 87.6 | 89.5 | 91.1 | 92.2 | 94.6 | 96.3 | 97.2 | 95.1 | 93.0 | 91.6 | 91.6 | 91.6 | 91.6 |
| | 0 | 83.6 | 85.2 | 86.5 | 88.0 | 88.8 | 90.7 | 91.6 | 94.3 | 96.5 | 95.8 | 94.8 | 91.9 | 90.7 | 90.7 | 90.7 |
| JET | | 82.5 | 84.5 | 85.8 | 87.3 | 89.2 | 90.5 | 92.4 | 94.1 | 96.1 | 94.7 | 93.9 | 91.5 | 92.3 | 92.3 | 92.3 |
| DIAMETER RATIO | | 82.2 | 84.3 | 84.1 | 86.9 | 88.7 | 90.1 | 92.0 | 93.6 | 95.1 | 94.8 | 93.2 | 92.1 | 93.3 | 93.3 | 93.3 |
| DF/DM | 1 | 79.9 | 84.0 | 84.1 | 86.1 | 88.7 | 88.5 | 90.7 | 92.8 | 94.6 | 92.8 | 91.7 | 92.5 | 93.8 | 93.8 | 93.8 |
| | | 77.8 | 81.5 | 82.2 | 84.6 | 86.7 | 87.0 | 89.9 | 90.8 | 92.7 | 91.1 | 91.0 | 91.3 | 93.0 | 93.0 | 93.0 |
| | | 75.4 | 79.9 | 80.3 | 83.2 | 85.3 | 85.6 | 88.5 | 88.5 | 91.8 | 89.8 | 89.4 | 90.2 | 91.6 | 91.6 | 91.6 |
| | | 72.3 | 77.1 | 77.5 | 79.9 | 83.7 | 83.0 | 86.2 | 85.5 | 88.3 | 86.1 | 85.4 | 86.6 | 89.5 | 89.5 | 89.5 |
| | | 69.2 | 75.2 | 74.3 | 76.9 | 79.6 | 79.6 | 81.4 | 82.0 | 85.6 | 82.3 | 83.3 | 82.4 | 86.0 | 86.0 | 86.0 |
| | | 67.7 | 72.8 | 73.7 | 75.9 | 78.4 | 77.4 | 80.1 | 79.4 | 82.2 | 78.3 | 79.0 | 81.2 | 82.2 | 82.2 | 82.2 |
| | | 62.6 | 70.4 | 72.3 | 73.8 | 74.7 | 74.9 | 77.9 | 76.3 | 77.1 | 74.5 | 74.3 | 75.2 | 77.0 | 77.0 | 77.0 |
| | | 55.2 | 64.9 | 67.1 | 68.1 | 68.2 | 69.8 | 71.1 | 71.6 | 71.6 | 67.1 | 67.0 | 66.5 | 68.3 | 68.3 | 68.3 |
| | | 46.7 | 54.4 | 58.0 | 58.5 | 58.0 | 60.4 | 60.5 | 62.0 | 62.8 | 59.9 | 59.2 | 56.9 | 59.9 | 59.9 | 59.9 |
| | | 40.2 | 47.0 | 51.7 | 50.3 | 49.7 | 54.9 | 55.5 | 51.5 | 53.7 | 54.5 | 51.8 | 48.6 | 52.1 | 52.1 | 52.1 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 95.5 | 97.6 | 98.6 | 99.8 | 101.3 | 102.4 | 103.9 | 106.1 | 108.6 | 110.8 | 113.4 | 115.3 | 115.6 | 115.6 | 115.6 |
| PND8 | | 108.7 | 110.4 | 111.6 | 112.6 | 114.1 | 115.1 | 116.4 | 118.7 | 121.3 | 122.7 | 123.1 | 123.5 | 123.6 | 123.6 | 123.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 240 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

162 INTENTIONALLY BLANK

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 77.9 | 31.7 | 32.9 | 83.0 | 84.6 | 85.4 | 88.1 | 89.5 | 91.4 | 95.8 | 101.2 | 103.9 | 105.4 | 149.5 | 151.9 | 153.3 | 154.2 |
| 63 | 79.8 | 83.8 | 82.3 | 85.3 | 87.9 | 88.0 | 88.9 | 91.3 | 93.8 | 97.6 | 103.1 | 107.0 | 107.6 | 154.6 | 154.7 | 154.7 | 154.7 |
| 80 | 81.3 | 83.8 | 85.8 | 85.6 | 87.5 | 88.3 | 89.2 | 92.6 | 95.1 | 99.9 | 105.6 | 108.3 | 108.3 | 154.6 | 154.7 | 154.7 | 154.7 |
| 100 | 82.1 | 83.9 | 84.9 | 85.7 | 87.3 | 88.9 | 90.0 | 92.7 | 95.9 | 101.2 | 106.4 | 109.4 | 108.9 | 154.6 | 154.7 | 154.7 | 154.7 |
| 125 | 83.5 | 85.0 | 86.0 | 87.3 | 89.1 | 90.3 | 91.6 | 94.3 | 97.3 | 101.8 | 106.5 | 109.7 | 109.5 | 154.6 | 154.7 | 154.7 | 154.7 |
| 160 | 84.7 | 86.0 | 87.3 | 88.6 | 89.9 | 91.3 | 92.4 | 95.1 | 98.3 | 102.9 | 106.6 | 108.7 | 108.5 | 154.6 | 154.7 | 154.7 | 154.7 |
| 200 | 86.6 | 88.1 | 89.4 | 89.9 | 90.7 | 92.1 | 93.2 | 96.4 | 98.4 | 102.9 | 105.1 | 107.1 | 107.1 | 154.6 | 154.7 | 154.7 | 154.7 |
| 250 | 85.9 | 87.7 | 89.7 | 89.7 | 90.2 | 92.4 | 94.1 | 96.5 | 99.2 | 102.5 | 104.0 | 104.7 | 104.9 | 154.6 | 154.7 | 154.7 | 154.7 |
| 315 | 85.8 | 88.8 | 89.1 | 90.9 | 91.9 | 93.8 | 94.4 | 96.1 | 99.8 | 102.4 | 102.8 | 102.5 | 102.3 | 154.6 | 154.7 | 154.7 | 154.7 |
| 400 | 86.6 | 87.6 | 89.6 | 92.4 | 91.5 | 92.6 | 94.7 | 96.7 | 99.6 | 101.9 | 101.7 | 100.1 | 99.4 | 154.6 | 154.7 | 154.7 | 154.7 |
| 500 | 86.9 | 88.2 | 89.7 | 90.3 | 91.6 | 92.7 | 94.4 | 97.0 | 99.7 | 100.1 | 99.8 | 98.2 | 96.7 | 154.6 | 154.7 | 154.7 | 154.7 |
| 630 | 87.7 | 89.0 | 90.3 | 91.0 | 92.6 | 93.2 | 94.6 | 97.0 | 100.0 | 100.6 | 98.8 | 96.5 | 95.5 | 154.6 | 154.7 | 154.7 | 154.7 |
| 800 | 86.8 | 87.8 | 89.3 | 89.9 | 91.7 | 93.3 | 94.4 | 96.9 | 98.6 | 99.4 | 97.4 | 95.3 | 93.8 | 154.6 | 154.7 | 154.7 | 154.7 |
| 1000 | 85.9 | 87.4 | 88.7 | 90.2 | 91.1 | 92.9 | 93.8 | 96.5 | 98.7 | 98.1 | 97.0 | 94.2 | 92.9 | 154.6 | 154.7 | 154.7 | 154.7 |
| 1250 | 84.8 | 86.9 | 88.2 | 89.7 | 91.5 | 92.9 | 94.8 | 96.4 | 98.4 | 97.0 | 96.2 | 93.9 | 94.6 | 154.6 | 154.7 | 154.7 | 154.7 |
| 1600 | 84.7 | 86.8 | 86.6 | 89.4 | 91.2 | 92.6 | 94.5 | 96.1 | 97.6 | 97.3 | 95.7 | 94.6 | 95.8 | 154.6 | 154.7 | 154.7 | 154.7 |
| 2000 | 82.6 | 85.7 | 85.8 | 88.8 | 91.4 | 91.2 | 93.4 | 95.6 | 97.3 | 95.5 | 94.4 | 96.5 | 96.5 | 154.6 | 154.7 | 154.7 | 154.7 |
| 2500 | 80.9 | 84.6 | 85.2 | 87.7 | 89.8 | 90.1 | 93.0 | 93.9 | 95.7 | 94.2 | 94.1 | 94.4 | 96.1 | 154.6 | 154.7 | 154.7 | 154.7 |
| 3150 | 79.0 | 83.5 | 84.0 | 86.9 | 88.9 | 89.3 | 92.2 | 92.2 | 95.5 | 93.4 | 93.1 | 93.8 | 95.3 | 154.6 | 154.7 | 154.7 | 154.7 |
| 4000 | 76.7 | 81.5 | 81.8 | 84.2 | 88.0 | 87.3 | 90.5 | 89.8 | 92.6 | 90.4 | 89.8 | 91.0 | 93.8 | 154.6 | 154.7 | 154.7 | 154.7 |
| 5000 | 74.8 | 80.8 | 80.0 | 82.5 | 85.2 | 85.2 | 87.0 | 87.6 | 91.2 | 87.9 | 88.9 | 88.0 | 91.6 | 154.6 | 154.7 | 154.7 | 154.7 |
| 6300 | 74.9 | 80.0 | 80.9 | 83.1 | 85.6 | 84.6 | 87.3 | 86.6 | 89.5 | 85.5 | 86.2 | 88.4 | 89.4 | 154.6 | 154.7 | 154.7 | 154.7 |
| 8000 | 72.2 | 80.0 | 81.9 | 83.4 | 84.2 | 84.5 | 87.5 | 85.9 | 86.6 | 84.0 | 83.8 | 84.7 | 86.5 | 154.6 | 154.7 | 154.7 | 154.7 |
| 10000 | 67.8 | 77.5 | 79.7 | 80.7 | 80.8 | 82.4 | 83.7 | 84.1 | 84.2 | 79.7 | 79.6 | 79.1 | 80.9 | 154.6 | 154.7 | 154.7 | 154.7 |
| 12500 | 63.7 | 74.5 | 75.1 | 75.5 | 75.0 | 77.5 | 77.5 | 79.1 | 79.9 | 77.0 | 76.3 | 74.0 | 77.0 | 154.6 | 154.7 | 154.7 | 154.7 |
| 16000 | 63.6 | 70.4 | 75.1 | 73.7 | 73.1 | 78.3 | 78.9 | 76.9 | 77.1 | 77.9 | 75.2 | 72.0 | 75.5 | 154.6 | 154.7 | 154.7 | 154.7 |
| PNDS | 106.9 | 110.3 | 111.1 | 113.0 | 114.9 | 115.5 | 117.7 | 118.9 | 121.4 | 121.1 | 121.5 | 122.0 | 122.9 | 154.6 | 154.7 | 154.7 | 154.7 |

NO. EGA
 RADIUS 150. FT.
 VEHICLE CELL 41
 LOC C41 ANECHO CH
 DATE 06-10-76
 RUN CONFHIGHFLW
 TAPE X02400
 BAR 29.4.15
 (99246. N/M2)
 TAMB 67. DEG F
 (293. DEG K)
 TWET 62. DEG F
 (290. DEG K)
 MACT12.93 SM/M3
 (.01293 KG/M3)
 FREQ. SHIFT
 JET 7
 DIAMETER RATIO
 DF/DH 6.78

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 240 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 15.3

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | | |
|----------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 63. | 80. | 100. | 125. | 160. | 200. | 250. | 315. | 400. | | | | | | | |
| NO EGA | 49.7 | 55.1 | 57.4 | 58.2 | 60.2 | 61.2 | 61.5 | 62.7 | 64.7 | 65.9 | 69.2 | 73.0 | 73.5 | 71.0 | 130. | 140. | 150. | 160. |
| SIDELINE 2400. FT. | 51.5 | 57.1 | 56.7 | 60.5 | 63.5 | 63.8 | 64.5 | 66.5 | 68.2 | 70.9 | 74.8 | 76.5 | 73.8 | 74.9 | 77.8 | 77.6 | 73.5 | 74.9 |
| (731.52 M) | 53.7 | 57.1 | 60.2 | 60.7 | 63.0 | 64.0 | 64.7 | 67.7 | 69.4 | 72.3 | 75.7 | 76.2 | 74.6 | 71.7 | 72.9 | 75.1 | 74.8 | 72.9 |
| VFA (1. RPM) | 54.7 | 58.1 | 59.2 | 62.7 | 64.5 | 65.5 | 67.7 | 70.2 | 74.4 | 78.0 | 78.6 | 74.5 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 |
| (0. RAD/SEC) | 56.0 | 58.9 | 61.3 | 63.4 | 65.2 | 66.7 | 69.2 | 71.5 | 74.9 | 78.0 | 78.8 | 74.9 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 |
| VFK (1. RPM) | 57.6 | 60.8 | 63.3 | 64.6 | 65.9 | 67.4 | 68.4 | 71.1 | 72.3 | 75.7 | 76.2 | 74.6 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 |
| (0. RAD/SEC) | 56.7 | 60.2 | 63.4 | 64.3 | 65.8 | 67.6 | 69.0 | 71.0 | 72.9 | 75.1 | 74.8 | 72.9 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 |
| VFD (7500. RPM) | 57.2 | 61.1 | 62.5 | 65.1 | 66.7 | 68.7 | 69.2 | 70.4 | 73.3 | 74.6 | 73.3 | 70.3 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 |
| (785. RAD/SEC) | 56.6 | 59.5 | 62.8 | 64.4 | 66.0 | 67.2 | 69.2 | 70.6 | 72.8 | 73.8 | 71.7 | 67.3 | 52.0 | 52.0 | 52.0 | 52.0 | 52.0 | 52.0 |
| AIRFLOW RATIO | 56.4 | 59.7 | 62.5 | 64.2 | 66.3 | 67.1 | 68.3 | 70.2 | 72.3 | 71.5 | 69.3 | 64.7 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 |
| WF/WH 6.78 | 56.5 | 59.9 | 62.5 | 64.2 | 66.3 | 67.1 | 68.3 | 70.2 | 72.3 | 71.5 | 69.3 | 64.7 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 |
| VEHICLE CELL41 | 54.6 | 57.9 | 59.9 | 62.4 | 64.8 | 66.6 | 67.6 | 69.4 | 70.2 | 69.5 | 65.3 | 59.7 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| CONFIG MC59 | 52.7 | 56.7 | 59.5 | 62.1 | 63.5 | 65.6 | 66.3 | 68.3 | 69.5 | 67.3 | 63.8 | 57.2 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 |
| -OC C41 ANECH CH | 50.3 | 55.0 | 58.0 | 60.6 | 63.1 | 64.6 | 66.3 | 67.4 | 68.2 | 65.1 | 61.7 | 55.2 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 |
| DATE 06-18-76 | 48.3 | 53.3 | 55.0 | 59.0 | 61.5 | 63.1 | 64.8 | 65.8 | 66.0 | 63.7 | 59.2 | 53.4 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 |
| RUN CONF2HIGHLW | 43.8 | 51.3 | 53.5 | 56.9 | 60.2 | 60.3 | 62.2 | 63.7 | 64.0 | 60.0 | 55.6 | 51.0 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| TAPE XD2400 | 38.7 | 46.4 | 49.5 | 53.5 | 56.5 | 57.1 | 59.7 | 60.0 | 60.0 | 55.9 | 51.9 | 45.8 | 35.4 | 35.4 | 35.4 | 35.4 | 35.4 | 35.4 |
| FAN TIP SPEED | 31.5 | 40.8 | 44.3 | 49.1 | 52.2 | 52.9 | 55.4 | 54.4 | 55.8 | 50.7 | 45.5 | 38.5 | 24.3 | 24.3 | 24.3 | 24.3 | 24.3 | 24.3 |
| FT/SEC | 21.0 | 32.0 | 36.3 | 41.0 | 46.1 | 46.1 | 48.6 | 46.6 | 47.0 | 40.9 | 34.1 | 24.9 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 4000 | 14.5 | 27.5 | 30.9 | 36.2 | 40.4 | 40.8 | 42.1 | 41.3 | 42.2 | 34.5 | 28.6 | 15.9 | | | | | | |
| 6300 | 0.9 | 15.2 | 21.9 | 27.6 | 32.0 | 31.5 | 33.6 | 31.1 | 30.4 | 20.7 | 12.2 | | | | | | | |
| 8000 | | | 7.4 | 13.7 | 17.1 | 18.2 | 20.3 | 16.1 | 12.1 | 1.7 | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | |
| OVERALL - CALCULATED | 67.0 | 70.6 | 73.1 | 74.9 | 76.8 | 78.2 | 79.5 | 81.3 | 83.2 | 84.9 | 86.2 | 86.0 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 |
| PROB | 70.9 | 75.3 | 78.2 | 80.6 | 83.3 | 84.4 | 86.0 | 87.3 | 88.7 | 88.9 | 88.0 | 86.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2 V6 ACoustic RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 30 HR. 15.1
ANGLES FROM INLET IN DEGREES (AND RADIANs)

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PUL
FREQ. (C.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)(3.2)(3.4)(3.6)

| RDS. NO. | NO EGA | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 3. | 9. | 30. | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RADIAL (12. M) | 63 | 78.6 | 87.2 | 84.4 | 85.7 | 87.8 | 87.2 | 88.0 | 88.5 | 89.4 | 90.5 | 94.2 | 95.1 | 97.9 | 132.2 |
| VEHICLE | 80 | 77.1 | 81.4 | 83.1 | 85.7 | 87.2 | 88.4 | 88.7 | 89.9 | 87.9 | 86.9 | 85.4 | 98.3 | 99.4 | 133.2 |
| CONFIG CELL41 | 100 | 76.9 | 79.4 | 83.7 | 83.2 | 84.0 | 84.2 | 84.0 | 86.2 | 87.9 | 93.0 | 96.9 | 99.1 | 101.4 | 136.0 |
| LOC C41 ANECH CH | 200 | 80.0 | 80.0 | 81.5 | 83.8 | 84.7 | 85.3 | 86.2 | 89.1 | 91.8 | 95.1 | 99.6 | 104.5 | 106.0 | 138.0 |
| DATE 06-16-78 | 250 | 78.8 | 82.8 | 84.3 | 83.9 | 85.5 | 86.6 | 89.5 | 91.4 | 92.6 | 97.2 | 103.9 | 106.5 | 107.8 | 140.4 |
| RUN CONF2HIGHFLB | 315 | 80.2 | 85.7 | 83.4 | 86.2 | 88.8 | 89.4 | 89.8 | 92.2 | 94.9 | 99.3 | 105.5 | 109.6 | 110.4 | 142.9 |
| TAPE X0241C | 400 | 82.4 | 84.7 | 86.7 | 86.5 | 87.8 | 89.2 | 90.1 | 93.5 | 96.2 | 101.8 | 108.0 | 111.4 | 111.5 | 144.6 |
| BAR 29.6 HG | 500 | 83.3 | 84.0 | 85.5 | 86.8 | 88.4 | 90.3 | 91.2 | 93.6 | 96.5 | 103.9 | 109.8 | 112.5 | 111.3 | 145.6 |
| (99414. N/M2) | 630 | 84.4 | 85.1 | 86.9 | 88.2 | 90.0 | 90.6 | 92.5 | 95.4 | 98.4 | 104.0 | 109.9 | 113.3 | 111.6 | 146.1 |
| TAMB 65. DEG F | 800 | 86.9 | 87.4 | 88.2 | 89.9 | 91.0 | 92.2 | 93.3 | 96.4 | 100.2 | 104.7 | 111.4 | 114.4 | 112.9 | 147.3 |
| (291. DEG K) | 1000 | 88.5 | 90.3 | 91.6 | 91.5 | 92.6 | 93.7 | 94.9 | 97.5 | 100.0 | 104.8 | 110.5 | 112.9 | 112.7 | 148.6 |
| TWET 60. DEG F | 1250 | 88.6 | 90.7 | 90.4 | 92.0 | 93.2 | 94.6 | 96.0 | 98.6 | 100.6 | 104.9 | 108.6 | 113.3 | 112.3 | 149.3 |
| (289. DEG K) | 1600 | 88.6 | 90.7 | 90.4 | 92.0 | 93.3 | 94.9 | 95.8 | 97.7 | 101.4 | 105.3 | 107.5 | 111.6 | 111.4 | 149.4 |
| HACT12.00 GM/M3 | 2000 | 91.9 | 91.7 | 92.7 | 92.3 | 93.3 | 94.0 | 96.1 | 98.8 | 101.2 | 104.6 | 105.8 | 109.7 | 109.0 | 144.0 |
| (.01200 KG/M3) | 2500 | 97.8 | 95.8 | 94.1 | 93.1 | 94.0 | 94.6 | 95.7 | 98.6 | 101.3 | 102.9 | 104.1 | 106.8 | 106.3 | 142.5 |
| FREQ. SHIFT | 3150 | 99.2 | 98.8 | 98.6 | 97.6 | 96.2 | 94.8 | 95.9 | 99.3 | 102.1 | 103.4 | 103.1 | 105.5 | 104.3 | 142.8 |
| JET | 4000 | 97.3 | 97.1 | 97.8 | 97.9 | 97.7 | 96.3 | 95.7 | 99.4 | 100.8 | 102.2 | 101.1 | 102.8 | 101.3 | 141.7 |
| DIAMETER RATIO | 5000 | 96.1 | 96.4 | 97.0 | 97.5 | 97.8 | 97.9 | 97.3 | 98.8 | 100.5 | 100.8 | 100.3 | 101.4 | 101.2 | 141.3 |
| DP/DM 1 | 6300 | 94.0 | 94.8 | 95.8 | 96.1 | 97.2 | 98.0 | 98.9 | 98.8 | 100.6 | 100.2 | 99.1 | 101.5 | 101.5 | 141.1 |
| | 8000 | 92.0 | 92.8 | 93.7 | 95.4 | 96.7 | 97.1 | 98.7 | 99.4 | 100.9 | 100.0 | 98.7 | 101.3 | 101.6 | 141.1 |
| | 10000 | 88.9 | 91.3 | 92.1 | 93.9 | 95.7 | 95.5 | 97.4 | 99.4 | 100.4 | 98.8 | 97.4 | 102.3 | 101.5 | 140.8 |
| | 12500 | 86.6 | 88.6 | 89.7 | 91.4 | 93.5 | 94.1 | 96.2 | 97.1 | 98.5 | 97.2 | 96.5 | 100.4 | 100.1 | 139.4 |
| | 16000 | 83.7 | 86.9 | 87.9 | 90.1 | 91.8 | 92.2 | 94.8 | 94.6 | 98.1 | 94.9 | 95.0 | 99.3 | 99.7 | 138.9 |
| | 20000 | 80.2 | 83.2 | 85.4 | 87.0 | 90.5 | 89.6 | 93.2 | 91.8 | 94.6 | 92.2 | 91.5 | 96.0 | 96.6 | 137.1 |
| | 25000 | 76.8 | 80.8 | 81.7 | 84.0 | 86.2 | 86.5 | 87.2 | 88.7 | 91.3 | 88.4 | 89.5 | 91.0 | 93.1 | 134.8 |
| | 31500 | 74.6 | 78.7 | 81.4 | 83.3 | 85.9 | 85.1 | 86.5 | 85.9 | 87.7 | 84.6 | 85.2 | 90.9 | 90.3 | 134.9 |
| | 40000 | 69.8 | 75.2 | 78.6 | 80.6 | 82.6 | 83.4 | 84.4 | 82.8 | 83.6 | 81.3 | 81.1 | 86.2 | 85.9 | 134.8 |
| | 50000 | 63.2 | 69.2 | 72.9 | 75.2 | 76.0 | 78.1 | 79.1 | 78.5 | 75.0 | 74.6 | 78.6 | 77.9 | 77.9 | 133.2 |
| | 63000 | 55.5 | 61.3 | 65.9 | 65.9 | 65.8 | 68.0 | 67.8 | 69.9 | 71.0 | 68.1 | 67.4 | 70.3 | 69.8 | 130.7 |
| | 80000 | 49.8 | 55.2 | 60.9 | 59.0 | 58.4 | 59.8 | 60.7 | 59.9 | 62.2 | 60.3 | 60.0 | 63.3 | 64.8 | 132.5 |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 105.5 | 105.6 | 106.0 | 106.4 | 107.2 | 107.5 | 108.6 | 110.5 | 112.8 | 115.4 | 119.3 | 122.6 | 122.0 | 156.9 |
| PNDB | | 119.6 | 119.7 | 119.9 | 119.8 | 120.2 | 120.2 | 120.8 | 123.1 | 125.4 | 127.5 | 129.1 | 132.3 | 131.9 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2
TEST POINT 2Y1
ACOUSTIC RANGE 12.2m(40ft.) ARC
SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| ROG. NO. | NO. 50 | 60 | 70 | 80 | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | O. (G.) | O. (G.) | O. (G.) | PWL | | | | | |
|--------------------|--------|-------|-------|-------|---|-------|-------|---------|---------|---------|-------|-------|-------|-------|-------|-------|
| | | | | | 120 | 130 | 140 | | | | | 150 | 160 | | | |
| 50 | 80.9 | 84.9 | 86.4 | 87.6 | 88.7 | 89.5 | 90.7 | 91.6 | 92.5 | 93.5 | 94.7 | 95.3 | 96.0 | 108.7 | 109.9 | 154.0 |
| 63 | 82.3 | 87.8 | 85.5 | 88.3 | 90.9 | 91.5 | 92.9 | 94.3 | 95.7 | 97.0 | 98.3 | 101.4 | 107.6 | 111.8 | 112.5 | 156.5 |
| 90 | 84.5 | 85.8 | 88.8 | 88.6 | 90.0 | 91.3 | 92.2 | 95.6 | 93.0 | 93.0 | 103.9 | 110.1 | 113.5 | 113.6 | 158.2 | |
| 100 | 85.4 | 86.2 | 87.7 | 88.9 | 90.5 | 92.4 | 93.3 | 95.7 | 98.7 | 106.0 | 111.9 | 114.6 | 113.4 | 159.2 | | |
| 125 | 86.5 | 88.3 | 89.0 | 90.3 | 92.1 | 92.8 | 94.6 | 97.5 | 100.5 | 106.1 | 112.0 | 115.5 | 113.8 | 159.7 | | |
| 200 | 92.3 | 93.1 | 93.6 | 93.6 | 94.7 | 95.9 | 97.0 | 99.6 | 102.3 | 106.8 | 113.6 | 116.5 | 115.0 | 160.9 | | |
| 250 | 90.7 | 92.4 | 93.7 | 93.7 | 95.3 | 96.7 | 98.1 | 100.7 | 102.7 | 107.0 | 110.7 | 115.4 | 114.4 | 160.2 | | |
| 315 | 90.8 | 92.8 | 92.6 | 94.1 | 95.4 | 97.1 | 97.9 | 99.8 | 103.6 | 107.4 | 109.6 | 113.8 | 113.6 | 159.9 | | |
| 400 | 94.1 | 93.9 | 94.9 | 94.4 | 95.5 | 96.1 | 98.2 | 100.9 | 103.4 | 106.7 | 107.9 | 111.8 | 111.1 | 159.0 | | |
| 500 | 99.9 | 98.0 | 96.2 | 95.3 | 96.1 | 96.7 | 97.9 | 100.8 | 103.5 | 105.1 | 106.3 | 108.9 | 108.5 | 157.6 | | |
| 600 | 101.4 | 101.0 | 100.1 | 100.1 | 99.9 | 98.6 | 97.9 | 101.6 | 103.1 | 104.4 | 103.4 | 105.0 | 103.6 | 156.4 | | |
| 800 | 99.5 | 99.3 | 100.1 | 100.1 | 99.9 | 98.6 | 97.9 | 101.6 | 103.1 | 104.4 | 103.4 | 105.0 | 103.6 | 155.3 | | |
| 1000 | 98.4 | 98.7 | 99.2 | 99.8 | 100.1 | 100.2 | 99.6 | 101.0 | 102.7 | 103.1 | 102.5 | 103.7 | 103.4 | 154.9 | | |
| 1250 | 96.3 | 97.1 | 98.2 | 98.4 | 99.5 | 100.4 | 101.3 | 101.2 | 102.9 | 102.5 | 101.5 | 103.9 | 103.9 | 154.7 | | |
| 1600 | 94.5 | 95.3 | 96.2 | 97.9 | 99.2 | 99.6 | 101.2 | 101.9 | 103.4 | 102.5 | 101.2 | 103.8 | 104.1 | 154.3 | | |
| 2000 | 91.6 | 94.0 | 94.9 | 96.6 | 98.4 | 98.3 | 100.2 | 102.1 | 103.1 | 101.5 | 100.2 | 105.0 | 104.3 | 153.0 | | |
| 2500 | 89.6 | 91.7 | 92.8 | 94.5 | 96.6 | 97.2 | 98.3 | 100.1 | 101.5 | 100.2 | 99.6 | 103.4 | 103.2 | 152.5 | | |
| 3150 | 87.3 | 90.6 | 91.5 | 93.7 | 95.5 | 95.8 | 98.5 | 98.2 | 101.8 | 98.5 | 98.6 | 102.9 | 103.3 | 150.7 | | |
| 4000 | 84.5 | 87.6 | 89.7 | 91.3 | 94.8 | 93.9 | 97.6 | 96.1 | 99.0 | 96.5 | 95.9 | 100.3 | 100.9 | 148.4 | | |
| 5000 | 82.4 | 86.4 | 87.6 | 89.6 | 91.9 | 92.9 | 94.3 | 96.9 | 94.0 | 95.1 | 96.6 | 98.7 | 98.7 | 148.5 | | |
| 6300 | 81.8 | 85.9 | 88.5 | 90.6 | 93.1 | 92.3 | 93.7 | 93.1 | 94.9 | 91.8 | 92.5 | 98.1 | 97.5 | 146.8 | | |
| 8000 | 79.3 | 84.7 | 88.1 | 90.1 | 92.2 | 93.0 | 93.9 | 92.4 | 93.2 | 90.8 | 90.6 | 95.7 | 95.5 | 144.3 | | |
| 10000 | 75.8 | 81.7 | 85.5 | 87.8 | 89.6 | 90.7 | 91.7 | 90.7 | 91.0 | 87.6 | 87.2 | 91.2 | 90.5 | 146.1 | | |
| 12500 | 72.5 | 78.3 | 82.8 | 82.9 | 82.9 | 85.1 | 86.9 | 86.9 | 88.0 | 85.2 | 84.5 | 87.4 | 86.8 | 146.1 | | |
| 16000 | 73.2 | 78.6 | 84.3 | 82.4 | 81.8 | 83.2 | 84.1 | 83.3 | 85.6 | 83.7 | 83.4 | 86.7 | 88.2 | 170.4 | | |
| OVERALL CALCULATED | 107.7 | 107.9 | 108.4 | 108.8 | 109.7 | 110.0 | 111.2 | 112.9 | 115.2 | 117.6 | 121.4 | 124.7 | 124.0 | | | |
| PWDR | 116.3 | 117.5 | 118.4 | 119.7 | 121.2 | 121.6 | 123.4 | 124.4 | 126.7 | 126.4 | 127.5 | 131.0 | 130.9 | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/1 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO. FEA | SIDELINE 2400 FT.
(731.52 m) | NFA
(1. RPM) | VFK
(1. RPM) | NFD
(7500 RPM) | AIPFLOW RATIO
WF/WM 4.78 | VEHICLE
CELL41 | CONFIG
NCS9 | LOC
C41 ANECH CH | DATE
08-16-76 | FUN
CONF2HIGHFLW | TAPE
K024T0 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | |
|--------------------|---------------------------------|-----------------|-----------------|-------------------|-----------------------------|--------------------------------|--------------------------------|-------------------------|------------------|---------------------|----------------|-------------------------|---|------|------|------|------|------|------|
| | | | | | | | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. |
| 50 | 52.7 | 58.3 | 53.9 | 61.2 | 63.2 | (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.) | (0.) | (0.) | 68.7 | 69.2 | 72.7 | 77.8 | 78.2 | 76.1 |
| 63 | 54.0 | 61.1 | 50.0 | 63.5 | 66.5 | 67.3 | 67.5 | 69.5 | 71.5 | 74.7 | 79.3 | 81.2 | 78.5 | 72.7 | 72.7 | 77.2 | 81.8 | 82.9 | 79.4 |
| 99 | 56.2 | 60.1 | 63.2 | 63.7 | 65.5 | 67.0 | 67.7 | 70.7 | 72.7 | 77.2 | 81.8 | 82.9 | 79.4 | 72.7 | 72.7 | 79.2 | 83.5 | 83.8 | 79.0 |
| 103 | 56.9 | 59.3 | 61.9 | 64.0 | 67.0 | 68.0 | 68.7 | 70.7 | 72.5 | 74.7 | 79.1 | 83.5 | 79.1 | 74.7 | 79.1 | 83.5 | 84.5 | 79.1 | |
| 125 | 57.9 | 61.3 | 63.2 | 65.2 | 67.5 | 68.3 | 70.7 | 73.4 | 76.3 | 79.8 | 84.8 | 85.3 | 80.0 | 73.4 | 76.3 | 79.8 | 84.8 | 85.3 | 80.0 |
| 160 | 60.3 | 62.4 | 64.3 | 66.9 | 68.4 | 69.7 | 70.7 | 73.4 | 76.3 | 79.8 | 84.8 | 85.3 | 80.0 | 73.4 | 76.3 | 79.8 | 84.8 | 85.3 | 80.0 |
| 200 | 63.4 | 65.8 | 67.5 | 69.9 | 71.1 | 72.1 | 74.3 | 76.0 | 79.7 | 83.7 | 83.6 | 79.5 | | 76.0 | 79.7 | 83.7 | 83.6 | 79.5 | |
| 250 | 61.5 | 65.0 | 67.4 | 68.2 | 70.3 | 71.8 | 73.0 | 75.2 | 79.6 | 81.5 | 83.6 | 78.6 | | 75.4 | 79.6 | 81.5 | 83.6 | 78.6 | |
| 315 | 61.2 | 65.1 | 65.0 | 68.4 | 70.2 | 72.0 | 72.7 | 74.1 | 77.0 | 79.6 | 80.0 | 81.6 | 77.0 | 76.5 | 78.6 | 77.9 | 79.0 | 73.7 | |
| 400 | 64.1 | 69.4 | 69.4 | 68.4 | 70.0 | 70.7 | 72.7 | 74.9 | 76.5 | 78.6 | 77.9 | 79.0 | 73.7 | 76.5 | 78.6 | 77.9 | 79.0 | 73.7 | |
| 500 | 69.4 | 69.4 | 69.4 | 68.9 | 70.2 | 71.0 | 72.0 | 74.4 | 76.3 | 76.5 | 75.8 | 75.5 | 70.1 | 76.5 | 76.5 | 74.1 | 73.3 | 66.8 | |
| 600 | 70.2 | 71.8 | 73.0 | 73.0 | 72.1 | 70.8 | 71.8 | 74.7 | 76.5 | 76.5 | 74.1 | 73.3 | 66.8 | 76.5 | 76.5 | 74.1 | 73.3 | 66.8 | |
| 800 | 67.4 | 69.4 | 71.7 | 72.7 | 73.1 | 71.8 | 71.1 | 74.2 | 76.7 | 74.5 | 71.3 | 69.5 | 62.1 | 76.7 | 74.5 | 71.3 | 69.5 | 62.1 | |
| 1000 | 65.2 | 67.9 | 70.0 | 71.6 | 72.5 | 72.8 | 72.0 | 72.8 | 73.5 | 72.3 | 69.3 | 66.7 | 60.0 | 73.5 | 72.3 | 69.3 | 66.7 | 60.0 | |
| 1250 | 61.8 | 65.2 | 68.0 | 69.4 | 71.1 | 72.1 | 72.8 | 72.1 | 72.7 | 70.6 | 66.9 | 65.2 | 57.8 | 72.7 | 70.6 | 66.9 | 65.2 | 57.8 | |
| 1600 | 58.0 | 61.8 | 64.6 | 67.5 | 69.5 | 70.1 | 71.5 | 71.5 | 71.5 | 69.0 | 64.7 | 62.6 | 54.3 | 71.5 | 69.0 | 64.7 | 62.6 | 54.3 | |
| 2000 | 52.8 | 58.6 | 61.6 | 64.7 | 67.3 | 67.4 | 69.0 | 70.2 | 69.8 | 66.1 | 61.4 | 60.8 | 50.0 | 70.2 | 69.8 | 66.1 | 61.4 | 60.8 | 50.0 |
| 2500 | 47.5 | 53.4 | 57.0 | 60.3 | 63.3 | 64.1 | 66.0 | 66.0 | 65.8 | 62.0 | 57.5 | 54.9 | 42.5 | 66.0 | 65.8 | 62.0 | 57.5 | 54.9 | 42.5 |
| 3150 | 39.8 | 47.5 | 51.5 | 55.9 | 58.7 | 59.4 | 61.7 | 60.5 | 62.1 | 55.8 | 51.1 | 47.3 | 32.3 | 59.4 | 58.7 | 55.8 | 51.1 | 47.3 | 32.3 |
| 4000 | 28.9 | 38.1 | 44.1 | 48.1 | 52.9 | 52.4 | 53.7 | 52.9 | 53.4 | 47.1 | 40.3 | 34.3 | 14.5 | 48.1 | 47.9 | 40.3 | 34.3 | 14.5 | |
| 5000 | 22.1 | 33.1 | 38.3 | 43.3 | 47.0 | 47.7 | 48.0 | 47.9 | 47.9 | 40.7 | 34.8 | 24.5 | 3.3 | 47.0 | 47.9 | 40.7 | 34.8 | 24.5 | 3.3 |
| 6000 | 7.7 | 21.1 | 29.6 | 35.0 | 39.4 | 39.2 | 40.1 | 37.5 | 35.8 | 27.0 | 18.4 | 8.1 | | 37.5 | 35.8 | 27.0 | 18.4 | 8.1 | |
| 10000 | 2.4 | 13.6 | 20.4 | 25.1 | 26.7 | 26.8 | 22.6 | 18.6 | 8.5 | | | | | 26.7 | 26.8 | 22.6 | 18.6 | 8.5 | |
| 12500 | | | | 2.7 | 5.9 | 5.9 | 1.2 | | | | | | | 5.9 | 5.8 | 1.2 | | | |
| 16000 | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 76.1 | 78.2 | 79.8 | 80.9 | 82.1 | 82.7 | 83.6 | 85.4 | 87.0 | 89.4 | 92.2 | 93.1 | 88.5 | 87.0 | 89.4 | 92.2 | 93.1 | 88.5 | |
| PMS | 81.7 | 84.4 | 85.4 | 87.8 | 89.7 | 90.3 | 91.5 | 92.6 | 93.3 | 93.8 | 94.6 | 94.9 | 89.3 | 93.3 | 93.8 | 94.6 | 94.9 | 89.3 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT 241

2

ACOUSTIC RANGE

731.5m(2400ft.) SIDELINE

SIZE

FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 15.1
 MODEL SOUND PRESSURE LEVELS (SP. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

MODEL SOUND PRESSURE LEVELS (SP. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANS)
 FREQ. (C-70) (C-87) (1-65) (1-22) (1-40) (1-57) (1-75) (1-92) (2-09) (2-27) (2-44) (2-62) (2-79) (C-0) (C-3) (C-6) (C-9)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200.

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 100 | 80 | 95.9 | 89.4 | 87.4 | 89.0 | 90.3 | 89.7 | 90.3 | 91.0 | 91.7 | 92.7 | 96.9 | 97.9 | 100.4 | 135.3 | | | |
| 125 | 80 | 94.3 | 84.6 | 85.9 | 87.9 | 89.7 | 91.4 | 91.2 | 92.2 | 90.4 | 89.2 | 98.6 | 101.3 | 102.6 | 136.4 | | | |
| 160 | CELL41 | 97.1 | 82.7 | 86.9 | 86.0 | 86.8 | 87.4 | 87.0 | 89.2 | 90.2 | 94.7 | 99.4 | 101.9 | 104.7 | 137.2 | | | |
| 200 | NC59 | 96.0 | 83.0 | 85.5 | 87.1 | 87.2 | 88.3 | 89.4 | 92.3 | 94.8 | 97.4 | 102.3 | 107.5 | 109.5 | 141.3 | | | |
| 250 | C41 ANECH CH | 95.3 | 85.8 | 87.8 | 86.6 | 88.0 | 89.6 | 92.5 | 94.1 | 95.3 | 99.2 | 106.6 | 110.0 | 111.6 | 143.7 | | | |
| 315 | DATE 06-16-76 | 94.9 | 87.9 | 86.9 | 89.5 | 91.3 | 91.9 | 92.3 | 94.7 | 97.4 | 101.0 | 108.2 | 112.9 | 113.7 | 145.9 | | | |
| 400 | RUN CONF2HIGHFLW | 93.7 | 87.7 | 89.7 | 89.0 | 90.1 | 91.7 | 92.6 | 96.0 | 98.5 | 103.5 | 111.2 | 114.7 | 114.7 | 147.7 | | | |
| 500 | X02420 | 94.5 | 87.3 | 88.8 | 89.3 | 90.9 | 92.8 | 93.9 | 96.6 | 99.0 | 105.6 | 113.1 | 116.5 | 115.3 | 149.2 | | | |
| 630 | BAR 29.4 HS | 94.9 | 88.9 | 88.9 | 90.4 | 92.5 | 93.4 | 95.5 | 97.4 | 100.9 | 106.0 | 113.9 | 117.6 | 115.4 | 150.0 | | | |
| 800 | (99414. N/M2) | 95.6 | 90.7 | 91.7 | 93.2 | 93.8 | 94.9 | 96.3 | 98.4 | 102.4 | 107.2 | 114.9 | 118.4 | 116.2 | 150.9 | | | |
| 1000 | TAPB 62. DEG F | 97.4 | 95.0 | 95.2 | 94.8 | 95.9 | 96.7 | 97.4 | 100.0 | 102.2 | 107.6 | 114.5 | 117.7 | 116.0 | 150.6 | | | |
| 1250 | (290. DEG K) | 103.3 | 100.6 | 98.6 | 98.4 | 98.3 | 100.2 | 102.9 | 103.6 | 107.6 | 113.6 | 118.3 | 115.8 | | | | | |
| 1600 | TWET 58. DEG F | 111.6 | 108.2 | 105.9 | 102.5 | 98.6 | 98.9 | 99.1 | 100.7 | 104.2 | 108.0 | 112.2 | 116.6 | 114.4 | 150.9 | | | |
| 2000 | (287. DEG K) | 111.9 | 110.2 | 110.7 | 109.0 | 106.1 | 101.0 | 100.1 | 102.0 | 104.5 | 107.6 | 111.0 | 115.7 | 111.7 | 150.8 | | | |
| 2500 | HACT11.07 GM/M3 | 108.5 | 108.8 | 110.1 | 110.1 | 111.0 | 108.8 | 102.7 | 102.4 | 104.8 | 106.4 | 109.1 | 113.5 | 109.3 | 151.1 | | | |
| 3150 | (.01107 KG/M3) | 107.7 | 106.5 | 107.3 | 108.6 | 110.4 | 110.3 | 108.9 | 105.3 | 105.8 | 106.6 | 109.1 | 111.8 | 107.5 | 150.8 | | | |
| 4000 | FREQ. SHIFT | 106.0 | 105.1 | 106.1 | 105.4 | 106.0 | 107.3 | 108.7 | 109.1 | 105.8 | 106.2 | 106.9 | 109.3 | 105.3 | 149.4 | | | |
| 5000 | JET 0 | 104.4 | 104.5 | 105.5 | 106.3 | 106.1 | 106.2 | 106.6 | 110.3 | 108.5 | 105.6 | 105.5 | 107.9 | 105.0 | 149.3 | | | |
| 6300 | DIAMETER RATIO | 103.7 | 103.5 | 104.3 | 104.6 | 106.2 | 106.8 | 106.4 | 108.1 | 110.8 | 105.9 | 104.9 | 106.8 | 103.8 | 149.2 | | | |
| 8000 | DF/DM 1 | 102.5 | 102.6 | 102.9 | 104.2 | 105.7 | 105.6 | 106.7 | 106.9 | 110.4 | 107.0 | 104.5 | 106.1 | 103.3 | 148.9 | | | |
| 10000 | | 100.2 | 101.6 | 102.1 | 102.9 | 105.4 | 104.1 | 105.2 | 105.9 | 108.1 | 105.8 | 103.2 | 105.6 | 102.3 | 147.9 | | | |
| 12500 | | 97.6 | 98.9 | 100.3 | 101.5 | 103.0 | 103.1 | 104.3 | 103.6 | 104.5 | 103.0 | 101.3 | 103.4 | 101.1 | 146.2 | | | |
| 16000 | | 95.7 | 96.7 | 97.7 | 99.9 | 101.9 | 101.2 | 103.7 | 101.9 | 104.0 | 100.7 | 99.6 | 101.6 | 99.5 | 145.6 | | | |
| 20000 | | 92.7 | 93.1 | 95.2 | 96.1 | 100.6 | 99.4 | 101.3 | 98.9 | 100.5 | 97.3 | 95.6 | 98.8 | 97.4 | 144.0 | | | |
| 25000 | | 89.4 | 90.9 | 91.1 | 93.2 | 96.1 | 95.6 | 96.1 | 95.8 | 98.4 | 93.8 | 94.1 | 94.2 | 94.5 | 141.9 | | | |
| 31500 | | 87.2 | 88.4 | 89.9 | 91.5 | 94.3 | 93.7 | 95.7 | 93.8 | 95.1 | 90.8 | 90.4 | 94.0 | 92.0 | 142.1 | | | |
| 40000 | | 82.2 | 83.4 | 86.1 | 88.1 | 89.6 | 89.9 | 92.1 | 90.0 | 91.3 | 87.5 | 86.6 | 89.9 | 87.6 | 141.4 | | | |
| 50000 | | 77.4 | 77.1 | 80.7 | 81.7 | 82.3 | 83.1 | 83.6 | 83.1 | 85.0 | 81.6 | 80.6 | 82.3 | 81.4 | 138.8 | | | |
| 63000 | | 72.7 | 70.3 | 74.8 | 75.1 | 74.6 | 75.8 | 75.6 | 76.2 | 78.0 | 75.2 | 74.5 | 75.1 | 74.8 | 138.2 | | | |
| 80000 | | 70.3 | 65.5 | 71.0 | 68.6 | 68.2 | 70.3 | 70.8 | 70.0 | 72.5 | 69.6 | 67.7 | 70.4 | 69.1 | 142.1 | | | |
| | OVERALL MEASURED | 118.0 | 116.5 | 116.9 | 116.7 | 117.4 | 116.8 | 116.7 | 117.3 | 118.5 | 118.8 | 123.4 | 127.1 | 125.3 | | | | |
| | OVERALL CALCULATED | 130.7 | 129.0 | 129.8 | 129.8 | 130.7 | 130.4 | 129.7 | 130.5 | 131.1 | 130.9 | 134.1 | 137.5 | 135.0 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 242 ACOUSTIC RANGE 12.2m(40ft.) ARC
 MODEL-145cm²(22.4in²) SIZE

| NO | REQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PUL |
|--------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 50 | 97.4 | 87.9 | 39.9 | 58.7 | 11.22 | (1.62) | (1.57) | (1.75) | (1.92) | (2.79) | (2.27) | (2.44) | (2.52) | (2.79) | (0.) |
| 63 | 97.0 | 90.0 | 39.0 | 91.6 | 90.1 | 91.7 | 94.6 | 96.2 | 97.4 | 101.3 | 108.7 | 112.7 | 113.7 | 157.3 | |
| 80 | 95.3 | 89.8 | 91.8 | 91.1 | 92.2 | 93.8 | 94.7 | 98.1 | 100.6 | 105.6 | 113.4 | 116.5 | 116.8 | 161.3 | |
| 100 | 96.6 | 89.4 | 90.9 | 91.4 | 93.0 | 94.9 | 96.0 | 98.7 | 101.2 | 107.7 | 115.2 | 118.6 | 117.4 | 162.8 | |
| 125 | 97.0 | 91.5 | 92.0 | 92.5 | 94.6 | 95.5 | 97.6 | 99.5 | 103.0 | 108.1 | 116.0 | 119.7 | 117.5 | 163.6 | |
| 160 | 97.7 | 92.8 | 93.8 | 95.3 | 95.9 | 97.0 | 98.4 | 100.6 | 104.5 | 109.3 | 117.1 | 120.5 | 118.3 | 164.5 | |
| 200 | 99.6 | 97.1 | 97.4 | 96.9 | 93.0 | 98.9 | 99.5 | 102.1 | 104.4 | 109.7 | 116.6 | 119.3 | 118.1 | 164.1 | |
| 250 | 105.4 | 102.7 | 100.7 | 98.7 | 100.6 | 100.4 | 102.3 | 105.0 | 105.7 | 109.6 | 115.7 | 120.4 | 117.9 | 164.6 | |
| 315 | 113.8 | 110.3 | 109.1 | 104.5 | 100.7 | 101.1 | 101.2 | 102.8 | 105.3 | 110.1 | 114.3 | 118.8 | 116.6 | 164.3 | |
| 400 | 114.1 | 112.4 | 112.9 | 111.1 | 108.2 | 103.1 | 102.2 | 104.1 | 106.6 | 109.7 | 113.1 | 117.8 | 113.9 | 164.9 | |
| 500 | 110.7 | 111.0 | 112.2 | 112.3 | 113.1 | 111.0 | 104.9 | 104.5 | 107.0 | 108.6 | 111.3 | 115.7 | 111.5 | 164.7 | |
| 630 | 109.9 | 102.7 | 109.5 | 110.8 | 112.6 | 112.5 | 111.1 | 107.5 | 108.0 | 108.8 | 111.3 | 113.9 | 109.7 | 164.6 | |
| 800 | 100.3 | 107.3 | 108.3 | 107.8 | 108.2 | 109.6 | 110.9 | 111.4 | 108.1 | 108.4 | 109.1 | 111.5 | 107.6 | 163.0 | |
| 1000 | 106.6 | 106.7 | 107.7 | 105.5 | 108.3 | 108.5 | 108.8 | 112.5 | 110.7 | 107.8 | 107.3 | 110.2 | 107.2 | 162.9 | |
| 1250 | 106.1 | 105.9 | 106.7 | 106.9 | 108.5 | 109.1 | 108.8 | 110.4 | 113.2 | 108.3 | 107.2 | 109.1 | 106.1 | 162.8 | |
| 1600 | 105.0 | 105.1 | 105.4 | 106.7 | 108.2 | 108.1 | 109.2 | 109.4 | 112.9 | 109.5 | 107.0 | 108.6 | 105.8 | 162.5 | |
| 2000 | 102.9 | 104.3 | 104.9 | 105.6 | 108.2 | 106.8 | 107.9 | 108.6 | 110.9 | 108.5 | 105.9 | 108.3 | 105.0 | 161.5 | |
| 2500 | 100.7 | 101.9 | 103.3 | 104.5 | 106.1 | 106.2 | 107.3 | 106.7 | 107.6 | 106.0 | 104.4 | 106.5 | 104.2 | 159.8 | |
| 3150 | 99.3 | 100.4 | 101.3 | 103.5 | 105.5 | 104.9 | 107.3 | 105.6 | 107.6 | 104.4 | 103.2 | 105.2 | 103.1 | 159.2 | |
| 4000 | 97.1 | 97.4 | 99.5 | 100.4 | 104.9 | 103.7 | 103.7 | 103.2 | 104.8 | 101.6 | 100.0 | 103.1 | 101.8 | 155.5 | |
| 5000 | 95.0 | 96.6 | 96.7 | 98.8 | 101.7 | 101.2 | 101.7 | 101.6 | 104.0 | 99.4 | 99.7 | 99.8 | 100.1 | 155.7 | |
| 6300 | 94.4 | 95.6 | 97.1 | 98.7 | 101.5 | 100.9 | 102.9 | 101.6 | 102.3 | 98.0 | 97.7 | 101.3 | 99.2 | 155.0 | |
| 8000 | 91.8 | 92.9 | 95.6 | 97.5 | 99.1 | 99.4 | 101.6 | 99.6 | 100.9 | 97.1 | 96.1 | 99.4 | 97.2 | 152.4 | |
| 10000 | 90.0 | 89.7 | 93.3 | 94.3 | 94.9 | 95.7 | 96.2 | 95.7 | 97.6 | 94.2 | 93.2 | 94.9 | 94.0 | 151.8 | |
| 12500 | 89.7 | 87.3 | 91.8 | 92.2 | 91.7 | 92.8 | 92.7 | 93.2 | 95.1 | 92.3 | 91.5 | 92.2 | 91.9 | 155.7 | |
| 16000 | 93.7 | 88.9 | 94.4 | 92.0 | 91.6 | 93.7 | 94.1 | 93.4 | 95.9 | 93.0 | 91.1 | 93.8 | 92.5 | 170.0 | |
| OVERALL CALCULATED | 120.1 | 118.8 | 119.3 | 119.1 | 119.9 | 119.4 | 119.8 | 121.1 | 121.1 | 121.1 | 125.5 | 129.2 | 127.3 | | |
| PHB | 126.5 | 127.5 | 128.3 | 129.0 | 130.6 | 130.2 | 131.3 | 130.8 | 132.7 | 131.4 | 132.2 | 135.5 | 135.2 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/2 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 110. 120. 130. 140. 150. 160. C. D. (C.) (C.) (C.)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| NO ESA | 69.2 | 61.3 | 64.4 | 63.9 | 65.7 | 67.4 | 70.2 | 71.4 | 71.9 | 74.7 | 80.5 | 81.7 | 79.8 |
| SIDELINE 2400. FT. | 68.8 | 63.4 | 53.5 | 56.7 | 69.0 | 69.8 | 70.0 | 74.0 | 76.4 | 82.1 | 84.5 | 81.8 | |
| (731.52 ft) | 67.5 | 63.1 | 55.2 | 67.7 | 69.5 | 70.2 | 73.2 | 74.9 | 78.9 | 85.0 | 86.1 | 82.5 | |
| NFA (0. RAD/SEC) | 68.2 | 62.6 | 55.2 | 66.5 | 68.5 | 70.5 | 73.7 | 75.4 | 80.9 | 86.7 | 87.3 | 83.0 | |
| (1. RPM) | 68.4 | 64.1 | 55.2 | 67.5 | 70.0 | 71.0 | 73.0 | 74.5 | 72.2 | 81.1 | 87.5 | 88.8 | 82.9 |
| NFK (0. RAD/SEC) | 69.0 | 65.7 | 57.9 | 70.1 | 71.2 | 72.4 | 73.7 | 75.4 | 78.6 | 82.3 | 88.3 | 89.3 | 83.5 |
| (1. RPM) | 70.6 | 69.8 | 71.3 | 71.6 | 73.1 | 74.1 | 74.6 | 76.8 | 78.3 | 82.4 | 87.7 | 88.4 | 82.7 |
| MFD 7500. RPM | 76.2 | 75.2 | 74.4 | 73.2 | 75.5 | 75.5 | 77.3 | 79.5 | 79.4 | 82.3 | 86.5 | 83.6 | 82.1 |
| (785. RAD/SEC) | 84.1 | 84.2 | 86.0 | 85.1 | 82.7 | 77.7 | 76.7 | 78.1 | 79.8 | 81.6 | 83.2 | 83.0 | 76.5 |
| AIRELOW RATIO | 80.2 | 82.4 | 85.0 | 87.2 | 85.3 | 79.0 | 78.2 | 79.8 | 80.0 | 80.8 | 82.2 | 73.1 | |
| VF/W 4.78 | 78.7 | 79.6 | 81.8 | 83.9 | 86.3 | 84.8 | 80.7 | 80.3 | 79.7 | 80.1 | 79.6 | 70.0 | |
| VEHICLE | 76.1 | 77.6 | 79.9 | 80.2 | 81.3 | 82.8 | 84.1 | 83.9 | 79.7 | 78.5 | 77.0 | 76.0 | 66.1 |
| CONFIG MC59 | 73.5 | 75.9 | 78.6 | 80.4 | 80.8 | 81.1 | 81.3 | 84.4 | 81.6 | 77.1 | 74.6 | 73.2 | 63.7 |
| -OC C41 AVECH CH | 71.5 | 74.0 | 76.5 | 77.9 | 80.1 | 80.9 | 80.3 | 81.4 | 83.0 | 76.4 | 72.7 | 70.4 | 60.0 |
| DATE 06-16-76 | 68.5 | 71.6 | 73.8 | 76.3 | 78.6 | 78.6 | 79.6 | 79.0 | 81.3 | 76.0 | 70.5 | 67.4 | 56.0 |
| RUN CONF2 HIGHFLW | 64.1 | 65.8 | 71.6 | 73.7 | 77.0 | 75.9 | 76.8 | 76.7 | 77.6 | 73.1 | 67.2 | 64.1 | 50.8 |
| TAPE K02420 | 58.5 | 63.7 | 57.6 | 70.4 | 72.8 | 73.2 | 74.0 | 72.5 | 67.8 | 62.3 | 57.9 | 43.5 | |
| FAN TIP SPEED | 51.8 | 57.7 | 61.7 | 65.7 | 68.8 | 68.5 | 70.5 | 67.8 | 67.9 | 61.6 | 55.7 | 49.6 | 32.1 |
| FT/SEC | 41.4 | 47.9 | 54.0 | 57.2 | 63.0 | 62.3 | 63.8 | 60.0 | 59.2 | 52.2 | 44.4 | 37.1 | 15.3 |
| OVERALL CALCULATED | 34.7 | 43.2 | 47.7 | 52.4 | 56.9 | 56.8 | 56.9 | 55.1 | 55.0 | 46.1 | 39.4 | 27.7 | 4.6 |
| PNDB | 20.4 | 30.8 | 38.0 | 43.2 | 47.8 | 47.9 | 49.2 | 45.4 | 43.3 | 33.2 | 23.6 | 11.3 | |
| 10000 | 10.6 | 21.1 | 27.9 | 32.0 | 33.1 | 34.5 | 29.8 | 26.4 | 14.7 | 0.9 | | | |
| 12500 | 6.8 | 9.0 | 10.9 | 10.3 | 6.3 | 1.5 | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 89.5 | 89.6 | 91.3 | 91.7 | 92.5 | 92.0 | 91.2 | 91.4 | 91.5 | 92.2 | 96.2 | 97.5 | 92.0 |
| PNDB | 94.8 | 95.5 | 97.6 | 98.3 | 99.8 | 99.4 | 99.1 | 98.9 | 100.0 | 97.6 | 99.1 | 99.9 | 92.7 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 242 ACUSTIC RANGE FULL-.33m²(513in²)
 SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 30 HR. 15.1

| NO | ROG. NO. | 40. FT. | 50. | 60. | 70. | 80. | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | 120. | 130. | 140. | 150. | 160. | 0. | G. | 2. | 0. | PUL | | | |
|--------------------|----------|------------------|-------|-------|-------|-------|--|--------|--------|-------|-------|-------|-------|-------|-------|----|----|----|-----|--------|--------|--------|
| | | | | | | | (0.70) | (1.05) | (1.22) | | | | | | | | | | | (1.40) | (1.57) | (1.75) |
| 50 | 53 | NO EGA | | | | | | | | | | | | | | | | | | | | |
| 100 | 125 | RADIAL (12. M) | 76.4 | 85.4 | 83.2 | 84.2 | 85.8 | 85.4 | 86.0 | 86.7 | 87.2 | 89.2 | 93.2 | 93.1 | 95.2 | | | | | | 130.4 | |
| 160 | 200 | VEHICLE CELL41 | 75.6 | 80.1 | 81.6 | 83.7 | 83.5 | 86.9 | 86.5 | 87.7 | 86.1 | 85.4 | 84.1 | 96.3 | 97.1 | | | | | | 131.3 | |
| 250 | 315 | LOC C41 ANECH CH | 79.0 | 79.0 | 81.0 | 82.6 | 83.9 | 84.5 | 85.4 | 89.1 | 90.3 | 93.6 | 95.4 | 96.9 | 99.2 | | | | | | 136.3 | |
| 400 | 500 | DATE 06-16-76 | 77.8 | 80.8 | 82.8 | 82.4 | 83.7 | 85.3 | 87.7 | 89.6 | 91.3 | 95.7 | 101.9 | 104.3 | 105.0 | | | | | | 130.3 | |
| 630 | 800 | RUN CONF2HIGHFLW | 31.2 | 83.0 | 85.2 | 85.3 | 86.8 | 88.2 | 89.1 | 92.0 | 95.2 | 100.0 | 103.2 | 106.9 | 107.4 | | | | | | 140.3 | |
| 1000 | 1250 | TAPE X0243C | 81.8 | 83.0 | 85.0 | 85.6 | 87.2 | 89.0 | 89.9 | 92.6 | 95.8 | 101.4 | 107.1 | 109.2 | 108.0 | | | | | | 141.9 | |
| 1600 | 2000 | GAR 29.5 HG | 84.9 | 84.9 | 87.2 | 89.0 | 89.9 | 91.8 | 94.2 | 96.9 | 101.5 | 106.2 | 109.1 | 108.1 | | | | | | | 142.7 | |
| 2500 | 3150 | (99.82. N/M2) | 84.4 | 85.7 | 87.4 | 88.7 | 90.0 | 91.2 | 92.8 | 95.2 | 98.9 | 102.5 | 106.7 | 108.1 | 107.9 | | | | | | 142.5 | |
| 4000 | 5000 | TAMB 65. DEG F | 86.5 | 88.0 | 88.7 | 90.0 | 90.9 | 92.2 | 93.4 | 96.3 | 99.0 | 102.3 | 105.0 | 105.9 | 106.5 | | | | | | 142.6 | |
| 6300 | 8000 | (291. DEG K) | 86.0 | 87.3 | 90.1 | 91.0 | 92.3 | 94.0 | 96.9 | 99.6 | 102.4 | 103.6 | 105.3 | 104.8 | | | | | | | 141.5 | |
| 10000 | 12500 | TMET 60. DEG F | 85.9 | 88.7 | 88.9 | 90.5 | 92.1 | 93.4 | 94.3 | 96.5 | 99.9 | 102.5 | 103.2 | 103.9 | 103.9 | | | | | | 140.5 | |
| 16000 | 20000 | (289. DEG K) | 86.8 | 88.6 | 89.6 | 90.4 | 92.5 | 93.1 | 94.5 | 97.4 | 100.3 | 100.9 | 102.3 | 102.4 | 101.7 | | | | | | 140.0 | |
| 25000 | 31500 | HACT11.93 GM/M3 | 87.0 | 88.5 | 90.3 | 91.3 | 92.7 | 93.3 | 95.2 | 98.1 | 100.3 | 101.1 | 100.6 | 100.6 | | | | | | | 139.3 | |
| 40000 | 50000 | (.01193 KG/M3) | 85.8 | 87.8 | 89.1 | 90.1 | 92.2 | 93.3 | 94.7 | 98.1 | 99.6 | 100.4 | 99.4 | 99.3 | 98.3 | | | | | | 139.4 | |
| 63000 | 80000 | FREQ. SHIFT | 85.4 | 87.2 | 88.7 | 90.5 | 91.8 | 93.2 | 95.1 | 97.8 | 99.5 | 99.6 | 99.0 | 99.4 | 99.2 | | | | | | 138.7 | |
| OVERALL MEASURED | | JET | 84.5 | 86.3 | 89.8 | 89.8 | 91.9 | 94.0 | 95.7 | 97.6 | 99.3 | 98.7 | 99.1 | 100.3 | 100.5 | | | | | | 138.6 | |
| OVERALL CALCULATED | | (289. DEG K) | 83.7 | 86.3 | 87.2 | 89.4 | 92.2 | 93.3 | 95.2 | 97.2 | 98.2 | 98.8 | 98.7 | 100.6 | 101.6 | | | | | | 138.8 | |
| PMNR | | (.01193 KG/M3) | 82.4 | 85.5 | 86.9 | 88.9 | 91.7 | 92.0 | 94.7 | 97.4 | 98.9 | 97.8 | 97.9 | 101.3 | 102.5 | | | | | | 139.0 | |
| | | FREQ. SHIFT | 79.6 | 83.3 | 85.0 | 87.4 | 89.7 | 90.6 | 93.7 | 94.8 | 97.0 | 95.7 | 96.3 | 100.4 | 100.8 | | | | | | 139.2 | |
| | | JET | 78.2 | 81.7 | 82.9 | 86.1 | 88.6 | 89.2 | 92.3 | 93.1 | 95.6 | 93.9 | 94.8 | 99.3 | 99.4 | | | | | | 138.0 | |
| | | (289. DEG K) | 74.9 | 78.5 | 80.9 | 82.7 | 87.0 | 86.8 | 90.2 | 89.6 | 92.6 | 90.4 | 91.8 | 95.7 | 96.9 | | | | | | 137.4 | |
| | | (.01193 KG/M3) | 71.3 | 76.3 | 77.5 | 79.8 | 82.8 | 83.2 | 84.8 | 86.2 | 90.3 | 86.7 | 90.0 | 90.5 | 93.4 | | | | | | 135.5 | |
| | | FREQ. SHIFT | 68.9 | 74.7 | 76.7 | 79.1 | 81.4 | 81.1 | 83.8 | 83.4 | 86.5 | 83.1 | 85.5 | 90.6 | 90.3 | | | | | | 133.4 | |
| | | JET | 63.8 | 69.9 | 73.1 | 75.6 | 76.9 | 77.1 | 83.8 | 83.4 | 86.5 | 83.1 | 85.5 | 90.6 | 90.3 | | | | | | 133.2 | |
| | | (289. DEG K) | 56.7 | 63.9 | 67.2 | 69.7 | 70.8 | 72.9 | 73.7 | 73.4 | 74.5 | 72.6 | 74.9 | 77.4 | 78.2 | | | | | | 132.0 | |
| | | (.01193 KG/M3) | 49.0 | 55.6 | 60.0 | 62.7 | 62.6 | 64.3 | 64.6 | 66.7 | 67.5 | 65.2 | 68.7 | 69.9 | 70.1 | | | | | | 129.5 | |
| | | FREQ. SHIFT | 41.3 | 48.2 | 54.0 | 57.1 | 56.7 | 57.1 | 57.8 | 56.7 | 60.0 | 58.8 | 60.4 | 62.2 | 65.1 | | | | | | 128.3 | |
| | | JET | 97.3 | 99.5 | 100.8 | 102.0 | 103.9 | 104.9 | 106.7 | 109.1 | 111.4 | 113.3 | 115.9 | 117.9 | 117.9 | | | | | | | 153.5 |
| | | (289. DEG K) | 110.3 | 112.3 | 113.8 | 114.9 | 116.5 | 117.4 | 119.1 | 121.7 | 124.0 | 125.4 | 126.5 | 127.5 | 127.3 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 243 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm (22.4in?)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| NO | VEHICLE | CONF | RDL | RDL | RDL | PROC. DATE - MONTH 3-DAY 30 HR. 15.3 | | | | | | | | | | | |
|--------------------|---------|-------|-------|-------|-------|--|-------|-------|-------|---|-------|-------|-------|-------------------------------|-------|--|--|
| | | | | | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | O. G. (O.) (O.) (O.) (O.) | | | |
| NO | CELL | NCS | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | |
| 50 | 79.9 | 82.9 | 84.9 | 86.9 | 88.9 | 90.9 | 92.9 | 94.9 | 96.9 | 98.9 | 100.9 | 102.9 | 104.9 | 106.9 | 108.9 | | |
| 63 | 81.5 | 85.8 | 86.8 | 89.2 | 89.8 | 90.7 | 91.7 | 93.4 | 97.8 | 104.0 | 106.4 | 107.7 | | | | | |
| 63 | 83.3 | 85.1 | 87.3 | 87.4 | 89.0 | 90.3 | 91.2 | 94.1 | 97.3 | 102.1 | 107.9 | 110.3 | | | | | |
| 100 | 83.9 | 85.2 | 87.2 | 87.7 | 89.3 | 91.2 | 92.0 | 94.7 | 97.9 | 103.5 | 109.2 | 111.4 | 110.2 | | | | |
| 125 | 85.2 | 87.0 | 88.0 | 89.3 | 91.1 | 92.0 | 93.9 | 96.3 | 99.0 | 103.6 | 108.3 | 111.2 | 110.3 | | | | |
| 160 | 86.5 | 87.8 | 89.5 | 90.8 | 92.1 | 93.0 | 94.4 | 96.1 | 99.0 | 104.6 | 108.8 | 110.2 | 110.0 | | | | |
| 200 | 88.6 | 90.1 | 90.9 | 92.1 | 93.0 | 94.4 | 95.5 | 98.4 | 101.1 | 104.6 | 107.1 | 108.1 | 108.6 | | | | |
| 250 | 88.2 | 89.4 | 92.2 | 92.6 | 93.1 | 94.4 | 96.1 | 98.6 | 102.1 | 104.6 | 105.3 | 106.0 | 106.9 | | | | |
| 315 | 88.0 | 90.8 | 91.1 | 92.6 | 93.2 | 94.2 | 95.6 | 96.4 | 98.6 | 102.1 | 104.6 | 105.3 | 106.0 | 106.1 | | | |
| 400 | 88.6 | 90.1 | 91.9 | 92.1 | 93.7 | 93.4 | 97.2 | 99.9 | 102.1 | 104.2 | 104.6 | 104.6 | 103.9 | | | | |
| 500 | 88.9 | 90.7 | 91.7 | 92.5 | 94.6 | 95.2 | 96.6 | 99.5 | 102.5 | 103.1 | 103.3 | 103.2 | 102.7 | | | | |
| 600 | 89.2 | 90.7 | 92.5 | 93.5 | 94.9 | 95.5 | 97.4 | 100.3 | 102.5 | 103.3 | 102.8 | 102.7 | 102.2 | | | | |
| 800 | 88.0 | 90.1 | 91.3 | 92.4 | 94.4 | 95.6 | 96.9 | 100.4 | 101.8 | 102.7 | 101.6 | 101.5 | 100.6 | | | | |
| 1000 | 87.6 | 89.4 | 91.0 | 92.8 | 94.1 | 95.4 | 97.3 | 100.0 | 101.7 | 101.8 | 101.3 | 101.7 | 101.4 | | | | |
| 1250 | 86.8 | 88.9 | 90.7 | 92.2 | 94.3 | 96.4 | 98.0 | 99.9 | 101.7 | 101.5 | 102.6 | 102.9 | | | | | |
| 1600 | 86.2 | 88.8 | 89.7 | 91.9 | 94.7 | 95.8 | 97.7 | 99.7 | 101.7 | 101.3 | 101.2 | 103.1 | 104.1 | | | | |
| 2000 | 85.1 | 88.3 | 89.6 | 91.6 | 94.4 | 94.8 | 97.4 | 100.1 | 101.6 | 100.5 | 100.7 | 104.0 | 105.3 | | | | |
| 2500 | 82.6 | 86.4 | 88.0 | 90.5 | 92.8 | 93.7 | 96.8 | 97.9 | 103.0 | 98.7 | 99.4 | 103.4 | 103.9 | | | | |
| 3150 | 81.8 | 85.3 | 86.5 | 89.7 | 92.2 | 92.8 | 96.0 | 96.7 | 99.3 | 97.5 | 98.4 | 102.9 | 103.1 | | | | |
| 4000 | 79.2 | 82.8 | 85.2 | 87.1 | 91.3 | 91.3 | 94.6 | 93.9 | 97.0 | 94.8 | 96.1 | 100.1 | 101.2 | | | | |
| 5000 | 76.9 | 82.0 | 83.1 | 85.4 | 88.4 | 88.9 | 90.4 | 91.8 | 95.9 | 92.3 | 95.6 | 96.2 | 99.0 | | | | |
| 6000 | 76.1 | 81.9 | 83.9 | 86.3 | 88.6 | 88.3 | 91.0 | 90.6 | 93.7 | 90.3 | 92.7 | 97.9 | 97.6 | | | | |
| 8000 | 73.4 | 79.5 | 82.7 | 85.2 | 86.5 | 87.2 | 89.2 | 88.4 | 89.9 | 89.1 | 92.1 | 94.5 | 95.8 | | | | |
| 10000 | 69.3 | 76.5 | 79.8 | 82.3 | 83.4 | 83.5 | 86.2 | 86.0 | 87.1 | 85.2 | 87.5 | 89.9 | 90.8 | | | | |
| 12500 | 66.1 | 72.6 | 77.1 | 79.7 | 81.4 | 81.7 | 83.7 | 84.6 | 82.3 | 85.8 | 86.9 | 87.1 | | | | | |
| 16000 | 64.7 | 71.6 | 77.4 | 80.5 | 80.1 | 80.5 | 81.2 | 80.1 | 83.4 | 82.2 | 83.8 | 85.6 | 88.5 | | | | |
| OVERALL CALCULATED | 99.4 | 101.6 | 103.0 | 104.3 | 106.2 | 107.3 | 109.1 | 111.4 | 113.6 | 115.3 | 118.0 | 120.0 | 119.9 | | | | |
| PND8 | 108.9 | 112.0 | 113.5 | 117.8 | 118.6 | 121.0 | 122.5 | 124.9 | 124.7 | 126.0 | 128.8 | 129.0 | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2
 TEST POINT 2Y3
 ACOUSTIC RANGE 45.7m(150ft.) ARC
 SIZE FULL-.33m(1513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY)

| NO FSA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | |
|--------|---|------|------|------|------|
| | 40. | 50. | 60. | 70. | 90. |
| 50 | 51.7 | 56.3 | 59.4 | 59.7 | 61.4 |
| 63 | 53.3 | 59.1 | 59.2 | 62.0 | 64.8 |
| 80 | 55.0 | 58.3 | 61.7 | 62.5 | 64.5 |
| 100 | 55.4 | 58.3 | 61.4 | 62.7 | 64.7 |
| 125 | 56.7 | 60.1 | 62.2 | 64.2 | 66.5 |
| 150 | 57.8 | 60.7 | 63.6 | 65.6 | 67.4 |
| 200 | 59.6 | 62.8 | 64.8 | 66.8 | 68.1 |
| 250 | 59.0 | 62.0 | 65.9 | 66.7 | 68.0 |
| 315 | 58.5 | 63.1 | 66.5 | 66.9 | 68.9 |
| 400 | 58.6 | 62.0 | 66.1 | 68.2 | 70.3 |
| 500 | 58.4 | 62.2 | 66.5 | 68.7 | 69.5 |
| 630 | 58.0 | 61.6 | 64.8 | 66.7 | 68.6 |
| 800 | 55.9 | 60.2 | 62.9 | 64.9 | 67.6 |
| 1000 | 56.5 | 58.7 | 61.8 | 64.6 | 66.5 |
| 1250 | 52.3 | 57.0 | 60.5 | 63.1 | 65.8 |
| 1600 | 49.8 | 55.3 | 58.1 | 61.5 | 65.0 |
| 2000 | 46.4 | 52.8 | 56.3 | 59.7 | 63.3 |
| 2500 | 40.5 | 48.2 | 52.3 | 56.3 | 59.5 |
| 3150 | 34.3 | 42.6 | 46.8 | 51.9 | 55.5 |
| 4000 | 23.6 | 33.4 | 39.6 | 43.9 | 49.4 |
| 5000 | 16.6 | 28.6 | 34.1 | 39.1 | 43.5 |
| 6300 | 2.0 | 17.1 | 24.6 | 30.8 | 35.2 |
| 8000 | | | 8.2 | 15.4 | 19.3 |
| 10000 | | | | | 0.7 |
| 16000 | | | | | 0.4 |

| NO FSA | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50 | 51.7 | 56.3 | 59.4 | 59.7 | 61.4 | 63.2 | 65.4 | 66.9 | 67.9 | 71.2 | 75.8 | 76.0 |
| 63 | 53.3 | 59.1 | 59.2 | 62.0 | 64.8 | 65.5 | 66.3 | 68.2 | 70.0 | 73.2 | 77.1 | 78.5 |
| 80 | 55.0 | 58.3 | 61.7 | 62.5 | 64.5 | 66.0 | 66.7 | 69.2 | 71.7 | 75.4 | 79.5 | 79.9 |
| 100 | 55.4 | 58.3 | 61.4 | 62.7 | 64.7 | 66.7 | 67.5 | 69.7 | 72.2 | 76.7 | 80.7 | 80.6 |
| 125 | 56.7 | 60.1 | 62.2 | 64.2 | 66.5 | 67.5 | 69.3 | 71.2 | 73.2 | 76.6 | 79.7 | 80.3 |
| 150 | 57.8 | 60.7 | 63.6 | 65.6 | 67.4 | 68.7 | 70.2 | 72.1 | 75.1 | 77.5 | 80.1 | 79.1 |
| 200 | 59.6 | 62.8 | 64.8 | 66.8 | 68.1 | 69.6 | 70.6 | 73.1 | 75.0 | 77.2 | 78.2 | 76.6 |
| 250 | 59.0 | 62.0 | 65.9 | 66.7 | 68.0 | 69.6 | 71.0 | 73.5 | 75.4 | 77.1 | 76.5 | 75.6 |
| 315 | 58.5 | 63.1 | 66.5 | 66.9 | 68.9 | 70.3 | 71.2 | 72.9 | 75.5 | 76.9 | 75.8 | 73.8 |
| 400 | 58.6 | 62.0 | 66.1 | 68.2 | 70.3 | 71.7 | 73.9 | 75.3 | 76.1 | 74.4 | 71.3 | 66.5 |
| 500 | 58.4 | 62.2 | 66.5 | 68.7 | 69.5 | 70.7 | 73.2 | 75.3 | 74.5 | 72.8 | 69.7 | 64.4 |
| 630 | 58.0 | 61.6 | 64.8 | 66.7 | 68.6 | 69.3 | 71.1 | 73.5 | 74.8 | 74.2 | 71.6 | 68.3 |
| 800 | 55.9 | 60.2 | 62.9 | 64.9 | 67.6 | 68.8 | 70.1 | 72.9 | 73.6 | 72.8 | 69.5 | 66.0 |
| 1000 | 56.5 | 58.7 | 61.8 | 64.6 | 66.5 | 68.1 | 69.8 | 71.8 | 72.6 | 71.1 | 68.1 | 64.7 |
| 1250 | 52.3 | 57.0 | 60.5 | 63.1 | 65.8 | 68.1 | 69.6 | 70.9 | 71.5 | 69.1 | 66.9 | 63.9 |
| 1600 | 49.8 | 55.3 | 58.1 | 61.5 | 65.0 | 66.4 | 68.0 | 69.3 | 70.1 | 67.8 | 64.7 | 61.9 |
| 2000 | 46.4 | 52.8 | 56.3 | 59.7 | 63.3 | 63.9 | 66.3 | 68.2 | 68.3 | 65.1 | 61.9 | 59.8 |
| 2500 | 40.5 | 48.2 | 52.3 | 56.3 | 59.5 | 60.6 | 63.5 | 63.7 | 64.3 | 60.5 | 57.2 | 54.9 |
| 3150 | 34.3 | 42.6 | 46.8 | 51.9 | 55.5 | 56.4 | 59.2 | 59.0 | 59.6 | 54.8 | 50.9 | 47.3 |
| 4000 | 23.6 | 33.4 | 39.6 | 43.9 | 49.4 | 49.7 | 52.7 | 50.7 | 51.4 | 43.3 | 40.5 | 34.0 |
| 5000 | 16.6 | 28.6 | 34.1 | 39.1 | 43.5 | 44.4 | 45.5 | 45.4 | 46.9 | 39.0 | 35.3 | 24.0 |
| 6300 | 2.0 | 17.1 | 24.6 | 30.8 | 35.2 | 37.3 | 35.0 | 34.6 | 23.5 | 18.7 | 7.9 | |
| 8000 | | | 8.2 | 15.4 | 19.3 | 20.9 | 22.1 | 18.7 | 16.4 | 6.7 | | |
| 10000 | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | |

OVERALL CALCULATED 68.8 72.5 75.2 77.1 79.2 80.5 81.9 84.0 85.7 87.1 88.6 88.2 84.2
 PW88 72.9 77.4 80.5 83.5 86.1 87.3 89.1 90.9 91.9 91.6 91.0 89.5 84.1

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 2Y3 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | | | | | | PROC. DATE - MONTH 8 DAY 30 HR. 15.3 | | | | | | | | | | | | | | | | | | |
|--------------------|-------|---|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| | | ANGLES FROM INLET | | | | | IN DEGREES (AND RADIIANS) | | | | | REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | | | | | | | | | | | | | |
| | | FREQ. (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) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO ESA | 50 | 82.9 | 86.4 | 87.7 | 87.7 | 89.3 | 90.7 | 93.6 | 95.2 | 97.0 | 97.0 | 99.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | | | | | | | | | | | |
| RDS. NO. | 60 | 84.3 | 89.3 | 97.5 | 88.6 | 92.4 | 93.0 | 93.7 | 95.8 | 97.0 | 97.4 | 100.8 | 103.6 | 110.1 | 103.5 | 104.0 | | | | | | | | | | | | | | |
| RADIAL 150. FT. | 80 | 87.0 | 88.2 | 90.6 | 90.9 | 92.0 | 93.3 | 94.2 | 97.4 | 97.4 | 100.8 | 106.4 | 112.6 | 105.8 | 104.0 | | | | | | | | | | | | | | | |
| (46. M) | 100 | 87.4 | 88.2 | 91.2 | 91.2 | 92.5 | 94.4 | 95.3 | 98.4 | 98.4 | 101.4 | 108.0 | 113.4 | 106.4 | 105.2 | | | | | | | | | | | | | | | |
| VEHICLE | 125 | 88.7 | 90.3 | 91.0 | 92.5 | 94.1 | 95.9 | 97.0 | 98.2 | 100.6 | 104.3 | 109.1 | 114.8 | 108.2 | 107.0 | | | | | | | | | | | | | | | |
| CELL 41 | 160 | 91.0 | 91.5 | 92.5 | 94.1 | 95.9 | 97.0 | 98.1 | 99.0 | 102.1 | 105.1 | 109.4 | 113.6 | 106.8 | 107.1 | | | | | | | | | | | | | | | |
| NC59 | 200 | 94.6 | 94.9 | 96.1 | 96.9 | 97.6 | 98.1 | 98.9 | 99.8 | 102.5 | 105.0 | 109.0 | 112.7 | 107.4 | 106.7 | | | | | | | | | | | | | | | |
| LOC C41 AVECH CH | 250 | 92.7 | 93.9 | 96.0 | 96.2 | 97.6 | 98.9 | 99.3 | 99.9 | 102.1 | 105.3 | 109.1 | 111.8 | 106.5 | 106.3 | | | | | | | | | | | | | | | |
| DATE 06-16-76 | 315 | 93.3 | 94.3 | 96.1 | 96.1 | 97.9 | 99.3 | 99.4 | 100.2 | 103.4 | 106.4 | 108.9 | 110.9 | 105.9 | 104.4 | | | | | | | | | | | | | | | |
| RUN COME HIGH/LW | 400 | 94.8 | 95.6 | 96.1 | 96.9 | 98.2 | 99.4 | 100.2 | 103.4 | 106.4 | 108.9 | 110.9 | 105.9 | 104.4 | | | | | | | | | | | | | | | | |
| TAPE | 500 | 99.2 | 97.7 | 97.2 | 97.0 | 98.9 | 99.5 | 100.9 | 103.5 | 107.0 | 108.1 | 110.3 | 104.9 | 103.2 | | | | | | | | | | | | | | | | |
| BAR 29.4 AS | 630 | 99.9 | 94.5 | 100.0 | 99.8 | 100.1 | 99.7 | 100.9 | 104.3 | 107.0 | 108.6 | 110.8 | 104.0 | 102.0 | | | | | | | | | | | | | | | | |
| (99414. V/M2) | 800 | 97.5 | 97.8 | 98.8 | 99.9 | 100.4 | 100.1 | 101.4 | 104.4 | 105.8 | 107.4 | 109.4 | 102.0 | 98.8 | | | | | | | | | | | | | | | | |
| TAMB 65. DEG F | 1000 | 95.6 | 96.4 | 97.5 | 99.0 | 100.1 | 101.4 | 101.6 | 104.5 | 106.5 | 106.8 | 109.0 | 101.2 | 99.2 | | | | | | | | | | | | | | | | |
| (291. DEG K) | 1250 | 93.8 | 95.1 | 96.7 | 97.7 | 99.8 | 101.1 | 102.8 | 104.7 | 106.2 | 107.0 | 108.5 | 100.6 | 98.9 | | | | | | | | | | | | | | | | |
| TWET 60. DEG F | 1600 | 92.7 | 94.6 | 96.2 | 97.9 | 100.0 | 101.1 | 103.2 | 104.9 | 106.2 | 107.0 | 108.7 | 100.1 | 98.6 | | | | | | | | | | | | | | | | |
| (289. DEG K) | 2000 | 90.6 | 94.3 | 95.6 | 97.6 | 99.9 | 99.8 | 102.4 | 105.1 | 106.4 | 105.5 | 107.2 | 99.8 | 98.5 | | | | | | | | | | | | | | | | |
| HACT 12.00 G/M3 | 2500 | 88.9 | 93.7 | 95.3 | 97.2 | 99.1 | 99.2 | 101.8 | 102.9 | 104.5 | 103.7 | 106.1 | 97.9 | 97.4 | | | | | | | | | | | | | | | | |
| (.01200 G/M3) | 3150 | 88.0 | 93.1 | 94.8 | 97.2 | 99.0 | 98.6 | 101.5 | 102.2 | 104.3 | 102.5 | 104.9 | 97.1 | 96.3 | | | | | | | | | | | | | | | | |
| FREQ. SHIFT | 4000 | 85.5 | 90.1 | 93.2 | 95.6 | 99.1 | 97.4 | 100.3 | 99.1 | 101.7 | 99.5 | 101.6 | 94.8 | 94.7 | | | | | | | | | | | | | | | | |
| JET | 5000 | 83.9 | 88.7 | 90.9 | 93.1 | 96.4 | 95.8 | 96.4 | 97.5 | 100.4 | 97.3 | 101.8 | 91.6 | 93.2 | | | | | | | | | | | | | | | | |
| DIAMETER RATIO | 6300 | 83.3 | 88.2 | 90.9 | 93.6 | 96.3 | 95.3 | 97.2 | 96.6 | 98.1 | 96.5 | 100.0 | 93.1 | 92.0 | | | | | | | | | | | | | | | | |
| DF/DH 6.78 | 8000 | 80.6 | 85.5 | 89.9 | 91.9 | 93.7 | 95.4 | 95.1 | 96.4 | 95.3 | 98.6 | 91.0 | 91.0 | 87.5 | | | | | | | | | | | | | | | | |
| | 10000 | 76.5 | 81.7 | 86.5 | 88.5 | 89.9 | 90.2 | 91.0 | 91.5 | 93.0 | 92.1 | 96.4 | 87.4 | 87.5 | | | | | | | | | | | | | | | | |
| | 12500 | 73.5 | 78.8 | 84.3 | 85.2 | 86.1 | 87.6 | 88.6 | 89.4 | 90.8 | 89.9 | 95.0 | 84.4 | 83.8 | | | | | | | | | | | | | | | | |
| | 16000 | 73.7 | 78.6 | 85.6 | 84.2 | 84.8 | 86.7 | 90.1 | 88.1 | 90.8 | 91.9 | 97.2 | 86.0 | 86.7 | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 106.9 | 107.7 | 106.8 | 109.9 | 111.5 | 112.0 | 113.5 | 115.7 | 118.2 | 120.2 | 124.1 | 117.5 | 116.6 | | | | | | | | | | | | | | | | | |
| PNDR | 115.8 | 118.6 | 120.2 | 122.0 | 123.9 | 123.9 | 123.9 | 125.9 | 127.3 | 129.6 | 129.6 | 132.6 | 125.3 | 124.4 | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 244 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 30 MR. 15.3

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY)

| NO EGA
SIDELINE 2470 FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | 54.7 | 59.8 | 52.2 | 62.9 | 64.9 | 66.5 | 69.2 | 70.4 | 71.7 | 74.4 | 79.8 | 70.5 | 68.3 |
| | | 56.0 | 62.6 | 58.0 | 68.7 | 68.0 | 68.8 | 59.3 | 71.0 | 73.5 | 76.9 | 81.8 | 73.0 | 70.0 |
| | | 58.7 | 61.6 | 56.9 | 67.5 | 69.0 | 69.0 | 69.7 | 72.5 | 75.2 | 79.7 | 84.3 | 75.1 | 70.6 |
| | | 58.9 | 51.3 | 53.9 | 66.2 | 68.0 | 70.0 | 70.7 | 73.5 | 75.7 | 81.2 | 85.0 | 75.6 | 70.8 |
| | | 60.2 | 53.3 | 55.2 | 67.5 | 69.5 | 70.8 | 72.3 | 74.5 | 77.0 | 81.1 | 85.7 | 76.8 | 71.4 |
| | | 62.3 | 64.4 | 56.8 | 68.9 | 71.2 | 72.4 | 73.4 | 75.4 | 78.3 | 82.0 | 86.1 | 77.1 | 72.0 |
| | | 63.6 | 67.6 | 70.7 | 70.6 | 72.1 | 73.4 | 74.1 | 76.8 | 79.0 | 82.2 | 84.7 | 75.4 | 71.7 |
| | | 63.5 | 66.5 | 69.7 | 70.7 | 72.5 | 74.1 | 74.8 | 77.0 | 79.7 | 81.6 | 83.5 | 75.6 | 70.6 |
| | | 63.7 | 66.6 | 67.8 | 70.4 | 72.7 | 74.2 | 74.7 | 76.4 | 79.8 | 81.4 | 82.3 | 74.3 | 69.8 |
| | | 64.5 | 67.5 | 69.3 | 70.9 | 72.7 | 74.0 | 74.7 | 77.4 | 79.5 | 80.8 | 80.9 | 73.0 | 67.0 |
| | | 68.7 | 69.2 | 70.0 | 70.7 | 73.0 | 73.8 | 75.0 | 77.2 | 79.8 | 79.5 | 79.8 | 71.5 | 64.9 |
| | | 70.3 | 72.3 | 73.0 | 73.8 | 74.6 | 77.5 | 79.3 | 79.3 | 79.5 | 79.6 | 69.6 | 62.3 | |
| | | 67.9 | 70.4 | 72.4 | 73.6 | 73.3 | 74.6 | 76.9 | 78.4 | 77.5 | 77.3 | 66.5 | 57.4 | |
| | | 65.7 | 68.3 | 70.8 | 72.5 | 74.1 | 74.0 | 76.3 | 77.3 | 77.3 | 76.1 | 75.8 | 64.2 | 55.7 |
| | | 63.2 | 66.5 | 68.6 | 71.3 | 72.9 | 74.3 | 75.6 | 76.5 | 74.9 | 73.9 | 61.9 | 52.8 | |
| | | 61.1 | 64.6 | 67.5 | 70.3 | 71.6 | 73.5 | 74.5 | 74.6 | 73.5 | 72.2 | 58.9 | 48.8 | |
| | | 58.8 | 62.3 | 65.7 | 68.8 | 68.9 | 71.3 | 73.2 | 73.1 | 70.1 | 68.4 | 55.6 | 44.3 | |
| | | 55.4 | 59.5 | 63.1 | 65.8 | 65.1 | 68.5 | 68.7 | 68.8 | 65.5 | 64.0 | 49.4 | 36.7 | |
| | | 50.3 | 55.1 | 59.4 | 62.2 | 62.2 | 64.7 | 64.5 | 64.6 | 59.8 | 57.3 | 41.6 | 25.3 | |
| | | 40.6 | 47.6 | 52.4 | 57.2 | 55.9 | 58.4 | 55.9 | 56.1 | 50.1 | 46.0 | 28.8 | 8.2 | |
| | | 35.3 | 41.8 | 46.8 | 51.5 | 51.5 | 51.5 | 51.5 | 51.2 | 43.9 | 41.5 | 19.5 | | |
| | | 31.8 | 38.0 | 42.7 | 42.2 | 43.6 | 41.0 | 39.1 | 31.7 | 25.9 | 3.1 | | | |
| | | 3.1 | 15.4 | 22.2 | 26.6 | 27.6 | 28.3 | 25.4 | 21.9 | 13.0 | 3.4 | | | |
| | | 4.0 | 5.4 | 5.4 | 5.1 | 2.0 | | | | | | | | |

OVERALL CALCULATED 75.8 78.1 90.2 91.9 83.7 84.8 85.8 87.9 90.0 91.8 94.4 85.4 80.7

PMDR 81.0 84.2 96.8 88.9 91.5 92.3 93.8 95.4 96.4 96.6 97.6 87.9 81.7

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 244
 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PWL
 FREQ. (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)(3.2)(3.5)(3.8)(4.1)(4.5)(5.0)

| RDS. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PWL |
|--|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|
| 100 | 82.6 | 90.9 | 88.9 | 90.2 | 91.8 | 91.4 | 92.0 | 93.0 | 93.7 | 94.7 | 98.7 | 99.1 | 101.9 | 136.4 | | | | | | |
| 125 | 81.1 | 85.4 | 86.0 | 89.4 | 91.0 | 92.1 | 92.2 | 93.4 | 91.9 | 91.2 | 100.1 | 102.8 | 103.6 | 137.4 | | | | | | |
| 200 | 83.8 | 83.5 | 87.7 | 87.8 | 88.4 | 88.4 | 88.3 | 90.7 | 91.4 | 97.0 | 101.7 | 103.4 | 106.4 | 138.5 | | | | | | |
| 250 | 82.8 | 86.1 | 88.1 | 87.4 | 89.0 | 90.1 | 93.2 | 95.1 | 96.6 | 101.2 | 108.6 | 111.3 | 112.6 | 142.5 | | | | | | |
| 315 | 84.9 | 89.2 | 87.4 | 89.7 | 92.6 | 93.2 | 93.8 | 95.7 | 98.7 | 104.0 | 111.0 | 114.1 | 114.2 | 145.0 | | | | | | |
| 400 | 86.9 | 88.5 | 90.2 | 90.0 | 91.3 | 92.7 | 93.8 | 97.0 | 100.2 | 106.3 | 113.2 | 115.9 | 115.0 | 149.0 | | | | | | |
| 500 | 87.0 | 88.0 | 89.6 | 90.6 | 91.9 | 93.5 | 95.4 | 97.8 | 101.3 | 108.4 | 115.1 | 117.0 | 115.3 | 150.2 | | | | | | |
| 630 | 88.6 | 90.4 | 90.6 | 92.2 | 93.8 | 94.9 | 96.8 | 99.2 | 103.1 | 109.0 | 115.9 | 118.1 | 116.1 | 151.2 | | | | | | |
| 800 | 91.1 | 91.0 | 92.7 | 93.7 | 95.8 | 97.4 | 97.8 | 100.7 | 104.7 | 110.0 | 116.7 | 118.9 | 117.2 | 152.0 | | | | | | |
| 1000 | 95.0 | 96.2 | 96.7 | 96.5 | 96.9 | 97.7 | 98.9 | 102.0 | 105.2 | 109.6 | 116.3 | 118.2 | 117.2 | 151.8 | | | | | | |
| 1250 | 96.8 | 97.3 | 97.8 | 97.1 | 98.4 | 99.8 | 100.4 | 103.4 | 106.3 | 110.1 | 115.6 | 119.3 | 116.6 | 152.1 | | | | | | |
| 1600 | 106.4 | 103.7 | 100.9 | 98.7 | 98.1 | 99.9 | 100.3 | 102.7 | 106.5 | 110.3 | 115.2 | 119.1 | 116.4 | 152.1 | | | | | | |
| 2000 | 108.9 | 107.2 | 104.0 | 101.1 | 99.7 | 100.8 | 103.8 | 107.0 | 109.8 | 114.3 | 117.7 | 114.2 | 114.2 | 151.6 | | | | | | |
| 2500 | 107.5 | 108.1 | 108.6 | 108.4 | 107.5 | 103.6 | 101.5 | 103.9 | 107.6 | 108.9 | 113.9 | 115.8 | 111.8 | 151.4 | | | | | | |
| 3150 | 105.0 | 105.3 | 107.1 | 108.1 | 109.4 | 108.0 | 104.7 | 104.8 | 108.3 | 109.4 | 114.1 | 114.0 | 110.8 | 151.4 | | | | | | |
| 4000 | 103.0 | 103.6 | 104.1 | 104.6 | 105.7 | 107.3 | 107.2 | 106.9 | 107.6 | 108.9 | 112.6 | 112.0 | 108.6 | 150.1 | | | | | | |
| 5000 | 101.9 | 102.4 | 103.5 | 104.3 | 104.3 | 105.2 | 107.3 | 108.5 | 108.0 | 108.8 | 112.3 | 110.9 | 107.9 | 149.8 | | | | | | |
| 6300 | 100.0 | 101.5 | 102.1 | 103.6 | 104.9 | 105.3 | 106.7 | 109.1 | 109.1 | 108.2 | 111.4 | 110.0 | 107.5 | 149.2 | | | | | | |
| 8000 | 99.3 | 99.6 | 100.4 | 102.4 | 104.0 | 105.1 | 106.2 | 107.9 | 109.4 | 108.3 | 110.0 | 108.8 | 106.6 | 148.8 | | | | | | |
| 10000 | 96.7 | 99.3 | 99.9 | 100.9 | 103.4 | 103.0 | 105.7 | 106.9 | 109.6 | 107.5 | 108.5 | 108.3 | 106.3 | 146.9 | | | | | | |
| 12500 | 94.3 | 96.3 | 98.2 | 99.4 | 101.7 | 101.3 | 103.7 | 104.3 | 106.2 | 105.2 | 106.1 | 106.9 | 104.1 | 146.9 | | | | | | |
| 16000 | 91.7 | 94.7 | 96.2 | 98.6 | 100.9 | 100.5 | 102.9 | 102.4 | 105.4 | 103.4 | 104.5 | 105.0 | 102.7 | 146.4 | | | | | | |
| 20000 | 88.9 | 91.5 | 93.2 | 95.0 | 99.0 | 97.6 | 100.8 | 99.1 | 101.9 | 100.2 | 101.1 | 102.3 | 100.9 | 144.5 | | | | | | |
| 25000 | 84.8 | 88.6 | 89.5 | 91.8 | 94.5 | 94.8 | 95.8 | 96.2 | 99.3 | 96.2 | 100.3 | 97.3 | 98.6 | 142.8 | | | | | | |
| 31500 | 82.2 | 86.3 | 88.5 | 90.4 | 92.9 | 92.1 | 94.3 | 93.4 | 96.0 | 93.9 | 97.3 | 98.4 | 96.4 | 142.9 | | | | | | |
| 40000 | 74.6 | 81.3 | 84.4 | 86.2 | 88.0 | 87.5 | 89.7 | 88.7 | 91.7 | 90.9 | 94.9 | 94.7 | 91.8 | 142.2 | | | | | | |
| 50000 | 70.3 | 76.8 | 78.8 | 79.8 | 79.9 | 80.7 | 81.7 | 82.7 | 86.1 | 85.7 | 89.7 | 87.4 | 85.0 | 140.3 | | | | | | |
| 63000 | 64.6 | 69.4 | 73.3 | 73.2 | 73.2 | 73.4 | 74.2 | 76.3 | 79.9 | 80.3 | 85.6 | 81.7 | 78.9 | 141.0 | | | | | | |
| 80000 | 60.9 | 65.1 | 70.1 | 68.2 | 67.1 | 68.2 | 68.9 | 68.8 | 74.6 | 75.4 | 80.7 | 76.3 | 74.4 | 145.2 | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 114.6 114.5 114.9 115.0 115.7 115.4 116.1 117.4 119.4 121.2 126.3 128.5 126.6 | | | | | | | | | | | | | | | | | | | | |
| PND# 127.3 127.8 128.3 128.6 129.5 129.0 128.9 130.0 131.7 133.5 138.2 139.4 137.0 | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 245 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO. EGA | 40. | 50. | 50. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 84.9 | 88.2 | 90.2 | 91.5 | 91.1 | 92.2 | 95.3 | 97.2 | 98.7 | 103.3 | 110.7 | 113.4 | 114.7 | 158.0 | 160.9 | 162.6 | 163.8 |
| 63 | 87.0 | 91.3 | 91.8 | 94.7 | 95.3 | 94.8 | 96.0 | 99.1 | 102.3 | 108.4 | 115.4 | 118.0 | 117.1 | 162.6 | 163.8 | 164.8 | 165.6 |
| 80 | 89.0 | 90.6 | 92.3 | 92.1 | 93.5 | 94.8 | 96.0 | 99.1 | 102.3 | 108.4 | 115.4 | 118.0 | 117.1 | 162.6 | 163.8 | 164.8 | 165.6 |
| 100 | 89.1 | 90.2 | 91.9 | 92.7 | 94.0 | 95.7 | 97.5 | 99.9 | 103.4 | 110.5 | 117.2 | 119.1 | 117.4 | 162.6 | 163.8 | 164.8 | 165.6 |
| 125 | 90.7 | 92.5 | 92.8 | 94.3 | 95.9 | 97.0 | 98.9 | 101.3 | 105.3 | 111.1 | 118.0 | 120.2 | 118.3 | 162.6 | 163.8 | 164.8 | 165.6 |
| 160 | 93.2 | 94.0 | 94.8 | 95.8 | 97.9 | 98.5 | 99.9 | 102.3 | 106.8 | 112.1 | 118.8 | 121.0 | 119.3 | 162.6 | 163.8 | 164.8 | 165.6 |
| 200 | 97.1 | 98.4 | 98.9 | 98.6 | 99.0 | 99.9 | 101.0 | 104.1 | 107.4 | 111.7 | 118.4 | 120.3 | 119.4 | 162.6 | 163.8 | 164.8 | 165.6 |
| LDC 41 AYECCH CH | 98.4 | 99.4 | 99.0 | 99.2 | 100.6 | 101.9 | 102.6 | 105.5 | 108.5 | 112.3 | 117.7 | 121.4 | 118.7 | 162.6 | 163.8 | 164.8 | 165.6 |
| DATE 06-16-76 | 108.5 | 105.8 | 103.1 | 100.8 | 100.2 | 102.1 | 102.4 | 104.8 | 105.6 | 112.4 | 117.3 | 121.3 | 118.6 | 162.6 | 163.8 | 164.8 | 165.6 |
| RUN COMPZHIGHELW | 111.1 | 109.9 | 109.4 | 106.1 | 103.2 | 101.9 | 103.0 | 105.9 | 109.1 | 111.9 | 116.4 | 119.5 | 116.4 | 162.6 | 163.8 | 164.8 | 165.6 |
| TAPE X02450 | 109.7 | 110.2 | 110.7 | 110.5 | 109.6 | 109.6 | 109.6 | 109.6 | 109.7 | 111.1 | 116.0 | 117.9 | 114.0 | 162.6 | 163.8 | 164.8 | 165.6 |
| BAR 29.5 MS | 107.2 | 107.5 | 109.2 | 110.3 | 111.6 | 110.2 | 106.9 | 107.0 | 110.5 | 111.6 | 116.3 | 116.2 | 113.0 | 162.6 | 163.8 | 164.8 | 165.6 |
| (99648. 4/M2) | 105.3 | 105.8 | 106.3 | 106.9 | 107.9 | 109.6 | 109.4 | 109.1 | 109.8 | 111.2 | 114.9 | 116.3 | 110.8 | 162.6 | 163.8 | 164.8 | 165.6 |
| TAMB 64. DEG F | 104.1 | 104.7 | 105.7 | 106.5 | 106.6 | 107.4 | 109.6 | 110.8 | 110.2 | 111.1 | 114.5 | 113.2 | 110.2 | 162.6 | 163.8 | 164.8 | 165.6 |
| (291. DEG K) | 102.3 | 103.9 | 104.4 | 105.9 | 107.3 | 107.6 | 109.0 | 111.4 | 111.4 | 110.5 | 113.7 | 112.4 | 109.9 | 162.6 | 163.8 | 164.8 | 165.6 |
| YWET 59. DEG F | 101.8 | 102.1 | 102.9 | 104.9 | 106.5 | 107.6 | 108.7 | 110.4 | 111.9 | 110.8 | 112.5 | 111.3 | 109.1 | 162.6 | 163.8 | 164.8 | 165.6 |
| (288. DEG C) | 99.4 | 102.0 | 102.6 | 103.6 | 105.2 | 105.8 | 108.4 | 109.6 | 112.4 | 110.3 | 111.2 | 111.0 | 109.0 | 162.6 | 163.8 | 164.8 | 165.6 |
| MACT11-63 64/M3 | 97.4 | 99.4 | 101.3 | 102.5 | 104.8 | 104.4 | 106.8 | 107.4 | 109.3 | 108.2 | 109.1 | 110.0 | 107.2 | 162.6 | 163.8 | 164.8 | 165.6 |
| (.01163 KS/M3) | 95.3 | 98.3 | 99.8 | 102.2 | 104.5 | 104.1 | 106.5 | 106.0 | 109.0 | 107.1 | 108.2 | 108.7 | 106.3 | 162.6 | 163.8 | 164.8 | 165.6 |
| FREQ. SHIFF | 93.3 | 95.8 | 97.5 | 99.4 | 103.4 | 101.9 | 105.1 | 103.4 | 106.3 | 104.6 | 105.4 | 106.6 | 105.2 | 158.1 | 156.4 | 156.5 | 155.8 |
| JCT | 90.4 | 94.2 | 95.2 | 97.4 | 100.2 | 100.4 | 101.4 | 101.8 | 104.9 | 101.9 | 105.9 | 102.9 | 104.3 | 153.8 | 154.6 | 154.6 | 154.6 |
| DIAMETER RATIO | 89.4 | 93.5 | 95.7 | 97.8 | 100.1 | 99.3 | 101.5 | 100.6 | 103.2 | 101.1 | 104.5 | 103.7 | 103.6 | 153.8 | 153.8 | 153.8 | 153.8 |
| DF/DM 6.7E | 86.2 | 90.8 | 94.0 | 95.7 | 97.5 | 97.1 | 99.3 | 98.2 | 101.3 | 100.4 | 104.5 | 104.3 | 101.3 | 153.8 | 153.8 | 153.8 | 153.8 |
| OVERALL CALCULATED | 82.9 | 87.4 | 91.4 | 92.4 | 92.5 | 93.3 | 94.3 | 95.3 | 98.7 | 98.2 | 102.3 | 100.0 | 97.8 | 153.8 | 154.6 | 154.6 | 154.6 |
| | 81.6 | 86.4 | 90.4 | 90.3 | 90.3 | 90.4 | 91.3 | 93.3 | 95.9 | 97.4 | 102.6 | 98.6 | 96.0 | 154.6 | 154.6 | 154.6 | 154.6 |
| | 84.3 | 88.5 | 93.5 | 91.6 | 90.4 | 91.6 | 92.2 | 92.2 | 98.0 | 98.8 | 104.1 | 99.6 | 97.8 | 154.6 | 154.6 | 154.6 | 154.6 |
| | 116.8 | 116.7 | 117.2 | 117.4 | 119.2 | 117.9 | 118.7 | 119.9 | 122.0 | 123.5 | 128.5 | 130.6 | 128.6 | 176.9 | 176.9 | 176.9 | 176.9 |
| | 124.9 | 125.6 | 126.4 | 127.6 | 129.3 | 129.1 | 130.8 | 131.4 | 133.9 | 133.7 | 136.7 | 137.8 | 135.5 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **Z** TEST POINT **245** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL - .33m²(513in²)** SIZE

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM., DAY) | | | | | | | | | | | | | | |
|---|---------------|------|------|------|------|------|------|------|-------|------|-------|-------|------|------|
| | FREQ. (C. F.) | | | | | | | | | | | | | |
| | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | |
| FULL SIZE SOUND PRESSURE ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | |
| | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | |
| NO. EJA. (731.52 FT.) | | | | | | | | | | | | | | |
| SIDELINE 2400. FT. | 50 | 56.7 | 61.6 | 64.7 | 66.7 | 67.0 | 70.3 | 71.0 | 71.5 | 73.0 | 75.2 | 79.4 | 85.7 | 82.3 |
| NFA (0. RAD/SEC) | 80 | 60.7 | 63.8 | 66.7 | 69.2 | 70.5 | 71.5 | 74.2 | 76.7 | 81.7 | 87.4 | 82.9 | 85.7 | 83.0 |
| NFK (1. RPM) | 100 | 60.7 | 63.3 | 65.2 | 67.2 | 69.5 | 71.2 | 73.0 | 75.0 | 77.7 | 83.7 | 88.3 | 83.0 | 83.0 |
| NFL (0. RAD/SEC) | 125 | 62.2 | 65.6 | 67.3 | 69.2 | 71.3 | 72.5 | 74.3 | 76.2 | 79.5 | 84.1 | 89.5 | 83.6 | 83.6 |
| NFO (1. RPM) | 200 | 68.1 | 71.1 | 72.8 | 73.3 | 74.1 | 75.1 | 76.1 | 78.8 | 81.3 | 84.4 | 88.9 | 84.3 | 84.3 |
| NFP (0. RAD/SEC) | 250 | 69.7 | 72.0 | 73.7 | 75.1 | 75.7 | 77.5 | 80.0 | 82.2 | 84.8 | 88.5 | 89.6 | 82.6 | 82.6 |
| NFD (7500. RPM) | 315 | 79.0 | 78.1 | 76.5 | 75.1 | 74.9 | 77.0 | 77.2 | 79.1 | 82.0 | 84.6 | 87.8 | 89.1 | 82.0 |
| AIRFLOW RATIO | 400 | 81.1 | 81.7 | 82.5 | 80.1 | 77.7 | 76.5 | 77.5 | 79.9 | 82.3 | 83.6 | 86.4 | 87.0 | 79.0 |
| WFF/M 4.78 | 500 | 81.7 | 81.7 | 83.5 | 84.2 | 83.7 | 80.0 | 77.7 | 79.7 | 82.5 | 82.5 | 85.5 | 84.5 | 75.6 |
| VEHICLE CONFIG | 600 | 78.3 | 81.5 | 83.5 | 85.3 | 84.1 | 80.6 | 80.2 | 82.8 | 82.5 | 85.1 | 81.8 | 73.3 | 73.3 |
| LOC C41 AVECH CR | 800 | 75.1 | 75.9 | 77.9 | 79.4 | 81.1 | 82.8 | 82.6 | 81.7 | 81.4 | 81.3 | 82.8 | 78.7 | 69.4 |
| DATE 06-10-76 | 1000 | 73.9 | 76.5 | 78.3 | 79.0 | 80.1 | 82.0 | 82.6 | 81.1 | 80.3 | 81.3 | 76.2 | 66.7 | 66.7 |
| RUN CONF2HIGHFLW | 1250 | 72.0 | 74.2 | 76.9 | 78.8 | 79.4 | 80.6 | 82.4 | 81.2 | 78.6 | 79.2 | 73.7 | 63.8 | 63.8 |
| TAPE K02450 | 1600 | 65.3 | 68.6 | 71.3 | 74.5 | 76.8 | 78.1 | 79.1 | 80.0 | 80.3 | 77.3 | 76.0 | 70.1 | 59.3 |
| FAN TIP SPEED | 2000 | 60.6 | 66.6 | 69.3 | 71.7 | 75.0 | 74.9 | 77.3 | 77.7 | 79.1 | 74.8 | 72.4 | 66.8 | 54.8 |
| FT/SEC | 2500 | 55.3 | 61.2 | 65.6 | 68.3 | 71.5 | 71.4 | 73.5 | 73.2 | 73.6 | 70.0 | 67.0 | 61.4 | 46.5 |
| OVERALL CALCULATED | 3150 | 47.8 | 55.6 | 60.1 | 64.4 | 67.8 | 69.8 | 68.2 | 69.4 | 64.3 | 60.6 | 53.1 | 35.3 | 35.3 |
| | 4000 | 37.7 | 46.4 | 51.9 | 56.2 | 61.5 | 63.2 | 60.2 | 60.7 | 55.1 | 49.8 | 40.5 | 18.7 | 18.7 |
| | 5000 | 30.1 | 40.9 | 46.1 | 51.1 | 55.3 | 56.0 | 56.5 | 55.5 | 55.9 | 48.5 | 45.6 | 30.8 | 8.8 |
| | 6000 | 15.3 | 28.7 | 36.5 | 42.1 | 46.5 | 46.3 | 47.9 | 45.1 | 46.1 | 36.3 | 30.5 | 15.7 | 15.7 |
| | 8000 | 8.4 | 19.5 | 25.0 | 30.4 | 30.8 | 32.2 | 28.5 | 26.7 | 18.1 | 9.3 | 9.3 | 0. | 0. |
| | 10000 | 5.4 | 14.8 | 19.5 | 24.9 | 25.4 | 26.7 | 23.5 | 21.7 | 15.1 | 9.3 | 9.3 | 0. | 0. |
| | 12500 | 4.6 | 13.4 | 17.9 | 23.0 | 23.6 | 25.1 | 22.5 | 20.9 | 15.1 | 9.3 | 9.3 | 0. | 0. |
| | 16000 | 3.6 | 11.3 | 15.3 | 20.5 | 21.2 | 22.8 | 20.5 | 19.1 | 15.1 | 9.3 | 9.3 | 0. | 0. |
| OVERALL CALCULATED | 80.0 | 67.5 | 59.1 | 52.8 | 50.7 | 50.5 | 50.5 | 50.5 | 51.6 | 53.0 | 54.7 | 58.6 | 92.9 | 92.9 |
| PRES | 91.3 | 93.4 | 95.5 | 96.8 | 98.3 | 98.0 | 98.8 | 99.6 | 100.8 | 99.9 | 102.3 | 101.5 | 94.2 | 94.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 245 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(.513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 30 HR. 15.1

| RDG. NO. | NO. EGA | FREQ. | | | | | | | | | | PWL | | |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. |
| 100 | 77.6 | 87.2 | 85.2 | 86.5 | 88.5 | 88.4 | 88.3 | 79.2 | 79.9 | 91.5 | 95.4 | 95.6 | 97.9 | 135.3 |
| 125 | 77.6 | 81.9 | 83.6 | 86.2 | 87.7 | 89.1 | 89.5 | 80.4 | 80.4 | 87.9 | 96.9 | 99.1 | 99.6 | 133.5 |
| 160 | 77.6 | 80.4 | 84.4 | 84.2 | 84.8 | 85.7 | 85.3 | 77.0 | 78.4 | 94.0 | 98.2 | 100.1 | 101.7 | 136.6 |
| 200 | 80.5 | 81.3 | 82.3 | 84.3 | 85.2 | 86.3 | 87.4 | 79.6 | 82.0 | 96.1 | 100.6 | 105.0 | 106.0 | 138.3 |
| 250 | 79.3 | 83.1 | 84.3 | 84.9 | 86.2 | 87.6 | 90.0 | 82.1 | 83.3 | 98.4 | 104.6 | 107.0 | 107.8 | 140.7 |
| 315 | 81.2 | 85.4 | 84.2 | 86.5 | 88.8 | 89.9 | 91.1 | 83.0 | 85.4 | 100.5 | 106.0 | 109.4 | 109.4 | 142.5 |
| 400 | 83.7 | 85.0 | 87.0 | 87.0 | 88.8 | 90.0 | 90.8 | 83.5 | 87.2 | 103.0 | 108.5 | 111.2 | 110.0 | 146.2 |
| 500 | 83.8 | 85.0 | 86.5 | 87.6 | 89.7 | 91.0 | 92.2 | 85.1 | 88.5 | 104.6 | 109.6 | 111.5 | 110.0 | 144.9 |
| 630 | 85.1 | 86.9 | 87.9 | 89.2 | 91.0 | 92.4 | 93.8 | 86.2 | 89.6 | 104.5 | 108.4 | 112.1 | 110.6 | 145.0 |
| 800 | 87.1 | 87.7 | 88.9 | 90.7 | 92.3 | 93.4 | 94.5 | 87.4 | 91.4 | 105.5 | 109.4 | 111.1 | 109.9 | 144.9 |
| 1000 | 89.0 | 90.0 | 91.5 | 91.5 | 93.1 | 94.7 | 95.9 | 88.5 | 91.7 | 105.8 | 108.0 | 108.9 | 109.2 | 143.9 |
| 1250 | 88.0 | 89.6 | 91.8 | 92.4 | 93.4 | 95.1 | 96.2 | 89.6 | 93.1 | 105.9 | 106.6 | 109.0 | 108.8 | 143.6 |
| 1600 | 88.6 | 90.2 | 91.2 | 92.7 | 94.3 | 96.2 | 97.1 | 89.2 | 93.2 | 105.8 | 106.7 | 108.6 | 108.4 | 143.5 |
| 2000 | 89.4 | 90.0 | 92.0 | 92.8 | 94.3 | 96.0 | 97.6 | 90.0 | 93.2 | 105.8 | 105.8 | 108.4 | 107.7 | 143.2 |
| 2500 | 89.5 | 91.1 | 92.1 | 93.1 | 94.7 | 95.6 | 97.7 | 90.6 | 94.1 | 105.2 | 105.6 | 108.5 | 107.3 | 143.1 |
| 3150 | 89.7 | 91.3 | 92.6 | 94.1 | 95.2 | 96.3 | 97.9 | 91.1 | 94.8 | 106.1 | 106.1 | 108.5 | 106.5 | 143.4 |
| 4000 | 89.0 | 90.3 | 92.1 | 93.1 | 94.7 | 95.8 | 98.0 | 91.4 | 93.6 | 105.9 | 105.4 | 108.8 | 104.8 | 143.2 |
| 5000 | 88.4 | 90.4 | 91.5 | 93.5 | 94.8 | 96.2 | 98.1 | 92.0 | 93.7 | 105.3 | 105.8 | 107.9 | 104.7 | 142.9 |
| 6300 | 88.0 | 90.5 | 91.8 | 92.8 | 95.4 | 97.0 | 99.2 | 91.1 | 93.3 | 104.7 | 105.4 | 108.3 | 104.5 | 143.0 |
| 8000 | 87.5 | 89.6 | 91.4 | 93.4 | 95.7 | 96.6 | 98.7 | 91.4 | 92.9 | 105.0 | 104.7 | 108.1 | 104.6 | 143.1 |
| 10000 | 85.2 | 90.3 | 91.6 | 93.4 | 95.7 | 95.5 | 98.2 | 90.9 | 92.4 | 103.0 | 104.0 | 108.6 | 103.8 | 142.9 |
| 12500 | 83.3 | 88.6 | 90.5 | 92.7 | 94.0 | 94.6 | 97.5 | 88.8 | 90.7 | 101.2 | 102.6 | 105.4 | 102.1 | 141.6 |
| 16000 | 81.7 | 87.2 | 88.9 | 91.8 | 94.1 | 94.0 | 96.4 | 87.4 | 89.9 | 99.2 | 100.5 | 104.0 | 100.7 | 140.8 |
| 20000 | 78.9 | 83.8 | 86.7 | 89.3 | 92.8 | 91.9 | 94.8 | 84.6 | 86.9 | 95.7 | 96.6 | 101.0 | 98.4 | 139.0 |
| 25000 | 75.8 | 81.1 | 82.8 | 85.8 | 89.0 | 88.5 | 89.8 | 80.7 | 84.1 | 92.2 | 95.0 | 96.3 | 95.6 | 137.0 |
| 31500 | 72.7 | 78.5 | 81.7 | 84.2 | 86.9 | 86.6 | 88.6 | 78.4 | 80.8 | 89.6 | 91.1 | 96.2 | 93.9 | 137.3 |
| 40000 | 67.6 | 73.3 | 77.9 | 79.9 | 81.2 | 81.8 | 84.0 | 73.9 | 76.5 | 85.6 | 87.7 | 91.5 | 89.3 | 136.1 |
| 50000 | 60.8 | 66.3 | 71.3 | 73.3 | 74.1 | 74.7 | 75.7 | 66.7 | 70.1 | 79.7 | 82.2 | 83.9 | 81.7 | 133.5 |
| 63000 | 54.3 | 59.4 | 64.6 | 65.7 | 66.2 | 67.9 | 67.2 | 60.0 | 63.1 | 73.8 | 76.6 | 76.7 | 75.2 | 133.1 |
| 80000 | 49.6 | 53.8 | 60.6 | 59.4 | 59.3 | 60.7 | 61.9 | 52.6 | 56.8 | 69.7 | 71.0 | 70.8 | 70.7 | 137.1 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 100.1 | 102.2 | 103.7 | 105.1 | 106.9 | 107.9 | 109.7 | 102.2 | 105.0 | 117.4 | 119.5 | 122.1 | 120.8 |
| PNDB | | 113.1 | 114.9 | 116.2 | 117.6 | 119.0 | 120.2 | 121.9 | 114.8 | 117.8 | 129.9 | 131.0 | 133.7 | 131.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 246 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-145cm²(22.4in²) SIZE

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | ANGLE FROM INLET IN DEGREES (AND RADIAN) | O. C. G. O. | O. C. G. O. |
|--------------------|---|------|------|--|-------------|-------------|
| | 40. | 50. | 60. | | | |
| 50 | 53.2 | 58.6 | 60.9 | 62.2 | 63.9 | 65.5 |
| 63 | 55.0 | 60.9 | 60.7 | 63.7 | 66.5 | 67.8 |
| 80 | 57.5 | 60.3 | 63.4 | 64.2 | 66.5 | 67.7 |
| 100 | 57.4 | 60.3 | 62.9 | 64.7 | 67.2 | 68.7 |
| 125 | 58.7 | 62.1 | 64.2 | 66.2 | 68.5 | 70.0 |
| 150 | 60.5 | 62.7 | 65.1 | 67.6 | 69.7 | 70.9 |
| 200 | 62.1 | 64.8 | 67.5 | 68.3 | 70.4 | 72.1 |
| 250 | 61.0 | 64.2 | 67.7 | 69.1 | 71.2 | 73.2 |
| 315 | 61.2 | 64.6 | 66.8 | 69.1 | 71.2 | 73.2 |
| 400 | 61.6 | 64.0 | 67.3 | 68.9 | 71.0 | 72.7 |
| 500 | 61.2 | 64.7 | 67.0 | 68.9 | 71.0 | 72.0 |
| 630 | 60.7 | 64.3 | 67.0 | 69.5 | 71.1 | 72.3 |
| 800 | 59.1 | 62.7 | 65.9 | 67.9 | 70.1 | 71.3 |
| 1000 | 57.5 | 61.9 | 64.6 | 67.6 | 69.5 | 71.1 |
| 1250 | 55.8 | 61.0 | 64.0 | 66.1 | 69.3 | 71.1 |
| 1600 | 53.5 | 58.6 | 62.3 | 65.5 | 68.6 | 69.6 |
| 2000 | 49.1 | 57.6 | 61.1 | 64.2 | 67.3 | 67.4 |
| 2500 | 44.3 | 53.4 | 57.8 | 61.6 | 63.8 | 61.7 |
| 3150 | 37.8 | 48.1 | 52.9 | 57.7 | 61.0 | 61.2 |
| 4000 | 27.7 | 38.6 | 45.4 | 50.4 | 55.2 | 54.7 |
| 5000 | 21.2 | 33.4 | 39.6 | 45.1 | 49.8 | 49.7 |
| 6301 | 5.8 | 20.9 | 29.9 | 35.8 | 40.5 | 40.8 |
| 8000 | | 0.4 | 13.0 | 19.8 | 23.7 | 25.0 |
| 10000 | | | | | 0.8 | 2.5 |
| 12500 | | | | | | 2.4 |
| 16000 | | | | | | |
| OVERALL CALCULATED | 71.4 | 74.8 | 77.6 | 79.6 | 81.8 | 83.2 |
| PWB | 75.0 | 80.6 | 84.0 | 86.9 | 89.6 | 90.6 |

MO EGA
 SIDELINE 2400. FT.
 VFA (1. RPM
 MFK (0. RAD/SEC)
 MFD (0. RAD/SEC)
 AIRFLOW RATIO
 WFNW 4.78

VEHICLE CELL 41
 CONFIG NC59
 LOC C41 ANECH CH
 DATE 06-16-75
 RUN CONF2HIGHFLW
 TAPE ID2460
 FAN TIP SPEED FT/SEC

ACUSTIC RANGE 731.5m(2400ft.)
 SIDELINE 2 1/4
 SIZE FULL-.33m²(513in²)

ACUSTIC RANGE 76.9 79.1 90.8 91.7 91.6 86.8
 * 84.0 85.2 96.0 95.0 94.3 87.7
 * 84.0 85.2 96.0 95.0 94.3 87.7

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2
 TEST POINT 2 1/4
 ACUSTIC RANGE 731.5m(2400ft.)
 SIDELINE 2 1/4
 SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 30 HR. 15.1
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. PUL
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. PUL
 FREQ. (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)(3.00)(3.25)(3.50)(3.75)(4.00)(4.30)(4.60)(4.90)(5.20)(5.50)(5.80)(6.10)(6.50)(6.90)(7.30)(7.70)(8.10)(8.50)(9.00)(9.50)(10.00)(10.50)(11.00)(11.50)(12.00)(12.50)(13.00)(13.50)(14.00)(14.50)(15.00)(15.50)(16.00)

| RDG. NO. | NO | EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PUL | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|-------|-------|
| 100 | 83.1 | 91.9 | 90.2 | 91.7 | 93.3 | 93.2 | 92.8 | 94.2 | 95.4 | 96.0 | 100.7 | 101.1 | 103.4 | | | | | | | 136.0 | |
| 125 | 82.1 | 86.4 | 87.9 | 90.2 | 92.0 | 92.9 | 93.7 | 94.7 | 95.1 | 92.2 | 101.9 | 104.1 | 105.1 | | | | | | | 138.8 | |
| 160 | 81.9 | 84.9 | 88.7 | 88.0 | 88.8 | 89.4 | 89.0 | 89.0 | 89.0 | 92.9 | 98.0 | 102.7 | 104.6 | 107.2 | | | | | | 139.5 | |
| 200 | 84.8 | 35.0 | 86.5 | 88.6 | 89.7 | 90.3 | 91.7 | 94.1 | 97.0 | 100.6 | 105.3 | 109.8 | 111.5 | | | | | | | 143.4 | |
| 250 | 83.6 | 86.8 | 88.3 | 88.4 | 89.7 | 91.3 | 94.0 | 95.9 | 97.8 | 102.7 | 109.4 | 112.0 | 112.6 | | | | | | | 145.6 | |
| 315 | 85.2 | 90.2 | 88.2 | 90.0 | 92.6 | 93.9 | 94.6 | 96.7 | 99.7 | 105.3 | 111.7 | 115.1 | 114.9 | | | | | | | 148.2 | |
| 400 | 87.4 | 89.0 | 91.2 | 90.5 | 92.1 | 93.7 | 94.6 | 98.0 | 101.5 | 107.8 | 113.7 | 116.4 | 115.0 | | | | | | | 149.5 | |
| 500 | 88.0 | 89.0 | 90.8 | 91.6 | 93.2 | 94.8 | 96.2 | 98.8 | 102.8 | 109.4 | 115.1 | 117.2 | 115.3 | | | | | | | 150.4 | |
| 630 | 89.6 | 91.1 | 91.9 | 93.2 | 94.3 | 95.9 | 97.5 | 100.2 | 104.4 | 110.2 | 115.4 | 118.1 | 115.6 | | | | | | | 151.1 | |
| 800 | 91.4 | 92.4 | 93.2 | 94.4 | 95.8 | 97.2 | 99.0 | 101.4 | 105.4 | 111.0 | 115.7 | 118.6 | 116.9 | | | | | | | 151.8 | |
| 1000 | 94.2 | 95.2 | 96.0 | 96.0 | 97.1 | 98.7 | 99.4 | 102.5 | 106.5 | 110.8 | 114.8 | 117.4 | 116.7 | | | | | | | 151.2 | |
| 1250 | 94.0 | 95.6 | 97.1 | 96.9 | 97.9 | 99.6 | 100.7 | 103.6 | 107.6 | 110.9 | 113.9 | 118.3 | 117.3 | | | | | | | 151.6 | |
| 1600 | 97.1 | 97.4 | 96.4 | 98.0 | 99.1 | 100.2 | 101.6 | 103.7 | 108.4 | 111.0 | 114.2 | 118.9 | 117.7 | | | | | | | 152.1 | |
| 2000 | 101.4 | 101.0 | 99.7 | 98.3 | 99.3 | 100.2 | 102.1 | 104.5 | 108.7 | 110.6 | 114.8 | 118.9 | 116.2 | | | | | | | 152.0 | |
| 2500 | 103.8 | 102.8 | 101.9 | 100.7 | 100.6 | 102.0 | 105.4 | 109.1 | 110.7 | 115.1 | 117.8 | 114.3 | | | | | | | | 151.7 | |
| 3150 | 102.2 | 102.8 | 103.8 | 104.3 | 104.4 | 102.0 | 102.7 | 105.8 | 109.8 | 111.6 | 116.1 | 116.5 | 112.5 | | | | | | | 151.8 | |
| 4000 | 100.3 | 101.1 | 102.3 | 102.6 | 103.2 | 103.8 | 103.7 | 106.6 | 108.8 | 111.9 | 115.1 | 114.3 | 109.8 | | | | | | | 150.9 | |
| 5000 | 100.1 | 101.4 | 101.7 | 102.5 | 102.8 | 104.2 | 104.3 | 107.3 | 108.7 | 111.6 | 114.5 | 112.9 | 109.7 | | | | | | | 150.6 | |
| 6300 | 98.7 | 100.0 | 101.8 | 102.8 | 103.9 | 104.5 | 105.4 | 107.6 | 109.8 | 110.7 | 113.1 | 111.8 | 108.3 | | | | | | | 150.2 | |
| 8000 | 98.3 | 99.1 | 100.4 | 102.2 | 104.0 | 104.8 | 106.2 | 108.9 | 109.4 | 110.8 | 111.5 | 110.3 | 106.6 | | | | | | | 150.0 | |
| 10000 | 96.2 | 98.8 | 99.9 | 101.6 | 103.7 | 103.5 | 105.4 | 107.4 | 108.6 | 109.3 | 110.5 | 109.6 | 106.0 | | | | | | | 149.3 | |
| 12500 | 94.1 | 96.8 | 98.7 | 100.2 | 102.5 | 102.3 | 104.5 | 105.8 | 107.5 | 107.4 | 108.1 | 107.6 | 103.8 | | | | | | | 148.2 | |
| 16000 | 92.4 | 95.5 | 97.7 | 99.6 | 102.1 | 102.0 | 103.9 | 104.4 | 106.2 | 105.9 | 106.5 | 106.3 | 103.2 | | | | | | | 147.8 | |
| 20000 | 89.7 | 92.3 | 94.9 | 97.3 | 100.5 | 99.6 | 101.8 | 100.8 | 103.4 | 102.2 | 103.3 | 103.3 | 100.6 | | | | | | | 146.1 | |
| 25000 | 86.1 | 89.6 | 91.5 | 93.8 | 96.8 | 96.8 | 97.0 | 98.0 | 101.1 | 99.2 | 102.5 | 99.1 | 97.9 | | | | | | | 144.7 | |
| 31500 | 83.7 | 87.8 | 90.5 | 92.2 | 95.2 | 94.4 | 96.1 | 95.9 | 98.3 | 97.1 | 99.6 | 99.7 | 95.9 | | | | | | | 144.9 | |
| 40000 | 78.4 | 82.8 | 86.7 | 88.2 | 90.2 | 89.8 | 91.5 | 91.4 | 94.7 | 93.4 | 96.9 | 96.2 | 91.8 | | | | | | | 144.6 | |
| 50000 | 71.5 | 76.0 | 80.6 | 82.3 | 82.9 | 83.5 | 83.7 | 84.7 | 88.8 | 90.2 | 92.7 | 90.9 | 85.7 | | | | | | | 143.2 | |
| 63000 | 65.6 | 69.1 | 75.1 | 76.0 | 75.5 | 76.6 | 76.0 | 79.5 | 82.6 | 85.8 | 88.6 | 85.2 | 78.7 | | | | | | | 144.2 | |
| 80000 | 59.9 | 64.1 | 71.6 | 69.9 | 69.1 | 70.9 | 71.4 | 74.6 | 77.6 | 80.9 | 85.0 | 78.5 | 75.4 | | | | | | | 148.9 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | 163.9 |
| OVERALL CALCULATED | 110.6 | 111.3 | 112.1 | 112.9 | 114.0 | 114.3 | 115.5 | 117.8 | 120.4 | 122.9 | 126.7 | 128.9 | 127.1 | | | | | | | | |
| PNOB | 124.0 | 124.6 | 125.4 | 125.9 | 126.5 | 126.6 | 127.2 | 129.9 | 132.9 | 135.5 | 139.4 | 140.8 | 138.1 | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 247 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 3 DAY 30 HR. 15.3
DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
IN DEGREES (AND RADIAN(S))

| FREQ. | LEVELS | | | | SCALED FROM MODEL DATA | | | | ANGLES FROM IMLET | | | | PROC. DATE - MONTH 3 DAY 30 HR. 15.3 | | | | |
|--------------------|--------|--------|--------|--------|------------------------|--------|--------|--------|-------------------|--------|--------|--------|--------------------------------------|-------|-------|------|------|
| | 40. | 50. | 60. | 70. | 30. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. |
| NO EGA | (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.) |
| RDG. NO. | 50 | 85.7 | 65.9 | 90.4 | 90.5 | 91.8 | 93.4 | 96.1 | 98.0 | 99.9 | 104.8 | 111.5 | 114.2 | 114.7 | 159.2 | | |
| RADIAL 150. FT. | 63 | 87.3 | 92.3 | 90.3 | 92.1 | 94.7 | 96.0 | 96.7 | 98.8 | 101.8 | 107.4 | 113.8 | 117.3 | 117.0 | 161.8 | | |
| (45. 4) | 160 | 85.5 | 91.1 | 93.3 | 92.6 | 94.2 | 95.8 | 96.7 | 100.1 | 103.6 | 109.9 | 115.9 | 118.5 | 117.1 | 163.1 | | |
| VEHICLE CELL41 | 125 | 91.7 | 93.3 | 94.0 | 95.3 | 96.4 | 98.0 | 99.6 | 102.3 | 106.5 | 112.3 | 117.5 | 120.2 | 117.0 | 164.0 | | |
| CONFIG NCS9 | 160 | 93.5 | 94.5 | 95.3 | 96.6 | 97.9 | 99.3 | 101.2 | 103.6 | 107.5 | 113.1 | 117.8 | 120.7 | 119.0 | 165.4 | | |
| LOC C41 ANECH CH | 200 | 96.3 | 97.6 | 98.1 | 99.1 | 99.2 | 100.9 | 101.5 | 104.6 | 108.6 | 112.9 | 116.9 | 119.6 | 118.9 | 166.8 | | |
| DATE 06-16-76 | 250 | 96.2 | 97.7 | 99.2 | 99.0 | 100.1 | 101.7 | 102.8 | 105.7 | 109.7 | 113.0 | 116.0 | 119.4 | 119.4 | 165.1 | | |
| TAPE X02670 | 315 | 99.3 | 99.6 | 98.5 | 100.1 | 101.2 | 102.3 | 103.7 | 105.8 | 109.6 | 113.1 | 116.3 | 121.0 | 119.8 | 165.6 | | |
| SAR 29.5 HS | 400 | 103.6 | 103.1 | 101.9 | 103.4 | 101.5 | 102.4 | 104.2 | 106.6 | 110.9 | 112.7 | 116.9 | 121.1 | 118.4 | 165.3 | | |
| TARB (90248. N/W2) | 500 | 105.9 | 105.0 | 105.0 | 104.0 | 102.9 | 102.7 | 104.1 | 107.5 | 111.2 | 112.8 | 117.3 | 119.9 | 116.5 | 165.6 | | |
| (291. DEG K) | 630 | 104.4 | 105.0 | 106.0 | 106.5 | 106.6 | 106.4 | 104.9 | 108.0 | 112.0 | 113.8 | 118.3 | 118.7 | 114.7 | 164.5 | | |
| TWEY 59. DEG F | 800 | 102.5 | 103.3 | 104.6 | 104.9 | 105.4 | 106.1 | 105.9 | 108.9 | 111.1 | 114.2 | 117.4 | 116.5 | 112.1 | 164.1 | | |
| (288. DEG K) | 1000 | 102.4 | 103.7 | 104.0 | 104.8 | 105.1 | 106.4 | 106.6 | 109.5 | 111.0 | 113.8 | 116.8 | 115.2 | 111.9 | 164.1 | | |
| MACT1-63 CH/M3 | 1250 | 101.1 | 102.4 | 104.2 | 105.2 | 106.3 | 106.9 | 107.8 | 109.9 | 112.2 | 113.0 | 115.5 | 114.1 | 110.6 | 163.8 | | |
| (-01163 K5/M3) | 1600 | 100.8 | 101.6 | 102.9 | 104.7 | 106.5 | 107.3 | 108.7 | 111.4 | 111.9 | 113.3 | 114.0 | 112.8 | 109.1 | 163.6 | | |
| FREQ - SHIFT | 2000 | 98.9 | 101.5 | 102.5 | 104.3 | 106.4 | 106.3 | 108.2 | 110.1 | 111.4 | 112.0 | 113.2 | 112.3 | 108.8 | 162.9 | | |
| DIAMETER RATIO | 2500 | 97.2 | 99.9 | 101.3 | 103.3 | 105.6 | 105.6 | 107.6 | 108.9 | 110.6 | 110.5 | 111.1 | 110.7 | 106.9 | 161.8 | | |
| DF/UM 4.78 | 3150 | 96.1 | 99.1 | 101.3 | 103.2 | 105.7 | 105.6 | 107.5 | 108.0 | 109.8 | 109.6 | 110.2 | 109.9 | 106.8 | 161.6 | | |
| OVERALL CALCULATED | 4000 | 94.0 | 96.6 | 99.2 | 101.6 | 104.9 | 103.9 | 106.1 | 105.2 | 107.8 | 106.6 | 107.7 | 107.6 | 105.0 | 159.6 | | |
| | 5000 | 91.7 | 95.2 | 97.7 | 99.4 | 102.4 | 102.4 | 102.7 | 103.6 | 106.7 | 104.9 | 108.1 | 104.7 | 103.5 | 158.3 | | |
| | 6300 | 90.9 | 95.0 | 97.7 | 99.4 | 102.4 | 101.6 | 103.3 | 103.1 | 105.5 | 104.4 | 106.8 | 106.9 | 103.1 | 158.5 | | |
| | 8000 | 87.9 | 92.3 | 95.2 | 97.7 | 99.8 | 99.3 | 101.0 | 101.0 | 104.3 | 104.9 | 106.5 | 105.8 | 101.3 | 158.1 | | |
| | 10000 | 84.1 | 88.6 | 93.1 | 94.9 | 95.5 | 96.1 | 96.3 | 97.3 | 101.4 | 102.7 | 105.3 | 103.5 | 98.3 | 156.8 | | |
| | 12500 | 82.6 | 86.2 | 92.2 | 93.0 | 92.5 | 93.7 | 93.0 | 96.6 | 99.7 | 102.9 | 105.6 | 102.3 | 95.7 | 157.8 | | |
| | 16000 | 83.3 | 87.5 | 95.0 | 93.3 | 92.4 | 94.3 | 94.7 | 98.0 | 101.0 | 104.3 | 108.4 | 101.9 | 98.8 | 162.5 | | |
| | PND5 | 122.5 | 124.6 | 126.3 | 127.7 | 129.6 | 129.7 | 131.2 | 132.5 | 134.9 | 135.8 | 138.0 | 138.7 | 136.1 | 177.6 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2
TEST POINT 247
ACOUSTIC RANGE 45.7m(150ft.) ARC
SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 8 DAY 30 HR. 15.3

| NO ESR
SIDELINE 2400. FT.
(733.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| NO ESR | 50 | 57.5 | 62.3 | 64.9 | 65.7 | 67.4 | 69.2 | 71.7 | 73.2 | 74.4 | 78.2 | 83.3 | 83.7 |
| SIDELINE 2400. FT. | 63 | 59.0 | 65.6 | 64.7 | 67.2 | 70.3 | 71.8 | 72.3 | 74.0 | 76.2 | 80.7 | 85.6 | 86.7 |
| (733.52 M) | 80 | 61.2 | 64.3 | 67.7 | 69.7 | 71.5 | 72.2 | 75.2 | 77.9 | 83.2 | 87.5 | 87.9 | 82.9 |
| NFA (1. RPM | 125 | 63.2 | 66.3 | 67.2 | 68.7 | 70.7 | 72.5 | 73.7 | 76.0 | 79.2 | 84.7 | 88.7 | 88.0 |
| (0. RAD/SEC) | 160 | 64.8 | 67.6 | 69.3 | 71.4 | 73.2 | 74.7 | 76.4 | 78.4 | 81.6 | 89.0 | 89.3 | 83.1 |
| VFK (1. RPM | 200 | 67.4 | 70.1 | 72.0 | 72.8 | 74.4 | 76.1 | 76.6 | 79.3 | 82.5 | 85.7 | 87.9 | 88.1 |
| (0. RAD/SEC) | 250 | 67.0 | 70.2 | 72.9 | 73.5 | 75.0 | 76.8 | 77.8 | 80.2 | 83.4 | 85.6 | 86.8 | 83.6 |
| VFD (7500. RPM | 315 | 69.7 | 71.8 | 72.0 | 74.6 | 75.9 | 77.2 | 78.4 | 80.1 | 84.0 | 85.4 | 86.8 | 88.8 |
| (785. RAD/SEC) | 400 | 73.6 | 75.0 | 75.0 | 74.4 | 76.0 | 77.0 | 78.2 | 81.2 | 84.0 | 84.6 | 86.9 | 88.3 |
| AIRFLOW RATIO | 500 | 75.4 | 76.4 | 77.8 | 77.7 | 77.0 | 77.0 | 78.2 | 81.2 | 84.3 | 84.7 | 87.1 | 84.3 |
| WFA/M 4.78 | 630 | 73.2 | 75.8 | 78.3 | 79.7 | 80.3 | 78.1 | 78.6 | 81.2 | 84.3 | 84.7 | 87.1 | 84.3 |
| VEHICLE CELL41 | 800 | 70.4 | 73.4 | 76.2 | 77.6 | 78.6 | 79.3 | 79.1 | 81.4 | 82.7 | 84.3 | 85.3 | 81.0 |
| CONFIG NC59 | 1000 | 69.2 | 72.9 | 74.8 | 76.6 | 77.5 | 79.1 | 79.0 | 81.3 | 81.8 | 83.1 | 83.6 | 78.2 |
| LOC C41 ANECHOIC CH | 1250 | 66.5 | 70.5 | 74.0 | 76.1 | 77.6 | 78.6 | 79.3 | 80.9 | 82.0 | 81.1 | 80.9 | 75.4 |
| DATE 06-18-76 | 1600 | 64.3 | 68.1 | 71.3 | 74.3 | 76.8 | 77.9 | 79.1 | 81.0 | 80.3 | 79.8 | 77.5 | 71.6 |
| RUN CONF2/HIGHFLW | 2000 | 60.1 | 66.1 | 69.3 | 72.4 | 75.3 | 75.4 | 77.0 | 78.2 | 78.1 | 76.6 | 74.4 | 59.3 |
| TAPE X02670 | 2500 | 55.0 | 61.7 | 66.1 | 69.1 | 72.3 | 72.4 | 74.3 | 74.7 | 74.8 | 72.3 | 69.0 | 62.1 |
| FAN TIP SPEED | 3150 | 48.5 | 56.4 | 61.6 | 65.4 | 69.0 | 69.2 | 70.8 | 70.2 | 70.1 | 66.8 | 62.6 | 54.4 |
| FT/SEC | 4000 | 38.4 | 47.1 | 53.6 | 58.4 | 63.0 | 62.5 | 64.2 | 62.0 | 62.2 | 57.1 | 52.0 | 41.5 |
| | 5000 | 31.4 | 41.9 | 48.1 | 53.1 | 57.5 | 57.8 | 57.2 | 57.2 | 57.7 | 51.3 | 47.8 | 32.6 |
| | 6300 | 16.8 | 30.2 | 38.6 | 43.8 | 48.7 | 48.5 | 49.6 | 47.6 | 46.4 | 39.6 | 32.7 | 16.9 |
| | 8000 | 9.9 | 21.7 | 28.0 | 32.7 | 33.0 | 33.9 | 31.2 | 29.7 | 22.6 | 11.3 | | |
| | 10000 | 5.6 | 11.3 | 10.4 | 7.9 | 5.4 | | | | | | | |
| OVERALL CALCULATED | 16000 | 81.3 | 83.7 | 85.7 | 86.9 | 88.2 | 88.9 | 89.8 | 91.9 | 94.2 | 96.1 | 98.6 | 98.8 |
| | PN03 | 87.4 | 90.2 | 92.6 | 94.6 | 96.9 | 97.6 | 98.7 | 100.4 | 101.3 | 101.7 | 102.9 | 102.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 247 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 8 DAY 30 HR. 15.1
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PHL
 FREQ. (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)(3.00)(3.20)(3.40)(3.60)(3.80)(4.00)

| ROG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PHL |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|
| 100 | 85.1 | 93.7 | 91.9 | 93.5 | 95.0 | 94.4 | 95.3 | 96.2 | 97.2 | 98.0 | 101.9 | 102.9 | 105.4 | 139.8 | | | | | | |
| 125 | 83.6 | 87.9 | 89.6 | 91.9 | 94.0 | 95.9 | 96.2 | 97.4 | 95.6 | 94.4 | 103.9 | 106.6 | 107.6 | 141.2 | | | | | | |
| 150 | 84.1 | 87.2 | 90.9 | 90.5 | 90.8 | 91.2 | 91.0 | 93.5 | 95.2 | 100.2 | 105.2 | 107.4 | 109.9 | 142.1 | | | | | | |
| 200 | 87.5 | 87.0 | 88.8 | 90.8 | 91.9 | 92.8 | 94.2 | 96.3 | 99.3 | 102.9 | 107.3 | 112.3 | 114.3 | 145.9 | | | | | | |
| 250 | 85.1 | 83.6 | 90.8 | 90.6 | 92.2 | 93.3 | 95.7 | 98.1 | 99.8 | 104.4 | 111.9 | 114.8 | 115.8 | 148.3 | | | | | | |
| 315 | 87.2 | 91.9 | 90.2 | 92.2 | 94.8 | 95.7 | 96.8 | 99.0 | 101.7 | 107.8 | 114.2 | 117.4 | 117.7 | 150.6 | | | | | | |
| 400 | 89.4 | 91.0 | 93.2 | 92.3 | 94.1 | 95.2 | 96.6 | 99.3 | 103.2 | 110.0 | 116.7 | 119.2 | 117.7 | 152.2 | | | | | | |
| 500 | 90.0 | 91.0 | 92.5 | 93.6 | 94.7 | 96.8 | 98.2 | 100.3 | 104.3 | 112.1 | 118.6 | 119.7 | 117.8 | 153.3 | | | | | | |
| 630 | 91.4 | 93.1 | 93.4 | 94.7 | 96.3 | 97.6 | 99.5 | 101.9 | 105.9 | 112.5 | 118.9 | 121.1 | 118.4 | 154.1 | | | | | | |
| 800 | 94.1 | 94.4 | 94.9 | 96.7 | 97.8 | 99.2 | 100.8 | 102.7 | 107.2 | 113.2 | 119.2 | 121.1 | 119.4 | 154.5 | | | | | | |
| 1000 | 98.7 | 99.0 | 98.7 | 99.0 | 99.9 | 100.5 | 101.9 | 104.8 | 108.2 | 113.1 | 119.3 | 120.7 | 119.7 | 156.5 | | | | | | |
| 1250 | 102.8 | 101.8 | 101.3 | 100.1 | 101.2 | 102.1 | 102.9 | 105.9 | 109.1 | 113.1 | 118.4 | 121.8 | 119.6 | 156.8 | | | | | | |
| 1600 | 108.6 | 106.7 | 105.2 | 103.7 | 102.1 | 102.4 | 103.1 | 105.5 | 110.2 | 113.5 | 119.0 | 121.6 | 118.4 | 158.0 | | | | | | |
| 2000 | 108.2 | 108.0 | 108.7 | 107.8 | 106.3 | 105.4 | 104.1 | 106.5 | 110.2 | 113.8 | 119.0 | 120.9 | 116.2 | 156.9 | | | | | | |
| 2500 | 105.8 | 107.1 | 107.8 | 108.1 | 108.7 | 107.8 | 104.7 | 107.1 | 111.1 | 113.2 | 119.1 | 119.0 | 114.1 | 156.4 | | | | | | |
| 3150 | 104.2 | 105.3 | 106.3 | 107.3 | 108.9 | 108.5 | 108.2 | 108.8 | 111.6 | 114.1 | 119.3 | 117.5 | 112.8 | 154.4 | | | | | | |
| 4000 | 102.5 | 103.8 | 104.6 | 105.1 | 106.2 | 107.1 | 108.2 | 109.6 | 111.6 | 114.2 | 116.6 | 116.0 | 110.1 | 153.1 | | | | | | |
| 5000 | 101.4 | 102.7 | 104.2 | 105.3 | 106.6 | 107.3 | 107.3 | 110.8 | 111.7 | 113.8 | 115.5 | 114.2 | 109.7 | 152.5 | | | | | | |
| 6300 | 100.5 | 102.3 | 103.6 | 104.3 | 106.2 | 106.8 | 107.9 | 110.3 | 111.8 | 113.7 | 114.6 | 113.3 | 108.8 | 152.0 | | | | | | |
| 8000 | 99.8 | 100.8 | 102.2 | 103.9 | 106.5 | 106.6 | 108.0 | 110.2 | 111.9 | 113.3 | 113.5 | 112.1 | 107.1 | 152.0 | | | | | | |
| 10000 | 97.7 | 101.0 | 102.4 | 103.4 | 105.7 | 105.0 | 107.4 | 109.1 | 111.4 | 111.8 | 111.7 | 111.1 | 106.5 | 151.3 | | | | | | |
| 12500 | 95.6 | 98.8 | 101.0 | 102.4 | 104.7 | 104.8 | 107.0 | 107.1 | 109.2 | 110.2 | 109.6 | 108.9 | 104.3 | 150.1 | | | | | | |
| 16000 | 94.2 | 97.5 | 98.9 | 101.8 | 103.6 | 103.5 | 105.9 | 105.6 | 108.4 | 108.2 | 107.5 | 107.3 | 103.7 | 149.5 | | | | | | |
| 20000 | 91.4 | 94.5 | 96.9 | 98.8 | 102.3 | 101.4 | 104.0 | 102.6 | 105.4 | 105.0 | 104.3 | 104.0 | 101.6 | 147.9 | | | | | | |
| 25000 | 88.1 | 91.9 | 94.0 | 96.1 | 98.8 | 98.0 | 99.0 | 100.0 | 103.3 | 101.7 | 103.3 | 100.3 | 97.6 | 146.4 | | | | | | |
| 31500 | 85.2 | 90.0 | 92.5 | 94.9 | 97.4 | 96.4 | 98.1 | 97.4 | 100.0 | 100.1 | 100.8 | 101.2 | 96.1 | 146.8 | | | | | | |
| 40000 | 79.9 | 85.0 | 89.4 | 90.7 | 92.2 | 91.8 | 93.7 | 92.9 | 96.7 | 98.1 | 98.9 | 97.2 | 93.0 | 146.6 | | | | | | |
| 50000 | 72.8 | 78.5 | 82.8 | 84.3 | 84.6 | 85.0 | 85.7 | 87.2 | 90.8 | 93.2 | 95.2 | 91.2 | 85.7 | 145.3 | | | | | | |
| 63000 | 66.6 | 71.6 | 77.3 | 78.0 | 77.5 | 77.9 | 78.2 | 81.5 | 85.4 | 89.1 | 91.3 | 84.2 | 79.9 | 146.6 | | | | | | |
| 80000 | 60.9 | 66.1 | 73.1 | 71.9 | 71.3 | 72.4 | 74.3 | 75.3 | 81.6 | 86.7 | 87.7 | 80.3 | 74.9 | 152.3 | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | | |
| PNDB 114.8 115.2 115.9 116.3 117.4 117.3 118.2 119.9 122.5 125.4 129.9 131.3 129.0 | | | | | | | | | | | | | | | | | | | | |
| 127.1 128.0 128.7 129.2 130.4 130.3 130.6 132.5 134.9 137.9 142.5 142.6 139.1 | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 248 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PRCC. DATE - MONTH S DAY 30 MR. 15.3

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 87.2 | 90.7 | 92.9 | 92.7 | 94.3 | 95.4 | 97.8 | 100.2 | 101.9 | 106.5 | 114.0 | 116.9 | 117.9 | 161.9 | 164.2 |
| 63 | 89.3 | 94.0 | 92.3 | 94.3 | 96.9 | 97.8 | 98.9 | 101.1 | 103.5 | 109.9 | 116.3 | 119.5 | 119.6 | 165.8 | 167.7 |
| 80 | 91.5 | 93.1 | 95.3 | 94.4 | 96.2 | 97.3 | 98.7 | 101.4 | 105.3 | 112.1 | 118.9 | 121.3 | 119.8 | 166.8 | 168.1 |
| 100 | 92.1 | 93.2 | 94.7 | 95.7 | 96.8 | 98.9 | 100.3 | 102.4 | 105.4 | 114.2 | 120.7 | 121.9 | 119.9 | 167.7 | 168.4 |
| 125 | 93.5 | 95.3 | 95.5 | 96.8 | 98.4 | 99.8 | 101.6 | 104.0 | 108.0 | 114.6 | 121.0 | 123.2 | 120.5 | 168.1 | 168.6 |
| 160 | 96.2 | 96.5 | 97.0 | 98.8 | 99.9 | 101.3 | 102.9 | 104.8 | 109.3 | 115.3 | 121.4 | 122.8 | 121.5 | 168.1 | 168.4 |
| 200 | 100.8 | 101.1 | 103.9 | 101.1 | 102.0 | 102.6 | 104.0 | 106.9 | 110.4 | 115.2 | 121.4 | 122.8 | 121.9 | 168.4 | 168.6 |
| 250 | 104.9 | 103.9 | 103.5 | 105.8 | 104.2 | 104.6 | 105.2 | 107.6 | 112.3 | 115.6 | 121.1 | 123.8 | 120.6 | 168.5 | 168.6 |
| 315 | 110.8 | 108.8 | 107.3 | 105.8 | 104.2 | 104.6 | 105.2 | 107.6 | 112.3 | 115.6 | 121.1 | 123.8 | 120.6 | 168.5 | 168.6 |
| 400 | 110.3 | 110.1 | 110.9 | 109.9 | 108.5 | 108.5 | 109.6 | 109.3 | 113.2 | 115.3 | 121.3 | 121.2 | 116.2 | 168.0 | 168.0 |
| 500 | 107.9 | 109.2 | 110.0 | 110.3 | 110.9 | 111.1 | 110.7 | 110.4 | 111.0 | 113.7 | 116.3 | 121.5 | 115.0 | 166.7 | 166.7 |
| 630 | 106.4 | 107.5 | 108.5 | 109.5 | 111.1 | 110.7 | 110.4 | 111.9 | 113.8 | 116.4 | 118.9 | 118.3 | 112.3 | 166.1 | 166.1 |
| 800 | 104.8 | 106.1 | 106.8 | 107.4 | 108.4 | 109.3 | 110.4 | 111.9 | 113.8 | 116.4 | 118.9 | 118.3 | 112.3 | 165.9 | 165.9 |
| 1000 | 103.6 | 104.9 | 106.5 | 107.5 | 108.5 | 109.1 | 110.3 | 112.7 | 114.2 | 116.0 | 117.0 | 115.6 | 111.1 | 165.9 | 165.9 |
| 1250 | 102.8 | 104.6 | 105.9 | 106.7 | 108.5 | 109.1 | 110.5 | 112.7 | 114.2 | 116.0 | 117.0 | 115.6 | 111.1 | 164.9 | 164.9 |
| 1600 | 102.3 | 103.3 | 104.7 | 106.4 | 109.0 | 109.1 | 110.5 | 112.7 | 114.2 | 116.0 | 117.0 | 115.6 | 111.1 | 163.7 | 163.7 |
| 2000 | 100.4 | 103.8 | 105.1 | 106.1 | 108.4 | 107.8 | 110.2 | 111.8 | 114.1 | 114.5 | 114.4 | 113.8 | 109.3 | 163.1 | 163.1 |
| 2500 | 98.7 | 101.9 | 104.1 | 105.5 | 107.8 | 107.8 | 110.1 | 110.2 | 112.3 | 113.2 | 112.6 | 112.0 | 107.4 | 161.4 | 161.4 |
| 3150 | 97.8 | 101.1 | 102.5 | 105.5 | 107.2 | 107.1 | 109.5 | 109.3 | 112.0 | 111.8 | 111.2 | 110.9 | 107.3 | 160.0 | 160.0 |
| 4000 | 95.8 | 98.8 | 101.2 | 103.1 | 106.6 | 105.7 | 108.4 | 106.9 | 109.8 | 109.3 | 108.7 | 108.3 | 106.0 | 160.4 | 160.4 |
| 5000 | 93.7 | 97.5 | 99.7 | 101.7 | 104.4 | 103.6 | 104.7 | 105.6 | 108.9 | 107.4 | 108.9 | 105.9 | 103.3 | 158.9 | 158.9 |
| 6300 | 92.4 | 97.2 | 99.7 | 102.1 | 104.6 | 103.6 | 104.7 | 105.6 | 108.9 | 107.4 | 108.9 | 105.9 | 103.3 | 160.2 | 160.2 |
| 8000 | 89.4 | 94.6 | 99.0 | 100.2 | 101.8 | 101.3 | 103.3 | 102.5 | 106.3 | 107.7 | 108.5 | 106.8 | 102.6 | 165.9 | 165.9 |
| 10000 | 85.4 | 91.1 | 95.4 | 96.9 | 97.2 | 97.6 | 98.3 | 99.8 | 103.4 | 105.7 | 107.8 | 103.8 | 98.3 | 165.9 | 165.9 |
| 12500 | 83.6 | 89.7 | 94.4 | 95.0 | 94.5 | 94.9 | 95.3 | 98.6 | 102.4 | 106.1 | 109.4 | 101.3 | 97.0 | 160.0 | 160.0 |
| 16000 | 84.3 | 89.5 | 95.5 | 95.3 | 94.7 | 95.8 | 97.7 | 98.7 | 105.0 | 110.1 | 111.1 | 103.6 | 98.3 | 165.9 | 165.9 |
| PMDS | 125.6 | 127.3 | 128.8 | 130.3 | 132.0 | 131.8 | 133.5 | 134.2 | 137.0 | 138.4 | 140.2 | 140.6 | 137.2 | 160.0 | 160.0 |
| OVERALL CALCULATED | | | | | | | | | | | | | | | |

RCG. NO. 0. NO ESA
 RADIAL 150. FT.
 VEHICLE CELL 41
 CONFIG NC59
 LOC C41 ANECH CH
 DATE 06-16-76
 RUN CONF2HIGHFLW
 TAPE X02480
 BAR 29.4 HG
 (99616 V/M2)
 YAMB 64. DEG F
 (291. DEG K)
 TWET 59. DEG F
 (288. DEG K)
 MACT 11.63 GM/M3
 (.01163 G/M3)
 FREQ. SHIFT
 JET 7
 DIAMETER RATIO
 DF/DH 4.78

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2
 TEST POINT 248
 ACOUSTIC RANGE 45.7m(150ft.) ARC
 SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 59.0 | 64.1 | 67.9 | 69.9 | 71.2 | 73.4 | 75.4 | 76.4 | 79.9 | 85.8 | 86.5 | 84.1 | |
| 53 | 61.0 | 67.4 | 69.5 | 72.5 | 73.5 | 74.5 | 76.2 | 78.2 | 83.2 | 88.1 | 89.0 | 85.8 | |
| 60 | 63.2 | 69.3 | 69.5 | 71.7 | 73.0 | 74.2 | 76.5 | 79.7 | 85.4 | 90.5 | 90.6 | 85.6 | |
| 100 | 63.7 | 66.3 | 68.9 | 70.7 | 72.2 | 74.5 | 77.5 | 80.7 | 87.4 | 92.2 | 91.1 | 85.5 | |
| 125 | 64.9 | 68.3 | 69.7 | 71.7 | 73.8 | 75.3 | 77.0 | 79.0 | 82.2 | 87.6 | 92.3 | 85.9 | |
| 160 | 67.5 | 69.4 | 71.1 | 73.6 | 75.2 | 76.7 | 78.2 | 79.6 | 83.3 | 88.3 | 92.6 | 86.5 | |
| 200 | 71.9 | 73.8 | 74.8 | 75.8 | 77.1 | 77.9 | 79.1 | 81.6 | 84.3 | 87.9 | 92.4 | 86.5 | |
| 250 | 75.7 | 76.5 | 77.2 | 76.7 | 78.3 | 79.3 | 80.0 | 82.5 | 84.9 | 87.8 | 91.3 | 85.8 | |
| 315 | 81.2 | 81.1 | 80.8 | 80.1 | 78.9 | 79.5 | 79.9 | 81.9 | 85.8 | 87.9 | 91.5 | 91.6 | 84.0 |
| 400 | 80.3 | 82.0 | 82.0 | 83.9 | 83.0 | 80.2 | 80.7 | 82.6 | 85.5 | 87.8 | 91.2 | 90.3 | 81.0 |
| 500 | 77.4 | 80.7 | 82.8 | 83.9 | 85.0 | 84.3 | 81.0 | 82.9 | 85.0 | 86.8 | 90.8 | 87.7 | 77.8 |
| 630 | 75.2 | 78.3 | 80.8 | 82.7 | 84.8 | 84.6 | 84.1 | 86.2 | 86.0 | 87.2 | 90.3 | 85.3 | 75.3 |
| 800 | 72.6 | 76.2 | 78.4 | 79.9 | 81.6 | 82.6 | 83.6 | 84.4 | 86.4 | 86.3 | 86.8 | 82.7 | 70.9 |
| 1000 | 70.5 | 74.2 | 77.3 | 79.3 | 80.3 | 81.3 | 82.0 | 84.8 | 84.8 | 85.3 | 84.6 | 79.5 | 68.5 |
| 1250 | 68.3 | 72.7 | 75.7 | 77.6 | 80.1 | 80.9 | 81.8 | 83.6 | 84.0 | 84.1 | 82.4 | 76.9 | 65.0 |
| 1600 | 65.8 | 69.8 | 73.1 | 76.0 | 79.3 | 79.6 | 80.8 | 82.3 | 82.8 | 82.3 | 79.5 | 73.4 | 59.8 |
| 2000 | 61.6 | 68.3 | 71.8 | 74.2 | 77.3 | 76.9 | 79.0 | 80.8 | 82.3 | 82.3 | 79.5 | 73.4 | 59.8 |
| 2500 | 56.5 | 63.7 | 68.3 | 71.3 | 74.5 | 74.9 | 76.8 | 76.0 | 76.6 | 75.0 | 70.5 | 63.4 | 46.7 |
| 3150 | 50.3 | 58.4 | 62.9 | 67.7 | 70.5 | 70.7 | 72.8 | 71.5 | 72.4 | 69.1 | 63.6 | 55.4 | 36.3 |
| 4000 | 40.2 | 49.4 | 55.6 | 59.9 | 64.7 | 64.2 | 66.5 | 63.7 | 64.2 | 59.9 | 53.0 | 42.3 | 19.5 |
| 5000 | 33.4 | 44.1 | 50.6 | 55.4 | 59.5 | 59.2 | 59.8 | 59.2 | 59.9 | 54.0 | 48.6 | 33.8 | 7.8 |
| 6300 | 18.3 | 32.4 | 40.6 | 46.6 | 51.0 | 50.5 | 51.6 | 49.1 | 48.1 | 42.6 | 34.0 | 18.4 | |
| 8000 | | 12.2 | 24.5 | 30.5 | 34.7 | 35.0 | 36.2 | 32.7 | 31.7 | 25.3 | 13.3 | | |
| 10000 | | | | 7.4 | 11.3 | 12.8 | 12.4 | 10.4 | 7.4 | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 86.4 | 88.3 | 90.1 | 91.0 | 92.2 | 92.3 | 92.6 | 94.2 | 96.1 | 98.6 | 102.2 | 101.4 | 95.3 |
| PND3 | 91.6 | 94.4 | 95.3 | 98.0 | 99.8 | 100.0 | 101.1 | 102.2 | 103.5 | 104.2 | 106.2 | 104.3 | 96.7 |

NO ESA
 SIDELINE 2400. FT.
 (731.52 ft)
 NFA (0. RAD/SEC)
 VFK (1. RPM)
 MFD (0. RAD/SEC)
 (7500. RPM)
 AIRFLOW RATIO
 WF/WA 4.78
 VEHICLE CELL41
 CONFIG VCS9
 LOC C41 ANECH CH
 DATE 05-16-76
 RUN CONF2HIGHFLW
 TAPE M02480
 FAN TIP SPEED
 FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 278 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROG. DATE - MONTH 3 DAY 30 HR. 15.3
(59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | PWL |
|-------|--|-------|-------|-------|---------|
| | 45 | 53 | 60 | 70 | |
| 50 | 87.9 | 91.7 | 93.6 | 94.0 | 120.130 |
| 63 | 89.8 | 94.5 | 95.3 | 97.7 | 140.150 |
| 80 | 92.3 | 93.8 | 95.6 | 97.2 | 160.160 |
| 100 | 93.4 | 93.9 | 95.7 | 97.8 | 166.8 |
| 125 | 95.0 | 96.0 | 96.2 | 97.8 | 167.8 |
| 160 | 97.7 | 97.3 | 98.6 | 100.4 | 168.7 |
| 200 | 103.1 | 102.6 | 102.4 | 102.9 | 169.7 |
| 250 | 106.9 | 106.4 | 106.5 | 106.7 | 169.7 |
| 315 | 112.0 | 111.1 | 109.3 | 107.8 | 170.2 |
| 400 | 110.3 | 110.4 | 111.5 | 111.1 | 170.2 |
| 500 | 108.4 | 109.2 | 109.7 | 110.3 | 169.8 |
| 630 | 107.7 | 107.7 | 109.3 | 109.6 | 169.3 |
| 800 | 106.3 | 106.6 | 107.8 | 109.2 | 169.2 |
| 1000 | 105.6 | 106.7 | 107.5 | 108.5 | 167.9 |
| 1250 | 105.1 | 106.4 | 107.9 | 110.0 | 167.7 |
| 1600 | 104.2 | 105.8 | 106.7 | 108.2 | 167.3 |
| 2000 | 102.9 | 105.8 | 106.1 | 108.1 | 166.9 |
| 2500 | 101.1 | 103.9 | 105.5 | 107.0 | 166.3 |
| 3150 | 100.1 | 103.1 | 104.0 | 106.7 | 164.9 |
| 4000 | 98.0 | 102.6 | 104.3 | 106.1 | 164.3 |
| 5000 | 96.1 | 100.0 | 102.6 | 104.9 | 161.7 |
| 6300 | 95.1 | 98.9 | 101.4 | 103.1 | 162.1 |
| 8000 | 92.1 | 96.5 | 100.6 | 101.7 | 162.1 |
| 10000 | 88.1 | 93.3 | 97.6 | 99.1 | 161.5 |
| 12500 | 85.8 | 90.6 | 96.3 | 97.4 | 163.3 |
| 16000 | 85.5 | 90.9 | 96.4 | 97.5 | 171.5 |
| PNDS | 127.1 | 129.0 | 130.2 | 131.6 | 181.7 |

OVERALL CALCULATED 118.6 118.8 119.5 120.1 121.2 121.1 122.0 123.5 126.2 129.5 134.4 134.4 131.6 142.7 141.2 137.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 284 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL - .33m²(513in²)
SIZE

| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | 0. (0.) (0.) (0.) (0.) | | | |
|-----------------------------------|---|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|----------------------------|--------|--------|--------|
| | 40. | 50. | 70. | 80. | 90. | | 100. | 110. | 120. | 130. | 140. | | 150. | | |
| NO EGA | (0.70) | (0.37) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.96) | (3.13) |
| SIDELINE (2400. FT.) (731.52 ft.) | 50 | 59.7 | 65.1 | 67.9 | 69.2 | 70.7 | 72.2 | 74.9 | 76.4 | 77.9 | 81.2 | 87.0 | 87.5 | 86.6 | 84.6 |
| VFA (0. RAD/SEC) | 63 | 61.5 | 67.1 | 67.5 | 70.5 | 73.3 | 74.8 | 75.3 | 77.0 | 79.2 | 83.9 | 88.6 | 89.7 | 86.3 | 86.4 |
| NFK (1. RPM) | 100 | 64.9 | 67.1 | 69.9 | 71.2 | 73.2 | 75.2 | 76.0 | 78.7 | 81.9 | 88.7 | 92.7 | 92.3 | 86.8 | 88.0 |
| MFD (0. RAD/SEC) | 160 | 66.4 | 69.1 | 71.0 | 73.3 | 74.5 | 76.5 | 77.8 | 80.0 | 83.0 | 88.6 | 93.5 | 93.3 | 87.1 | 88.0 |
| (785. REV/SEC) | 200 | 69.0 | 70.7 | 72.8 | 74.1 | 75.7 | 77.2 | 78.7 | 81.1 | 84.6 | 90.0 | 94.3 | 93.8 | 88.0 | 88.0 |
| AIRFLOW RATIO WF/WB 4.78 | 250 | 79.7 | 79.0 | 80.2 | 81.5 | 82.3 | 83.5 | 85.0 | 86.4 | 89.3 | 94.0 | 93.9 | 86.1 | 86.1 | 86.1 |
| VEHICLE CELL41 | 315 | 82.5 | 83.3 | 82.1 | 80.2 | 80.7 | 80.9 | 82.9 | 86.5 | 89.1 | 94.5 | 92.6 | 84.3 | 84.3 | 84.3 |
| CONFIG MC59 | 400 | 80.8 | 82.2 | 84.8 | 85.1 | 85.0 | 87.0 | 87.6 | 87.0 | 88.8 | 94.2 | 90.0 | 80.5 | 80.5 | 80.5 |
| LOC C41 AVECH CH | 500 | 77.9 | 80.7 | 82.5 | 84.4 | 86.2 | 85.8 | 83.0 | 83.9 | 82.3 | 88.3 | 93.5 | 87.2 | 77.6 | 77.6 |
| DATE 06-16-76 | 630 | 76.5 | 78.6 | 81.5 | 83.0 | 84.8 | 85.1 | 85.3 | 85.5 | 87.5 | 89.2 | 92.3 | 85.1 | 74.5 | 74.5 |
| RUN CONF2HIGHFLW | 800 | 74.1 | 76.7 | 79.4 | 81.2 | 82.3 | 82.8 | 84.3 | 85.9 | 86.4 | 88.5 | 88.8 | 82.2 | 70.9 | 70.9 |
| TAPE X02840 | 1250 | 70.5 | 74.5 | 77.7 | 79.1 | 81.6 | 82.3 | 83.5 | 85.6 | 86.3 | 87.8 | 87.1 | 79.7 | 68.2 | 68.2 |
| FAN TIP SPEED FT/SEC | 2000 | 64.1 | 70.3 | 72.8 | 75.1 | 77.8 | 79.8 | 80.9 | 82.3 | 82.8 | 83.8 | 81.5 | 73.6 | 60.0 | 60.0 |
| | 2500 | 59.0 | 65.7 | 68.9 | 72.8 | 75.8 | 78.9 | 79.8 | 81.2 | 81.6 | 80.8 | 78.1 | 69.6 | 55.5 | 55.5 |
| | 3150 | 52.5 | 60.4 | 64.3 | 68.9 | 72.2 | 73.7 | 72.2 | 72.2 | 72.2 | 76.2 | 72.2 | 63.9 | 47.7 | 47.7 |
| | 4000 | 42.4 | 51.1 | 57.6 | 61.1 | 66.2 | 65.9 | 67.7 | 65.2 | 65.1 | 61.8 | 57.7 | 42.5 | 19.2 | 19.2 |
| | 5000 | 35.8 | 46.6 | 51.6 | 56.6 | 60.7 | 60.9 | 61.0 | 60.2 | 60.4 | 56.5 | 52.3 | 33.8 | 9.0 | 9.0 |
| | 6300 | 21.0 | 34.1 | 42.3 | 47.5 | 51.9 | 53.1 | 50.3 | 49.1 | 44.5 | 38.0 | 33.8 | 19.1 | 19.1 | 19.1 |
| | 8000 | 14.1 | 25.9 | 31.9 | 35.8 | 36.4 | 37.6 | 34.4 | 33.2 | 27.2 | 27.2 | 27.2 | 17.5 | 17.5 | 17.5 |
| | 10000 | 1.5 | 9.6 | 13.3 | 14.5 | 14.4 | 11.5 | 8.8 | 2.1 | | | | | | |
| | 12500 | | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 87.8 | 89.4 | 91.7 | 92.1 | 93.2 | 93.3 | 93.7 | 95.2 | 97.3 | 100.1 | 104.1 | 102.5 | 96.3 | 96.3 | 96.3 |
| PH88 | 93.0 | 95.4 | 97.9 | 99.3 | 101.0 | 101.3 | 102.2 | 103.2 | 104.6 | 105.8 | 105.6 | 105.3 | 97.2 | 97.2 | 97.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION *2* TEST POINT *284* ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| RDG. NO. | 0. | 63 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 75.9 | 85.7 | 83.4 | 84.7 | 86.5 | 86.4 | 86.5 | 87.5 | 86.2 | 90.7 | 93.7 | 92.6 | 95.7 |
| 125 | 79.6 | 79.9 | 81.6 | 84.2 | 86.0 | 86.9 | 87.0 | 88.2 | 87.4 | 86.9 | 94.6 | 96.1 | 96.6 |
| 160 | 76.4 | 79.2 | 81.7 | 82.2 | 83.0 | 84.0 | 85.0 | 85.5 | 87.7 | 92.7 | 96.9 | 97.6 | 99.2 |
| 200 | 79.5 | 79.8 | 81.3 | 83.8 | 84.2 | 85.0 | 85.9 | 84.3 | 91.3 | 95.6 | 99.6 | 103.0 | 103.8 |
| 250 | 78.8 | 81.3 | 82.8 | 83.4 | 85.2 | 86.3 | 88.0 | 89.9 | 92.6 | 97.9 | 103.1 | 104.3 | 105.3 |
| 315 | 80.2 | 84.4 | 83.9 | 86.0 | 88.3 | 89.2 | 89.8 | 92.2 | 95.4 | 100.5 | 106.0 | 108.4 | 107.7 |
| 400 | 82.2 | 84.0 | 85.7 | 86.5 | 88.1 | 89.7 | 89.8 | 93.5 | 97.5 | 103.8 | 108.7 | 109.7 | 109.0 |
| 500 | 83.3 | 84.0 | 85.8 | 86.8 | 88.2 | 89.5 | 91.7 | 94.3 | 98.0 | 104.6 | 109.8 | 110.2 | 109.0 |
| 630 | 84.4 | 85.9 | 86.9 | 88.7 | 90.5 | 91.1 | 92.8 | 95.4 | 99.4 | 104.5 | 108.9 | 110.6 | 109.1 |
| 800 | 85.6 | 87.4 | 87.7 | 89.4 | 91.0 | 92.4 | 93.5 | 96.7 | 100.7 | 106.0 | 109.2 | 109.6 | 107.4 |
| 1000 | 86.7 | 88.7 | 90.2 | 91.3 | 92.1 | 93.5 | 94.4 | 98.0 | 101.7 | 105.6 | 108.5 | 107.9 | 106.2 |
| 1250 | 86.5 | 88.6 | 91.3 | 91.4 | 92.7 | 94.6 | 95.4 | 99.1 | 103.1 | 106.6 | 108.1 | 109.0 | 106.1 |
| 1600 | 86.4 | 89.4 | 89.9 | 91.7 | 93.3 | 95.2 | 96.1 | 98.5 | 103.9 | 107.0 | 108.5 | 108.9 | 106.9 |
| 2000 | 87.2 | 89.5 | 91.5 | 92.0 | 93.6 | 95.0 | 96.8 | 100.5 | 104.0 | 106.8 | 108.5 | 109.2 | 105.7 |
| 2500 | 86.0 | 89.3 | 90.8 | 92.1 | 94.2 | 95.3 | 96.7 | 100.4 | 104.8 | 105.9 | 107.4 | 109.0 | 106.1 |
| 3150 | 87.0 | 89.5 | 91.8 | 93.3 | 94.9 | 95.8 | 97.7 | 101.3 | 105.1 | 106.4 | 107.8 | 109.5 | 105.8 |
| 4000 | 86.5 | 88.8 | 91.8 | 92.6 | 93.9 | 95.8 | 98.7 | 102.1 | 104.8 | 106.4 | 107.4 | 108.8 | 104.3 |
| 5000 | 86.1 | 88.9 | 91.7 | 93.5 | 94.8 | 96.9 | 98.8 | 102.8 | 104.2 | 106.1 | 107.8 | 107.9 | 104.4 |
| 6300 | 86.0 | 89.0 | 92.1 | 93.8 | 96.2 | 98.3 | 100.7 | 102.6 | 104.3 | 105.2 | 107.4 | 107.5 | 103.3 |
| 8000 | 86.0 | 88.6 | 91.7 | 94.4 | 96.7 | 99.1 | 102.2 | 103.7 | 103.9 | 105.3 | 106.5 | 106.8 | 103.3 |
| 10000 | 84.9 | 90.3 | 93.1 | 95.1 | 98.2 | 98.8 | 102.4 | 103.6 | 103.4 | 104.0 | 105.0 | 106.3 | 103.0 |
| 12500 | 83.1 | 89.4 | 92.7 | 94.7 | 96.5 | 97.9 | 101.2 | 102.3 | 102.0 | 102.2 | 102.8 | 104.9 | 102.1 |
| 16000 | 81.7 | 88.0 | 91.2 | 93.6 | 96.6 | 96.5 | 99.9 | 99.6 | 101.2 | 100.7 | 101.3 | 103.8 | 100.7 |
| 20000 | 78.7 | 84.5 | 88.4 | 90.8 | 93.5 | 94.9 | 98.0 | 96.4 | 98.4 | 97.5 | 98.1 | 100.3 | 98.4 |
| 25000 | 75.6 | 81.9 | 84.1 | 87.6 | 90.8 | 91.3 | 92.8 | 93.2 | 96.1 | 94.5 | 95.6 | 95.4 | 95.4 |
| 31500 | 72.7 | 79.0 | 82.8 | 85.9 | 88.6 | 88.6 | 91.6 | 91.2 | 93.0 | 91.2 | 91.9 | 95.5 | 92.4 |
| 40000 | 67.1 | 74.0 | 78.7 | 81.2 | 83.5 | 84.3 | 87.3 | 86.7 | 88.7 | 89.2 | 88.7 | 91.5 | 88.6 |
| 50000 | 59.8 | 66.8 | 71.8 | 74.6 | 75.7 | 77.2 | 78.8 | 80.0 | 82.1 | 82.4 | 84.8 | 83.7 | 80.8 |
| 63000 | 52.3 | 59.7 | 66.1 | 67.5 | 67.7 | 69.7 | 71.5 | 73.3 | 75.7 | 78.1 | 79.1 | 76.5 | 74.7 |
| 80000 | 44.4 | 54.1 | 61.1 | 60.2 | 60.6 | 63.2 | 67.6 | 67.1 | 70.4 | 71.5 | 75.2 | 69.5 | 69.0 |
| OVERALL MEASURED | | | | | | | | | | | | | |
| OVERALL CALCULATED | 98.2 | 101.4 | 103.6 | 105.3 | 107.4 | 108.7 | 111.1 | 113.2 | 115.6 | 118.0 | 120.4 | 121.3 | 119.2 |
| PROB | 110.8 | 113.5 | 115.6 | 117.1 | 118.8 | 120.2 | 122.3 | 125.3 | 128.2 | 130.3 | 132.4 | 133.6 | 130.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2
 TEST POINT 2107
 ACOUSTIC RANGE 12.2m(40ft.) ARC
 SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | | PROC. DATE - MONTH 8 DAY 30 HR. 15.3 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|---------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| RDG. NO. D. | RADIAL 150. FT. (45. M) | VEHICLE | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | | | | | | PWL | | | | | | | | | | | | |
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. | 160. | | | | | | | | | |
| 50 | 50.9 | 83.4 | (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) | (2.97) | (3.14) | 152.4 | | | | | | | |
| 53 | 52.3 | 86.5 | | | | | | | | | | | | | | | | 155.5 | | | | | | | |
| 80 | 84.3 | 86.1 | | | | | | | | | | | | | | | | 157.4 | | | | | | | |
| 100 | 85.4 | 89.2 | | | | | | | | | | | | | | | | 158.1 | | | | | | | |
| 125 | 86.5 | 90.0 | | | | | | | | | | | | | | | | 158.0 | | | | | | | |
| 160 | 87.7 | 89.5 | | | | | | | | | | | | | | | | 159.0 | | | | | | | |
| 200 | 88.3 | 90.9 | | | | | | | | | | | | | | | | 157.9 | | | | | | | |
| 250 | 88.7 | 90.7 | | | | | | | | | | | | | | | | 158.2 | | | | | | | |
| 315 | 88.5 | 91.6 | | | | | | | | | | | | | | | | 158.3 | | | | | | | |
| 400 | 89.3 | 91.6 | | | | | | | | | | | | | | | | 158.3 | | | | | | | |
| 500 | 89.2 | 91.5 | | | | | | | | | | | | | | | | 158.1 | | | | | | | |
| 630 | 89.2 | 91.7 | | | | | | | | | | | | | | | | 158.6 | | | | | | | |
| 800 | 88.8 | 91.1 | | | | | | | | | | | | | | | | 158.4 | | | | | | | |
| 1000 | 88.4 | 91.2 | | | | | | | | | | | | | | | | 158.3 | | | | | | | |
| 1250 | 86.3 | 91.4 | | | | | | | | | | | | | | | | 158.5 | | | | | | | |
| 1600 | 88.5 | 91.1 | | | | | | | | | | | | | | | | 157.4 | | | | | | | |
| 2000 | 87.7 | 93.0 | | | | | | | | | | | | | | | | 156.8 | | | | | | | |
| 2500 | 86.2 | 92.4 | | | | | | | | | | | | | | | | 155.1 | | | | | | | |
| 3150 | 85.3 | 91.6 | | | | | | | | | | | | | | | | 153.0 | | | | | | | |
| 4000 | 83.0 | 88.9 | | | | | | | | | | | | | | | | 152.3 | | | | | | | |
| 5000 | 81.2 | 87.5 | | | | | | | | | | | | | | | | 149.8 | | | | | | | |
| 6300 | 79.9 | 86.3 | | | | | | | | | | | | | | | | 149.9 | | | | | | | |
| 8000 | 76.7 | 83.6 | | | | | | | | | | | | | | | | 153.8 | | | | | | | |
| 10000 | 72.4 | 79.4 | | | | | | | | | | | | | | | | 171.0 | | | | | | | |
| 12500 | 69.4 | 76.7 | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | 57.8 | 77.5 | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | 100.5 | 103.8 | 106.3 | 108.0 | 110.3 | 111.5 | 114.0 | 115.9 | 118.1 | 120.3 | 122.6 | 123.6 | 121.3 |
| PNDB | | | | | | | | | | | | | 111.2 | 116.0 | 118.9 | 121.1 | 123.7 | 124.3 | 127.0 | 128.3 | 129.9 | 130.7 | 132.0 | 133.6 | 130.9 |
| DIAMETER RATIO | | | | | | | | | | | | | | | | | | | | | | | | | |
| DF/DM | | | | | | | | | | | | | 4.78 | | | | | | | | | | | | |
| JET | | | | | | | | | | | | | 7 | | | | | | | | | | | | |
| TAMB | | | | | | | | | | | | | 63. DEG. F. | | | | | | | | | | | | |
| (290. DEG. K) | | | | | | | | | | | | | | | | | | | | | | | | | |
| TMET | | | | | | | | | | | | | 59. DEG. F. | | | | | | | | | | | | |
| (258. DEG. K) | | | | | | | | | | | | | | | | | | | | | | | | | |
| HACT | | | | | | | | | | | | | 11.42 GH/M3 | | | | | | | | | | | | |
| (.01142 KG/M3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| FREQ. SHIFT | | | | | | | | | | | | | 7 | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION Σ TEST POINT 2/07 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

| NO. EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(U. RPM) | NFK
(U. RPM) | NFD
(O. RAD/SEC) | AIRFLOW RATIO
WF/WM 6.78 | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|--------------------|----------------------------------|------------------|------------------|----------------------|-----------------------------|---|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| 50 | 52.7 | 56.8 | 59.4 | 60.7 | 62.9 | 64.2 | 65.7 | 67.2 | 69.2 | 73.4 | 77.0 | 76.0 | 73.6 | 160. | 0. | 0. | 0. |
| 63 | 54.0 | 59.9 | 50.5 | 63.2 | 66.0 | 67.5 | 67.5 | 70.7 | 73.9 | 79.2 | 82.5 | 81.1 | 76.9 | 160. | 0. | 0. | 0. |
| 80 | 56.0 | 59.3 | 62.2 | 63.7 | 65.7 | 68.2 | 68.2 | 69.2 | 71.5 | 74.4 | 79.9 | 83.5 | 81.6 | 160. | 0. | 0. | 0. |
| 100 | 56.9 | 59.3 | 62.2 | 64.0 | 65.7 | 68.0 | 70.3 | 72.5 | 75.7 | 79.6 | 82.5 | 81.3 | 76.8 | 160. | 0. | 0. | 0. |
| 125 | 57.9 | 61.1 | 63.2 | 65.7 | 68.0 | 69.9 | 70.9 | 73.6 | 76.8 | 81.0 | 82.6 | 80.6 | 74.5 | 160. | 0. | 0. | 0. |
| 160 | 59.0 | 62.4 | 63.8 | 66.4 | 68.4 | 69.9 | 71.6 | 74.8 | 77.8 | 80.7 | 81.7 | 78.6 | 73.0 | 160. | 0. | 0. | 0. |
| 200 | 59.9 | 63.6 | 66.3 | 68.1 | 69.4 | 70.9 | 71.6 | 74.8 | 77.8 | 80.7 | 81.7 | 78.6 | 73.0 | 160. | 0. | 0. | 0. |
| 250 | 59.5 | 63.2 | 67.2 | 68.0 | 69.8 | 71.8 | 72.5 | 75.7 | 78.9 | 81.3 | 81.0 | 79.4 | 72.3 | 160. | 0. | 0. | 0. |
| 315 | 59.0 | 63.8 | 65.5 | 68.1 | 70.2 | 72.2 | 72.9 | 74.9 | 79.5 | 81.4 | 81.0 | 78.8 | 72.5 | 160. | 0. | 0. | 0. |
| 400 | 59.3 | 63.5 | 66.8 | 68.1 | 70.2 | 71.7 | 73.5 | 76.6 | 79.3 | 80.8 | 80.7 | 78.5 | 70.5 | 160. | 0. | 0. | 0. |
| 500 | 57.7 | 62.9 | 65.8 | 67.9 | 70.5 | 71.8 | 73.0 | 76.2 | 79.8 | 79.5 | 79.0 | 77.7 | 69.8 | 160. | 0. | 0. | 0. |
| 630 | 58.0 | 62.6 | 66.3 | 68.7 | 70.8 | 71.8 | 73.6 | 76.7 | 79.5 | 79.5 | 79.5 | 78.8 | 77.3 | 160. | 0. | 0. | 0. |
| 800 | 56.6 | 61.2 | 65.7 | 67.4 | 69.3 | 71.3 | 73.1 | 76.9 | 78.7 | 78.8 | 77.5 | 75.5 | 65.1 | 160. | 0. | 0. | 0. |
| 1000 | 53.2 | 60.4 | 64.8 | 67.6 | 69.5 | 71.8 | 73.5 | 76.8 | 77.3 | 77.6 | 76.8 | 73.2 | 63.2 | 160. | 0. | 0. | 0. |
| 1250 | 53.8 | 59.5 | 64.2 | 67.1 | 70.1 | 72.4 | 74.6 | 75.9 | 76.5 | 75.6 | 75.2 | 71.2 | 59.5 | 160. | 0. | 0. | 0. |
| 1600 | 52.0 | 57.5 | 62.6 | 66.5 | 69.6 | 72.1 | 75.1 | 75.8 | 74.8 | 74.3 | 72.5 | 68.1 | 56.0 | 160. | 0. | 0. | 0. |
| 2000 | 48.9 | 57.6 | 62.6 | 65.9 | 69.8 | 70.6 | 74.0 | 74.4 | 72.8 | 71.3 | 68.9 | 64.8 | 51.5 | 160. | 0. | 0. | 0. |
| 2500 | 44.0 | 54.2 | 60.1 | 63.6 | 66.3 | 67.9 | 71.0 | 71.2 | 69.3 | 67.0 | 63.7 | 59.4 | 44.5 | 160. | 0. | 0. | 0. |
| 3150 | 37.8 | 48.9 | 55.1 | 59.4 | 63.5 | 63.7 | 66.8 | 65.5 | 65.1 | 61.6 | 57.4 | 51.9 | 33.4 | 160. | 0. | 0. | 0. |
| 4000 | 27.4 | 39.6 | 47.2 | 51.9 | 58.0 | 57.7 | 60.5 | 57.5 | 57.5 | 52.2 | 46.8 | 38.6 | 16.3 | 160. | 0. | 0. | 0. |
| 5000 | 20.9 | 34.2 | 40.7 | 46.9 | 51.6 | 52.5 | 53.6 | 52.5 | 52.7 | 46.8 | 40.9 | 28.9 | 5.6 | 160. | 0. | 0. | 0. |
| 6300 | 5.8 | 21.5 | 30.9 | 37.6 | 42.5 | 42.8 | 45.1 | 42.9 | 41.2 | 33.6 | 25.0 | 12.7 | | 160. | 0. | 0. | 0. |
| 8000 | 1.2 | 13.8 | 21.0 | 25.9 | 27.5 | 29.7 | 26.5 | 23.8 | 16.4 | 3.1 | | | | 160. | 0. | 0. | 0. |
| 10000 | | | | 2.4 | 5.1 | 5.1 | 5.5 | 3.1 | | | | | | 160. | 0. | 0. | 0. |
| 12500 | | | | | | | | | | | | | | 160. | 0. | 0. | 0. |
| 16000 | | | | | | | | | | | | | | 160. | 0. | 0. | 0. |
| OVERALL CALCULATED | 69.4 | 73.8 | 77.0 | 79.2 | 81.5 | 83.2 | 85.0 | 87.3 | 89.5 | 91.3 | 92.4 | 90.7 | 85.1 | | | | |
| PND8 | 74.0 | 80.1 | 84.5 | 87.6 | 90.8 | 92.1 | 94.6 | 95.8 | 96.2 | 96.7 | 96.5 | 94.0 | 85.9 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2107 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | PROC. DATE - MONTH 8 DAY 30 HR. 15.3 | | | | | | | | | |
|--------------------|--------------|--|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIIANS) | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PUL |
| | | FREQ. (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) | | | | | | | | | | | | | |
| NO ESA | | 50 | 30.7 | 32.9 | 34.2 | 34.7 | 36.1 | 37.9 | 39.8 | 41.2 | 43.4 | 45.8 | 48.0 | 50.2 | 51.5 |
| RDG. NO. 3. | | 63 | 81.8 | 85.0 | 84.8 | 86.8 | 89.2 | 90.0 | 90.4 | 92.8 | 96.0 | 100.6 | 105.9 | 106.4 | 153.6 |
| RADIAL 150. FT. | | 80 | 83.3 | 85.3 | 87.3 | 87.6 | 89.5 | 90.8 | 91.2 | 94.4 | 97.6 | 102.6 | 107.4 | 109.3 | 154.5 |
| (45. M) | | 125 | 84.4 | 85.4 | 87.4 | 88.7 | 89.8 | 91.9 | 92.3 | 95.2 | 98.9 | 104.5 | 107.7 | 108.1 | 154.4 |
| VEHICLE | CELL41 | 125 | 87.0 | 88.3 | 89.5 | 91.6 | 92.8 | 94.1 | 96.5 | 100.8 | 105.1 | 107.5 | 107.2 | 105.3 | 154.4 |
| CONFIG | NC59 | 200 | 86.2 | 89.5 | 89.3 | 90.8 | 92.9 | 93.8 | 95.2 | 97.6 | 102.8 | 107.3 | 108.3 | 107.0 | 155.6 |
| LOC | C41 AVECH CH | 250 | 87.7 | 89.9 | 91.6 | 92.7 | 93.2 | 94.6 | 96.2 | 97.1 | 100.5 | 105.2 | 108.0 | 108.7 | 156.6 |
| DATE | 06-16-76 | 315 | 88.3 | 91.1 | 91.8 | 93.6 | 94.7 | 96.8 | 97.9 | 100.8 | 109.1 | 108.4 | 109.6 | 108.5 | 157.1 |
| RUN | CONF2VELDEPN | 400 | 88.1 | 90.9 | 93.6 | 93.9 | 95.5 | 97.4 | 99.2 | 102.1 | 106.6 | 107.7 | 109.6 | 108.8 | 157.2 |
| TAPE | K21080 | 500 | 88.4 | 91.5 | 93.0 | 94.3 | 96.4 | 97.7 | 99.1 | 102.5 | 107.2 | 107.6 | 109.3 | 109.9 | 157.4 |
| BAR | 29.5 HS | 630 | 88.9 | 91.7 | 94.0 | 95.0 | 97.1 | 98.7 | 100.1 | 104.0 | 108.0 | 108.6 | 110.3 | 109.9 | 158.3 |
| (99448. V/M2) | | 800 | 88.3 | 91.6 | 93.8 | 95.1 | 96.9 | 98.6 | 100.4 | 104.9 | 107.1 | 108.9 | 109.9 | 109.5 | 158.2 |
| TAMB | 64. DEG F | 1000 | 88.6 | 91.4 | 94.0 | 96.0 | 97.6 | 99.2 | 101.1 | 105.0 | 107.2 | 108.3 | 110.5 | 108.7 | 158.1 |
| (291. DEG K) | | 1250 | 88.3 | 91.9 | 94.2 | 95.4 | 98.8 | 100.4 | 102.5 | 105.4 | 107.4 | 107.8 | 110.0 | 107.4 | 158.2 |
| TWET | 50. DEG F | 1600 | 89.0 | 92.1 | 94.2 | 96.7 | 99.0 | 100.8 | 104.0 | 105.9 | 107.2 | 107.8 | 109.5 | 107.1 | 158.2 |
| (288. DEG C) | | 2000 | 88.6 | 94.8 | 95.1 | 97.3 | 99.9 | 100.8 | 103.4 | 105.8 | 106.6 | 108.4 | 107.8 | 105.3 | 158.0 |
| 1ACT11.78 GM/M3 | | 2500 | 87.4 | 93.4 | 95.5 | 97.8 | 99.3 | 100.2 | 103.1 | 104.4 | 105.8 | 105.2 | 106.4 | 104.7 | 156.9 |
| (.01178 KG/M3) | | 3150 | 86.8 | 92.6 | 94.8 | 98.2 | 100.0 | 100.3 | 103.0 | 103.3 | 105.3 | 103.8 | 106.4 | 103.6 | 156.5 |
| FREQ. SHIFT | | 4000 | 84.3 | 89.1 | 92.7 | 95.8 | 99.6 | 98.4 | 102.1 | 100.6 | 103.2 | 100.8 | 103.1 | 103.3 | 154.9 |
| JET | | 5000 | 82.1 | 87.5 | 89.9 | 92.7 | 96.6 | 96.6 | 98.1 | 99.3 | 102.1 | 99.6 | 102.4 | 100.2 | 153.2 |
| DIAMETER RATIO | | 6300 | 81.1 | 86.7 | 89.7 | 92.6 | 96.6 | 95.8 | 98.7 | 98.1 | 100.4 | 98.3 | 101.0 | 101.6 | 153.0 |
| DF/DM 4.78 | | 8000 | 78.1 | 84.0 | 87.9 | 90.7 | 92.7 | 93.3 | 96.0 | 95.6 | 98.2 | 97.6 | 99.6 | 99.7 | 151.8 |
| | | 10000 | 74.3 | 79.5 | 84.6 | 87.6 | 89.0 | 89.0 | 91.0 | 91.7 | 95.6 | 95.2 | 97.5 | 96.4 | 149.8 |
| | | 12500 | 72.3 | 76.6 | 83.1 | 84.2 | 84.9 | 86.6 | 87.9 | 89.7 | 94.1 | 95.0 | 97.3 | 94.2 | 150.3 |
| | | 16000 | 73.2 | 77.4 | 84.1 | 83.4 | 83.8 | 86.2 | 89.6 | 88.9 | 94.1 | 96.4 | 97.0 | 94.8 | 153.6 |
| OVERALL CALCULATED | | PNDR | 111.9 | 116.5 | 118.8 | 121.3 | 123.4 | 124.1 | 126.5 | 127.8 | 130.2 | 130.3 | 132.1 | 131.5 | 170.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **2** TEST POINT **2/08** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-.33m²(513in²)** SIZE

PROC. DATE - MONTH 5 DAY 30 MR. 15.3

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | REL. HUM. DAY |
|--------------------|---|------|------|------|------|---------------|
| | 43 | 50 | 60 | 70 | 80 | |
| 50 | 52.5 | 56.3 | 58.7 | 59.9 | 61.7 | 100.0 |
| 63 | 53.5 | 58.4 | 59.2 | 62.0 | 64.8 | 120.0 |
| 80 | 55.0 | 58.6 | 61.7 | 62.7 | 65.0 | 130.0 |
| 100 | 55.9 | 58.6 | 61.7 | 63.7 | 65.2 | 140.0 |
| 125 | 56.4 | 60.1 | 62.5 | 64.5 | 67.0 | 150.0 |
| 160 | 57.5 | 61.4 | 63.5 | 65.6 | 68.2 | 160.0 |
| 200 | 58.9 | 62.3 | 65.5 | 67.1 | 68.9 | 170.0 |
| 250 | 58.5 | 62.5 | 66.6 | 67.7 | 69.5 | 180.0 |
| 315 | 58.7 | 63.3 | 65.3 | 67.9 | 69.4 | 190.0 |
| 400 | 58.1 | 62.7 | 66.8 | 67.9 | 70.0 | 200.0 |
| 500 | 57.9 | 62.9 | 65.8 | 67.9 | 70.5 | 210.0 |
| 630 | 57.7 | 62.6 | 66.3 | 68.2 | 70.8 | 220.0 |
| 800 | 56.6 | 61.7 | 65.4 | 67.7 | 70.1 | 230.0 |
| 1000 | 55.5 | 60.7 | 64.8 | 67.8 | 70.0 | 240.0 |
| 1250 | 53.8 | 60.0 | 64.0 | 66.4 | 70.3 | 250.0 |
| 1600 | 52.5 | 58.6 | 62.6 | 66.3 | 69.3 | 260.0 |
| 2000 | 49.9 | 59.3 | 61.8 | 65.4 | 68.8 | 270.0 |
| 2500 | 45.2 | 55.2 | 59.8 | 63.6 | 66.0 | 280.0 |
| 3150 | 39.3 | 49.9 | 55.1 | 60.4 | 63.2 | 290.0 |
| 4000 | 29.1 | 39.6 | 47.1 | 52.6 | 57.7 | 300.0 |
| 5000 | 21.8 | 34.1 | 40.9 | 46.3 | 51.8 | 310.0 |
| 6300 | 7.0 | 21.9 | 30.6 | 37.0 | 42.9 | 320.0 |
| 8000 | | 1.6 | 13.4 | 20.9 | 25.6 | 330.0 |
| 10000 | | | | 1.8 | 4.2 | 340.0 |
| 12500 | | | | | | 350.0 |
| 16000 | | | | | | 360.0 |
| OVERALL CALCULATED | 68.8 | 73.4 | 76.7 | 78.9 | 81.3 | 83.0 |
| PNDB | 73.6 | 80.7 | 84.1 | 87.3 | 90.3 | 91.6 |

NO EGA
SIDELINE 2430. FT.
(731.52 ft.)

VFA 1. RPM
VFB 0. RAD/SEC
VFC 1. RPM
VFD 0. RAD/SEC
VFE 7500. RPM
VFF (785. RAD/SEC)
AIRFLOW RATIO
WF/WH 4.78

VEHICLE CELL41
CONFIG NC59
LOC C41 AVECH CH
DATE 06-15-76
RUN CONF2VELDEPN
TAPE X21080
FAN TIP SPEED FT/SEC

ANGLE FROM INLET IN DEGREES (AND RADAINS) 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250. 260. 270. 280. 290. 300. 310. 320. 330. 340. 350. 360.

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/08 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| ROG. NO. | NO EGA | RADIAL | 40. FT. | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | PROC. DATE - MONTH 8 DAY 30 HR. 15.1 | | | | | | | | | | | | | |
|--------------------|--------|--------|---------|---|------|------|------|-------|-------|--------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 40. | 50. | 60. | 70. | 80. | 90. | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | | |
| 100 | 63 | 77.1 | 86.7 | 83.9 | 85.2 | 87.5 | 87.7 | 87.8 | 88.7 | 89.4 | 91.5 | 95.2 | 94.6 | 96.9 | 132.2 | | | | | | | | |
| 125 | 80 | 76.6 | 80.9 | 82.4 | 84.9 | 86.5 | 87.9 | 87.7 | 89.4 | 87.9 | 87.4 | 95.4 | 97.3 | 97.9 | 132.4 | | | | | | | | |
| 160 | 125 | 77.1 | 80.2 | 82.9 | 83.2 | 83.8 | 84.7 | 84.8 | 86.7 | 88.2 | 93.2 | 97.7 | 98.6 | 100.4 | 133.8 | | | | | | | | |
| 200 | 200 | 50.0 | 79.8 | 81.8 | 83.8 | 85.2 | 85.8 | 86.4 | 88.6 | 91.8 | 95.9 | 99.8 | 104.0 | 105.0 | 137.6 | | | | | | | | |
| 250 | 250 | 79.6 | 82.1 | 83.3 | 83.9 | 85.7 | 86.8 | 89.0 | 90.6 | 92.6 | 97.9 | 103.4 | 105.5 | 106.3 | 139.5 | | | | | | | | |
| 315 | 315 | 80.4 | 84.2 | 83.4 | 86.2 | 88.8 | 88.9 | 89.8 | 92.2 | 95.7 | 100.5 | 105.2 | 107.9 | 107.7 | 141.5 | | | | | | | | |
| 400 | 400 | 82.7 | 84.2 | 86.2 | 86.5 | 88.3 | 89.7 | 90.6 | 93.0 | 97.0 | 102.5 | 107.2 | 108.7 | 107.7 | 142.6 | | | | | | | | |
| 500 | 500 | 83.0 | 84.5 | 86.0 | 87.1 | 88.9 | 90.5 | 91.4 | 94.1 | 98.3 | 103.9 | 107.6 | 108.2 | 107.0 | 142.8 | | | | | | | | |
| 630 | 630 | 84.6 | 86.1 | 86.9 | 88.4 | 90.5 | 91.6 | 93.0 | 95.2 | 99.6 | 104.2 | 106.9 | 107.3 | 105.9 | 142.5 | | | | | | | | |
| 800 | 800 | 85.6 | 87.9 | 88.2 | 89.7 | 91.3 | 92.7 | 94.3 | 96.9 | 100.9 | 105.5 | 106.7 | 106.6 | 104.2 | 142.6 | | | | | | | | |
| 1000 | 1000 | 87.2 | 88.7 | 90.5 | 90.8 | 92.4 | 94.0 | 95.1 | 98.0 | 101.5 | 105.8 | 106.3 | 105.2 | 104.0 | 142.5 | | | | | | | | |
| 1250 | 1250 | 87.0 | 89.1 | 91.1 | 91.4 | 92.9 | 95.1 | 95.9 | 98.9 | 102.8 | 105.9 | 106.4 | 105.8 | 103.8 | 142.9 | | | | | | | | |
| 1600 | 1600 | 87.4 | 89.9 | 89.9 | 92.5 | 93.8 | 95.7 | 96.3 | 99.0 | 103.7 | 106.8 | 107.2 | 106.4 | 106.9 | 143.7 | | | | | | | | |
| 2000 | 2000 | 87.7 | 89.5 | 92.0 | 92.3 | 93.8 | 95.0 | 97.1 | 100.8 | 104.7 | 107.6 | 108.0 | 107.7 | 105.7 | 144.6 | | | | | | | | |
| 2500 | 2500 | 87.8 | 90.3 | 91.6 | 92.9 | 94.7 | 96.1 | 97.2 | 100.4 | 105.1 | 106.4 | 108.4 | 108.0 | 106.3 | 145.6 | | | | | | | | |
| 3150 | 3150 | 88.0 | 90.5 | 92.6 | 93.6 | 95.7 | 96.3 | 98.2 | 101.3 | 105.8 | 107.6 | 109.1 | 108.5 | 107.3 | 145.2 | | | | | | | | |
| 4000 | 4000 | 87.3 | 89.8 | 91.6 | 92.6 | 94.7 | 96.1 | 98.0 | 101.9 | 105.1 | 107.7 | 108.4 | 107.8 | 106.1 | 145.3 | | | | | | | | |
| 5000 | 5000 | 87.4 | 90.4 | 92.0 | 93.8 | 95.1 | 96.9 | 98.3 | 102.5 | 105.0 | 107.3 | 108.8 | 107.4 | 106.2 | 145.1 | | | | | | | | |
| 6300 | 6300 | 87.5 | 90.5 | 92.6 | 93.8 | 96.2 | 97.5 | 99.7 | 102.3 | 105.3 | 107.2 | 107.4 | 106.5 | 105.5 | 145.1 | | | | | | | | |
| 8000 | 8000 | 87.5 | 90.6 | 92.7 | 94.4 | 96.2 | 97.6 | 100.2 | 102.4 | 104.9 | 107.0 | 106.7 | 106.1 | 105.1 | 144.7 | | | | | | | | |
| 12500 | 12500 | 86.4 | 92.3 | 94.1 | 94.9 | 96.4 | 96.8 | 99.7 | 101.9 | 104.1 | 105.5 | 105.7 | 106.6 | 104.8 | 143.7 | | | | | | | | |
| 16000 | 16000 | 85.1 | 91.6 | 94.7 | 95.4 | 96.2 | 96.3 | 99.0 | 100.3 | 102.0 | 103.7 | 104.6 | 104.4 | 102.8 | 143.2 | | | | | | | | |
| 20000 | 20000 | 83.2 | 89.7 | 92.9 | 95.6 | 96.6 | 96.0 | 98.1 | 98.4 | 101.4 | 101.4 | 102.5 | 103.0 | 101.7 | 141.6 | | | | | | | | |
| 25000 | 25000 | 79.4 | 84.8 | 89.2 | 92.0 | 95.8 | 94.4 | 96.5 | 95.3 | 98.7 | 98.5 | 98.8 | 100.0 | 99.6 | 139.8 | | | | | | | | |
| 31500 | 31500 | 76.6 | 82.1 | 84.8 | 88.3 | 91.0 | 91.0 | 92.0 | 92.7 | 96.1 | 95.5 | 97.3 | 94.8 | 96.4 | 138.8 | | | | | | | | |
| 40000 | 40000 | 73.7 | 79.5 | 83.7 | 86.4 | 89.2 | 87.9 | 90.8 | 90.7 | 93.0 | 92.4 | 93.3 | 95.2 | 93.6 | 136.6 | | | | | | | | |
| 50000 | 50000 | 68.1 | 74.5 | 79.7 | 82.7 | 84.2 | 83.8 | 86.0 | 85.9 | 89.0 | 90.1 | 90.2 | 90.2 | 89.3 | 137.2 | | | | | | | | |
| 63000 | 63000 | 60.8 | 67.5 | 72.8 | 75.3 | 75.6 | 76.5 | 77.7 | 78.2 | 82.8 | 84.7 | 85.2 | 83.4 | 81.7 | 140.8 | | | | | | | | |
| 80000 | 80000 | 55.1 | 60.1 | 65.8 | 68.2 | 68.5 | 69.1 | 70.0 | 71.8 | 76.4 | 79.8 | 80.5 | 77.4 | 74.7 | 157.3 | | | | | | | | |
| | | 50.1 | 55.1 | 61.3 | 60.9 | 60.6 | 62.7 | 66.6 | 64.3 | 71.3 | 74.2 | 74.7 | 71.3 | 70.2 | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | 99.1 | 102.4 | 104.3 | 105.7 | 107.5 | 108.3 | 110.2 | 112.7 | 116.0 | 118.5 | 119.9 | 120.0 | 118.9 | |
| OVERALL CALCULATED | | | | | | | | | | PH8B | 111.8 | 114.5 | 116.1 | 117.3 | 119.2 | 120.2 | 121.9 | 125.1 | 128.7 | 131.2 | 132.7 | 132.4 | 131.3 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/1/0 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

| RDG. NO. | VEHICLE | CONFID | DATE | RUN | TAPE | BAR | TAMB | TNET | WACT | FREQ | JET | DIAMETER | DF/DH | PROC. DATE - MONTH 8 DAY 30 HR. 15.3 | | | | |
|----------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------------------------------------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | FREQ | 50 | 60 | 70 | |
| 53 | 80 EGA | 53 | 81.7 | 84.2 | 85.4 | 86.0 | 87.8 | 88.9 | 91.1 | 92.7 | 94.7 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 |
| 80 | 84.8 | 86.3 | 88.3 | 88.6 | 90.9 | 91.0 | 92.7 | 93.5 | 95.1 | 97.3 | 99.1 | 101.0 | 103.0 | 105.0 | 107.0 | 109.0 | 110.8 | 109.8 |
| 125 | 86.7 | 88.3 | 89.2 | 89.2 | 91.0 | 92.6 | 93.8 | 95.1 | 97.3 | 99.1 | 101.0 | 103.0 | 105.0 | 107.0 | 109.0 | 110.4 | 109.2 | 156.2 |
| 200 | 87.7 | 89.0 | 90.5 | 90.5 | 92.6 | 93.4 | 94.8 | 96.4 | 99.1 | 101.0 | 103.0 | 105.0 | 107.0 | 108.8 | 108.7 | 106.3 | 156.0 | 156.1 |
| 250 | 89.3 | 90.9 | 92.6 | 92.6 | 94.5 | 95.1 | 97.2 | 98.1 | 101.0 | 103.0 | 105.0 | 108.0 | 108.5 | 107.9 | 105.9 | 156.5 | 157.3 | 158.2 |
| 315 | 89.5 | 92.1 | 92.1 | 94.6 | 95.9 | 97.8 | 98.4 | 101.1 | 105.6 | 108.9 | 109.7 | 110.5 | 110.2 | 108.5 | 158.3 | 159.2 | 158.8 | 158.9 |
| 400 | 89.8 | 91.6 | 94.1 | 94.4 | 96.9 | 98.2 | 99.4 | 102.9 | 106.9 | 109.7 | 109.5 | 109.7 | 108.5 | 107.1 | 158.7 | 158.7 | 158.6 | 158.6 |
| 500 | 90.2 | 92.7 | 94.7 | 95.0 | 97.9 | 98.5 | 100.2 | 104.1 | 108.6 | 110.5 | 110.5 | 110.2 | 108.5 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 800 | 90.5 | 92.1 | 93.8 | 94.9 | 96.9 | 97.3 | 99.2 | 100.6 | 104.8 | 107.2 | 109.6 | 111.0 | 109.7 | 108.4 | 158.7 | 158.7 | 158.6 | 158.6 |
| 1000 | 89.6 | 92.7 | 94.2 | 96.0 | 97.3 | 99.2 | 100.2 | 104.1 | 107.3 | 109.9 | 110.6 | 110.7 | 109.5 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 1250 | 89.8 | 92.9 | 94.9 | 96.2 | 98.5 | 99.9 | 102.0 | 104.7 | 107.7 | 109.5 | 109.7 | 108.9 | 107.9 | 158.9 | 158.7 | 158.6 | 158.6 | 158.6 |
| 1600 | 90.0 | 93.1 | 95.2 | 96.9 | 98.7 | 100.1 | 102.7 | 104.9 | 107.4 | 109.5 | 109.2 | 108.6 | 107.6 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 2000 | 89.2 | 95.0 | 96.9 | 97.6 | 99.2 | 99.5 | 102.4 | 104.6 | 106.9 | 108.3 | 108.4 | 109.3 | 107.5 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 2500 | 88.2 | 94.7 | 97.8 | 98.5 | 99.3 | 99.4 | 102.1 | 103.4 | 105.1 | 106.7 | 107.6 | 107.5 | 105.9 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 3150 | 86.8 | 93.3 | 96.5 | 96.2 | 99.2 | 100.2 | 102.0 | 105.0 | 105.0 | 105.1 | 106.2 | 106.7 | 105.3 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 4000 | 83.8 | 89.1 | 93.5 | 96.4 | 100.1 | 98.7 | 100.9 | 99.7 | 103.0 | 102.8 | 103.2 | 104.3 | 104.0 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 5000 | 82.2 | 87.7 | 90.4 | 93.9 | 96.7 | 96.6 | 97.7 | 98.3 | 101.7 | 101.1 | 102.9 | 100.4 | 102.0 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 6300 | 80.9 | 86.7 | 91.0 | 93.6 | 96.4 | 95.1 | 98.0 | 97.9 | 100.2 | 99.6 | 100.5 | 102.4 | 100.9 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 8000 | 77.7 | 84.1 | 89.2 | 92.2 | 93.8 | 93.3 | 95.5 | 95.5 | 98.5 | 99.7 | 99.7 | 99.8 | 98.8 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 10000 | 73.4 | 80.1 | 85.4 | 87.9 | 88.2 | 89.1 | 90.3 | 90.8 | 95.4 | 97.2 | 97.8 | 96.0 | 94.3 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 12500 | 72.1 | 77.2 | 82.9 | 85.3 | 85.5 | 86.2 | 87.0 | 88.8 | 93.4 | 96.9 | 97.6 | 94.5 | 91.7 | 159.2 | 158.3 | 157.3 | 156.8 | 158.9 |
| 16000 | 73.5 | 78.5 | 84.3 | 83.9 | 86.1 | 90.0 | 87.7 | 94.7 | 97.6 | 98.1 | 94.6 | 93.6 | 154.4 | 150.7 | 150.7 | 150.7 | 150.7 | 150.7 |
| OVERALL | 101.4 | 104.8 | 107.0 | 108.5 | 110.3 | 111.0 | 112.9 | 115.2 | 118.5 | 120.9 | 122.2 | 122.2 | 121.0 | 154.4 | 150.7 | 150.7 | 150.7 | 150.7 |
| PADB | 112.5 | 117.4 | 120.1 | 122.1 | 123.7 | 123.8 | 125.8 | 127.2 | 130.2 | 131.7 | 132.7 | 132.6 | 131.4 | 154.4 | 150.7 | 150.7 | 150.7 | 150.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **2** TEST POINT **2110** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-.33m²(513in²)**
 SIZE

| FREQ. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM INLET IN DEGREES (AND RADIANMS) | | | | | 70 PERCENT REL. NUM. DAY | | |
|----------------------|--------------------------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------------------------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. |
| 50 | 40.70 | (0.57) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| 53 | 54.3 | 59.6 | 60.0 | 63.5 | 66.7 | 66.7 | 67.9 | 69.2 | 73.4 | 73.4 | 77.3 | 77.2 | 74.6 |
| 80 | 56.5 | 59.6 | 62.7 | 63.5 | 66.5 | 66.8 | 67.5 | 69.5 | 72.2 | 75.9 | 79.1 | 79.5 | 75.8 |
| 120 | 56.7 | 59.8 | 62.4 | 64.2 | 66.5 | 68.2 | 69.0 | 71.2 | 73.4 | 77.9 | 81.0 | 80.1 | 75.6 |
| 125 | 58.2 | 61.3 | 63.2 | 65.5 | 68.0 | 69.3 | 70.5 | 72.2 | 74.0 | 79.4 | 81.2 | 79.6 | 74.3 |
| 160 | 59.0 | 62.9 | 64.3 | 66.6 | 68.7 | 70.2 | 71.7 | 73.9 | 77.1 | 80.5 | 80.5 | 78.5 | 73.4 |
| 200 | 60.4 | 63.6 | 66.5 | 67.6 | 69.6 | 71.4 | 72.4 | 74.8 | 77.5 | 80.7 | 79.4 | 75.9 | 70.7 |
| 250 | 60.0 | 63.7 | 66.9 | 68.0 | 70.0 | 72.3 | 73.0 | 75.5 | 78.7 | 80.6 | 79.3 | 76.1 | 70.1 |
| 315 | 60.0 | 64.3 | 65.5 | 68.9 | 70.7 | 72.7 | 73.2 | 75.4 | 79.3 | 81.1 | 79.8 | 76.3 | 70.5 |
| 400 | 59.8 | 63.5 | 67.3 | 68.4 | 70.5 | 71.7 | 73.7 | 76.9 | 80.0 | 81.6 | 80.2 | 77.0 | 70.5 |
| 500 | 59.4 | 63.9 | 66.5 | 68.7 | 71.0 | 72.5 | 73.5 | 76.2 | 80.0 | 80.0 | 80.2 | 76.7 | 70.1 |
| 630 | 59.0 | 63.6 | 67.0 | 69.0 | 71.6 | 72.3 | 74.1 | 76.7 | 80.3 | 80.7 | 80.1 | 76.3 | 69.9 |
| 800 | 57.4 | 62.2 | 65.4 | 67.4 | 70.1 | 71.6 | 73.3 | 76.7 | 78.9 | 80.0 | 78.5 | 74.5 | 66.9 |
| 1000 | 56.5 | 61.9 | 65.1 | 67.8 | 69.8 | 71.8 | 73.0 | 76.6 | 78.1 | 78.8 | 77.8 | 72.7 | 65.0 |
| 1250 | 55.3 | 61.0 | 64.7 | 67.1 | 70.1 | 71.6 | 73.6 | 75.6 | 77.5 | 77.6 | 75.2 | 70.2 | 61.8 |
| 1600 | 53.5 | 59.6 | 63.6 | 66.5 | 69.1 | 70.6 | 73.1 | 74.5 | 75.8 | 76.0 | 72.7 | 67.4 | 57.8 |
| 2000 | 50.4 | 59.6 | 63.6 | 65.7 | 68.0 | 68.6 | 71.3 | 72.7 | 73.6 | 72.8 | 69.6 | 65.1 | 53.3 |
| 2500 | 46.0 | 56.4 | 62.1 | 64.3 | 66.0 | 66.4 | 68.8 | 69.2 | 69.3 | 68.5 | 65.5 | 58.9 | 45.2 |
| 3150 | 39.3 | 50.6 | 56.9 | 61.4 | 63.5 | 63.2 | 65.0 | 64.2 | 65.4 | 62.3 | 58.6 | 51.1 | 34.3 |
| 4000 | 28.2 | 39.6 | 47.9 | 53.2 | 58.2 | 57.2 | 59.0 | 56.5 | 57.4 | 53.4 | 47.5 | 38.3 | 17.5 |
| 5000 | 21.9 | 34.4 | 41.4 | 47.6 | 51.8 | 52.2 | 52.8 | 52.0 | 52.7 | 47.8 | 42.6 | 28.3 | 6.6 |
| 6300 | 6.8 | 21.9 | 31.9 | 38.1 | 42.7 | 42.0 | 44.4 | 42.3 | 41.1 | 34.8 | 26.5 | 12.4 | |
| 8000 | | 1.7 | 14.7 | 22.5 | 26.7 | 27.0 | 28.4 | 25.7 | 24.0 | 17.3 | 4.6 | | |
| 10000 | | | | 2.3 | 4.3 | 4.4 | 4.4 | 1.4 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL - CALCULATED | 70.1 | 74.4 | 77.6 | 79.4 | 81.7 | 83.2 | 84.6 | 87.0 | 89.8 | 91.6 | 91.4 | 89.0 | 83.8 |
| PH08 | 74.8 | 81.4 | 85.5 | 88.0 | 90.3 | 91.2 | 93.2 | 94.8 | 96.8 | 97.4 | 96.1 | 92.5 | 85.4 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2110 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

MODEL SOUND PRESSURE LEVELS (S9, DEG. F, 70 PERCENT REL. HUM. DAY - JENGTG)

NO. EGA. 50 60 70 80 90 100 110 120 130 140 150 160 0. 0. 0. 0. 0. PML
 FREQ. (C.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.)(0.)

| RDG. NO. | NO. EGA. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
|--|----------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 100 | 79.6 | 88.9 | 86.4 | 88.0 | 89.8 | 89.4 | 89.8 | 90.5 | 91.7 | 92.2 | 97.2 | 97.1 | 99.4 | 134.3 | |
| 125 | 78.6 | 83.1 | 84.4 | 86.9 | 88.5 | 89.6 | 89.6 | 90.2 | 91.2 | 89.4 | 89.4 | 97.6 | 99.8 | 136.7 | |
| 160 | 78.9 | 82.2 | 85.2 | 85.2 | 85.8 | 86.4 | 86.3 | 88.7 | 90.2 | 95.2 | 99.9 | 101.1 | 103.7 | 136.3 | |
| 200 | 81.8 | 81.8 | 83.3 | 85.8 | 86.4 | 87.5 | 88.7 | 91.1 | 93.8 | 97.4 | 101.8 | 106.0 | 107.5 | 139.7 | |
| 250 | 80.8 | 83.3 | 85.1 | 85.4 | 87.0 | 87.8 | 90.5 | 92.4 | 94.8 | 99.2 | 105.6 | 107.8 | 108.6 | 141.7 | |
| 315 | 82.4 | 86.4 | 85.2 | 87.7 | 90.1 | 90.7 | 91.6 | 94.0 | 96.9 | 102.0 | 110.6 | 110.6 | 110.7 | 144.0 | |
| 400 | 84.4 | 86.0 | 86.0 | 88.3 | 89.3 | 91.0 | 92.1 | 95.3 | 98.7 | 104.5 | 109.7 | 111.9 | 110.7 | 145.4 | |
| 500 | 85.0 | 86.0 | 87.5 | 88.8 | 90.4 | 92.0 | 93.2 | 96.1 | 99.3 | 106.1 | 110.6 | 112.5 | 111.0 | 146.1 | |
| 630 | 86.4 | 88.4 | 88.6 | 90.2 | 91.8 | 93.4 | 94.8 | 97.7 | 101.1 | 106.2 | 109.7 | 112.8 | 111.6 | 146.3 | |
| 800 | 87.6 | 89.4 | 90.4 | 91.7 | 93.5 | 94.4 | 95.5 | 98.9 | 102.7 | 107.5 | 109.7 | 112.4 | 111.9 | 146.5 | |
| 1000 | 90.5 | 91.2 | 92.5 | 93.3 | 94.1 | 95.7 | 96.9 | 99.5 | 103.2 | 107.3 | 108.3 | 110.7 | 111.2 | 145.7 | |
| 1250 | 89.5 | 91.3 | 93.3 | 93.1 | 94.9 | 96.3 | 97.4 | 100.1 | 104.3 | 107.6 | 108.1 | 111.0 | 110.8 | 145.9 | |
| 1600 | 90.1 | 91.9 | 91.9 | 93.7 | 95.3 | 96.4 | 97.8 | 100.2 | 104.9 | 107.5 | 108.2 | 110.9 | 110.9 | 146.0 | |
| 2000 | 91.2 | 92.0 | 93.7 | 94.3 | 96.1 | 96.5 | 98.6 | 101.8 | 105.5 | 107.6 | 108.0 | 111.2 | 111.0 | 146.3 | |
| 2500 | 91.0 | 92.6 | 93.1 | 94.6 | 96.0 | 97.1 | 98.7 | 102.1 | 106.1 | 107.2 | 108.1 | 111.0 | 110.3 | 146.3 | |
| 3150 | 91.2 | 93.0 | 94.1 | 95.1 | 96.7 | 97.3 | 99.2 | 102.6 | 106.3 | 108.1 | 109.6 | 111.8 | 109.3 | 146.5 | |
| 4000 | 90.3 | 92.3 | 94.1 | 94.6 | 96.0 | 97.6 | 99.5 | 102.9 | 105.3 | 107.9 | 109.4 | 110.3 | 107.3 | 146.3 | |
| 5000 | 90.6 | 93.2 | 94.5 | 95.5 | 96.3 | 97.4 | 98.8 | 103.0 | 105.0 | 107.6 | 109.5 | 109.4 | 107.2 | 146.1 | |
| 6300 | 90.0 | 94.0 | 95.8 | 95.3 | 96.4 | 98.5 | 100.4 | 102.8 | 105.6 | 107.4 | 108.6 | 109.3 | 106.8 | 146.1 | |
| 8000 | 89.0 | 92.6 | 94.9 | 96.4 | 97.7 | 98.3 | 100.5 | 102.9 | 104.9 | 107.0 | 107.7 | 108.1 | 105.6 | 145.2 | |
| 10000 | 86.9 | 92.5 | 94.4 | 96.4 | 98.0 | 98.0 | 100.2 | 102.4 | 104.1 | 105.0 | 106.5 | 107.3 | 105.0 | 145.2 | |
| 12500 | 84.8 | 90.3 | 93.0 | 95.2 | 96.7 | 97.1 | 99.5 | 100.3 | 102.5 | 102.9 | 104.1 | 105.1 | 103.1 | 143.8 | |
| 16000 | 82.7 | 88.2 | 91.4 | 94.3 | 96.6 | 96.5 | 98.6 | 98.9 | 101.7 | 101.2 | 102.5 | 103.0 | 101.7 | 143.2 | |
| 20000 | 79.7 | 85.0 | 88.7 | 90.8 | 94.8 | 94.1 | 97.0 | 96.3 | 98.4 | 98.0 | 99.1 | 100.8 | 99.4 | 141.6 | |
| 25000 | 76.6 | 82.9 | 85.5 | 88.1 | 91.3 | 91.3 | 92.0 | 93.0 | 96.3 | 94.2 | 97.3 | 96.1 | 95.6 | 139.8 | |
| 31500 | 74.7 | 80.8 | 84.5 | 86.7 | 88.9 | 88.6 | 90.8 | 90.7 | 93.0 | 91.4 | 94.3 | 96.4 | 93.6 | 139.9 | |
| 40000 | 69.1 | 75.8 | 80.4 | 82.7 | 84.2 | 84.3 | 86.7 | 85.7 | 88.7 | 89.4 | 91.2 | 91.5 | 88.5 | 139.1 | |
| 50000 | 62.0 | 68.5 | 74.1 | 76.1 | 77.5 | 78.2 | 78.7 | 78.7 | 82.1 | 83.2 | 86.0 | 84.4 | 82.2 | 136.8 | |
| 63000 | 55.8 | 61.4 | 67.3 | 68.5 | 68.7 | 70.6 | 71.0 | 72.5 | 75.4 | 77.3 | 80.8 | 77.7 | 75.9 | 136.8 | |
| 80000 | 50.1 | 55.3 | 62.3 | 61.4 | 61.3 | 66.2 | 66.9 | 65.3 | 69.3 | 72.9 | 75.7 | 72.5 | 72.2 | 141.0 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 101.6 104.2 105.7 106.9 108.6 109.3 111.1 113.6 116.7 119.3 121.3 123.4 125.6 122.6 | | | | | | | | | | | | | | | |
| PNDB 114.6 116.8 118.0 119.0 120.5 121.4 123.1 126.2 129.4 131.8 133.7 135.7 134.2 | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2112 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | | | | | | | | | | | |
|--|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (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) | 82.2 | 85.4 | 87.2 | 87.5 | 89.1 | 89.9 | 92.6 | 94.5 | 96.9 | 101.3 | 107.7 | 109.9 | 110.7 |
| RDG. NO. C | 84.5 | 88.5 | 87.3 | 89.8 | 92.2 | 93.1 | 93.7 | 96.1 | 99.0 | 104.1 | 109.3 | 112.8 | 112.8 |
| RADIAL 150. FT. | 86.5 | 88.1 | 70.1 | 90.4 | 92.0 | 93.1 | 94.2 | 97.4 | 100.8 | 106.6 | 111.9 | 114.0 | 112.8 |
| (46. M) | 87.1 | 88.2 | 59.7 | 90.9 | 92.5 | 94.2 | 95.3 | 98.2 | 101.4 | 108.2 | 112.7 | 114.6 | 113.2 |
| VEHICLE CELL41 | 88.5 | 90.5 | 93.8 | 92.3 | 93.9 | 95.5 | 96.9 | 99.8 | 103.3 | 108.3 | 111.8 | 115.0 | 113.8 |
| CONFIG WCS9 | 89.7 | 91.5 | 92.5 | 93.8 | 95.7 | 96.5 | 97.7 | 101.1 | 104.8 | 109.6 | 111.8 | 114.5 | 114.0 |
| LOC C41 AVECH CH | 92.6 | 93.4 | 94.6 | 95.4 | 96.2 | 97.9 | 99.0 | 101.6 | 105.4 | 109.4 | 110.4 | 112.8 | 113.4 |
| DATE 06-16-76 | 91.7 | 93.4 | 95.5 | 95.2 | 97.1 | 98.4 | 99.6 | 102.2 | 106.5 | 109.8 | 110.2 | 113.2 | 112.9 |
| RUN COMFVELDEPN | 92.3 | 94.1 | 94.1 | 95.0 | 97.4 | 98.6 | 99.9 | 102.3 | 107.1 | 109.6 | 110.3 | 113.0 | 113.1 |
| TAPE X21120 | 93.2 | 94.7 | 95.2 | 95.8 | 98.2 | 98.6 | 100.7 | 103.9 | 107.6 | 109.7 | 110.1 | 113.3 | 113.1 |
| BAR 29.5 H5 | 93.4 | 95.2 | 96.2 | 97.3 | 98.9 | 99.5 | 101.4 | 104.8 | 108.5 | 110.3 | 111.8 | 113.9 | 111.5 |
| (99448. N/M2) | 92.5 | 94.6 | 96.3 | 96.9 | 98.2 | 99.8 | 101.7 | 105.1 | 107.6 | 110.2 | 111.6 | 112.5 | 109.6 |
| TAMB 64. DEG F | 92.9 | 95.4 | 96.7 | 97.8 | 98.6 | 99.7 | 101.1 | 103.3 | 107.2 | 109.8 | 111.8 | 111.7 | 109.4 |
| (291. DEG K) | 92.3 | 96.4 | 98.2 | 97.7 | 98.8 | 100.9 | 102.8 | 105.2 | 107.9 | 109.8 | 111.0 | 111.6 | 109.1 |
| TWET 59. DEG F | 91.5 | 95.1 | 97.4 | 98.9 | 100.2 | 100.8 | 103.0 | 105.4 | 107.4 | 109.5 | 110.2 | 110.6 | 108.1 |
| (288. DEG K) | 89.7 | 95.3 | 97.1 | 99.1 | 101.2 | 100.8 | 102.9 | 105.1 | 106.9 | 107.8 | 109.2 | 110.0 | 107.8 |
| 4AC11.63 SM/MS | 87.9 | 93.4 | 96.1 | 98.3 | 99.8 | 100.2 | 102.6 | 103.4 | 105.6 | 106.0 | 107.1 | 108.2 | 106.2 |
| (.01163 KG/MS) | 86.3 | 91.8 | 95.0 | 98.0 | 100.2 | 100.1 | 102.2 | 102.5 | 105.3 | 104.8 | 106.2 | 106.7 | 105.3 |
| FREQ. SHIFT | 84.0 | 89.3 | 93.0 | 95.1 | 99.1 | 98.4 | 101.4 | 100.7 | 102.8 | 102.3 | 103.4 | 105.1 | 103.7 |
| JET | 82.0 | 88.5 | 91.2 | 93.7 | 96.9 | 96.9 | 97.7 | 98.6 | 101.9 | 99.9 | 102.9 | 101.7 | 101.3 |
| DIAMETER RATIO | 81.9 | 88.0 | 91.7 | 93.9 | 96.1 | 95.5 | 98.0 | 97.9 | 100.2 | 98.6 | 101.5 | 103.7 | 100.9 |
| DF/DM 4.78 | 78.7 | 85.3 | 90.0 | 92.2 | 93.8 | 93.8 | 96.3 | 95.2 | 98.3 | 98.9 | 100.7 | 101.0 | 99.1 |
| | 74.6 | 81.1 | 86.6 | 88.6 | 88.7 | 90.1 | 90.8 | 91.3 | 94.7 | 95.7 | 98.6 | 97.0 | 94.8 |
| | 72.9 | 78.4 | 84.4 | 85.5 | 85.8 | 87.7 | 88.0 | 89.6 | 92.4 | 94.4 | 97.9 | 94.8 | 93.0 |
| | 73.5 | 78.7 | 85.7 | 84.8 | 84.7 | 85.6 | 87.7 | 88.7 | 92.7 | 96.3 | 99.1 | 95.9 | 95.6 |
| OVERALL CALCULATED | 103.8 | 106.5 | 109.2 | 109.5 | 111.3 | 112.0 | 113.8 | 116.1 | 119.1 | 121.6 | 123.5 | 125.5 | 124.6 |
| PMB9 | 113.6 | 117.8 | 120.2 | 122.2 | 124.2 | 124.5 | 126.5 | 127.7 | 130.6 | 131.6 | 133.2 | 134.5 | 133.0 |

REPRODUCIBILITY OF TEST
ORIGINAL PAGE IS FROM

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/1/2 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 8 DAY 30 HR. 15.3

| FREQ. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | |
|--------------------|--------------------------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | (0.70) | (0.97) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) |
| 53 | 54.7 | 58.8 | 61.7 | 62.7 | 64.7 | 65.7 | 68.2 | 69.7 | 71.4 | 74.7 | 79.5 | 76.8 |
| 57 | 56.3 | 51.9 | 51.7 | 65.0 | 67.8 | 68.5 | 69.3 | 71.2 | 73.5 | 77.4 | 81.1 | 82.2 |
| 60 | 58.2 | 61.3 | 64.4 | 65.5 | 67.5 | 68.7 | 69.7 | 72.5 | 75.2 | 79.9 | 83.5 | 78.6 |
| 100 | 58.7 | 61.3 | 63.9 | 66.0 | 68.0 | 69.7 | 70.7 | 73.2 | 75.7 | 81.4 | 84.2 | 83.8 |
| 125 | 59.3 | 63.6 | 65.0 | 67.2 | 69.3 | 71.0 | 72.3 | 74.7 | 77.5 | 81.4 | 83.2 | 84.0 |
| 160 | 61.7 | 64.4 | 66.5 | 68.6 | 70.9 | 71.9 | 72.9 | 75.9 | 78.8 | 82.5 | 83.1 | 83.3 |
| 200 | 63.6 | 66.1 | 68.5 | 70.1 | 71.4 | 73.1 | 74.1 | 76.3 | 79.3 | 82.2 | 81.4 | 81.4 |
| 250 | 62.5 | 66.0 | 69.2 | 69.7 | 72.0 | 73.6 | 74.5 | 76.7 | 80.2 | 82.3 | 81.0 | 81.4 |
| 315 | 62.7 | 66.3 | 67.5 | 70.1 | 72.2 | 73.5 | 74.7 | 76.6 | 80.5 | 81.9 | 80.8 | 76.5 |
| 400 | 63.3 | 66.0 | 69.0 | 70.4 | 72.7 | 73.2 | 75.2 | 77.9 | 80.8 | 81.6 | 80.2 | 30.5 |
| 500 | 62.7 | 66.2 | 69.0 | 70.4 | 72.2 | 73.5 | 75.0 | 77.9 | 81.0 | 80.8 | 79.8 | 79.7 |
| 630 | 62.2 | 66.1 | 68.5 | 70.5 | 72.6 | 73.3 | 75.1 | 78.0 | 80.8 | 81.2 | 80.6 | 71.6 |
| 800 | 60.4 | 64.7 | 67.9 | 69.4 | 71.3 | 73.1 | 74.8 | 77.7 | 79.2 | 80.3 | 79.5 | 77.0 |
| 1000 | 59.7 | 64.7 | 67.6 | 69.6 | 71.0 | 72.3 | 73.5 | 77.1 | 78.1 | 79.1 | 78.6 | 74.7 |
| 1250 | 57.8 | 64.5 | 68.0 | 68.6 | 70.3 | 72.6 | 74.3 | 77.7 | 77.9 | 76.4 | 72.9 | 63.0 |
| 1600 | 55.0 | 61.6 | 65.8 | 68.5 | 70.6 | 71.4 | 73.3 | 75.0 | 75.8 | 76.0 | 69.4 | 58.3 |
| 2000 | 50.9 | 59.8 | 63.8 | 67.2 | 70.0 | 69.9 | 71.8 | 73.2 | 73.6 | 72.3 | 70.4 | 65.8 |
| 2500 | 45.8 | 55.2 | 60.3 | 64.1 | 66.5 | 67.2 | 69.3 | 69.2 | 69.8 | 67.8 | 65.0 | 59.6 |
| 3150 | 38.8 | 49.1 | 55.4 | 60.2 | 63.5 | 63.7 | 65.5 | 64.7 | 65.6 | 62.1 | 58.6 | 51.1 |
| 4000 | 28.4 | 39.9 | 47.4 | 51.9 | 57.2 | 57.0 | 59.5 | 57.5 | 57.2 | 52.9 | 47.8 | 39.0 |
| 5000 | 21.9 | 35.1 | 42.1 | 47.4 | 52.0 | 52.5 | 52.8 | 52.2 | 52.9 | 46.5 | 42.6 | 29.6 |
| 6300 | 7.8 | 23.2 | 32.6 | 38.3 | 42.5 | 42.8 | 44.4 | 42.3 | 41.1 | 33.8 | 27.5 | 13.7 |
| 8000 | 2.9 | 15.5 | 22.5 | 26.7 | 27.5 | 29.2 | 29.2 | 25.5 | 23.7 | 16.6 | 5.6 | |
| 10000 | | | | 2.8 | 5.5 | 4.9 | 1.9 | | | | | |
| 12500 | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | |
| PNDB | 72.8 | 76.6 | 79.3 | 81.1 | 83.2 | 84.4 | 85.8 | 88.2 | 90.7 | 92.6 | 93.1 | 93.0 |
| OVERALL CALCULATED | 77.5 | 82.7 | 86.3 | 89.1 | 91.7 | 92.3 | 94.0 | 95.7 | 97.3 | 97.9 | 97.1 | 96.0 |
| PNDB | | | | | | | | | | | | 89.9 |

NO ESA
 SIDELINE 2630. FT.
 (731.52 ft.)
 MFA (1. RPM)
 MFK (0. RAD/SEC)
 MFD (7500. RPM)
 AIRFLOW RATIO
 MFA/MH 4.78
 VEHICLE CELL41
 CONFIG WC59
 LOC C41 AVECH CH
 DATE 06-16-76
 RUN CONFZVELDEPN
 TAPE K21120
 FAN TIP SPEED
 FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/1/2 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(1513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO EGA | 40. FT. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PROC. DATE - MONTH 8 DAY 30 HR. 15.1 | |
|--|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|--------|
| | | | | | | | | | | | | | | | (0.70) | (0.87) |
| 100 | 81.9 | 90.7 | 88.4 | 90.0 | 92.0 | 91.8 | 92.2 | 93.7 | 94.2 | 95.7 | 98.7 | 98.9 | 101.4 | 136.2 | | |
| 125 | 81.1 | 84.9 | 86.9 | 89.2 | 90.7 | 92.1 | 92.0 | 92.9 | 91.4 | 90.4 | 100.1 | 102.6 | 103.4 | 137.2 | | |
| 160 | 81.5 | 83.4 | 87.4 | 87.2 | 87.8 | 88.4 | 87.5 | 90.0 | 91.4 | 96.5 | 101.4 | 103.4 | 105.4 | 138.1 | | |
| 200 | 83.5 | 83.8 | 85.0 | 87.3 | 88.2 | 89.3 | 90.2 | 92.3 | 95.3 | 96.6 | 102.8 | 108.0 | 109.8 | 141.6 | | |
| 250 | 82.3 | 86.1 | 87.3 | 87.1 | 88.2 | 89.8 | 92.5 | 94.6 | 96.3 | 100.7 | 108.1 | 110.8 | 111.8 | 144.4 | | |
| 315 | 83.5 | 88.4 | 86.9 | 89.0 | 91.8 | 92.2 | 93.6 | 95.7 | 98.7 | 103.5 | 110.0 | 113.9 | 113.7 | 146.8 | | |
| 400 | 85.9 | 87.2 | 89.7 | 89.3 | 91.1 | 92.2 | 93.8 | 97.0 | 99.7 | 106.5 | 112.7 | 115.4 | 114.5 | 148.5 | | |
| 500 | 86.3 | 87.5 | 89.3 | 90.1 | 91.4 | 93.0 | 94.2 | 97.3 | 100.8 | 107.9 | 114.6 | 116.5 | 114.5 | 149.7 | | |
| 630 | 87.9 | 89.9 | 90.4 | 91.7 | 93.5 | 94.4 | 96.3 | 98.9 | 102.4 | 108.5 | 115.2 | 117.3 | 115.6 | 150.5 | | |
| 800 | 90.1 | 91.2 | 91.9 | 92.9 | 94.5 | 95.9 | 97.5 | 100.2 | 103.9 | 110.0 | 115.9 | 117.9 | 116.4 | 151.3 | | |
| 1000 | 94.5 | 95.2 | 95.7 | 95.8 | 96.4 | 97.5 | 98.6 | 101.3 | 104.5 | 109.1 | 115.3 | 117.7 | 117.0 | 151.2 | | |
| 1250 | 93.3 | 94.8 | 95.8 | 96.1 | 97.2 | 98.6 | 100.2 | 102.6 | 105.6 | 109.4 | 114.6 | 118.3 | 116.3 | 151.2 | | |
| 1600 | 98.9 | 98.7 | 96.4 | 96.5 | 97.1 | 98.2 | 99.8 | 101.7 | 106.2 | 109.0 | 114.2 | 118.1 | 116.2 | 151.1 | | |
| 2000 | 105.2 | 103.0 | 102.5 | 99.3 | 98.1 | 99.0 | 100.3 | 103.0 | 106.0 | 108.6 | 113.3 | 117.2 | 115.7 | 150.4 | | |
| 2500 | 106.3 | 105.8 | 105.6 | 104.6 | 102.7 | 99.6 | 100.5 | 103.4 | 106.6 | 108.2 | 112.4 | 115.3 | 112.1 | 150.0 | | |
| 3150 | 103.5 | 104.3 | 105.6 | 106.6 | 106.7 | 103.8 | 101.9 | 104.1 | 107.3 | 108.4 | 113.8 | 114.3 | 110.0 | 150.3 | | |
| 4000 | 100.8 | 101.6 | 102.6 | 103.1 | 105.0 | 105.3 | 104.2 | 104.9 | 106.3 | 107.7 | 111.9 | 112.3 | 108.1 | 149.0 | | |
| 5000 | 99.1 | 99.9 | 101.0 | 102.5 | 102.6 | 103.9 | 104.8 | 105.8 | 106.5 | 107.6 | 111.8 | 111.2 | 107.2 | 148.5 | | |
| 6300 | 97.2 | 98.8 | 100.3 | 100.8 | 102.7 | 103.8 | 105.2 | 106.1 | 107.1 | 106.9 | 110.6 | 110.3 | 106.5 | 148.2 | | |
| 8000 | 95.8 | 96.8 | 98.4 | 100.7 | 102.5 | 103.3 | 105.0 | 107.2 | 107.2 | 106.8 | 109.2 | 109.6 | 105.8 | 148.0 | | |
| 10000 | 93.4 | 96.5 | 97.9 | 99.1 | 101.4 | 101.5 | 103.9 | 105.9 | 107.4 | 105.8 | 107.5 | 108.3 | 104.8 | 147.3 | | |
| 12500 | 90.3 | 93.3 | 95.7 | 98.2 | 100.0 | 99.8 | 103.0 | 103.8 | 105.0 | 103.7 | 105.3 | 106.1 | 103.3 | 145.9 | | |
| 16000 | 88.4 | 91.7 | 93.7 | 96.6 | 99.1 | 98.7 | 101.6 | 102.6 | 103.4 | 101.7 | 103.5 | 104.8 | 102.0 | 145.2 | | |
| 20000 | 84.7 | 88.5 | 91.4 | 93.0 | 97.5 | 96.4 | 99.5 | 98.6 | 100.4 | 98.0 | 100.3 | 102.3 | 99.9 | 143.4 | | |
| 25000 | 81.1 | 85.9 | 87.5 | 89.8 | 93.5 | 92.8 | 93.8 | 95.2 | 97.8 | 94.7 | 98.5 | 97.3 | 97.4 | 141.5 | | |
| 31500 | 78.7 | 83.3 | 86.2 | 88.2 | 91.7 | 90.4 | 93.1 | 92.9 | 94.3 | 91.9 | 95.6 | 97.9 | 95.1 | 140.7 | | |
| 40000 | 74.1 | 78.8 | 82.4 | 84.4 | 86.5 | 86.3 | 88.0 | 88.7 | 90.5 | 89.1 | 92.7 | 93.5 | 90.0 | 138.5 | | |
| 50000 | 67.8 | 73.0 | 77.1 | 78.1 | 78.6 | 79.5 | 80.2 | 81.0 | 84.1 | 83.7 | 87.2 | 86.4 | 84.0 | 139.1 | | |
| 63000 | 62.8 | 66.6 | 71.8 | 72.0 | 72.0 | 72.4 | 73.0 | 74.8 | 77.4 | 78.3 | 83.6 | 79.9 | 76.9 | 143.6 | | |
| 80000 | 59.4 | 62.8 | 69.1 | 67.4 | 66.3 | 67.4 | 68.1 | 68.3 | 71.8 | 73.4 | 79.0 | 75.8 | 72.4 | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 111.7 111.8 112.4 112.8 113.6 113.5 114.5 116.1 118.1 120.3 125.5 127.9 126.1 | | | | | | | | | | | | | | | | |
| PNDB 125.3 125.5 126.2 126.8 127.3 126.8 126.8 128.3 130.6 132.5 137.6 139.0 136.5 | | | | | | | | | | | | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/13 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PROC. DATE - MONTH 8 DAY 30 HR. 15.3
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM., DAY - JENOTS)

| RDG. NO. | NO ESA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | EAR | TAMB | TWET | FACT | FREQ | JET | DIAMETER | DF/DH | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | PWL |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|---|-----|-----|-----|
| | | | | | | | | | | | | | | | | | 40. | 50. | 60. | |
| 50 | 84.4 | 88.2 | 89.4 | 89.2 | 90.3 | 91.9 | 94.6 | 96.7 | 98.4 | 102.8 | 110.2 | 112.9 | 113.9 | 158.0 | | | | | | |
| 63 | 86.0 | 90.5 | 89.3 | 91.1 | 93.9 | 94.3 | 96.0 | 99.1 | 101.8 | 108.6 | 114.9 | 116.0 | 115.8 | 160.4 | | | | | | |
| 80 | 88.0 | 89.3 | 91.8 | 91.4 | 93.2 | 94.3 | 96.0 | 99.1 | 101.8 | 108.6 | 114.9 | 116.0 | 115.8 | 162.1 | | | | | | |
| 100 | 88.4 | 89.7 | 91.4 | 92.2 | 93.5 | 94.3 | 96.3 | 99.4 | 102.9 | 110.0 | 116.7 | 118.6 | 116.7 | 163.2 | | | | | | |
| 125 | 90.0 | 92.0 | 92.5 | 93.8 | 95.6 | 96.5 | 98.4 | 101.0 | 104.5 | 110.6 | 117.3 | 119.5 | 117.8 | 164.1 | | | | | | |
| 160 | 92.2 | 93.3 | 94.0 | 95.1 | 96.7 | 98.0 | 99.7 | 102.3 | 105.0 | 112.1 | 118.1 | 120.0 | 118.5 | 164.9 | | | | | | |
| 200 | 95.6 | 97.4 | 97.9 | 97.9 | 98.5 | 99.6 | 100.7 | 103.4 | 106.6 | 111.2 | 117.4 | 119.8 | 119.1 | 164.7 | | | | | | |
| 250 | 95.4 | 96.9 | 98.0 | 98.2 | 99.3 | 100.7 | 102.3 | 104.7 | 107.7 | 111.5 | 116.7 | 120.4 | 118.4 | 164.8 | | | | | | |
| 315 | 101.0 | 100.8 | 98.5 | 98.6 | 99.2 | 101.3 | 103.8 | 108.3 | 111.1 | 116.3 | 120.3 | 118.3 | 115.9 | 164.0 | | | | | | |
| 400 | 107.3 | 105.1 | 104.6 | 101.4 | 100.2 | 101.1 | 102.5 | 105.1 | 108.1 | 110.7 | 115.4 | 119.3 | 115.9 | 163.5 | | | | | | |
| 500 | 103.4 | 108.0 | 107.7 | 106.8 | 104.9 | 101.7 | 102.6 | 105.5 | 108.3 | 110.3 | 114.5 | 117.4 | 114.2 | 162.6 | | | | | | |
| 630 | 105.7 | 106.5 | 107.7 | 108.8 | 108.9 | 106.0 | 106.1 | 106.3 | 109.3 | 110.6 | 116.0 | 116.4 | 112.2 | 161.8 | | | | | | |
| 800 | 103.0 | 103.8 | 104.8 | 105.4 | 107.2 | 107.6 | 106.4 | 107.1 | 108.0 | 108.7 | 109.8 | 114.0 | 109.4 | 160.9 | | | | | | |
| 1000 | 101.4 | 102.2 | 103.2 | 104.8 | 104.8 | 106.2 | 107.1 | 108.0 | 108.7 | 109.8 | 114.0 | 113.4 | 108.9 | 161.6 | | | | | | |
| 1250 | 99.6 | 101.1 | 102.7 | 103.2 | 105.0 | 106.1 | 107.5 | 108.4 | 109.4 | 109.3 | 111.7 | 112.1 | 108.3 | 160.9 | | | | | | |
| 1600 | 98.3 | 99.3 | 100.9 | 103.2 | 105.0 | 105.8 | 107.5 | 109.7 | 109.3 | 109.3 | 111.7 | 112.1 | 108.3 | 159.4 | | | | | | |
| 2000 | 96.2 | 99.3 | 100.6 | 101.8 | 104.2 | 104.3 | 106.7 | 108.6 | 110.1 | 108.5 | 110.2 | 111.0 | 107.5 | 158.8 | | | | | | |
| 2500 | 93.4 | 96.4 | 98.3 | 101.3 | 102.9 | 106.1 | 106.9 | 108.1 | 106.7 | 108.4 | 109.2 | 106.4 | 105.6 | 156.9 | | | | | | |
| 3150 | 92.1 | 95.3 | 97.3 | 100.2 | 102.7 | 102.3 | 105.2 | 105.3 | 107.0 | 105.3 | 107.2 | 108.4 | 105.6 | 155.1 | | | | | | |
| 4000 | 89.0 | 92.8 | 95.7 | 97.4 | 101.9 | 100.7 | 103.9 | 104.8 | 102.3 | 104.7 | 106.6 | 104.2 | 103.0 | 154.3 | | | | | | |
| 5000 | 86.7 | 91.5 | 93.2 | 95.4 | 98.9 | 97.6 | 100.3 | 100.1 | 101.5 | 99.1 | 102.8 | 105.2 | 102.4 | 152.0 | | | | | | |
| 6300 | 85.9 | 90.5 | 93.5 | 95.4 | 98.9 | 97.6 | 100.3 | 100.1 | 101.5 | 99.1 | 102.8 | 105.2 | 102.4 | 152.7 | | | | | | |
| 8000 | 83.7 | 88.3 | 92.0 | 94.0 | 96.0 | 91.2 | 92.1 | 92.8 | 93.6 | 96.7 | 96.2 | 99.8 | 99.0 | 157.2 | | | | | | |
| 10000 | 80.4 | 85.6 | 89.6 | 90.6 | 91.2 | 92.1 | 92.8 | 93.6 | 96.7 | 96.2 | 99.8 | 99.0 | 96.6 | 175.9 | | | | | | |
| 12500 | 79.9 | 83.7 | 88.9 | 89.0 | 89.0 | 89.4 | 90.0 | 91.8 | 96.4 | 95.4 | 100.6 | 97.0 | 94.0 | | | | | | | |
| 16000 | 82.8 | 86.2 | 92.5 | 90.8 | 89.7 | 90.8 | 91.5 | 91.7 | 95.2 | 96.8 | 102.4 | 99.1 | 95.8 | | | | | | | |
| OVERALL CALCULATED | 113.9 | 114.0 | 114.7 | 115.2 | 116.1 | 116.0 | 117.2 | 118.7 | 120.6 | 122.6 | 127.7 | 130.0 | 128.1 | | | | | | | |
| PND8 | 122.0 | 123.1 | 124.1 | 125.6 | 127.6 | 127.4 | 129.4 | 130.7 | 132.3 | 132.3 | 135.7 | 137.3 | 134.9 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/1/3 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m(513in?) SIZE

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|------|------|------|------|------|------|------|------|------|------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| SIDELINE 2400. FT. | 50.2 | 61.6 | 63.9 | 64.4 | 65.9 | 67.7 | 70.2 | 71.9 | 72.9 | 76.2 | 82.0 | 82.5 | 80.1 |
| (731.52 ft) | 57.8 | 63.9 | 63.5 | 66.2 | 66.5 | 68.7 | 70.0 | 71.5 | 74.2 | 75.2 | 78.9 | 83.8 | 81.5 |
| VFA (1. RPM) | 59.7 | 62.6 | 62.8 | 65.7 | 66.2 | 69.0 | 70.7 | 71.7 | 74.5 | 77.2 | 83.2 | 88.2 | 87.3 |
| (0. RAD/SEC) | 125 | 51.4 | 55.1 | 56.7 | 58.7 | 61.0 | 62.0 | 63.8 | 66.0 | 68.7 | 76.0 | 83.6 | 88.7 |
| VFK (1. RPM) | 160 | 63.5 | 66.2 | 68.1 | 69.9 | 71.9 | 73.4 | 74.9 | 77.1 | 80.1 | 85.0 | 89.3 | 88.3 |
| (0. RAD/SEC) | 200 | 67.6 | 70.1 | 71.8 | 72.6 | 73.6 | 74.9 | 75.9 | 78.1 | 80.5 | 83.9 | 88.4 | 83.7 |
| MFD (7500. RPM) | 250 | 66.2 | 69.5 | 71.7 | 72.7 | 74.3 | 75.8 | 77.3 | 79.2 | 81.4 | 84.1 | 87.5 | 88.6 |
| (785. RAD/SEC) | 315 | 71.5 | 73.1 | 72.0 | 72.9 | 73.9 | 76.2 | 76.7 | 78.1 | 81.8 | 83.4 | 86.8 | 88.1 |
| AIRFLOW RATIO | 400 | 77.3 | 77.0 | 77.8 | 75.4 | 74.7 | 75.7 | 77.0 | 79.1 | 81.3 | 82.6 | 85.4 | 86.5 |
| WF/WM 6.78 | 500 | 77.9 | 79.4 | 80.5 | 80.4 | 79.0 | 76.0 | 76.7 | 79.2 | 81.5 | 81.8 | 84.0 | 84.0 |
| VEHICLE CELL41 | 630 | 74.5 | 77.3 | 80.0 | 82.0 | 82.6 | 79.8 | 77.8 | 79.5 | 81.8 | 81.5 | 84.8 | 82.1 |
| CONFIG NC99 | 800 | 79.9 | 73.9 | 76.4 | 77.9 | 80.3 | 80.8 | 79.6 | 79.7 | 80.2 | 80.0 | 82.0 | 79.0 |
| LOC C41 ANECH CH | 1000 | 68.2 | 71.4 | 74.1 | 76.6 | 77.3 | 78.8 | 79.5 | 79.8 | 79.6 | 79.1 | 80.8 | 76.5 |
| DATE 06-16-76 | 1250 | 65.0 | 69.2 | 72.5 | 74.1 | 76.6 | 77.9 | 79.1 | 79.4 | 79.2 | 77.4 | 78.4 | 73.9 |
| RUN CONF2VELDEPN | 1600 | 61.8 | 65.8 | 69.3 | 72.8 | 75.3 | 76.4 | 77.8 | 79.3 | 78.1 | 75.8 | 75.2 | 70.9 |
| TAPE X21130 | 2000 | 57.4 | 63.8 | 67.3 | 69.9 | 73.0 | 73.4 | 75.5 | 76.7 | 76.8 | 73.1 | 71.4 | 66.8 |
| FAN TIP SPEED | 2500 | 51.3 | 58.2 | 63.1 | 67.1 | 69.8 | 69.9 | 72.8 | 72.7 | 72.3 | 68.5 | 66.2 | 60.6 |
| FT/SEC | 3150 | 44.5 | 52.6 | 57.6 | 62.4 | 66.0 | 65.9 | 68.5 | 68.5 | 67.4 | 62.6 | 59.6 | 52.9 |
| | 4000 | 33.4 | 43.4 | 50.1 | 54.2 | 60.0 | 59.2 | 62.0 | 59.7 | 59.2 | 49.0 | 40.5 | 17.7 |
| | 5000 | 26.4 | 38.1 | 44.1 | 49.1 | 54.3 | 54.0 | 54.5 | 54.5 | 54.6 | 47.0 | 43.8 | 30.8 |
| | 6300 | 11.8 | 23.7 | 34.4 | 39.8 | 45.2 | 44.5 | 46.6 | 44.6 | 42.4 | 34.3 | 28.7 | 15.2 |
| | 8000 | 5.9 | 17.5 | 24.3 | 28.9 | 29.5 | 30.4 | 28.5 | 25.5 | 25.5 | 16.3 | 7.1 | |
| | 10000 | | | 1.2 | 5.3 | 7.3 | 6.9 | 4.1 | 0.6 | | | | |
| OVERALL CALCULATED | 12500 | | | | | | | | | | | | |
| | 16000 | 83.0 | 84.8 | 86.5 | 87.5 | 88.4 | 88.4 | 89.0 | 90.3 | 91.9 | 94.0 | 97.9 | 92.4 |
| PNDE | | 88.3 | 90.9 | 92.9 | 94.7 | 96.1 | 96.2 | 97.5 | 98.7 | 99.3 | 98.8 | 101.4 | 100.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 2/1/3 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL 33m(108in)
 FULL 33m(108in)

| RDG. NO. | NO EGA | 4C. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|----------------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|-------|
| RADIAL (12. M) | CELL41 | (C.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.) | (0.) |
| 50 | | 75.9 | 85.4 | 83.2 | 84.5 | 86.3 | 86.2 | 86.3 | 87.2 | 87.9 | 90.0 | 93.4 | 92.6 | 95.2 | | | | 130.6 |
| 60 | | 75.6 | 79.6 | 81.7 | 83.2 | 85.2 | 86.6 | 86.5 | 87.9 | 86.4 | 85.7 | 93.6 | 95.3 | 96.6 | | | | 130.8 |
| 80 | | 76.1 | 78.7 | 81.5 | 81.5 | 83.3 | 83.2 | 83.8 | 85.0 | 87.2 | 92.2 | 95.4 | 96.9 | 98.7 | | | | 132.1 |
| 100 | | 79.0 | 79.3 | 81.3 | 83.1 | 84.4 | 85.0 | 85.4 | 88.1 | 90.8 | 94.4 | 98.3 | 102.0 | 103.3 | | | | 136.0 |
| 125 | | 78.6 | 81.6 | 82.1 | 82.9 | 84.5 | 86.1 | 88.0 | 89.4 | 91.8 | 96.9 | 102.4 | 104.0 | 104.6 | | | | 138.2 |
| 150 | | 79.9 | 83.9 | 82.9 | 85.5 | 87.6 | 87.9 | 88.8 | 92.5 | 96.2 | 102.3 | 106.7 | 108.2 | 107.2 | | | | 141.0 |
| 200 | | 82.2 | 84.0 | 85.7 | 86.2 | 87.8 | 89.2 | 89.6 | 91.5 | 96.2 | 102.3 | 106.7 | 108.2 | 107.7 | | | | 142.3 |
| 250 | | 82.8 | 83.5 | 85.5 | 86.6 | 88.4 | 90.5 | 90.9 | 93.3 | 97.8 | 103.1 | 106.6 | 108.2 | 107.0 | | | | 142.3 |
| 300 | | 83.4 | 85.1 | 86.1 | 87.7 | 89.8 | 90.6 | 92.5 | 95.2 | 99.1 | 103.5 | 105.9 | 107.3 | 105.9 | | | | 142.0 |
| 350 | | 84.6 | 86.7 | 87.7 | 89.2 | 91.0 | 92.2 | 93.5 | 95.9 | 101.4 | 105.0 | 106.7 | 106.6 | 104.4 | | | | 142.4 |
| 400 | | 86.5 | 88.5 | 89.7 | 90.5 | 91.9 | 93.5 | 94.6 | 97.8 | 102.2 | 105.8 | 106.3 | 105.7 | 103.7 | | | | 142.6 |
| 450 | | 86.3 | 88.6 | 91.3 | 90.9 | 92.6 | 94.3 | 94.9 | 98.6 | 103.6 | 105.9 | 106.1 | 106.5 | 103.8 | | | | 143.0 |
| 500 | | 86.4 | 89.4 | 89.7 | 91.5 | 93.3 | 95.4 | 96.1 | 98.7 | 104.2 | 106.3 | 107.0 | 107.1 | 104.9 | | | | 143.7 |
| 550 | | 86.9 | 89.5 | 91.5 | 92.0 | 93.6 | 95.2 | 97.1 | 100.3 | 104.7 | 106.3 | 106.5 | 107.2 | 104.5 | | | | 143.8 |
| 600 | | 87.0 | 89.8 | 90.8 | 92.4 | 94.5 | 95.6 | 97.0 | 100.4 | 105.6 | 106.4 | 106.4 | 106.5 | 104.3 | | | | 143.9 |
| 650 | | 87.7 | 90.3 | 91.8 | 93.6 | 95.4 | 96.3 | 97.9 | 102.1 | 106.3 | 107.1 | 107.6 | 107.8 | 105.0 | | | | 145.0 |
| 700 | | 87.3 | 90.3 | 91.6 | 92.9 | 94.4 | 96.6 | 98.7 | 102.6 | 105.3 | 106.7 | 106.9 | 107.3 | 103.8 | | | | 146.6 |
| 750 | | 87.4 | 90.4 | 92.2 | 94.0 | 95.6 | 97.4 | 99.3 | 102.8 | 105.0 | 107.3 | 107.5 | 106.9 | 103.7 | | | | 146.9 |
| 800 | | 86.7 | 90.3 | 92.6 | 94.1 | 96.4 | 98.5 | 100.7 | 103.3 | 105.1 | 106.7 | 106.9 | 106.0 | 102.8 | | | | 146.8 |
| 850 | | 86.5 | 91.3 | 92.6 | 94.4 | 97.2 | 99.3 | 102.5 | 103.9 | 104.7 | 106.3 | 105.5 | 104.6 | 103.3 | | | | 146.9 |
| 900 | | 86.2 | 92.3 | 93.9 | 95.4 | 97.7 | 99.3 | 101.9 | 103.9 | 104.6 | 105.5 | 104.7 | 104.6 | 103.0 | | | | 146.9 |
| 950 | | 85.1 | 91.9 | 93.5 | 94.9 | 96.5 | 97.9 | 101.5 | 101.8 | 102.5 | 103.4 | 103.1 | 102.9 | 101.1 | | | | 143.6 |
| 1000 | | 82.7 | 90.2 | 92.2 | 94.8 | 96.4 | 97.0 | 100.4 | 100.1 | 102.2 | 101.7 | 101.3 | 101.0 | 99.5 | | | | 143.3 |
| 1250 | | 79.9 | 86.0 | 89.4 | 91.8 | 95.0 | 94.9 | 98.3 | 96.9 | 98.7 | 98.5 | 99.4 | 98.3 | 97.6 | | | | 141.7 |
| 1500 | | 76.3 | 82.9 | 85.6 | 88.4 | 91.6 | 91.5 | 92.8 | 94.0 | 96.6 | 95.8 | 96.4 | 93.4 | 93.9 | | | | 139.8 |
| 1750 | | 73.9 | 80.8 | 83.8 | 84.9 | 89.7 | 89.6 | 91.8 | 91.7 | 93.5 | 92.9 | 92.0 | 93.0 | 91.7 | | | | 139.7 |
| 2000 | | 68.1 | 75.5 | 79.7 | 82.5 | 84.5 | 84.8 | 87.3 | 86.9 | 89.5 | 89.5 | 87.2 | 88.8 | 87.1 | | | | 136.6 |
| 2250 | | 68.0 | 73.3 | 75.3 | 76.4 | 77.5 | 79.3 | 80.0 | 83.4 | 83.9 | 80.3 | 81.5 | 79.8 | | | | | 136.0 |
| 2500 | | 67.1 | 68.0 | 68.5 | 70.2 | 71.2 | 73.5 | 76.7 | 73.5 | 76.7 | 79.3 | 74.1 | 74.0 | 72.9 | | | | 135.9 |
| 2750 | | 64.4 | 61.9 | 60.9 | 60.8 | 63.4 | 67.1 | 67.4 | 67.4 | 70.6 | 74.0 | 66.0 | 68.8 | 66.7 | | | | 139.4 |
| 3000 | | 62.3 | 103.9 | 105.5 | 107.5 | 108.8 | 111.2 | 113.4 | 116.2 | 118.1 | 118.9 | 119.4 | 117.8 | | | | | 156.9 |
| 3250 | | 111.3 | 114.2 | 115.7 | 117.1 | 119.0 | 120.4 | 122.3 | 125.5 | 128.9 | 130.7 | 131.5 | 131.8 | 129.6 | | | | |

OVERALL MEASURED
 OVERALL CALCULATED
 PNDB

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/14 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 3 DAY 30 HR. 15.3

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. (0.70) | 80.7 | 83.7 | 84.2 | 85.0 | 86.0 | 86.6 | 87.2 | 87.7 | 88.2 | 88.7 | 89.2 | 89.7 | 90.1 | 90.5 | 90.9 | 91.3 | 91.7 |
| NO. EJA. | 63 | 82.0 | 86.0 | 87.6 | 88.4 | 89.0 | 89.7 | 90.0 | 90.9 | 93.6 | 97.0 | 102.1 | 106.6 | 109.8 | 109.3 | 109.3 | 109.3 |
| RDS. HO. | 80 | 84.3 | 86.1 | 87.8 | 88.4 | 89.0 | 89.7 | 90.0 | 90.9 | 93.6 | 97.0 | 102.1 | 106.6 | 109.8 | 109.3 | 109.3 | 109.3 |
| RADIAL 150. FT. | 100 | 84.9 | 85.7 | 87.7 | 88.7 | 89.5 | 90.2 | 90.5 | 91.3 | 94.0 | 97.4 | 102.4 | 108.9 | 110.3 | 109.8 | 109.8 | 109.8 |
| (45. M) | 125 | 85.5 | 87.3 | 88.5 | 89.3 | 91.9 | 92.8 | 93.6 | 94.3 | 95.7 | 98.1 | 103.5 | 108.0 | 109.5 | 108.0 | 108.0 | 108.0 |
| VEHICLE | 160 | 86.7 | 88.8 | 89.8 | 91.3 | 93.2 | 94.3 | 95.7 | 98.1 | 103.5 | 107.1 | 108.8 | 108.7 | 106.5 | 106.5 | 106.5 | 106.5 |
| CELL 41 | 200 | 88.6 | 90.6 | 91.9 | 92.6 | 94.0 | 95.6 | 96.7 | 99.9 | 104.4 | 107.9 | 108.4 | 107.8 | 105.9 | 105.9 | 105.9 | 105.9 |
| CONFIS | 250 | 88.4 | 90.7 | 93.5 | 93.0 | 94.6 | 96.4 | 97.1 | 100.7 | 105.7 | 108.0 | 108.2 | 108.7 | 105.9 | 105.9 | 105.9 | 105.9 |
| LOC C41 AVECH CH | 315 | 88.5 | 91.6 | 91.3 | 93.6 | 95.4 | 97.6 | 98.2 | 100.8 | 105.3 | 108.4 | 109.1 | 109.3 | 107.1 | 107.1 | 107.1 | 107.1 |
| DATE 06-10-76 | 400 | 89.1 | 91.6 | 93.5 | 94.1 | 95.7 | 97.4 | 99.2 | 102.4 | 106.9 | 108.4 | 108.6 | 109.3 | 106.6 | 106.6 | 106.6 | 106.6 |
| RUN CONF2VELDEPN | 500 | 89.2 | 92.0 | 93.0 | 94.5 | 96.6 | 97.7 | 99.1 | 102.5 | 107.7 | 108.6 | 108.5 | 108.7 | 106.5 | 106.5 | 106.5 | 106.5 |
| TAPE X21140 | 630 | 89.9 | 92.5 | 94.0 | 95.8 | 97.6 | 98.5 | 100.1 | 104.3 | 108.5 | 109.3 | 109.8 | 109.9 | 107.2 | 107.2 | 107.2 | 107.2 |
| BAR 29.5 45 | 800 | 89.5 | 92.6 | 93.8 | 95.1 | 96.7 | 98.8 | 100.9 | 104.9 | 107.6 | 108.9 | 109.1 | 109.5 | 106.1 | 106.1 | 106.1 | 106.1 |
| (99448. 4/M2) | 1000 | 89.6 | 92.7 | 94.5 | 96.3 | 97.8 | 99.7 | 101.6 | 105.0 | 107.2 | 109.6 | 109.8 | 109.2 | 105.9 | 105.9 | 105.9 | 105.9 |
| TAMB 63. DEG F | 1250 | 89.1 | 92.6 | 94.9 | 96.6 | 98.4 | 99.7 | 101.8 | 105.0 | 107.4 | 109.0 | 109.2 | 108.4 | 105.1 | 105.1 | 105.1 | 105.1 |
| (290. DEG K) | 1600 | 89.0 | 93.8 | 95.2 | 96.9 | 98.8 | 100.9 | 103.0 | 105.7 | 107.4 | 109.0 | 109.2 | 108.4 | 105.1 | 105.1 | 105.1 | 105.1 |
| FWET 59. DEG F | 2000 | 88.9 | 95.0 | 96.6 | 98.1 | 100.4 | 101.0 | 104.7 | 106.6 | 107.4 | 108.3 | 107.6 | 107.3 | 105.8 | 105.8 | 105.8 | 105.8 |
| (288. DEG K) | 2500 | 88.2 | 94.9 | 96.6 | 98.0 | 99.6 | 100.9 | 104.6 | 104.9 | 105.6 | 106.3 | 106.1 | 106.0 | 104.2 | 104.2 | 104.2 | 104.2 |
| HACT11.42 SM/M3 | 3150 | 86.3 | 93.9 | 95.8 | 98.5 | 100.0 | 100.6 | 104.0 | 103.8 | 105.8 | 105.3 | 104.9 | 104.7 | 103.1 | 103.1 | 103.1 | 103.1 |
| (.01142 G/H3) | 4000 | 84.3 | 90.4 | 93.8 | 96.1 | 99.4 | 99.2 | 102.6 | 101.2 | 103.0 | 102.8 | 103.7 | 102.6 | 102.0 | 102.0 | 102.0 | 102.0 |
| FREQ. SHIFT | 5000 | 81.9 | 88.5 | 91.2 | 94.0 | 97.2 | 97.2 | 98.4 | 99.6 | 102.2 | 101.4 | 102.0 | 99.0 | 99.5 | 99.5 | 99.5 | 99.5 |
| JET 7 | 6300 | 81.1 | 88.0 | 91.0 | 94.2 | 96.9 | 96.9 | 99.1 | 98.9 | 100.8 | 100.1 | 99.2 | 100.2 | 98.9 | 98.9 | 98.9 | 98.9 |
| DIAMETER RATIO | 8000 | 77.7 | 85.1 | 89.3 | 92.0 | 94.1 | 94.3 | 96.8 | 96.5 | 99.0 | 99.5 | 96.8 | 98.3 | 96.6 | 96.6 | 96.6 | 96.6 |
| DF/DH 4.78 | 10000 | 73.2 | 80.6 | 85.9 | 87.9 | 89.0 | 90.1 | 91.9 | 92.6 | 96.0 | 96.5 | 92.9 | 94.1 | 92.4 | 92.4 | 92.4 | 92.4 |
| | 12500 | 69.9 | 77.7 | 84.2 | 85.1 | 85.6 | 87.2 | 88.3 | 90.6 | 93.7 | 96.4 | 91.1 | 91.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| | 16000 | 67.8 | 78.2 | 85.2 | 86.3 | 84.2 | 86.8 | 90.5 | 90.8 | 94.0 | 97.4 | 89.6 | 92.2 | 90.1 | 90.1 | 90.1 | 90.1 |
| OVERALL CALCULATED | 100.9 | 104.9 | 106.7 | 108.6 | 110.4 | 111.6 | 114.1 | 116.0 | 118.8 | 120.5 | 121.2 | 121.6 | 119.8 | 119.8 | 119.8 | 119.8 | 119.8 |
| PNDB | 112.2 | 117.7 | 119.5 | 121.8 | 123.7 | 124.5 | 127.3 | 128.2 | 130.6 | 131.4 | 131.4 | 129.7 | 129.7 | 129.7 | 129.7 | 129.7 | 129.7 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2114 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | 70 | 75 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
|--------------------|---|--------|--------|--------|--------|------|------|------|------|------|------|------|------|-----|-----|-----|
| | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | | | | | | | | | | | |
| 50 | 52.5 | 57.1 | 58.7 | 60.2 | 62.2 | 63.9 | 65.7 | 66.7 | 68.4 | 72.4 | 76.3 | 75.7 | 72.8 | | | |
| 63 | 53.8 | 59.4 | 59.5 | 52.7 | 65.3 | 65.8 | 66.5 | 68.7 | 71.5 | 75.4 | 78.3 | 79.2 | 75.3 | | | |
| 80 | 56.0 | 59.3 | 52.2 | 63.5 | 65.5 | 67.0 | 67.2 | 69.7 | 72.7 | 77.7 | 80.5 | 79.6 | 75.9 | | | |
| 100 | 56.4 | 58.8 | 61.9 | 63.7 | 66.0 | 68.2 | 68.5 | 70.5 | 74.2 | 78.4 | 80.2 | 79.6 | 74.8 | | | |
| 125 | 56.9 | 62.3 | 52.5 | 64.7 | 67.3 | 68.3 | 70.0 | 72.2 | 75.5 | 78.6 | 79.5 | 78.5 | 73.4 | | | |
| 150 | 58.0 | 61.7 | 63.6 | 66.1 | 68.4 | 69.7 | 70.9 | 72.9 | 77.6 | 80.0 | 80.1 | 77.6 | 71.5 | | | |
| 200 | 59.6 | 63.3 | 65.8 | 67.3 | 69.1 | 70.9 | 71.9 | 74.6 | 78.3 | 80.7 | 79.4 | 76.4 | 70.5 | | | |
| 250 | 59.2 | 63.2 | 67.2 | 67.5 | 69.5 | 71.6 | 72.0 | 75.2 | 79.4 | 80.6 | 79.0 | 76.9 | 70.1 | | | |
| 315 | 59.0 | 63.8 | 65.3 | 67.9 | 70.2 | 72.4 | 72.9 | 75.1 | 79.8 | 80.6 | 79.5 | 77.1 | 70.5 | | | |
| 400 | 59.1 | 63.5 | 66.6 | 68.1 | 70.2 | 72.0 | 73.7 | 76.4 | 80.0 | 80.3 | 78.7 | 76.5 | 69.2 | | | |
| 500 | 58.7 | 63.4 | 65.8 | 68.2 | 70.7 | 72.0 | 73.2 | 76.2 | 80.5 | 80.0 | 78.0 | 75.2 | 68.1 | | | |
| 630 | 58.7 | 63.3 | 66.3 | 68.9 | 71.3 | 72.3 | 73.8 | 77.4 | 80.8 | 80.2 | 78.6 | 75.6 | 67.5 | | | |
| 800 | 57.4 | 62.7 | 65.4 | 67.7 | 69.8 | 72.1 | 74.1 | 77.4 | 79.2 | 79.0 | 77.0 | 74.0 | 64.6 | | | |
| 1000 | 56.5 | 61.9 | 65.3 | 68.1 | 70.3 | 72.3 | 74.0 | 76.8 | 78.1 | 78.8 | 76.6 | 72.2 | 62.5 | | | |
| 1250 | 54.5 | 60.7 | 64.7 | 67.4 | 70.3 | 72.6 | 74.6 | 76.6 | 77.2 | 77.1 | 74.7 | 69.7 | 59.0 | | | |
| 1600 | 52.5 | 60.3 | 63.6 | 66.5 | 70.1 | 72.4 | 75.3 | 76.0 | 75.6 | 75.3 | 71.5 | 65.9 | 56.0 | | | |
| 2000 | 50.1 | 59.6 | 63.3 | 66.2 | 69.3 | 70.1 | 73.5 | 74.7 | 74.1 | 72.8 | 68.6 | 63.1 | 51.5 | | | |
| 2500 | 46.0 | 56.7 | 60.8 | 63.8 | 66.3 | 67.9 | 71.3 | 70.7 | 69.8 | 68.3 | 64.0 | 57.4 | 43.5 | | | |
| 3150 | 38.9 | 51.1 | 56.1 | 60.7 | 63.3 | 64.2 | 67.3 | 66.0 | 66.1 | 62.6 | 57.4 | 49.1 | 32.1 | | | |
| 4000 | 28.7 | 40.9 | 48.2 | 52.9 | 57.5 | 57.7 | 60.7 | 58.0 | 57.4 | 53.4 | 48.1 | 36.6 | 15.5 | | | |
| 5000 | 21.6 | 35.2 | 42.2 | 47.6 | 52.3 | 52.7 | 53.6 | 53.2 | 53.2 | 48.0 | 41.9 | 26.9 | 4.1 | | | |
| 6300 | 7.1 | 23.2 | 31.9 | 36.6 | 43.2 | 43.8 | 45.4 | 43.4 | 41.7 | 35.3 | 25.2 | 10.2 | | | | |
| 8000 | | 2.7 | 14.8 | 22.3 | 26.9 | 28.0 | 29.7 | 26.8 | 24.5 | 17.1 | 1.6 | | | | | |
| 10000 | | | | | 3.1 | 5.3 | 6.0 | 3.1 | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 59.4 | 74.1 | 77.0 | 79.2 | 81.6 | 83.3 | 85.0 | 87.3 | 90.1 | 91.1 | 90.5 | 88.7 | 83.3 | | | |
| PND8 | 74.2 | 81.4 | 85.0 | 87.8 | 90.7 | 92.1 | 94.5 | 95.9 | 97.0 | 96.9 | 95.0 | 92.0 | 84.2 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 2 TEST POINT 2114 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

| RDG. NO. | NO. EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWT | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | PWL |
|--------------------|---------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | 40. | 51. | 60. | 70. | 80. | 90. | |
| 50 | 82.2 | 84.9 | 86.4 | 87.2 | 88.3 | 89.4 | 91.6 | 93.5 | 95.7 | 100.5 | 106.5 | 108.4 | 109.2 | 153.9 | | | | | |
| 63 | 83.5 | 87.5 | 86.3 | 88.6 | 91.2 | 91.8 | 92.4 | 94.8 | 97.5 | 102.9 | 108.3 | 111.0 | 111.3 | 156.1 | | | | | |
| 80 | 86.0 | 86.8 | 89.1 | 89.4 | 91.2 | 92.3 | 93.5 | 96.1 | 99.6 | 105.4 | 110.4 | 112.3 | 111.6 | 157.5 | | | | | |
| 100 | 86.4 | 87.4 | 89.2 | 90.2 | 91.8 | 93.7 | 94.0 | 97.4 | 100.7 | 106.7 | 110.7 | 112.4 | 111.2 | 157.8 | | | | | |
| 125 | 87.0 | 89.0 | 90.0 | 91.5 | 93.1 | 94.5 | 96.1 | 98.8 | 101.8 | 107.1 | 109.8 | 111.2 | 110.3 | 157.2 | | | | | |
| 160 | 88.2 | 90.3 | 91.5 | 92.8 | 94.4 | 95.5 | 97.2 | 99.3 | 103.5 | 108.3 | 110.1 | 110.5 | 109.3 | 157.4 | | | | | |
| 200 | 90.1 | 91.6 | 92.5 | 93.9 | 95.0 | 96.4 | 97.7 | 100.4 | 104.4 | 107.9 | 108.6 | 108.3 | 108.1 | 156.6 | | | | | |
| 250 | 90.2 | 91.4 | 93.7 | 94.2 | 95.8 | 97.7 | 98.1 | 101.7 | 105.7 | 107.8 | 108.5 | 108.9 | 108.2 | 157.0 | | | | | |
| 315 | 90.3 | 92.6 | 93.1 | 95.1 | 96.4 | 98.3 | 99.2 | 101.3 | 105.1 | 108.9 | 108.8 | 109.3 | 109.1 | 157.6 | | | | | |
| 400 | 90.6 | 92.1 | 93.9 | 95.1 | 96.7 | 98.1 | 100.2 | 103.4 | 106.9 | 108.9 | 108.6 | 110.1 | 109.1 | 158.0 | | | | | |
| 500 | 90.4 | 93.0 | 94.0 | 94.8 | 97.1 | 98.2 | 99.6 | 102.8 | 107.5 | 108.8 | 109.5 | 109.9 | 109.7 | 158.3 | | | | | |
| 630 | 90.9 | 93.7 | 94.7 | 96.8 | 98.1 | 99.0 | 100.4 | 104.0 | 108.5 | 110.1 | 110.8 | 111.9 | 110.7 | 159.6 | | | | | |
| 800 | 90.8 | 92.8 | 94.3 | 95.6 | 97.7 | 99.3 | 100.7 | 104.9 | 107.6 | 109.9 | 110.1 | 111.3 | 109.6 | 159.1 | | | | | |
| 1000 | 90.6 | 93.2 | 95.0 | 96.5 | 98.1 | 99.7 | 100.8 | 105.3 | 107.5 | 109.8 | 110.3 | 111.2 | 109.2 | 159.2 | | | | | |
| 1250 | 90.6 | 94.1 | 95.7 | 96.9 | 99.3 | 100.4 | 102.3 | 105.2 | 107.9 | 109.3 | 109.7 | 110.6 | 109.4 | 159.1 | | | | | |
| 1600 | 91.0 | 94.3 | 95.9 | 97.4 | 98.7 | 100.8 | 103.0 | 105.4 | 107.7 | 109.3 | 109.5 | 109.6 | 108.6 | 159.0 | | | | | |
| 2000 | 90.4 | 96.3 | 97.6 | 98.9 | 100.2 | 100.0 | 102.7 | 105.1 | 107.4 | 108.3 | 108.2 | 109.3 | 108.0 | 158.6 | | | | | |
| 2500 | 89.7 | 95.7 | 98.1 | 99.3 | 100.3 | 100.4 | 102.3 | 103.7 | 105.8 | 106.5 | 106.7 | 107.7 | 106.2 | 157.5 | | | | | |
| 3150 | 87.6 | 93.6 | 96.6 | 100.0 | 101.8 | 100.6 | 102.5 | 102.5 | 105.6 | 105.3 | 105.4 | 106.4 | 105.6 | 157.1 | | | | | |
| 4000 | 84.8 | 90.1 | 93.8 | 97.4 | 101.4 | 99.2 | 101.9 | 100.5 | 103.0 | 102.6 | 102.7 | 103.9 | 104.0 | 155.5 | | | | | |
| 5000 | 83.2 | 89.0 | 91.5 | 94.5 | 98.0 | 97.4 | 98.2 | 99.1 | 102.5 | 101.2 | 102.2 | 101.3 | 102.3 | 153.8 | | | | | |
| 6300 | 82.2 | 88.0 | 91.8 | 94.2 | 97.4 | 96.6 | 99.1 | 98.5 | 101.1 | 99.4 | 100.1 | 103.2 | 101.9 | 153.0 | | | | | |
| 8000 | 79.5 | 85.1 | 89.8 | 92.6 | 94.9 | 94.9 | 96.9 | 96.0 | 99.1 | 99.3 | 99.3 | 100.9 | 99.9 | 150.7 | | | | | |
| 10000 | 75.0 | 81.2 | 86.3 | 88.5 | 89.8 | 90.7 | 91.9 | 91.7 | 96.0 | 96.4 | 97.9 | 96.9 | 95.9 | 150.5 | | | | | |
| 12500 | 73.0 | 78.1 | 84.3 | 85.9 | 86.6 | 87.6 | 88.4 | 89.9 | 93.6 | 93.8 | 95.8 | 93.6 | 93.8 | 150.3 | | | | | |
| 16000 | 73.6 | 78.9 | 85.4 | 85.2 | 85.8 | 87.2 | 90.9 | 90.1 | 91.2 | 99.0 | 98.5 | 96.0 | 98.5 | 155.6 | | | | | |
| OVERALL CALCULATED | 102.4 | 105.7 | 107.5 | 109.3 | 111.2 | 111.7 | 113.4 | 115.8 | 118.9 | 121.0 | 122.2 | 123.2 | 122.4 | 171.2 | | | | | |
| PND8 | 113.7 | 118.3 | 120.6 | 122.9 | 124.8 | 124.6 | 126.4 | 127.6 | 130.6 | 131.6 | 132.2 | 133.2 | 132.3 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/15 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

| NO EGA
SIDELINE 2400 FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40 | 50 | 63 | 79 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| FREQ. (0.73)(0.37)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0) | 56.0 | 58.3 | 50.9 | 62.4 | 63.9 | 65.2 | 67.2 | 68.7 | 70.2 | 72.0 | 73.9 | 75.3 | 78.0 |
| 53 | 54.0 | 58.3 | 50.9 | 62.4 | 63.9 | 65.2 | 67.2 | 68.7 | 70.2 | 72.0 | 73.9 | 75.3 | 78.0 |
| 63 | 55.3 | 50.9 | 50.7 | 63.7 | 66.8 | 67.5 | 68.0 | 70.0 | 72.0 | 76.2 | 80.1 | 80.5 | 77.3 |
| 80 | 57.7 | 60.1 | 63.4 | 64.5 | 65.7 | 68.0 | 69.0 | 71.2 | 73.9 | 76.7 | 82.0 | 81.6 | 77.4 |
| NFA (0. RAD/SEC) | 125 | 58.4 | 62.1 | 64.2 | 65.5 | 68.5 | 69.2 | 72.5 | 74.9 | 79.9 | 82.2 | 81.6 | 76.8 |
| NFK (1. RPM) | 160 | 59.5 | 63.2 | 65.6 | 67.6 | 69.7 | 70.9 | 72.4 | 74.1 | 77.6 | 81.3 | 80.3 | 75.0 |
| (0. RAD/SEC) | 200 | 61.1 | 64.3 | 66.5 | 68.6 | 70.1 | 71.6 | 72.9 | 75.1 | 78.3 | 80.7 | 79.3 | 74.3 |
| NFD (7500. RPM) | 250 | 61.0 | 64.0 | 67.4 | 68.7 | 70.8 | 72.8 | 73.0 | 76.2 | 79.4 | 80.3 | 79.3 | 77.1 |
| (785. RAD/SEC) | 315 | 60.7 | 64.8 | 66.5 | 69.4 | 71.2 | 73.2 | 73.9 | 75.6 | 79.5 | 81.1 | 79.3 | 77.1 |
| AIRFLOW RATIO | 400 | 60.6 | 64.0 | 67.0 | 69.1 | 71.2 | 72.7 | 74.7 | 77.4 | 80.0 | 80.8 | 78.7 | 77.3 |
| WF/W 4.78 | 500 | 59.9 | 64.4 | 66.8 | 68.4 | 71.2 | 72.5 | 73.7 | 76.4 | 80.3 | 80.3 | 79.0 | 76.5 |
| VEHICLE CELL 41 | 630 | 59.7 | 64.6 | 67.0 | 69.9 | 71.8 | 72.8 | 74.1 | 77.2 | 80.8 | 81.0 | 79.6 | 77.6 |
| CONFIG MC59 | 800 | 58.6 | 62.9 | 65.9 | 68.2 | 70.8 | 72.6 | 73.8 | 77.4 | 80.2 | 80.0 | 78.0 | 75.7 |
| LOC C41 ANECH CH | 1250 | 56.0 | 62.2 | 65.5 | 67.9 | 70.5 | 72.3 | 73.3 | 77.1 | 78.3 | 79.1 | 77.1 | 74.2 |
| DATE 06-16-76 | 1600 | 54.5 | 60.8 | 64.3 | 67.0 | 69.1 | 71.4 | 73.3 | 75.0 | 76.1 | 75.8 | 73.0 | 68.4 |
| RUN CONFZVELDEPN | 2000 | 51.6 | 60.8 | 64.1 | 66.9 | 69.0 | 69.1 | 71.5 | 73.2 | 76.1 | 72.8 | 69.4 | 65.1 |
| TAPE X21150 | 2500 | 47.5 | 57.4 | 62.3 | 65.1 | 67.0 | 67.4 | 69.0 | 69.5 | 70.1 | 68.3 | 64.5 | 59.1 |
| FAN TIP SPEED FT/SEC | 3150 | 40.0 | 50.9 | 56.9 | 62.2 | 65.0 | 64.2 | 65.8 | 64.8 | 65.9 | 62.6 | 57.9 | 50.9 |
| OVERALL CALCULATED | 4000 | 29.2 | 40.7 | 48.2 | 54.2 | 59.5 | 57.8 | 60.0 | 57.3 | 57.5 | 53.1 | 47.1 | 37.8 |
| PHDB | 5000 | 22.9 | 35.7 | 42.5 | 48.2 | 53.1 | 53.0 | 53.3 | 52.8 | 53.5 | 47.8 | 41.9 | 29.1 |
| | 6300 | 8.1 | 23.2 | 32.7 | 38.6 | 43.8 | 43.6 | 45.4 | 42.9 | 42.0 | 34.6 | 26.1 | 13.3 |
| | 8000 | | 2.8 | 15.3 | 22.8 | 27.7 | 28.6 | 29.7 | 26.3 | 24.6 | 16.9 | 4.2 | |
| | 10000 | | | | 3.9 | 5.9 | 5.9 | 6.0 | 2.2 | 0.0 | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.9 | 75.1 | 77.9 | 80.2 | 82.3 | 83.8 | 85.1 | 87.6 | 90.2 | 91.7 | 91.6 | 90.2 | 85.6 |
| PHDB | 75.7 | 82.4 | 85.9 | 86.8 | 91.1 | 91.9 | 93.6 | 93.4 | 97.1 | 97.4 | 95.9 | 93.4 | 86.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/15 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(153in²) SIZE

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

FREQ. (C.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)(3.3)(3.6)(3.9)(4.2)(4.6)(5.0)(5.5)(6.0)(6.6)(7.1)(7.7)(8.4)(9.1)(9.9)(10.7)(11.6)(12.6)(13.7)(14.9)(16.2)(17.7)(19.3)(21.1)(23.0)(25.2)(27.7)(30.3)(33.3)(36.7)(40.4)(44.4)(48.9)(53.9)(59.5)(65.8)(72.6)(80.0)(88.3)(97.0)(107.1)(118.7)(131.3)(145.6)(162.3)(181.7)(204.0)(229.5)(258.5)(291.4)(329.5)(378.3)(439.6)(506.1)(580.0)(663.2)(757.8)(865.9)(991.4)(1138.0)(1318.8)(1538.0)(1808.5)(2134.4)(2524.8)(3000.0)(3580.0)(4272.0)(5096.0)(6072.0)(7220.0)(8560.0)(10000.0) PML

| NO. EGA | RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. |
|--|----------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|
| 80 | 79.1 | 88.2 | 86.2 | 88.0 | 89.5 | 89.2 | 89.3 | 90.5 | 91.2 | 92.5 | 96.9 | 96.9 | 98.9 | 98.9 | 134.0 | | | |
| 100 | 77.8 | 82.6 | 84.1 | 86.4 | 88.2 | 89.6 | 90.0 | 91.2 | 89.6 | 89.2 | 97.4 | 99.3 | 100.6 | 134.5 | | | | |
| 125 | 78.4 | 80.9 | 84.7 | 85.3 | 85.7 | 86.0 | 87.7 | 89.4 | 95.0 | 99.2 | 100.4 | 102.7 | 135.6 | | | | | |
| 200 | 81.3 | 81.5 | 82.8 | 85.1 | 85.9 | 87.0 | 87.7 | 90.1 | 93.8 | 97.1 | 101.3 | 105.3 | 106.8 | 139.1 | | | | |
| 250 | 80.6 | 83.6 | 85.6 | 84.9 | 86.7 | 87.8 | 90.5 | 91.9 | 94.1 | 99.2 | 105.4 | 107.8 | 108.3 | 141.5 | | | | |
| 315 | 81.7 | 85.9 | 84.7 | 87.5 | 90.1 | 90.7 | 91.6 | 93.7 | 96.4 | 101.5 | 107.0 | 110.1 | 109.9 | 143.5 | | | | |
| 400 | 84.2 | 85.7 | 88.0 | 88.0 | 89.8 | 91.0 | 91.8 | 95.3 | 98.2 | 103.8 | 109.2 | 111.4 | 110.5 | 144.9 | | | | |
| 500 | 84.8 | 86.0 | 87.5 | 88.6 | 89.9 | 91.5 | 92.7 | 95.3 | 99.5 | 105.6 | 110.1 | 111.7 | 110.5 | 145.5 | | | | |
| 630 | 86.1 | 87.9 | 88.4 | 89.7 | 91.5 | 92.4 | 94.3 | 96.9 | 100.6 | 106.2 | 109.4 | 111.6 | 110.6 | 145.5 | | | | |
| 800 | 87.1 | 89.2 | 89.7 | 91.2 | 92.3 | 93.9 | 95.3 | 98.2 | 102.2 | 107.0 | 109.2 | 110.4 | 110.2 | 146.3 | | | | |
| 1000 | 89.0 | 90.5 | 91.7 | 92.3 | 93.6 | 95.0 | 96.1 | 99.5 | 102.7 | 106.6 | 108.3 | 108.4 | 109.0 | 146.4 | | | | |
| 1250 | 89.0 | 90.6 | 92.3 | 92.9 | 94.2 | 95.8 | 96.7 | 100.4 | 104.1 | 106.6 | 107.6 | 109.0 | 108.3 | 146.7 | | | | |
| 1600 | 89.1 | 91.4 | 91.9 | 93.2 | 95.3 | 96.2 | 97.3 | 99.7 | 104.9 | 106.8 | 107.7 | 109.4 | 108.9 | 145.1 | | | | |
| 2000 | 89.9 | 91.2 | 93.2 | 93.8 | 94.8 | 96.5 | 98.1 | 101.5 | 105.7 | 107.1 | 107.5 | 109.7 | 108.7 | 145.4 | | | | |
| 2500 | 90.3 | 91.8 | 92.6 | 94.1 | 95.2 | 96.6 | 98.0 | 101.4 | 105.8 | 106.7 | 107.6 | 110.0 | 109.1 | 145.5 | | | | |
| 3150 | 91.0 | 92.0 | 93.6 | 94.8 | 96.4 | 96.5 | 98.7 | 102.3 | 106.3 | 107.6 | 109.1 | 110.8 | 108.8 | 146.4 | | | | |
| 4000 | 90.3 | 91.6 | 93.1 | 93.9 | 95.7 | 96.8 | 98.7 | 102.6 | 105.6 | 107.4 | 108.6 | 110.3 | 106.8 | 145.5 | | | | |
| 5000 | 90.1 | 92.2 | 94.2 | 95.3 | 95.6 | 97.2 | 99.1 | 103.0 | 105.2 | 106.6 | 109.0 | 108.7 | 106.2 | 145.6 | | | | |
| 6300 | 89.5 | 93.3 | 95.6 | 95.3 | 96.9 | 98.0 | 100.2 | 102.8 | 105.6 | 106.2 | 108.4 | 107.8 | 106.0 | 145.5 | | | | |
| 8000 | 88.8 | 93.3 | 95.9 | 96.2 | 97.2 | 97.8 | 100.2 | 102.7 | 105.2 | 106.3 | 107.2 | 107.6 | 104.3 | 145.4 | | | | |
| 10000 | 87.7 | 93.8 | 96.4 | 97.6 | 98.4 | 97.5 | 99.7 | 102.4 | 104.9 | 104.3 | 106.0 | 107.1 | 103.8 | 145.0 | | | | |
| 12500 | 85.8 | 91.6 | 94.7 | 96.9 | 98.0 | 97.8 | 99.2 | 100.6 | 102.7 | 103.2 | 104.3 | 104.6 | 102.1 | 144.0 | | | | |
| 16000 | 83.7 | 89.5 | 92.7 | 96.1 | 97.6 | 96.7 | 99.4 | 101.4 | 101.4 | 101.2 | 102.3 | 103.3 | 100.5 | 143.4 | | | | |
| 20000 | 80.2 | 86.0 | 89.7 | 92.0 | 96.0 | 95.1 | 97.8 | 95.8 | 99.2 | 97.5 | 96.6 | 101.0 | 98.1 | 141.8 | | | | |
| 25000 | 77.1 | 83.4 | 86.0 | 89.1 | 92.0 | 91.8 | 92.8 | 93.2 | 96.6 | 94.2 | 97.3 | 95.8 | 93.4 | 140.1 | | | | |
| 31500 | 74.2 | 81.0 | 84.7 | 87.2 | 90.4 | 89.1 | 91.8 | 91.2 | 93.5 | 91.4 | 94.1 | 95.7 | 93.6 | 140.1 | | | | |
| 40000 | 68.6 | 75.5 | 81.2 | 83.7 | 85.2 | 85.3 | 87.2 | 86.7 | 89.5 | 89.1 | 90.9 | 91.5 | 88.8 | 139.4 | | | | |
| 50000 | 62.0 | 68.8 | 73.8 | 76.6 | 77.4 | 78.0 | 78.7 | 79.5 | 82.6 | 83.4 | 86.0 | 84.7 | 80.7 | 137.0 | | | | |
| 63000 | 55.6 | 61.4 | 67.3 | 69.2 | 69.7 | 71.1 | 71.2 | 73.0 | 76.1 | 78.1 | 81.1 | 77.7 | 73.9 | 137.2 | | | | |
| 80000 | 50.1 | 55.8 | 62.6 | 62.2 | 61.6 | 66.7 | 67.4 | 65.8 | 70.6 | 73.4 | 77.0 | 72.3 | 70.2 | 141.6 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | |
| PRDB 101.1 104.0 105.9 107.1 108.6 109.1 110.9 113.4 116.7 118.7 120.9 122.4 121.4 | | | | | | | | | | | | | | | | | | |
| 114.2 116.1 117.7 118.7 120.1 120.9 122.6 125.9 129.4 131.3 133.2 134.7 133.2 | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2 // 6 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM., DAY - JENOTS)

| RCG. NO. O. | PROC. DATE - MONTH 8 DAY 30 MR. 15.3 | | | | | | | | | | | | |
|-------------|--------------------------------------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|
| | FULL SIZE SOUND PRESSURE LEVELS | | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | PWL |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | |
| 50 | 82.7 | 85.7 | 87.7 | 87.0 | 88.8 | 89.9 | 92.6 | 94.0 | 96.2 | 101.3 | 107.5 | 109.9 | 110.4 |
| 63 | 83.9 | 88.0 | 86.8 | 89.6 | 92.2 | 92.8 | 93.7 | 95.8 | 98.5 | 103.6 | 109.1 | 112.3 | 112.0 |
| 80 | 86.3 | 87.8 | 90.1 | 90.7 | 92.0 | 93.1 | 94.0 | 97.4 | 100.3 | 105.9 | 111.4 | 113.5 | 112.6 |
| 100 | 86.9 | 88.2 | 89.7 | 90.7 | 92.0 | 93.7 | 94.8 | 97.4 | 101.7 | 107.7 | 112.2 | 113.9 | 112.7 |
| 125 | 88.2 | 90.0 | 90.5 | 91.8 | 93.6 | 94.5 | 96.4 | 99.0 | 102.8 | 108.3 | 111.5 | 113.7 | 112.8 |
| 160 | 89.2 | 91.3 | 91.8 | 93.3 | 94.4 | 96.0 | 97.4 | 100.3 | 104.3 | 109.1 | 111.3 | 112.5 | 112.3 |
| 200 | 91.1 | 92.6 | 93.9 | 94.4 | 95.7 | 97.1 | 98.2 | 101.6 | 104.9 | 108.7 | 110.4 | 110.6 | 111.1 |
| 250 | 91.2 | 92.7 | 94.5 | 95.0 | 96.3 | 97.9 | 98.8 | 102.5 | 106.2 | 108.8 | 109.7 | 111.2 | 110.4 |
| 315 | 91.3 | 93.6 | 94.1 | 95.3 | 97.4 | 98.3 | 99.4 | 101.8 | 107.1 | 108.9 | 109.8 | 111.5 | 111.1 |
| 400 | 92.1 | 93.4 | 95.4 | 95.9 | 97.0 | 98.6 | 100.2 | 103.6 | 107.9 | 109.2 | 109.6 | 111.8 | 110.9 |
| 500 | 92.4 | 94.0 | 94.7 | 96.3 | 97.4 | 98.7 | 100.1 | 103.5 | 108.0 | 108.8 | 109.8 | 112.2 | 111.2 |
| 630 | 93.2 | 94.2 | 95.7 | 97.0 | 98.6 | 98.7 | 100.9 | 104.5 | 108.5 | 109.8 | 111.3 | 112.9 | 111.0 |
| 800 | 92.5 | 93.8 | 95.3 | 96.1 | 97.9 | 99.1 | 100.9 | 104.9 | 107.8 | 109.7 | 110.9 | 112.5 | 109.1 |
| 1000 | 92.4 | 94.4 | 96.5 | 97.5 | 97.8 | 99.4 | 101.3 | 105.3 | 107.5 | 108.6 | 111.3 | 110.9 | 108.4 |
| 1250 | 91.8 | 95.6 | 97.9 | 97.7 | 99.3 | 100.4 | 102.5 | 105.2 | 107.9 | 108.5 | 110.7 | 110.1 | 108.4 |
| 1600 | 91.3 | 95.8 | 98.4 | 98.7 | 99.7 | 100.3 | 102.7 | 105.2 | 107.7 | 108.8 | 109.7 | 110.1 | 106.8 |
| 2000 | 90.4 | 96.5 | 99.1 | 100.3 | 101.2 | 100.3 | 102.4 | 105.1 | 107.6 | 107.0 | 108.7 | 109.8 | 106.5 |
| 2500 | 88.9 | 94.7 | 97.8 | 100.0 | 101.1 | 100.9 | 102.3 | 102.8 | 105.0 | 104.8 | 105.9 | 106.9 | 106.5 |
| 3150 | 87.3 | 93.1 | 96.3 | 99.7 | 101.2 | 100.3 | 103.0 | 103.8 | 105.0 | 104.8 | 105.9 | 106.9 | 105.2 |
| 4000 | 84.5 | 90.3 | 94.0 | 96.4 | 100.4 | 99.4 | 102.1 | 100.2 | 103.5 | 101.8 | 102.9 | 103.3 | 102.5 |
| 5000 | 82.7 | 89.0 | 91.7 | 94.7 | 97.7 | 97.4 | 98.4 | 98.8 | 102.2 | 99.9 | 102.9 | 101.4 | 101.0 |
| 6300 | 81.4 | 88.2 | 92.0 | 94.4 | 97.6 | 96.3 | 99.0 | 98.4 | 100.7 | 98.6 | 101.3 | 102.9 | 100.9 |
| 8000 | 78.2 | 85.1 | 90.7 | 93.2 | 94.8 | 94.2 | 96.8 | 96.2 | 99.0 | 98.7 | 100.5 | 101.0 | 98.3 |
| 10000 | 74.6 | 81.4 | 86.4 | 89.1 | 90.0 | 90.6 | 91.3 | 92.1 | 95.2 | 96.0 | 98.6 | 97.3 | 93.3 |
| 12500 | 72.6 | 78.6 | 84.4 | 86.3 | 86.8 | 88.2 | 88.3 | 90.1 | 93.2 | 95.1 | 98.1 | 94.8 | 91.0 |
| 16000 | 73.5 | 79.2 | 86.0 | 85.6 | 84.9 | 90.1 | 90.7 | 89.2 | 94.0 | 96.8 | 100.4 | 95.6 | 93.6 |
| 20000 | 70.4 | 76.3 | 82.5 | 82.9 | 81.4 | 88.2 | 88.3 | 90.1 | 93.2 | 95.1 | 98.1 | 94.8 | 91.0 |
| PND8 | 113.8 | 118.3 | 121.0 | 123.1 | 124.8 | 124.6 | 126.7 | 127.8 | 130.6 | 131.3 | 133.0 | 133.9 | 131.9 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **2** TEST POINT **2/116** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-.33m(13in²)**

SIZE

| NO | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO EGA | 50 | 40.70 | 49.87 | 51.05 | 52.22 | 53.40 | 54.57 | 55.74 | 56.91 | 58.08 | 59.25 | 60.42 | 61.59 | 62.76 |
| SIDELINE 2400. FT. | 63 | 54.5 | 59.1 | 63.7 | 68.3 | 72.9 | 77.5 | 82.1 | 86.7 | 91.3 | 95.9 | 100.5 | 105.1 | 109.7 |
| (731.52 M) | 80 | 58.0 | 61.4 | 64.8 | 68.2 | 71.6 | 75.0 | 78.4 | 81.8 | 85.2 | 88.6 | 92.0 | 95.4 | 98.8 |
| NFA | 100 | 58.4 | 61.3 | 63.9 | 66.5 | 69.1 | 71.7 | 74.3 | 76.9 | 79.5 | 82.1 | 84.7 | 87.3 | 89.9 |
| (0. RAD/SEC) | 125 | 59.7 | 63.1 | 66.4 | 69.7 | 73.0 | 76.3 | 79.6 | 82.9 | 86.2 | 89.5 | 92.8 | 96.1 | 99.4 |
| NFK | 160 | 60.5 | 64.2 | 67.8 | 71.4 | 75.0 | 78.6 | 82.2 | 85.8 | 89.4 | 93.0 | 96.6 | 100.2 | 103.8 |
| (1. RPM) | 200 | 62.1 | 65.3 | 68.5 | 71.7 | 74.9 | 78.1 | 81.3 | 84.5 | 87.7 | 90.9 | 94.1 | 97.3 | 100.5 |
| (0. RAD/SEC) | 250 | 62.0 | 65.2 | 68.4 | 71.6 | 74.8 | 78.0 | 81.2 | 84.4 | 87.6 | 90.8 | 94.0 | 97.2 | 100.4 |
| NFD | 315 | 61.7 | 65.8 | 69.5 | 73.2 | 76.9 | 80.6 | 84.3 | 88.0 | 91.7 | 95.4 | 99.1 | 102.8 | 106.5 |
| (7500. RPM) | 400 | 62.1 | 65.2 | 68.5 | 71.5 | 74.5 | 77.5 | 80.5 | 83.5 | 86.5 | 89.5 | 92.5 | 95.5 | 98.5 |
| (785. RAD/SEC) | 500 | 61.9 | 65.4 | 68.5 | 71.5 | 74.5 | 77.5 | 80.5 | 83.5 | 86.5 | 89.5 | 92.5 | 95.5 | 98.5 |
| AIRFLOW RATIO | 600 | 62.0 | 65.1 | 68.0 | 70.2 | 72.3 | 74.4 | 76.5 | 78.6 | 80.7 | 82.8 | 84.9 | 87.0 | 89.1 |
| WF/W 4.78 | 800 | 60.4 | 63.9 | 66.9 | 69.7 | 72.5 | 75.3 | 78.1 | 80.9 | 83.7 | 86.5 | 89.3 | 92.1 | 94.9 |
| VEHICLE CELL41 | 1000 | 59.2 | 63.7 | 67.3 | 70.3 | 73.2 | 76.1 | 79.0 | 81.9 | 84.8 | 87.7 | 90.6 | 93.5 | 96.4 |
| CONFIG WCS9 | 1250 | 57.3 | 63.7 | 67.7 | 70.8 | 73.8 | 76.8 | 79.8 | 82.8 | 85.8 | 88.8 | 91.8 | 94.8 | 97.8 |
| LOC C61 ANECH CH | 1600 | 54.6 | 62.3 | 66.8 | 70.1 | 73.4 | 76.7 | 80.0 | 83.3 | 86.6 | 89.9 | 93.2 | 96.5 | 99.8 |
| DATE 06-16-75 | 2000 | 51.6 | 61.1 | 65.8 | 68.4 | 71.0 | 73.6 | 76.2 | 78.8 | 81.4 | 84.0 | 86.6 | 89.2 | 91.8 |
| RUN CONFZVELDEPN | 2500 | 46.8 | 58.4 | 62.1 | 65.8 | 69.4 | 73.0 | 76.6 | 80.2 | 83.8 | 87.4 | 91.0 | 94.6 | 98.2 |
| TAPE X21160 | 3150 | 39.8 | 50.4 | 52.1 | 55.8 | 59.4 | 63.0 | 66.6 | 70.2 | 73.8 | 77.4 | 81.0 | 84.6 | 88.2 |
| FAN TIP SPEED | 4000 | 28.9 | 40.9 | 48.4 | 53.2 | 58.0 | 62.8 | 67.6 | 72.4 | 77.2 | 82.0 | 86.8 | 91.6 | 96.4 |
| FT/SEC | 5000 | 22.4 | 35.6 | 42.6 | 48.4 | 52.8 | 57.2 | 61.6 | 66.0 | 70.4 | 74.8 | 79.2 | 83.6 | 88.0 |
| | 6000 | 7.3 | 23.4 | 32.9 | 38.8 | 44.0 | 49.4 | 54.8 | 60.2 | 65.6 | 71.0 | 76.4 | 81.8 | 87.2 |
| | 8000 | | 2.7 | 16.2 | 23.5 | 27.7 | 32.5 | 37.3 | 42.1 | 46.9 | 51.7 | 56.5 | 61.3 | 66.1 |
| | 10000 | | | | 4.1 | 5.8 | 7.5 | 9.2 | 10.9 | 12.6 | 14.3 | 16.0 | 17.7 | 19.4 |
| | 12500 | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 72.1 | 76.1 | 79.0 | 80.9 | 82.8 | 83.9 | 85.4 | 88.0 | 90.7 | 92.0 | 92.7 | 91.9 | 87.2 |
| PNDB | | 76.9 | 83.0 | 87.1 | 89.6 | 91.7 | 92.2 | 93.7 | 95.6 | 97.4 | 97.3 | 96.7 | 94.8 | 88.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE

2 2116 731.5m(2400ft.) SIDELINE FULL-33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 15.1
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM IMLET IN DEGREES (AND RADIANs)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PUL
 FREQ. (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)(3.2)(3.5)(3.8)(4.1)(4.5)(4.9)(5.3)(5.8)(6.3)(6.9)(7.5)(8.1)(8.8)(9.5)(10.2)(11.0)(11.9)(12.8)(13.6)(14.5)(15.5)(16.6)(17.6)(18.8)(20.0)(21.3)(22.7)(24.1)(25.6)(27.1)(28.7)(30.4)(32.1)(34.0)(36.0)(38.1)(40.3)(42.7)(45.2)(47.9)(50.7)(53.7)(56.8)(60.1)(63.6)(67.3)(71.3)(75.6)(80.1)(85.0)(90.0)(95.3)(101.0)(107.1)(113.6)(120.5)(127.8)(135.5)(143.6)(152.1)(160.9)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PUL |
|--|------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 63 | 80.1 | 89.4 | 86.9 | 88.5 | 90.5 | 89.9 | 90.5 | 91.2 | 91.9 | 93.5 | 97.4 | 97.6 | 99.9 | 134.8 |
| 100 | 80 | 79.1 | 83.4 | 84.6 | 87.4 | 89.5 | 90.6 | 91.0 | 91.9 | 90.7 | 89.7 | 98.6 | 100.8 | 101.6 | 135.6 |
| 160 | CELL41 | 79.4 | 82.2 | 85.7 | 85.7 | 86.3 | 86.9 | 86.8 | 89.0 | 89.9 | 95.5 | 99.9 | 101.6 | 103.9 | 149.5 |
| 200 | NC59 | 82.5 | 82.3 | 84.0 | 86.1 | 86.9 | 87.8 | 88.9 | 91.3 | 94.3 | 97.9 | 102.3 | 107.0 | 108.3 | 142.8 |
| 250 | C41 ANECH CH | 81.6 | 84.8 | 86.3 | 86.1 | 87.5 | 88.8 | 91.2 | 93.1 | 95.6 | 99.7 | 106.4 | 109.0 | 110.1 | 145.0 |
| 315 | DATE 06-16-76 | 82.7 | 87.2 | 85.7 | 88.2 | 90.6 | 91.2 | 92.3 | 94.5 | 97.7 | 102.3 | 108.2 | 111.9 | 111.9 | 146.5 |
| 400 | RUN CONF2VELDEPM | 85.2 | 86.7 | 88.7 | 88.7 | 90.6 | 91.5 | 92.3 | 95.7 | 99.2 | 105.0 | 110.7 | 113.2 | 112.5 | 147.6 |
| 500 | TAPE X21170 | 85.5 | 86.5 | 88.3 | 89.3 | 90.9 | 92.5 | 93.9 | 96.3 | 100.0 | 106.4 | 112.1 | 114.5 | 112.8 | 148.0 |
| 630 | BAR 29.5 HG | 86.9 | 88.4 | 89.6 | 91.2 | 92.5 | 93.4 | 95.0 | 97.9 | 101.9 | 107.0 | 111.9 | 114.6 | 113.9 | 147.8 |
| 800 | (99448. N/M2) | 88.6 | 89.9 | 90.7 | 92.4 | 93.5 | 94.7 | 96.5 | 98.7 | 103.4 | 107.7 | 111.9 | 114.6 | 113.9 | 147.9 |
| 1000 | TAPB 63. DEG F | 91.7 | 92.5 | 94.0 | 93.8 | 94.9 | 96.2 | 97.4 | 100.3 | 103.7 | 107.3 | 111.0 | 113.7 | 113.7 | 147.8 |
| 1250 | (290. DEG K) | 90.8 | 91.8 | 94.1 | 94.4 | 95.7 | 97.6 | 97.9 | 101.1 | 104.6 | 107.9 | 109.9 | 114.0 | 114.1 | 147.9 |
| 1600 | THET 59. DEG F | 90.9 | 92.4 | 92.9 | 94.5 | 96.3 | 97.7 | 98.3 | 101.2 | 105.7 | 108.0 | 109.2 | 113.9 | 113.4 | 147.8 |
| 2000 | (288. DEG K) | 92.2 | 93.0 | 95.0 | 95.0 | 96.3 | 97.0 | 99.1 | 102.3 | 106.0 | 107.6 | 109.3 | 113.4 | 112.5 | 147.5 |
| 2500 | HACT11.27 GM/M3 | 93.0 | 93.8 | 94.6 | 94.9 | 96.7 | 97.6 | 99.5 | 102.4 | 106.3 | 106.9 | 109.1 | 113.0 | 110.8 | 147.1 |
| 3150 | (.01127 KG/M3) | 95.0 | 95.0 | 95.6 | 96.8 | 97.4 | 98.0 | 99.7 | 102.8 | 107.3 | 107.6 | 110.3 | 112.8 | 110.3 | 146.7 |
| 4000 | FREQ. SHIFT | 94.3 | 95.6 | 95.6 | 95.9 | 96.7 | 97.6 | 99.7 | 103.1 | 106.3 | 107.9 | 109.9 | 110.8 | 107.3 | 146.7 |
| 5000 | JET 0 | 93.9 | 95.5 | 96.5 | 97.0 | 97.6 | 98.7 | 100.1 | 103.3 | 105.7 | 107.3 | 109.8 | 109.9 | 106.2 | 146.4 |
| 6300 | DIAMETER RATIO | 93.0 | 95.8 | 96.8 | 96.8 | 98.2 | 99.5 | 101.2 | 103.6 | 106.3 | 106.7 | 109.4 | 109.3 | 106.0 | 146.5 |
| 8000 | DF/DM 1 | 92.0 | 94.6 | 96.2 | 97.2 | 99.6 | 99.6 | 101.5 | 103.7 | 105.4 | 106.5 | 108.2 | 107.6 | 105.1 | 146.0 |
| 10000 | | 89.9 | 94.5 | 96.1 | 97.4 | 99.4 | 98.5 | 100.2 | 103.1 | 105.4 | 105.1 | 106.7 | 107.6 | 105.0 | 145.7 |
| 12500 | | 87.6 | 92.9 | 94.7 | 96.2 | 98.0 | 97.9 | 100.0 | 101.4 | 103.2 | 103.4 | 104.3 | 104.9 | 103.4 | 144.3 |
| 16000 | | 85.7 | 91.2 | 93.4 | 95.4 | 97.4 | 96.7 | 99.6 | 99.2 | 102.4 | 101.2 | 102.8 | 104.1 | 101.2 | 143.9 |
| 20000 | | 82.7 | 87.8 | 90.7 | 92.8 | 96.1 | 94.6 | 97.8 | 96.4 | 99.5 | 98.3 | 99.4 | 100.8 | 99.4 | 142.2 |
| 25000 | | 79.1 | 85.9 | 87.9 | 89.6 | 92.3 | 91.8 | 92.6 | 93.8 | 96.6 | 94.8 | 97.6 | 96.6 | 96.7 | 140.5 |
| 31500 | | 76.5 | 83.1 | 86.6 | 88.5 | 91.0 | 89.9 | 91.9 | 91.3 | 93.6 | 91.5 | 94.7 | 97.3 | 93.7 | 140.7 |
| 40000 | | 70.9 | 78.1 | 82.8 | 84.5 | 86.1 | 85.8 | 87.1 | 86.5 | 89.3 | 89.0 | 91.8 | 92.6 | 91.1 | 138.0 |
| 50000 | | 63.9 | 71.4 | 76.4 | 77.4 | 78.5 | 78.8 | 79.1 | 79.6 | 82.9 | 83.0 | 87.4 | 86.0 | 85.6 | 138.1 |
| 63000 | | 56.9 | 64.3 | 69.7 | 70.6 | 70.8 | 72.3 | 71.6 | 73.1 | 76.8 | 77.7 | 82.2 | 78.1 | 79.5 | 138.1 |
| 80000 | | 51.0 | 58.2 | 64.5 | 63.3 | 62.9 | 64.8 | 62.5 | 66.2 | 70.8 | 72.9 | 77.4 | 73.2 | 73.8 | 142.1 |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 103.9 105.9 107.1 108.0 109.5 110.1 111.8 112.2 113.4 114.5 115.3 122.9 125.1 124.1 | | | | | | | | | | | | | | | |
| PNBB 117.3 118.6 119.3 120.2 121.3 122.1 123.6 126.6 130.2 131.8 134.6 137.0 135.2 | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 2/17 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

| NO E3A
DGG. NO.
RADIOAL 150. FT.
(45. M) | PROC. DATE - MONTH 8 DAY 30 MR. 15.3 | | | | | | | | | | | | |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS) | | | | | | | | | | | | |
| | ANGLE FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | |
| | E. C. O. (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) | | | | | | | | | | | | |
| | P.M.L | | | | | | | | | | | | |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (G.70)(0.57)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0) | 50 | 63 | 80 | 87.3 | 88.8 | 90.8 | 90.9 | 92.7 | 93.6 | 94.5 | 97.9 | 101.3 | 107.1 |
| VEHICLE | 33.7 | 85.9 | 85.4 | 83.2 | 39.6 | 90.9 | 93.3 | 95.2 | 97.7 | 101.8 | 108.5 | 111.2 | 112.2 |
| LOC C41 ANECHOIC CH | 84.8 | 89.3 | 87.8 | 90.3 | 92.7 | 93.3 | 94.4 | 96.6 | 99.8 | 104.4 | 110.3 | 114.0 | 114.0 |
| DATE 06-16-76 | 87.6 | 88.7 | 93.4 | 91.4 | 93.0 | 94.7 | 96.0 | 98.4 | 102.2 | 108.3 | 114.2 | 116.6 | 114.9 |
| RUN CONF2VELDEPN | 89.7 | 91.5 | 91.8 | 93.3 | 94.6 | 95.5 | 97.1 | 100.0 | 104.0 | 109.1 | 114.0 | 116.7 | 115.2 |
| TAPE X21170 | 90.7 | 92.0 | 92.8 | 94.6 | 95.7 | 96.8 | 98.5 | 100.8 | 105.5 | 109.8 | 114.1 | 116.7 | 116.0 |
| BAR 29.5 HG | 93.3 | 94.6 | 95.1 | 95.9 | 97.0 | 98.4 | 99.5 | 102.4 | 105.9 | 109.4 | 113.1 | 115.8 | 115.9 |
| TAMB 63. DEG F | 92.9 | 93.9 | 96.2 | 96.5 | 97.8 | 99.7 | 100.1 | 103.2 | 105.7 | 110.0 | 112.0 | 116.2 | 116.2 |
| TWET 59. DEG F | 93.0 | 94.6 | 95.1 | 96.6 | 98.4 | 99.8 | 100.4 | 103.3 | 107.8 | 110.1 | 111.3 | 116.0 | 115.6 |
| MACT11-27 54/M3 | 94.3 | 95.1 | 97.1 | 97.1 | 98.5 | 99.1 | 101.2 | 104.4 | 109.1 | 109.7 | 111.4 | 115.6 | 114.6 |
| FREQ. SHIFT | 95.2 | 96.0 | 96.7 | 97.0 | 98.9 | 99.7 | 101.6 | 104.5 | 103.5 | 109.1 | 111.3 | 115.2 | 113.0 |
| JET 7 | 97.2 | 97.2 | 97.7 | 99.0 | 99.6 | 100.2 | 101.9 | 105.0 | 109.5 | 109.8 | 112.5 | 114.9 | 112.5 |
| DIAMETER RATIO | 96.5 | 97.2 | 97.8 | 98.1 | 98.9 | 99.8 | 101.9 | 105.4 | 108.6 | 110.2 | 112.1 | 113.0 | 109.6 |
| DF/DM 6.78 | 96.1 | 97.7 | 98.7 | 99.3 | 99.8 | 101.0 | 102.3 | 105.5 | 108.0 | 109.6 | 112.0 | 112.2 | 108.5 |
| OVERALL CALCULATED | 95.3 | 98.1 | 99.2 | 99.2 | 100.5 | 101.9 | 103.5 | 105.9 | 108.7 | 109.0 | 111.7 | 111.6 | 108.4 |
| | 94.5 | 97.1 | 98.7 | 99.7 | 101.2 | 102.1 | 104.0 | 106.2 | 107.9 | 109.0 | 110.7 | 110.3 | 107.6 |
| | 92.7 | 97.3 | 98.9 | 100.1 | 102.2 | 101.3 | 102.9 | 105.9 | 108.1 | 107.8 | 109.4 | 108.3 | 107.8 |
| | 90.7 | 95.9 | 97.8 | 99.3 | 101.1 | 100.9 | 103.1 | 104.4 | 106.3 | 106.5 | 107.4 | 108.0 | 106.4 |
| | 89.3 | 94.9 | 97.1 | 99.0 | 101.0 | 100.4 | 103.3 | 103.3 | 106.1 | 104.8 | 106.4 | 107.7 | 104.9 |
| | 87.0 | 92.1 | 95.0 | 97.1 | 100.4 | 99.0 | 102.1 | 100.7 | 103.8 | 102.6 | 103.7 | 105.1 | 103.7 |
| | 84.7 | 91.5 | 93.5 | 95.3 | 98.0 | 97.6 | 98.2 | 99.4 | 102.2 | 100.4 | 103.2 | 102.3 | 102.3 |
| | 83.7 | 90.3 | 93.8 | 95.7 | 98.2 | 97.1 | 99.1 | 98.5 | 100.8 | 98.7 | 101.9 | 104.5 | 100.9 |
| | 80.5 | 87.6 | 92.3 | 94.1 | 95.6 | 95.4 | 96.6 | 96.0 | 98.9 | 98.5 | 101.3 | 102.1 | 100.7 |
| | 76.5 | 84.0 | 89.0 | 90.0 | 91.1 | 91.4 | 91.7 | 92.2 | 95.5 | 95.6 | 99.9 | 98.6 | 98.2 |
| | 74.0 | 81.3 | 86.8 | 87.7 | 87.9 | 89.3 | 88.6 | 90.2 | 93.8 | 94.8 | 99.3 | 95.1 | 96.6 |
| | 74.4 | 81.6 | 87.9 | 86.7 | 86.3 | 90.2 | 90.9 | 89.6 | 94.2 | 96.3 | 100.8 | 96.5 | 97.2 |
| | 106.1 | 108.3 | 109.7 | 110.7 | 112.3 | 112.7 | 114.4 | 116.7 | 119.8 | 121.6 | 124.7 | 127.2 | 126.1 |
| | 116.1 | 120.0 | 121.9 | 123.3 | 125.2 | 125.1 | 127.2 | 128.4 | 131.3 | 131.8 | 133.9 | 135.5 | 133.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **2** TEST POINT **2/7** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250. 260. 270. 280. 290. 300. 310. 320. 330. 340. 350. 360. 370. 380. 390. 400. 410. 420. 430. 440. 450. 460. 470. 480. 490. 500. 510. 520. 530. 540. 550. 560. 570. 580. 590. 600. 610. 620. 630. 640. 650. 660. 670. 680. 690. 700. 710. 720. 730. 740. 750. 760. 770. 780. 790. 800. 810. 820. 830. 840. 850. 860. 870. 880. 890. 900. 910. 920. 930. 940. 950. 960. 970. 980. 990. 1000.

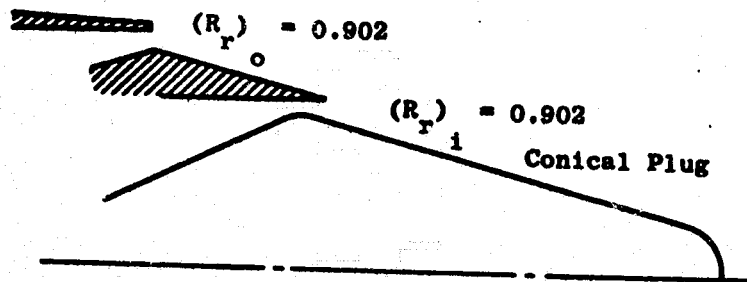
| NO STA | SIDELINE 2400. FT. | MFA (0. RAD/SEC) | VFK (1. RPM) | NFD (7500. RPM) | AIRFLOW RATIO W/F/W 4.78 | VEHICLE CONFIG | LOC | DATE | RUN | TAPE | FAN TIP SPEED FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | | | | | | | |
|--------------------|--------------------|-------------------|---------------|------------------|--------------------------|----------------|------|------|------|------|----------------------|--|------|------|-----|-----|-----|------|------|------|------|------|------|
| | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| 50 | 55.5 | 60.3 | 52.9 | 63.4 | 65.2 | 66.7 | 68.9 | 70.4 | 72.2 | 75.2 | 80.3 | 80.7 | 78.3 | 160. | | | | | | | | | |
| 80 | 59.0 | 62.6 | 65.2 | 66.5 | 68.3 | 69.0 | 70.0 | 71.7 | 74.2 | 77.7 | 82.1 | 83.5 | 80.0 | 150. | | | | | | | | | |
| 100 | 59.2 | 61.8 | 64.7 | 66.5 | 68.5 | 69.2 | 70.0 | 73.0 | 75.7 | 80.4 | 84.5 | 84.6 | 80.4 | 140. | | | | | | | | | |
| 125 | 60.4 | 63.6 | 66.0 | 68.2 | 70.0 | 71.0 | 72.5 | 75.0 | 78.2 | 82.1 | 85.5 | 85.8 | 81.1 | 130. | | | | | | | | | |
| 150 | 62.0 | 64.9 | 66.8 | 69.4 | 70.9 | 72.2 | 73.9 | 75.6 | 79.6 | 82.8 | 85.3 | 85.6 | 81.0 | 120. | | | | | | | | | |
| 200 | 64.9 | 67.3 | 70.0 | 70.6 | 72.1 | 73.6 | 74.6 | 77.1 | 79.8 | 82.2 | 84.2 | 84.4 | 80.5 | 110. | | | | | | | | | |
| 250 | 63.7 | 66.5 | 69.9 | 71.0 | 72.8 | 74.8 | 75.0 | 77.7 | 80.4 | 82.6 | 82.8 | 84.4 | 80.3 | 100. | | | | | | | | | |
| 315 | 63.5 | 66.8 | 68.5 | 70.9 | 73.2 | 74.7 | 75.2 | 77.6 | 81.3 | 82.4 | 81.8 | 83.8 | 79.0 | 90. | | | | | | | | | |
| 400 | 64.3 | 67.0 | 70.3 | 71.1 | 73.0 | 73.7 | 75.7 | 78.4 | 81.3 | 81.6 | 81.4 | 82.8 | 77.2 | 80. | | | | | | | | | |
| 500 | 64.7 | 67.4 | 69.5 | 70.7 | 73.0 | 74.0 | 75.7 | 78.2 | 81.3 | 80.5 | 80.8 | 81.7 | 74.6 | 70. | | | | | | | | | |
| 630 | 66.0 | 68.1 | 70.0 | 72.2 | 73.3 | 74.1 | 75.6 | 78.2 | 81.5 | 80.7 | 81.3 | 80.6 | 72.8 | 60. | | | | | | | | | |
| 800 | 64.4 | 67.9 | 69.4 | 70.7 | 72.1 | 73.1 | 75.1 | 77.9 | 80.2 | 80.3 | 80.0 | 77.5 | 68.1 | 50. | | | | | | | | | |
| 1000 | 63.0 | 66.9 | 69.6 | 71.1 | 72.3 | 73.6 | 76.8 | 77.6 | 78.8 | 78.8 | 78.8 | 75.2 | 65.0 | 40. | | | | | | | | | |
| 1250 | 60.8 | 66.2 | 69.0 | 70.1 | 72.1 | 73.6 | 75.1 | 76.9 | 78.5 | 77.1 | 77.2 | 72.9 | 62.3 | 30. | | | | | | | | | |
| 1600 | 58.0 | 63.6 | 67.1 | 69.3 | 71.6 | 72.6 | 74.3 | 75.8 | 76.3 | 75.5 | 74.2 | 69.1 | 57.8 | 20. | | | | | | | | | |
| 2000 | 53.9 | 61.8 | 65.6 | 68.2 | 71.0 | 70.4 | 71.8 | 73.9 | 74.8 | 72.3 | 70.6 | 66.1 | 53.5 | 10. | | | | | | | | | |
| 2500 | 48.5 | 57.7 | 62.1 | 65.1 | 67.8 | 67.9 | 69.8 | 70.3 | 70.6 | 68.3 | 65.3 | 59.4 | 45.8 | 5. | | | | | | | | | |
| 3150 | 41.8 | 52.1 | 57.4 | 61.2 | 64.3 | 64.0 | 66.5 | 65.5 | 66.4 | 62.1 | 58.9 | 52.1 | 33.9 | 0. | | | | | | | | | |
| 4000 | 31.4 | 42.7 | 49.4 | 53.9 | 58.5 | 57.5 | 60.3 | 53.0 | 53.2 | 47.1 | 42.9 | 30.1 | 17.3 | 0. | | | | | | | | | |
| 5000 | 24.4 | 38.2 | 44.5 | 48.9 | 53.1 | 53.0 | 53.3 | 53.0 | 53.2 | 47.1 | 42.9 | 30.1 | 17.3 | 0. | | | | | | | | | |
| 6300 | 9.6 | 25.5 | 34.7 | 40.1 | 46.5 | 44.1 | 45.4 | 42.9 | 41.7 | 33.9 | 27.8 | 14.5 | 6.9 | 0. | | | | | | | | | |
| 8000 | | 5.3 | 17.8 | 24.3 | 28.5 | 29.1 | 29.5 | 26.3 | 24.3 | 16.2 | 6.2 | | | 0. | | | | | | | | | |
| 10000 | | | | 0.6 | 5.2 | 6.6 | 5.8 | | | | | | | 0. | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | 0. | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | 0. | | | | | | | | | |
| PNDB | 74.7 | 78.0 | 80.5 | 82.1 | 84.0 | 85.1 | 86.4 | 88.7 | 91.4 | 92.8 | 94.6 | 94.9 | 90.2 | | | | | | | | | | |
| OVERALL CALCULATED | 79.9 | 84.5 | 87.9 | 90.2 | 92.7 | 93.1 | 96.7 | 96.3 | 98.1 | 97.9 | 98.2 | 97.8 | 91.6 | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION: 2 TEST POINT: 2/17 ACUSTIC RANGE: 731.5m(2400ft.) SIDELINE: FULL - .33m²(513in²) SIZE: 731.5m(2400ft.) SIDELINE

6.3 Acoustic Data

- Coannular Configuration 3



$$A^o = 11.057 \text{ in.}^2$$

$$A_T = A^o + A^i = 16.935 \text{ in.}^2$$

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

PRECEDING PAGE BLANK NOT FILMED

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM, DAY - JETOTS)
 PROC. DATE - MONTH 3 DAY 24 HR. 12.1
 ANGLES FROM INLET IN DEGREES (AND RADIIANS) 0. 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200.

| RDG. NO. | NO. OF
VEHICLE
CONFIS | LOC | DATE | RUN | TAPE | BAR | (98975. N/M2) | TAMB | TVET | MACT | FREQ. | SHIFT | JET | DIAMETER | DF/DM | RATIO | TEST POINT | ACOUSTIC RANGE | SIZE |
|--------------------|-----------------------------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------------|----------------|-------------------|
| 50 | 89.3 | 0. | 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 | 2.97 | 315 | 106.3 | 45.7m(150ft.) ARC |
| 63 | 91.4 | 0. | 93.4 | 91.6 | 93.7 | 96.3 | 87.4 | 98.3 | 100.7 | 105.1 | 110.9 | 115.6 | 118.3 | 117.4 | 117.4 | 117.4 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 80 | 92.2 | 0. | 94.2 | 94.4 | 95.5 | 97.1 | 87.7 | 99.3 | 102.4 | 107.4 | 113.5 | 118.7 | 120.1 | 117.7 | 117.7 | 117.7 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 100 | 94.3 | 0. | 95.1 | 95.8 | 97.6 | 98.7 | 89.0 | 100.6 | 104.0 | 109.0 | 116.8 | 120.8 | 121.2 | 118.0 | 118.0 | 118.0 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 125 | 96.8 | 0. | 97.9 | 97.9 | 99.1 | 100.5 | 90.8 | 102.5 | 106.1 | 111.8 | 118.7 | 122.1 | 122.0 | 118.6 | 118.6 | 118.6 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 160 | 101.7 | 0. | 102.7 | 103.9 | 103.2 | 103.1 | 93.7 | 105.6 | 109.0 | 114.2 | 121.2 | 124.1 | 123.1 | 119.9 | 119.9 | 119.9 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 200 | 100.0 | 0. | 102.8 | 104.0 | 104.3 | 104.9 | 96.0 | 106.4 | 110.8 | 115.8 | 122.5 | 125.0 | 123.4 | 121.2 | 121.2 | 121.2 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 250 | 98.9 | 0. | 100.9 | 101.4 | 101.9 | 103.0 | 95.1 | 107.0 | 110.6 | 115.7 | 122.5 | 125.7 | 124.5 | 121.0 | 121.0 | 121.0 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 315 | 100.2 | 0. | 101.7 | 103.2 | 102.7 | 104.1 | 94.9 | 108.1 | 111.7 | 115.7 | 121.8 | 125.2 | 122.4 | 117.4 | 117.4 | 117.4 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 400 | 100.0 | 0. | 101.1 | 102.6 | 103.6 | 105.0 | 95.6 | 108.0 | 112.9 | 116.3 | 120.4 | 123.4 | 120.5 | 115.6 | 115.6 | 115.6 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 500 | 101.9 | 0. | 103.6 | 104.6 | 104.1 | 104.7 | 95.8 | 108.5 | 112.9 | 116.6 | 120.7 | 122.9 | 119.1 | 114.1 | 114.1 | 114.1 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 630 | 101.9 | 0. | 103.4 | 103.7 | 103.5 | 104.3 | 95.7 | 108.1 | 112.7 | 115.7 | 119.8 | 120.5 | 116.9 | 112.2 | 112.2 | 112.2 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 800 | 101.5 | 0. | 104.6 | 104.8 | 104.1 | 105.2 | 96.6 | 108.2 | 112.9 | 115.6 | 118.4 | 119.6 | 115.8 | 111.8 | 111.8 | 111.8 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 1000 | 100.4 | 0. | 104.2 | 105.0 | 105.0 | 106.1 | 97.0 | 109.1 | 113.0 | 115.5 | 117.9 | 118.8 | 115.2 | 112.2 | 112.2 | 112.2 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 1250 | 100.9 | 0. | 103.5 | 104.0 | 105.3 | 107.1 | 97.7 | 109.3 | 112.3 | 115.3 | 117.6 | 117.3 | 113.9 | 112.7 | 112.7 | 112.7 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 1600 | 98.3 | 0. | 103.9 | 104.7 | 105.7 | 107.3 | 97.4 | 108.5 | 112.5 | 114.7 | 116.6 | 116.8 | 113.9 | 112.1 | 112.1 | 112.1 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 2000 | 97.3 | 0. | 103.5 | 103.9 | 105.1 | 106.2 | 97.0 | 108.1 | 110.9 | 113.2 | 114.3 | 114.7 | 111.8 | 110.8 | 110.8 | 110.8 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 2500 | 96.7 | 0. | 102.7 | 103.9 | 105.6 | 106.9 | 96.5 | 107.7 | 109.8 | 112.9 | 113.4 | 114.0 | 110.8 | 111.0 | 111.0 | 111.0 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 3150 | 94.7 | 0. | 100.5 | 102.6 | 104.8 | 106.8 | 95.9 | 106.9 | 108.3 | 111.4 | 111.9 | 112.0 | 108.6 | 108.6 | 108.6 | 108.6 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 4000 | 92.7 | 0. | 99.2 | 100.5 | 102.6 | 104.6 | 94.3 | 104.6 | 106.4 | 109.3 | 110.2 | 111.3 | 105.8 | 105.9 | 105.9 | 105.9 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 5000 | 92.3 | 0. | 99.1 | 101.0 | 102.8 | 105.3 | 94.5 | 104.2 | 106.5 | 109.3 | 109.9 | 111.4 | 107.0 | 105.7 | 105.7 | 105.7 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 6300 | 89.3 | 0. | 96.6 | 100.2 | 101.7 | 102.6 | 92.3 | 102.3 | 106.1 | 108.2 | 109.8 | 110.6 | 105.2 | 103.6 | 103.6 | 103.6 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 8000 | 85.7 | 0. | 93.0 | 97.4 | 99.3 | 98.9 | 89.2 | 99.7 | 102.8 | 105.7 | 109.2 | 109.8 | 103.3 | 99.5 | 99.5 | 99.5 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 10000 | 83.8 | 0. | 90.9 | 96.2 | 98.0 | 97.5 | 87.7 | 98.0 | 100.8 | 105.0 | 109.3 | 109.6 | 101.6 | 97.9 | 97.9 | 97.9 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| 12500 | 86.1 | 0. | 92.0 | 98.3 | 101.3 | 100.2 | 91.1 | 100.2 | 101.1 | 104.4 | 112.0 | 114.1 | 102.6 | 98.6 | 98.6 | 98.6 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| OVERALL CALCULATED | 112.0 | 115.0 | 116.1 | 116.8 | 118.0 | 108.6 | 120.2 | 123.8 | 127.4 | 132.2 | 134.7 | 133.1 | 129.8 | 165.5 | 165.5 | 165.5 | 100.7 | 106.3 | 45.7m(150ft.) ARC |
| PND B | 122.0 | 126.7 | 128.0 | 129.3 | 130.8 | 120.8 | 131.9 | 134.8 | 138.0 | 140.6 | 142.2 | 139.6 | 137.2 | 181.2 | 181.2 | 181.2 | 100.7 | 106.3 | 45.7m(150ft.) ARC |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/2 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 12.1

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F. 70 PERCENT REL. HUM. DAT)

| NO EGA
SIDE LINE 2400 FT.
(731.52 M) | FREQ.
(0.70)(0.87)(1.05) 50.
60. 70. 80. | LEVELS SCALED FROM MODEL DATA (SP. DEG. F. 70 PERCENT REL. HUM. DAT) | | | | | MUM. DAT) |
|--|--|--|------|------|------|-------|-----------|
| | | 40. | 50. | 60. | 70. | 80. | |
| 63 | 61.2 | 66.8 | 66.1 | 68.9 | 71.9 | 74.9 | 160. |
| 80 | 63.9 | 66.0 | 68.8 | 69.6 | 71.6 | 74.9 | 160. |
| 100 | 65.9 | 68.3 | 70.1 | 72.7 | 74.2 | 77.9 | 160. |
| 125 | 68.3 | 69.9 | 72.1 | 74.1 | 75.9 | 79.6 | 160. |
| 160 | 72.9 | 75.6 | 78.0 | 78.3 | 80.8 | 83.8 | 160. |
| 200 | 71.0 | 75.5 | 78.0 | 79.0 | 80.0 | 81.5 | 160. |
| 250 | 69.6 | 73.4 | 75.1 | 76.4 | 78.0 | 79.4 | 160. |
| 315 | 70.6 | 73.9 | 76.7 | 77.0 | 78.8 | 80.8 | 160. |
| 400 | 70.0 | 72.9 | 75.7 | 77.6 | 79.4 | 82.4 | 160. |
| 500 | 71.0 | 75.0 | 77.1 | 77.8 | 78.8 | 82.6 | 160. |
| 630 | 70.7 | 74.3 | 76.0 | 76.6 | 78.0 | 81.7 | 160. |
| 800 | 69.4 | 74.7 | 76.4 | 76.7 | 78.3 | 81.3 | 160. |
| 1000 | 67.2 | 73.5 | 75.8 | 76.9 | 78.5 | 81.5 | 160. |
| 1250 | 66.3 | 71.5 | 73.8 | 76.2 | 78.7 | 83.2 | 160. |
| 1600 | 62.8 | 70.4 | 73.1 | 75.3 | 77.6 | 82.1 | 160. |
| 2000 | 58.5 | 68.1 | 70.6 | 73.2 | 75.0 | 79.9 | 160. |
| 2500 | 54.6 | 64.5 | 68.2 | 71.4 | 73.6 | 77.2 | 160. |
| 3150 | 47.2 | 57.8 | 62.9 | 67.0 | 70.0 | 75.1 | 160. |
| 4000 | 37.0 | 49.7 | 54.9 | 59.4 | 62.7 | 69.2 | 160. |
| 5000 | 32.0 | 45.8 | 52.0 | 56.4 | 60.4 | 60.7 | 160. |
| 6300 | 15.3 | 31.8 | 41.1 | 46.2 | 48.9 | 51.1 | 160. |
| 8000 | 10.7 | 22.9 | 29.5 | 31.8 | 32.6 | 33.1 | 160. |
| 10000 | | 0.2 | 8.5 | 11.6 | 12.1 | 11.3 | 160. |
| 12500 | | | | | | | 160. |
| OVERALL CALCULATED | 81.0 | 85.0 | 87.2 | 88.4 | 89.9 | 91.1 | 94.2 |
| PND8 | 85.8 | 91.3 | 94.1 | 96.1 | 98.1 | 100.2 | 105.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/2 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513sq.ft.) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 12.1
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTIS)

| FREQ. | ANGLES FROM INLET IN DEGREES (AMP RADIANS) | | | | | | | | | | PWL | | |
|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. |
| 50 | 89.1 | 92.9 | 91.9 | 93.9 | 96.8 | 97.4 | 98.8 | 101.2 | 104.9 | 110.7 | 116.1 | 118.6 | 117.6 |
| 63 | 91.6 | 93.2 | 94.4 | 94.7 | 96.5 | 97.7 | 99.3 | 102.7 | 114.0 | 119.2 | 119.9 | 117.9 | 163.4 |
| 80 | 92.5 | 93.5 | 94.7 | 96.0 | 97.4 | 99.2 | 100.9 | 104.3 | 109.2 | 117.3 | 121.0 | 118.2 | 165.3 |
| 100 | 94.3 | 95.1 | 95.8 | 97.4 | 98.7 | 100.1 | 102.1 | 105.4 | 111.3 | 119.2 | 122.4 | 119.1 | 167.1 |
| 125 | 97.1 | 94.9 | 97.9 | 99.6 | 100.7 | 102.1 | 104.0 | 107.9 | 113.4 | 121.7 | 124.4 | 123.3 | 168.4 |
| 160 | 101.4 | 102.9 | 103.9 | 103.2 | 103.3 | 104.7 | 105.8 | 109.5 | 113.4 | 122.0 | 125.2 | 123.6 | 170.2 |
| 200 | 100.5 | 103.0 | 104.5 | 104.6 | 105.2 | 105.8 | 107.2 | 110.3 | 114.8 | 122.6 | 125.3 | 125.5 | 170.9 |
| 250 | 99.4 | 100.4 | 101.4 | 102.2 | 103.3 | 105.1 | 106.5 | 110.2 | 115.2 | 122.7 | 125.7 | 124.6 | 171.6 |
| 315 | 100.4 | 101.4 | 103.0 | 102.7 | 103.6 | 104.9 | 107.8 | 111.5 | 115.5 | 121.8 | 124.5 | 122.4 | 170.3 |
| 400 | 100.3 | 101.3 | 103.1 | 103.4 | 105.0 | 105.6 | 108.0 | 112.1 | 115.6 | 120.9 | 123.6 | 120.8 | 169.4 |
| 500 | 102.0 | 102.6 | 103.9 | 103.4 | 105.0 | 106.1 | 108.2 | 112.4 | 115.6 | 120.9 | 122.9 | 119.3 | 168.9 |
| 630 | 101.9 | 103.4 | 103.4 | 103.2 | 104.6 | 105.4 | 107.8 | 112.7 | 115.2 | 120.5 | 117.1 | 112.2 | 167.7 |
| 800 | 102.3 | 104.6 | 104.3 | 104.6 | 104.9 | 106.1 | 108.2 | 112.9 | 115.1 | 118.9 | 119.4 | 116.0 | 166.9 |
| 1000 | 100.9 | 104.0 | 104.8 | 105.0 | 106.1 | 107.2 | 108.6 | 112.3 | 115.5 | 118.1 | 118.6 | 115.5 | 166.5 |
| 1250 | 100.6 | 102.7 | 103.3 | 104.8 | 106.8 | 107.7 | 109.3 | 112.0 | 114.5 | 117.3 | 114.5 | 111.4 | 165.0 |
| 1600 | 99.3 | 103.4 | 104.0 | 104.5 | 107.3 | 107.4 | 108.5 | 112.0 | 114.5 | 117.3 | 114.5 | 111.4 | 166.3 |
| 2000 | 97.8 | 102.8 | 103.9 | 104.9 | 105.9 | 106.5 | 107.8 | 110.6 | 112.7 | 115.3 | 115.0 | 112.6 | 163.8 |
| 2500 | 96.7 | 102.0 | 103.4 | 105.4 | 106.9 | 106.2 | 107.7 | 110.4 | 112.7 | 113.9 | 114.0 | 111.8 | 162.4 |
| 3150 | 94.5 | 100.3 | 101.4 | 103.3 | 106.8 | 105.4 | 106.6 | 108.6 | 110.9 | 112.4 | 111.6 | 109.7 | 161.2 |
| 4000 | 92.4 | 98.7 | 99.6 | 101.9 | 104.4 | 104.1 | 104.1 | 107.7 | 109.6 | 111.2 | 111.5 | 106.6 | 161.1 |
| 5000 | 91.9 | 98.4 | 100.1 | 102.5 | 104.6 | 103.8 | 104.0 | 106.3 | 108.6 | 109.9 | 111.4 | 108.5 | 159.9 |
| 6300 | 89.3 | 95.9 | 99.5 | 101.3 | 102.6 | 101.9 | 101.9 | 103.4 | 107.3 | 110.3 | 111.7 | 106.8 | 160.6 |
| 8000 | 85.5 | 92.3 | 96.3 | 98.6 | 98.7 | 99.0 | 99.2 | 102.1 | 104.5 | 109.5 | 110.1 | 104.7 | 166.1 |
| 10000 | 84.1 | 90.0 | 95.1 | 98.0 | 97.6 | 97.8 | 97.6 | 100.1 | 103.4 | 110.1 | 109.5 | 101.4 | 181.3 |
| 12500 | 86.2 | 91.4 | 97.7 | 101.1 | 100.3 | 101.0 | 100.3 | 101.7 | 107.2 | 113.9 | 113.8 | 102.7 | |
| 12500 | 112.2 | 114.7 | 115.7 | 116.6 | 118.0 | 118.5 | 120.0 | 123.5 | 126.9 | 132.5 | 134.7 | 133.4 | |
| PH88 | 122.1 | 126.1 | 127.5 | 128.9 | 130.8 | 130.5 | 131.8 | 134.8 | 137.6 | 141.1 | 142.1 | 140.0 | |

NO EGA 0.
 RADIAL 150. FT.
 (45. M)
 VEHICLE CELL41
 CONFIG NCA1
 LOC C41 ANECH CH
 DATE 06-01-76
 RUN CONF3LOWFLWC
 TAPE X03130
 BAR 29.3 MG
 (98975. N/M2)
 TAMB 64. DEG F
 (291. DEG K)
 TWET (290. DEG K)
 WACT13.44 GM/MS
 (.01346 KG/MS)
 FREQ. SHIFT
 JET B
 DIAMETER RATIO
 OF/DW 6.81

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 3/3 ACUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m(1513in.)

PROC. DATE - MONTH 8 DAY 24 HR. 12.1

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|--------------------|--------------|--|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIANSES) | | | | | | 0. 0. 0. 0. 0. 0. | | | | | |
| | | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
| | | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.14) | (3.31) | (3.49) |
| FREQ. | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| NO EGA | | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) |
| SIDELINE 2400. FT. | | 60.9 | 66.3 | 66.4 | 69.1 | 72.4 | 73.1 | 74.4 | 76.4 | 79.4 | 84.1 | 85.0 | 88.1 |
| (731.52 M) | | 64.1 | 66.5 | 68.8 | 69.9 | 72.1 | 73.4 | 74.9 | 77.9 | 81.6 | 87.3 | 90.9 | 89.3 |
| NFA | 1. RPM | 65.9 | 68.3 | 70.1 | 71.1 | 72.9 | 74.9 | 76.4 | 79.4 | 83.6 | 90.6 | 92.7 | 90.8 |
| (O. RAD/SEC) | | 68.5 | 69.9 | 72.1 | 74.6 | 76.1 | 77.6 | 79.4 | 80.4 | 85.6 | 92.3 | 93.9 | 91.5 |
| NFX | 1. RPM | 72.7 | 75.9 | 78.0 | 78.1 | 78.6 | 80.1 | 81.1 | 84.3 | 87.5 | 94.9 | 96.5 | 92.5 |
| (O. RAD/SEC) | | 70.1 | 72.9 | 75.1 | 76.7 | 78.2 | 80.3 | 81.0 | 82.3 | 85.0 | 88.7 | 95.4 | 96.4 |
| MFD | 7500. RPM | 70.9 | 73.7 | 76.4 | 77.0 | 78.3 | 79.8 | 82.6 | 85.8 | 88.9 | 95.3 | 96.5 | 92.8 |
| (785. RAD/SEC) | | 70.3 | 73.2 | 76.2 | 77.4 | 79.4 | 80.2 | 82.4 | 86.1 | 88.9 | 94.0 | 94.9 | 90.2 |
| AIRFLOW RATIO | | 71.5 | 74.0 | 76.6 | 77.0 | 79.1 | 80.4 | 82.3 | 86.0 | 88.4 | 92.8 | 93.6 | 88.0 |
| WF/WM 6.81 | | 70.7 | 74.3 | 75.7 | 76.4 | 78.2 | 79.3 | 81.5 | 85.9 | 87.5 | 91.4 | 89.3 | 85.8 |
| VEHICLE | CELL41 | 67.7 | 73.2 | 75.6 | 76.9 | 78.5 | 79.8 | 81.0 | 84.1 | 86.3 | 87.4 | 85.4 | 80.5 |
| CONFIG | NC61 | 66.1 | 70.8 | 73.1 | 75.7 | 78.4 | 79.5 | 80.9 | 84.1 | 86.3 | 87.4 | 85.4 | 78.5 |
| LOC | C41 ANECH CH | 62.8 | 69.9 | 72.4 | 74.1 | 77.6 | 77.9 | 78.8 | 81.6 | 84.8 | 86.2 | 82.8 | 75.8 |
| DATE | 06-01-76 | 59.0 | 67.3 | 70.6 | 73.0 | 74.8 | 75.6 | 76.7 | 78.7 | 79.4 | 79.9 | 76.2 | 68.1 |
| RUN | CONFLOWFLWC | 54.6 | 63.7 | 67.7 | 71.2 | 73.6 | 73.2 | 74.4 | 76.2 | 76.9 | 75.7 | 71.9 | 63.2 |
| TAPE | X0313D | 47.0 | 57.6 | 61.7 | 65.5 | 70.1 | 69.0 | 69.9 | 70.8 | 71.2 | 69.7 | 64.0 | 54.2 |
| FAN TIP SPEED | | 36.8 | 49.2 | 54.0 | 58.7 | 62.5 | 62.6 | 62.2 | 62.5 | 64.0 | 61.8 | 55.9 | 40.5 |
| FT/SEC | | 31.6 | 45.1 | 51.1 | 56.2 | 59.7 | 59.4 | 59.1 | 60.0 | 59.6 | 56.6 | 51.1 | 36.4 |
| | | 15.3 | 31.1 | 40.4 | 45.7 | 48.9 | 48.8 | 48.2 | 49.8 | 48.2 | 45.5 | 37.6 | 16.8 |
| | | 10.0 | 21.7 | 28.9 | 31.6 | 32.7 | 32.1 | 32.4 | 30.0 | 27.1 | 15.0 | | |
| | | 8.6 | 11.7 | 13.0 | 11.7 | 10.7 | 7.3 | 7.3 | 3.3 | | | | |
| OVERALL CALCULATED | | 81.2 | 84.8 | 87.1 | 88.3 | 90.0 | 91.1 | 92.8 | 96.1 | 95.9 | 104.2 | 105.1 | 101.6 |
| PMDB | | 86.1 | 90.9 | 93.7 | 95.8 | 98.1 | 98.8 | 100.1 | 102.9 | 104.9 | 108.7 | 108.7 | 104.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/3 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | | | | PUL | | | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | | | |
| ADG. NO. | 50 | 89.1 | 93.1 | 92.4 | 94.2 | 96.8 | 97.1 | 98.3 | 101.2 | 105.4 | 110.7 | 116.1 | 118.8 | 117.6 | 163.5 |
| RADIAL 150. FT. | 63 | 91.9 | 93.2 | 94.7 | 95.2 | 97.0 | 98.4 | 99.8 | 103.2 | 107.7 | 114.5 | 119.2 | 120.4 | 118.2 | 165.6 |
| VEHICLE (46. M) | 80 | 93.2 | 93.5 | 95.0 | 96.0 | 97.9 | 99.5 | 101.4 | 104.8 | 109.2 | 117.6 | 121.5 | 121.9 | 119.0 | 167.0 |
| CONFIG | 100 | 94.6 | 95.8 | 96.3 | 97.4 | 99.0 | 100.6 | 102.5 | 106.1 | 111.6 | 119.2 | 122.9 | 123.3 | 120.1 | 170.5 |
| LOC C41 ANECHO CH | 125 | 97.1 | 97.1 | 98.4 | 99.1 | 100.7 | 102.1 | 104.2 | 108.1 | 112.9 | 120.9 | 124.9 | 124.1 | 121.6 | 170.8 |
| DATE 06-01-76 | 160 | 101.7 | 103.2 | 103.8 | 103.2 | 103.8 | 103.9 | 105.3 | 109.2 | 113.4 | 121.0 | 125.0 | 124.1 | 122.2 | 170.9 |
| RUN COMFLOWFLWC | 200 | 99.5 | 102.0 | 103.8 | 103.3 | 104.2 | 105.8 | 106.9 | 110.8 | 114.5 | 120.9 | 124.6 | 124.6 | 121.6 | 169.7 |
| BAR 29.3 HG | 250 | 98.6 | 100.9 | 101.7 | 101.7 | 103.0 | 104.9 | 106.5 | 110.2 | 114.7 | 120.0 | 124.4 | 124.6 | 121.6 | 168.8 |
| (98975. N/M2) | 315 | 100.2 | 101.4 | 103.0 | 102.5 | 103.3 | 104.9 | 107.3 | 111.2 | 115.7 | 119.3 | 123.7 | 123.2 | 118.7 | 168.3 |
| TAMB 63. DEG F | 400 | 99.8 | 100.6 | 102.3 | 103.4 | 104.5 | 105.1 | 107.5 | 111.9 | 115.8 | 118.7 | 122.9 | 121.3 | 116.8 | 167.1 |
| (290. DEG K) | 500 | 100.5 | 101.6 | 102.9 | 102.6 | 104.2 | 105.3 | 107.7 | 111.9 | 115.9 | 119.2 | 122.1 | 119.8 | 114.6 | 166.3 |
| THET 61. DEG F | 630 | 101.4 | 102.7 | 103.8 | 103.6 | 104.2 | 105.3 | 107.7 | 112.4 | 115.1 | 117.7 | 119.1 | 117.0 | 112.8 | 165.9 |
| (289. DEG K) | 800 | 100.9 | 104.0 | 105.0 | 105.0 | 105.1 | 106.5 | 108.9 | 113.3 | 115.3 | 117.9 | 118.1 | 116.0 | 112.2 | 165.6 |
| MACT13.12 GM/M3 | 1000 | 99.0 | 103.9 | 104.0 | 105.2 | 106.6 | 107.2 | 108.9 | 112.0 | 115.0 | 116.9 | 117.1 | 115.3 | 112.0 | 164.1 |
| (.01312 KG/M3) | 1250 | 97.8 | 103.0 | 103.7 | 104.9 | 106.2 | 106.5 | 108.1 | 110.6 | 112.4 | 114.6 | 116.6 | 116.0 | 111.4 | 163.7 |
| FREQ. SHIFT | 1600 | 96.7 | 102.5 | 103.4 | 105.6 | 106.7 | 106.3 | 108.0 | 110.1 | 112.4 | 113.4 | 113.8 | 112.3 | 109.8 | 162.3 |
| JET 8 | 2000 | 95.3 | 100.3 | 102.2 | 103.8 | 106.8 | 105.6 | 107.4 | 108.1 | 111.2 | 111.7 | 110.8 | 109.5 | 108.1 | 160.6 |
| DIAMETER RATIO | 2500 | 92.4 | 99.0 | 99.8 | 102.2 | 104.1 | 104.1 | 105.9 | 109.6 | 109.5 | 110.1 | 106.9 | 105.2 | 105.2 | 160.7 |
| DF/DM 6.81 | 3150 | 92.2 | 98.5 | 100.4 | 102.6 | 104.9 | 104.1 | 104.3 | 106.1 | 106.7 | 109.5 | 109.7 | 107.6 | 106.1 | 159.6 |
| OVERALL CALCULATED | 4000 | 89.4 | 96.4 | 99.0 | 101.1 | 102.4 | 102.2 | 102.4 | 105.5 | 107.3 | 110.2 | 110.5 | 106.4 | 104.2 | 161.0 |
| | 5000 | 85.8 | 92.6 | 96.6 | 97.4 | 98.5 | 99.1 | 99.3 | 103.2 | 104.4 | 109.1 | 109.0 | 105.8 | 99.8 | 165.8 |
| | 6300 | 86.2 | 92.0 | 97.0 | 101.2 | 100.4 | 100.8 | 100.4 | 102.0 | 107.6 | 113.2 | 113.6 | 103.8 | 102.6 | |
| | 8000 | 112.0 | 114.7 | 115.6 | 116.5 | 117.8 | 118.3 | 119.9 | 123.4 | 126.8 | 131.2 | 134.3 | 133.8 | 130.7 | |
| | 10000 | 122.0 | 126.4 | 127.5 | 129.0 | 130.7 | 130.5 | 132.0 | 134.7 | 137.5 | 140.2 | 141.6 | 140.3 | 137.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 314 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in.²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | MFA
(0. RAD/SEC) | MFK
(1. RPM) | MFD
(0. RAD/SEC) | AIRFLOW RATIO
WFAWM 6.81 | VEHICLE
COMF6 CELL41
LOC C41 ANECH CM | DATE
06-01-76 | RUN
CONFLOWFLC | TAPE
X03140 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|--|----------------------|------------------|----------------------|-----------------------------|---|------------------|-------------------|----------------|-------------------------|---|-------|-------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| 50 | 60.9 | 66.5 | 69.4 | 72.6 | 75.4 | 78.4 | 82.1 | 85.5 | 89.2 | 91.5 | 94.2 | 90.9 | 82.2 | 79.4 | 76.4 | 79.9 | 84.1 | 88.4 | 83.7 | 160. | |
| 63 | 63.6 | 69.1 | 70.4 | 73.4 | 75.4 | 78.4 | 82.1 | 85.5 | 89.2 | 91.5 | 94.2 | 90.9 | 82.2 | 79.4 | 76.4 | 79.9 | 84.1 | 88.4 | 83.7 | 160. | |
| 80 | 64.9 | 69.7 | 70.4 | 73.4 | 75.4 | 78.4 | 82.1 | 85.5 | 89.2 | 91.5 | 94.2 | 90.9 | 82.2 | 79.4 | 76.4 | 79.9 | 84.1 | 88.4 | 83.7 | 160. | |
| 100 | 66.1 | 69.0 | 70.6 | 72.4 | 74.4 | 76.2 | 77.9 | 81.2 | 85.9 | 92.3 | 94.4 | 92.3 | 94.4 | 92.3 | 94.4 | 92.3 | 94.4 | 92.3 | 94.4 | 92.3 | 94.4 |
| 125 | 68.5 | 70.2 | 72.6 | 74.1 | 76.1 | 77.6 | 79.6 | 83.1 | 87.5 | 93.9 | 96.2 | 93.0 | 87.2 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 |
| 160 | 72.9 | 76.1 | 77.5 | 78.1 | 79.1 | 79.3 | 81.0 | 82.0 | 85.5 | 88.5 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 |
| 200 | 70.5 | 74.8 | 77.7 | 78.0 | 79.3 | 81.0 | 82.0 | 85.5 | 88.5 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 |
| 250 | 69.4 | 73.4 | 76.4 | 76.2 | 78.0 | 80.0 | 81.5 | 84.7 | 88.4 | 92.5 | 95.2 | 92.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 |
| 315 | 70.6 | 73.7 | 76.4 | 76.8 | 78.1 | 79.8 | 82.1 | 85.5 | 89.2 | 91.5 | 94.2 | 90.9 | 82.2 | 79.4 | 76.4 | 79.9 | 84.1 | 88.4 | 83.7 | 160. | 160. |
| 400 | 69.8 | 72.4 | 75.5 | 77.4 | 78.9 | 79.7 | 81.9 | 85.9 | 89.0 | 90.5 | 92.9 | 88.5 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 500 | 70.0 | 73.0 | 75.6 | 76.3 | 78.3 | 79.6 | 81.8 | 85.5 | 88.6 | 90.6 | 91.6 | 86.3 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 |
| 630 | 70.2 | 73.5 | 75.2 | 75.6 | 77.5 | 79.0 | 81.2 | 85.4 | 87.2 | 89.9 | 88.8 | 83.3 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 |
| 800 | 70.4 | 74.7 | 75.4 | 76.2 | 77.3 | 78.6 | 80.8 | 84.9 | 86.7 | 87.8 | 87.0 | 81.5 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 |
| 1000 | 67.7 | 73.2 | 75.8 | 76.9 | 77.5 | 79.1 | 81.3 | 86.1 | 87.1 | 86.9 | 79.0 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 |
| 1250 | 66.1 | 70.8 | 73.8 | 76.2 | 78.2 | 79.0 | 80.4 | 83.0 | 84.8 | 85.0 | 82.5 | 76.8 | 65.9 | 65.9 | 65.9 | 65.9 | 65.9 | 65.9 | 65.9 | 65.9 | 65.9 |
| 1600 | 62.5 | 70.4 | 72.4 | 74.8 | 77.8 | 77.7 | 78.6 | 81.8 | 82.4 | 83.1 | 79.5 | 73.2 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 |
| 2000 | 59.0 | 67.6 | 70.4 | 73.0 | 75.0 | 75.0 | 76.9 | 78.7 | 79.1 | 79.1 | 75.9 | 68.6 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 |
| 2500 | 54.6 | 64.3 | 67.7 | 71.4 | 73.4 | 73.5 | 74.7 | 75.9 | 76.7 | 75.2 | 71.6 | 63.7 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 |
| 3150 | 47.7 | 57.6 | 62.5 | 66.0 | 70.1 | 69.2 | 70.7 | 70.3 | 71.5 | 69.0 | 63.3 | 53.9 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 |
| 4000 | 36.8 | 49.5 | 54.2 | 59.0 | 62.2 | 62.6 | 62.2 | 62.7 | 64.0 | 60.1 | 54.5 | 40.8 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 |
| 5000 | 31.9 | 45.1 | 51.6 | 56.2 | 60.0 | 59.7 | 59.4 | 59.8 | 59.6 | 56.1 | 49.4 | 35.5 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 6300 | 15.3 | 31.6 | 40.0 | 45.5 | 48.8 | 49.1 | 48.8 | 49.9 | 48.2 | 45.4 | 36.4 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 |
| 8000 | 10.3 | 22.1 | 29.7 | 31.4 | 32.8 | 32.8 | 32.2 | 33.5 | 29.9 | 26.7 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 |
| 10000 | 8.9 | 11.3 | 13.1 | 12.0 | 12.0 | 12.0 | 12.1 | 12.0 | 7.9 | 7.9 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| OVERALL CALCULATED | 80.9 | 84.6 | 86.8 | 88.0 | 89.7 | 90.8 | 92.6 | 95.9 | 98.9 | 102.9 | 104.8 | 102.0 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 |
| PMDB | 85.6 | 91.1 | 93.6 | 95.9 | 98.0 | 98.6 | 100.1 | 102.9 | 104.9 | 107.1 | 108.1 | 104.5 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/4 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO. EGA | PROC. DATE - MONTH 8 DAY 24 HR. 10.7 | | | | | | | | | | | |
|--|---------|---|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| | | FREQ. (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) | | | | | | | | | | | |
| 100 | 75.9 | 85.7 | 83.4 | 84.5 | 86.3 | 86.7 | 86.5 | 88.0 | 88.2 | 91.2 | 94.4 | 93.6 | 96.2 |
| 125 | 75.3 | 79.9 | 81.9 | 83.4 | 85.2 | 86.1 | 86.5 | 87.7 | 86.4 | 88.2 | 95.1 | 96.3 | 96.1 |
| 160 | 76.4 | 79.2 | 81.7 | 82.0 | 83.0 | 83.2 | 83.5 | 85.7 | 87.9 | 93.2 | 97.2 | 98.1 | 99.4 |
| 200 | 78.8 | 79.3 | 81.0 | 83.1 | 84.2 | 84.5 | 85.7 | 88.6 | 91.3 | 95.4 | 99.1 | 103.0 | 103.8 |
| 250 | 78.8 | 81.8 | 83.1 | 82.9 | 84.5 | 85.6 | 88.0 | 90.4 | 93.1 | 97.9 | 103.9 | 105.0 | 105.3 |
| 315 | 80.4 | 83.9 | 82.9 | 85.2 | 87.1 | 87.9 | 89.1 | 92.2 | 95.7 | 101.0 | 106.2 | 108.1 | 107.4 |
| 400 | 82.7 | 84.0 | 86.0 | 86.0 | 88.1 | 89.0 | 90.6 | 94.0 | 98.2 | 104.8 | 109.2 | 109.9 | 109.0 |
| 500 | 83.5 | 84.5 | 86.0 | 86.8 | 88.2 | 90.5 | 91.9 | 95.6 | 99.8 | 107.4 | 111.1 | 111.7 | 109.0 |
| 630 | 84.6 | 86.6 | 87.1 | 88.4 | 90.0 | 91.4 | 93.5 | 97.2 | 102.4 | 109.5 | 112.9 | 113.1 | 110.1 |
| 800 | 87.1 | 88.2 | 88.7 | 90.2 | 92.0 | 93.4 | 95.5 | 98.4 | 104.4 | 112.0 | 114.9 | 114.6 | 111.7 |
| 1000 | 91.7 | 93.0 | 93.7 | 95.8 | 94.9 | 95.0 | 96.4 | 100.0 | 104.5 | 112.1 | 115.3 | 114.7 | 112.7 |
| 1250 | 90.8 | 93.3 | 94.3 | 94.6 | 95.2 | 96.6 | 97.9 | 101.9 | 105.6 | 111.6 | 115.6 | 116.5 | 112.8 |
| 1600 | 89.9 | 91.2 | 91.9 | 93.0 | 94.3 | 96.4 | 97.6 | 100.7 | 105.7 | 111.8 | 115.0 | 115.6 | 112.4 |
| 2000 | 90.7 | 91.7 | 93.5 | 93.0 | 95.1 | 95.7 | 98.6 | 102.0 | 105.2 | 110.3 | 113.8 | 113.7 | 110.5 |
| 2500 | 89.8 | 90.8 | 92.8 | 94.1 | 95.5 | 96.6 | 98.5 | 102.6 | 106.1 | 108.9 | 112.1 | 111.8 | 108.6 |
| 3150 | 90.0 | 91.8 | 93.3 | 93.6 | 95.4 | 96.3 | 98.4 | 102.6 | 106.3 | 108.6 | 111.0 | 110.5 | 107.0 |
| 4000 | 89.0 | 90.8 | 92.8 | 93.1 | 94.2 | 96.1 | 98.7 | 102.1 | 105.8 | 107.9 | 110.4 | 108.0 | 104.3 |
| 5000 | 88.9 | 90.9 | 92.5 | 93.6 | 94.6 | 96.2 | 98.3 | 102.5 | 105.5 | 107.1 | 109.8 | 106.9 | 103.7 |
| 6300 | 88.9 | 92.5 | 92.5 | 93.6 | 94.9 | 97.0 | 98.9 | 102.1 | 104.8 | 107.2 | 108.8 | 106.2 | 104.8 |
| 8000 | 89.2 | 93.6 | 93.1 | 93.9 | 95.4 | 96.8 | 98.9 | 101.9 | 104.4 | 107.0 | 107.9 | 105.5 | 104.8 |
| 10000 | 88.6 | 95.7 | 94.6 | 94.3 | 96.1 | 95.5 | 97.9 | 101.3 | 104.1 | 105.7 | 107.4 | 104.7 | 104.7 |
| 12500 | 87.8 | 94.2 | 95.1 | 94.3 | 95.1 | 95.5 | 97.0 | 99.6 | 101.6 | 103.5 | 105.2 | 103.8 | 103.7 |
| 16000 | 85.5 | 93.0 | 93.7 | 94.4 | 95.7 | 94.5 | 95.5 | 98.2 | 101.5 | 102.5 | 103.8 | 101.4 | 102.8 |
| 20000 | 82.2 | 89.5 | 90.9 | 92.0 | 95.0 | 93.6 | 93.9 | 95.8 | 99.4 | 98.4 | 99.6 | 98.5 | 99.6 |
| 25000 | 79.3 | 87.0 | 87.4 | 89.2 | 91.2 | 90.9 | 91.2 | 92.3 | 95.9 | 95.1 | 97.4 | 94.4 | 95.0 |
| 31500 | 76.5 | 84.3 | 85.9 | 87.1 | 90.2 | 88.6 | 88.9 | 90.9 | 93.5 | 92.8 | 94.8 | 93.1 | 93.9 |
| 40000 | 71.1 | 78.6 | 81.9 | 83.5 | 84.1 | 83.8 | 84.1 | 87.1 | 89.2 | 89.8 | 92.9 | 89.0 | 88.3 |
| 50000 | 65.3 | 71.9 | 75.8 | 76.9 | 76.2 | 76.8 | 77.0 | 80.7 | 82.1 | 83.3 | 87.2 | 82.2 | 82.1 |
| 63000 | 59.6 | 64.7 | 69.5 | 69.5 | 68.6 | 69.7 | 68.9 | 72.9 | 74.6 | 77.3 | 80.2 | 75.7 | 76.0 |
| 80000 | 56.2 | 59.4 | 65.4 | 62.9 | 61.8 | 63.7 | 62.8 | 66.2 | 69.2 | 72.1 | 75.5 | 70.1 | 72.2 |
| OVERALL MEASURED | | | | | | | | | | | | | |
| OVERALL CALCULATED 101.3 104.6 105.4 105.9 107.3 108.1 109.9 113.3 116.9 121.4 124.5 124.4 121.8 | | | | | | | | | | | | | |
| PNDB 113.6 115.8 117.0 117.5 119.1 120.1 122.2 125.8 129.4 132.9 136.0 135.3 132.7 | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 316 ACUUSTIC RANGE 12.2m(40ft.) ARC

SIZE

MODEL-71.3cm²(11.1in²)

| NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 85.6 | 89.1 | 88.1 | 90.4 | 92.3 | 93.1 | 94.3 | 97.4 | 100.9 | 106.2 | 111.4 | 113.3 | 112.6 | 160.9 | 158.5 |
| 63 | 87.9 | 89.2 | 91.2 | 91.2 | 93.3 | 94.2 | 95.8 | 99.2 | 103.4 | 110.0 | 114.4 | 115.1 | 114.2 | 162.6 | 160.9 |
| 80 | 89.0 | 89.7 | 91.2 | 92.0 | 93.4 | 95.7 | 97.1 | 100.8 | 105.0 | 112.6 | 116.3 | 116.9 | 114.2 | 164.3 | 164.3 |
| 100 | 89.8 | 91.8 | 92.3 | 93.6 | 95.2 | 96.6 | 98.7 | 102.4 | 107.6 | 114.7 | 118.1 | 118.3 | 115.3 | 166.2 | 166.2 |
| 125 | 92.3 | 93.4 | 93.9 | 95.4 | 97.2 | 98.6 | 100.7 | 103.6 | 109.6 | 117.2 | 120.1 | 119.8 | 116.9 | 166.6 | 166.6 |
| 160 | 96.9 | 98.2 | 98.9 | 99.0 | 100.1 | 100.2 | 101.6 | 105.2 | 109.7 | 117.3 | 120.5 | 119.9 | 117.9 | 167.2 | 167.2 |
| 200 | 96.0 | 98.5 | 99.5 | 99.8 | 100.4 | 101.8 | 103.2 | 107.1 | 110.8 | 116.9 | 120.8 | 121.7 | 118.0 | 166.7 | 166.7 |
| 250 | 95.1 | 96.4 | 97.2 | 98.2 | 99.3 | 101.6 | 102.8 | 105.9 | 110.9 | 117.0 | 120.2 | 120.9 | 117.6 | 165.4 | 165.4 |
| 315 | 95.9 | 96.9 | 98.7 | 98.2 | 100.3 | 100.9 | 103.8 | 107.2 | 110.5 | 115.5 | 119.0 | 118.9 | 115.7 | 164.1 | 164.1 |
| 400 | 95.0 | 96.1 | 98.1 | 99.4 | 100.7 | 101.8 | 103.7 | 107.9 | 111.3 | 114.2 | 117.6 | 117.0 | 115.8 | 163.7 | 163.7 |
| 500 | 95.3 | 97.1 | 98.6 | 98.9 | 100.7 | 101.6 | 103.7 | 107.9 | 111.6 | 113.9 | 116.9 | 115.8 | 112.3 | 162.6 | 162.6 |
| 630 | 94.4 | 96.2 | 98.2 | 98.5 | 99.6 | 101.4 | 104.1 | 107.5 | 111.2 | 113.3 | 115.7 | 113.4 | 109.7 | 161.8 | 161.8 |
| 800 | 94.5 | 96.3 | 97.8 | 98.9 | 99.9 | 101.6 | 103.7 | 107.9 | 110.8 | 112.4 | 115.1 | 112.3 | 109.1 | 161.7 | 161.7 |
| 1000 | 94.4 | 98.0 | 98.0 | 99.0 | 100.4 | 102.5 | 104.4 | 107.5 | 110.3 | 112.6 | 114.3 | 111.7 | 110.2 | 160.2 | 160.2 |
| 1250 | 94.9 | 99.2 | 98.8 | 99.5 | 101.1 | 102.5 | 104.6 | 107.5 | 110.0 | 112.6 | 113.6 | 111.2 | 110.5 | 159.9 | 159.9 |
| 1600 | 94.5 | 101.6 | 100.5 | 100.2 | 102.0 | 101.4 | 103.8 | 107.2 | 110.0 | 111.6 | 113.3 | 110.6 | 110.6 | 158.2 | 158.2 |
| 2000 | 94.0 | 100.5 | 101.4 | 100.6 | 101.8 | 103.3 | 105.9 | 107.9 | 109.8 | 111.5 | 110.1 | 110.0 | 109.7 | 156.3 | 156.3 |
| 2500 | 92.5 | 100.0 | 100.7 | 101.3 | 102.6 | 101.4 | 101.6 | 103.5 | 107.2 | 106.2 | 107.5 | 106.2 | 107.4 | 155.9 | 155.9 |
| 3150 | 90.0 | 97.3 | 98.6 | 99.8 | 102.8 | 101.4 | 101.6 | 101.1 | 104.8 | 103.9 | 106.3 | 103.3 | 103.9 | 153.7 | 153.7 |
| 4000 | 88.2 | 95.9 | 96.3 | 98.1 | 100.1 | 99.8 | 100.1 | 101.1 | 104.8 | 103.6 | 105.6 | 104.0 | 104.7 | 151.1 | 151.1 |
| 5000 | 87.3 | 95.1 | 96.8 | 98.0 | 101.0 | 99.5 | 99.7 | 101.8 | 104.3 | 103.6 | 105.6 | 102.5 | 101.8 | 176.6 | 176.6 |
| 6300 | 84.6 | 92.1 | 95.4 | 97.0 | 97.6 | 97.3 | 97.6 | 100.6 | 102.7 | 103.3 | 106.4 | 102.5 | 101.8 | | |
| 8000 | 82.2 | 88.8 | 92.7 | 93.8 | 93.1 | 93.7 | 93.9 | 97.6 | 99.0 | 100.2 | 104.1 | 99.1 | 99.0 | | |
| 10000 | 81.5 | 86.7 | 91.5 | 91.5 | 90.5 | 91.7 | 90.8 | 94.8 | 96.5 | 99.3 | 102.1 | 97.6 | 97.9 | | |
| 12500 | 85.6 | 88.8 | 94.8 | 92.3 | 91.2 | 93.1 | 92.2 | 95.6 | 98.6 | 101.5 | 104.9 | 99.6 | 101.6 | | |
| 15000 | 85.6 | 88.8 | 94.8 | 92.3 | 91.2 | 93.1 | 92.2 | 95.6 | 98.6 | 101.5 | 104.9 | 99.6 | 101.6 | | |
| 17500 | 85.6 | 88.8 | 94.8 | 92.3 | 91.2 | 93.1 | 92.2 | 95.6 | 98.6 | 101.5 | 104.9 | 99.6 | 101.6 | | |
| 20000 | 85.6 | 88.8 | 94.8 | 92.3 | 91.2 | 93.1 | 92.2 | 95.6 | 98.6 | 101.5 | 104.9 | 99.6 | 101.6 | | |
| OVERALL CALCULATED | 106.9 | 110.5 | 111.5 | 112.0 | 113.5 | 114.0 | 115.7 | 119.0 | 122.5 | 126.8 | 129.8 | 129.6 | 127.0 | | |
| PND | 117.3 | 122.9 | 123.9 | 124.6 | 126.4 | 126.2 | 127.1 | 130.0 | 133.2 | 135.4 | 137.7 | 136.3 | 135.3 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **3/6** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-33m²(513in.²)**

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|------|------|------|------|------|------|------|-------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 57.4 | 62.5 | 65.6 | 67.9 | 68.9 | 69.9 | 72.6 | 75.4 | 79.6 | 83.2 | 82.9 | 82.9 | 78.7 |
| 63 | 59.6 | 62.5 | 65.6 | 67.9 | 68.9 | 69.9 | 72.6 | 75.4 | 79.6 | 83.2 | 82.9 | 82.9 | 78.7 |
| 80 | 60.6 | 63.0 | 65.6 | 67.1 | 68.9 | 71.4 | 72.6 | 75.9 | 79.4 | 85.8 | 87.9 | 86.3 | 80.0 |
| 100 | 61.4 | 65.0 | 66.6 | 68.7 | 70.7 | 72.6 | 74.2 | 77.4 | 81.9 | 87.5 | 89.7 | 87.5 | 80.9 |
| 125 | 63.8 | 66.4 | 68.1 | 70.3 | 72.6 | 74.2 | 76.1 | 78.6 | 83.8 | 90.2 | 91.6 | 88.9 | 82.2 |
| 160 | 68.2 | 71.1 | 73.0 | 73.8 | 75.3 | 75.6 | 76.8 | 80.1 | 83.8 | 90.2 | 91.7 | 88.7 | 83.0 |
| 200 | 67.0 | 71.3 | 73.5 | 74.5 | 75.5 | 77.0 | 78.3 | 81.8 | 84.7 | 89.6 | 91.9 | 90.3 | 82.7 |
| 250 | 65.9 | 68.9 | 70.9 | 72.7 | 74.5 | 76.8 | 77.7 | 80.4 | 84.6 | 89.5 | 91.0 | 89.1 | 81.8 |
| 315 | 66.4 | 69.2 | 72.2 | 72.5 | 75.1 | 75.8 | 78.6 | 81.5 | 83.9 | 87.8 | 89.4 | 86.7 | 79.2 |
| 400 | 65.0 | 67.9 | 71.2 | 73.4 | 75.2 | 76.4 | 78.2 | 81.9 | 84.5 | 86.0 | 87.4 | 84.3 | 76.5 |
| 500 | 64.8 | 68.5 | 71.4 | 72.5 | 74.8 | 75.9 | 77.8 | 81.5 | 84.4 | 85.4 | 86.4 | 82.3 | 74.0 |
| 630 | 63.2 | 67.0 | 70.5 | 71.6 | 73.2 | 75.3 | 77.7 | 80.6 | 83.5 | 84.2 | 84.5 | 79.0 | 70.0 |
| 800 | 62.4 | 66.4 | 69.4 | 71.4 | 73.1 | 74.8 | 76.8 | 80.4 | 82.4 | 82.6 | 83.0 | 76.7 | 67.6 |
| 1000 | 61.2 | 67.2 | 68.8 | 70.9 | 72.8 | 75.1 | 76.8 | 79.4 | 81.1 | 81.9 | 81.1 | 74.8 | 66.7 |
| 1250 | 60.3 | 67.3 | 68.6 | 70.5 | 72.7 | 74.2 | 76.2 | 78.5 | 79.8 | 80.7 | 79.0 | 72.5 | 64.4 |
| 1600 | 58.0 | 68.1 | 68.9 | 69.8 | 72.3 | 71.9 | 74.1 | 76.8 | 78.1 | 78.1 | 76.8 | 69.4 | 60.8 |
| 2000 | 55.2 | 65.1 | 66.1 | 68.7 | 70.3 | 70.9 | 72.2 | 74.0 | 74.6 | 74.6 | 72.7 | 65.8 | 55.8 |
| 2500 | 50.3 | 61.7 | 64.9 | 67.2 | 69.3 | 68.5 | 69.1 | 70.9 | 72.7 | 71.1 | 68.6 | 59.2 | 49.1 |
| 3150 | 42.4 | 54.5 | 58.9 | 62.0 | 66.0 | 65.0 | 64.9 | 65.8 | 67.5 | 63.4 | 60.0 | 50.6 | 36.4 |
| 4000 | 32.5 | 46.5 | 50.7 | 54.9 | 58.2 | 58.3 | 58.2 | 57.9 | 59.2 | 54.5 | 50.6 | 37.3 | 17.4 |
| 5000 | 27.0 | 41.8 | 47.8 | 51.7 | 56.2 | 55.1 | 54.9 | 53.5 | 53.3 | 50.3 | 45.3 | 31.9 | 9.3 |
| 6300 | 10.5 | 27.3 | 36.3 | 41.4 | 43.9 | 44.3 | 43.9 | 43.0 | 43.6 | 38.5 | 32.3 | 12.5 | |
| 8000 | | 6.4 | 18.2 | 24.0 | 26.0 | 27.4 | 26.8 | 27.8 | 24.5 | 17.8 | 8.9 | | |
| 10000 | | | | 2.0 | 4.6 | 6.9 | 4.9 | 5.3 | 0.5 | | | | |
| 12500 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 76.0 | 80.0 | 82.3 | 83.7 | 85.6 | 86.9 | 88.7 | 91.7 | 94.7 | 98.7 | 100.2 | 97.8 | 91.1 |
| PWDB | 80.3 | 87.4 | 89.9 | 91.5 | 93.7 | 94.2 | 95.6 | 98.3 | 100.6 | 102.9 | 103.7 | 100.5 | 92.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/L ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 24 HR. 10.7

| RDG. NO. | NO EGA | RADIAL (12. M) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | O. (0.) | P.M.L | | |
|--------------------|--------|----------------|--------------|--------|-----|------|-----|------|-----|-------|---|------|------|------|------|------|-------|-------|-------|-------|---------|-------|-------|-----|
| | | | | | | | | | | | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | | | 150 | 160 |
| 50 | 0 | 100 | CELL41 | | | | | | | 75.9 | 85.4 | 83.9 | 84.7 | 86.0 | 86.7 | 86.8 | 88.2 | 88.4 | 90.7 | 94.7 | 93.9 | 95.7 | 131.6 | |
| 63 | 0 | 125 | CELL41 | | | | | | | 75.6 | 79.6 | 82.1 | 83.9 | 85.5 | 86.1 | 86.7 | 88.4 | 87.1 | 86.7 | 95.9 | 96.8 | 96.6 | 131.9 | |
| 160 | 0 | 200 | CELL41 | | | | | | | 76.4 | 79.2 | 82.2 | 82.2 | 83.0 | 83.2 | 83.8 | 86.2 | 88.2 | 93.5 | 97.9 | 98.4 | 99.9 | 133.7 | |
| 250 | 0 | 315 | ANECH CH | | | | | | | 79.0 | 81.5 | 83.8 | 84.4 | 85.0 | 85.9 | 88.8 | 91.3 | 95.9 | 100.3 | 103.8 | 104.0 | 137.3 | | |
| 400 | 0 | 500 | CONF3LOWFLWC | | | | | | | 80.9 | 84.4 | 83.7 | 85.7 | 87.8 | 88.9 | 89.6 | 92.5 | 95.7 | 101.5 | 107.0 | 107.9 | 142.6 | | |
| 630 | 0 | 800 | X03170 | | | | | | | 84.0 | 84.5 | 86.3 | 87.1 | 88.7 | 90.5 | 92.2 | 95.6 | 99.8 | 106.9 | 112.1 | 113.0 | 146.7 | | |
| 1000 | 0 | 1250 | | | | | | | | 87.9 | 88.2 | 89.2 | 90.2 | 92.3 | 93.2 | 95.8 | 98.9 | 101.6 | 108.7 | 113.9 | 113.8 | 146.1 | | |
| 1600 | 0 | 2000 | | | | | | | | 92.7 | 93.0 | 94.2 | 93.8 | 95.1 | 95.0 | 96.9 | 100.0 | 104.0 | 110.6 | 116.0 | 115.2 | 150.0 | | |
| 2500 | 0 | 3150 | | | | | | | | 90.5 | 92.8 | 94.1 | 94.1 | 95.2 | 97.1 | 97.2 | 101.6 | 105.1 | 110.1 | 115.4 | 116.5 | 150.5 | | |
| 4000 | 0 | 5000 | | | | | | | | 89.4 | 91.2 | 92.2 | 92.2 | 93.8 | 96.4 | 97.8 | 100.7 | 105.7 | 108.8 | 114.5 | 115.1 | 149.3 | | |
| 6300 | 0 | 8000 | | | | | | | | 89.5 | 90.8 | 92.3 | 93.6 | 95.0 | 96.1 | 98.7 | 102.9 | 105.8 | 106.4 | 111.4 | 112.8 | 147.1 | | |
| 12500 | 0 | 16000 | | | | | | | | 89.5 | 91.3 | 93.3 | 93.6 | 94.9 | 96.5 | 98.4 | 102.6 | 106.1 | 107.4 | 111.1 | 111.0 | 146.7 | | |
| 20000 | 0 | 25000 | | | | | | | | 88.5 | 91.1 | 92.3 | 92.4 | 93.9 | 96.1 | 97.9 | 102.1 | 105.1 | 106.9 | 110.4 | 109.0 | 145.7 | | |
| 31500 | 0 | 40000 | | | | | | | | 88.6 | 91.2 | 91.7 | 93.2 | 94.8 | 96.7 | 98.3 | 102.0 | 105.2 | 106.1 | 109.8 | 107.9 | 145.3 | | |
| 40000 | 0 | 50000 | | | | | | | | 88.4 | 92.0 | 92.3 | 93.1 | 95.1 | 96.8 | 98.6 | 102.3 | 105.0 | 105.9 | 109.6 | 108.2 | 145.5 | | |
| 63000 | 0 | 80000 | | | | | | | | 87.6 | 92.3 | 92.1 | 93.1 | 94.9 | 96.3 | 98.9 | 101.5 | 104.1 | 106.0 | 107.9 | 108.0 | 145.1 | | |
| OVERALL MEASURED | | | | | | | | | | 85.8 | 92.5 | 93.4 | 93.6 | 94.6 | 95.0 | 96.5 | 99.3 | 102.1 | 102.8 | 105.7 | 106.0 | 143.6 | | |
| OVERALL CALCULATED | | | | | | | | | | 84.0 | 90.8 | 91.5 | 93.7 | 94.7 | 96.0 | 98.9 | 101.2 | 101.0 | 103.3 | 104.6 | 101.8 | 143.2 | | |
| PWB8 | | | | | | | | | | 81.2 | 87.3 | 89.4 | 90.8 | 94.0 | 93.4 | 94.1 | 99.2 | 97.7 | 99.6 | 101.7 | 98.9 | 141.5 | | |
| | | | | | | | | | | 77.8 | 84.8 | 86.4 | 87.7 | 90.2 | 89.9 | 90.9 | 92.5 | 96.4 | 95.1 | 97.9 | 97.2 | 139.9 | | |
| | | | | | | | | | | 75.2 | 82.3 | 84.7 | 86.4 | 88.4 | 87.6 | 88.4 | 90.7 | 93.7 | 92.0 | 95.3 | 96.1 | 139.8 | | |
| | | | | | | | | | | 70.3 | 77.1 | 80.9 | 82.0 | 83.1 | 83.6 | 87.4 | 89.2 | 88.3 | 91.4 | 91.4 | 91.7 | 138.9 | | |
| | | | | | | | | | | 64.5 | 70.1 | 74.5 | 75.4 | 75.2 | 76.3 | 76.3 | 80.2 | 82.1 | 82.3 | 86.4 | 84.9 | 136.7 | | |
| | | | | | | | | | | 59.1 | 63.0 | 68.5 | 67.8 | 67.8 | 68.5 | 68.6 | 72.9 | 75.8 | 77.1 | 80.7 | 76.7 | 136.5 | | |
| | | | | | | | | | | 55.7 | 58.9 | 64.9 | 62.4 | 61.6 | 62.5 | 62.6 | 66.2 | 69.4 | 72.3 | 75.0 | 68.6 | 140.2 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **317** ACCUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-7L.3cm²(11.1in²)**

| NO EGA | PROC. DATE - MONTH 8 DAY 24 HR. 12.1 | | | | | | | | | | | | | | | |
|--------------------|---|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|
| | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | |
| RDG. NO. O. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | O. | O. | PUL |
| 50 | 86.1 | 89.6 | 88.9 | 90.9 | 91.40 | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (3.0) | (3.18) | 159.5 |
| 63 | 88.1 | 89.7 | 91.4 | 91.2 | 93.3 | 94.4 | 94.8 | 97.4 | 100.9 | 106.7 | 112.1 | 114.3 | 113.1 | | | 161.1 |
| 80 | 89.2 | 89.7 | 91.5 | 92.3 | 93.9 | 95.7 | 97.4 | 100.8 | 105.0 | 112.1 | 117.3 | 118.2 | 114.7 | | | 163.3 |
| RADIAL 150. FT. | 100 | 90.1 | 92.1 | 92.8 | 94.1 | 95.5 | 97.1 | 99.5 | 102.1 | 106.8 | 113.9 | 119.0 | 116.1 | | | 164.8 |
| (66. M) | 125 | 93.1 | 93.4 | 94.6 | 95.4 | 97.5 | 98.4 | 101.0 | 104.1 | 108.6 | 115.7 | 120.6 | 120.3 | | | 166.3 |
| VEHICLE CELL41 | 160 | 97.9 | 98.2 | 99.4 | 98.0 | 100.3 | 100.2 | 102.1 | 105.2 | 109.2 | 115.8 | 121.2 | 120.4 | | | 166.7 |
| CONFIG NCA1 | 200 | 95.7 | 98.0 | 99.3 | 100.4 | 102.3 | 102.4 | 106.8 | 110.3 | 115.4 | 120.6 | 121.7 | 118.0 | | | 166.9 |
| LOC C41 AMECH CN | 250 | 94.6 | 96.4 | 97.4 | 97.4 | 99.0 | 101.6 | 103.0 | 105.9 | 110.9 | 114.0 | 119.7 | 120.4 | | | 166.0 |
| DATE 06-01-76 | 315 | 95.7 | 97.2 | 98.2 | 98.5 | 99.6 | 101.2 | 103.6 | 107.0 | 111.0 | 113.3 | 116.5 | 119.2 | | | 164.9 |
| RUN CONFLOWFLWC | 400 | 94.8 | 96.1 | 97.6 | 98.9 | 100.2 | 101.3 | 104.0 | 106.1 | 111.1 | 111.7 | 116.6 | 118.0 | | | 163.8 |
| TAPE X03170 | 500 | 94.8 | 96.6 | 98.6 | 98.9 | 100.2 | 101.8 | 103.7 | 107.9 | 111.4 | 112.7 | 116.4 | 116.3 | | | 163.6 |
| BAR 29.3 HG | 630 | 93.9 | 96.4 | 97.7 | 97.9 | 99.3 | 101.4 | 103.3 | 107.5 | 110.4 | 112.3 | 115.7 | 114.4 | | | 162.6 |
| (98975. N/R2) | 800 | 95.0 | 96.6 | 97.1 | 98.6 | 100.2 | 102.1 | 103.7 | 107.4 | 110.6 | 111.4 | 115.1 | 113.3 | | | 161.9 |
| TAMB 66. DEG F | 1000 | 93.9 | 97.5 | 97.8 | 98.5 | 100.6 | 102.2 | 104.1 | 107.8 | 110.5 | 111.4 | 115.1 | 113.7 | | | 162.1 |
| (291. DEG K) | 1250 | 93.9 | 98.0 | 97.8 | 98.8 | 100.6 | 102.0 | 104.6 | 107.5 | 109.8 | 111.6 | 113.6 | 113.7 | | | 161.7 |
| TMET 62. DEG F | 1600 | 93.5 | 99.6 | 99.2 | 99.7 | 101.3 | 101.4 | 103.8 | 107.5 | 109.5 | 110.9 | 112.5 | 113.4 | | | 161.3 |
| (290. DEG K) | 2000 | 92.0 | 98.8 | 99.7 | 100.1 | 100.9 | 101.3 | 102.8 | 105.6 | 108.4 | 109.1 | 111.0 | 112.3 | | | 160.2 |
| MACT13.59 GH/M3 | 2500 | 91.8 | 97.7 | 98.4 | 100.6 | 101.6 | 101.2 | 102.9 | 105.8 | 108.2 | 107.9 | 110.3 | 111.5 | | | 159.9 |
| (.07359 KG/M3) | 3150 | 89.0 | 95.0 | 97.1 | 98.5 | 101.8 | 101.1 | 101.9 | 103.8 | 106.9 | 105.4 | 107.3 | 109.5 | | | 158.2 |
| FREQ. SHIFT | 4000 | 86.7 | 93.7 | 95.3 | 96.6 | 99.1 | 98.8 | 99.8 | 101.4 | 105.3 | 103.9 | 106.8 | 106.1 | | | 156.6 |
| JET | 5000 | 86.1 | 93.1 | 95.5 | 97.3 | 99.3 | 98.5 | 99.2 | 101.5 | 104.6 | 102.9 | 106.1 | 107.0 | | | 156.5 |
| DIAMETER RATIO | 6300 | 83.8 | 90.6 | 94.4 | 95.5 | 96.6 | 97.1 | 100.9 | 102.7 | 101.8 | 104.9 | 105.2 | 101.8 | | | 153.6 |
| DF/DH 6.81 | 8000 | 81.4 | 87.0 | 91.6 | 92.3 | 92.1 | 93.2 | 93.2 | 97.1 | 99.0 | 99.2 | 103.3 | 101.8 | | | 153.2 |
| | 10000 | 81.0 | 84.9 | 90.5 | 89.7 | 89.7 | 90.4 | 90.5 | 94.8 | 97.8 | 99.0 | 102.6 | 98.6 | | | 97.4 |
| | 12500 | 85.1 | 88.3 | 94.3 | 91.8 | 91.0 | 91.9 | 92.0 | 95.6 | 98.9 | 101.7 | 104.4 | 98.1 | | | 101.1 |
| OVERALL CALCULATED | 106.5 | 109.6 | 110.7 | 111.4 | 113.0 | 113.9 | 115.6 | 119.0 | 122.3 | 125.3 | 129.9 | 130.2 | 127.0 | | | 156.8 |
| PNDB | 116.4 | 121.4 | 122.6 | 123.9 | 125.7 | 125.9 | 127.2 | 130.3 | 133.1 | 134.1 | 137.5 | 138.0 | 134.9 | | | 176.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION ³ TEST POINT ₃₁₇ ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m(513in.)² SIZE

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | 70 PERCENT REL. HUM. DAY | | | | | | | | | |
|--|-------|---|------|------|------|------|------|--------------------------|------|-------|-------|-------|-------|------|----|----|----|
| | | 40. | 50. | 60. | 70. | 80. | 90. | | | | | | | | | | |
| | 50 | 57.9 | 63.4 | 66.1 | 68.6 | 69.9 | 70.4 | 72.9 | 75.4 | 80.1 | 84.0 | 83.9 | 79.2 | 160. | 0. | 0. | 0. |
| | 63 | 59.9 | 63.0 | 65.8 | 68.4 | 68.9 | 70.1 | 71.6 | 74.6 | 82.6 | 86.7 | 85.3 | 79.6 | 150. | 0. | 0. | 0. |
| | 80 | 60.9 | 63.0 | 65.9 | 67.4 | 69.4 | 71.4 | 72.9 | 75.9 | 79.4 | 83.3 | 88.9 | 87.6 | 140. | 0. | 0. | 0. |
| | 100 | 61.6 | 65.3 | 67.1 | 69.2 | 70.9 | 72.7 | 74.9 | 77.2 | 81.1 | 87.1 | 90.7 | 88.3 | 130. | 0. | 0. | 0. |
| NFA (1. RPM) | 125 | 64.5 | 66.4 | 68.6 | 70.3 | 72.9 | 73.9 | 76.4 | 79.1 | 82.8 | 88.7 | 92.1 | 89.4 | 120. | 0. | 0. | 0. |
| | 160 | 69.2 | 71.1 | 73.5 | 73.8 | 75.6 | 77.5 | 80.1 | 83.3 | 88.7 | 92.5 | 89.2 | 83.0 | 110. | 0. | 0. | 0. |
| NFK (1. RPM) | 200 | 66.8 | 70.8 | 73.2 | 74.0 | 75.5 | 77.5 | 81.5 | 84.2 | 88.1 | 91.6 | 90.3 | 82.7 | 100. | 0. | 0. | 0. |
| | 250 | 65.4 | 68.9 | 71.1 | 71.9 | 74.0 | 76.8 | 80.4 | 84.6 | 86.5 | 90.5 | 88.6 | 81.8 | 90. | 0. | 0. | 0. |
| MFD (0. RAD/SEC) | 315 | 66.1 | 69.4 | 71.7 | 72.8 | 74.3 | 76.1 | 78.3 | 81.3 | 84.4 | 85.5 | 88.9 | 86.9 | 80.5 | 0. | 0. | 0. |
| | 400 | 64.8 | 67.9 | 70.7 | 72.9 | 74.7 | 75.9 | 78.4 | 82.1 | 84.2 | 83.5 | 86.6 | 85.3 | 76.0 | 0. | 0. | 0. |
| AIRELOW RATIO | 500 | 64.3 | 68.0 | 71.4 | 72.5 | 74.3 | 76.1 | 77.8 | 81.5 | 84.1 | 85.9 | 82.8 | 74.0 | 0. | 0. | 0. | 0. |
| W/F/MH 6.81 | 630 | 62.7 | 67.3 | 70.0 | 70.9 | 73.0 | 75.3 | 77.0 | 80.6 | 82.7 | 83.2 | 84.5 | 80.0 | 69.2 | 0. | 0. | 0. |
| | 800 | 61.9 | 66.7 | 68.7 | 71.2 | 73.3 | 75.3 | 76.8 | 79.9 | 82.2 | 81.6 | 83.0 | 77.7 | 67.6 | 0. | 0. | 0. |
| VEHICLE CELL41 | 1000 | 60.7 | 66.7 | 68.6 | 70.4 | 73.0 | 74.8 | 76.5 | 79.6 | 81.3 | 80.6 | 81.9 | 76.8 | 66.2 | 0. | 0. | 0. |
| CONFIG MC41 | 1250 | 59.3 | 66.0 | 67.6 | 69.7 | 72.2 | 73.7 | 76.2 | 78.5 | 79.6 | 79.7 | 79.0 | 75.0 | 64.1 | 0. | 0. | 0. |
| LOC. C41 ANECH CH | 1600 | 57.0 | 66.1 | 67.6 | 69.3 | 71.6 | 71.9 | 74.1 | 77.1 | 77.9 | 77.3 | 76.0 | 72.2 | 60.3 | 0. | 0. | 0. |
| DATE 06-01-76 | 2000 | 53.2 | 63.3 | 66.4 | 68.2 | 69.3 | 70.4 | 71.7 | 73.7 | 75.1 | 73.6 | 72.2 | 68.1 | 53.3 | 0. | 0. | 0. |
| RUN CONFLOWFLWC | 2500 | 48.8 | 59.5 | 62.7 | 66.4 | 66.3 | 68.2 | 69.6 | 71.7 | 72.4 | 69.6 | 68.1 | 63.0 | 48.1 | 0. | 0. | 0. |
| TAPE X03170 | 3150 | 41.4 | 52.3 | 57.4 | 60.7 | 65.0 | 64.7 | 65.4 | 67.2 | 67.2 | 62.7 | 59.8 | 53.9 | 35.6 | 0. | 0. | 0. |
| FAM TIP SPEED | 4000 | 31.0 | 44.2 | 49.7 | 53.4 | 57.2 | 57.3 | 57.9 | 58.2 | 59.7 | 54.5 | 51.1 | 40.0 | 17.7 | 0. | 0. | 0. |
| FT/SEC | 5000 | 25.8 | 39.8 | 46.5 | 50.9 | 54.4 | 54.1 | 54.4 | 55.2 | 55.6 | 49.5 | 43.8 | 34.9 | 8.0 | 0. | 0. | 0. |
| | 6300 | 9.8 | 25.8 | 35.3 | 39.9 | 42.9 | 43.5 | 43.4 | 45.3 | 45.3 | 37.0 | 30.8 | 15.3 | 0. | 0. | 0. | 0. |
| | 8000 | 4.7 | 16.9 | 22.5 | 25.0 | 26.9 | 26.1 | 27.3 | 26.5 | 26.5 | 16.8 | 8.1 | 0. | 0. | 0. | 0. | 0. |
| | 10000 | 0.2 | 3.8 | 5.7 | 6.6 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 5.7 | 5.3 | 0. | 0. | 0. | 0. | 0. |
| | 12500 | 0.1 | 3.1 | 4.8 | 5.4 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 4.6 | 4.6 | 0. | 0. | 0. | 0. | 0. |
| OVERALL CALCULATED | | 76.0 | 79.7 | 82.1 | 83.4 | 85.4 | 87.0 | 88.6 | 91.7 | 94.4 | 97.2 | 100.4 | 98.2 | 91.2 | 0. | 0. | 0. |
| PNDB | | 79.9 | 86.2 | 88.9 | 90.9 | 93.1 | 93.9 | 95.6 | 98.4 | 100.4 | 101.3 | 103.6 | 101.1 | 92.7 | 0. | 0. | 0. |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **317** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-33m(513ft.)** SIZE

-PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 24 HR. 10.7

| RDG. NO. | VEHICLE CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TUET | HACT | FREQ. | PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | |
|----------|--------------------|-----|------|-----|------|-----|------|------|------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | NO EGA | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 63 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 80 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 100 | 40. FT. | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 125 | (12. M) | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 160 | CELL 41 | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 200 | NC41 | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 250 | C41 ANECH CH | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 315 | 06-01-76 | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 400 | CONFLOWFLWC | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 500 | X03180 | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 630 | 29.3 HG | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 800 | (98975. H/M2) | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 1000 | 64. DEG F | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 1250 | (291. DEG K) | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 1600 | 62. DEG K | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 2000 | (290. DEG K) | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 2500 | HACT13.59 GH/M3 | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 3150 | (.01359 KG/M3) | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 4000 | SHIFT | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 5000 | JET | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 6300 | DIAMETER RATIO | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 8000 | DF/DM 1 | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 10000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 12500 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 16000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 20000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 25000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 31500 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 40000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 50000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 63000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| 80000 | | | | | | | | | | | 80.7 | 85.9 | 83.7 | 84.7 | 86.3 | 87.2 | 86.8 | 88.5 | 88.7 | 91.0 | 95.2 | 93.9 | 96.4 |
| | OVERALL MEASURED | | | | | | | | | | 100.7 | 103.7 | 104.6 | 105.1 | 106.7 | 107.7 | 109.5 | 113.0 | 116.1 | 120.2 | 123.8 | 123.8 | 121.5 |
| | OVERALL CALCULATED | | | | | | | | | | 113.1 | 115.4 | 116.6 | 116.9 | 118.8 | 120.0 | 121.9 | 125.5 | 128.6 | 131.8 | 134.9 | 134.8 | 132.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 318 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 12.1
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENDITS)

| ADG. NO. | NO EGA | RADIAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | PUL |
|----------|--------|-----------------|---------|--------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-----|------|------|------|------|-----|
| | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | |
| 50 | 86.1 | 89.4 | 88.9 | 90.9 | 93.0 | 93.6 | 95.0 | 97.7 | 101.1 | 106.9 | 111.2 | 113.8 | 113.1 | 158.9 | | | | | | |
| 63 | 88.4 | 89.9 | 91.2 | 91.7 | 93.5 | 94.6 | 96.0 | 99.4 | 103.7 | 110.2 | 114.9 | 115.4 | 114.4 | 161.2 | | | | | | |
| 80 | 89.0 | 89.7 | 91.7 | 92.3 | 93.9 | 96.0 | 97.4 | 100.5 | 105.0 | 113.3 | 117.0 | 117.7 | 115.0 | 163.3 | | | | | | |
| 100 | 90.3 | 92.3 | 92.3 | 93.4 | 95.7 | 96.8 | 99.0 | 102.1 | 107.1 | 114.7 | 118.4 | 118.8 | 116.1 | 164.6 | | | | | | |
| 125 | 93.1 | 93.4 | 94.1 | 95.6 | 97.2 | 98.1 | 100.5 | 103.9 | 108.4 | 116.2 | 120.6 | 120.3 | 117.9 | 166.4 | | | | | | |
| 160 | 96.9 | 97.7 | 98.2 | 98.2 | 99.6 | 99.4 | 101.8 | 105.2 | 108.7 | 116.0 | 120.2 | 119.1 | 117.7 | 168.0 | | | | | | |
| 200 | 95.5 | 97.0 | 98.5 | 98.6 | 99.4 | 101.5 | 102.4 | 106.1 | 109.3 | 115.1 | 119.3 | 119.7 | 116.8 | 165.6 | | | | | | |
| 250 | 94.9 | 96.6 | 96.7 | 97.7 | 99.3 | 100.9 | 102.5 | 105.4 | 109.9 | 114.2 | 117.9 | 118.6 | 115.9 | 164.6 | | | | | | |
| 315 | 95.4 | 96.7 | 98.5 | 98.0 | 99.8 | 100.9 | 103.1 | 106.7 | 110.0 | 113.5 | 117.0 | 117.7 | 113.9 | 163.9 | | | | | | |
| 400 | 94.5 | 95.8 | 97.8 | 98.4 | 100.5 | 100.8 | 103.2 | 107.4 | 110.6 | 112.7 | 115.4 | 116.3 | 112.3 | 162.9 | | | | | | |
| 500 | 94.5 | 96.8 | 98.4 | 98.4 | 100.5 | 101.6 | 103.7 | 107.4 | 110.6 | 112.7 | 115.4 | 116.3 | 112.3 | 162.6 | | | | | | |
| 630 | 93.9 | 96.2 | 97.4 | 97.5 | 99.3 | 100.4 | 102.8 | 107.5 | 109.4 | 112.0 | 114.2 | 113.9 | 109.7 | 161.6 | | | | | | |
| 800 | 93.5 | 96.1 | 97.6 | 98.4 | 99.4 | 101.8 | 103.2 | 107.6 | 109.6 | 111.7 | 114.1 | 112.0 | 109.1 | 161.3 | | | | | | |
| 1000 | 93.2 | 96.7 | 98.0 | 98.0 | 100.6 | 102.0 | 103.9 | 106.8 | 109.8 | 111.6 | 113.8 | 112.0 | 110.0 | 161.3 | | | | | | |
| 1250 | 93.4 | 97.2 | 97.5 | 98.5 | 100.6 | 102.2 | 104.1 | 107.0 | 109.5 | 111.4 | 113.6 | 111.7 | 110.5 | 161.3 | | | | | | |
| 1600 | 93.5 | 99.6 | 99.2 | 99.0 | 100.8 | 101.1 | 103.3 | 107.2 | 109.5 | 110.6 | 112.5 | 111.4 | 110.6 | 160.9 | | | | | | |
| 2000 | 91.3 | 99.0 | 99.4 | 99.9 | 101.0 | 102.8 | 105.4 | 107.7 | 108.8 | 112.0 | 110.1 | 109.8 | 109.0 | 159.9 | | | | | | |
| 2500 | 90.5 | 97.7 | 98.7 | 100.1 | 101.2 | 102.4 | 102.4 | 105.6 | 108.2 | 107.6 | 110.8 | 109.3 | 109.0 | 159.5 | | | | | | |
| 3150 | 88.2 | 95.3 | 96.6 | 98.6 | 98.3 | 99.1 | 101.1 | 105.3 | 104.2 | 107.5 | 104.1 | 103.1 | 103.1 | 157.8 | | | | | | |
| 4000 | 86.9 | 93.9 | 95.0 | 96.6 | 98.6 | 98.3 | 99.0 | 101.8 | 104.3 | 102.4 | 106.9 | 105.0 | 103.5 | 156.6 | | | | | | |
| 5000 | 85.8 | 93.6 | 96.0 | 97.5 | 98.3 | 98.5 | 97.1 | 100.6 | 102.7 | 102.3 | 106.1 | 102.7 | 100.8 | 155.3 | | | | | | |
| 6300 | 83.3 | 90.8 | 94.7 | 95.7 | 96.3 | 96.1 | 97.1 | 100.6 | 102.7 | 102.3 | 106.1 | 102.7 | 100.8 | 153.3 | | | | | | |
| 8000 | 81.4 | 86.8 | 91.9 | 92.3 | 91.6 | 93.2 | 92.7 | 96.8 | 99.2 | 98.9 | 104.1 | 100.1 | 97.0 | 153.3 | | | | | | |
| 10000 | 80.8 | 85.2 | 90.7 | 89.7 | 90.4 | 90.5 | 94.5 | 97.5 | 98.5 | 103.6 | 97.9 | 94.7 | 94.7 | 153.0 | | | | | | |
| 12500 | 85.1 | 88.0 | 94.3 | 91.8 | 90.7 | 91.9 | 91.5 | 95.3 | 98.9 | 101.7 | 105.6 | 99.1 | 95.6 | 157.0 | | | | | | |
| 15000 | 85.1 | 88.0 | 94.3 | 91.8 | 90.7 | 91.9 | 91.5 | 95.3 | 98.9 | 101.7 | 105.6 | 99.1 | 95.6 | 157.0 | | | | | | |
| 176.0 | 106.2 | 109.4 | 110.6 | 111.1 | 112.6 | 113.5 | 113.3 | 118.7 | 121.8 | 123.6 | 129.2 | 129.0 | 126.6 | 176.0 | | | | | | |
| PRBB | 116.0 | 121.4 | 122.6 | 123.6 | 125.1 | 125.5 | 126.9 | 130.0 | 132.8 | 134.2 | 137.4 | 136.2 | 134.7 | 176.0 | | | | | | |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/8 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - .33m²(513in.²)

NO EGA SIDELINE 2400. FT. (731.52 M)
 NFA (1. RPM)
 NFK (0. RAD/SEC)
 NFD (7500. RPM)
 AIRFLOW RATIO
 WF/WM 0.81

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 60 | 50 | 40 | 30 | 20 | 10 | | | | | | | | | | |
| 50 | 57.9 | 62.8 | 63.4 | 66.1 | 68.6 | 69.4 | 70.6 | 72.9 | 75.6 | 80.3 | 83.2 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 |
| 63 | 60.1 | 63.2 | 65.6 | 66.9 | 69.1 | 70.1 | 71.6 | 74.6 | 78.1 | 83.6 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 |
| 80 | 60.6 | 63.0 | 66.1 | 67.4 | 69.4 | 71.6 | 72.9 | 75.6 | 79.4 | 86.6 | 88.7 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 |
| 100 | 61.9 | 65.5 | 66.6 | 68.4 | 71.2 | 72.4 | 74.4 | 77.2 | 81.4 | 87.8 | 89.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 |
| 125 | 64.5 | 68.4 | 68.3 | 70.6 | 72.6 | 73.6 | 75.9 | 78.8 | 82.6 | 89.2 | 92.1 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 |
| 160 | 68.2 | 70.6 | 72.3 | 73.1 | 74.8 | 74.8 | 77.1 | 80.1 | 82.8 | 88.9 | 91.5 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 |
| 200 | 60.5 | 69.8 | 72.5 | 73.3 | 74.5 | 74.8 | 77.5 | 79.9 | 83.6 | 86.8 | 88.7 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 |
| 250 | 65.6 | 69.2 | 70.4 | 72.2 | 74.2 | 76.0 | 77.5 | 79.9 | 83.6 | 86.8 | 88.7 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 |
| 315 | 65.9 | 68.9 | 71.9 | 72.3 | 74.6 | 75.8 | 77.8 | 81.0 | 83.4 | 85.8 | 87.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 |
| 400 | 64.5 | 67.7 | 71.0 | 72.4 | 74.9 | 75.4 | 77.7 | 81.4 | 83.7 | 84.5 | 85.4 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 |
| 500 | 64.0 | 68.3 | 71.1 | 72.0 | 74.6 | 75.9 | 77.8 | 81.0 | 83.4 | 84.1 | 84.9 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 |
| 630 | 62.7 | 67.0 | 69.7 | 70.6 | 73.0 | 74.3 | 76.5 | 80.6 | 81.7 | 82.9 | 83.0 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 |
| 800 | 61.4 | 66.2 | 69.2 | 70.9 | 72.6 | 75.1 | 76.3 | 79.9 | 81.2 | 81.8 | 82.0 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 |
| 1000 | 60.0 | 66.0 | 68.8 | 69.9 | 73.0 | 74.6 | 76.3 | 78.6 | 80.6 | 80.9 | 80.6 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| 1250 | 58.8 | 65.3 | 67.3 | 69.5 | 72.2 | 74.0 | 75.7 | 78.0 | 79.3 | 79.3 | 79.3 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 |
| 1600 | 57.0 | 66.1 | 67.6 | 68.6 | 71.1 | 71.7 | 73.6 | 76.8 | 77.9 | 77.1 | 76.0 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2 |
| 2000 | 52.5 | 63.6 | 66.1 | 68.0 | 68.8 | 70.1 | 71.7 | 73.5 | 74.4 | 73.4 | 73.2 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 |
| 2500 | 48.3 | 59.5 | 62.9 | 65.9 | 67.8 | 68.2 | 69.1 | 71.4 | 72.4 | 69.4 | 68.6 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 |
| 3150 | 40.7 | 52.5 | 56.9 | 60.2 | 64.0 | 64.2 | 65.1 | 65.8 | 67.2 | 63.4 | 60.3 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 |
| 4000 | 31.3 | 44.5 | 49.4 | 53.4 | 56.7 | 56.8 | 57.2 | 57.9 | 59.7 | 54.7 | 51.9 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 |
| 5000 | 25.5 | 40.3 | 47.0 | 51.2 | 53.4 | 54.1 | 54.1 | 54.1 | 55.3 | 49.0 | 46.6 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 |
| 6300 | 9.3 | 26.0 | 35.6 | 40.2 | 42.7 | 43.0 | 43.4 | 43.4 | 43.6 | 37.5 | 32.1 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| 8000 | | 4.4 | 17.4 | 22.5 | 24.5 | 26.9 | 25.6 | 27.1 | 26.7 | 16.6 | 8.9 | | | | | |
| 10000 | | | | 0.2 | 3.8 | 5.7 | 4.6 | 5.1 | 1.5 | | | | | | | |

OVERALL CALCULATED 75.7 79.4 81.8 83.1 85.2 86.6 88.3 91.3 93.8 97.5 99.6 97.2 90.9
 PMDB 79.6 86.1 88.7 90.5 92.7 93.7 95.2 98.1 99.9 101.4 102.8 99.5 92.0

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/8 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE 2 FULL-.33m²(513in.²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (5% DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 10.7

| NO EGA | FREQ. | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | PROC. DATE - MONTH 8 DAY 24 HR. 10.7 | | | | |
|--------------------|--------|--------|--------|--------|---|--------|--------|--------|--------------------------------------|--------|--------|--------|--------|
| | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 |
| 50 | (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) |
| 60 | | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | |
| 100 | 71.1 | 80.9 | 78.9 | 79.2 | 80.8 | 81.4 | 81.5 | 83.0 | 82.9 | 85.5 | 89.4 | 88.4 | 90.2 |
| 125 | 71.3 | 75.1 | 76.9 | 78.4 | 80.2 | 80.9 | 81.0 | 82.9 | 81.6 | 81.9 | 89.6 | 90.3 | 90.4 |
| 160 | 72.6 | 74.7 | 77.2 | 77.5 | 78.8 | 78.7 | 79.3 | 82.0 | 83.4 | 87.7 | 92.2 | 92.4 | 93.9 |
| 200 | 74.5 | 75.3 | 76.8 | 78.3 | 79.2 | 79.5 | 80.9 | 83.8 | 86.5 | 89.9 | 93.8 | 97.0 | 98.0 |
| 250 | 74.6 | 77.3 | 78.6 | 78.6 | 80.5 | 81.6 | 84.2 | 85.9 | 87.8 | 92.7 | 98.4 | 99.5 | 99.6 |
| 315 | 75.9 | 79.7 | 79.2 | 81.5 | 83.6 | 83.7 | 85.1 | 87.7 | 90.4 | 95.3 | 101.0 | 102.9 | 102.9 |
| 400 | 77.9 | 80.0 | 82.0 | 81.8 | 83.3 | 84.2 | 85.6 | 89.0 | 93.0 | 98.3 | 103.7 | 104.9 | 103.7 |
| 500 | 78.8 | 80.0 | 82.0 | 82.6 | 83.9 | 85.8 | 87.2 | 90.1 | 94.3 | 100.9 | 105.8 | 107.0 | 104.5 |
| 630 | 80.1 | 82.4 | 82.6 | 83.9 | 85.5 | 86.9 | 88.8 | 91.7 | 95.6 | 101.5 | 106.9 | 108.3 | 106.1 |
| 800 | 82.6 | 83.7 | 84.4 | 85.4 | 87.0 | 88.2 | 90.0 | 93.7 | 96.7 | 102.7 | 108.9 | 109.6 | 107.4 |
| 1000 | 86.0 | 86.7 | 88.2 | 87.5 | 88.6 | 89.2 | 91.1 | 94.3 | 97.7 | 102.8 | 107.5 | 107.7 | 107.0 |
| 1250 | 84.3 | 85.8 | 88.1 | 87.9 | 88.7 | 90.6 | 91.4 | 95.1 | 98.1 | 102.1 | 105.6 | 107.0 | 105.1 |
| 1600 | 84.4 | 85.9 | 86.4 | 87.0 | 88.8 | 90.7 | 92.1 | 94.5 | 98.4 | 101.8 | 104.0 | 104.6 | 103.4 |
| 2000 | 84.4 | 86.2 | 87.5 | 86.8 | 89.1 | 90.2 | 92.6 | 95.5 | 98.7 | 101.1 | 101.8 | 102.2 | 100.5 |
| 2500 | 84.3 | 85.8 | 87.3 | 87.9 | 89.7 | 90.3 | 92.5 | 96.1 | 99.3 | 100.2 | 100.6 | 101.3 | 98.8 |
| 3150 | 84.2 | 87.0 | 88.6 | 87.8 | 89.9 | 90.0 | 91.9 | 96.1 | 99.8 | 100.9 | 102.1 | 101.5 | 99.5 |
| 4000 | 83.5 | 85.6 | 87.3 | 87.6 | 88.9 | 90.6 | 91.9 | 95.6 | 98.6 | 100.4 | 102.1 | 102.3 | 100.3 |
| 5000 | 83.6 | 86.7 | 87.7 | 88.2 | 89.3 | 90.9 | 92.6 | 95.7 | 97.7 | 98.6 | 103.0 | 103.4 | 101.9 |
| 6300 | 83.4 | 87.0 | 87.8 | 88.2 | 89.6 | 91.5 | 93.1 | 95.3 | 98.0 | 97.9 | 102.6 | 103.7 | 102.5 |
| 8000 | 82.5 | 85.6 | 86.1 | 87.9 | 89.9 | 91.6 | 92.7 | 95.4 | 97.4 | 98.2 | 102.2 | 103.3 | 102.6 |
| 10000 | 81.6 | 86.5 | 86.8 | 87.3 | 89.4 | 90.4 | 90.5 | 91.6 | 95.0 | 97.3 | 97.0 | 100.9 | 102.2 |
| 12500 | 79.5 | 85.0 | 85.1 | 86.3 | 88.6 | 90.0 | 91.3 | 93.8 | 95.9 | 95.3 | 99.7 | 102.3 | 100.0 |
| 16000 | 77.5 | 83.5 | 83.5 | 85.2 | 87.7 | 88.3 | 90.3 | 92.7 | 95.0 | 93.7 | 98.1 | 100.9 | 99.0 |
| 20000 | 74.5 | 80.3 | 81.4 | 82.0 | 86.5 | 85.9 | 88.1 | 89.8 | 93.7 | 91.7 | 95.6 | 97.7 | 96.9 |
| 25000 | 71.0 | 78.8 | 78.1 | 79.5 | 82.7 | 83.2 | 84.7 | 86.8 | 90.7 | 88.6 | 92.9 | 93.7 | 92.8 |
| 31500 | 68.5 | 76.5 | 77.2 | 78.1 | 81.2 | 81.1 | 82.1 | 85.2 | 87.5 | 85.5 | 89.5 | 91.4 | 91.1 |
| 40000 | 62.6 | 70.1 | 72.7 | 73.7 | 76.1 | 76.1 | 77.1 | 81.1 | 82.7 | 80.8 | 85.1 | 86.2 | 85.1 |
| 50000 | 56.0 | 63.6 | 66.5 | 66.6 | 69.5 | 69.6 | 70.0 | 73.4 | 75.1 | 74.0 | 79.2 | 79.7 | 77.8 |
| 63000 | 49.9 | 55.5 | 59.3 | 63.1 | 63.0 | 63.9 | 65.4 | 67.1 | 66.8 | 71.2 | 71.2 | 70.2 | 70.2 |
| 80000 | 45.9 | 50.1 | 55.4 | 52.6 | 59.6 | 60.0 | 59.6 | 56.9 | 59.7 | 61.3 | 64.2 | 62.9 | 64.2 |
| OVERALL MEASURED | | | | | | | | | | | | | |
| OVERALL CALCULATED | 95.4 | 98.1 | 99.1 | 99.5 | 101.4 | 102.5 | 104.1 | 107.1 | 110.1 | 112.8 | 116.8 | 117.8 | 116.3 |
| PRDB | 108.0 | 110.6 | 111.8 | 111.8 | 113.7 | 114.6 | 116.1 | 119.6 | 122.8 | 124.8 | 127.6 | 128.2 | 126.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION - TEST POINT ACQUISTIC RANGE SIZE
 3 320 12.2m(40ft.) ARC MODEL-71.3cm²(11. lin²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 8 DAY 24 HR. 12.1
 (59. DEG. F, 70-PERCENT REL. HUM. DAY - JENOTS)

SCALED FROM MODEL DATA (59. DEG. F, 70-PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (CMB RADIAN)

| RDG. NO. | VEHICLE | LOC | DATE | RUN | TAPE | BAR | TAMB | TWT | HACT | DIAMETER | LEVELS | | | | | | PWL | | | | | | | | | | |
|--------------------|---------|-------|----------|-------|--------|-------|-------|-------|-------|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | |
| 50 | NO EGA | C41 | 06-01-76 | CONF3 | X03200 | 29.3 | 64. | 62. | 59. | 50.8 | 100.8 | 103.7 | 104.7 | 105.1 | 107.2 | 108.2 | 109.8 | 112.8 | 115.7 | 118.1 | 121.6 | 123.1 | 126.9 | 130.9 | 132.6 | 131.0 | |
| 63 | 83.1 | 85.2 | 87.2 | 89.1 | 90.7 | 92.1 | 93.4 | 94.4 | 95.6 | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| 80 | 84.0 | 85.2 | 87.2 | 89.1 | 90.7 | 92.1 | 93.4 | 94.4 | 95.6 | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| 100 | 85.3 | 87.6 | 89.6 | 91.0 | 92.4 | 93.4 | 94.4 | 95.6 | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| 125 | 87.6 | 89.9 | 91.9 | 93.1 | 94.0 | 95.6 | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| 160 | 91.2 | 93.4 | 95.6 | 97.3 | 98.2 | 99.5 | 102.9 | 108.0 | 112.7 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 |
| 200 | 89.5 | 91.0 | 92.7 | 94.0 | 95.9 | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| 250 | 89.6 | 91.1 | 92.8 | 94.1 | 95.0 | 95.6 | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| 315 | 89.7 | 91.4 | 93.1 | 94.3 | 95.2 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 |
| 400 | 89.5 | 91.1 | 92.6 | 93.1 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 |
| 500 | 89.5 | 92.3 | 93.9 | 93.1 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 |
| 630 | 88.9 | 90.9 | 92.7 | 93.0 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 |
| 800 | 89.0 | 92.1 | 93.1 | 93.6 | 94.7 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 |
| 1000 | 88.9 | 92.5 | 93.5 | 93.3 | 95.1 | 97.0 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |
| 1250 | 88.1 | 91.2 | 91.8 | 93.2 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 |
| 1600 | 87.5 | 92.4 | 92.7 | 93.2 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 |
| 2000 | 88.8 | 91.3 | 91.4 | 92.6 | 94.9 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 |
| 2500 | 84.5 | 90.5 | 90.4 | 92.1 | 94.6 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 |
| 3150 | 82.2 | 88.0 | 89.1 | 89.8 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 |
| 4000 | 79.9 | 87.7 | 87.0 | 88.3 | 91.6 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 |
| 5000 | 79.3 | 87.4 | 88.0 | 89.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 |
| 6300 | 76.1 | 83.6 | 86.2 | 87.2 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 |
| 8000 | 72.9 | 80.5 | 83.4 | 83.5 | 86.4 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 |
| 10000 | 71.8 | 77.4 | 81.5 | 81.2 | 85.0 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 |
| 12500 | 75.3 | 79.5 | 84.8 | 82.0 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 |
| OVERALL CALCULATED | 100.8 | 103.7 | 104.7 | 105.1 | 107.2 | 108.2 | 109.8 | 112.8 | 115.7 | 118.1 | 121.6 | 123.1 | 126.9 | 130.9 | 132.6 | 131.0 | | | | | | | | | | | |
| PNDB | 110.2 | 114.9 | 116.5 | 119.2 | 119.7 | 121.3 | 124.1 | 126.9 | 127.0 | 130.9 | 132.6 | 131.0 | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 320 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in.²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | (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) |
| 63 | 52.9 | 58.3 | 58.9 | 61.9 | 64.4 | 64.6 | 65.9 | 68.1 | 70.1 | 73.8 | 78.0 | 77.6 | 74.2 |
| 80 | 54.9 | 58.5 | 61.6 | 62.1 | 64.1 | 65.1 | 66.4 | 69.4 | 72.6 | 76.8 | 80.7 | 79.6 | 74.9 |
| 100 | 55.6 | 58.5 | 61.6 | 62.9 | 64.6 | 66.6 | 67.9 | 70.4 | 73.9 | 79.3 | 82.7 | 81.6 | 75.5 |
| 125 | 56.9 | 60.8 | 62.1 | 64.2 | 66.2 | 67.7 | 69.4 | 71.9 | 75.1 | 79.8 | 83.7 | 82.8 | 76.9 |
| 160 | 59.3 | 61.9 | 63.8 | 65.6 | 67.6 | 68.9 | 70.6 | 73.8 | 76.1 | 81.0 | 85.6 | 83.9 | 78.0 |
| 200 | 62.4 | 64.9 | 67.5 | 67.6 | 69.1 | 69.8 | 71.6 | 74.3 | 77.0 | 80.9 | 84.0 | 81.7 | 77.2 |
| 250 | 60.5 | 63.8 | 67.2 | 67.8 | 69.0 | 71.0 | 71.8 | 75.0 | 77.2 | 80.1 | 81.9 | 80.8 | 74.9 |
| 315 | 60.4 | 63.7 | 65.4 | 66.7 | 69.0 | 71.0 | 72.2 | 74.2 | 77.4 | 79.5 | 80.0 | 78.1 | 72.8 |
| 400 | 59.5 | 62.9 | 65.7 | 67.1 | 69.4 | 70.2 | 72.6 | 75.0 | 77.4 | 78.5 | 77.4 | 75.2 | 69.2 |
| 500 | 59.0 | 63.8 | 66.6 | 66.8 | 69.3 | 69.6 | 71.3 | 75.0 | 77.9 | 77.6 | 76.9 | 73.3 | 66.5 |
| 630 | 57.7 | 61.8 | 65.0 | 66.1 | 68.0 | 69.8 | 71.0 | 74.1 | 76.2 | 76.7 | 76.3 | 73.3 | 66.0 |
| 800 | 56.9 | 62.2 | 64.7 | 66.2 | 67.8 | 69.6 | 71.1 | 73.7 | 74.7 | 74.1 | 76.3 | 73.2 | 65.9 |
| 1000 | 55.7 | 61.7 | 63.3 | 65.1 | 67.5 | 69.6 | 71.0 | 72.6 | 74.3 | 72.6 | 74.9 | 72.3 | 64.5 |
| 1250 | 53.6 | 59.3 | 61.6 | 64.5 | 67.2 | 69.0 | 69.9 | 72.0 | 72.8 | 72.0 | 73.3 | 70.2 | 62.1 |
| 1600 | 51.0 | 58.9 | 61.1 | 62.8 | 66.6 | 66.9 | 67.8 | 70.6 | 71.6 | 69.3 | 70.3 | 67.7 | 58.3 |
| 2000 | 47.0 | 55.8 | 58.1 | 60.7 | 63.8 | 65.4 | 66.4 | 68.2 | 68.9 | 66.1 | 67.2 | 64.3 | 52.0 |
| 2500 | 42.3 | 52.2 | 54.7 | 57.9 | 61.3 | 62.2 | 63.9 | 65.4 | 66.2 | 62.4 | 62.9 | 59.2 | 45.3 |
| 3150 | 34.7 | 45.3 | 49.4 | 52.0 | 57.3 | 57.2 | 59.1 | 59.8 | 61.7 | 56.7 | 55.8 | 49.9 | 33.6 |
| 4000 | 24.3 | 38.2 | 41.4 | 45.1 | 49.7 | 50.6 | 51.7 | 52.4 | 54.0 | 48.0 | 46.1 | 36.5 | 15.2 |
| 5000 | 19.0 | 34.0 | 39.0 | 42.7 | 47.2 | 47.6 | 48.1 | 49.7 | 49.3 | 43.0 | 40.1 | 30.1 | 6.5 |
| 6300 | 2.0 | 18.8 | 27.1 | 31.7 | 35.9 | 36.3 | 36.9 | 39.0 | 37.1 | 29.5 | 24.6 | 9.8 | |
| 8000 | | | 8.9 | 13.8 | 19.3 | 20.2 | 19.8 | 20.6 | 17.5 | 8.6 | 0.9 | | |
| 10000 | | | | | | 0.2 | | | | | | | |
| OVERALL CALCULATED | 70.3 | 74.2 | 76.7 | 77.8 | 80.0 | 81.3 | 82.8 | 85.3 | 87.8 | 90.0 | 92.5 | 90.9 | 85.3 |
| PNOB | 74.2 | 79.8 | 82.4 | 84.1 | 87.2 | 88.3 | 89.6 | 92.0 | 93.8 | 93.9 | 93.4 | 93.1 | 86.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **320** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE SIZE **2** FULL-33m²(513sq.ft.)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 24 HR. 10.7
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
ANGLES FROM INLET IN DEGREES (AND RADIAN'S)

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. P.W.L
(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.)

| RDG. NO. | NO EGA | RADIAL | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TMET | HACT | FREQ. | PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | |
|--------------------|--------|--------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 100 | 71.4 | 80.7 | 78.9 | 80.0 | 80.5 | 81.7 | 81.8 | 83.0 | 83.4 | 86.2 | 89.9 | 88.4 | 90.7 | 126.4 | | | | | | | | | | | | |
| 125 | 71.3 | 75.4 | 77.4 | 78.7 | 80.2 | 81.4 | 81.7 | 82.9 | 81.6 | 81.7 | 89.6 | 90.3 | 90.4 | 126.0 | | | | | | | | | | | | |
| 160 | 72.1 | 74.9 | 77.2 | 77.5 | 78.5 | 78.4 | 79.0 | 80.7 | 81.5 | 82.9 | 87.5 | 91.4 | 93.2 | 127.4 | | | | | | | | | | | | |
| 200 | 74.0 | 75.3 | 76.8 | 78.6 | 79.2 | 79.8 | 80.7 | 83.6 | 86.5 | 89.9 | 93.6 | 96.8 | 97.8 | 130.9 | | | | | | | | | | | | |
| 250 | 74.8 | 77.1 | 78.3 | 78.4 | 80.2 | 81.6 | 83.7 | 85.4 | 87.6 | 92.4 | 97.6 | 98.5 | 99.1 | 133.2 | | | | | | | | | | | | |
| 315 | 75.7 | 79.4 | 82.2 | 81.8 | 83.1 | 83.9 | 85.1 | 87.5 | 90.4 | 95.5 | 100.2 | 103.9 | 102.4 | 136.2 | | | | | | | | | | | | |
| 400 | 77.9 | 80.2 | 82.2 | 81.8 | 83.6 | 84.7 | 85.8 | 89.0 | 92.7 | 98.3 | 103.5 | 104.4 | 103.5 | 138.6 | | | | | | | | | | | | |
| 500 | 79.3 | 80.3 | 82.3 | 82.3 | 83.9 | 85.8 | 87.2 | 90.3 | 94.0 | 100.6 | 105.3 | 105.7 | 104.5 | 140.1 | | | | | | | | | | | | |
| 630 | 80.4 | 82.4 | 82.9 | 83.9 | 85.8 | 87.1 | 89.0 | 91.9 | 95.6 | 101.7 | 106.9 | 107.6 | 105.9 | 141.7 | | | | | | | | | | | | |
| 800 | 81.9 | 83.4 | 84.2 | 85.4 | 87.3 | 88.4 | 90.3 | 93.4 | 97.2 | 102.0 | 107.9 | 108.1 | 106.9 | 142.5 | | | | | | | | | | | | |
| 1000 | 85.5 | 86.2 | 87.5 | 87.3 | 88.1 | 89.2 | 90.9 | 94.3 | 97.0 | 101.6 | 106.5 | 105.7 | 106.0 | 141.3 | | | | | | | | | | | | |
| 1250 | 83.3 | 85.1 | 87.3 | 87.4 | 88.4 | 90.1 | 91.4 | 95.1 | 98.3 | 101.1 | 104.4 | 104.0 | 103.6 | 140.0 | | | | | | | | | | | | |
| 1600 | 83.9 | 85.4 | 86.2 | 87.0 | 88.3 | 90.7 | 91.6 | 94.5 | 97.9 | 100.8 | 102.7 | 101.6 | 101.2 | 138.7 | | | | | | | | | | | | |
| 2000 | 84.7 | 85.7 | 87.2 | 87.3 | 88.6 | 90.2 | 92.1 | 95.8 | 98.2 | 100.1 | 101.5 | 99.2 | 98.2 | 137.9 | | | | | | | | | | | | |
| 2500 | 84.0 | 86.3 | 87.1 | 87.9 | 89.7 | 90.3 | 92.5 | 95.9 | 98.8 | 99.7 | 100.4 | 98.8 | 97.6 | 138.4 | | | | | | | | | | | | |
| 3150 | 83.7 | 86.5 | 88.1 | 88.1 | 89.7 | 90.3 | 91.9 | 95.6 | 99.3 | 100.1 | 102.1 | 98.8 | 99.8 | 138.6 | | | | | | | | | | | | |
| 4000 | 83.0 | 85.8 | 87.1 | 87.4 | 88.4 | 90.4 | 91.6 | 96.0 | 98.3 | 100.2 | 102.4 | 100.8 | 100.1 | 139.0 | | | | | | | | | | | | |
| 5000 | 83.4 | 86.4 | 87.5 | 87.7 | 88.8 | 90.4 | 91.6 | 96.0 | 98.0 | 98.3 | 103.3 | 101.9 | 101.7 | 139.1 | | | | | | | | | | | | |
| 6300 | 82.9 | 86.3 | 87.3 | 88.1 | 89.9 | 91.3 | 92.4 | 95.3 | 98.0 | 97.9 | 102.6 | 102.5 | 102.3 | 138.8 | | | | | | | | | | | | |
| 8000 | 82.2 | 85.3 | 85.6 | 87.6 | 89.7 | 91.3 | 92.9 | 95.4 | 97.6 | 98.0 | 102.2 | 101.8 | 102.6 | 137.5 | | | | | | | | | | | | |
| 10000 | 80.9 | 86.0 | 86.3 | 86.8 | 89.6 | 90.0 | 91.9 | 95.0 | 97.6 | 97.5 | 100.9 | 101.0 | 102.5 | 138.0 | | | | | | | | | | | | |
| 12500 | 78.5 | 83.5 | 84.6 | 86.1 | 88.1 | 89.7 | 91.0 | 93.6 | 95.6 | 96.0 | 99.4 | 100.0 | 101.2 | 136.0 | | | | | | | | | | | | |
| 16000 | 76.8 | 81.8 | 83.2 | 85.2 | 87.2 | 88.0 | 90.8 | 92.7 | 95.5 | 94.7 | 98.1 | 98.4 | 99.5 | 134.0 | | | | | | | | | | | | |
| 20000 | 73.5 | 79.3 | 81.1 | 82.0 | 85.5 | 85.9 | 88.4 | 90.1 | 93.9 | 92.2 | 94.6 | 95.0 | 97.4 | 133.5 | | | | | | | | | | | | |
| 25000 | 70.5 | 77.3 | 79.6 | 79.5 | 82.2 | 82.7 | 84.2 | 86.5 | 90.9 | 89.1 | 91.9 | 90.9 | 92.3 | 132.2 | | | | | | | | | | | | |
| 31500 | 67.5 | 74.8 | 76.4 | 78.4 | 80.4 | 80.1 | 81.6 | 85.2 | 87.7 | 85.5 | 88.8 | 88.4 | 90.4 | 129.4 | | | | | | | | | | | | |
| 40000 | 61.8 | 69.6 | 72.9 | 73.7 | 75.6 | 75.6 | 77.3 | 80.6 | 83.0 | 81.0 | 85.1 | 83.2 | 85.1 | 128.3 | | | | | | | | | | | | |
| 50000 | 55.3 | 62.1 | 65.8 | 66.4 | 68.7 | 69.3 | 70.0 | 73.4 | 75.3 | 73.5 | 78.4 | 76.9 | 77.6 | 152.5 | | | | | | | | | | | | |
| 63000 | 49.6 | 55.0 | 59.3 | 59.0 | 62.6 | 63.2 | 63.1 | 64.9 | 67.3 | 66.6 | 71.4 | 68.9 | 70.0 | 152.5 | | | | | | | | | | | | |
| 80000 | 45.9 | 49.6 | 55.1 | 52.6 | 59.3 | 59.5 | 59.1 | 56.9 | 59.4 | 61.1 | 68.0 | 61.6 | 63.7 | 152.6 | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 95.1 | 97.7 | 98.8 | 99.4 | 101.1 | 102.3 | 103.9 | 107.1 | 110.0 | 112.3 | 116.3 | 116.2 | 115.8 | | | | | | | | | | | | | |
| PR08 | 107.6 | 110.3 | 111.5 | 111.9 | 113.4 | 114.5 | 116.0 | 119.5 | 122.5 | 124.3 | 127.4 | 126.6 | 126.3 | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3-2/ ACQUSTIC RANGE 12.2ft(40ft.) ARC SIZE MODEL-71.3cm²III. (in²)

| RDG. NO. | NO EGA | RADIAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMP | TMET | MACH | JET | DIAMETER RATIO | DF/DM | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | PWL | | | | | | | | | | | | | | |
|--------------------|--------|-----------------|---------|--------|------|------|------|-------|-------|-------|-------|-------|-------|----------------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|--|--|--|--|
| | | | | | | | | | | | | | | | | 40. | 50. | 60. | | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | |
| 50 | 80.8 | 84.6 | 84.1 | 86.2 | 88.3 | 89.1 | 90.3 | 92.7 | 95.6 | 100.7 | 105.4 | 107.1 | 107.6 | 152.8 | | | | | | | | | | | | | | | | | | | |
| 63 | 83.1 | 85.4 | 87.5 | 89.1 | 91.0 | 92.3 | 94.2 | 97.1 | 100.8 | 106.9 | 112.1 | 112.8 | 111.1 | 156.8 | | | | | | | | | | | | | | | | | | | |
| 80 | 84.5 | 85.5 | 87.5 | 89.1 | 91.0 | 92.3 | 94.2 | 97.1 | 100.8 | 106.9 | 112.1 | 112.8 | 111.1 | 158.4 | | | | | | | | | | | | | | | | | | | |
| 100 | 85.6 | 87.6 | 88.1 | 89.1 | 91.0 | 92.3 | 94.2 | 97.1 | 100.8 | 106.9 | 112.1 | 112.8 | 111.1 | 159.2 | | | | | | | | | | | | | | | | | | | |
| 125 | 87.1 | 88.6 | 89.4 | 90.6 | 92.5 | 93.6 | 94.4 | 96.1 | 99.5 | 102.2 | 106.8 | 111.7 | 110.9 | 158.0 | | | | | | | | | | | | | | | | | | | |
| 160 | 90.7 | 91.4 | 92.7 | 92.5 | 93.3 | 93.7 | 95.3 | 96.7 | 100.3 | 103.5 | 106.6 | 109.6 | 109.2 | 156.7 | | | | | | | | | | | | | | | | | | | |
| 200 | 88.5 | 90.3 | 92.5 | 92.6 | 93.7 | 95.3 | 95.9 | 96.8 | 99.7 | 103.2 | 106.0 | 107.9 | 106.9 | 155.4 | | | | | | | | | | | | | | | | | | | |
| 250 | 89.1 | 90.6 | 91.4 | 92.2 | 93.5 | 95.9 | 96.8 | 99.7 | 103.2 | 106.0 | 107.9 | 106.9 | 106.4 | 154.5 | | | | | | | | | | | | | | | | | | | |
| 315 | 89.9 | 90.9 | 92.5 | 92.5 | 93.8 | 95.4 | 97.3 | 101.0 | 103.5 | 105.3 | 106.7 | 104.4 | 103.4 | 154.3 | | | | | | | | | | | | | | | | | | | |
| 400 | 89.3 | 91.6 | 92.3 | 93.1 | 95.0 | 95.6 | 97.7 | 101.1 | 104.1 | 104.9 | 105.6 | 104.0 | 102.8 | 155.1 | | | | | | | | | | | | | | | | | | | |
| 500 | 89.0 | 91.8 | 93.4 | 93.4 | 95.0 | 95.6 | 97.2 | 100.9 | 104.6 | 105.4 | 107.4 | 106.1 | 105.1 | 155.3 | | | | | | | | | | | | | | | | | | | |
| 630 | 85.4 | 91.2 | 92.4 | 92.7 | 93.8 | 95.4 | 97.1 | 101.2 | 103.7 | 105.5 | 107.7 | 106.1 | 105.4 | 155.8 | | | | | | | | | | | | | | | | | | | |
| 800 | 88.8 | 91.8 | 92.8 | 93.1 | 94.2 | 95.8 | 96.9 | 101.4 | 103.3 | 103.7 | 108.6 | 107.3 | 107.1 | 155.7 | | | | | | | | | | | | | | | | | | | |
| 1000 | 88.4 | 91.7 | 92.8 | 93.5 | 95.4 | 96.7 | 97.9 | 100.8 | 103.5 | 103.4 | 108.1 | 108.0 | 107.7 | 155.8 | | | | | | | | | | | | | | | | | | | |
| 1250 | 87.9 | 91.0 | 91.3 | 93.3 | 95.3 | 97.0 | 98.6 | 101.0 | 103.3 | 103.6 | 107.8 | 107.4 | 108.2 | 155.5 | | | | | | | | | | | | | | | | | | | |
| 1600 | 86.8 | 91.9 | 92.2 | 92.7 | 95.5 | 95.9 | 97.8 | 101.0 | 103.7 | 103.6 | 106.8 | 106.9 | 108.4 | 154.6 | | | | | | | | | | | | | | | | | | | |
| 2000 | 84.8 | 89.8 | 90.9 | 92.4 | 94.4 | 96.0 | 97.3 | 99.9 | 101.9 | 102.3 | 105.7 | 106.3 | 107.5 | 152.6 | | | | | | | | | | | | | | | | | | | |
| 2500 | 83.7 | 88.7 | 90.2 | 92.1 | 94.1 | 95.0 | 97.7 | 99.6 | 102.4 | 101.6 | 105.0 | 105.3 | 106.5 | 150.6 | | | | | | | | | | | | | | | | | | | |
| 3150 | 81.2 | 87.0 | 88.9 | 89.8 | 93.3 | 93.6 | 96.1 | 97.8 | 101.7 | 99.9 | 102.3 | 102.7 | 105.1 | 150.2 | | | | | | | | | | | | | | | | | | | |
| 4000 | 79.4 | 86.2 | 86.5 | 88.3 | 91.1 | 91.6 | 93.1 | 95.4 | 99.8 | 97.9 | 100.8 | 99.8 | 101.1 | 148.8 | | | | | | | | | | | | | | | | | | | |
| 5000 | 78.3 | 85.6 | 87.3 | 89.3 | 91.3 | 91.0 | 92.5 | 96.0 | 98.6 | 96.4 | 99.6 | 99.2 | 101.2 | 146.0 | | | | | | | | | | | | | | | | | | | |
| 6000 | 72.2 | 79.0 | 82.7 | 83.3 | 85.6 | 86.2 | 86.9 | 90.3 | 92.2 | 90.4 | 95.3 | 93.8 | 94.5 | 145.0 | | | | | | | | | | | | | | | | | | | |
| 10000 | 71.5 | 76.9 | 81.2 | 81.0 | 84.7 | 85.2 | 85.0 | 86.8 | 89.3 | 88.5 | 93.4 | 90.9 | 91.9 | 149.3 | | | | | | | | | | | | | | | | | | | |
| 12500 | 73.3 | 79.0 | 84.6 | 82.0 | 88.7 | 88.9 | 88.5 | 86.3 | 88.9 | 90.5 | 97.4 | 91.1 | 93.1 | 168.9 | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | 100.4 | 103.1 | 104.3 | 105.0 | 106.9 | 108.0 | 109.6 | 112.7 | 115.7 | 117.7 | 121.6 | 121.4 | 121.1 | | | | | | |
| PH00 | | | | | | | | | | | | | | | 109.6 | 113.9 | 115.3 | 116.5 | 118.6 | 119.6 | 121.4 | 124.0 | 127.0 | 127.2 | 130.6 | 130.3 | 131.0 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 321 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(1513in.)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (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) |
| SIDELINE 2400. FT. | 50 | 52.7 | 58.0 | 58.6 | 61.4 | 63.9 | 64.9 | 67.9 | 70.1 | 74.1 | 77.2 | 76.6 | 73.7 |
| (731.52 M) | 63 | 54.9 | 58.7 | 61.6 | 62.1 | 65.4 | 66.6 | 69.4 | 72.3 | 76.8 | 80.4 | 79.1 | 74.6 |
| MFA (0. RAD/SEC) | 80 | 56.1 | 58.7 | 61.9 | 62.6 | 64.6 | 66.6 | 67.9 | 70.6 | 73.6 | 79.1 | 82.2 | 80.3 |
| NFK (0. RAD/SEC) | 100 | 57.1 | 60.8 | 62.4 | 64.2 | 66.4 | 67.9 | 69.7 | 72.2 | 75.1 | 80.1 | 83.7 | 82.0 |
| NFD 7500. RPM | 125 | 58.5 | 61.7 | 63.6 | 65.6 | 67.9 | 69.1 | 70.9 | 73.6 | 76.6 | 80.2 | 84.6 | 82.4 |
| (785. RAD/SEC) | 160 | 61.9 | 64.4 | 66.8 | 67.3 | 68.6 | 69.8 | 71.3 | 74.3 | 76.3 | 79.7 | 83.0 | 79.7 |
| AIRFLOW RATIO | 200 | 59.5 | 63.0 | 66.5 | 67.3 | 68.3 | 70.5 | 71.8 | 75.0 | 77.5 | 79.1 | 80.6 | 77.8 |
| WF/PM 6.81 | 250 | 59.9 | 63.2 | 65.1 | 66.7 | 68.5 | 71.0 | 71.7 | 74.2 | 76.9 | 78.5 | 78.7 | 75.1 |
| VEHICLE CELL41 | 315 | 60.4 | 63.2 | 65.9 | 66.8 | 68.6 | 70.3 | 72.1 | 75.3 | 76.9 | 77.5 | 77.2 | 72.2 |
| CONFIG MC41 | 400 | 59.3 | 63.4 | 65.5 | 67.1 | 69.4 | 70.2 | 72.2 | 75.1 | 77.2 | 76.8 | 75.6 | 71.2 |
| LOC C41 ANECH CH | 500 | 58.5 | 63.3 | 66.1 | 67.0 | 69.1 | 69.9 | 71.3 | 74.5 | 77.4 | 76.9 | 76.9 | 70.6 |
| GATE 06-01-76 | 630 | 57.2 | 62.0 | 64.7 | 65.9 | 67.5 | 69.3 | 70.7 | 74.4 | 76.0 | 75.4 | 76.5 | 71.8 |
| RUN CUMFLOWLWC | 800 | 56.6 | 61.9 | 64.4 | 65.7 | 67.3 | 69.1 | 70.1 | 73.9 | 74.9 | 73.8 | 76.5 | 71.7 |
| TAPE X03210 | 1000 | 55.2 | 61.0 | 63.6 | 65.4 | 67.8 | 69.3 | 70.3 | 72.6 | 74.3 | 72.6 | 74.9 | 71.0 |
| FAN TIP SPEED | 1250 | 53.3 | 59.0 | 61.1 | 64.2 | 66.9 | 68.7 | 70.2 | 72.0 | 73.1 | 71.7 | 73.3 | 68.7 |
| FT/SEC | 1600 | 50.3 | 58.4 | 60.6 | 62.3 | 65.8 | 66.4 | 68.1 | 70.6 | 72.1 | 69.8 | 70.3 | 65.7 |
| | 2000 | 46.0 | 54.3 | 57.6 | 60.5 | 63.3 | 65.1 | 66.2 | 68.0 | 68.6 | 66.9 | 62.1 | 58.3 |
| | 2500 | 41.6 | 50.5 | 54.4 | 57.9 | 60.8 | 62.0 | 64.4 | 65.4 | 66.7 | 63.4 | 62.9 | 56.7 |
| | 3150 | 33.7 | 44.3 | 49.2 | 52.0 | 56.5 | 57.2 | 59.4 | 60.0 | 62.0 | 57.2 | 54.8 | 47.1 |
| | 4000 | 23.8 | 36.7 | 40.9 | 45.1 | 49.2 | 50.1 | 51.2 | 52.2 | 56.2 | 48.5 | 45.1 | 33.8 |
| | 5000 | 18.0 | 32.3 | 38.3 | 42.9 | 46.4 | 46.6 | 47.6 | 49.7 | 49.6 | 43.0 | 39.3 | 27.1 |
| | 6300 | 1.3 | 18.3 | 27.3 | 31.7 | 35.4 | 36.0 | 37.2 | 38.5 | 37.4 | 29.7 | 24.6 | 6.8 |
| | 8000 | | 8.2 | 13.5 | 18.5 | 19.9 | 19.8 | 20.6 | 17.7 | 8.1 | 0.1 | | |
| OVERALL CALCULATED | 70.0 | 73.9 | 76.4 | 77.7 | 79.7 | 81.2 | 82.6 | 85.5 | 87.6 | 89.4 | 91.9 | 89.3 | 86.7 |
| PNDB | 73.8 | 79.2 | 82.0 | 83.9 | 86.7 | 88.1 | 89.5 | 92.0 | 93.8 | 93.5 | 94.8 | 91.3 | 85.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 321 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE 2 FULL-.33m²(513in.²)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| FREQ. (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) | (3.0) |
| NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 0. | 0. | 0. | 0. |
| RDG. NO. | 71.1 | 80.7 | 79.2 | 80.0 | 81.0 | 81.7 | 81.5 | 83.0 | 83.4 | 86.2 | 89.7 | 88.1 | 90.4 | 126.3 | | | |
| RADIAL (12. M) | 75.4 | 77.6 | 77.6 | 78.9 | 80.7 | 81.6 | 82.0 | 83.7 | 82.1 | 82.4 | 90.1 | 90.8 | 90.9 | 126.4 | | | |
| VEHICLE CELL41 | 72.4 | 74.7 | 77.4 | 77.5 | 79.0 | 78.7 | 79.5 | 81.2 | 83.2 | 88.2 | 92.2 | 92.4 | 93.7 | 128.0 | | | |
| CONFIG NC41 | 74.5 | 75.3 | 77.3 | 78.8 | 78.9 | 80.0 | 80.9 | 84.3 | 86.5 | 90.6 | 94.1 | 96.8 | 97.5 | 131.0 | | | |
| LOC C41 ANECH CH | 74.6 | 77.3 | 78.6 | 78.4 | 79.7 | 81.3 | 83.7 | 85.4 | 87.8 | 92.7 | 97.9 | 99.0 | 99.3 | 133.4 | | | |
| DATE 06-01-76 | 75.9 | 79.7 | 79.4 | 81.2 | 83.3 | 83.9 | 85.1 | 87.2 | 90.4 | 95.5 | 100.0 | 102.6 | 102.4 | 136.3 | | | |
| RUN CONF3LOWFLWC | 400 | 77.9 | 80.0 | 82.0 | 81.7 | 83.3 | 84.2 | 85.6 | 89.2 | 92.7 | 98.5 | 103.0 | 104.4 | 138.5 | | | |
| TAPE X03220 | 500 | 79.0 | 80.5 | 82.0 | 82.8 | 84.7 | 86.0 | 87.2 | 90.3 | 94.0 | 100.9 | 105.1 | 106.5 | 140.4 | | | |
| BAR 29.3 HG | 630 | 80.1 | 82.4 | 82.6 | 83.9 | 85.8 | 87.1 | 88.5 | 91.7 | 95.4 | 101.5 | 105.7 | 107.6 | 141.2 | | | |
| (98975. N/M2) | 800 | 81.9 | 83.2 | 84.4 | 85.2 | 86.8 | 88.2 | 89.8 | 93.2 | 96.4 | 102.0 | 106.2 | 107.6 | 141.6 | | | |
| TAMB 63. DEG F | 1000 | 84.0 | 84.7 | 86.5 | 86.5 | 88.1 | 89.2 | 91.1 | 94.0 | 96.5 | 101.6 | 104.3 | 104.7 | 140.0 | | | |
| (250. DEG K) | 1250 | 83.0 | 84.6 | 87.1 | 86.9 | 87.9 | 89.6 | 90.9 | 94.4 | 97.6 | 101.1 | 102.4 | 103.5 | 139.0 | | | |
| (289. DEG K) | 1600 | 83.6 | 85.4 | 85.7 | 86.7 | 88.1 | 90.2 | 91.6 | 94.2 | 97.4 | 101.0 | 101.4 | 101.8 | 138.1 | | | |
| HACT13.12 GM/M3 | 2000 | 83.7 | 85.7 | 87.0 | 86.5 | 88.3 | 89.7 | 92.1 | 95.0 | 97.7 | 100.6 | 100.0 | 99.2 | 137.5 | | | |
| (.01312 KG/M3) | 2500 | 83.5 | 85.6 | 87.1 | 87.6 | 89.2 | 90.1 | 91.7 | 95.4 | 98.6 | 99.7 | 99.4 | 99.0 | 137.4 | | | |
| FREQ. SHIFT | 3150 | 83.2 | 84.8 | 86.8 | 86.9 | 88.4 | 89.6 | 91.7 | 95.3 | 98.8 | 100.9 | 100.6 | 100.0 | 138.2 | | | |
| JET Q | 4000 | 82.1 | 85.2 | 86.7 | 87.5 | 89.1 | 89.7 | 91.3 | 95.5 | 97.3 | 100.2 | 100.4 | 101.0 | 137.9 | | | |
| DIAMETER RATIO | 6300 | 81.4 | 84.3 | 86.5 | 87.3 | 89.6 | 91.3 | 92.7 | 94.9 | 96.9 | 98.7 | 100.2 | 101.8 | 138.6 | | | |
| DF/DH 1 | 8000 | 81.0 | 83.1 | 85.1 | 86.9 | 89.4 | 91.1 | 92.7 | 94.9 | 96.9 | 98.7 | 100.2 | 101.8 | 138.4 | | | |
| | 10000 | 79.1 | 84.0 | 84.8 | 86.1 | 89.6 | 90.0 | 91.9 | 95.1 | 97.3 | 98.0 | 99.4 | 101.5 | 137.2 | | | |
| | 12500 | 76.5 | 81.5 | 83.6 | 85.1 | 87.4 | 88.8 | 90.8 | 93.3 | 95.4 | 96.3 | 98.0 | 99.5 | 136.6 | | | |
| | 16000 | 75.1 | 80.1 | 82.2 | 84.2 | 86.5 | 87.6 | 89.8 | 92.4 | 94.5 | 94.7 | 95.6 | 97.9 | 135.1 | | | |
| | 20000 | 72.0 | 76.6 | 78.9 | 80.8 | 85.1 | 85.4 | 87.7 | 89.3 | 93.0 | 91.7 | 93.1 | 95.0 | 133.0 | | | |
| | 25000 | 68.6 | 74.3 | 75.7 | 78.3 | 80.7 | 82.2 | 83.7 | 86.1 | 89.2 | 88.6 | 90.7 | 90.2 | 132.5 | | | |
| | 31500 | 65.8 | 71.9 | 74.5 | 76.5 | 79.0 | 80.0 | 80.9 | 83.8 | 86.6 | 84.9 | 87.3 | 88.5 | 131.0 | | | |
| | 40000 | 60.6 | 66.9 | 70.5 | 72.6 | 73.4 | 75.7 | 76.2 | 79.7 | 81.6 | 80.9 | 83.0 | 82.6 | 128.6 | | | |
| | 50000 | 54.7 | 60.3 | 64.4 | 65.8 | 65.6 | 69.0 | 69.4 | 72.5 | 74.2 | 74.2 | 77.3 | 76.3 | 127.7 | | | |
| | 63000 | 49.5 | 53.6 | 58.7 | 58.2 | 57.7 | 63.1 | 63.3 | 64.8 | 66.5 | 66.8 | 70.9 | 68.3 | 132.1 | | | |
| | 80000 | 45.8 | 49.1 | 55.4 | 52.8 | 51.8 | 60.2 | 59.5 | 57.1 | 59.2 | 61.6 | 67.4 | 61.3 | 151.8 | | | |
| OVERALL MEASURED | 94.3 | 96.7 | 98.2 | 98.9 | 100.9 | 102.0 | 103.7 | 106.7 | 109.4 | 112.5 | 114.9 | 116.1 | 115.0 | | | | |
| OVERALL CALCULATED | 107.0 | 109.3 | 111.1 | 111.5 | 113.3 | 114.2 | 115.8 | 119.1 | 122.0 | 124.8 | 125.9 | 126.8 | 125.4 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 322 ACQUSTIC RANGE 12.2m(40ft.) ARC
 SIZE MODEL-71.3cm²(11. lin²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROC. DATE - MONTH 8 DAY 24 HR. 12.1
59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA
RDG. NO. D.
RADIAL 150. FT.
VEHICLE (46. M)
CONFIG CELL41
LOC C41 AMECH CH
DATE 06-01-76
RUN CONF3LOWFLWC
TAPE X03220
BAR 29.3 HG
(98975. N/M2)
TAMB 63. DEG F
(290. DEG K)
TWET 61. DEG F
(289. DEG K)
HACT13.12 GM/M3
(.01312 KG/M3)
FREQ. SHIFT
JET B
DIAMETER RATIO
DF/DM 6.81 | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | PROC. DATE - MONTH 8 DAY 24 HR. 12.1 | | | | | | | | | | |
|---|--|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 81.1 | 84.9 | 87.6 | 86.4 | 88.5 | 89.1 | 90.3 | 92.4 | 95.6 | 100.7 | 105.1 | 107.8 | 107.6 | 153.0 |
| 63 | 83.1 | 85.2 | 87.2 | 86.9 | 88.5 | 89.4 | 90.8 | 94.4 | 97.9 | 103.7 | 108.2 | 109.6 | 108.9 | 155.1 |
| 80 | 84.2 | 85.7 | 87.2 | 88.0 | 89.9 | 91.2 | 92.4 | 95.5 | 99.2 | 106.1 | 110.3 | 111.7 | 110.0 | 157.0 |
| 100 | 85.3 | 87.6 | 87.8 | 89.1 | 91.0 | 92.3 | 93.7 | 96.9 | 100.6 | 106.7 | 110.9 | 112.8 | 110.6 | 157.9 |
| 125 | 87.1 | 88.4 | 89.6 | 90.4 | 92.0 | 93.4 | 95.0 | 98.4 | 101.6 | 107.2 | 111.4 | 112.8 | 111.1 | 158.3 |
| 160 | 89.2 | 89.9 | 91.7 | 91.7 | 93.3 | 94.4 | 96.3 | 99.2 | 101.7 | 106.8 | 109.5 | 109.9 | 109.4 | 156.7 |
| 200 | 88.2 | 89.8 | 92.3 | 92.1 | 93.2 | 94.8 | 96.2 | 99.6 | 102.5 | 106.4 | 107.6 | 108.7 | 107.0 | 155.7 |
| 250 | 88.9 | 90.6 | 90.9 | 91.9 | 93.3 | 95.4 | 96.8 | 99.4 | 102.7 | 106.2 | 106.6 | 108.6 | 105.1 | 154.8 |
| 315 | 88.9 | 90.9 | 92.2 | 91.7 | 93.6 | 94.9 | 97.3 | 100.2 | 103.0 | 105.8 | 103.2 | 104.4 | 103.2 | 154.0 |
| 400 | 88.8 | 90.8 | 92.3 | 92.9 | 94.5 | 95.3 | 97.8 | 100.6 | 103.8 | 104.9 | 104.6 | 104.3 | 102.8 | 154.0 |
| 500 | 88.5 | 90.6 | 92.9 | 93.1 | 95.0 | 95.3 | 97.8 | 100.6 | 104.1 | 106.2 | 105.9 | 105.3 | 103.8 | 154.8 |
| 630 | 87.6 | 90.2 | 92.2 | 92.2 | 93.8 | 94.9 | 97.0 | 100.2 | 102.7 | 105.5 | 105.7 | 106.4 | 104.4 | 154.6 |
| 800 | 87.5 | 90.6 | 92.1 | 92.9 | 94.4 | 95.1 | 96.7 | 100.9 | 102.8 | 104.7 | 106.1 | 107.8 | 105.6 | 155.0 |
| 1000 | 86.9 | 89.7 | 92.0 | 92.8 | 95.1 | 96.7 | 97.9 | 100.8 | 102.8 | 103.9 | 106.8 | 108.0 | 106.7 | 155.3 |
| 1250 | 86.6 | 88.7 | 90.8 | 92.5 | 95.1 | 96.7 | 98.4 | 100.5 | 102.5 | 104.4 | 105.8 | 107.5 | 107.0 | 155.1 |
| 1600 | 85.0 | 89.9 | 90.7 | 92.0 | 95.5 | 95.9 | 97.8 | 101.0 | 103.2 | 103.9 | 105.3 | 107.4 | 107.1 | 155.1 |
| 2000 | 82.8 | 87.8 | 89.9 | 91.4 | 93.7 | 95.0 | 97.1 | 99.6 | 101.7 | 102.6 | 104.2 | 105.8 | 106.0 | 153.9 |
| 2500 | 82.0 | 87.0 | 89.2 | 91.1 | 93.4 | 94.5 | 96.7 | 99.4 | 101.4 | 101.7 | 102.5 | 104.8 | 105.5 | 153.3 |
| 3150 | 79.8 | 84.3 | 86.7 | 88.5 | 92.8 | 93.1 | 95.4 | 97.1 | 100.7 | 99.5 | 100.8 | 102.7 | 103.4 | 151.8 |
| 4000 | 77.4 | 83.2 | 84.6 | 87.2 | 89.6 | 91.1 | 92.6 | 94.9 | 98.1 | 97.5 | 99.6 | 99.1 | 100.7 | 149.7 |
| 5000 | 76.7 | 82.7 | 85.4 | 87.3 | 89.9 | 90.8 | 91.8 | 94.6 | 97.4 | 95.7 | 98.2 | 99.3 | 99.8 | 149.2 |
| 6300 | 74.1 | 80.4 | 84.0 | 86.1 | 86.9 | 89.2 | 89.7 | 93.2 | 95.1 | 94.4 | 96.5 | 96.1 | 97.4 | 147.6 |
| 8000 | 71.6 | 77.1 | 81.3 | 82.6 | 82.5 | 85.8 | 86.3 | 89.4 | 91.1 | 91.1 | 94.2 | 93.2 | 93.6 | 145.2 |
| 10000 | 71.4 | 75.6 | 80.6 | 80.1 | 79.6 | 85.1 | 85.2 | 86.7 | 88.4 | 88.4 | 88.7 | 92.6 | 90.3 | 144.4 |
| 12500 | 75.2 | 78.5 | 84.8 | 82.2 | 81.2 | 89.6 | 88.9 | 86.5 | 88.6 | 91.0 | 96.9 | 90.8 | 93.1 | 148.8 |
| OVERALL CALCULATED | 99.5 | 102.0 | 103.7 | 104.4 | 106.5 | 107.7 | 109.3 | 112.3 | 115.0 | 117.9 | 120.2 | 121.4 | 120.2 | 168.3 |
| PROB | 108.3 | 112.3 | 114.3 | 115.7 | 117.9 | 119.1 | 120.8 | 123.6 | 126.2 | 127.3 | 128.8 | 130.1 | 130.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 322 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in.²)

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | HFA
(0. RAD/SEC) | NFK
(0. RAD/SEC) | MFD
(785. RAD/SEC) | AIRFLOW RATIO
WF/NM 6.81 | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAT) | | | | | | | | | |
|--------------------|----------------------------------|----------------------|----------------------|------------------------|-----------------------------|---|------|------|------|------|------|------|------|------|------|
| | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. |
| 63 | 54.9 | 58.3 | 59.1 | 61.6 | 62.1 | 65.1 | 64.9 | 65.9 | 67.6 | 70.1 | 74.1 | 77.0 | 77.4 | 73.7 | 74.9 |
| 80 | 55.9 | 59.0 | 61.6 | 63.1 | 65.4 | 66.9 | 67.9 | 69.2 | 71.9 | 74.9 | 79.3 | 81.9 | 81.1 | 75.8 | 76.2 |
| 100 | 56.9 | 60.8 | 62.1 | 64.2 | 66.4 | 67.9 | 70.4 | 73.3 | 75.8 | 80.2 | 82.8 | 81.9 | 76.5 | 74.5 | |
| 125 | 58.5 | 61.4 | 63.8 | 65.3 | 67.4 | 68.9 | 71.6 | 74.1 | 75.8 | 79.7 | 80.7 | 78.7 | 74.5 | 71.7 | |
| 160 | 60.4 | 62.9 | 65.8 | 66.6 | 68.6 | 69.8 | 71.3 | 74.3 | 76.7 | 79.1 | 78.6 | 77.3 | 71.7 | 69.3 | |
| 200 | 59.3 | 62.5 | 66.2 | 66.8 | 68.2 | 70.5 | 71.7 | 73.9 | 76.4 | 78.8 | 77.0 | 74.8 | 69.3 | 66.7 | |
| 250 | 59.6 | 63.2 | 66.6 | 66.4 | 68.3 | 69.8 | 72.1 | 74.5 | 76.4 | 78.0 | 75.7 | 72.2 | 66.7 | 64.2 | |
| 315 | 59.4 | 63.2 | 65.7 | 66.0 | 68.3 | 69.9 | 71.4 | 74.6 | 77.0 | 78.8 | 74.6 | 71.5 | 65.4 | 62.9 | |
| 400 | 58.8 | 62.7 | 65.5 | 66.9 | 68.9 | 69.9 | 71.4 | 74.6 | 77.0 | 77.6 | 75.4 | 71.8 | 65.5 | 63.0 | |
| 500 | 58.0 | 62.0 | 64.6 | 66.8 | 69.1 | 69.6 | 71.1 | 74.3 | 76.9 | 77.6 | 75.4 | 71.8 | 65.5 | 63.0 | |
| 630 | 56.4 | 61.0 | 64.5 | 65.4 | 67.5 | 68.8 | 70.7 | 73.4 | 75.0 | 76.4 | 74.5 | 72.0 | 64.7 | 62.2 | |
| 800 | 55.4 | 60.7 | 63.7 | 65.4 | 67.6 | 68.3 | 69.8 | 73.4 | 74.8 | 74.8 | 74.0 | 72.2 | 64.1 | 61.6 | |
| 1000 | 53.7 | 59.0 | 62.8 | 64.6 | 67.5 | 68.3 | 69.8 | 73.6 | 73.6 | 73.1 | 73.6 | 71.0 | 63.2 | 60.7 | |
| 1250 | 52.1 | 56.8 | 60.6 | 63.5 | 66.7 | 68.3 | 69.9 | 71.5 | 72.3 | 72.5 | 71.3 | 68.8 | 60.9 | 58.4 | |
| 1600 | 48.5 | 56.4 | 59.1 | 61.6 | 65.8 | 66.4 | 68.1 | 70.6 | 71.6 | 70.3 | 68.2 | 66.2 | 57.3 | 54.8 | |
| 2000 | 44.0 | 52.3 | 56.6 | 59.5 | 62.5 | 64.1 | 65.9 | 67.7 | 68.4 | 67.1 | 65.4 | 61.6 | 51.8 | 49.3 | |
| 2500 | 39.8 | 48.8 | 53.4 | 56.9 | 60.1 | 61.5 | 63.4 | 65.2 | 65.7 | 63.4 | 60.4 | 56.2 | 44.8 | 42.3 | |
| 3150 | 32.2 | 41.6 | 47.0 | 50.8 | 56.1 | 56.7 | 58.7 | 59.3 | 61.0 | 56.7 | 53.3 | 47.2 | 32.4 | 30.0 | |
| 4000 | 21.8 | 33.8 | 39.0 | 44.0 | 47.7 | 49.6 | 50.7 | 51.7 | 52.5 | 48.1 | 44.0 | 33.1 | 14.2 | 11.7 | |
| 5000 | 16.4 | 29.4 | 36.4 | 41.0 | 45.0 | 46.4 | 46.9 | 48.3 | 48.4 | 42.4 | 37.9 | 27.2 | 4.4 | 2.9 | |
| 6300 | 0.1 | 15.6 | 25.0 | 30.5 | 33.3 | 36.1 | 36.0 | 37.6 | 36.0 | 29.6 | 22.4 | 6.1 | | | |
| 8000 | | 6.8 | 12.9 | 15.4 | 19.2 | 19.7 | 19.2 | 19.7 | 16.6 | 8.7 | | | | | |
| 10000 | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 69.3 | 73.1 | 75.9 | 77.3 | 79.6 | 80.9 | 82.4 | 85.1 | 87.1 | 89.6 | 90.5 | 89.2 | 84.0 | 81.5 | |
| PND8 | 72.9 | 77.9 | 81.2 | 83.2 | 86.5 | 87.6 | 89.2 | 91.7 | 93.2 | 93.9 | 93.2 | 91.2 | 84.4 | 81.9 | |

VEHICLE CELL 41
 CONFIG MCA1
 LOC C41 ANECH CH
 DATE 04-01-76
 RUN CONFLOWELMC
 TAPE X03220
 FAN TIP SPEED FT/SEC

ANEC HOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 322 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(.513sq.ft.) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70. PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 10.7
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. P=1
 (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.)

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | P=1 |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
| 100 | 62.9 | 71.7 | 69.7 | 70.5 | 71.5 | 71.9 | 72.0 | 72.5 | 73.4 | 76.0 | 80.2 | 78.6 | 80.4 | 80.4 | | | | | | 116.6 |
| 125 | 62.6 | 67.4 | 67.6 | 69.4 | 70.5 | 71.9 | 71.5 | 73.2 | 72.4 | 72.9 | 79.9 | 80.6 | 80.4 | 80.4 | | | | | | 116.3 |
| 160 | 63.4 | 65.7 | 67.2 | 67.7 | 70.0 | 69.4 | 70.0 | 71.7 | 73.7 | 77.5 | 90.7 | 81.1 | 82.4 | 82.4 | | | | | | 117.1 |
| 200 | 65.0 | 66.5 | 68.5 | 68.6 | 70.4 | 70.8 | 71.7 | 74.8 | 76.5 | 79.1 | 83.1 | 86.5 | 87.0 | 87.0 | | | | | | 122.2 |
| 230 | 65.8 | 68.3 | 68.8 | 68.9 | 71.2 | 72.1 | 74.2 | 75.4 | 77.3 | 80.9 | 86.1 | 97.8 | 88.3 | 88.3 | | | | | | 124.2 |
| 315 | 66.9 | 69.2 | 70.2 | 72.0 | 74.1 | 73.4 | 74.8 | 77.7 | 79.4 | 83.0 | 87.5 | 90.1 | 90.4 | 90.4 | | | | | | 125.4 |
| 400 | 68.2 | 70.2 | 72.2 | 72.5 | 73.8 | 74.7 | 75.8 | 78.7 | 81.0 | 84.5 | 89.5 | 91.2 | 90.7 | 90.7 | | | | | | 125.4 |
| 500 | 68.6 | 70.3 | 71.8 | 72.8 | 74.2 | 75.5 | 76.9 | 79.3 | 81.5 | 85.4 | 89.1 | 91.0 | 90.5 | 90.5 | | | | | | 125.4 |
| 630 | 69.6 | 71.4 | 72.6 | 74.2 | 75.0 | 76.6 | 78.3 | 81.2 | 82.6 | 85.5 | 88.7 | 90.3 | 88.6 | 88.6 | | | | | | 125.1 |
| 800 | 70.4 | 72.7 | 73.9 | 75.4 | 76.3 | 77.4 | 78.5 | 81.4 | 83.7 | 86.2 | 89.2 | 89.1 | 86.9 | 86.9 | | | | | | 125.1 |
| 1000 | 71.7 | 73.2 | 75.0 | 75.8 | 76.9 | 78.0 | 79.4 | 82.3 | 83.5 | 86.1 | 88.5 | 86.9 | 86.7 | 86.7 | | | | | | 124.5 |
| 1250 | 71.5 | 73.3 | 76.6 | 75.9 | 76.7 | 78.0 | 79.2 | 82.9 | 84.8 | 86.4 | 88.1 | 86.8 | 83.6 | 83.6 | | | | | | 124.7 |
| 1600 | 72.1 | 74.9 | 76.2 | 76.5 | 77.8 | 79.9 | 79.6 | 82.2 | 84.9 | 87.5 | 88.7 | 87.9 | 85.7 | 85.7 | | | | | | 125.4 |
| 2000 | 72.9 | 76.0 | 78.5 | 77.3 | 78.3 | 79.5 | 80.1 | 83.3 | 84.7 | 87.8 | 89.5 | 89.4 | 86.7 | 86.7 | | | | | | 126.1 |
| 2500 | 73.8 | 76.3 | 79.6 | 79.6 | 80.9 | 80.3 | 80.9 | 83.4 | 85.1 | 86.4 | 89.4 | 90.8 | 88.8 | 88.8 | | | | | | 126.1 |
| 3150 | 73.0 | 77.5 | 80.8 | 79.3 | 80.2 | 80.5 | 81.2 | 83.6 | 85.1 | 86.4 | 88.1 | 89.8 | 88.3 | 88.3 | | | | | | 126.3 |
| 4000 | 72.0 | 76.8 | 80.1 | 78.9 | 80.2 | 80.3 | 81.4 | 83.9 | 84.6 | 86.2 | 86.4 | 87.5 | 86.1 | 86.1 | | | | | | 125.5 |
| 5000 | 71.4 | 76.7 | 78.7 | 79.2 | 80.1 | 80.4 | 81.6 | 84.2 | 85.0 | 85.3 | 86.0 | 87.4 | 86.2 | 86.2 | | | | | | 125.4 |
| 6300 | 69.2 | 74.5 | 77.6 | 78.6 | 79.9 | 81.0 | 81.7 | 83.3 | 85.3 | 85.2 | 85.4 | 84.3 | 83.6 | 83.6 | | | | | | 125.0 |
| 8000 | 68.0 | 72.6 | 75.6 | 77.6 | 79.7 | 80.3 | 81.5 | 83.6 | 85.1 | 85.5 | 85.4 | 84.3 | 83.6 | 83.6 | | | | | | 124.5 |
| 10000 | 66.1 | 72.5 | 75.3 | 76.3 | 79.1 | 79.0 | 80.4 | 82.8 | 85.3 | 84.7 | 83.9 | 82.8 | 82.8 | 82.8 | | | | | | 123.2 |
| 12500 | 64.0 | 70.5 | 73.2 | 74.6 | 76.9 | 78.3 | 79.6 | 81.9 | 82.9 | 82.6 | 81.8 | 80.8 | 81.0 | 81.0 | | | | | | 122.6 |
| 16000 | 62.4 | 68.1 | 71.3 | 73.5 | 75.8 | 76.6 | 78.3 | 80.2 | 82.6 | 80.3 | 80.2 | 78.7 | 78.9 | 78.9 | | | | | | 121.1 |
| 20000 | 59.8 | 64.9 | 68.8 | 70.6 | 74.2 | 74.5 | 75.8 | 76.9 | 80.3 | 78.3 | 76.7 | 75.8 | 76.2 | 76.2 | | | | | | 118.9 |
| 25000 | 56.4 | 62.7 | 65.1 | 67.7 | 70.6 | 71.4 | 71.6 | 73.7 | 76.6 | 74.3 | 73.9 | 70.4 | 71.2 | 71.2 | | | | | | 117.9 |
| 31500 | 54.0 | 60.8 | 64.0 | 65.2 | 68.7 | 68.4 | 69.1 | 71.5 | 72.8 | 70.1 | 69.1 | 67.9 | 68.6 | 68.6 | | | | | | 116.7 |
| 40000 | 49.3 | 55.4 | 60.6 | 60.8 | 64.2 | 63.9 | 64.9 | 67.2 | 68.4 | 66.0 | 64.3 | 61.9 | 61.9 | 61.9 | | | | | | 114.0 |
| 50000 | 44.2 | 49.3 | 54.8 | 54.8 | 57.7 | 58.0 | 58.5 | 60.1 | 60.3 | 58.9 | 57.2 | 54.2 | 53.8 | 53.8 | | | | | | 114.0 |
| 63000 | 39.3 | 43.0 | 48.7 | 48.4 | 52.9 | 52.5 | 53.2 | 52.4 | 53.0 | 52.6 | 50.6 | 45.3 | 46.0 | 46.0 | | | | | | 119.6 |
| 80000 | 36.5 | 39.5 | 45.9 | 42.8 | 50.2 | 50.4 | 50.0 | 45.4 | 46.5 | 49.4 | 47.5 | 40.1 | 41.9 | 41.9 | | | | | | 138.3 |
| OVERALL MEASURED | 83.3 | 86.9 | 89.4 | 89.6 | 91.1 | 91.8 | 92.7 | 95.2 | 96.9 | 98.4 | 100.6 | 101.4 | 100.3 | 100.3 | | | | | | |
| OVERALL CALCULATED | 96.4 | 100.3 | 103.0 | 102.6 | 103.8 | 104.3 | 105.2 | 107.7 | 109.2 | 110.8 | 112.8 | 113.7 | 112.4 | 112.4 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **323** ACQUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 6 DAY 24 HR. 12.1

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP, DEG. F, 70 PERCENT REL. HUM. DAY - JEROTS)

ANGLES FROM IMLEY IN DEGREES (AND RADIANS)

| FREQ. | 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. | | | | | | | | | | | | | | | | | | |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| | (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.) | (0.) | (0.) |
| 50 | 72.1 | 74.4 | 75.4 | 77.2 | 79.3 | 78.6 | 80.0 | 82.9 | 84.6 | 88.2 | 92.6 | 95.3 | 95.6 | | | | | | |
| 63 | 73.4 | 75.4 | 77.4 | 77.7 | 79.0 | 79.9 | 81.0 | 83.9 | 86.2 | 89.7 | 94.7 | 96.4 | 95.9 | | | | | | |
| 80 | 74.0 | 75.5 | 77.0 | 78.0 | 79.4 | 80.7 | 82.1 | 84.5 | 86.7 | 90.6 | 94.3 | 96.2 | 95.7 | | | | | | |
| 100 | 74.8 | 76.6 | 77.8 | 79.4 | 80.2 | 81.8 | 83.5 | 86.4 | 87.8 | 90.7 | 93.9 | 95.3 | 93.8 | | | | | | |
| 125 | 75.6 | 77.9 | 79.1 | 80.6 | 81.5 | 82.6 | 83.7 | 86.6 | 88.9 | 91.4 | 94.4 | 94.3 | 92.1 | | | | | | |
| 160 | 76.9 | 78.4 | 80.2 | 81.0 | 82.1 | 83.2 | 84.6 | 87.5 | 88.7 | 91.3 | 93.7 | 92.1 | 89.9 | | | | | | |
| 200 | 77.7 | 78.5 | 81.3 | 81.7 | 83.0 | 85.1 | 84.8 | 87.4 | 90.2 | 92.7 | 93.3 | 92.0 | 88.8 | | | | | | |
| 250 | 77.4 | 80.1 | 81.6 | 81.7 | 83.0 | 85.1 | 84.8 | 87.4 | 90.2 | 92.7 | 93.9 | 93.1 | 90.9 | | | | | | |
| 315 | 78.2 | 81.2 | 83.7 | 82.5 | 83.6 | 84.7 | 85.3 | 88.5 | 90.0 | 93.0 | 94.7 | 94.7 | 91.9 | | | | | | |
| 400 | 79.0 | 81.6 | 84.8 | 84.9 | 86.2 | 85.6 | 86.2 | 88.6 | 90.3 | 91.7 | 94.6 | 96.0 | 94.1 | | | | | | |
| 500 | 78.3 | 82.8 | 85.4 | 84.6 | 85.5 | 85.8 | 86.5 | 88.9 | 90.3 | 91.7 | 93.4 | 95.0 | 93.6 | | | | | | |
| 630 | 77.4 | 82.2 | 85.4 | 84.2 | 85.5 | 85.7 | 86.8 | 89.2 | 89.9 | 91.5 | 91.7 | 92.9 | 91.4 | | | | | | |
| 800 | 76.8 | 82.1 | 84.1 | 84.6 | 85.4 | 85.8 | 86.9 | 89.6 | 90.3 | 90.7 | 91.4 | 92.8 | 91.6 | | | | | | |
| 1000 | 74.7 | 80.0 | 83.0 | 84.0 | 85.4 | 86.5 | 87.1 | 88.8 | 90.8 | 91.2 | 91.1 | 90.0 | 89.2 | | | | | | |
| 1250 | 73.6 | 78.2 | 81.3 | 83.3 | 85.4 | 86.0 | 87.1 | 89.3 | 90.8 | 91.2 | 91.1 | 90.0 | 89.2 | | | | | | |
| 1600 | 72.0 | 78.4 | 81.2 | 82.2 | 85.1 | 84.9 | 86.3 | 88.7 | 91.2 | 90.6 | 89.8 | 88.7 | 88.7 | | | | | | |
| 2000 | 70.3 | 76.8 | 79.5 | 80.9 | 83.2 | 84.6 | 85.9 | 88.2 | 89.2 | 88.9 | 88.0 | 87.1 | 87.3 | | | | | | |
| 2500 | 69.3 | 75.1 | 78.3 | 80.4 | 82.7 | 83.6 | 85.3 | 87.2 | 89.5 | 87.3 | 87.1 | 85.6 | 85.8 | | | | | | |
| 3150 | 67.6 | 72.6 | 76.5 | 78.4 | 81.9 | 82.2 | 83.3 | 84.7 | 88.1 | 86.1 | 84.5 | 83.6 | 84.0 | | | | | | |
| 4000 | 65.3 | 71.6 | 74.0 | 76.5 | 79.5 | 80.2 | 80.5 | 82.6 | 85.5 | 83.2 | 82.7 | 79.3 | 80.1 | | | | | | |
| 5000 | 64.8 | 71.6 | 74.8 | 76.0 | 79.5 | 79.2 | 80.0 | 82.3 | 83.6 | 81.0 | 79.9 | 78.8 | 79.5 | | | | | | |
| 6300 | 62.9 | 68.9 | 74.1 | 74.3 | 77.7 | 77.4 | 78.4 | 80.7 | 81.9 | 79.5 | 77.8 | 75.4 | 75.4 | | | | | | |
| 8000 | 61.1 | 66.2 | 71.2 | 71.7 | 74.6 | 74.9 | 75.4 | 77.0 | 77.2 | 75.8 | 74.1 | 71.1 | 70.7 | | | | | | |
| 10000 | 61.3 | 65.0 | 70.6 | 70.3 | 74.8 | 74.5 | 75.1 | 74.4 | 74.9 | 74.5 | 72.5 | 67.2 | 68.0 | | | | | | |
| 12500 | 65.9 | 69.0 | 75.3 | 72.2 | 79.7 | 79.8 | 79.4 | 74.8 | 75.9 | 78.8 | 76.9 | 69.3 | 71.3 | | | | | | |
| OVERALL CALCULATED | 88.5 | 92.1 | 94.8 | 95.0 | 96.7 | 97.3 | 98.3 | 100.7 | 102.6 | 103.7 | 105.5 | 106.2 | 105.0 | | | | | | |
| PMDB | 96.4 | 101.3 | 106.3 | 105.5 | 107.7 | 108.3 | 109.5 | 111.7 | 113.7 | 113.1 | 113.6 | 113.1 | 112.4 | | | | | | |

NO EGA
RDPG. NO. G.
RADIAL 150. FT.
(46. M)
VEHICLE CELL41
CONFIG MC41
LOC C41 ANECH CH
DATE 06-01-76
RUN CONF3LOWFLWC
TAPE X03230
BAR 29.3 MG
(98975. N/M2)
TAMB 61. DEG F
(289. DEG K)
TWET 59. DEG F
(288. DEG K)
HACTT2.09 GM/MS
(.01209 KG/M3)
FREQ. SHIFT
JET 8
DIAMETER RATIO
DFT/DM 6.81

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 323 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(151in.)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|-------|--------------------|---|--------|--------|--------|-----------------------------|--------|--------|--------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIANES) | | | | F, 70 PERCENT REL. HUM. DAY | | | |
| | | 90. | 110. | 120. | 130. | 140. | 150. | 160. | |
| | | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| | | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| FREQ. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. |
| | (731.52 M) | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) |
| 50 | 43.9 | 47.8 | 49.9 | 52.4 | 54.9 | 56.6 | 58.1 | 59.1 | 61.6 |
| 63 | 45.1 | 48.7 | 51.8 | 52.9 | 54.6 | 55.6 | 56.6 | 59.1 | 63.1 |
| 80 | 45.6 | 48.7 | 51.4 | 53.1 | 54.9 | 56.4 | 57.6 | 59.6 | 61.1 |
| 100 | 46.4 | 49.8 | 52.1 | 54.4 | 55.7 | 57.4 | 58.9 | 61.4 | 62.1 |
| 125 | 47.0 | 50.9 | 53.3 | 55.6 | 56.9 | 58.1 | 59.1 | 61.6 | 63.1 |
| 160 | 48.2 | 51.4 | 54.3 | 55.8 | 57.3 | 58.6 | 59.8 | 62.3 | 64.2 |
| 200 | 47.8 | 51.3 | 55.7 | 55.8 | 57.0 | 58.3 | 59.5 | 62.8 | 63.9 |
| 250 | 48.1 | 52.7 | 55.1 | 56.2 | 58.0 | 59.2 | 59.7 | 61.9 | 63.9 |
| 315 | 48.6 | 53.4 | 57.2 | 56.8 | 58.3 | 59.6 | 60.1 | 62.8 | 63.4 |
| 400 | 49.0 | 53.4 | 58.0 | 58.9 | 60.7 | 60.2 | 60.7 | 62.6 | 63.5 |
| 500 | 47.6 | 54.3 | 58.9 | 58.3 | 59.6 | 60.1 | 60.6 | 62.5 | 63.1 |
| 630 | 46.2 | 53.0 | 57.7 | 57.4 | 59.2 | 59.5 | 60.5 | 62.6 | 62.2 |
| 800 | 44.6 | 52.2 | 55.7 | 57.2 | 58.6 | 59.1 | 60.1 | 62.2 | 61.9 |
| 1000 | 41.5 | 49.2 | 53.9 | 55.9 | 57.8 | 59.1 | 59.6 | 60.6 | 61.6 |
| 1250 | 39.1 | 46.3 | 51.1 | 54.2 | 56.9 | 57.7 | 58.7 | 60.2 | 60.6 |
| 1600 | 35.6 | 44.9 | 49.6 | 51.9 | 55.4 | 55.4 | 56.6 | 58.4 | 59.6 |
| 2000 | 31.5 | 41.4 | 46.2 | 49.0 | 52.1 | 53.7 | 54.7 | 56.3 | 55.9 |
| 2500 | 27.1 | 36.8 | 42.5 | 46.3 | 49.4 | 50.5 | 52.0 | 53.0 | 53.8 |
| 3150 | 20.0 | 29.9 | 36.8 | 40.6 | 45.2 | 45.8 | 46.8 | 48.9 | 48.4 |
| 4000 | 9.7 | 22.1 | 28.4 | 33.3 | 37.6 | 38.8 | 39.4 | 39.9 | 33.7 |
| 5000 | 4.5 | 18.3 | 25.8 | 29.7 | 34.7 | 34.8 | 35.1 | 36.0 | 34.6 |
| 6300 | | 4.1 | 15.0 | 18.8 | 24.0 | 24.4 | 24.8 | 25.2 | 22.8 |
| 8000 | | | | 2.0 | 7.5 | 8.6 | 8.3 | 7.3 | 2.7 |
| 10000 | | | | | | | | | |
| 12500 | | | | | | | | | |
| PMDB | OVERALL CALCULATED | 58.4 | 63.3 | 67.1 | 68.0 | 69.8 | 70.7 | 71.4 | 73.6 |
| | | 61.5 | 67.8 | 72.5 | 73.6 | 76.1 | 76.8 | 77.7 | 79.5 |
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VEHICLE CELL41

CONFIG NC41

LDC C41 ANECH CH

DATE 05-01-76

RUN CONF3LOWFLWC

TAPE X03230

FAN TIP SPEED FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION: **3** TEST POINT **3-23** ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JEMOTS) PROC. DATE - MONTH 8 DAY 24 HR. 10.7

| ROG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| RADIAL (12. M) | 0. | (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) | (0.0) | (0.0) |
| VEHICLE CELL41 | 50 | 62.6 | 71.7 | 69.7 | 70.7 | 71.8 | 72.2 | 71.8 | 72.7 | 72.9 | 72.9 | 75.5 | 79.9 | 78.4 | 80.7 | | | 116.5 |
| CONF13 NC41 | 63 | 62.8 | 66.9 | 67.9 | 69.7 | 70.7 | 71.4 | 71.7 | 73.7 | 73.7 | 72.2 | 72.2 | 79.6 | 80.3 | 80.1 | | | 116.1 |
| LOC C41 ANECH CH | 100 | 64.1 | 65.7 | 67.9 | 68.2 | 69.8 | 69.9 | 70.5 | 72.2 | 73.7 | 73.7 | 77.5 | 80.7 | 81.4 | 82.9 | | | 117.3 |
| DATE 06-01-76 | 125 | 65.8 | 67.8 | 69.3 | 69.6 | 71.2 | 72.6 | 74.5 | 76.1 | 77.3 | 77.0 | 79.4 | 82.8 | 86.8 | 87.3 | | | 120.8 |
| RUN CONF130-FLWC | 250 | 67.2 | 69.4 | 70.9 | 72.7 | 74.3 | 75.2 | 76.6 | 78.5 | 79.9 | 81.2 | 83.2 | 86.1 | 87.5 | 88.3 | | | 122.2 |
| TAPE X03240 | 315 | 68.4 | 70.2 | 72.2 | 72.5 | 74.1 | 75.2 | 76.6 | 79.0 | 81.0 | 82.8 | 84.8 | 87.2 | 90.6 | 90.4 | | | 124.4 |
| BAR 29.3 HG | 400 | 69.0 | 70.5 | 72.0 | 72.8 | 74.4 | 75.8 | 76.9 | 79.8 | 81.5 | 83.5 | 85.1 | 88.3 | 90.2 | 89.5 | | | 125.0 |
| (98975. N/M2) | 630 | 70.1 | 71.6 | 72.6 | 74.2 | 75.3 | 76.6 | 78.3 | 80.9 | 82.9 | 85.5 | 88.4 | 89.6 | 87.4 | | | | 124.8 |
| TAMB 61. DEG F | 800 | 70.6 | 72.9 | 73.9 | 75.2 | 76.3 | 77.4 | 79.3 | 81.9 | 83.7 | 86.0 | 88.4 | 88.4 | 85.9 | | | | 124.7 |
| (289. DEG K) | 1000 | 71.3 | 73.6 | 76.6 | 76.4 | 77.2 | 78.6 | 79.4 | 83.1 | 84.8 | 86.6 | 87.1 | 87.0 | 86.1 | | | | 124.3 |
| (288. DEG K) | 1250 | 71.6 | 74.9 | 76.4 | 76.7 | 78.1 | 79.2 | 81.1 | 83.0 | 84.7 | 86.8 | 88.2 | 87.9 | 85.4 | | | | 125.2 |
| HACT12.09 GH/M3 | 2000 | 73.2 | 76.2 | 78.5 | 77.3 | 78.1 | 80.4 | 81.2 | 83.4 | 85.3 | 86.4 | 87.6 | 89.5 | 87.8 | | | | 126.0 |
| (.01209 KG/M3) | 2500 | 73.5 | 76.8 | 79.3 | 79.1 | 79.9 | 80.9 | 83.1 | 85.3 | 86.4 | 86.4 | 86.8 | 88.8 | 87.3 | | | | 125.7 |
| FREQ. SHIFT | 3150 | 72.7 | 77.5 | 80.1 | 79.1 | 79.4 | 80.3 | 81.2 | 83.9 | 85.1 | 86.4 | 85.4 | 86.8 | 85.6 | | | | 125.2 |
| JET | 4000 | 72.0 | 76.8 | 78.1 | 78.0 | 79.8 | 81.2 | 81.6 | 84.0 | 85.7 | 85.6 | 85.0 | 86.9 | 84.9 | | | | 125.2 |
| DIAMETER RATIO | 5000 | 70.9 | 75.9 | 78.2 | 79.0 | 79.4 | 80.6 | 81.7 | 83.6 | 85.9 | 85.3 | 84.2 | 84.3 | 82.6 | | | | 125.9 |
| DF/DH 1 | 6300 | 68.7 | 74.5 | 77.3 | 78.3 | 79.4 | 81.0 | 82.2 | 83.8 | 86.1 | 85.7 | 85.1 | 85.2 | 83.8 | | | | 125.7 |
| | 8000 | 67.7 | 72.8 | 75.1 | 77.4 | 79.5 | 80.6 | 81.7 | 83.6 | 85.9 | 85.3 | 84.2 | 84.3 | 82.6 | | | | 125.9 |
| | 10000 | 65.9 | 72.3 | 75.1 | 76.1 | 79.1 | 79.3 | 80.9 | 83.3 | 85.8 | 85.2 | 82.9 | 83.3 | 81.5 | | | | 125.7 |
| | 12500 | 64.0 | 70.0 | 73.2 | 74.4 | 77.2 | 78.0 | 80.1 | 81.6 | 83.9 | 82.9 | 81.3 | 81.6 | 79.5 | | | | 123.4 |
| | 16000 | 62.1 | 68.4 | 71.1 | 73.5 | 76.0 | 76.9 | 78.3 | 80.2 | 82.8 | 80.8 | 79.9 | 79.4 | 78.1 | | | | 122.7 |
| | 20000 | 59.3 | 65.4 | 68.5 | 70.6 | 74.2 | 74.2 | 76.3 | 77.7 | 80.6 | 78.6 | 76.2 | 76.3 | 75.5 | | | | 118.7 |
| | 25000 | 56.4 | 63.5 | 65.6 | 67.2 | 70.4 | 70.9 | 71.9 | 73.2 | 76.6 | 74.0 | 73.6 | 71.1 | 71.2 | | | | 118.2 |
| | 31500 | 53.2 | 60.8 | 64.5 | 65.7 | 68.7 | 68.4 | 69.1 | 71.5 | 73.8 | 69.9 | 68.8 | 69.2 | 67.9 | | | | 116.8 |
| | 40000 | 49.3 | 55.9 | 60.6 | 61.3 | 64.4 | 64.2 | 64.9 | 67.5 | 68.6 | 65.7 | 64.3 | 62.6 | 61.9 | | | | 114.1 |
| | 50000 | 44.2 | 49.6 | 54.6 | 54.6 | 57.7 | 58.3 | 58.7 | 59.6 | 60.6 | 59.4 | 57.2 | 54.9 | 53.5 | | | | 114.1 |
| | 63000 | 39.6 | 43.5 | 48.4 | 47.9 | 53.1 | 52.8 | 53.2 | 52.4 | 53.2 | 52.6 | 50.9 | 46.3 | 46.0 | | | | 114.1 |
| | 80000 | 36.5 | 39.8 | 46.2 | 42.8 | 50.2 | 50.4 | 50.0 | 45.6 | 46.5 | 49.4 | 47.8 | 40.4 | 42.1 | | | | 119.6 |
| OVERALL MEASURED | | 83.3 | 87.0 | 89.2 | 89.5 | 90.9 | 91.8 | 93.0 | 95.3 | 97.2 | 98.3 | 99.8 | 100.9 | 99.8 | | | | 138.1 |
| OVERALL CALCULATED | | 96.2 | 100.3 | 102.7 | 102.4 | 103.6 | 104.3 | 105.3 | 107.7 | 109.5 | 110.7 | 111.7 | 113.1 | 111.7 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 324 ACQUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO. EGA | MUG. NO. | G. | RADIAL 150. FT. | VEHICLE | CELL#1 | CONFIG | LOC | DATE | RUN | CONFL | OFLWC | TAPE | BAR | TAMP | TWET | WACT | FREQ. | SHIFT | JET | DIAMETER RATIO | BF/DW | PROC. DATE - MONTH 8 DAY 24 HR. 12.1 | | | PML |
|---------|--------------------|------|-----------------|---------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----------------|-------|--------------------------------------|-----|-----|-----|
| | | | | | | | | | | | | | | | | | | | | | | 40. | 50. | 60. | |
| | 50 | 72.5 | 74.6 | 76.1 | 77.9 | 79.5 | 79.6 | 80.5 | 83.7 | 85.1 | 87.9 | 89.5 | 93.9 | 95.9 | 95.7 | 141.7 | | | | | | | | | |
| | 63 | 73.6 | 75.4 | 77.4 | 77.7 | 79.3 | 80.4 | 81.8 | 84.2 | 86.2 | 89.5 | 93.9 | 95.9 | 95.7 | 141.7 | | | | | | | | | | |
| | 100 | 74.2 | 75.7 | 77.2 | 78.0 | 79.6 | 81.0 | 82.1 | 85.0 | 86.7 | 90.3 | 93.5 | 95.4 | 94.7 | 141.5 | | | | | | | | | | |
| | 125 | 75.3 | 76.8 | 77.8 | 79.4 | 80.5 | 81.8 | 83.5 | 86.1 | 88.1 | 90.7 | 93.6 | 94.8 | 92.6 | 141.6 | | | | | | | | | | |
| | 160 | 77.2 | 78.9 | 80.4 | 80.7 | 82.1 | 83.4 | 84.6 | 87.7 | 89.4 | 90.8 | 92.7 | 91.9 | 89.4 | 140.9 | | | | | | | | | | |
| | 200 | 76.5 | 78.8 | 81.8 | 81.6 | 82.4 | 83.8 | 84.7 | 88.3 | 90.0 | 91.9 | 92.3 | 92.2 | 89.3 | 141.3 | | | | | | | | | | |
| | 315 | 78.4 | 81.4 | 83.7 | 82.5 | 83.3 | 84.4 | 86.3 | 88.2 | 90.0 | 92.0 | 93.7 | 93.9 | 91.7 | 142.3 | | | | | | | | | | |
| | 400 | 78.8 | 82.1 | 84.6 | 84.4 | 85.7 | 85.3 | 86.5 | 88.6 | 90.6 | 91.7 | 92.9 | 94.8 | 93.1 | 142.7 | | | | | | | | | | |
| | 500 | 78.0 | 82.8 | 85.3 | 84.4 | 85.2 | 85.3 | 86.2 | 88.4 | 90.6 | 91.7 | 92.1 | 94.0 | 92.6 | 142.6 | | | | | | | | | | |
| | 630 | 77.4 | 82.2 | 84.9 | 83.5 | 84.8 | 85.7 | 86.5 | 89.2 | 90.4 | 91.8 | 90.7 | 92.1 | 90.9 | 141.9 | | | | | | | | | | |
| | 800 | 76.3 | 81.3 | 83.6 | 84.4 | 85.2 | 86.6 | 86.9 | 89.4 | 91.1 | 90.9 | 90.4 | 92.3 | 90.3 | 141.9 | | | | | | | | | | |
| | 1000 | 74.2 | 80.0 | 82.8 | 83.8 | 84.9 | 86.5 | 87.6 | 89.3 | 91.5 | 91.1 | 90.6 | 90.7 | 89.2 | 141.8 | | | | | | | | | | |
| | 1250 | 73.4 | 78.5 | 81.0 | 83.0 | 85.1 | 86.2 | 87.4 | 89.3 | 91.5 | 90.9 | 89.8 | 90.0 | 88.2 | 141.5 | | | | | | | | | | |
| | 1600 | 71.8 | 78.2 | 81.0 | 82.0 | 85.1 | 85.2 | 86.8 | 89.2 | 91.7 | 91.1 | 88.8 | 89.2 | 87.4 | 141.6 | | | | | | | | | | |
| | 2000 | 70.3 | 76.3 | 79.5 | 80.7 | 83.5 | 84.3 | 86.4 | 87.9 | 90.2 | 89.1 | 87.5 | 87.9 | 85.8 | 140.1 | | | | | | | | | | |
| | 2500 | 69.0 | 75.3 | 78.0 | 80.4 | 83.0 | 83.8 | 85.3 | 87.2 | 89.8 | 87.8 | 86.9 | 86.4 | 85.1 | 139.4 | | | | | | | | | | |
| | 3150 | 67.1 | 73.1 | 76.3 | 78.4 | 81.9 | 83.0 | 84.4 | 85.4 | 88.3 | 86.3 | 86.3 | 84.0 | 83.2 | 137.9 | | | | | | | | | | |
| | 4000 | 65.3 | 72.3 | 74.5 | 76.0 | 79.3 | 79.7 | 80.8 | 82.9 | 85.5 | 82.9 | 82.5 | 80.0 | 80.1 | 135.4 | | | | | | | | | | |
| | 5000 | 64.1 | 71.6 | 75.3 | 76.3 | 79.5 | 79.2 | 80.0 | 82.3 | 84.6 | 80.7 | 79.7 | 80.0 | 78.7 | 134.8 | | | | | | | | | | |
| | 6300 | 62.9 | 69.4 | 74.1 | 74.8 | 77.9 | 77.7 | 78.4 | 81.0 | 82.1 | 79.2 | 77.8 | 76.1 | 75.4 | 133.5 | | | | | | | | | | |
| | 8000 | 61.1 | 66.5 | 71.4 | 71.5 | 74.6 | 75.2 | 75.6 | 76.5 | 77.5 | 76.3 | 74.1 | 71.8 | 70.4 | 130.8 | | | | | | | | | | |
| | 10000 | 61.5 | 65.5 | 70.4 | 69.8 | 75.0 | 74.7 | 75.1 | 74.4 | 75.1 | 74.5 | 72.8 | 68.2 | 68.0 | 130.7 | | | | | | | | | | |
| | 12500 | 65.9 | 69.2 | 75.6 | 72.2 | 79.7 | 79.8 | 79.4 | 75.0 | 75.9 | 78.8 | 77.2 | 69.8 | 71.5 | 136.3 | | | | | | | | | | |
| | OVERALL CALCULATED | 88.4 | 92.2 | 94.6 | 94.9 | 96.6 | 97.4 | 98.6 | 100.8 | 102.8 | 103.6 | 104.7 | 105.8 | 104.3 | | | | | | | | | | | |
| | PNBB | 96.2 | 101.5 | 104.2 | 105.4 | 107.7 | 108.6 | 109.7 | 111.7 | 114.0 | 113.3 | 113.0 | 113.1 | 111.6 | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **324** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in.²)**

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F.) | | | | | | | | | | | | |
|----------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 44.2 | 48.0 | 50.6 | 53.1 | 55.1 | 55.4 | 56.1 | 58.9 | 59.6 | 61.3 | 65.2 | 65.4 | 61.7 |
| 63 | 45.4 | 48.7 | 51.8 | 52.9 | 54.9 | 56.1 | 57.4 | 59.4 | 60.6 | 62.8 | 65.7 | 65.3 | 61.6 |
| 80 | 45.9 | 49.0 | 51.6 | 53.1 | 55.1 | 56.6 | 57.6 | 60.1 | 61.1 | 63.6 | 65.2 | 64.8 | 60.5 |
| 100 | 46.9 | 50.0 | 52.1 | 54.4 | 55.9 | 57.4 | 58.9 | 61.2 | 62.4 | 63.8 | 65.2 | 64.0 | 58.2 |
| 125 | 47.3 | 51.2 | 53.3 | 55.3 | 56.9 | 58.1 | 59.9 | 62.1 | 63.1 | 64.2 | 65.1 | 62.6 | 56.5 |
| 160 | 48.4 | 51.9 | 54.5 | 55.6 | 57.3 | 58.8 | 59.6 | 62.6 | 63.5 | 63.7 | 64.0 | 60.7 | 54.5 |
| 200 | 47.5 | 51.5 | 55.7 | 56.3 | 57.5 | 59.0 | 59.8 | 63.0 | 63.9 | 64.6 | 63.4 | 60.8 | 53.9 |
| 250 | 47.6 | 52.7 | 55.4 | 56.4 | 58.2 | 60.0 | 60.5 | 61.9 | 63.6 | 65.0 | 64.2 | 61.3 | 54.8 |
| 315 | 48.9 | 53.7 | 57.2 | 56.8 | 58.1 | 59.3 | 61.1 | 62.5 | 63.4 | 64.3 | 64.2 | 61.7 | 55.2 |
| MFD (7500. RPM) | 48.8 | 53.9 | 57.7 | 58.4 | 60.2 | 59.9 | 60.9 | 62.6 | 63.7 | 63.5 | 62.9 | 62.0 | 55.7 |
| (785. RAD/SEC) | 47.5 | 54.3 | 58.1 | 58.0 | 59.3 | 59.6 | 60.3 | 62.0 | 63.4 | 63.1 | 61.6 | 60.6 | 54.2 |
| AIRFLOW RATIO | 46.2 | 53.0 | 57.2 | 56.6 | 58.5 | 59.5 | 60.2 | 62.4 | 62.7 | 62.6 | 59.5 | 57.8 | 51.2 |
| WF/WM 6.81 | 44.1 | 51.4 | 55.2 | 56.9 | 58.3 | 59.8 | 60.1 | 61.9 | 62.7 | 61.1 | 58.3 | 56.7 | 48.9 |
| VEHICLE CELL 41 | 41.0 | 49.2 | 53.6 | 55.6 | 57.3 | 59.1 | 60.1 | 61.3 | 62.4 | 60.4 | 57.4 | 53.8 | 45.8 |
| CONFIG NC41 | 38.8 | 46.6 | 50.9 | 54.0 | 56.7 | 58.0 | 58.9 | 60.2 | 61.4 | 59.0 | 55.3 | 51.3 | 42.1 |
| LOC C41 ANECH CH | 35.3 | 44.6 | 49.4 | 51.6 | 53.4 | 55.7 | 57.1 | 58.9 | 60.1 | 57.6 | 52.3 | 48.0 | 37.6 |
| DATE 06-01-76 | 31.5 | 40.9 | 46.2 | 48.8 | 52.3 | 53.4 | 55.2 | 56.0 | 56.9 | 53.7 | 48.7 | 43.6 | 31.6 |
| RUN CONF3LOWFLWC | 26.9 | 37.1 | 42.3 | 46.3 | 49.7 | 50.8 | 52.0 | 53.0 | 54.0 | 49.5 | 44.7 | 37.8 | 24.4 |
| TAPE X03240 | 19.5 | 30.4 | 36.6 | 40.6 | 45.2 | 45.6 | 47.3 | 47.6 | 48.6 | 43.6 | 36.4 | 28.5 | 12.2 |
| FAN TIP SPEED FT/SEC | 9.7 | 22.9 | 28.9 | 32.8 | 37.4 | 38.3 | 38.9 | 38.9 | 39.9 | 33.5 | 26.9 | 14.0 | 7.9 |
| 6300 | 3.8 | 18.3 | 26.3 | 30.2 | 34.7 | 34.8 | 35.1 | 36.0 | 35.6 | 27.4 | 19.4 | 7.9 | |
| 10000 | 4.6 | 15.0 | 19.3 | 24.3 | 24.3 | 24.6 | 24.8 | 25.4 | 23.0 | 14.4 | 3.7 | | |
| 12500 | 58.4 | 63.4 | 66.9 | 67.8 | 69.6 | 70.7 | 71.7 | 73.7 | 74.7 | 75.0 | 75.1 | 73.8 | 68.6 |
| PNDB | 61.3 | 67.9 | 72.1 | 73.6 | 76.0 | 76.8 | 78.1 | 79.7 | 80.8 | 79.3 | 77.7 | 75.3 | 68.2 |

OVERALL CALCULATED

CONFIGURATION 3

TEST POINT 32.7

ACOUSTIC RANGE 731.5m(2400ft.)

SIDELINE FULL - 33m²(513in.²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

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

PROC. DATE - MONTH 8 DAY 24 HR. 10.7
 0. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0. 0. 0.
 FREQ. (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.) PWL

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | 0. | PWL |
|--------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | | | | | | | | | | | | | | | | | | | | |
| RDG. NO. | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 |
| RADIAL (12. M) | 66.9 | 76.4 | 74.2 | 56.2 | 76.5 | 76.4 | 76.3 | 77.7 | 77.7 | 77.7 | 81.0 | 84.2 | 82.6 | 86.9 | 86.4 | 86.9 | 82.6 | 82.6 | 82.6 | 120.8 |
| VEHICLE CELL41 | 66.6 | 70.9 | 72.6 | 55.4 | 75.5 | 76.1 | 76.2 | 77.9 | 77.9 | 77.9 | 77.7 | 76.6 | 77.5 | 84.1 | 85.1 | 85.4 | 85.4 | 85.4 | 85.4 | 120.7 |
| CONFIG NCA1 | 67.1 | 70.2 | 72.7 | 53.7 | 74.0 | 73.7 | 74.5 | 76.2 | 76.2 | 76.2 | 82.5 | 85.9 | 86.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 122.0 |
| LOC C41 ANECH CH | 69.3 | 70.8 | 73.0 | 55.3 | 74.7 | 75.0 | 76.2 | 78.6 | 78.6 | 78.6 | 84.9 | 88.3 | 91.3 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 125.4 |
| DATE 06-01-76 | 70.5 | 72.8 | 73.6 | 54.4 | 75.2 | 76.3 | 78.2 | 80.1 | 82.8 | 84.9 | 86.9 | 91.6 | 93.3 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 127.5 |
| RUN CONF3LOWFLWC | 71.4 | 73.9 | 75.2 | 57.2 | 78.3 | 78.9 | 80.1 | 82.7 | 84.9 | 86.7 | 92.0 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 130.3 |
| TAPE X03250 | 72.7 | 75.2 | 76.7 | 57.5 | 78.6 | 79.2 | 80.6 | 84.5 | 86.7 | 88.5 | 92.0 | 96.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 132.1 |
| BAR 29.3 HG | 75.1 | 76.6 | 77.6 | 58.9 | 78.9 | 80.5 | 82.2 | 84.8 | 87.8 | 89.1 | 93.1 | 97.1 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 133.2 |
| (98975. N/M2) | 75.6 | 77.7 | 78.4 | 60.2 | 81.5 | 82.9 | 84.0 | 87.2 | 89.7 | 93.7 | 96.7 | 98.1 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 133.1 |
| TAMB 63. DEG F | 77.5 | 78.7 | 80.0 | 60.8 | 82.6 | 83.2 | 85.4 | 87.8 | 90.5 | 93.6 | 95.3 | 94.9 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 132.7 |
| (290. DEG K) | 77.0 | 78.6 | 80.8 | 61.6 | 82.2 | 83.8 | 85.4 | 88.6 | 90.6 | 93.1 | 93.9 | 93.8 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 131.5 |
| TWET 61. DEG F | 77.1 | 79.4 | 80.2 | 61.2 | 82.6 | 84.7 | 85.1 | 87.7 | 90.4 | 93.5 | 92.1 | 92.2 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 130.9 |
| (289. DEG K) | 77.4 | 80.0 | 81.5 | 61.3 | 82.8 | 84.2 | 86.1 | 88.8 | 91.2 | 93.8 | 92.4 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 131.0 |
| MACT12.97 GM/M3 | 78.0 | 80.6 | 82.6 | 62.9 | 84.2 | 85.7 | 88.9 | 91.1 | 93.4 | 94.4 | 95.3 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 131.7 |
| (.01297 KG/M3) | 81.0 | 83.8 | 85.8 | 62.9 | 84.2 | 85.3 | 88.6 | 91.6 | 93.4 | 94.8 | 95.8 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 132.2 |
| FREQ. SHIFT | 78.2 | 81.8 | 83.8 | 62.9 | 84.2 | 85.3 | 88.9 | 91.1 | 93.2 | 93.9 | 96.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 132.6 |
| JET | 76.9 | 80.2 | 82.2 | 63.5 | 85.1 | 84.7 | 86.3 | 89.0 | 91.0 | 91.6 | 92.8 | 95.9 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 131.9 |
| DIAMETER RATIO | 75.2 | 79.5 | 81.3 | 66.8 | 83.9 | 85.0 | 86.4 | 88.3 | 91.1 | 91.4 | 90.8 | 92.7 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 130.8 |
| DF/DM 1 | 74.2 | 77.6 | 79.4 | 66.6 | 83.4 | 85.1 | 86.4 | 88.4 | 90.9 | 92.2 | 90.4 | 91.3 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 130.5 |
| | 72.4 | 75.8 | 77.1 | 65.6 | 81.7 | 82.3 | 84.6 | 86.4 | 89.1 | 89.8 | 87.0 | 88.3 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 129.0 |
| | 70.3 | 73.7 | 75.5 | 63.2 | 80.7 | 81.1 | 83.0 | 85.2 | 88.3 | 88.8 | 85.4 | 86.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 129.0 |
| | 67.8 | 71.1 | 73.7 | 63.1 | 78.8 | 78.7 | 80.7 | 82.6 | 85.5 | 86.7 | 82.1 | 82.8 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 129.3 |
| | 64.5 | 68.6 | 69.5 | 61.5 | 75.0 | 75.0 | 76.8 | 78.8 | 82.5 | 82.4 | 79.0 | 78.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 129.1 |
| | 58.1 | 60.4 | 60.8 | 72.5 | 72.5 | 74.0 | 77.1 | 79.1 | 82.5 | 82.4 | 79.0 | 78.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 129.3 |
| | 61.7 | 65.6 | 65.6 | 59.1 | 67.4 | 67.7 | 68.9 | 72.5 | 73.9 | 73.7 | 70.0 | 69.1 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 123.4 |
| | 52.4 | 57.1 | 60.8 | 56.3 | 60.7 | 61.0 | 62.0 | 64.6 | 66.3 | 67.5 | 61.6 | 60.7 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 | 120.4 |
| | 46.2 | 51.2 | 56.1 | 52.3 | 54.0 | 54.2 | 55.1 | 57.1 | 59.3 | 60.9 | 53.7 | 50.9 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 119.7 |
| | 40.8 | 48.4 | 54.5 | 50.4 | 50.1 | 50.5 | 50.4 | 48.7 | 54.3 | 58.7 | 48.6 | 42.2 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 125.3 |
| OVERALL MEASURED | 88.5 | 91.5 | 93.2 | 76.5 | 95.5 | 96.4 | 97.8 | 100.4 | 102.8 | 105.3 | 106.9 | 108.5 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 144.6 |
| OVERALL CALCULATED | 101.6 | 104.8 | 106.6 | 88.0 | 108.0 | 109.0 | 110.3 | 112.8 | 115.3 | 117.6 | 118.9 | 120.5 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 325 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(II.lin²)

| MO EGA | ROG. NO. | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | MACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70-PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | |
|--------|--------------------|------------------|---------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-----|------|------|------|------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. |
| | 50 | 76.6 | 79.1 | 80.4 | 81.9 | 83.5 | 84.4 | 85.3 | 87.9 | 90.1 | 94.7 | 99.1 | 101.4 | 103.4 | 102.4 | 101.6 | 101.4 | 146.9 | | | | | |
| | 63 | 77.9 | 80.4 | 81.9 | 83.5 | 84.4 | 85.3 | 87.9 | 90.1 | 94.7 | 99.1 | 101.4 | 103.4 | 102.4 | 101.6 | 101.4 | 146.7 | | | | | | |
| | 80 | 79.5 | 80.5 | 81.7 | 83.3 | 84.1 | 85.7 | 87.4 | 90.0 | 93.0 | 97.2 | 101.4 | 103.4 | 102.4 | 101.6 | 101.4 | 149.9 | | | | | | |
| | 100 | 80.3 | 81.8 | 82.8 | 84.1 | 85.2 | 86.8 | 88.7 | 91.1 | 93.8 | 98.2 | 101.6 | 104.8 | 103.1 | 101.9 | 101.4 | 149.6 | | | | | | |
| | 125 | 80.8 | 82.9 | 83.6 | 85.4 | 86.7 | 88.1 | 89.2 | 92.4 | 94.9 | 98.9 | 101.9 | 103.3 | 101.9 | 100.5 | 100.1 | 148.2 | | | | | | |
| | 160 | 82.7 | 83.9 | 85.2 | 86.0 | 87.8 | 88.4 | 89.0 | 90.7 | 93.8 | 95.7 | 98.8 | 100.5 | 100.1 | 99.4 | 97.4 | 147.5 | | | | | | |
| | 200 | 82.2 | 83.8 | 86.0 | 86.8 | 87.4 | 89.0 | 90.3 | 92.9 | 95.7 | 98.7 | 98.7 | 97.4 | 97.4 | 97.4 | 97.4 | 147.3 | | | | | | |
| | 250 | 82.4 | 84.6 | 85.4 | 86.4 | 87.8 | 88.1 | 89.4 | 91.3 | 94.0 | 96.5 | 99.0 | 99.0 | 97.7 | 96.2 | 96.2 | 147.6 | | | | | | |
| | 315 | 82.7 | 85.2 | 86.7 | 86.5 | 88.1 | 89.4 | 91.3 | 94.0 | 96.5 | 99.0 | 99.0 | 97.7 | 96.2 | 96.2 | 96.2 | 147.6 | | | | | | |
| | 400 | 83.3 | 85.8 | 87.8 | 88.1 | 89.5 | 90.1 | 91.8 | 94.1 | 96.3 | 98.7 | 99.6 | 100.5 | 98.1 | 98.1 | 98.1 | 148.3 | | | | | | |
| | 500 | 83.5 | 86.3 | 88.6 | 89.5 | 90.1 | 91.8 | 94.1 | 96.3 | 98.7 | 99.6 | 100.5 | 98.1 | 98.1 | 98.1 | 98.1 | 148.3 | | | | | | |
| | 630 | 83.6 | 87.2 | 89.2 | 89.5 | 90.7 | 91.8 | 94.2 | 96.4 | 98.5 | 99.2 | 102.1 | 101.2 | 101.2 | 101.2 | 101.2 | 148.8 | | | | | | |
| | 800 | 82.3 | 85.6 | 87.6 | 88.9 | 90.4 | 90.1 | 91.7 | 94.4 | 96.3 | 96.9 | 98.1 | 101.3 | 101.8 | 101.8 | 101.8 | 148.6 | | | | | | |
| | 1000 | 80.7 | 85.0 | 86.8 | 87.3 | 89.4 | 90.5 | 91.9 | 93.8 | 96.5 | 96.9 | 96.3 | 98.2 | 100.2 | 100.2 | 100.2 | 147.5 | | | | | | |
| | 1250 | 79.9 | 83.2 | 85.0 | 85.5 | 89.4 | 90.5 | 91.9 | 93.8 | 96.5 | 96.9 | 96.3 | 98.2 | 100.2 | 100.2 | 100.2 | 147.5 | | | | | | |
| | 1600 | 78.3 | 83.9 | 85.5 | 86.0 | 89.4 | 90.7 | 92.1 | 94.0 | 96.5 | 97.9 | 96.1 | 97.0 | 99.5 | 99.5 | 99.5 | 147.0 | | | | | | |
| | 2000 | 76.6 | 82.1 | 83.4 | 84.4 | 87.9 | 88.6 | 91.0 | 94.2 | 96.5 | 97.6 | 94.3 | 95.6 | 98.6 | 98.6 | 98.6 | 145.7 | | | | | | |
| | 2500 | 74.8 | 81.0 | 82.4 | 82.4 | 87.7 | 88.0 | 90.0 | 92.1 | 95.2 | 95.7 | 92.3 | 93.6 | 98.5 | 98.5 | 98.5 | 145.7 | | | | | | |
| | 3150 | 72.3 | 78.8 | 81.4 | 81.4 | 86.6 | 86.6 | 89.4 | 90.4 | 93.2 | 94.5 | 89.9 | 90.5 | 102.4 | 102.4 | 102.4 | 145.8 | | | | | | |
| | 4000 | 69.7 | 77.5 | 78.4 | 78.4 | 83.9 | 83.9 | 85.7 | 87.7 | 91.4 | 91.3 | 87.9 | 87.1 | 98.2 | 98.2 | 98.2 | 142.9 | | | | | | |
| | 5000 | 68.9 | 77.2 | 79.2 | 79.2 | 83.4 | 83.4 | 84.8 | 87.9 | 90.0 | 89.0 | 86.0 | 85.9 | 97.8 | 97.8 | 97.8 | 142.9 | | | | | | |
| | 6300 | 65.9 | 75.2 | 79.1 | 79.1 | 81.0 | 81.0 | 82.5 | 86.0 | 87.6 | 87.2 | 83.5 | 82.7 | 94.0 | 94.0 | 94.0 | 140.1 | | | | | | |
| | 8000 | 63.1 | 74.0 | 77.7 | 77.7 | 77.6 | 77.9 | 78.9 | 81.5 | 83.2 | 84.4 | 78.5 | 77.5 | 89.4 | 89.4 | 89.4 | 137.1 | | | | | | |
| | 10000 | 62.7 | 73.2 | 78.0 | 78.0 | 76.0 | 76.2 | 77.0 | 79.1 | 81.3 | 82.8 | 75.7 | 72.9 | 86.7 | 86.7 | 86.7 | 136.4 | | | | | | |
| | 12500 | 66.1 | 77.8 | 83.9 | 83.9 | 79.5 | 79.9 | 79.8 | 78.1 | 83.7 | 88.1 | 78.0 | 71.6 | 90.4 | 90.4 | 90.4 | 142.0 | | | | | | |
| | OVERALL CALCULATED | 93.7 | 96.8 | 98.7 | 85.3 | 101.0 | 101.9 | 103.3 | 105.9 | 108.4 | 110.7 | 111.9 | 113.5 | 113.7 | 113.7 | 113.7 | 161.1 | | | | | | |
| | PMBB | 101.7 | 106.8 | 108.6 | 96.2 | 112.2 | 112.7 | 114.6 | 116.6 | 119.5 | 120.7 | 119.2 | 120.2 | 125.6 | 125.6 | 125.6 | | | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 325 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m(113in.)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | NFA
(1. RPM) | NFK
(0. RAD/SEC) | NFD
(7500. RPM) | AIRFLOW RATIO
WF/W 6.81 | VEHICLE
CELL41 | CONFIG
LOC C41 ANECH CH | DATE 06-01-76 | RUN CONF3LOWFLWC | TAPE X03250 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F, 70 PERCENT REL. HUM. DAT) | | | | | | | | | | | | | | | | | |
|--|-------------------|-----------------------|----------------------|----------------------------|-------------------|----------------------------|---------------|------------------|-------------|-------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | | |
| | | | | | | | | | | | (0.70) | (0.37) | (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.) | |
| | | | | | | | | | | | 48.4 | 52.5 | 54.9 | 37.6 | 59.1 | 59.9 | 60.9 | 63.1 | 64.6 | 68.1 | 71.0 | 71.1 | 71.1 | 67.5 | | | | |
| | | | | | | | | | | | 49.6 | 53.7 | 56.3 | 37.9 | 59.4 | 60.1 | 61.4 | 64.9 | 66.3 | 70.6 | 73.2 | 72.8 | 72.8 | 68.4 | | | | |
| | | | | | | | | | | | 51.1 | 53.7 | 56.1 | 38.4 | 59.6 | 61.4 | 62.9 | 65.1 | 67.4 | 71.6 | 73.9 | 74.1 | 74.1 | 69.5 | | | | |
| | | | | | | | | | | | 51.9 | 55.0 | 57.1 | 39.2 | 60.7 | 62.4 | 64.2 | 66.2 | 68.1 | 71.3 | 73.2 | 74.0 | 74.0 | 68.7 | | | | |
| | | | | | | | | | | | 52.3 | 55.9 | 57.8 | 40.3 | 62.1 | 63.6 | 64.6 | 67.3 | 69.1 | 72.0 | 73.3 | 72.4 | 72.4 | 67.2 | | | | |
| | | | | | | | | | | | 53.9 | 56.9 | 59.3 | 40.8 | 63.1 | 63.8 | 65.8 | 67.8 | 69.8 | 71.7 | 71.7 | 69.0 | 64.5 | | | | | |
| | | | | | | | | | | | 53.3 | 56.5 | 60.0 | 41.5 | 62.5 | 64.3 | 65.8 | 69.7 | 71.1 | 70.1 | 67.6 | 61.9 | | | | | | |
| | | | | | | | | | | | 53.1 | 57.2 | 59.1 | 40.9 | 62.7 | 65.0 | 67.4 | 69.4 | 71.3 | 69.5 | 65.6 | 61.5 | | | | | | |
| | | | | | | | | | | | 53.1 | 57.4 | 60.2 | 40.8 | 62.8 | 64.3 | 66.1 | 68.3 | 69.9 | 71.3 | 69.4 | 65.4 | 61.5 | | | | | |
| | | | | | | | | | | | 53.3 | 57.7 | 61.0 | 42.1 | 63.9 | 64.7 | 65.4 | 68.1 | 69.5 | 70.5 | 69.6 | 67.7 | 60.7 | | | | | |
| | | | | | | | | | | | 53.0 | 57.8 | 61.4 | 41.5 | 63.6 | 64.6 | 65.1 | 67.5 | 69.6 | 70.1 | 69.6 | 67.6 | 62.0 | | | | | |
| | | | | | | | | | | | 52.2 | 58.0 | 61.5 | 41.4 | 63.2 | 64.5 | 65.5 | 67.4 | 69.4 | 68.0 | 67.4 | 65.0 | 61.5 | | | | | |
| | | | | | | | | | | | 50.1 | 55.7 | 59.2 | 41.4 | 63.0 | 63.3 | 64.8 | 66.9 | 67.9 | 67.1 | 66.0 | 63.7 | 60.4 | | | | | |
| | | | | | | | | | | | 47.5 | 54.2 | 57.6 | 44.1 | 61.8 | 63.1 | 64.3 | 65.6 | 67.3 | 66.1 | 63.1 | 61.3 | 56.7 | | | | | |
| | | | | | | | | | | | 45.3 | 51.3 | 54.8 | 43.2 | 60.7 | 62.5 | 63.7 | 65.0 | 66.3 | 66.0 | 61.5 | 58.3 | 53.4 | | | | | |
| | | | | | | | | | | | 41.8 | 50.4 | 53.9 | 41.6 | 59.6 | 60.2 | 61.4 | 63.8 | 64.9 | 64.1 | 57.8 | 54.4 | 48.8 | | | | | |
| | | | | | | | | | | | 37.8 | 46.6 | 50.1 | 40.0 | 56.8 | 57.6 | 59.7 | 60.7 | 62.1 | 60.7 | 54.5 | 50.4 | 45.1 | | | | | |
| | | | | | | | | | | | 32.6 | 42.8 | 46.7 | 38.0 | 54.4 | 55.0 | 56.7 | 58.0 | 59.5 | 57.4 | 50.1 | 45.0 | 37.8 | | | | | |
| | | | | | | | | | | | 24.7 | 36.1 | 41.7 | 33.0 | 49.8 | 50.0 | 51.7 | 52.6 | 53.5 | 51.8 | 42.3 | 34.9 | 31.4 | | | | | |
| | | | | | | | | | | | 14.1 | 28.0 | 32.8 | 27.2 | 42.0 | 42.4 | 43.8 | 44.5 | 45.8 | 41.8 | 32.2 | 21.1 | 11.8 | | | | | |
| | | | | | | | | | | | 8.6 | 23.9 | 30.1 | 25.3 | 38.5 | 38.9 | 40.0 | 41.6 | 40.9 | 35.7 | 25.7 | 13.7 | 2.4 | | | | | |
| | | | | | | | | | | | 10.4 | 20.0 | 17.1 | 27.3 | 28.2 | 28.8 | 30.4 | 28.3 | 22.4 | 22.4 | 9.5 | | | | | | | |
| | | | | | | | | | | | 3.1 | 3.5 | 10.4 | 11.6 | 11.7 | 11.7 | 11.8 | 8.7 | 8.7 | 2.1 | | | | | | | | |
| | | | | | | | | | | | 10000 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 12500 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 63.6 | 67.9 | 70.8 | 53.6 | 74.3 | 75.4 | 76.7 | 78.9 | 80.5 | 82.1 | 82.5 | 81.6 | 76.7 | | | | | |
| | | | | | | | | | | | 66.8 | 72.6 | 76.1 | 61.1 | 80.6 | 81.5 | 82.9 | 85.0 | 86.3 | 86.6 | 84.8 | 82.7 | 76.9 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 325 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-33m(513in.) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 10.7
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA | NO. O. | R/DG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | U. | O. | O. | O. | PWL | |
|---|--------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| | | | | | | | | | | | | | | | | | | | | | (0.70) |
| 63 | 30 | 100 | 66.9 | 76.2 | 74.4 | 75.5 | 76.0 | 76.7 | 76.8 | 77.5 | 78.2 | 78.2 | 77.4 | 81.5 | 84.4 | 82.9 | 84.9 | 84.9 | 84.9 | 84.9 | 121.2 |
| 125 | 30 | 160 | 67.1 | 70.9 | 73.1 | 74.4 | 75.7 | 76.4 | 76.7 | 78.2 | 77.1 | 77.6 | 77.6 | 77.6 | 84.6 | 85.3 | 85.3 | 85.1 | 85.1 | 85.1 | 121.1 |
| 200 | 30 | 200 | 70.0 | 71.5 | 73.0 | 74.6 | 74.7 | 75.0 | 75.9 | 78.8 | 81.5 | 84.9 | 87.8 | 91.0 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 122.2 |
| 250 | 30 | 250 | 71.5 | 72.8 | 74.3 | 75.9 | 75.5 | 77.1 | 79.0 | 80.1 | 83.1 | 86.7 | 91.1 | 92.8 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 125.3 |
| 315 | 30 | 315 | 71.7 | 74.4 | 75.2 | 76.7 | 78.3 | 78.4 | 79.6 | 82.7 | 85.2 | 89.8 | 93.2 | 95.9 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 130.0 |
| 400 | 30 | 400 | 73.4 | 75.2 | 77.2 | 77.2 | 78.6 | 79.7 | 80.8 | 84.2 | 86.7 | 91.8 | 95.5 | 97.2 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 131.5 |
| 500 | 30 | 500 | 74.3 | 75.3 | 77.0 | 77.8 | 79.4 | 80.8 | 81.7 | 84.8 | 87.3 | 93.4 | 96.3 | 98.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 132.4 |
| 630 | 30 | 630 | 75.1 | 76.9 | 77.4 | 78.7 | 80.0 | 81.1 | 83.3 | 86.2 | 88.4 | 93.2 | 94.9 | 97.1 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 131.7 |
| 1000 | 30 | 1000 | 76.9 | 78.7 | 80.0 | 80.3 | 81.6 | 83.7 | 84.6 | 87.5 | 89.2 | 93.8 | 94.0 | 93.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 130.6 |
| 1600 | 30 | 1600 | 77.4 | 79.2 | 80.2 | 81.5 | 83.1 | 84.4 | 85.3 | 87.7 | 90.4 | 93.8 | 92.5 | 92.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 130.5 |
| 2000 | 30 | 2000 | 79.7 | 81.7 | 81.5 | 82.8 | 84.0 | 85.8 | 85.8 | 88.5 | 90.5 | 93.5 | 92.3 | 92.7 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 130.5 |
| 2500 | 30 | 2500 | 80.1 | 82.1 | 82.9 | 84.2 | 84.1 | 86.2 | 85.9 | 88.9 | 91.1 | 92.7 | 93.1 | 94.5 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 131.2 |
| 3150 | 30 | 3150 | 80.8 | 82.8 | 82.8 | 83.9 | 84.6 | 85.9 | 85.9 | 88.3 | 91.1 | 92.9 | 93.3 | 95.0 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 131.6 |
| 4000 | 30 | 4000 | 80.8 | 82.8 | 81.0 | 82.7 | 83.8 | 84.7 | 85.8 | 89.0 | 90.5 | 91.1 | 91.0 | 93.9 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 131.6 |
| 5000 | 30 | 5000 | 80.8 | 82.8 | 81.6 | 83.7 | 85.0 | 86.4 | 86.6 | 89.6 | 90.8 | 90.4 | 90.1 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 130.8 |
| 8000 | 30 | 8000 | 80.8 | 82.8 | 80.6 | 83.5 | 84.8 | 86.5 | 86.5 | 88.1 | 90.9 | 90.8 | 88.4 | 92.1 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 130.2 |
| 10000 | 30 | 10000 | 80.8 | 82.8 | 80.3 | 83.4 | 83.8 | 85.4 | 85.4 | 88.6 | 90.3 | 90.0 | 88.4 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 129.7 |
| 12500 | 30 | 12500 | 80.8 | 82.8 | 78.9 | 81.2 | 82.5 | 84.3 | 84.3 | 86.6 | 88.4 | 88.4 | 85.8 | 88.3 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 128.5 |
| 16000 | 30 | 16000 | 80.8 | 82.8 | 74.8 | 78.2 | 80.8 | 81.1 | 82.8 | 85.2 | 87.8 | 87.1 | 84.9 | 86.4 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 128.1 |
| 20000 | 30 | 20000 | 80.8 | 82.8 | 72.4 | 74.6 | 78.7 | 81.0 | 82.4 | 85.3 | 87.8 | 84.1 | 80.5 | 82.1 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 126.2 |
| 25000 | 30 | 25000 | 80.8 | 82.8 | 69.9 | 71.7 | 74.4 | 76.4 | 76.4 | 79.2 | 81.9 | 80.5 | 77.6 | 77.6 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 124.0 |
| 31500 | 30 | 31500 | 80.8 | 82.8 | 68.5 | 69.7 | 72.9 | 73.9 | 73.9 | 76.5 | 78.8 | 76.9 | 73.8 | 75.2 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 123.4 |
| 40000 | 30 | 40000 | 80.8 | 82.8 | 65.6 | 65.8 | 67.7 | 67.7 | 69.2 | 72.7 | 73.6 | 72.5 | 68.9 | 68.9 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 121.9 |
| 50000 | 30 | 50000 | 80.8 | 82.8 | 60.8 | 60.3 | 60.4 | 61.3 | 62.0 | 65.1 | 66.3 | 66.1 | 63.7 | 61.9 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 119.3 |
| 63000 | 30 | 63000 | 80.8 | 82.8 | 56.9 | 54.6 | 54.6 | 54.5 | 55.2 | 57.4 | 59.5 | 60.8 | 58.6 | 54.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 119.4 |
| 80000 | 30 | 80000 | 80.8 | 82.8 | 55.2 | 51.6 | 50.7 | 50.9 | 50.7 | 48.9 | 55.0 | 59.2 | 57.3 | 49.4 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 125.5 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | | | |
| PRDB 86.0 90.9 92.8 95.5 95.3 96.2 97.7 100.4 102.5 104.9 105.7 107.4 106.6 | | | | | | | | | | | | | | | | | | | | | |
| 100.8 104.0 106.0 106.1 107.3 108.7 110.0 112.9 114.9 117.1 117.6 119.7 118.6 | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **326** ACCUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-71.3cm²(11.1in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 26 HR. 12.1
0. 0. 0.) (0. 0.) (0. 0.) (0. 0.)

| RDG. NO. | NO EGA | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | PWL | | | | | | | | | | | | |
|----------|--------|---------|--------|-----|----------|--------------|--------|------|------|------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | 40. | 50. | 60. | | | | | | | | | | | | | |
| 50 | 76.8 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 50 | 76.8 | 79.6 | 80.4 | 81.9 | 83.5 | 85.3 | 86.6 | 87.9 | 90.4 | 92.7 | 94.9 | 98.4 | 101.1 | 101.4 | 146.7 | |
| 63 | 78.6 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 63 | 78.6 | 80.4 | 82.4 | 83.4 | 85.6 | 86.0 | 86.9 | 88.0 | 89.4 | 91.9 | 97.0 | 98.4 | 101.1 | 101.4 | 148.2 | |
| 80 | 79.5 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 80 | 79.5 | 80.5 | 82.2 | 83.0 | 84.6 | 86.0 | 86.9 | 88.5 | 91.4 | 93.6 | 98.6 | 101.5 | 103.4 | 102.5 | 149.1 | |
| 100 | 80.3 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 100 | 80.3 | 82.1 | 82.6 | 83.9 | 85.2 | 86.3 | 88.5 | 89.2 | 91.4 | 93.6 | 98.6 | 101.5 | 103.4 | 102.5 | 149.1 | |
| 125 | 81.1 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 125 | 81.1 | 83.1 | 83.6 | 85.1 | 86.5 | 88.1 | 89.2 | 92.4 | 94.9 | 98.9 | 100.1 | 102.3 | 101.6 | 148.0 | | |
| 160 | 82.2 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 160 | 82.2 | 83.9 | 85.2 | 85.5 | 86.8 | 88.9 | 89.5 | 92.7 | 94.4 | 99.0 | 99.2 | 98.4 | 96.4 | 94.5 | 147.3 | |
| 200 | 81.7 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 200 | 81.7 | 83.8 | 86.5 | 86.1 | 87.4 | 88.8 | 90.2 | 93.8 | 95.3 | 99.1 | 98.1 | 98.0 | 97.6 | 94.6 | 147.2 | |
| 250 | 82.6 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 250 | 82.6 | 84.9 | 87.0 | 86.7 | 88.1 | 89.2 | 91.1 | 93.7 | 95.7 | 98.8 | 97.5 | 97.9 | 94.7 | 94.7 | 147.1 | |
| 315 | 82.2 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 315 | 82.2 | 84.9 | 87.0 | 86.7 | 88.1 | 89.2 | 91.1 | 93.7 | 95.7 | 98.8 | 97.5 | 97.9 | 94.7 | 94.7 | 147.2 | |
| 400 | 82.5 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 400 | 82.5 | 85.3 | 87.0 | 86.3 | 87.0 | 89.1 | 90.5 | 91.9 | 94.0 | 96.3 | 95.9 | 95.6 | 94.1 | 97.7 | 97.0 | 146.8 |
| 500 | 82.3 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 500 | 82.3 | 84.8 | 87.6 | 87.4 | 89.2 | 89.3 | 89.9 | 91.3 | 94.5 | 96.2 | 97.0 | 97.5 | 101.4 | 100.2 | 145.1 | |
| 630 | 82.1 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 630 | 82.1 | 86.2 | 88.2 | 87.2 | 89.3 | 89.9 | 91.3 | 94.5 | 96.2 | 97.0 | 97.5 | 101.4 | 100.2 | 145.1 | | |
| 800 | 81.0 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 800 | 81.0 | 84.5 | 86.3 | 85.1 | 89.2 | 90.1 | 91.2 | 94.4 | 95.3 | 96.4 | 96.4 | 99.3 | 99.3 | 99.3 | 147.5 | |
| 1000 | 79.9 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 1000 | 79.9 | 83.5 | 86.3 | 87.0 | 89.1 | 90.5 | 91.9 | 94.0 | 96.3 | 95.9 | 95.6 | 98.2 | 98.2 | 98.2 | 147.1 | |
| 1250 | 79.1 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 1250 | 79.1 | 82.0 | 84.8 | 86.3 | 89.1 | 90.5 | 92.1 | 93.8 | 96.5 | 96.4 | 94.1 | 97.7 | 97.0 | 97.0 | 146.8 | |
| 1600 | 76.8 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 1600 | 76.8 | 82.4 | 84.2 | 86.2 | 89.3 | 89.7 | 91.3 | 94.5 | 96.2 | 95.9 | 93.1 | 96.2 | 96.2 | 96.2 | 146.4 | |
| 2000 | 75.3 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 2000 | 75.3 | 80.1 | 83.0 | 85.2 | 87.5 | 88.8 | 90.6 | 92.9 | 94.7 | 94.6 | 92.0 | 94.6 | 94.6 | 94.6 | 145.2 | |
| 2500 | 73.5 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 2500 | 73.5 | 79.3 | 81.8 | 85.2 | 87.7 | 88.1 | 89.8 | 92.2 | 94.8 | 94.0 | 91.9 | 93.4 | 94.1 | 94.1 | 144.8 | |
| 3150 | 71.6 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 3150 | 71.6 | 76.4 | 80.5 | 82.4 | 86.4 | 86.2 | 88.2 | 90.2 | 93.1 | 91.8 | 88.2 | 89.8 | 91.7 | 91.7 | 142.9 | |
| 4000 | 69.3 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 4000 | 69.3 | 75.1 | 78.7 | 80.5 | 83.3 | 83.5 | 85.3 | 88.1 | 90.8 | 89.4 | 86.5 | 86.5 | 87.6 | 87.6 | 140.7 | |
| 5000 | 68.1 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 5000 | 68.1 | 74.9 | 79.3 | 80.5 | 83.8 | 83.7 | 84.7 | 87.3 | 89.6 | 87.7 | 84.7 | 86.0 | 86.7 | 86.7 | 140.0 | |
| 6300 | 65.9 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 6300 | 65.9 | 72.4 | 79.1 | 79.3 | 81.2 | 81.4 | 82.7 | 86.2 | 87.1 | 86.0 | 83.0 | 82.4 | 83.2 | 83.2 | 138.6 | |
| 8000 | 62.6 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 8000 | 62.6 | 69.2 | 77.7 | 77.2 | 77.3 | 78.2 | 78.9 | 82.0 | 83.2 | 83.0 | 80.6 | 78.8 | 78.9 | 78.9 | 136.0 | |
| 10000 | 62.3 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 10000 | 62.3 | 67.0 | 78.9 | 76.5 | 76.5 | 76.5 | 77.1 | 79.4 | 81.4 | 82.7 | 80.5 | 74.0 | 77.0 | 77.0 | 136.1 | |
| 12500 | 66.1 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 12500 | 66.1 | 69.7 | 84.6 | 81.0 | 80.2 | 80.3 | 80.2 | 78.3 | 84.4 | 88.6 | 86.7 | 78.8 | 80.5 | 80.5 | 142.2 | |
| 12500 | 93.2 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | 12500 | 93.2 | 96.0 | 98.4 | 99.0 | 100.8 | 101.7 | 103.2 | 105.9 | 108.1 | 110.2 | 110.7 | 112.4 | 111.5 | 111.5 | 160.3 | |
| PMDB | 100.9 | 0. | NC41 | C41 | 05-01-76 | CONF3LOWFLWC | XG3260 | 29.3 | 61. | 59. | 12.09 | PMDB | 100.9 | 105.2 | 108.1 | 109.8 | 112.1 | 112.7 | 114.3 | 116.9 | 119.1 | 119.6 | 118.3 | 119.8 | 119.6 | 119.6 | 119.6 | |

OVERALL CALCULATED 93.2 96.0 98.4 99.0 100.8 101.7 103.2 105.9 108.1 110.2 110.7 112.4 111.5

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 326 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | (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) |
| 63 | 50.4 | 53.0 | 54.9 | 57.1 | 59.1 | 59.4 | 60.4 | 63.1 | 64.9 | 68.3 | 70.2 | 70.6 | 67.5 |
| 80 | 51.1 | 53.7 | 56.6 | 58.1 | 60.1 | 60.6 | 64.6 | 66.3 | 70.3 | 72.4 | 71.8 | 68.1 | 68.3 |
| 100 | 51.9 | 55.3 | 56.9 | 58.9 | 60.7 | 61.6 | 62.4 | 65.1 | 66.9 | 71.8 | 73.2 | 72.8 | 68.3 |
| 125 | 52.5 | 56.2 | 57.8 | 60.1 | 61.9 | 63.6 | 64.6 | 67.3 | 69.1 | 72.0 | 71.6 | 71.5 | 67.2 |
| 160 | 53.4 | 56.9 | 59.3 | 60.3 | 62.1 | 63.3 | 65.1 | 67.6 | 68.5 | 71.9 | 70.5 | 67.2 | 61.5 |
| 200 | 52.8 | 56.5 | 60.4 | 60.8 | 62.5 | 64.0 | 65.3 | 68.5 | 69.2 | 71.9 | 69.1 | 66.6 | 59.2 |
| 250 | 53.4 | 56.9 | 59.1 | 61.2 | 63.2 | 64.7 | 65.5 | 67.4 | 69.4 | 71.5 | 68.5 | 65.8 | 58.8 |
| 315 | 52.6 | 57.2 | 60.4 | 61.0 | 62.8 | 64.1 | 65.8 | 68.0 | 69.2 | 71.0 | 67.9 | 65.7 | 58.2 |
| 400 | 52.5 | 57.2 | 60.5 | 62.1 | 63.9 | 63.9 | 65.9 | 68.1 | 69.5 | 69.8 | 68.4 | 67.0 | 59.9 |
| 500 | 51.8 | 56.3 | 60.6 | 61.0 | 63.3 | 64.1 | 65.1 | 67.3 | 69.1 | 69.6 | 68.1 | 66.8 | 60.2 |
| 630 | 50.9 | 57.0 | 60.5 | 60.4 | 63.0 | 63.8 | 65.0 | 67.6 | 68.5 | 67.9 | 66.3 | 67.0 | 60.5 |
| 800 | 48.9 | 54.7 | 57.9 | 60.7 | 62.3 | 63.3 | 64.3 | 65.9 | 67.4 | 66.6 | 64.3 | 63.7 | 58.4 |
| 1000 | 46.7 | 52.7 | 57.1 | 58.9 | 61.6 | 63.1 | 64.3 | 65.9 | 67.1 | 65.1 | 62.4 | 61.3 | 54.8 |
| 1250 | 44.6 | 50.1 | 54.6 | 57.2 | 60.7 | 62.2 | 63.7 | 64.7 | 66.4 | 64.5 | 59.5 | 59.0 | 50.9 |
| 1600 | 40.3 | 48.9 | 52.6 | 55.9 | 59.6 | 60.2 | 61.6 | 64.1 | 64.6 | 62.4 | 56.6 | 55.0 | 44.3 |
| 2000 | 36.5 | 44.6 | 49.7 | 53.3 | 56.3 | 57.9 | 59.5 | 61.0 | 61.4 | 59.2 | 53.2 | 50.4 | 40.6 |
| 2500 | 31.4 | 41.1 | 46.0 | 51.0 | 54.4 | 55.0 | 56.5 | 58.0 | 59.0 | 55.8 | 49.7 | 44.8 | 33.4 |
| 3150 | 24.0 | 33.7 | 40.8 | 44.6 | 49.7 | 49.8 | 52.0 | 52.6 | 53.4 | 49.1 | 40.7 | 34.3 | 20.7 |
| 4000 | 13.7 | 25.6 | 33.2 | 37.3 | 41.4 | 42.0 | 43.4 | 44.9 | 45.2 | 40.0 | 30.9 | 20.5 | 1.1 |
| 5000 | 7.8 | 21.5 | 30.3 | 34.2 | 38.9 | 39.3 | 39.9 | 41.0 | 40.6 | 34.4 | 24.4 | 13.9 | |
| 6300 | | 7.6 | 20.0 | 23.8 | 27.5 | 28.4 | 29.0 | 30.7 | 28.0 | 21.2 | 9.2 | | |
| 8000 | | | 3.2 | 7.5 | 10.2 | 11.9 | 11.8 | 12.3 | 8.7 | 0.6 | | | |
| 10000 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 65.2 | 67.4 | 70.5 | 71.9 | 74.1 | 75.3 | 74.5 | 78.8 | 80.1 | 82.0 | 81.3 | 80.3 | 75.4 |
| PH08 | 66.1 | 71.6 | 75.5 | 77.5 | 80.5 | 81.4 | 82.8 | 85.1 | 86.0 | 85.9 | 83.5 | 81.8 | 74.8 |

NO EGA
 SIDELINE 2400. FT.
 (731.52 K)
 MFA (0. RPM)
 NFK (0. RAD/SEC)
 NFD (7500. RPM)
 (785. RAD/SEC)
 AIRFLOW RATIO
 WF/W 6.81
 VEHICLE CELL41
 CONFIG NC41
 LOC C41 ANECH CH
 DATE 06-01-76
 RUN CONF3LOWFLWC
 TAPE X03260
 FAN TIP SPEED
 FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 326 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m (513in.) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

RDG. NO. 63
 RADIAL 40. FT.
 VEHICLE CELL 41
 CONFIG NC 41
 LOC C41 ANECH CH
 DATE 06-01-76
 RUN CONF3LOWFLWC
 TAPE X03270
 BAR 29.3 HG
 (98975. N/M2)
 TAMB 63. DEG F
 (290. DEG K)
 TWET 61. DEG F
 (289. DEG K)
 HACT13.12 GM/M3
 (.01312 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 DF/DM 1

| RDG. NO. | NO EGA | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|
| 100 | 73.9 | 83.4 | 81.7 | 82.7 | 83.5 | 84.7 | 84.8 | 86.2 | 86.2 | 89.0 | 92.4 | 91.4 | 93.4 | 129.2 | | | | | |
| 125 | 73.6 | 78.1 | 79.9 | 81.7 | 83.2 | 83.9 | 84.5 | 86.7 | 84.6 | 84.6 | 84.4 | 92.9 | 93.6 | 129.1 | | | | | |
| 160 | 74.9 | 76.9 | 79.7 | 79.7 | 81.3 | 80.9 | 81.5 | 83.5 | 85.7 | 90.2 | 94.7 | 95.1 | 96.4 | 130.5 | | | | | |
| 200 | 76.5 | 77.6 | 79.3 | 80.8 | 82.2 | 81.8 | 83.2 | 86.3 | 89.0 | 93.1 | 96.6 | 99.8 | 100.5 | 133.8 | | | | | |
| 250 | 77.1 | 79.8 | 81.1 | 80.9 | 82.7 | 83.6 | 86.5 | 88.4 | 90.3 | 95.7 | 100.9 | 102.0 | 102.6 | 136.5 | | | | | |
| 315 | 77.9 | 81.7 | 81.2 | 85.7 | 85.1 | 86.4 | 87.3 | 90.0 | 93.7 | 98.8 | 103.2 | 105.4 | 104.9 | 139.2 | | | | | |
| 400 | 80.9 | 82.2 | 84.2 | 84.0 | 85.6 | 86.7 | 88.1 | 92.2 | 96.0 | 102.3 | 106.7 | 107.4 | 106.5 | 141.8 | | | | | |
| 500 | 81.3 | 82.8 | 84.3 | 85.1 | 86.2 | 88.0 | 90.2 | 92.8 | 97.3 | 104.9 | 108.8 | 109.2 | 107.3 | 143.6 | | | | | |
| 630 | 82.9 | 84.4 | 85.4 | 86.7 | 88.3 | 89.4 | 91.5 | 94.9 | 99.4 | 106.7 | 109.9 | 110.6 | 108.1 | 144.9 | | | | | |
| 800 | 85.4 | 86.4 | 86.4 | 88.2 | 89.5 | 90.9 | 92.8 | 96.7 | 101.7 | 108.5 | 112.2 | 111.6 | 109.7 | 146.7 | | | | | |
| 1000 | 90.2 | 90.7 | 91.0 | 91.6 | 92.2 | 94.1 | 98.0 | 101.5 | 108.8 | 113.3 | 111.2 | 110.7 | 110.7 | 147.3 | | | | | |
| 1250 | 88.0 | 89.6 | 91.3 | 91.6 | 92.1 | 94.1 | 95.2 | 98.9 | 102.8 | 107.9 | 111.9 | 112.3 | 110.3 | 146.9 | | | | | |
| 1600 | 87.4 | 88.9 | 89.4 | 90.0 | 91.3 | 93.7 | 95.1 | 98.2 | 102.9 | 107.3 | 111.0 | 110.6 | 109.7 | 146.0 | | | | | |
| 2000 | 88.2 | 89.5 | 91.0 | 90.3 | 92.1 | 94.0 | 95.8 | 99.5 | 103.3 | 104.7 | 107.4 | 107.0 | 105.1 | 145.7 | | | | | |
| 2500 | 87.0 | 88.3 | 90.1 | 91.4 | 92.5 | 93.3 | 96.2 | 99.9 | 103.3 | 104.7 | 107.4 | 107.0 | 105.1 | 143.4 | | | | | |
| 3150 | 87.2 | 88.8 | 89.8 | 91.1 | 92.2 | 93.5 | 95.7 | 99.8 | 103.6 | 104.4 | 107.1 | 105.8 | 103.8 | 143.1 | | | | | |
| 4000 | 86.0 | 88.8 | 89.8 | 91.1 | 92.2 | 93.1 | 95.4 | 100.1 | 102.6 | 104.2 | 106.4 | 104.8 | 101.8 | 142.5 | | | | | |
| 5000 | 86.4 | 89.2 | 90.2 | 90.5 | 92.3 | 93.7 | 95.3 | 100.2 | 102.2 | 103.6 | 107.0 | 103.9 | 101.4 | 142.5 | | | | | |
| 6300 | 85.7 | 88.5 | 89.8 | 90.8 | 92.4 | 94.0 | 95.6 | 99.3 | 102.3 | 103.9 | 106.3 | 104.0 | 102.8 | 142.5 | | | | | |
| 8000 | 84.7 | 88.6 | 88.9 | 90.4 | 92.9 | 94.1 | 95.7 | 98.9 | 101.6 | 103.0 | 105.4 | 103.5 | 102.6 | 142.1 | | | | | |
| 10000 | 83.6 | 89.0 | 89.8 | 90.3 | 92.6 | 93.0 | 94.9 | 98.1 | 100.3 | 101.7 | 103.4 | 103.2 | 103.0 | 141.4 | | | | | |
| 12500 | 81.3 | 88.0 | 89.1 | 90.1 | 91.4 | 92.0 | 93.8 | 96.6 | 98.4 | 100.1 | 101.2 | 101.3 | 101.8 | 140.2 | | | | | |
| 16000 | 79.8 | 86.8 | 87.5 | 88.9 | 90.7 | 91.3 | 92.5 | 95.4 | 97.7 | 98.2 | 100.4 | 100.1 | 100.6 | 139.9 | | | | | |
| 20000 | 77.5 | 84.3 | 85.9 | 86.3 | 89.8 | 88.9 | 90.7 | 92.8 | 95.7 | 96.0 | 97.8 | 96.7 | 97.6 | 138.5 | | | | | |
| 25000 | 74.6 | 82.3 | 83.5 | 84.5 | 86.0 | 86.0 | 87.5 | 89.3 | 93.0 | 92.6 | 95.9 | 93.0 | 93.1 | 136.9 | | | | | |
| 31500 | 71.8 | 80.1 | 82.0 | 83.0 | 84.7 | 84.0 | 84.7 | 87.8 | 90.3 | 89.1 | 93.1 | 90.7 | 90.9 | 136.6 | | | | | |
| 40000 | 65.6 | 75.2 | 78.5 | 78.8 | 79.7 | 79.7 | 79.9 | 83.7 | 85.8 | 85.4 | 89.0 | 86.3 | 86.4 | 133.6 | | | | | |
| 50000 | 58.9 | 68.8 | 72.4 | 72.5 | 71.9 | 73.2 | 73.4 | 76.5 | 78.5 | 79.4 | 83.8 | 79.6 | 78.2 | 133.5 | | | | | |
| 63000 | 51.5 | 61.9 | 67.0 | 65.7 | 65.5 | 65.9 | 66.0 | 69.3 | 72.5 | 72.8 | 76.9 | 71.6 | 72.1 | 132.9 | | | | | |
| 80000 | 46.6 | 58.8 | 64.6 | 61.6 | 60.8 | 61.4 | 60.8 | 61.4 | 66.7 | 66.3 | 72.4 | 64.6 | 65.6 | 137.0 | | | | | |
| OVERALL MEASURED | 98.5 | 100.9 | 102.0 | 102.7 | 104.2 | 105.3 | 107.1 | 110.7 | 114.1 | 117.8 | 121.3 | 120.8 | 119.4 | 156.8 | | | | | |
| OVERALL CALCULATED | 110.9 | 112.9 | 114.2 | 114.9 | 116.2 | 117.5 | 119.4 | 123.4 | 126.8 | 129.1 | 132.2 | 131.5 | 130.0 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 327 ACQUSTIC RANGE 12.2m(40ft.) ARC MODEL-71.3cm²(11.1in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 24 HR. 12.1

| RDG. NO. | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| NO EGA | 50 | 83.1 | 85.9 | 86.4 | 88.9 | 90.3 | 91.4 | 92.5 | 95.2 | 98.9 | 103.9 | 108.4 | 116.6 | 110.1 | 0. |
| 0. | 63 | 86.1 | 87.4 | 89.4 | 89.2 | 90.8 | 91.9 | 93.3 | 97.4 | 101.2 | 107.5 | 111.6 | 111.7 | 111.7 | 0. |
| RADIAL (40. M) | 80 | 86.5 | 88.0 | 89.5 | 90.3 | 91.4 | 93.2 | 95.4 | 96.0 | 102.5 | 110.1 | 114.0 | 114.6 | 112.5 | 0. |
| VEHICLE | 100 | 88.1 | 89.6 | 90.6 | 91.9 | 93.5 | 94.6 | 96.7 | 100.1 | 104.6 | 111.9 | 115.1 | 115.8 | 113.3 | 0. |
| CONFIG | 125 | 90.6 | 91.6 | 93.4 | 94.7 | 96.1 | 96.7 | 96.1 | 98.0 | 101.9 | 106.9 | 113.7 | 116.8 | 114.9 | 0. |
| LOC C41 ANECH CH | 160 | 95.4 | 95.9 | 96.2 | 96.2 | 96.8 | 97.4 | 99.3 | 103.2 | 106.7 | 114.0 | 118.5 | 116.4 | 115.9 | 0. |
| DATE 06-01-76 | 200 | 93.2 | 94.8 | 96.5 | 96.3 | 97.9 | 99.3 | 100.4 | 104.1 | 108.0 | 113.1 | 117.1 | 117.5 | 115.5 | 0. |
| TAPE X03270 | 250 | 92.6 | 94.1 | 94.7 | 95.2 | 96.5 | 98.9 | 100.3 | 103.4 | 108.2 | 112.5 | 116.2 | 115.9 | 114.9 | 0. |
| BAR 29.3 HG | 315 | 93.4 | 94.7 | 96.2 | 97.5 | 97.3 | 99.2 | 101.1 | 104.7 | 108.5 | 111.3 | 114.5 | 114.2 | 112.4 | 0. |
| TAPS (98975. N/M2) | 400 | 92.3 | 93.6 | 95.3 | 96.6 | 97.7 | 98.6 | 101.5 | 105.1 | 108.6 | 109.9 | 112.6 | 112.3 | 110.3 | 0. |
| TWET 61. DEG F | 500 | 92.5 | 94.1 | 95.9 | 96.4 | 97.5 | 98.8 | 101.0 | 105.1 | 109.1 | 109.7 | 112.4 | 111.1 | 109.1 | 0. |
| MACT13-12 GM/M3 | 630 | 92.1 | 94.2 | 95.2 | 96.5 | 97.5 | 98.4 | 100.8 | 105.5 | 107.9 | 109.5 | 111.7 | 110.1 | 107.2 | 0. |
| FREQ. SWIFT | 800 | 91.8 | 94.6 | 95.6 | 95.9 | 97.7 | 99.1 | 100.7 | 105.6 | 107.6 | 108.9 | 112.4 | 109.3 | 106.8 | 0. |
| DIAMETER RATIO | 1000 | 91.2 | 94.0 | 95.3 | 96.3 | 97.9 | 99.5 | 101.1 | 104.8 | 107.8 | 109.4 | 111.8 | 109.5 | 108.2 | 0. |
| DF/DH 6.81 | 1250 | 90.4 | 94.2 | 94.5 | 96.0 | 98.6 | 99.7 | 101.4 | 104.5 | 107.3 | 108.6 | 111.1 | 109.2 | 108.2 | 0. |
| | 1600 | 89.5 | 94.9 | 95.7 | 96.2 | 98.5 | 98.9 | 100.8 | 104.0 | 106.2 | 107.6 | 109.3 | 109.1 | 108.9 | 0. |
| | 2000 | 87.5 | 94.3 | 95.4 | 96.4 | 97.7 | 98.3 | 100.1 | 102.9 | 104.7 | 106.3 | 107.5 | 107.6 | 108.0 | 0. |
| | 2500 | 86.7 | 93.8 | 94.4 | 95.9 | 97.5 | 98.3 | 99.5 | 102.4 | 104.7 | 105.2 | 107.3 | 107.1 | 107.5 | 0. |
| | 3150 | 85.3 | 92.0 | 93.7 | 94.0 | 97.6 | 96.6 | 96.4 | 100.6 | 103.4 | 103.7 | 105.6 | 104.5 | 105.4 | 0. |
| | 4000 | 83.4 | 91.2 | 92.3 | 93.4 | 94.9 | 94.9 | 96.4 | 98.2 | 101.9 | 101.5 | 104.8 | 101.9 | 101.9 | 0. |
| | 5000 | 82.7 | 91.0 | 92.9 | 93.8 | 95.6 | 94.8 | 95.6 | 98.6 | 101.2 | 103.0 | 103.9 | 101.6 | 101.8 | 0. |
| | 6300 | 79.1 | 88.7 | 92.0 | 92.3 | 93.2 | 93.2 | 93.4 | 97.2 | 99.3 | 98.9 | 102.5 | 99.9 | 99.9 | 0. |
| | 8000 | 75.8 | 83.8 | 89.3 | 89.4 | 88.8 | 90.1 | 90.3 | 93.4 | 95.4 | 96.3 | 100.7 | 96.5 | 95.1 | 0. |
| | 10000 | 73.5 | 83.8 | 88.9 | 87.6 | 87.4 | 87.8 | 87.9 | 91.2 | 94.4 | 94.7 | 98.0 | 93.5 | 94.1 | 0. |
| | 12500 | 76.0 | 88.2 | 94.0 | 91.0 | 90.2 | 90.8 | 90.2 | 90.8 | 96.1 | 95.7 | 101.9 | 96.0 | 95.1 | 0. |
| OVERALL CALCULATED | | 103.9 | 106.7 | 108.0 | 108.6 | 110.1 | 111.0 | 112.8 | 116.3 | 119.6 | 123.1 | 126.6 | 126.0 | 124.6 | 0. |
| PNDB | | 112.5 | 118.2 | 119.5 | 120.3 | 122.2 | 122.6 | 124.0 | 127.2 | 130.0 | 131.6 | 134.6 | 133.5 | 133.0 | 0. |

ANECHOIC-JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 327 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in.²)

| NO EGA
SIDELINE 2500. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | |
|--|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | 210. | 220. | 230. | 240. | 250. | | | |
| FREQ. | (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) | (2.97) | (3.14) | (3.32) | (3.49) | (3.67) | (3.84) | (4.02) | (4.19) | (4.37) | (4.54) | | |
| 50 | 54.9 | 60.3 | 60.9 | 64.1 | 65.9 | 67.4 | 68.1 | 70.4 | 73.4 | 77.3 | 80.2 | 80.1 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | |
| 63 | 57.9 | 60.7 | 63.8 | 64.4 | 66.4 | 67.6 | 68.9 | 72.6 | 75.6 | 80.8 | 83.7 | 82.1 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | |
| 80 | 58.1 | 61.2 | 63.9 | 63.4 | 66.9 | 68.9 | 70.9 | 73.1 | 76.9 | 83.3 | 85.7 | 83.8 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 |
| 100 | 59.6 | 62.8 | 64.9 | 66.9 | 68.9 | 70.2 | 72.2 | 75.2 | 78.9 | 85.1 | 86.7 | 85.0 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 |
| MFA (1. RPM) | 64.7 | 65.8 | 68.3 | 70.1 | 71.6 | 73.4 | 75.4 | 76.8 | 81.1 | 86.7 | 88.8 | 85.9 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 |
| (0. RAD/SEC) | 66.7 | 68.9 | 70.3 | 71.1 | 72.1 | 72.8 | 74.6 | 78.1 | 80.8 | 86.9 | 89.7 | 85.2 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 |
| MFA (1. RPM) | 64.3 | 67.5 | 70.5 | 71.5 | 73.0 | 74.5 | 75.5 | 78.8 | 82.0 | 85.9 | 88.1 | 86.1 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 |
| (0. RAD/SEC) | 63.4 | 66.7 | 68.4 | 69.7 | 71.5 | 74.0 | 75.2 | 77.9 | 81.9 | 85.0 | 87.0 | 84.1 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 |
| MFD (7500. RPM) | 63.9 | 66.9 | 69.7 | 69.8 | 72.1 | 74.1 | 75.8 | 79.0 | 81.9 | 83.5 | 84.9 | 81.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 |
| (785. RAD/SEC) | 62.3 | 65.4 | 68.5 | 70.6 | 72.2 | 73.2 | 75.9 | 79.1 | 81.7 | 81.8 | 82.6 | 79.5 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 |
| AIRFLOW RATIO | 62.0 | 65.5 | 68.6 | 70.0 | 71.6 | 73.1 | 75.1 | 78.8 | 81.9 | 81.1 | 81.9 | 77.6 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 |
| W/FPM 6.81 | 65.9 | 65.0 | 67.5 | 69.6 | 71.2 | 72.3 | 74.5 | 78.6 | 80.2 | 80.4 | 80.5 | 75.8 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 |
| 800 | 59.6 | 64.7 | 67.2 | 68.4 | 70.8 | 72.3 | 73.8 | 78.2 | 79.2 | 79.1 | 80.3 | 73.7 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 |
| VEHICLE CELL41 | 58.0 | 63.2 | 66.1 | 66.1 | 70.3 | 72.1 | 73.5 | 76.6 | 78.6 | 78.6 | 78.6 | 72.5 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 |
| CONFIG NC41 | 55.8 | 62.3 | 64.3 | 67.0 | 70.2 | 71.5 | 72.9 | 75.5 | 77.1 | 76.7 | 76.5 | 70.5 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 |
| LOC C41 ANECH CH | 53.0 | 61.4 | 64.1 | 65.8 | 68.8 | 69.4 | 71.1 | 73.6 | 74.1 | 72.8 | 67.9 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 |
| DATE 06-01-76 | 48.8 | 58.8 | 62.1 | 65.5 | 66.5 | 67.4 | 68.9 | 71.0 | 71.4 | 70.9 | 68.7 | 63.4 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 |
| RUN CONFLOWFLWC | 44.6 | 55.5 | 58.7 | 61.7 | 64.4 | 65.2 | 66.2 | 68.2 | 68.9 | 66.9 | 65.1 | 58.5 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| TAPE X03270 | 37.7 | 49.3 | 54.0 | 56.3 | 60.8 | 60.2 | 61.7 | 62.8 | 63.8 | 61.0 | 58.1 | 48.9 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 |
| FAN TIP SPEED | 27.8 | 41.8 | 46.7 | 50.2 | 53.0 | 53.6 | 54.5 | 55.0 | 56.3 | 52.1 | 49.2 | 35.8 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 4000 | 27.8 | 41.8 | 46.7 | 50.2 | 53.0 | 53.6 | 54.5 | 55.0 | 56.3 | 52.1 | 49.2 | 35.8 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 5000 | 22.4 | 37.6 | 43.9 | 47.5 | 50.7 | 50.4 | 50.7 | 52.3 | 52.1 | 46.6 | 43.6 | 29.5 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 6300 | 5.1 | 23.9 | 33.0 | 36.8 | 39.5 | 40.1 | 39.8 | 41.6 | 40.2 | 34.1 | 28.4 | 9.9 | | | | | | | | | | | | | |
| 8000 | 3.3 | 14.8 | 19.7 | 21.6 | 23.8 | 23.2 | 23.7 | 23.7 | 23.7 | 20.9 | 14.0 | 5.6 | | | | | | | | | | | | | |
| 10000 | | | | 1.5 | 3.1 | 3.1 | 2.1 | 1.8 | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 73.6 | 77.1 | 79.4 | 80.9 | 82.8 | 84.3 | 85.9 | 89.2 | 91.9 | 95.1 | 97.0 | 94.2 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 |
| PND5 | 77.1 | 82.6 | 85.5 | 87.6 | 90.0 | 91.0 | 92.6 | 95.4 | 97.7 | 99.0 | 100.2 | 96.7 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 327 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in.²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70-PERCENT REL. HUM. DAY--JENOTS)

| RDG. NO. | NO. 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|--|
| VEHICLE | 74.4 | 84.2 | 83.5 | 84.5 | 85.2 | 85.0 | 86.7 | 87.2 | 89.5 | 93.2 | 91.9 | 94.2 | 129.9 | | | | |
| CONFIG | 75.1 | 80.4 | 82.2 | 83.7 | 84.1 | 85.0 | 86.4 | 85.1 | 85.4 | 92.9 | 94.1 | 94.1 | 129.4 | | | | |
| LOC | 77.5 | 80.0 | 81.8 | 82.7 | 82.5 | 83.9 | 84.2 | 87.1 | 91.5 | 95.4 | 95.9 | 96.9 | 131.2 | | | | |
| DATE | 77.6 | 81.6 | 83.2 | 84.6 | 87.2 | 88.9 | 87.1 | 90.0 | 94.4 | 97.8 | 101.0 | 101.8 | 135.0 | | | | |
| RUN | 79.2 | 82.7 | 84.5 | 86.1 | 86.7 | 87.6 | 90.5 | 94.2 | 99.5 | 104.2 | 106.6 | 106.2 | 137.2 | | | | |
| TAPE | 82.3 | 85.0 | 85.6 | 86.9 | 88.5 | 90.4 | 94.1 | 98.0 | 105.6 | 109.3 | 110.2 | 108.0 | 140.3 | | | | |
| BAR | 83.6 | 85.4 | 87.2 | 88.8 | 89.9 | 92.0 | 95.2 | 99.6 | 106.7 | 110.7 | 111.6 | 109.4 | 144.3 | | | | |
| TAMB | 85.6 | 86.7 | 87.2 | 88.4 | 90.0 | 91.2 | 93.5 | 96.9 | 100.4 | 108.0 | 111.9 | 110.9 | 145.7 | | | | |
| TWET | 88.0 | 89.3 | 90.6 | 92.4 | 94.1 | 95.2 | 99.1 | 102.1 | 106.9 | 109.4 | 111.8 | 109.3 | 146.4 | | | | |
| HACT | 87.1 | 89.2 | 89.9 | 91.8 | 93.7 | 94.8 | 98.0 | 102.4 | 106.3 | 108.0 | 110.1 | 108.2 | 144.6 | | | | |
| FREQ. | 86.8 | 88.3 | 90.1 | 91.4 | 93.0 | 94.1 | 95.7 | 99.6 | 102.6 | 104.7 | 105.4 | 104.8 | 142.6 | | | | |
| SHIFT | 87.0 | 88.5 | 90.3 | 91.3 | 93.5 | 95.9 | 99.6 | 102.1 | 103.7 | 104.1 | 104.8 | 101.6 | 141.8 | | | | |
| JET | 86.4 | 88.7 | 89.5 | 92.1 | 93.7 | 95.6 | 99.5 | 101.7 | 103.3 | 105.8 | 103.9 | 101.4 | 141.9 | | | | |
| RATIO | 84.9 | 87.8 | 89.5 | 91.1 | 92.6 | 94.3 | 95.9 | 99.1 | 101.5 | 103.2 | 105.8 | 104.0 | 142.1 | | | | |
| DF/DH | 84.7 | 87.3 | 88.9 | 90.4 | 92.9 | 94.3 | 95.7 | 98.9 | 101.6 | 103.0 | 105.4 | 103.2 | 141.9 | | | | |
| MEASURED | 81.3 | 86.5 | 88.4 | 89.6 | 91.7 | 92.3 | 94.1 | 97.3 | 98.1 | 99.6 | 103.2 | 101.0 | 140.7 | | | | |
| CALCULATED | 79.6 | 86.1 | 87.5 | 88.4 | 91.0 | 91.6 | 93.0 | 95.9 | 98.5 | 97.7 | 101.1 | 100.6 | 140.0 | | | | |
| OVERALL MEASURED | 76.8 | 83.3 | 85.7 | 86.8 | 89.9 | 91.4 | 93.6 | 96.0 | 95.0 | 97.6 | 96.0 | 98.6 | 136.5 | | | | |
| OVERALL CALCULATED | 73.1 | 81.1 | 82.2 | 84.3 | 86.7 | 86.5 | 89.6 | 93.0 | 91.4 | 96.2 | 92.0 | 93.6 | 136.8 | | | | |
| | 70.1 | 77.9 | 80.3 | 82.2 | 85.2 | 85.4 | 87.8 | 90.1 | 87.9 | 92.3 | 90.7 | 91.4 | 135.4 | | | | |
| | 64.1 | 72.7 | 77.8 | 79.4 | 79.7 | 80.4 | 84.2 | 85.8 | 84.4 | 88.5 | 86.1 | 86.9 | 133.4 | | | | |
| | 57.4 | 67.3 | 71.7 | 71.9 | 72.7 | 73.4 | 77.3 | 79.0 | 78.9 | 82.8 | 79.3 | 79.4 | 133.2 | | | | |
| | 51.0 | 61.1 | 66.5 | 65.2 | 65.4 | 66.3 | 70.0 | 72.5 | 71.3 | 75.6 | 70.8 | 72.1 | 132.3 | | | | |
| | 46.6 | 58.3 | 64.4 | 61.1 | 60.5 | 61.2 | 61.9 | 66.4 | 65.1 | 72.2 | 64.1 | 65.6 | 136.7 | | | | |
| | 100.6 | 101.8 | 102.8 | 104.5 | 105.6 | 107.3 | 110.7 | 113.6 | 117.4 | 120.3 | 121.3 | 119.6 | 156.6 | | | | |
| | 110.5 | 112.7 | 114.1 | 115.1 | 116.8 | 117.7 | 119.7 | 123.2 | 126.2 | 129.0 | 130.9 | 131.8 | 129.8 | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3±8 ACUUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11.1in²)

| ADG. NO. | NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | PUL |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 84.3 | 87.9 | 86.9 | 89.7 | 91.3 | 91.9 | 92.6 | 95.7 | 99.4 | 104.7 | 109.4 | 111.8 | 111.4 | 156.9 |
| 63 | 89.1 | 88.2 | 89.7 | 90.9 | 91.5 | 92.7 | 94.0 | 97.4 | 101.2 | 108.0 | 112.2 | 113.6 | 112.4 | 159.0 |
| 80 | 87.5 | 85.5 | 90.2 | 89.8 | 92.1 | 93.7 | 95.6 | 99.3 | 103.2 | 110.8 | 114.5 | 115.4 | 113.2 | 161.0 |
| 100 | 88.8 | 90.6 | 90.8 | 92.4 | 94.0 | 95.1 | 97.2 | 100.4 | 104.8 | 111.9 | 115.9 | 116.8 | 114.6 | 162.3 |
| 125 | 90.8 | 91.9 | 92.4 | 93.6 | 95.2 | 96.4 | 98.7 | 102.1 | 105.6 | 113.2 | 117.1 | 118.3 | 116.1 | 163.7 |
| 160 | 94.9 | 95.9 | 96.7 | 96.5 | 97.3 | 97.9 | 98.6 | 102.7 | 105.9 | 112.8 | 116.2 | 117.1 | 115.9 | 165.1 |
| 200 | 93.2 | 94.5 | 95.8 | 96.1 | 97.7 | 99.3 | 100.4 | 104.3 | 107.3 | 112.1 | 114.6 | 117.0 | 114.5 | 162.4 |
| 250 | 92.4 | 94.4 | 94.2 | 95.7 | 97.0 | 98.9 | 100.0 | 103.2 | 107.7 | 111.5 | 113.2 | 115.4 | 113.4 | 161.3 |
| 315 | 93.2 | 94.2 | 95.7 | 95.7 | 97.3 | 98.7 | 101.6 | 104.5 | 108.0 | 110.8 | 112.2 | 113.9 | 111.4 | 160.5 |
| 400 | 92.0 | 93.6 | 95.3 | 96.6 | 98.2 | 99.3 | 101.0 | 104.9 | 107.8 | 109.9 | 110.6 | 112.8 | 110.1 | 159.6 |
| 500 | 92.3 | 93.8 | 95.6 | 96.6 | 98.5 | 98.8 | 101.0 | 105.1 | 108.1 | 109.9 | 110.4 | 111.6 | 109.1 | 159.3 |
| 630 | 91.6 | 93.7 | 94.9 | 96.0 | 97.3 | 98.7 | 101.3 | 105.0 | 107.4 | 109.0 | 109.5 | 110.1 | 106.9 | 158.4 |
| 800 | 91.8 | 94.1 | 94.8 | 96.1 | 97.4 | 99.1 | 100.9 | 104.9 | 107.1 | 108.7 | 111.1 | 109.3 | 106.8 | 158.6 |
| 1000 | 90.4 | 93.2 | 95.0 | 96.5 | 98.1 | 99.7 | 101.4 | 104.5 | 107.0 | 108.6 | 111.3 | 109.5 | 108.0 | 158.8 |
| 1250 | 90.4 | 93.0 | 94.5 | 96.0 | 98.6 | 100.0 | 101.4 | 104.5 | 107.3 | 108.6 | 111.1 | 108.5 | 109.0 | 158.7 |
| 1600 | 89.0 | 93.6 | 95.2 | 96.2 | 99.0 | 99.4 | 101.0 | 104.7 | 106.5 | 107.1 | 111.0 | 109.4 | 109.1 | 158.6 |
| 2000 | 87.5 | 92.8 | 94.7 | 95.9 | 97.9 | 98.5 | 100.3 | 103.6 | 104.4 | 105.8 | 109.5 | 107.3 | 108.5 | 157.3 |
| 2500 | 86.5 | 93.0 | 94.4 | 95.4 | 97.9 | 98.5 | 100.0 | 102.9 | 105.4 | 104.7 | 108.0 | 106.1 | 107.5 | 156.7 |
| 3150 | 84.5 | 91.0 | 93.4 | 94.5 | 97.8 | 97.6 | 99.2 | 101.3 | 103.7 | 102.7 | 105.3 | 103.7 | 106.4 | 155.2 |
| 4000 | 81.9 | 90.0 | 91.1 | 93.2 | 95.6 | 95.6 | 96.4 | 98.4 | 101.9 | 100.3 | 105.1 | 100.9 | 102.4 | 153.5 |
| 5000 | 80.9 | 88.7 | 91.1 | 93.1 | 96.1 | 94.8 | 96.3 | 98.6 | 100.9 | 98.7 | 103.2 | 101.6 | 102.5 | 153.0 |
| 6300 | 77.6 | 86.2 | 91.0 | 91.3 | 92.9 | 93.2 | 93.9 | 97.7 | 99.3 | 97.9 | 102.0 | 99.6 | 100.4 | 152.0 |
| 8000 | 74.3 | 84.1 | 88.6 | 88.4 | 88.8 | 89.6 | 90.3 | 94.2 | 95.9 | 95.8 | 99.7 | 96.2 | 96.3 | 149.9 |
| 10000 | 72.9 | 83.1 | 88.4 | 87.1 | 87.1 | 87.3 | 88.2 | 92.0 | 94.4 | 93.2 | 97.6 | 92.8 | 94.1 | 149.0 |
| 12500 | 70.0 | 87.7 | 93.8 | 90.5 | 89.9 | 90.6 | 90.4 | 91.3 | 95.8 | 94.5 | 101.6 | 93.5 | 95.1 | 153.6 |
| PHDB | 112.5 | 117.4 | 119.1 | 120.1 | 122.5 | 122.9 | 124.6 | 127.5 | 130.1 | 131.1 | 134.2 | 133.2 | 133.1 | 173.1 |

OVERALL CALCULATED 103.6 106.1 107.7 108.5 110.4 111.3 113.0 116.4 119.2 122.7 125.6 126.5 124.7

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 328 ACOUSTIC RANGE 45.7m(150ft.) ARC
 SIZE FULL-33m²(513in.²)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | |
|--------------------|---|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. |
| FREQ. | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) |
| 50 | 56.2 | 61.3 | 61.4 | 64.9 | 66.9 |
| 63 | 57.9 | 61.5 | 64.1 | 65.1 | 67.1 |
| 80 | 59.1 | 61.7 | 64.6 | 65.9 | 67.6 |
| 100 | 60.4 | 63.8 | 65.1 | 67.4 | 69.4 |
| 125 | 62.3 | 64.9 | 66.6 | 68.6 | 70.6 |
| 160 | 66.2 | 68.9 | 70.3 | 71.3 | 72.6 |
| 200 | 64.3 | 67.3 | 69.7 | 70.8 | 72.8 |
| 250 | 63.1 | 66.9 | 67.9 | 70.2 | 72.0 |
| 315 | 63.6 | 66.4 | 69.2 | 70.0 | 72.1 |
| 400 | 62.0 | 65.4 | 68.5 | 70.6 | 72.7 |
| 500 | 61.8 | 65.3 | 68.4 | 70.3 | 72.6 |
| 630 | 60.4 | 64.3 | 67.2 | 69.1 | 71.0 |
| 800 | 59.6 | 64.2 | 66.4 | 68.7 | 70.6 |
| 1000 | 57.2 | 62.5 | 65.8 | 63.4 | 70.5 |
| 1250 | 55.8 | 61.0 | 64.3 | 67.0 | 72.9 |
| 1600 | 52.5 | 60.1 | 63.6 | 65.8 | 69.3 |
| 2000 | 48.8 | 57.3 | 61.4 | 64.0 | 66.8 |
| 2500 | 44.3 | 54.8 | 58.7 | 61.2 | 64.6 |
| 3150 | 37.0 | 48.3 | 53.7 | 56.8 | 61.1 |
| 4000 | 26.3 | 40.5 | 45.5 | 50.0 | 53.7 |
| 5000 | 20.6 | 35.4 | 42.1 | 46.7 | 51.2 |
| 6300 | 3.6 | 21.4 | 32.0 | 35.8 | 39.3 |
| 10000 | 1.8 | 14.1 | 18.7 | 21.6 | 23.3 |
| 12500 | | 1.3 | 2.6 | 2.6 | 2.5 |
| PNDB | 73.6 | 76.9 | 79.3 | 81.0 | 83.1 |
| OVERALL CALCULATED | 76.9 | 81.9 | 85.2 | 87.5 | 90.3 |
| | | | | 86.1 | 89.1 |
| | | | | 91.4 | 94.7 |
| | | | | 95.7 | 97.2 |
| | | | | 98.4 | 98.8 |
| | | | | 96.0 | 96.7 |
| | | | | 89.0 | 89.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 28 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL - 33m²(513in.²) SIZE

RDG. NO. 0. 80
 RADIAL (12. M)
 VEHICLE CELL41
 CONFIG NC41
 LOC C41 ANECH CH
 DATE 06-01-76
 RUN CONF3LOWFLWC
 TAPE 29.3 HG
 BAR (98975. N/M2)
 TAMB 64. DEG F
 TNET (291. DEG K)
 TNET 62. DEG F
 (290. DEG K)
 HACT13.59 GM/M3
 (.01359 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 DF/DH 1

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 100 | 76.1 | 85.7 | 83.9 | 85.0 | 86.5 | 86.7 | 87.3 | 88.2 | 88.7 | 91.0 | 94.4 | 93.9 | 95.9 | 131.5 | | | |
| 125 | 75.6 | 79.6 | 81.4 | 83.2 | 85.5 | 86.9 | 87.2 | 88.9 | 87.1 | 86.7 | 95.4 | 98.6 | 96.6 | 131.8 | | | |
| 160 | 77.1 | 79.7 | 82.2 | 82.2 | 83.3 | 83.2 | 83.5 | 86.0 | 88.4 | 86.7 | 97.4 | 98.6 | 99.9 | 133.6 | | | |
| 200 | 79.5 | 80.0 | 81.8 | 83.6 | 84.4 | 84.8 | 85.7 | 88.8 | 91.8 | 96.1 | 99.3 | 103.3 | 103.8 | 137.0 | | | |
| 250 | 78.8 | 82.1 | 83.3 | 83.4 | 85.0 | 86.1 | 88.5 | 90.9 | 93.6 | 98.4 | 103.9 | 105.5 | 105.6 | 139.6 | | | |
| 315 | 80.7 | 85.9 | 83.7 | 85.5 | 87.6 | 88.4 | 89.3 | 92.7 | 96.2 | 101.3 | 106.2 | 108.6 | 107.7 | 142.1 | | | |
| 400 | 82.9 | 84.5 | 86.5 | 86.5 | 88.1 | 89.2 | 90.6 | 94.0 | 98.2 | 104.8 | 109.0 | 110.2 | 108.7 | 144.2 | | | |
| 500 | 83.6 | 84.8 | 86.3 | 87.1 | 88.9 | 90.8 | 92.4 | 95.8 | 99.8 | 107.4 | 111.3 | 112.2 | 109.6 | 140.3 | | | |
| 630 | 85.1 | 87.1 | 87.4 | 88.7 | 90.0 | 91.6 | 94.0 | 97.2 | 101.9 | 108.5 | 112.7 | 113.3 | 111.4 | 147.6 | | | |
| 800 | 87.4 | 87.9 | 88.9 | 89.9 | 91.5 | 92.9 | 95.3 | 98.2 | 102.9 | 109.2 | 113.7 | 114.1 | 112.4 | 148.5 | | | |
| 1000 | 91.5 | 92.0 | 92.7 | 93.0 | 93.9 | 94.5 | 96.4 | 99.5 | 103.5 | 108.3 | 112.3 | 112.4 | 112.0 | 147.5 | | | |
| 1250 | 89.3 | 91.1 | 93.3 | 92.6 | 93.9 | 95.8 | 97.2 | 100.1 | 104.3 | 107.1 | 111.1 | 112.8 | 111.1 | 147.0 | | | |
| 1600 | 89.7 | 90.7 | 92.5 | 92.6 | 94.1 | 95.7 | 97.3 | 99.5 | 104.9 | 107.3 | 110.0 | 111.4 | 109.9 | 146.2 | | | |
| 2500 | 88.5 | 90.3 | 92.1 | 93.1 | 94.7 | 95.3 | 98.0 | 101.6 | 105.1 | 106.2 | 107.9 | 108.8 | 106.1 | 144.8 | | | |
| 3150 | 89.0 | 90.5 | 92.1 | 92.8 | 94.4 | 95.5 | 97.7 | 101.6 | 105.3 | 106.6 | 108.3 | 107.8 | 105.3 | 144.3 | | | |
| 4000 | 88.3 | 90.1 | 91.3 | 92.4 | 93.9 | 95.3 | 97.2 | 101.6 | 104.6 | 106.4 | 107.4 | 107.3 | 102.6 | 144.1 | | | |
| 5000 | 87.9 | 90.4 | 91.5 | 93.2 | 93.8 | 95.9 | 97.6 | 102.0 | 103.7 | 106.6 | 107.3 | 106.4 | 102.9 | 144.2 | | | |
| 6300 | 87.7 | 91.3 | 91.5 | 93.1 | 94.9 | 96.5 | 98.4 | 101.8 | 104.3 | 106.2 | 106.8 | 106.0 | 103.8 | 144.4 | | | |
| 8000 | 88.2 | 92.1 | 91.6 | 92.9 | 94.9 | 96.6 | 98.7 | 101.9 | 103.6 | 106.2 | 106.9 | 105.5 | 103.8 | 144.6 | | | |
| 10000 | 87.6 | 95.0 | 93.6 | 93.0 | 95.4 | 95.0 | 97.4 | 101.8 | 103.3 | 105.2 | 106.1 | 105.2 | 103.7 | 142.9 | | | |
| 12500 | 85.8 | 92.7 | 93.1 | 93.6 | 94.4 | 95.0 | 96.8 | 100.1 | 101.4 | 102.8 | 103.9 | 103.8 | 102.2 | 142.6 | | | |
| 16000 | 83.6 | 91.3 | 92.0 | 94.2 | 94.7 | 94.3 | 95.8 | 98.9 | 100.7 | 101.0 | 102.3 | 102.4 | 101.3 | 141.0 | | | |
| 20000 | 80.7 | 87.5 | 88.9 | 90.8 | 93.5 | 92.4 | 94.1 | 96.1 | 98.9 | 98.4 | 99.1 | 99.0 | 98.9 | 139.4 | | | |
| 25000 | 77.5 | 85.8 | 86.1 | 87.5 | 89.7 | 89.9 | 90.4 | 92.8 | 95.9 | 95.3 | 97.1 | 94.7 | 93.8 | 139.2 | | | |
| 31500 | 74.7 | 82.5 | 85.2 | 86.6 | 88.4 | 87.4 | 88.4 | 91.2 | 93.2 | 92.5 | 94.3 | 92.4 | 91.9 | 136.2 | | | |
| 40000 | 69.8 | 77.6 | 80.9 | 82.5 | 83.1 | 82.8 | 83.1 | 87.4 | 89.0 | 88.8 | 90.6 | 87.5 | 87.6 | 136.1 | | | |
| 50000 | 64.3 | 71.1 | 74.5 | 75.6 | 75.2 | 76.1 | 76.0 | 80.7 | 82.1 | 83.5 | 84.7 | 81.9 | 79.8 | 135.7 | | | |
| 63000 | 58.9 | 63.5 | 68.3 | 68.0 | 67.6 | 68.5 | 68.6 | 73.1 | 75.6 | 78.1 | 78.2 | 74.2 | 72.0 | 139.5 | | | |
| 80000 | 55.9 | 58.9 | 64.9 | 62.6 | 61.6 | 62.5 | 62.3 | 66.7 | 69.7 | 73.3 | 73.0 | 66.4 | 65.7 | 158.4 | | | |

OVERALL MEASURED
 OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACQUSTIC RANGE SIZE
 3 329 12.2m(40ft.) ARC MODEL-71.3cm²(11.1in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 85.8 | 89.1 | 88.9 | 90.7 | (1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0.) (3.0.) (3.0.) | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 158.8 |
| 60 | 88.1 | 89.7 | 91.7 | 91.7 | 93.3 | 94.4 | 95.8 | 99.2 | 103.4 | 110.0 | 116.2 | 115.4 | 113.9 | 160.9 |
| 80 | 89.0 | 90.0 | 91.5 | 92.3 | 94.1 | 96.0 | 97.6 | 101.0 | 105.0 | 112.6 | 116.5 | 117.4 | 115.0 | 162.9 |
| 100 | 90.3 | 92.3 | 93.6 | 93.9 | 95.2 | 96.8 | 99.2 | 102.4 | 107.1 | 113.7 | 117.9 | 118.5 | 116.6 | 165.1 |
| 125 | 92.6 | 93.1 | 94.1 | 95.1 | 96.7 | 98.1 | 100.5 | 103.4 | 108.1 | 114.4 | 118.9 | 119.3 | 117.6 | 163.7 |
| 160 | 96.7 | 97.2 | 97.9 | 98.2 | 99.1 | 99.7 | 101.6 | 104.7 | 108.7 | 113.5 | 117.5 | 117.6 | 117.2 | 161.9 |
| 200 | 94.5 | 96.3 | 98.5 | 97.3 | 99.2 | 101.0 | 102.4 | 105.3 | 109.5 | 112.5 | 115.2 | 116.6 | 115.1 | 161.5 |
| 250 | 94.4 | 95.9 | 95.9 | 96.9 | 98.8 | 100.9 | 102.5 | 104.7 | 110.2 | 112.5 | 114.2 | 114.9 | 112.7 | 160.9 |
| 315 | 94.9 | 95.9 | 97.7 | 98.0 | 99.3 | 100.7 | 103.3 | 106.0 | 110.0 | 111.5 | 111.4 | 111.0 | 111.3 | 160.8 |
| 400 | 93.8 | 95.6 | 97.3 | 98.4 | 100.0 | 100.6 | 103.2 | 106.9 | 110.3 | 111.4 | 111.9 | 113.6 | 110.6 | 160.9 |
| 500 | 94.5 | 95.8 | 97.4 | 98.1 | 99.7 | 100.8 | 102.6 | 107.0 | 109.9 | 111.8 | 112.7 | 112.6 | 107.9 | 160.9 |
| 630 | 93.6 | 95.4 | 96.7 | 97.7 | 99.3 | 100.7 | 102.6 | 107.0 | 109.9 | 111.8 | 112.7 | 112.6 | 107.9 | 160.9 |
| 800 | 93.3 | 95.8 | 96.8 | 98.6 | 99.2 | 101.3 | 102.9 | 107.4 | 109.1 | 111.9 | 112.6 | 111.8 | 108.3 | 160.9 |
| 1000 | 93.2 | 96.7 | 97.0 | 98.5 | 100.4 | 102.0 | 103.9 | 107.3 | 109.8 | 111.6 | 112.3 | 111.5 | 109.2 | 161.0 |
| 1250 | 93.9 | 97.7 | 97.3 | 98.5 | 100.6 | 102.2 | 104.3 | 107.5 | 109.3 | 111.9 | 112.6 | 111.2 | 109.5 | 160.9 |
| 1600 | 93.5 | 100.9 | 99.5 | 99.0 | 101.3 | 100.9 | 103.3 | 107.7 | 109.2 | 111.1 | 112.0 | 111.1 | 109.6 | 160.9 |
| 2000 | 92.0 | 99.0 | 99.4 | 99.9 | 100.7 | 101.3 | 103.1 | 106.4 | 107.7 | 109.1 | 110.2 | 110.1 | 108.5 | 159.6 |
| 2500 | 90.7 | 98.2 | 98.9 | 101.1 | 101.6 | 101.2 | 102.7 | 105.6 | 107.7 | 107.9 | 109.3 | 108.2 | 108.2 | 157.7 |
| 3150 | 88.5 | 95.3 | 96.6 | 98.5 | 101.3 | 100.1 | 101.9 | 103.8 | 106.7 | 106.2 | 106.8 | 106.7 | 106.6 | 156.0 |
| 4000 | 86.4 | 94.7 | 95.0 | 96.3 | 98.6 | 98.8 | 99.3 | 101.6 | 104.8 | 104.2 | 106.0 | 103.6 | 102.6 | 155.9 |
| 5000 | 85.6 | 93.4 | 96.0 | 97.5 | 99.3 | 98.2 | 99.2 | 102.0 | 104.1 | 103.4 | 105.1 | 103.2 | 102.7 | 152.8 |
| 6300 | 83.3 | 91.1 | 94.4 | 96.0 | 96.6 | 96.3 | 96.6 | 100.9 | 102.5 | 102.3 | 104.1 | 101.0 | 101.1 | 152.4 |
| 8000 | 81.2 | 88.0 | 91.4 | 92.5 | 92.1 | 93.0 | 92.9 | 97.6 | 99.0 | 100.4 | 101.6 | 98.8 | 96.7 | 156.2 |
| 10000 | 80.8 | 85.4 | 90.2 | 90.0 | 89.5 | 90.4 | 90.5 | 95.0 | 97.5 | 100.0 | 100.1 | 96.1 | 93.9 | 175.0 |
| 12500 | 85.3 | 88.3 | 94.3 | 92.0 | 91.0 | 91.9 | 91.7 | 96.1 | 99.1 | 102.7 | 102.4 | 95.8 | 95.1 | |
| OVERALL CALCULATED | 105.9 | 109.4 | 110.5 | 111.2 | 112.6 | 113.4 | 115.2 | 118.6 | 121.7 | 124.6 | 127.4 | 127.9 | 126.2 | |
| PNDB | 116.0 | 121.6 | 122.6 | 124.0 | 125.3 | 125.3 | 126.9 | 130.1 | 132.6 | 134.0 | 135.7 | 135.5 | 134.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
 3 329 45.7m(150ft.) ARC FULL-.33m²(513in.²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP, DEG. F, 70 PERCENT REL. HUM. DAY)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | MFA
(0. RAD/SEC) | NFK
(1. RPH) | NFD
(0. RAD/SEC) | AIRFLOW RATIO
WF/NM 0.81 | VEHICLE
CONFIG | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP, DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|--|----------------------|------------------|----------------------|-----------------------------|-------------------|---|------|------|------|-------|-------|------|------|------|------|------|------|
| | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| 50 | 57.7 | 62.5 | 63.4 | 65.9 | 68.4 | 69.4 | 70.1 | 73.1 | 75.9 | 79.8 | 83.2 | 85.4 | 79.0 | 160. | | | |
| 63 | 59.9 | 63.0 | 66.1 | 68.9 | 70.1 | 71.4 | 74.4 | 77.8 | 83.3 | 85.9 | 84.8 | 85.9 | 84.8 | 79.9 | | | |
| 80 | 60.6 | 63.2 | 65.9 | 67.4 | 69.6 | 73.1 | 76.1 | 79.4 | 85.8 | 88.2 | 86.8 | 88.2 | 86.8 | 80.8 | | | |
| 100 | 61.9 | 65.5 | 66.9 | 68.9 | 70.7 | 72.4 | 77.4 | 81.4 | 86.8 | 89.4 | 87.8 | 88.2 | 86.8 | 82.2 | | | |
| 125 | 64.0 | 66.2 | 68.3 | 70.1 | 72.1 | 73.6 | 75.9 | 78.3 | 82.3 | 87.5 | 90.3 | 88.4 | 85.0 | 83.0 | | | |
| 160 | 67.9 | 70.1 | 72.0 | 73.1 | 74.3 | 76.3 | 79.6 | 82.8 | 86.4 | 88.7 | 86.5 | 82.2 | 80.9 | 80.9 | | | |
| 200 | 65.5 | 69.0 | 72.5 | 74.5 | 76.0 | 77.5 | 79.2 | 83.9 | 85.0 | 86.0 | 84.8 | 79.3 | 80.9 | 80.9 | | | |
| 250 | 65.1 | 68.4 | 69.6 | 71.6 | 73.7 | 76.0 | 77.5 | 79.2 | 83.9 | 85.0 | 84.8 | 79.3 | 80.9 | 80.9 | | | |
| 315 | 65.4 | 68.2 | 71.2 | 72.3 | 74.1 | 75.6 | 78.1 | 80.3 | 83.4 | 83.8 | 84.7 | 82.7 | 76.2 | 76.2 | | | |
| 400 | 63.8 | 67.4 | 70.5 | 72.4 | 74.4 | 75.2 | 77.7 | 80.9 | 83.5 | 83.3 | 83.1 | 81.3 | 74.0 | 74.0 | | | |
| 500 | 63.8 | 67.3 | 70.1 | 71.8 | 73.8 | 75.1 | 77.1 | 80.5 | 83.4 | 83.4 | 83.1 | 79.6 | 72.2 | 72.2 | | | |
| 630 | 62.4 | 66.3 | 69.0 | 70.9 | 73.0 | 74.5 | 76.2 | 80.1 | 82.2 | 82.7 | 81.5 | 78.3 | 68.2 | 68.2 | | | |
| 800 | 61.1 | 65.9 | 68.4 | 71.2 | 72.3 | 74.6 | 76.3 | 79.9 | 80.7 | 82.1 | 80.5 | 76.2 | 66.9 | 66.9 | | | |
| 1000 | 60.0 | 66.0 | 67.8 | 70.4 | 72.8 | 74.6 | 76.3 | 79.1 | 80.6 | 80.9 | 79.1 | 74.5 | 65.7 | 65.7 | | | |
| 1250 | 59.3 | 65.8 | 67.1 | 69.5 | 72.2 | 74.0 | 75.9 | 78.5 | 79.1 | 80.0 | 78.0 | 72.5 | 63.4 | 63.4 | | | |
| 1600 | 57.0 | 67.6 | 67.9 | 68.6 | 71.6 | 71.4 | 73.6 | 77.3 | 77.6 | 77.6 | 75.5 | 69.9 | 59.8 | 59.8 | | | |
| 2000 | 53.2 | 63.6 | 66.1 | 68.0 | 69.5 | 70.4 | 71.9 | 74.5 | 74.4 | 73.6 | 71.4 | 65.8 | 54.3 | 54.3 | | | |
| 2500 | 48.6 | 60.0 | 63.2 | 66.9 | 68.3 | 68.2 | 69.4 | 71.7 | 71.9 | 69.6 | 67.1 | 60.7 | 47.6 | 47.6 | | | |
| 3150 | 40.9 | 52.5 | 56.9 | 60.7 | 64.5 | 65.1 | 66.0 | 67.0 | 63.4 | 59.3 | 51.1 | 35.6 | 16.2 | 16.2 | | | |
| 4000 | 35.8 | 45.2 | 49.4 | 53.1 | 56.7 | 57.3 | 57.4 | 58.4 | 59.2 | 54.7 | 50.4 | 37.5 | 16.2 | 16.2 | | | |
| 5000 | 25.3 | 40.0 | 47.0 | 51.2 | 54.4 | 53.8 | 54.4 | 55.7 | 55.1 | 50.0 | 44.8 | 31.1 | 7.3 | 7.3 | | | |
| 6300 | 9.3 | 26.3 | 35.3 | 40.4 | 42.9 | 43.3 | 42.9 | 45.3 | 43.4 | 37.5 | 30.1 | 11.0 | 0.0 | 0.0 | | | |
| 8000 | | 5.7 | 16.9 | 22.8 | 25.0 | 26.7 | 25.8 | 27.8 | 24.5 | 18.1 | 6.4 | 0.0 | 0.0 | 0.0 | | | |
| 10000 | | | 0.5 | 3.6 | 5.7 | 4.6 | 5.6 | 1.5 | | | | | | | | | |
| OVERALL CALCULATED | 75.3 | 79.1 | 81.4 | 83.0 | 85.0 | 86.4 | 88.2 | 91.1 | 93.8 | 96.2 | 97.6 | 96.1 | 90.6 | 90.6 | | | |
| PROB | 79.2 | 86.4 | 88.5 | 90.8 | 92.8 | 93.6 | 95.3 | 98.2 | 99.7 | 100.4 | 100.7 | 98.2 | 91.4 | 91.4 | | | |

CONFIGURATION 3 TEST POINT 329 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in.²) SIZE

ANECHOIC JET NOISE TEST FACILITY RESULTS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (SP. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | PdL |
|--------------------|---|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. | (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)(3.3)(3.6) | | | | | | | | | | | | |
| NO. EGA | 63 | | | | | | | | | | | | |
| RDG. NO. | 80 | 89.7 | 87.7 | 89.0 | 90.5 | 90.9 | 91.5 | 93.0 | 93.4 | 95.0 | 98.4 | 98.4 | 100.9 |
| RADIAL (12. M) | 125 | 79.6 | 83.9 | 85.4 | 87.4 | 89.5 | 90.6 | 91.5 | 92.7 | 91.1 | 90.9 | 99.9 | 101.6 |
| VEHICLE (CELL 41) | 160 | 80.4 | 83.2 | 85.9 | 86.2 | 87.0 | 87.4 | 88.0 | 90.2 | 91.9 | 97.0 | 101.7 | 103.1 |
| CONFIG (NC41) | 200 | 83.0 | 83.3 | 84.8 | 87.3 | 87.9 | 89.0 | 89.8 | 92.8 | 95.8 | 100.1 | 104.3 | 108.3 |
| LOC (C41 ANECH CH) | 250 | 82.6 | 85.1 | 86.8 | 86.9 | 88.2 | 90.1 | 92.5 | 94.6 | 97.6 | 102.2 | 108.4 | 110.6 |
| DATE (6-01-76) | 315 | 84.2 | 87.7 | 90.2 | 88.7 | 91.3 | 91.9 | 93.3 | 96.0 | 100.4 | 105.8 | 110.7 | 113.4 |
| RUN CONFLOWFLWC | 400 | 86.4 | 89.2 | 90.8 | 91.3 | 93.2 | 94.1 | 98.2 | 102.7 | 108.8 | 114.0 | 115.4 | 113.0 |
| TAPE (X0330) | 500 | 87.5 | 88.0 | 89.8 | 92.4 | 94.3 | 95.4 | 98.8 | 104.0 | 111.0 | 115.8 | 116.7 | 113.5 |
| BAR (23.3 HG) | 630 | 89.1 | 90.6 | 90.6 | 92.7 | 94.3 | 96.9 | 97.3 | 101.2 | 106.6 | 113.5 | 117.7 | 118.1 |
| (98975. H/M2) | 800 | 92.1 | 92.2 | 92.9 | 94.2 | 95.8 | 97.9 | 98.5 | 102.4 | 107.9 | 114.7 | 119.4 | 119.4 |
| TAMB (63. DEG F) | 1000 | 96.7 | 97.2 | 97.7 | 97.3 | 98.1 | 98.2 | 99.9 | 103.2 | 108.5 | 114.6 | 119.5 | 118.9 |
| (290. DEG K) | 1250 | 95.0 | 97.1 | 98.1 | 97.9 | 98.7 | 100.3 | 101.2 | 105.1 | 109.6 | 113.9 | 118.9 | 120.3 |
| TWET (61. DEG F) | 1600 | 93.9 | 94.7 | 95.9 | 96.5 | 97.8 | 99.7 | 100.8 | 105.0 | 109.7 | 113.5 | 119.0 | 119.6 |
| (289. DEG K) | 2000 | 94.7 | 95.7 | 97.0 | 98.3 | 99.5 | 102.1 | 105.8 | 110.2 | 112.8 | 118.3 | 118.4 | 113.5 |
| HACT(13.12 GM/M3) | 2500 | 94.0 | 95.3 | 96.8 | 98.1 | 99.2 | 99.8 | 102.2 | 106.9 | 110.6 | 112.4 | 116.9 | 116.8 |
| (.01312 KG/M3) | 3150 | 95.0 | 96.5 | 97.3 | 97.3 | 98.4 | 99.8 | 102.2 | 106.8 | 110.8 | 112.9 | 116.6 | 115.3 |
| JET (290. DEG K) | 4000 | 95.3 | 97.1 | 97.3 | 96.9 | 98.4 | 99.6 | 101.9 | 106.9 | 109.6 | 112.4 | 114.6 | 115.3 |
| CONF. SHIFT | 5000 | 96.9 | 99.2 | 98.5 | 98.5 | 97.5 | 98.6 | 100.4 | 107.2 | 109.5 | 111.3 | 113.8 | 111.9 |
| (290. DEG K) | 6300 | 95.7 | 98.8 | 99.5 | 99.1 | 99.6 | 101.0 | 102.9 | 106.6 | 109.5 | 110.4 | 112.1 | 111.2 |
| DIAMETER RATIO | 8000 | 95.2 | 97.3 | 98.4 | 99.6 | 100.7 | 101.3 | 102.4 | 106.1 | 109.1 | 110.5 | 111.2 | 110.8 |
| (DF/DM 1) | 10000 | 93.4 | 98.0 | 98.3 | 99.3 | 101.1 | 101.0 | 102.4 | 106.1 | 108.1 | 109.7 | 110.1 | 109.7 |
| OVERALL MEASURED | 12500 | 91.3 | 96.8 | 97.1 | 98.1 | 99.9 | 100.3 | 101.6 | 103.8 | 106.4 | 107.6 | 108.2 | 107.3 |
| OVERALL CALCULATED | 16000 | 89.8 | 95.3 | 96.2 | 98.4 | 99.2 | 99.6 | 100.8 | 103.4 | 106.2 | 105.7 | 106.4 | 106.1 |
| | 20000 | 87.0 | 92.6 | 94.4 | 96.0 | 98.8 | 97.7 | 99.2 | 100.6 | 103.5 | 103.5 | 103.3 | 102.7 |
| | 25000 | 83.6 | 90.1 | 90.5 | 93.0 | 95.2 | 94.7 | 95.2 | 97.1 | 100.7 | 100.4 | 102.4 | 99.5 |
| | 31500 | 80.6 | 87.9 | 89.3 | 91.5 | 94.0 | 93.2 | 95.5 | 98.3 | 97.1 | 99.3 | 98.0 | 94.4 |
| | 40000 | 75.6 | 85.9 | 85.8 | 88.1 | 88.9 | 88.4 | 88.9 | 92.0 | 94.1 | 94.2 | 95.7 | 92.6 |
| | 50000 | 68.7 | 76.0 | 79.4 | 82.0 | 81.6 | 82.2 | 82.9 | 85.3 | 88.2 | 90.2 | 90.8 | 87.8 |
| | 63000 | 61.2 | 68.1 | 73.7 | 75.9 | 75.2 | 75.9 | 76.3 | 79.6 | 83.3 | 85.8 | 86.6 | 82.3 |
| | 80000 | 56.8 | 62.6 | 68.1 | 71.8 | 70.8 | 71.4 | 71.3 | 72.4 | 79.2 | 82.1 | 83.2 | 74.6 |

PNdB 106.4 108.8 109.5 110.0 111.4 112.2 113.6 117.6 121.2 124.6 128.7 129.0 125.6
 119.0 121.1 121.3 121.5 122.8 123.9 125.9 130.1 133.8 136.6 140.4 140.2 136.2

CONFIGURATION 3 TEST POINT 3-30 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-71.3cm²(11. lin²)

| ROG. NO. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | SAP | TAMB | TWET | WACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | REL. HUM. | | | | | | | | |
|--------------------|----------|--------|-------|----------|-------------|--------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | | | | | | | | | |
| 50 | MO EGA | CELL41 | C41 | 06-01-76 | CONF3LWFLWC | X03300 | 29.3 | 53 | 61 | 13.12 | 500 | 100.3 | 101.8 | 102.4 | 102.6 | 104.0 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 |
| 65 | 0. | NC41 | CH | 06-01-76 | CONF3LWFLWC | X03300 | 29.3 | 53 | 61 | 13.12 | 500 | 100.3 | 101.8 | 102.4 | 102.6 | 104.0 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 |
| 80 | 0. | NC41 | CH | 06-01-76 | CONF3LWFLWC | X03300 | 29.3 | 53 | 61 | 13.12 | 500 | 100.3 | 101.8 | 102.4 | 102.6 | 104.0 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 |
| 100 | 150. FT. | CELL41 | C41 | 06-01-76 | CONF3LWFLWC | X03300 | 29.3 | 53 | 61 | 13.12 | 500 | 100.3 | 101.8 | 102.4 | 102.6 | 104.0 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 |
| 125 | 40. M | CELL41 | C41 | 06-01-76 | CONF3LWFLWC | X03300 | 29.3 | 53 | 61 | 13.12 | 500 | 100.3 | 101.8 | 102.4 | 102.6 | 104.0 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 |
| 160 | 101.9 | 102.4 | 102.9 | 103.5 | 103.3 | 103.4 | 105.1 | 109.0 | 113.7 | 119.8 | 124.7 | 124.1 | 121.9 | 175.0 | | | | | | | | | | | |
| 200 | 100.2 | 102.3 | 103.3 | 103.1 | 103.9 | 103.5 | 106.4 | 110.3 | 114.8 | 119.1 | 124.1 | 125.5 | 121.3 | 175.0 | | | | | | | | | | | |
| 250 | 99.1 | 99.9 | 101.2 | 101.7 | 103.0 | 104.9 | 106.0 | 110.2 | 114.9 | 118.7 | 124.2 | 124.9 | 120.9 | 175.0 | | | | | | | | | | | |
| 315 | 99.9 | 100.9 | 102.2 | 102.2 | 103.6 | 104.7 | 107.3 | 111.0 | 115.5 | 118.0 | 123.5 | 123.7 | 118.7 | 168.5 | | | | | | | | | | | |
| 400 | 99.3 | 100.6 | 102.1 | 103.4 | 104.5 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 | | | | | | | | | | | |
| 500 | 100.3 | 101.8 | 102.4 | 102.6 | 104.0 | 105.1 | 107.5 | 112.1 | 115.8 | 117.7 | 122.1 | 122.0 | 117.1 | 168.5 | | | | | | | | | | | |
| 630 | 100.6 | 102.4 | 102.7 | 102.2 | 103.5 | 104.9 | 107.3 | 112.2 | 114.9 | 117.8 | 120.0 | 113.6 | 113.2 | 166.9 | | | | | | | | | | | |
| 800 | 102.3 | 104.6 | 103.8 | 102.9 | 103.9 | 105.8 | 107.4 | 112.6 | 114.3 | 116.7 | 119.1 | 117.3 | 113.1 | 165.6 | | | | | | | | | | | |
| 1000 | 101.2 | 104.2 | 105.0 | 104.5 | 105.1 | 106.5 | 108.4 | 112.0 | 115.0 | 115.9 | 117.6 | 116.7 | 112.7 | 165.8 | | | | | | | | | | | |
| 1250 | 100.9 | 103.0 | 104.0 | 105.3 | 106.4 | 107.0 | 108.6 | 111.8 | 114.8 | 116.1 | 116.8 | 116.5 | 112.2 | 165.7 | | | | | | | | | | | |
| 1600 | 99.3 | 103.9 | 104.2 | 105.2 | 107.0 | 106.9 | 108.3 | 112.0 | 114.0 | 115.6 | 116.0 | 115.6 | 111.9 | 165.3 | | | | | | | | | | | |
| 2000 | 97.5 | 103.0 | 103.4 | 104.4 | 106.2 | 106.5 | 107.8 | 110.1 | 112.7 | 113.8 | 114.5 | 113.6 | 110.5 | 163.9 | | | | | | | | | | | |
| 2300 | 96.7 | 102.3 | 103.2 | 105.4 | 106.2 | 106.5 | 107.7 | 110.4 | 113.2 | 112.7 | 113.3 | 113.1 | 109.5 | 163.7 | | | | | | | | | | | |
| 3150 | 94.6 | 100.3 | 102.2 | 103.3 | 106.6 | 105.4 | 106.9 | 108.3 | 111.2 | 111.2 | 111.1 | 110.5 | 107.4 | 162.2 | | | | | | | | | | | |
| 4000 | 92.4 | 99.0 | 99.3 | 101.9 | 104.1 | 103.6 | 104.1 | 105.9 | 109.6 | 109.3 | 111.3 | 108.4 | 104.7 | 160.9 | | | | | | | | | | | |
| 5000 | 91.4 | 98.7 | 100.1 | 102.3 | 104.9 | 103.6 | 104.1 | 106.4 | 109.2 | 108.0 | 110.2 | 108.8 | 105.3 | 160.8 | | | | | | | | | | | |
| 6300 | 85.6 | 92.9 | 96.3 | 98.9 | 98.5 | 99.1 | 99.8 | 102.2 | 105.1 | 107.1 | 107.7 | 104.7 | 100.8 | 160.1 | | | | | | | | | | | |
| 8000 | 85.6 | 92.9 | 96.3 | 98.9 | 98.5 | 99.1 | 99.8 | 102.2 | 105.1 | 107.1 | 107.7 | 104.7 | 100.8 | 158.8 | | | | | | | | | | | |
| 10000 | 83.2 | 90.1 | 95.6 | 97.9 | 97.1 | 97.8 | 98.2 | 101.7 | 105.2 | 107.7 | 108.6 | 104.3 | 99.1 | 160.1 | | | | | | | | | | | |
| 12300 | 86.2 | 92.0 | 97.5 | 101.2 | 100.2 | 100.8 | 100.7 | 101.8 | 108.6 | 111.5 | 112.6 | 104.0 | 102.3 | 160.1 | | | | | | | | | | | |
| OVERALL CALCULATED | 111.9 | 114.7 | 115.4 | 116.3 | 117.6 | 118.2 | 119.7 | 123.4 | 126.9 | 130.1 | 134.0 | 134.0 | 130.6 | 160.6 | | | | | | | | | | | |
| PNOB | 121.9 | 126.4 | 127.3 | 128.8 | 130.5 | 130.4 | 131.7 | 134.7 | 137.9 | 139.2 | 141.3 | 140.8 | 137.1 | 160.6 | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 330 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in.²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 5 DAY 24 HR. 12.1

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--------------------|---------------------------------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO EGA | (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) |
| 50 | 61.2 | 66.3 | 66.4 | 69.1 | 72.1 | 72.9 | 74.1 | 76.4 | 80.1 | 84.3 | 87.7 | 90.1 | 84.1 |
| 63 | 63.6 | 66.7 | 69.0 | 70.1 | 72.6 | 74.1 | 76.9 | 78.6 | 82.3 | 87.3 | 90.9 | 90.1 | 84.1 |
| 80 | 64.4 | 66.5 | 69.0 | 70.1 | 72.9 | 75.1 | 76.9 | 79.1 | 83.4 | 87.1 | 92.7 | 91.3 | 84.5 |
| 100 | 65.9 | 69.0 | 70.1 | 72.9 | 74.9 | 75.7 | 77.9 | 81.4 | 86.1 | 91.8 | 94.4 | 92.5 | 85.9 |
| 125 | 68.0 | 70.4 | 72.3 | 74.3 | 76.4 | 77.9 | 79.1 | 82.6 | 87.3 | 93.0 | 96.1 | 93.6 | 87.0 |
| 160 | 73.2 | 75.4 | 77.0 | 77.3 | 78.6 | 78.8 | 80.3 | 83.8 | 87.8 | 92.7 | 96.0 | 93.0 | 87.0 |
| 200 | 71.5 | 75.0 | 77.2 | 77.3 | 79.0 | 80.8 | 81.5 | 85.0 | 88.7 | 91.9 | 95.1 | 94.1 | 85.9 |
| 250 | 69.9 | 72.4 | 74.9 | 76.2 | 78.0 | 80.0 | 81.0 | 84.7 | 88.6 | 91.3 | 95.0 | 93.1 | 85.9 |
| 315 | 70.4 | 73.2 | 75.7 | 76.5 | 78.5 | 79.5 | 82.1 | 85.3 | 88.9 | 90.3 | 93.9 | 91.4 | 82.2 |
| 400 | 69.3 | 72.4 | 75.2 | 77.4 | 78.9 | 79.7 | 81.9 | 86.1 | 89.0 | 89.5 | 92.1 | 89.2 | 79.7 |
| 500 | 69.8 | 73.3 | 75.1 | 76.3 | 78.1 | 79.4 | 81.6 | 85.8 | 88.9 | 89.6 | 91.4 | 87.1 | 77.9 |
| 630 | 69.4 | 73.3 | 75.0 | 75.4 | 77.5 | 78.8 | 81.0 | 85.4 | 87.2 | 88.7 | 88.8 | 84.3 | 73.5 |
| 800 | 70.1 | 74.7 | 75.4 | 76.4 | 77.1 | 79.1 | 80.6 | 85.2 | 86.4 | 86.8 | 87.0 | 81.7 | 71.6 |
| 1000 | 68.0 | 73.5 | 75.8 | 76.4 | 77.5 | 79.1 | 80.8 | 85.9 | 85.8 | 85.1 | 84.6 | 79.8 | 69.2 |
| 1250 | 66.3 | 71.0 | 73.8 | 76.2 | 77.9 | 78.7 | 80.2 | 82.7 | 84.6 | 84.2 | 83.3 | 77.8 | 66.1 |
| 1600 | 62.6 | 70.4 | 72.6 | 74.8 | 77.3 | 77.6 | 78.6 | 81.6 | 82.4 | 82.1 | 79.5 | 74.4 | 62.1 |
| 2000 | 58.8 | 67.6 | 70.1 | 72.5 | 75.0 | 75.6 | 76.7 | 78.2 | 79.4 | 78.4 | 75.7 | 69.4 | 56.3 |
| 2500 | 54.6 | 64.0 | 67.4 | 71.2 | 72.9 | 73.5 | 74.4 | 76.2 | 77.4 | 74.4 | 71.1 | 64.5 | 48.8 |
| 3150 | 47.2 | 57.6 | 62.5 | 66.0 | 69.8 | 69.0 | 70.2 | 70.6 | 71.5 | 68.5 | 63.6 | 54.9 | 36.4 |
| 4000 | 36.8 | 49.5 | 53.7 | 58.7 | 62.2 | 62.1 | 62.2 | 62.7 | 64.0 | 59.8 | 55.7 | 42.3 | 18.2 |
| 5000 | 31.1 | 45.4 | 51.1 | 56.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 49.9 | 36.7 |
| 6300 | 15.1 | 34.6 | 40.2 | 46.0 | 48.8 | 48.9 | 48.8 | 48.8 | 49.9 | 48.5 | 42.9 | 35.2 | 16.1 |
| 8000 | | 10.5 | 21.8 | 29.2 | 31.4 | 32.8 | 32.7 | 32.5 | 30.6 | 24.7 | 12.6 | | |
| 10000 | | | 8.4 | 11.3 | 13.1 | 12.3 | 12.3 | 12.3 | 9.2 | 0.9 | | | |
| 12500 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 80.9 | 84.5 | 86.5 | 87.8 | 89.5 | 90.7 | 92.3 | 95.9 | 98.9 | 101.8 | 104.5 | 102.3 | 95.1 |
| PNDB | 85.5 | 91.0 | 93.5 | 95.6 | 97.8 | 98.5 | 99.8 | 102.8 | 105.0 | 106.1 | 107.8 | 104.9 | 96.2 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 330 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(.513in.) SIZE

FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 50 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 63 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 80 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 100 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 125 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 160 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 200 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 250 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 315 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 400 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 500 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 630 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 800 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 1000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 1250 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 1600 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 2000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 2500 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 3150 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 4000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 5000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 6300 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 8000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 10000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 12500 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 16000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 20000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 25000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 31500 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 40000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 50000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 63000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| 80000 | (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) | (2.96) | (3.13) | (3.30) | (3.47) | (3.64) |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | |
| PND8 | 109.1 | 113.1 | 112.5 | 113.5 | 113.7 | 117.3 | 116.5 | 119.0 | 121.0 | 124.0 | 125.5 | 125.3 | 122.7 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 340 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-109cm²(16.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 16.7
 DATA (9. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOYS)
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (9. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOYS)
 ANGLES FROM INLET IN DEGREES (CARD RADIANS)

| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RDG. NO. 0. | | 50 | 77.1 | 80.7 | 81.7 | 81.0 | 82.8 | 84.7 | 87.3 | 89.7 | 90.7 | 91.0 | 92.0 | 92.8 |
| RADIAL 150. FT. | | 63 | 78.5 | 82.5 | 84.5 | 85.8 | 86.1 | 87.0 | 88.1 | 89.1 | 90.1 | 91.1 | 92.0 | 92.8 |
| (46. M) | | 80 | 20.5 | 82.5 | 84.5 | 85.5 | 86.2 | 87.3 | 88.7 | 91.4 | 93.0 | 94.5 | 95.5 | 96.5 |
| VEHICLE CELL41 | | 100 | 81.1 | 82.6 | 84.1 | 85.2 | 86.5 | 88.4 | 89.8 | 92.4 | 95.9 | 101.2 | 105.7 | 108.3 |
| CONFIG NC42 | | 125 | 82.4 | 84.2 | 85.2 | 86.5 | 88.1 | 89.2 | 91.4 | 93.3 | 97.2 | 101.5 | 106.3 | 108.7 |
| LDC C41 ANECH CH | | 200 | 86.3 | 87.5 | 88.2 | 89.5 | 91.2 | 92.4 | 95.3 | 99.0 | 102.5 | 106.5 | 107.7 | 107.5 |
| DATF C6-02-76 | | 250 | 85.6 | 86.9 | 88.9 | 89.5 | 90.2 | 91.3 | 92.7 | 95.6 | 99.1 | 102.4 | 104.6 | 105.3 |
| RUN CONF3HIGHFLW | | 315 | 83.7 | 88.0 | 88.3 | 89.3 | 90.4 | 93.0 | 93.9 | 96.3 | 99.3 | 102.5 | 103.2 | 104.1 |
| TAPE X034CC | | 400 | 85.8 | 87.6 | 89.1 | 89.6 | 91.0 | 92.8 | 94.7 | 97.4 | 99.3 | 102.1 | 103.1 | 102.0 |
| BAR 29.4 HG | | 500 | 86.4 | 88.9 | 90.7 | 91.8 | 92.8 | 94.3 | 96.7 | 98.5 | 100.5 | 101.7 | 101.0 | 98.8 |
| (99367. R/M2) | | 630 | 87.2 | 90.7 | 91.2 | 91.3 | 92.1 | 93.7 | 94.6 | 96.7 | 100.5 | 101.3 | 99.7 | 97.2 |
| (293. DEG K) | | 800 | 92.2 | 97.3 | 95.3 | 96.8 | 95.2 | 102.8 | 97.9 | 100.3 | 101.6 | 103.9 | 107.6 | 106.3 |
| (291. DEG K) | | 1000 | 84.3 | 86.8 | 88.4 | 89.4 | 91.7 | 93.3 | 94.8 | 97.2 | 99.2 | 99.0 | 98.7 | 97.4 |
| FREQ. SHIFT | | 1250 | 81.8 | 86.2 | 86.3 | 88.5 | 91.6 | 92.4 | 94.7 | 96.8 | 98.3 | 98.5 | 97.9 | 97.6 |
| DIAPHRAGM RATIO | | 1600 | 79.3 | 85.0 | 85.4 | 87.5 | 89.7 | 91.0 | 93.6 | 96.5 | 98.1 | 96.1 | 97.2 | 99.4 |
| BP/BK 5.50 | | 2500 | 78.6 | 84.1 | 84.0 | 87.5 | 89.0 | 90.6 | 92.1 | 95.4 | 97.1 | 96.6 | 95.0 | 97.0 |
| OVERALL CALCULATED | | 4000 | 75.0 | 81.5 | 82.4 | 84.5 | 88.3 | 88.4 | 90.9 | 91.0 | 93.6 | 92.6 | 90.7 | 93.6 |
| | | 5000 | 73.3 | 81.1 | 81.5 | 83.0 | 85.7 | 85.9 | 88.9 | 89.9 | 91.9 | 90.0 | 89.5 | 89.1 |
| | | 6300 | 70.9 | 79.7 | 81.5 | 83.6 | 86.4 | 85.2 | 85.6 | 86.6 | 87.0 | 86.0 | 84.1 | 85.3 |
| | | 8000 | 68.2 | 78.2 | 80.4 | 83.0 | 83.3 | 85.2 | 86.1 | 85.7 | 82.6 | 81.0 | 80.4 | 80.0 |
| | | 10000 | 65.9 | 76.5 | 79.5 | 80.0 | 79.1 | 82.8 | 83.9 | 84.6 | 81.7 | 77.7 | 75.6 | 78.2 |
| | | 12500 | 62.3 | 72.0 | 76.7 | 75.7 | 74.2 | 79.1 | 75.9 | 79.2 | 79.2 | 77.8 | 75.2 | 77.2 |
| | | 16000 | 57.9 | 101.4 | 101.5 | 102.8 | 103.7 | 105.1 | 106.8 | 109.0 | 111.6 | 113.8 | 115.7 | 116.9 |
| | | PNDB | 107.1 | 111.5 | 111.6 | 113.5 | 115.0 | 116.5 | 117.8 | 120.0 | 122.2 | 122.7 | 123.2 | 123.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 346 ACoustic RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 8 DAY 26 MR. 16.7

| NO EGA | SIDE LINE 2400. FT. | MFA | MFK | NFO | AIRFLOW RATIO | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | FAN TIP SPEED | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | 70 PERCENT REL. | NUM. DAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--------------------------------|------|------|------|---------------|---------|--------|------|------|------|------|---------------|--|------|------|---|------|------|-----------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | | | | | | | | | | | 40. | 50. | 60. | 90. | 100. | 110. | | | 120. | 130. | 140. | 150. | 160. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | (G.70)(C.87)(1.05)(1.22)(1.40) | 50.0 | 53.0 | 56.1 | 58.2 | 59.4 | 60.4 | 61.7 | 63.0 | 64.2 | 65.2 | 66.2 | 67.4 | 68.7 | 70.2 | 71.6 | 73.1 | 74.6 | 76.2 | 77.7 | 79.2 | 80.7 | 82.2 | 83.7 | 85.2 | 86.7 | 88.2 | 89.7 | 91.2 | 92.7 | 94.2 | 95.7 | 97.2 | 98.7 | 100.2 | 101.7 | 103.2 | 104.7 | 106.2 | 107.7 | 109.2 | 110.7 | 112.2 | 113.7 | 115.2 | 116.7 | 118.2 | 119.7 | 121.2 | 122.7 | 124.2 | 125.7 | 127.2 | 128.7 | 130.2 | 131.7 | 133.2 | 134.7 | 136.2 | 137.7 | 139.2 | 140.7 | 142.2 | 143.7 | 145.2 | 146.7 | 148.2 | 149.7 | 151.2 | 152.7 | 154.2 | 155.7 | 157.2 | 158.7 | 160.2 | 161.7 | 163.2 | 164.7 | 166.2 | 167.7 | 169.2 | 170.7 | 172.2 | 173.7 | 175.2 | 176.7 | 178.2 | 179.7 | 181.2 | 182.7 | 184.2 | 185.7 | 187.2 | 188.7 | 190.2 | 191.7 | 193.2 | 194.7 | 196.2 | 197.7 | 199.2 | 200.7 | 202.2 | 203.7 | 205.2 | 206.7 | 208.2 | 209.7 | 211.2 | 212.7 | 214.2 | 215.7 | 217.2 | 218.7 | 220.2 | 221.7 | 223.2 | 224.7 | 226.2 | 227.7 | 229.2 | 230.7 | 232.2 | 233.7 | 235.2 | 236.7 | 238.2 | 239.7 | 241.2 | 242.7 | 244.2 | 245.7 | 247.2 | 248.7 | 250.2 | 251.7 | 253.2 | 254.7 | 256.2 | 257.7 | 259.2 | 260.7 | 262.2 | 263.7 | 265.2 | 266.7 | 268.2 | 269.7 | 271.2 | 272.7 | 274.2 | 275.7 | 277.2 | 278.7 | 280.2 | 281.7 | 283.2 | 284.7 | 286.2 | 287.7 | 289.2 | 290.7 | 292.2 | 293.7 | 295.2 | 296.7 | 298.2 | 299.7 | 301.2 | 302.7 | 304.2 | 305.7 | 307.2 | 308.7 | 310.2 | 311.7 | 313.2 | 314.7 | 316.2 | 317.7 | 319.2 | 320.7 | 322.2 | 323.7 | 325.2 | 326.7 | 328.2 | 329.7 | 331.2 | 332.7 | 334.2 | 335.7 | 337.2 | 338.7 | 340.2 | 341.7 | 343.2 | 344.7 | 346.2 | 347.7 | 349.2 | 350.7 | 352.2 | 353.7 | 355.2 | 356.7 | 358.2 | 359.7 | 361.2 | 362.7 | 364.2 | 365.7 | 367.2 | 368.7 | 370.2 | 371.7 | 373.2 | 374.7 | 376.2 | 377.7 | 379.2 | 380.7 | 382.2 | 383.7 | 385.2 | 386.7 | 388.2 | 389.7 | 391.2 | 392.7 | 394.2 | 395.7 | 397.2 | 398.7 | 400.2 | 401.7 | 403.2 | 404.7 | 406.2 | 407.7 | 409.2 | 410.7 | 412.2 | 413.7 | 415.2 | 416.7 | 418.2 | 419.7 | 421.2 | 422.7 | 424.2 | 425.7 | 427.2 | 428.7 | 430.2 | 431.7 | 433.2 | 434.7 | 436.2 | 437.7 | 439.2 | 440.7 | 442.2 | 443.7 | 445.2 | 446.7 | 448.2 | 449.7 | 451.2 | 452.7 | 454.2 | 455.7 | 457.2 | 458.7 | 460.2 | 461.7 | 463.2 | 464.7 | 466.2 | 467.7 | 469.2 | 470.7 | 472.2 | 473.7 | 475.2 | 476.7 | 478.2 | 479.7 | 481.2 | 482.7 | 484.2 | 485.7 | 487.2 | 488.7 | 490.2 | 491.7 | 493.2 | 494.7 | 496.2 | 497.7 | 499.2 | 500.7 | 502.2 | 503.7 | 505.2 | 506.7 | 508.2 | 509.7 | 511.2 | 512.7 | 514.2 | 515.7 | 517.2 | 518.7 | 520.2 | 521.7 | 523.2 | 524.7 | 526.2 | 527.7 | 529.2 | 530.7 | 532.2 | 533.7 | 535.2 | 536.7 | 538.2 | 539.7 | 541.2 | 542.7 | 544.2 | 545.7 | 547.2 | 548.7 | 550.2 | 551.7 | 553.2 | 554.7 | 556.2 | 557.7 | 559.2 | 560.7 | 562.2 | 563.7 | 565.2 | 566.7 | 568.2 | 569.7 | 571.2 | 572.7 | 574.2 | 575.7 | 577.2 | 578.7 | 580.2 | 581.7 | 583.2 | 584.7 | 586.2 | 587.7 | 589.2 | 590.7 | 592.2 | 593.7 | 595.2 | 596.7 | 598.2 | 599.7 | 601.2 | 602.7 | 604.2 | 605.7 | 607.2 | 608.7 | 610.2 | 611.7 | 613.2 | 614.7 | 616.2 | 617.7 | 619.2 | 620.7 | 622.2 | 623.7 | 625.2 | 626.7 | 628.2 | 629.7 | 631.2 | 632.7 | 634.2 | 635.7 | 637.2 | 638.7 | 640.2 | 641.7 | 643.2 | 644.7 | 646.2 | 647.7 | 649.2 | 650.7 | 652.2 | 653.7 | 655.2 | 656.7 | 658.2 | 659.7 | 661.2 | 662.7 | 664.2 | 665.7 | 667.2 | 668.7 | 670.2 | 671.7 | 673.2 | 674.7 | 676.2 | 677.7 | 679.2 | 680.7 | 682.2 | 683.7 | 685.2 | 686.7 | 688.2 | 689.7 | 691.2 | 692.7 | 694.2 | 695.7 | 697.2 | 698.7 | 700.2 | 701.7 | 703.2 | 704.7 | 706.2 | 707.7 | 709.2 | 710.7 | 712.2 | 713.7 | 715.2 | 716.7 | 718.2 | 719.7 | 721.2 | 722.7 | 724.2 | 725.7 | 727.2 | 728.7 | 730.2 | 731.7 | 733.2 | 734.7 | 736.2 | 737.7 | 739.2 | 740.7 | 742.2 | 743.7 | 745.2 | 746.7 | 748.2 | 749.7 | 751.2 | 752.7 | 754.2 | 755.7 | 757.2 | 758.7 | 760.2 | 761.7 | 763.2 | 764.7 | 766.2 | 767.7 | 769.2 | 770.7 | 772.2 | 773.7 | 775.2 | 776.7 | 778.2 | 779.7 | 781.2 | 782.7 | 784.2 | 785.7 | 787.2 | 788.7 | 790.2 | 791.7 | 793.2 | 794.7 | 796.2 | 797.7 | 799.2 | 800.7 | 802.2 | 803.7 | 805.2 | 806.7 | 808.2 | 809.7 | 811.2 | 812.7 | 814.2 | 815.7 | 817.2 | 818.7 | 820.2 | 821.7 | 823.2 | 824.7 | 826.2 | 827.7 | 829.2 | 830.7 | 832.2 | 833.7 | 835.2 | 836.7 | 838.2 | 839.7 | 841.2 | 842.7 | 844.2 | 845.7 | 847.2 | 848.7 | 850.2 | 851.7 | 853.2 | 854.7 | 856.2 | 857.7 | 859.2 | 860.7 | 862.2 | 863.7 | 865.2 | 866.7 | 868.2 | 869.7 | 871.2 | 872.7 | 874.2 | 875.7 | 877.2 | 878.7 | 880.2 | 881.7 | 883.2 | 884.7 | 886.2 | 887.7 | 889.2 | 890.7 | 892.2 | 893.7 | 895.2 | 896.7 | 898.2 | 899.7 | 901.2 | 902.7 | 904.2 | 905.7 | 907.2 | 908.7 | 910.2 | 911.7 | 913.2 | 914.7 | 916.2 | 917.7 | 919.2 | 920.7 | 922.2 | 923.7 | 925.2 | 926.7 | 928.2 | 929.7 | 931.2 | 932.7 | 934.2 | 935.7 | 937.2 | 938.7 | 940.2 | 941.7 | 943.2 | 944.7 | 946.2 | 947.7 | 949.2 | 950.7 | 952.2 | 953.7 | 955.2 | 956.7 | 958.2 | 959.7 | 961.2 | 962.7 | 964.2 | 965.7 | 967.2 | 968.7 | 970.2 | 971.7 | 973.2 | 974.7 | 976.2 | 977.7 | 979.2 | 980.7 | 982.2 | 983.7 | 985.2 | 986.7 | 988.2 | 989.7 | 991.2 | 992.7 | 994.2 | 995.7 | 997.2 | 998.7 | 1000.2 |

OVERALL CALCULATED 67.0 72.0 73.6 75.4 76.7 79.3 79.6 81.7 83.5 85.3 86.1 85.2 81.0
 PHDB 71.9 78.4 75.7 82.2 83.3 86.6 86.2 88.1 89.2 90.3 89.2 86.1 80.2

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 340 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PWL
 (C.70)(0.57)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0)(3.1)(3.2)(3.3)(3.4)(3.5)(3.6)(3.7)(3.8)(3.9)(4.0)

| RDG. NO. | HO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PWL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|
| 100 | 74.9 | 84.2 | 81.4 | 83.2 | 84.8 | 86.9 | 85.5 | 86.0 | 87.2 | 88.2 | 91.9 | 92.4 | 96.7 | 129.6 | | | | | | |
| 125 | 74.3 | 77.9 | 79.6 | 82.2 | 83.7 | 85.1 | 85.5 | 86.4 | 85.1 | 84.4 | 92.9 | 94.8 | 95.4 | 129.9 | | | | | | |
| 160 | 74.1 | 77.2 | 80.2 | 80.5 | 81.5 | 81.4 | 82.3 | 83.5 | 85.4 | 90.0 | 94.7 | 96.4 | 98.7 | 131.4 | | | | | | |
| 200 | 77.3 | 77.3 | 78.8 | 81.1 | 82.2 | 82.8 | 84.2 | 85.6 | 89.3 | 92.1 | 97.1 | 101.3 | 102.5 | 134.9 | | | | | | |
| 250 | 76.1 | 79.8 | 80.6 | 80.9 | 82.5 | 84.1 | 86.5 | 88.1 | 90.1 | 94.7 | 100.4 | 103.3 | 104.5 | 137.1 | | | | | | |
| 315 | 77.7 | 82.7 | 80.9 | 83.7 | 85.8 | 86.4 | 87.6 | 89.2 | 92.4 | 97.8 | 102.2 | 106.6 | 106.9 | 139.7 | | | | | | |
| 400 | 80.2 | 82.0 | 84.0 | 84.3 | 85.9 | 86.5 | 88.1 | 90.8 | 94.0 | 99.5 | 105.7 | 108.4 | 107.7 | 141.7 | | | | | | |
| 500 | 80.5 | 81.8 | 83.5 | 84.6 | 86.2 | 87.5 | 89.4 | 91.6 | 95.3 | 101.9 | 106.8 | 110.0 | 108.0 | 142.9 | | | | | | |
| 630 | 82.4 | 83.9 | 84.6 | 85.9 | 87.5 | 88.9 | 90.3 | 92.9 | 96.9 | 102.0 | 107.9 | 110.6 | 108.6 | 143.6 | | | | | | |
| 800 | 84.1 | 85.4 | 86.2 | 87.4 | 88.8 | 90.4 | 92.0 | 94.4 | 98.9 | 103.2 | 108.4 | 110.6 | 109.4 | 144.2 | | | | | | |
| 1000 | 88.0 | 89.0 | 89.7 | 89.8 | 90.4 | 91.2 | 93.1 | 95.3 | 98.7 | 103.3 | 107.5 | 109.7 | 109.5 | 143.8 | | | | | | |
| 1250 | 86.0 | 87.6 | 89.3 | 89.6 | 91.0 | 92.6 | 94.3 | 96.5 | 99.7 | 103.0 | 105.2 | 107.1 | 107.2 | 142.1 | | | | | | |
| 1600 | 86.1 | 88.2 | 88.2 | 89.0 | 90.1 | 92.9 | 94.3 | 97.0 | 99.7 | 103.0 | 105.2 | 107.1 | 107.2 | 142.1 | | | | | | |
| 2000 | 86.9 | 88.7 | 89.8 | 89.8 | 90.1 | 91.7 | 92.3 | 94.0 | 96.9 | 100.3 | 101.7 | 101.4 | 102.8 | 140.8 | | | | | | |
| 2500 | 86.8 | 87.8 | 89.0 | 90.1 | 91.7 | 92.3 | 94.7 | 97.6 | 100.6 | 101.4 | 100.6 | 102.0 | 101.5 | 139.8 | | | | | | |
| 3150 | 87.0 | 89.0 | 90.1 | 90.1 | 91.0 | 92.6 | 94.0 | 97.1 | 99.2 | 100.2 | 98.9 | 100.5 | 99.6 | 138.6 | | | | | | |
| 4000 | 86.3 | 87.6 | 89.1 | 89.6 | 91.0 | 92.9 | 94.1 | 97.0 | 99.2 | 99.3 | 98.0 | 100.2 | 99.9 | 138.3 | | | | | | |
| 5000 | 85.9 | 86.9 | 89.0 | 90.2 | 91.3 | 93.3 | 94.6 | 96.6 | 98.8 | 98.4 | 98.3 | 100.2 | 100.8 | 138.4 | | | | | | |
| 6300 | 85.9 | 86.9 | 89.1 | 89.6 | 90.9 | 93.1 | 94.7 | 96.6 | 98.4 | 98.0 | 97.7 | 99.8 | 100.6 | 138.3 | | | | | | |
| 8000 | 85.0 | 86.3 | 86.9 | 89.1 | 90.9 | 93.1 | 94.7 | 96.6 | 98.4 | 98.0 | 97.7 | 99.8 | 100.6 | 138.4 | | | | | | |
| 10000 | 83.9 | 87.0 | 86.8 | 88.1 | 90.6 | 91.5 | 93.4 | 96.1 | 97.6 | 97.2 | 96.6 | 99.5 | 100.7 | 136.0 | | | | | | |
| 12500 | 81.3 | 85.5 | 85.6 | 86.8 | 89.2 | 89.8 | 91.8 | 94.1 | 95.6 | 94.8 | 95.5 | 98.0 | 99.8 | 136.8 | | | | | | |
| 16000 | 80.1 | 84.6 | 85.0 | 86.4 | 88.5 | 89.1 | 90.8 | 92.7 | 95.0 | 93.2 | 94.1 | 97.1 | 98.8 | 136.0 | | | | | | |
| 20000 | 77.0 | 81.5 | 82.6 | 84.3 | 87.0 | 86.6 | 89.1 | 88.2 | 90.6 | 90.6 | 91.0 | 92.9 | 95.8 | 134.4 | | | | | | |
| 25000 | 74.3 | 79.8 | 79.4 | 81.5 | 83.5 | 83.7 | 85.4 | 84.7 | 85.4 | 86.3 | 88.3 | 88.4 | 91.7 | 132.4 | | | | | | |
| 31500 | 72.3 | 77.8 | 78.7 | 80.9 | 82.2 | 81.9 | 82.4 | 83.4 | 84.4 | 83.2 | 84.0 | 86.3 | 89.6 | 131.3 | | | | | | |
| 40000 | 68.8 | 73.9 | 76.5 | 78.8 | 79.3 | 79.4 | 79.1 | 79.3 | 79.7 | 78.8 | 79.3 | 80.7 | 84.0 | 130.8 | | | | | | |
| 50000 | 62.8 | 68.7 | 71.6 | 75.2 | 74.5 | 76.1 | 76.3 | 75.4 | 75.3 | 72.0 | 72.9 | 74.2 | 76.8 | 131.7 | | | | | | |
| 63000 | 55.7 | 62.3 | 66.1 | 69.4 | 69.1 | 70.6 | 71.4 | 71.4 | 69.6 | 65.9 | 66.2 | 66.7 | 70.3 | 131.7 | | | | | | |
| 80000 | 47.3 | 52.8 | 58.6 | 63.0 | 61.0 | 63.4 | 63.5 | 62.5 | 61.8 | 61.2 | 60.3 | 60.0 | 64.8 | 133.7 | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 97.7 | 99.7 | 100.7 | 101.4 | 103.0 | 104.3 | 105.9 | 108.3 | 111.0 | 113.5 | 116.7 | 119.3 | 118.7 | 154.0 | | | | | | |
| PMPE | 110.5 | 112.4 | 113.4 | 113.9 | 115.5 | 116.7 | 118.4 | 121.0 | 123.8 | 125.5 | 126.7 | 128.7 | 128.6 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **341** ACOUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-109cm²(16.9in²)**

PROC. DATE - MONTH 8 DAY 26 MR. 16.7
 DATA (59. DEG. F, 70 PERCENT REL. HUMID. DAY - JENOTS)

| RDG. NO. | FULL SCALE DATA REDUCTION PROGRAM | | ANGLE FROM INLET IN DEGREES (AND RADIIANS) | SCALED FROM MODEL DATA | LEVELS | PRESSURE | | | RANGE | SIZE | | | | |
|--------------------|-----------------------------------|-------|--|------------------------|--------|-----------|--------|--------|-------|-------|--------|-------|-------|-------|
| | FULL | SIZE | | | | REDUCTION | SCALED | SCALED | | | SCALED | | | |
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | | |
| 50 | 79.4 | 83.2 | 83.9 | 84.2 | 85.3 | 87.4 | 89.5 | 91.5 | 93.4 | 98.0 | 103.7 | 106.6 | 107.7 | 151.9 |
| 63 | 81.0 | 86.0 | 84.3 | 87.1 | 89.1 | 89.8 | 91.4 | 94.1 | 97.3 | 102.9 | 109.1 | 111.8 | 111.0 | 154.5 |
| 80 | 83.5 | 85.3 | 87.5 | 87.6 | 89.2 | 89.8 | 91.4 | 94.1 | 97.3 | 102.9 | 109.1 | 111.8 | 111.0 | 156.5 |
| 100 | 83.8 | 85.1 | 86.9 | 87.9 | 89.5 | 90.9 | 92.8 | 96.3 | 100.2 | 105.3 | 111.3 | 113.9 | 112.0 | 157.7 |
| 125 | 85.7 | 87.2 | 88.0 | 89.3 | 90.9 | 92.2 | 93.6 | 96.3 | 100.2 | 105.3 | 111.3 | 113.9 | 112.0 | 159.0 |
| 160 | 87.5 | 88.7 | 89.5 | 90.8 | 92.1 | 93.7 | 95.4 | 97.8 | 102.2 | 106.6 | 111.8 | 114.0 | 112.7 | 157.8 |
| 200 | 91.3 | 92.3 | 93.1 | 93.1 | 93.7 | 94.6 | 96.5 | 98.6 | 102.1 | 106.0 | 109.9 | 112.4 | 111.9 | 158.9 |
| 250 | 91.4 | 90.9 | 92.7 | 93.0 | 94.3 | 95.9 | 97.0 | 99.7 | 102.9 | 106.0 | 109.2 | 112.4 | 111.9 | 156.6 |
| 315 | 89.5 | 91.5 | 91.5 | 92.3 | 93.4 | 94.2 | 95.8 | 97.7 | 100.4 | 103.1 | 105.9 | 108.3 | 104.1 | 154.6 |
| 400 | 90.3 | 92.1 | 93.3 | 92.6 | 94.2 | 95.8 | 97.5 | 100.2 | 103.7 | 105.0 | 107.7 | 106.2 | 105.9 | 153.4 |
| 500 | 90.2 | 91.2 | 93.2 | 93.5 | 95.1 | 95.7 | 98.1 | 101.0 | 104.0 | 104.8 | 104.0 | 105.6 | 104.9 | 153.1 |
| 630 | 90.4 | 92.4 | 93.5 | 93.5 | 95.1 | 95.7 | 98.1 | 101.0 | 104.0 | 104.8 | 104.0 | 105.6 | 104.9 | 153.1 |
| 800 | 89.7 | 91.0 | 92.6 | 93.1 | 94.4 | 96.0 | 97.4 | 100.6 | 102.6 | 103.6 | 102.3 | 104.0 | 103.0 | 153.2 |
| 1000 | 89.4 | 90.4 | 92.4 | 93.7 | 94.8 | 96.4 | 97.5 | 103.5 | 102.7 | 102.8 | 101.5 | 103.6 | 103.4 | 153.1 |
| 1250 | 89.5 | 91.1 | 92.1 | 93.1 | 95.2 | 96.8 | 98.2 | 100.1 | 102.4 | 102.8 | 101.9 | 103.8 | 104.3 | 152.8 |
| 1600 | 88.7 | 90.0 | 90.6 | 92.8 | 94.7 | 96.8 | 98.6 | 100.3 | 102.1 | 101.7 | 101.4 | 103.5 | 104.3 | 151.6 |
| 2000 | 87.8 | 90.9 | 90.6 | 92.0 | 94.6 | 95.4 | 97.3 | 100.0 | 101.5 | 101.2 | 100.6 | 103.4 | 104.7 | 151.4 |
| 2500 | 85.5 | 89.8 | 89.9 | 91.1 | 93.4 | 94.0 | 96.1 | 98.4 | 99.9 | 99.1 | 99.7 | 102.3 | 104.0 | 149.2 |
| 3150 | 84.9 | 89.4 | 89.8 | 91.3 | 93.3 | 93.9 | 95.6 | 97.5 | 99.8 | 98.1 | 98.9 | 102.0 | 103.7 | 147.2 |
| 4000 | 82.5 | 87.1 | 88.2 | 89.8 | 92.6 | 93.2 | 94.7 | 96.2 | 98.2 | 96.2 | 96.5 | 98.5 | 101.4 | 146.9 |
| 5000 | 81.1 | 86.6 | 86.2 | 88.3 | 90.3 | 90.5 | 92.2 | 91.5 | 95.2 | 93.1 | 95.2 | 95.2 | 98.5 | 146.1 |
| 6300 | 80.7 | 86.2 | 87.1 | 89.4 | 90.6 | 90.3 | 91.8 | 92.9 | 91.7 | 92.4 | 92.4 | 94.8 | 98.0 | 145.6 |
| 8000 | 79.6 | 84.6 | 87.2 | 89.5 | 90.1 | 90.1 | 89.9 | 90.1 | 90.4 | 89.5 | 90.1 | 91.5 | 94.8 | 148.5 |
| 10000 | 76.7 | 82.5 | 85.4 | 89.0 | 88.4 | 89.9 | 90.2 | 89.2 | 87.1 | 85.8 | 86.7 | 88.0 | 90.6 | 148.5 |
| 12500 | 74.0 | 80.6 | 84.4 | 87.6 | 87.4 | 88.9 | 89.7 | 89.7 | 86.9 | 84.2 | 84.5 | 85.0 | 88.5 | 148.5 |
| 16000 | 71.9 | 77.4 | 83.2 | 87.6 | 85.6 | 88.0 | 86.1 | 87.1 | 86.4 | 85.8 | 84.9 | 84.6 | 89.4 | 148.7 |
| OVERALL CALCULATED | 101.2 | 103.3 | 104.4 | 105.3 | 106.8 | 108.0 | 109.6 | 111.9 | 114.6 | 116.9 | 120.0 | 122.8 | 122.0 | 148.5 |
| PMD | 111.5 | 114.9 | 115.6 | 117.0 | 118.7 | 119.6 | 121.2 | 123.0 | 125.4 | 125.6 | 126.9 | 129.4 | 130.3 | 148.7 |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUMID. DAY - JENOTS)

NO EGA
 RADIAL (46. M)
 VEHICLE CELL 41
 CONFIG NC 42
 LOC C41 ANECH CH
 DATE 06-02-76
 RUN CONF: HIGHFLW
 TAPE X0341C
 BAR 29.4 HG
 (90347. N/MZ)
 YAMB 66. DEG F
 (292. DEG R)
 TWET 63. DEG F
 (290. DEG R)
 WACT13.77 GM/H3
 (0.1377 KG/H3)
 FREQ. SHIFT 7
 JET
 DIAPHRM RATIO
 OF/DW 5.50

ANECHOIC JET NOISE TEST FACILITY RESULTS

SIZE
 FULL-.33m (513in²)

ACOUSTIC RANGE
 45.7m(150ft.) ARC

TEST POINT
 341

CONFIGURATION
 3

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 51.2 | 58.6 | 58.4 | 59.4 | 61.4 | 63.2 | 65.4 | 66.7 | 67.9 | 71.4 | 75.5 | 76.2 | 75.8 |
| 53 | 52.7 | 59.3 | 58.7 | 62.2 | 64.7 | 65.5 | 66.5 | 67.7 | 70.2 | 73.7 | 77.3 | 79.5 | 76.2 |
| 80 | 55.2 | 58.6 | 61.7 | 62.7 | 64.7 | 65.5 | 66.9 | 69.2 | 71.7 | 76.1 | 80.7 | 81.1 | 76.9 |
| 100 | 55.4 | 58.3 | 61.2 | 62.9 | 65.0 | 66.5 | 68.2 | 69.9 | 72.9 | 78.4 | 81.7 | 82.6 | 77.0 |
| 125 | 57.1 | 60.3 | 62.2 | 64.2 | 66.2 | 67.7 | 69.0 | 71.2 | 74.4 | 78.4 | 82.7 | 83.0 | 77.3 |
| 160 | 58.7 | 61.7 | 63.6 | 65.6 | 67.4 | 69.1 | 70.6 | 72.6 | 76.3 | 79.5 | 83.0 | 82.8 | 77.8 |
| 200 | 62.3 | 65.1 | 67.0 | 67.8 | 68.8 | 69.8 | 71.6 | 73.3 | 76.0 | 79.4 | 81.6 | 77.4 | 74.4 |
| 250 | 60.2 | 63.4 | 66.4 | 67.5 | 69.3 | 71.0 | 72.0 | 74.2 | 76.6 | 78.5 | 80.0 | 80.6 | 76.0 |
| 315 | 59.9 | 63.8 | 65.6 | 66.6 | 68.2 | 70.2 | 72.4 | 74.1 | 76.5 | 78.6 | 79.0 | 78.3 | 74.0 |
| 400 | 60.3 | 64.0 | 66.5 | 66.6 | 68.7 | 70.4 | 72.2 | 74.4 | 76.2 | 77.8 | 76.4 | 75.5 | 70.7 |
| 500 | 59.6 | 62.6 | 66.0 | 67.1 | 69.2 | 70.0 | 71.5 | 73.9 | 75.5 | 76.5 | 74.2 | 72.7 | 67.6 |
| 630 | 59.2 | 63.3 | 65.7 | 66.7 | 68.8 | 69.6 | 71.8 | 74.2 | 75.7 | 72.8 | 71.1 | 65.3 | 61.6 |
| 800 | 57.6 | 61.1 | 64.2 | 65.6 | 67.5 | 69.3 | 70.5 | 73.1 | 74.6 | 73.6 | 70.2 | 68.5 | 61.6 |
| 1000 | 56.2 | 59.6 | 63.3 | 65.6 | 67.2 | 69.0 | 70.0 | 72.3 | 73.5 | 72.0 | 68.3 | 66.7 | 59.9 |
| 1250 | 55.0 | 59.2 | 61.9 | 64.1 | 66.8 | 68.6 | 69.8 | 71.1 | 72.2 | 70.1 | 67.4 | 65.1 | 58.2 |
| 1600 | 52.2 | 56.5 | 59.0 | 62.5 | 65.0 | 67.3 | 68.7 | 70.0 | 70.5 | 68.2 | 64.9 | 62.3 | 54.5 |
| 2000 | 49.0 | 52.5 | 57.5 | 60.1 | 63.4 | 65.2 | 66.2 | 68.1 | 68.2 | 65.7 | 61.8 | 59.2 | 50.4 |
| 2500 | 43.4 | 51.6 | 54.2 | 57.0 | 60.1 | 61.0 | 62.8 | 64.2 | 64.2 | 60.9 | 57.6 | 53.8 | 43.4 |
| 3150 | 37.4 | 46.7 | 50.2 | 53.5 | 56.6 | 57.5 | 58.9 | 59.7 | 60.2 | 55.3 | 51.4 | 45.4 | 32.7 |
| 4000 | 26.9 | 37.6 | 42.6 | 46.6 | 50.7 | 50.7 | 52.8 | 50.6 | 50.6 | 46.7 | 40.9 | 32.4 | 14.9 |
| 5000 | 20.8 | 33.3 | 37.2 | 42.0 | 45.6 | 46.1 | 47.3 | 45.2 | 46.2 | 39.7 | 34.9 | 23.1 | 3.1 |
| 6300 | 8.6 | 21.4 | 28.1 | 33.8 | 37.0 | 37.3 | 37.2 | 36.3 | 35.8 | 26.9 | 18.3 | 4.8 | |
| 8000 | 2.3 | 12.7 | 19.8 | 23.0 | 23.8 | 22.7 | 20.4 | 15.9 | 7.2 | | | | |
| 10000 | | | | 2.5 | 5.2 | | | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.2 | 73.7 | 76.1 | 77.5 | 79.5 | 81.0 | 82.5 | 84.5 | 86.7 | 88.7 | 90.8 | 90.9 | 86.3 |
| PNDB | 74.7 | 79.2 | 81.9 | 83.9 | 86.5 | 88.1 | 89.6 | 91.1 | 92.5 | 93.1 | 93.5 | 92.6 | 87.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 341 TEST POINT 341 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

| RDG. NO. | VEHICLE | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PWL | | | | | | | | |
|----------|----------------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | | | | | | | | | |
| 50 | RDG. NO. 63 | 50 | 82.4 | 85.4 | 86.7 | 87.2 | 87.8 | 89.4 | 92.5 | 93.7 | 95.7 | 99.5 | 106.9 | 109.1 | 110.2 | 154.5 |
| 63 | RDG. NO. 80 | 63 | 84.0 | 88.3 | 86.5 | 86.5 | 91.6 | 91.8 | 92.9 | 94.6 | 97.5 | 102.3 | 106.8 | 112.5 | 112.8 | 157.1 |
| 80 | RDG. NO. 100 | 80 | 86.3 | 88.0 | 89.3 | 89.3 | 90.7 | 91.8 | 93.7 | 95.6 | 99.3 | 104.9 | 111.8 | 113.8 | 113.5 | 158.2 |
| 100 | RDG. NO. 125 | 100 | 86.3 | 87.1 | 88.9 | 89.9 | 91.5 | 93.1 | 94.8 | 96.9 | 100.6 | 106.9 | 113.7 | 115.3 | 114.1 | 160.3 |
| 125 | RDG. NO. 150 | 125 | 88.2 | 89.5 | 90.0 | 91.8 | 92.9 | 94.2 | 96.4 | 98.5 | 102.0 | 108.8 | 115.0 | 117.2 | 115.0 | 161.8 |
| 150 | RDG. NO. 200 | 150 | 90.2 | 91.0 | 91.5 | 93.0 | 94.1 | 95.5 | 97.6 | 100.3 | 103.5 | 109.6 | 116.5 | 117.7 | 116.2 | 162.8 |
| 200 | RDG. NO. 250 | 200 | 94.8 | 95.8 | 95.6 | 95.9 | 96.5 | 97.3 | 98.7 | 101.1 | 104.1 | 109.9 | 116.4 | 117.0 | 116.1 | 162.6 |
| 250 | RDG. NO. 315 | 250 | 93.1 | 95.2 | 96.2 | 96.0 | 97.0 | 98.7 | 100.3 | 102.7 | 105.7 | 109.7 | 115.2 | 117.6 | 115.4 | 162.5 |
| 315 | RDG. NO. 400 | 315 | 92.7 | 94.0 | 94.3 | 95.6 | 96.4 | 97.0 | 98.2 | 100.2 | 102.1 | 105.5 | 109.4 | 114.3 | 116.7 | 161.8 |
| 400 | RDG. NO. 500 | 400 | 95.0 | 95.6 | 96.1 | 95.9 | 97.0 | 98.2 | 100.2 | 102.1 | 104.1 | 106.9 | 112.6 | 114.5 | 112.0 | 160.3 |
| 500 | RDG. NO. 630 | 500 | 100.2 | 98.7 | 97.5 | 97.0 | 97.8 | 98.2 | 100.3 | 102.7 | 106.2 | 108.3 | 110.7 | 113.4 | 110.7 | 159.4 |
| 630 | RDG. NO. 800 | 630 | 102.9 | 101.9 | 100.7 | 99.7 | 98.3 | 98.9 | 100.6 | 103.2 | 106.5 | 108.1 | 110.0 | 112.2 | 109.4 | 159.1 |
| 800 | RDG. NO. 1000 | 800 | 101.2 | 101.3 | 101.5 | 101.6 | 102.2 | 99.8 | 100.4 | 103.3 | 105.6 | 106.9 | 108.3 | 110.5 | 107.5 | 158.2 |
| 1000 | RDG. NO. 1250 | 1000 | 100.1 | 100.7 | 100.7 | 101.7 | 102.0 | 101.9 | 101.5 | 103.7 | 105.7 | 105.3 | 107.5 | 109.6 | 107.7 | 158.0 |
| 1250 | RDG. NO. 1600 | 1250 | 98.8 | 99.6 | 100.1 | 100.6 | 101.7 | 103.1 | 103.2 | 103.1 | 105.4 | 104.7 | 106.7 | 109.6 | 108.1 | 157.9 |
| 1600 | RDG. NO. 2000 | 1600 | 97.2 | 98.0 | 98.1 | 100.1 | 101.7 | 102.5 | 103.9 | 104.1 | 105.1 | 105.0 | 106.1 | 109.0 | 108.0 | 157.7 |
| 2000 | RDG. NO. 2500 | 2000 | 95.1 | 98.2 | 97.8 | 98.8 | 101.1 | 101.2 | 102.8 | 104.5 | 105.5 | 103.7 | 104.8 | 108.7 | 107.4 | 157.3 |
| 2500 | RDG. NO. 3150 | 2500 | 92.3 | 95.8 | 95.7 | 97.4 | 99.4 | 99.8 | 101.8 | 102.6 | 104.2 | 102.3 | 103.5 | 107.8 | 106.8 | 156.1 |
| 3150 | RDG. NO. 4000 | 3150 | 90.7 | 94.4 | 94.6 | 97.0 | 98.6 | 98.9 | 100.9 | 102.0 | 104.1 | 101.8 | 102.4 | 107.2 | 106.4 | 155.7 |
| 4000 | RDG. NO. 5000 | 4000 | 88.3 | 91.6 | 92.9 | 94.6 | 97.8 | 97.2 | 99.4 | 99.3 | 101.2 | 98.4 | 99.0 | 102.5 | 102.4 | 155.1 |
| 5000 | RDG. NO. 6300 | 5000 | 85.6 | 90.1 | 90.2 | 92.6 | 95.3 | 95.0 | 96.0 | 96.5 | 100.0 | 96.3 | 97.7 | 100.0 | 99.8 | 151.1 |
| 6300 | RDG. NO. 8000 | 6300 | 84.7 | 89.7 | 90.6 | 92.6 | 94.9 | 94.1 | 95.1 | 96.6 | 97.6 | 93.9 | 95.9 | 99.5 | 99.5 | 150.7 |
| 8000 | RDG. NO. 10000 | 8000 | 82.4 | 87.4 | 90.2 | 91.8 | 92.6 | 92.6 | 92.9 | 94.3 | 94.7 | 93.0 | 93.9 | 97.7 | 97.3 | 149.6 |
| 10000 | RDG. NO. 12500 | 10000 | 79.7 | 84.2 | 87.2 | 89.2 | 89.4 | 90.4 | 90.2 | 91.7 | 91.1 | 89.6 | 91.7 | 94.2 | 93.1 | 147.8 |
| 12500 | RDG. NO. 16000 | 12500 | 79.0 | 82.1 | 86.4 | 86.6 | 86.2 | 87.9 | 88.2 | 89.2 | 89.4 | 88.7 | 90.0 | 92.5 | 90.3 | 147.6 |
| 16000 | RDG. NO. 20000 | 16000 | 81.1 | 84.4 | 89.7 | 87.4 | 86.6 | 87.7 | 88.3 | 89.1 | 89.9 | 92.8 | 92.2 | 93.8 | 91.4 | 151.9 |
| 20000 | RDG. NO. 25000 | 20000 | 109.4 | 110.0 | 109.9 | 110.6 | 111.5 | 112.1 | 113.4 | 115.0 | 117.4 | 119.9 | 126.8 | 126.8 | 125.3 | 172.7 |
| 25000 | RDG. NO. 31500 | 25000 | 118.3 | 120.5 | 120.6 | 122.1 | 123.5 | 125.9 | 125.5 | 126.8 | 129.0 | 128.8 | 131.3 | 134.4 | 133.3 | |
| 31500 | RDG. NO. 40000 | 31500 | 118.3 | 120.5 | 120.6 | 122.1 | 123.5 | 125.9 | 125.5 | 126.8 | 129.0 | 128.8 | 131.3 | 134.4 | 133.3 | |

OVERALL CALCULATED
 PWB 118.3 120.5 120.6 122.1 123.5 125.9 126.8 129.0 128.8 131.3 134.4 133.3

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANFOCHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 342 ACOUSTIC RANGE 45.7m(150ft.) ARC
 SIZE FULL-.33m(13in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | |
|--|--------------------------|------|------|------|--|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (C.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)(3.3) | 54.2 | 58.8 | 61.1 | 62.4 | 63.4 | 65.7 | 68.2 | 68.9 | 70.1 | 72.9 | 78.8 | 78.7 | 70.3 |
| 63 | 55.7 | 61.6 | 60.9 | 64.0 | 67.2 | 67.5 | 68.5 | 69.7 | 71.9 | 75.7 | 80.5 | 82.0 | 78.7 |
| 80 | 57.9 | 61.3 | 63.7 | 64.4 | 66.2 | 67.5 | 69.2 | 70.7 | 73.7 | 78.1 | 83.5 | 83.1 | 79.4 |
| 100 | 57.9 | 60.3 | 63.2 | 64.9 | 67.0 | 68.7 | 70.2 | 71.9 | 74.9 | 80.1 | 85.2 | 84.6 | 79.7 |
| NFA (0. RAD/SEC) | 59.6 | 62.5 | 64.2 | 66.7 | 68.2 | 69.7 | 71.7 | 73.5 | 76.2 | 81.9 | 86.4 | 86.2 | 80.3 |
| NFK (1. RPM) | 61.5 | 63.9 | 65.6 | 67.9 | 69.4 | 70.9 | 72.9 | 75.1 | 77.6 | 82.5 | 87.8 | 86.5 | 81.3 |
| NFL (0. RAD/SEC) | 65.8 | 68.6 | 69.5 | 70.6 | 71.6 | 72.6 | 73.8 | 75.8 | 78.0 | 82.6 | 87.4 | 85.6 | 80.7 |
| NFD (7500. RPM) | 63.9 | 67.7 | 69.9 | 70.5 | 72.0 | 73.8 | 75.3 | 77.2 | 79.4 | 82.5 | 86.0 | 85.9 | 79.5 |
| (785. RAD/SEC) | 63.2 | 66.3 | 67.8 | 69.9 | 71.2 | 73.9 | 76.4 | 79.0 | 81.6 | 84.8 | 84.5 | 78.5 | |
| AIRFLOW RATIO | 65.0 | 67.5 | 69.2 | 69.9 | 71.4 | 72.9 | 75.2 | 76.9 | 79.2 | 80.8 | 82.6 | 81.8 | 75.2 |
| WF/HM 5.50 | 69.6 | 70.1 | 70.2 | 70.6 | 72.0 | 72.5 | 74.5 | 76.4 | 79.0 | 79.7 | 80.2 | 79.9 | 72.3 |
| VEHICLE CELL41 | 71.7 | 72.8 | 73.0 | 72.9 | 72.0 | 72.8 | 74.3 | 76.4 | 78.7 | 78.9 | 78.8 | 77.8 | 69.8 |
| CONFIG NC42 | 69.1 | 71.4 | 72.9 | 74.4 | 73.3 | 73.1 | 73.5 | 75.9 | 77.2 | 77.0 | 76.2 | 75.0 | 66.1 |
| LOC C41 ANECH CH | 66.9 | 69.9 | 71.5 | 73.6 | 74.5 | 74.5 | 74.0 | 75.6 | 76.5 | 74.5 | 74.3 | 72.7 | 64.2 |
| DATE 00-02-76 | 64.2 | 67.7 | 69.9 | 71.6 | 73.3 | 74.8 | 74.8 | 74.1 | 75.2 | 72.6 | 72.1 | 70.9 | 62.0 |
| RUN COMF3HIGHFLW | 60.7 | 64.5 | 66.5 | 69.7 | 72.0 | 73.1 | 74.2 | 73.7 | 73.5 | 71.4 | 69.7 | 67.8 | 58.2 |
| TAPE X0342C | 56.3 | 62.7 | 64.5 | 66.8 | 69.9 | 70.3 | 71.7 | 72.6 | 72.2 | 68.2 | 66.0 | 64.5 | 53.2 |
| FAN TIP SPEED FT/SEC | 50.1 | 57.6 | 59.9 | 63.2 | 66.1 | 66.8 | 68.5 | 68.5 | 68.4 | 64.1 | 61.3 | 59.3 | 46.1 |
| | 43.1 | 51.7 | 54.9 | 59.2 | 61.8 | 62.5 | 64.1 | 64.2 | 64.4 | 59.1 | 54.9 | 51.7 | 35.4 |
| | 32.7 | 42.1 | 47.3 | 51.4 | 56.0 | 55.7 | 57.6 | 56.1 | 55.6 | 49.0 | 43.4 | 36.4 | 15.9 |
| | 25.3 | 36.8 | 41.2 | 46.2 | 50.4 | 50.6 | 51.2 | 50.2 | 50.9 | 43.0 | 37.4 | 27.8 | 4.3 |
| | 10.6 | 24.9 | 31.5 | 37.0 | 41.2 | 41.0 | 41.4 | 41.0 | 38.5 | 29.1 | 21.8 | 9.6 | |
| | 5.0 | 15.7 | 22.0 | 25.5 | 26.3 | 25.7 | 24.6 | 20.2 | 10.7 | | | | |
| | | | | 3.5 | 5.7 | 4.3 | 2.3 | | | | | | |
| OVERALL CALCULATED | 77.6 | 79.8 | 81.1 | 82.4 | 83.5 | 84.5 | 85.7 | 87.2 | 89.2 | 91.7 | 95.4 | 94.8 | 89.5 |
| PNDB | 83.5 | 86.3 | 87.6 | 89.8 | 91.7 | 92.7 | 93.9 | 94.8 | 95.6 | 96.1 | 98.5 | 97.6 | 90.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 342 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1

FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 5 DAY 26 HR. 12.5

ANGLES FROM INLET IN DEGREES (AND RADIAN)

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. D. O. O. PHL

Table with columns: RDG. NO., RADIAL (40. FT.), VEHICLE, CONFIG, LOC, DATE, RUN, TAPE, BAR, TAMB, TWET, MACT, FREQ., JET O, DIAMETER RATIO, DF/DH 1, OVERALL MEASURED, OVERALL CALCULATED. The table contains multiple rows of data points corresponding to these parameters.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3, TEST POINT 343, ACOUSTIC RANGE 12.2m(40ft.) ARC, SIZE MODEL-109cm^2(16.9in^2)

PROC. DATE - MONTH 8 DAY 26 HR. 16.7
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% REG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)

| RDG. NO. | NO. EGA | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANs) | | | | | REL. HUM. | DAY | HR. | | | |
|--------------------|---------|-------|--|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | | | | | | |
| 50 | 79.6 | 82.2 | 83.7 | 85.3 | 87.4 | 89.5 | 91.0 | 92.9 | 97.7 | 103.4 | 105.9 | 106.7 | 151.3 |
| 63 | 86.7 | 85.3 | 83.8 | 83.9 | 89.5 | 90.4 | 92.3 | 93.3 | 100.1 | 105.3 | 109.0 | 109.3 | 153.8 |
| 80 | 85.5 | 85.0 | 87.0 | 87.1 | 88.4 | 89.5 | 91.2 | 93.8 | 97.0 | 102.9 | 108.1 | 110.3 | 155.4 |
| 100 | 84.1 | 84.9 | 86.1 | 87.2 | 88.8 | 90.9 | 92.3 | 94.7 | 98.4 | 104.4 | 109.2 | 111.6 | 156.3 |
| 125 | 84.9 | 86.7 | 87.2 | 89.0 | 90.1 | 92.0 | 93.9 | 96.3 | 100.2 | 105.0 | 109.8 | 112.4 | 157.2 |
| 160 | 86.7 | 88.0 | 89.0 | 90.0 | 91.6 | 93.0 | 94.9 | 97.8 | 101.5 | 105.8 | 109.8 | 111.2 | 157.0 |
| 200 | 89.0 | 90.3 | 91.1 | 91.9 | 93.0 | 94.3 | 96.0 | 99.4 | 102.1 | 106.4 | 108.6 | 108.5 | 159.1 |
| 250 | 88.1 | 89.9 | 91.4 | 92.0 | 92.8 | 94.9 | 96.3 | 99.5 | 102.4 | 105.7 | 106.7 | 108.1 | 155.3 |
| 315 | 88.7 | 90.8 | 91.0 | 92.1 | 92.9 | 95.8 | 96.7 | 99.3 | 102.8 | 105.6 | 106.3 | 106.7 | 154.9 |
| 400 | 88.8 | 90.3 | 91.8 | 91.9 | 93.5 | 95.3 | 97.2 | 100.1 | 102.8 | 105.2 | 104.6 | 104.8 | 154.0 |
| 500 | 88.9 | 90.7 | 92.2 | 92.2 | 94.1 | 95.4 | 96.8 | 100.0 | 103.7 | 104.3 | 103.2 | 103.9 | 153.6 |
| 630 | 89.9 | 92.2 | 93.2 | 92.8 | 94.6 | 95.7 | 97.6 | 100.8 | 103.5 | 103.8 | 103.5 | 103.4 | 153.6 |
| 800 | 88.5 | 90.3 | 91.6 | 92.6 | 93.6 | 95.3 | 97.2 | 99.6 | 103.1 | 103.7 | 102.1 | 102.8 | 152.9 |
| 1000 | 87.9 | 90.4 | 91.4 | 93.2 | 94.3 | 96.8 | 97.3 | 100.5 | 102.9 | 102.8 | 101.7 | 102.6 | 152.9 |
| 1250 | 87.8 | 89.8 | 91.4 | 93.1 | 94.5 | 96.6 | 97.7 | 99.9 | 102.6 | 102.5 | 101.9 | 103.3 | 153.1 |
| 1600 | 86.7 | 89.3 | 89.8 | 92.3 | 94.7 | 96.3 | 98.2 | 100.1 | 102.3 | 102.0 | 102.1 | 104.3 | 153.3 |
| 2000 | 85.3 | 89.7 | 90.3 | 91.5 | 94.1 | 95.2 | 97.3 | 100.2 | 102.8 | 101.6 | 101.8 | 104.4 | 153.3 |
| 2500 | 83.3 | 88.0 | 88.6 | 90.9 | 92.9 | 94.0 | 96.6 | 98.4 | 100.6 | 100.3 | 101.0 | 103.8 | 152.3 |
| 3150 | 82.1 | 87.6 | 88.3 | 90.5 | 92.5 | 93.6 | 95.1 | 97.5 | 100.5 | 99.5 | 100.1 | 102.9 | 151.7 |
| 4000 | 79.7 | 85.3 | 86.6 | 88.5 | 91.8 | 91.6 | 93.9 | 94.2 | 97.6 | 96.1 | 97.2 | 98.6 | 149.2 |
| 5000 | 77.5 | 84.5 | 84.6 | 86.5 | 89.4 | 89.9 | 91.8 | 91.9 | 96.1 | 93.7 | 96.8 | 95.9 | 147.5 |
| 6300 | 76.6 | 84.1 | 85.2 | 87.0 | 89.5 | 89.4 | 90.4 | 91.9 | 93.9 | 92.0 | 94.5 | 95.9 | 146.9 |
| 8000 | 73.9 | 81.7 | 84.2 | 85.6 | 87.7 | 87.7 | 88.7 | 90.1 | 91.7 | 90.5 | 92.4 | 92.3 | 145.6 |
| 10000 | 70.9 | 79.2 | 81.9 | 83.5 | 84.3 | 85.7 | 86.4 | 86.4 | 87.3 | 86.0 | 88.9 | 88.0 | 143.6 |
| 12500 | 69.2 | 77.3 | 81.3 | 81.3 | 83.8 | 84.8 | 85.4 | 85.3 | 83.7 | 84.0 | 87.1 | 85.1 | 143.4 |
| 16000 | 71.1 | 75.7 | 81.0 | 78.9 | 85.4 | 86.3 | 85.4 | 82.9 | 82.9 | 84.5 | 89.4 | 83.9 | 146.8 |
| OVERALL CALCULATED | 99.8 | 102.2 | 103.3 | 104.3 | 106.0 | 107.5 | 109.2 | 111.6 | 114.6 | 116.6 | 118.7 | 120.5 | 167.5 |
| PMDB | 109.3 | 113.4 | 114.3 | 115.9 | 117.9 | 119.1 | 120.8 | 122.9 | 125.8 | 126.0 | 127.1 | 128.9 | 129.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 343 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(1513in²)

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(1. RPM) | NFK
(0. RAD/SEC) | MFD
(7500. RPM) | AIRFLOW RATIO
M ³ /NM | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------|----------------------------------|------------------|----------------------|---------------------|-------------------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| 50 | 51.5 | 55.6 | 58.1 | 60.9 | 63.2 | 65.2 | 66.2 | 67.4 | 71.1 | 75.3 | 75.4 | 72.8 | | | | | | |
| 63 | 52.5 | 58.6 | 58.2 | 61.5 | 64.5 | 65.2 | 66.0 | 67.5 | 69.7 | 73.4 | 77.0 | 78.5 | | | | | | |
| 80 | 55.2 | 58.3 | 61.4 | 62.2 | 63.9 | 65.2 | 66.7 | 68.9 | 71.4 | 76.1 | 79.7 | 79.6 | | | | | | |
| 100 | 55.7 | 58.0 | 60.4 | 62.2 | 64.2 | 66.5 | 67.7 | 69.7 | 72.7 | 77.6 | 80.7 | 80.8 | | | | | | |
| 125 | 56.4 | 59.8 | 61.4 | 64.0 | 65.5 | 67.5 | 69.2 | 71.2 | 74.4 | 78.1 | 81.2 | 81.5 | | | | | | |
| 160 | 58.0 | 60.9 | 63.1 | 64.9 | 66.9 | 68.4 | 70.1 | 72.6 | 75.6 | 78.7 | 81.0 | 80.0 | | | | | | |
| 200 | 60.1 | 63.1 | 65.0 | 66.6 | 68.1 | 69.6 | 71.1 | 73.1 | 76.0 | 79.1 | 79.7 | 77.1 | | | | | | |
| 250 | 58.9 | 62.4 | 65.1 | 66.5 | 67.8 | 70.0 | 71.3 | 74.0 | 77.5 | 78.3 | 77.5 | 76.4 | | | | | | |
| 315 | 59.2 | 63.0 | 64.5 | 66.4 | 67.7 | 70.7 | 71.4 | 73.6 | 76.3 | 77.9 | 76.8 | 74.5 | | | | | | |
| 400 | 58.8 | 62.2 | 65.0 | 65.9 | 67.9 | 69.9 | 71.7 | 74.1 | 76.0 | 77.0 | 74.6 | 72.0 | | | | | | |
| 500 | 58.4 | 62.1 | 65.0 | 65.9 | 68.2 | 69.7 | 71.0 | 73.6 | 76.5 | 75.7 | 72.7 | 70.4 | | | | | | |
| 630 | 58.7 | 63.1 | 65.5 | 65.9 | 68.3 | 69.6 | 71.3 | 73.9 | 75.7 | 74.7 | 72.3 | 69.1 | | | | | | |
| 800 | 56.4 | 60.4 | 63.2 | 65.1 | 66.5 | 68.6 | 70.3 | 72.1 | 74.7 | 73.8 | 70.0 | 67.2 | | | | | | |
| 1000 | 54.7 | 59.6 | 62.3 | 65.1 | 66.7 | 68.8 | 69.7 | 72.3 | 73.8 | 72.0 | 68.6 | 65.7 | | | | | | |
| 1250 | 53.2 | 57.9 | 61.2 | 64.1 | 66.0 | 68.3 | 69.3 | 70.8 | 72.4 | 70.6 | 67.4 | 64.6 | | | | | | |
| 1600 | 50.2 | 55.7 | 58.2 | 62.0 | 65.0 | 66.8 | 68.5 | 69.7 | 70.7 | 68.4 | 65.6 | 63.0 | | | | | | |
| 2000 | 46.5 | 56.2 | 57.0 | 59.6 | 62.9 | 64.3 | 66.2 | 68.3 | 69.5 | 66.2 | 63.0 | 60.2 | | | | | | |
| 2500 | 41.1 | 49.8 | 52.9 | 56.7 | 59.6 | 61.0 | 63.3 | 64.2 | 64.9 | 62.1 | 58.8 | 55.2 | | | | | | |
| 3150 | 34.6 | 44.9 | 48.6 | 52.7 | 55.8 | 57.2 | 58.3 | 59.7 | 60.9 | 56.8 | 52.6 | 47.4 | | | | | | |
| 4000 | 24.3 | 35.8 | 41.0 | 45.3 | 49.9 | 50.1 | 52.0 | 51.0 | 52.0 | 46.6 | 41.6 | 32.6 | | | | | | |
| 5000 | 17.2 | 31.2 | 35.6 | 40.1 | 44.6 | 45.5 | 47.0 | 45.6 | 47.1 | 40.4 | 36.5 | 23.7 | | | | | | |
| 6300 | 2.5 | 19.3 | 26.1 | 31.4 | 35.8 | 36.4 | 38.8 | 36.6 | 34.9 | 27.2 | 20.4 | 5.9 | | | | | | |
| 8000 | | | 9.7 | 15.8 | 20.5 | 21.4 | 21.5 | 20.4 | 18.2 | 8.1 | | | | | | | | |
| 10000 | | | 0.9 | 0.9 | 0.5 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | |

OVERALL CALCULATED PRDB 69.0 72.8 75.2 76.8 78.8 80.6 82.0 84.2 86.5 88.2 89.3 88.6 84.3
 73.2 78.2 80.9 83.2 85.8 87.6 89.2 91.1 92.8 92.8 92.0 90.2 84.7

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 343 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 110. 120. 130. 140. 150. 160.

FREQ. (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)(3.15)(3.3)(3.45)(3.6)(3.75)(3.9)(4.05)(4.2)(4.35)(4.5)(4.65)(4.8)(5.0) (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)(3.15)(3.3)(3.45)(3.6)(3.75)(3.9)(4.05)(4.2)(4.35)(4.5)(4.65)(4.8)(5.0) PML

| RDG. NO. | NO. EGA | 40. FT. | 50. FT. | 60. FT. | 70. FT. | 80. FT. | 90. FT. | 100. FT. | 110. FT. | 120. FT. | 130. FT. | 140. FT. | 150. FT. | 160. FT. |
|--------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| 100 | 80 | 78.4 | 86.9 | 83.7 | 86.0 | 87.0 | 87.2 | 88.3 | 88.5 | 89.4 | 90.7 | 95.2 | 94.9 | 97.4 |
| 125 | 100 | 77.3 | 81.1 | 82.1 | 84.7 | 86.7 | 87.6 | 88.5 | 88.9 | 87.9 | 86.7 | 96.1 | 98.1 | 98.4 |
| 160 | 160 | 77.4 | 79.9 | 83.2 | 83.0 | 83.8 | 84.7 | 84.8 | 86.2 | 88.4 | 93.7 | 98.2 | 99.4 | 101.4 |
| 200 | 200 | 80.0 | 80.5 | 81.3 | 83.8 | 84.7 | 85.8 | 86.7 | 89.1 | 91.8 | 95.4 | 100.1 | 104.0 | 105.3 |
| 250 | 250 | 79.1 | 82.3 | 83.3 | 83.6 | 85.0 | 86.6 | 89.5 | 90.6 | 92.8 | 97.4 | 104.1 | 106.3 | 107.1 |
| 315 | 315 | 81.2 | 85.2 | 85.9 | 86.0 | 88.3 | 89.2 | 90.1 | 92.0 | 95.2 | 100.0 | 109.0 | 109.4 | 140.1 |
| 400 | 400 | 82.7 | 84.7 | 86.2 | 85.5 | 87.8 | 89.2 | 91.1 | 93.3 | 96.7 | 103.0 | 109.2 | 110.7 | 142.5 |
| 500 | 500 | 83.3 | 84.5 | 86.0 | 87.1 | 88.2 | 90.6 | 92.2 | 94.1 | 98.0 | 105.1 | 110.8 | 112.0 | 144.5 |
| 630 | 630 | 84.9 | 86.9 | 86.4 | 85.4 | 90.0 | 91.9 | 93.8 | 96.2 | 99.9 | 105.5 | 111.4 | 113.3 | 145.8 |
| 800 | 800 | 87.4 | 88.2 | 88.7 | 89.7 | 91.3 | 93.2 | 94.5 | 97.4 | 101.7 | 107.0 | 112.4 | 113.6 | 146.7 |
| 1000 | 1000 | 91.7 | 92.2 | 92.0 | 92.0 | 93.4 | 94.2 | 95.9 | 98.0 | 101.7 | 106.6 | 111.5 | 112.2 | 147.5 |
| 1250 | 1250 | 89.6 | 90.8 | 92.6 | 92.9 | 93.7 | 95.3 | 96.7 | 99.6 | 103.3 | 108.6 | 112.5 | 112.5 | 146.9 |
| 1600 | 1600 | 89.1 | 90.9 | 90.9 | 92.5 | 93.6 | 95.9 | 96.8 | 99.2 | 103.4 | 106.3 | 111.4 | 111.7 | 146.8 |
| 2000 | 2000 | 90.4 | 91.5 | 92.2 | 92.8 | 93.6 | 95.5 | 97.3 | 100.0 | 103.7 | 105.8 | 107.5 | 109.5 | 144.9 |
| 2500 | 2500 | 90.0 | 91.1 | 92.1 | 92.9 | 94.7 | 95.3 | 97.5 | 100.1 | 104.3 | 104.9 | 106.9 | 108.8 | 144.4 |
| 3150 | 3150 | 90.0 | 91.5 | 92.1 | 92.8 | 94.9 | 95.8 | 98.2 | 100.6 | 104.3 | 104.9 | 107.6 | 107.5 | 144.4 |
| 4000 | 4000 | 89.3 | 90.8 | 91.8 | 92.4 | 93.2 | 95.9 | 97.8 | 100.7 | 103.6 | 104.4 | 106.1 | 106.3 | 143.4 |
| 5000 | 5000 | 89.1 | 91.2 | 91.7 | 93.2 | 94.3 | 96.5 | 98.1 | 100.3 | 103.6 | 102.8 | 106.8 | 106.2 | 143.3 |
| 8000 | 8000 | 88.9 | 91.3 | 91.3 | 93.1 | 94.9 | 96.5 | 98.2 | 100.4 | 102.9 | 102.2 | 104.9 | 105.3 | 143.2 |
| 10000 | 10000 | 88.6 | 92.7 | 92.1 | 93.1 | 94.6 | 96.7 | 97.1 | 99.6 | 101.8 | 101.2 | 103.4 | 104.7 | 142.5 |
| 12500 | 12500 | 86.8 | 92.3 | 91.9 | 92.6 | 93.7 | 96.0 | 96.3 | 97.6 | 100.1 | 99.1 | 101.7 | 103.0 | 142.5 |
| 16000 | 16000 | 84.8 | 90.6 | 90.2 | 92.4 | 93.2 | 95.6 | 95.0 | 96.4 | 99.5 | 98.0 | 100.3 | 101.1 | 141.5 |
| 20000 | 20000 | 82.0 | 88.3 | 88.6 | 89.8 | 92.5 | 91.4 | 93.4 | 92.7 | 95.9 | 94.4 | 97.0 | 96.4 | 141.1 |
| 31500 | 31500 | 76.8 | 85.5 | 84.7 | 87.5 | 89.7 | 88.4 | 89.2 | 89.7 | 93.6 | 90.8 | 95.1 | 92.4 | 138.9 |
| 40000 | 40000 | 71.8 | 82.6 | 83.2 | 87.4 | 86.9 | 87.1 | 88.1 | 88.1 | 90.2 | 87.7 | 91.5 | 90.8 | 137.6 |
| 50000 | 50000 | 71.8 | 80.2 | 81.5 | 82.1 | 82.1 | 82.1 | 82.8 | 84.1 | 85.2 | 86.0 | 87.5 | 86.5 | 137.0 |
| 63000 | 63000 | 66.3 | 71.7 | 73.9 | 75.7 | 74.8 | 75.4 | 75.8 | 77.4 | 78.6 | 77.8 | 82.4 | 80.7 | 135.9 |
| 80000 | 80000 | 60.9 | 64.8 | 68.6 | 68.1 | 68.3 | 68.9 | 70.1 | 71.9 | 72.4 | 76.5 | 74.0 | 75.8 | 134.0 |
| OVERALL MEASURED | | 60.5 | 65.8 | 63.5 | 62.5 | 63.6 | 63.6 | 63.5 | 62.2 | 66.0 | 69.2 | 71.8 | 69.5 | 133.9 |
| OVERALL CALCULATED | | 101.2 | 103.5 | 103.8 | 106.9 | 106.3 | 107.5 | 109.3 | 111.6 | 114.9 | 117.1 | 121.2 | 122.6 | 122.2 |
| PNDB | | 113.7 | 115.6 | 115.9 | 116.9 | 118.5 | 119.7 | 121.7 | 124.4 | 127.6 | 129.1 | 132.4 | 133.3 | 133.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 344 ACUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JEROTS)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PUL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 52.4 | 55.7 | 58.7 | 61.7 | 64.7 | 67.7 | 70.7 | 73.7 | 76.7 | 79.7 | 82.7 | 85.7 | 88.7 | 155.0 |
| 63 | 24.5 | 28.5 | 32.5 | 36.5 | 40.5 | 44.5 | 48.5 | 52.5 | 56.5 | 60.5 | 64.5 | 68.5 | 72.5 | 157.3 |
| 80 | 86.0 | 88.0 | 89.5 | 91.0 | 92.5 | 94.0 | 95.5 | 97.0 | 98.5 | 100.0 | 101.5 | 103.0 | 104.5 | 159.3 |
| 100 | 86.6 | 87.9 | 89.4 | 90.8 | 92.2 | 93.6 | 95.0 | 96.4 | 97.8 | 99.2 | 100.6 | 102.0 | 103.4 | 160.6 |
| 125 | 88.2 | 90.2 | 92.2 | 94.2 | 96.2 | 98.2 | 100.2 | 102.2 | 104.2 | 106.2 | 108.2 | 110.2 | 112.2 | 161.5 |
| 160 | 90.7 | 91.3 | 92.0 | 93.0 | 94.0 | 95.0 | 96.0 | 97.0 | 98.0 | 99.0 | 100.0 | 101.0 | 102.0 | 162.4 |
| 200 | 95.0 | 95.6 | 96.3 | 97.0 | 97.7 | 98.4 | 99.1 | 99.8 | 100.5 | 101.2 | 101.9 | 102.6 | 103.3 | 161.6 |
| 250 | 93.1 | 94.2 | 95.3 | 96.4 | 97.5 | 98.6 | 99.7 | 100.8 | 101.9 | 103.0 | 104.1 | 105.2 | 106.3 | 160.8 |
| 315 | 92.5 | 94.3 | 95.5 | 96.8 | 98.1 | 99.4 | 100.7 | 102.0 | 103.3 | 104.6 | 105.9 | 107.2 | 108.5 | 159.7 |
| 400 | 93.8 | 94.8 | 95.6 | 96.1 | 97.0 | 97.8 | 98.7 | 99.5 | 100.4 | 101.3 | 102.2 | 103.1 | 104.0 | 159.2 |
| 500 | 93.4 | 94.4 | 95.5 | 96.2 | 97.0 | 97.8 | 98.6 | 99.4 | 100.2 | 101.0 | 101.8 | 102.6 | 103.4 | 158.1 |
| 630 | 94.4 | 94.9 | 95.5 | 96.2 | 96.8 | 97.5 | 98.2 | 98.9 | 99.6 | 100.3 | 101.0 | 101.7 | 102.4 | 158.0 |
| 800 | 92.7 | 94.3 | 95.3 | 95.8 | 96.7 | 97.5 | 98.3 | 99.1 | 99.9 | 100.7 | 101.5 | 102.3 | 103.1 | 157.3 |
| 1000 | 92.6 | 94.7 | 95.2 | 96.7 | 97.5 | 98.4 | 99.3 | 100.1 | 101.0 | 101.9 | 102.8 | 103.7 | 104.6 | 156.3 |
| 1250 | 92.5 | 94.8 | 94.9 | 96.6 | 98.5 | 100.1 | 101.7 | 103.3 | 104.9 | 106.5 | 108.1 | 109.7 | 111.3 | 155.9 |
| 1600 | 92.9 | 94.3 | 94.3 | 96.3 | 98.7 | 101.0 | 103.1 | 105.1 | 107.1 | 109.1 | 111.1 | 113.1 | 115.1 | 153.7 |
| 2000 | 92.6 | 96.7 | 96.0 | 97.0 | 98.6 | 100.7 | 103.5 | 106.6 | 109.6 | 112.6 | 115.6 | 118.6 | 121.6 | 151.8 |
| 2500 | 91.0 | 96.5 | 96.2 | 96.9 | 97.9 | 98.4 | 98.9 | 99.4 | 100.0 | 100.6 | 101.2 | 101.8 | 102.4 | 150.7 |
| 3150 | 89.7 | 95.4 | 95.1 | 97.3 | 98.1 | 98.4 | 98.9 | 99.3 | 99.7 | 100.1 | 100.5 | 100.9 | 101.3 | 148.8 |
| 4000 | 87.5 | 93.8 | 94.2 | 95.3 | 96.1 | 96.9 | 97.5 | 98.0 | 98.5 | 99.0 | 99.5 | 100.0 | 100.5 | 148.7 |
| 5000 | 85.9 | 92.4 | 91.5 | 94.3 | 96.5 | 95.3 | 96.0 | 96.3 | 96.6 | 96.9 | 97.2 | 97.5 | 97.8 | 153.4 |
| 6300 | 85.2 | 91.0 | 91.6 | 93.6 | 95.9 | 95.3 | 95.6 | 95.9 | 96.2 | 96.5 | 96.8 | 97.1 | 97.4 | 152.3 |
| 8000 | 82.6 | 88.9 | 91.0 | 92.3 | 92.9 | 93.6 | 94.3 | 94.8 | 95.3 | 95.9 | 96.4 | 96.9 | 97.4 | 151.8 |
| 10000 | 80.2 | 85.5 | 87.7 | 89.5 | 88.6 | 89.2 | 89.7 | 90.2 | 90.7 | 91.2 | 91.7 | 92.2 | 92.7 | 150.7 |
| 12500 | 79.2 | 83.1 | 86.9 | 86.9 | 86.4 | 86.6 | 87.2 | 87.6 | 88.1 | 88.6 | 89.1 | 89.6 | 90.1 | 148.8 |
| 16000 | 81.1 | 84.6 | 90.4 | 86.1 | 87.1 | 88.2 | 88.1 | 88.9 | 89.6 | 90.3 | 91.0 | 91.7 | 92.4 | 148.7 |
| OVERALL CALCULATED | 106.8 | 107.3 | 107.7 | 108.8 | 110.3 | 111.2 | 112.0 | 113.0 | 115.3 | 118.5 | 120.5 | 124.5 | 125.5 | 153.4 |
| PMD8 | 115.7 | 116.9 | 119.9 | 121.5 | 122.8 | 123.3 | 124.9 | 126.6 | 129.7 | 132.8 | 133.7 | 133.9 | 133.9 | 172.3 |

NO EGA
 ADG. NO. 0.
 RADIAL 150. FT.
 VEHICLE (46. M)
 CONFIG CELL 41
 LOC (41 ANECH CH
 DATE 06-02-76
 RUN CONF 3 HIGH FLK
 TAPE X03440
 BAR 29.4 MG
 (99347. M/M2)
 TAMB 66. DEG F
 (292. DEG K)
 TWET 83. DEG F
 (290. DEG K)
 MACT13.77 GM/M3
 (.01377 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 OF/DH 5.50

OVERALL CALCULATED
 PWD8

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 344 ACoustic RANGE 45.7m(150ft.) ARC
 SIZE FULL - 33mm (1.31in²)

| MO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. 9AY) | | | | |
|--|---|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. |
| FREQ. | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) |
| 50 | 54.2 | 59.1 | 61.1 | 62.2 | 63.9 |
| 63 | 56.2 | 61.8 | 60.7 | 64.5 | 67.2 |
| 80 | 57.7 | 61.3 | 63.9 | 66.7 | 68.2 |
| 100 | 58.2 | 61.0 | 63.7 | 65.4 | 67.0 |
| MFA (1. RPM | 59.6 | 63.3 | 63.9 | 66.7 | 68.7 |
| MFK (0. RAD/SEC) | 62.0 | 64.4 | 66.1 | 67.9 | 71.9 |
| MFL (1. RPK | 66.1 | 68.3 | 69.2 | 70.1 | 71.8 |
| MFO (0. RAD/SEC) | 63.9 | 66.7 | 69.6 | 70.7 | 72.0 |
| (785. RAD/SEC) | 62.9 | 66.5 | 67.8 | 70.1 | 71.7 |
| AIRFLOW RATIO | 63.8 | 66.7 | 68.7 | 70.1 | 71.4 |
| WF/WM 5.50 | 62.9 | 65.9 | 68.2 | 69.9 | 72.2 |
| VEHICLE CELL41 | 62.2 | 65.8 | 67.7 | 69.4 | 72.0 |
| CONFIG MC42 | 60.6 | 64.4 | 66.9 | 68.4 | 69.8 |
| LOC C41 ANECH CH | 59.4 | 63.9 | 66.0 | 68.6 | 70.2 |
| DATE 06-02-76 | 58.0 | 62.9 | 64.7 | 67.6 | 70.0 |
| RUN CONFHIGHFLW | 58.5 | 60.7 | 62.7 | 66.0 | 69.0 |
| TAPE X0344C | 53.8 | 61.2 | 62.7 | 65.1 | 67.4 |
| PAN TIP SPEED FT/SEC | 48.9 | 58.3 | 60.4 | 62.7 | 64.6 |
| | 42.1 | 52.7 | 55.4 | 59.5 | 63.3 |
| | 31.9 | 44.4 | 48.6 | 52.1 | 56.2 |
| | 5000 | 25.6 | 39.0 | 42.5 | 48.0 |
| | 6300 | 11.1 | 26.2 | 32.6 | 38.0 |
| | 8000 | 6.5 | 16.5 | 22.5 | 25.7 |
| | 12500 | | 0.0 | 2.7 | 4.4 |
| OVERALL CALCULATED | 73.5 | 76.9 | 78.7 | 80.5 | 82.4 |
| PNG8 | 78.4 | 83.6 | 85.5 | 87.9 | 90.2 |

| VEHICLE | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. 9AY) | | | | |
|----------------------|--|-------|-------|-------|-------|
| | 90. | 100. | 110. | 120. | 130. |
| CELL41 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 |
| MC42 | 85.7 | 95.7 | 105.7 | 115.7 | 125.7 |
| C41 ANECH CH | 82.4 | 92.4 | 102.4 | 112.4 | 122.4 |
| CONFHIGHFLW | 78.7 | 88.7 | 98.7 | 108.7 | 118.7 |
| X0344C | 75.0 | 85.0 | 95.0 | 105.0 | 115.0 |
| PAN TIP SPEED FT/SEC | 69.9 | 79.9 | 89.9 | 99.9 | 109.9 |
| | 67.3 | 77.3 | 87.3 | 97.3 | 107.3 |
| | 65.3 | 75.3 | 85.3 | 95.3 | 105.3 |
| | 62.0 | 72.0 | 82.0 | 92.0 | 102.0 |
| | 57.1 | 67.1 | 77.1 | 87.1 | 97.1 |
| | 55.8 | 65.8 | 75.8 | 85.8 | 95.8 |
| | 51.2 | 61.2 | 71.2 | 81.2 | 91.2 |
| | 42.3 | 52.3 | 62.3 | 72.3 | 82.3 |
| | 26.6 | 36.6 | 46.6 | 56.6 | 66.6 |
| | 4.4 | 14.4 | 24.4 | 34.4 | 44.4 |
| | 3.8 | 13.8 | 23.8 | 33.8 | 43.8 |
| OVERALL CALCULATED | 85.7 | 95.7 | 105.7 | 115.7 | 125.7 |
| PNG8 | 90.3 | 100.3 | 110.3 | 120.3 | 130.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 344 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

FACE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70-PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 25 HR. 12.4

| RDG. NO. | NO EGA | RADIAL (12. M) | VEHICLE CONFIG | LOC | DATE | RUN | TAPE | FREQ. (C.75)(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) | | | | | | | PWL | | | | |
|--------------------|--------|----------------|-----------------|-----|------|-----|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | | 110. | 120. | 130. | 140. |
| 63 | | | | | | | | 79.1 | 87.9 | 85.9 | 87.2 | 88.7 | 89.5 | 90.2 | 91.7 | 92.7 | 96.7 | 96.1 | 98.9 |
| 80 | | | | | | | | 78.8 | 82.4 | 83.9 | 86.4 | 88.2 | 89.2 | 90.2 | 89.4 | 88.7 | 97.4 | 98.8 | 99.9 |
| 125 | | | CELL41 | | | | | 79.1 | 81.2 | 84.4 | 85.0 | 85.5 | 85.8 | 87.0 | 88.9 | 94.5 | 98.7 | 100.4 | 102.7 |
| 160 | | | NC42 | | | | | 82.0 | 81.5 | 83.0 | 85.3 | 86.2 | 88.2 | 89.8 | 93.5 | 97.1 | 101.6 | 105.5 | 106.8 |
| 200 | | | C41 ANECH CH | | | | | 81.1 | 83.8 | 85.1 | 85.4 | 86.7 | 88.1 | 90.5 | 91.6 | 94.6 | 99.9 | 106.1 | 108.8 |
| 250 | | | 06-02-76 | | | | | 82.9 | 86.2 | 84.9 | 87.0 | 89.3 | 90.2 | 91.3 | 93.0 | 96.7 | 102.5 | 108.2 | 111.2 |
| 315 | | | CONF3HIGHFLW | | | | | 84.9 | 86.2 | 87.5 | 88.0 | 89.6 | 91.2 | 91.8 | 94.8 | 99.2 | 106.0 | 111.0 | 111.7 |
| 400 | | | XO3350 | | | | | 86.0 | 86.3 | 87.5 | 88.6 | 90.4 | 92.3 | 93.7 | 96.1 | 100.5 | 108.1 | 112.6 | 114.0 |
| 500 | | | 29.4 HG | | | | | 87.1 | 88.4 | 88.6 | 90.4 | 92.0 | 93.1 | 95.0 | 97.4 | 102.4 | 108.5 | 113.4 | 114.6 |
| 630 | | | (99347. N/M2) | | | | | 89.6 | 89.7 | 90.2 | 92.2 | 93.5 | 94.7 | 96.5 | 98.9 | 104.2 | 109.5 | 114.7 | 115.4 |
| 800 | | | TAMB 66. DEG F | | | | | 93.2 | 93.5 | 94.0 | 94.3 | 95.4 | 96.0 | 97.4 | 100.3 | 104.2 | 109.8 | 114.0 | 114.5 |
| 1000 | | | (292. DEG K) | | | | | 92.0 | 93.3 | 94.8 | 94.9 | 95.5 | 97.3 | 98.7 | 101.6 | 105.6 | 109.4 | 112.9 | 115.8 |
| 1250 | | | 63. DEG K | | | | | 91.6 | 92.6 | 92.9 | 94.0 | 95.3 | 97.4 | 98.6 | 101.2 | 106.2 | 108.8 | 112.0 | 114.2 |
| 1600 | | | (290. DEG K) | | | | | 92.7 | 93.0 | 94.0 | 94.3 | 95.6 | 97.2 | 99.1 | 102.3 | 105.7 | 108.3 | 111.0 | 114.2 |
| 2000 | | | MACT13.77 GM/M3 | | | | | 91.8 | 92.6 | 93.8 | 95.4 | 96.5 | 97.3 | 99.5 | 102.4 | 106.6 | 107.9 | 110.6 | 113.5 |
| 2500 | | | (0.1377 KG/M3) | | | | | 92.7 | 93.3 | 93.8 | 95.1 | 96.7 | 97.3 | 99.2 | 102.9 | 105.8 | 107.2 | 109.9 | 110.8 |
| 3150 | | | FREQ. SHIFT | | | | | 91.5 | 92.3 | 93.8 | 94.6 | 96.1 | 97.7 | 99.6 | 103.3 | 106.6 | 108.2 | 110.8 | 112.5 |
| 4000 | | | JET | | | | | 92.6 | 93.9 | 94.2 | 94.7 | 96.1 | 97.7 | 99.6 | 103.0 | 106.0 | 106.8 | 109.8 | 106.8 |
| 5000 | | | DIAMETER RATIO | | | | | 92.6 | 93.9 | 94.2 | 94.7 | 96.1 | 97.7 | 99.6 | 103.0 | 106.0 | 106.8 | 109.8 | 106.8 |
| 6300 | | | DF/DH 1 | | | | | 91.7 | 94.1 | 94.1 | 95.6 | 96.9 | 98.6 | 100.2 | 102.8 | 106.1 | 106.4 | 108.8 | 106.8 |
| 8000 | | | | | | | | 89.9 | 95.0 | 96.1 | 96.3 | 97.6 | 97.2 | 99.9 | 102.3 | 104.8 | 105.5 | 106.6 | 106.1 |
| 10000 | | | | | | | | 87.3 | 93.5 | 94.6 | 95.1 | 96.7 | 96.5 | 98.3 | 100.3 | 102.9 | 102.8 | 105.7 | 105.7 |
| 12500 | | | | | | | | 84.8 | 91.6 | 92.2 | 95.2 | 97.2 | 96.1 | 97.3 | 98.9 | 102.0 | 101.2 | 103.6 | 104.5 |
| 16000 | | | | | | | | 82.5 | 88.3 | 89.6 | 91.8 | 95.3 | 94.6 | 95.6 | 95.0 | 98.4 | 97.6 | 98.5 | 99.4 |
| 20000 | | | | | | | | 78.8 | 85.5 | 86.4 | 88.5 | 91.0 | 91.2 | 92.5 | 91.7 | 95.4 | 94.3 | 97.1 | 95.5 |
| 25000 | | | | | | | | 76.0 | 82.6 | 85.5 | 87.4 | 89.4 | 88.4 | 89.9 | 90.4 | 91.7 | 90.7 | 93.2 | 94.1 |
| 31500 | | | | | | | | 71.3 | 77.9 | 81.2 | 83.3 | 84.1 | 85.1 | 86.1 | 86.1 | 87.3 | 90.3 | 90.2 | 88.5 |
| 40000 | | | | | | | | 65.6 | 71.4 | 75.4 | 76.9 | 76.5 | 77.4 | 79.3 | 78.7 | 81.1 | 80.5 | 85.7 | 82.8 |
| 50000 | | | | | | | | 60.2 | 64.8 | 69.4 | 70.1 | 69.1 | 70.1 | 73.9 | 71.9 | 73.4 | 75.4 | 81.0 | 75.8 |
| 63000 | | | | | | | | 56.8 | 60.0 | 65.8 | 64.0 | 63.0 | 64.1 | 70.2 | 65.7 | 68.3 | 71.4 | 78.6 | 71.2 |
| 80000 | | | | | | | | 103.4 | 105.3 | 106.1 | 107.0 | 108.5 | 109.4 | 111.1 | 113.8 | 117.3 | 120.1 | 123.8 | 125.4 |
| 100000 | | | | | | | | 116.2 | 117.3 | 117.9 | 120.0 | 120.4 | 121.4 | 123.4 | 126.5 | 129.9 | 132.2 | 135.6 | 137.0 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 345 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | PWL | | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | | | | | | | | | |
| RDG. NO. | 50 | 84.4 | 87.2 | 88.4 | 88.7 | 89.2 | 90.0 | 91.4 | 93.8 | 95.0 | 98.2 | 103.2 | 109.4 | 111.4 | 112.2 | 156.8 |
| RADIAL 150. FT. | 63 | 86.2 | 89.5 | 88.3 | 90.3 | 93.1 | 93.5 | 94.6 | 96.3 | 100.0 | 105.0 | 105.8 | 111.5 | 114.2 | 114.5 | 159.2 |
| (46. M) | 80 | 88.3 | 89.5 | 90.8 | 91.3 | 92.9 | 94.5 | 95.2 | 98.1 | 102.5 | 109.4 | 114.3 | 116.3 | 115.0 | 161.3 | |
| VEHICLE | 100 | 89.3 | 89.6 | 90.9 | 91.9 | 93.8 | 95.6 | 97.0 | 99.4 | 103.9 | 111.4 | 115.9 | 117.3 | 115.9 | 162.6 | |
| CELL41 | 125 | 90.4 | 91.7 | 92.0 | 93.8 | 95.4 | 96.5 | 98.4 | 100.8 | 105.7 | 111.8 | 116.8 | 117.9 | 116.2 | 163.3 | |
| NC42 | 160 | 93.0 | 93.0 | 93.0 | 95.5 | 96.9 | 98.0 | 99.9 | 102.3 | 107.5 | 112.6 | 118.0 | 118.7 | 117.2 | 164.3 | |
| C41 AHECH CH | 200 | 96.5 | 96.8 | 97.3 | 97.6 | 98.7 | 99.3 | 100.7 | 103.6 | 107.0 | 113.2 | 117.4 | 117.8 | 117.8 | 164.1 | |
| 06-02-76 | 250 | 95.4 | 96.7 | 98.2 | 98.2 | 98.8 | 100.7 | 102.0 | 105.0 | 108.9 | 112.7 | 116.2 | 119.1 | 117.4 | 164.2 | |
| CONF3HIGHELW | 315 | 95.0 | 95.8 | 96.3 | 97.3 | 98.7 | 100.8 | 101.9 | 104.6 | 109.5 | 112.1 | 115.3 | 118.5 | 117.5 | 163.8 | |
| X0345G | 400 | 96.0 | 96.3 | 97.3 | 97.6 | 99.0 | 100.6 | 102.5 | 105.6 | 109.1 | 111.7 | 114.4 | 117.5 | 115.8 | 162.9 | |
| 29.4 HG | 500 | 95.2 | 95.9 | 97.2 | 98.7 | 99.8 | 100.7 | 102.8 | 105.7 | 110.0 | 111.3 | 114.0 | 116.9 | 114.2 | 162.5 | |
| (99347, M/M2) | 630 | 96.2 | 96.7 | 97.2 | 98.5 | 100.1 | 100.7 | 103.1 | 106.7 | 110.0 | 111.6 | 114.3 | 115.9 | 112.7 | 162.3 | |
| 66. DEG F | 800 | 95.0 | 95.8 | 97.3 | 98.1 | 99.2 | 100.8 | 102.7 | 106.3 | 109.3 | 110.6 | 113.3 | 114.2 | 110.3 | 161.2 | |
| (292. DEG K) | 1000 | 96.1 | 97.4 | 97.7 | 98.2 | 99.5 | 101.2 | 103.0 | 106.5 | 109.4 | 110.3 | 113.2 | 113.4 | 110.2 | 161.1 | |
| 63. DEG F | 1250 | 96.5 | 98.3 | 98.1 | 98.4 | 100.0 | 102.3 | 103.7 | 106.4 | 109.6 | 110.0 | 112.4 | 112.6 | 110.3 | 160.8 | |
| (290. DEG K) | 1600 | 95.4 | 97.8 | 97.8 | 99.3 | 100.7 | 102.3 | 103.9 | 106.6 | 109.1 | 109.7 | 112.1 | 112.5 | 109.8 | 160.7 | |
| GM/M3 | 2000 | 93.8 | 98.9 | 100.0 | 100.3 | 101.6 | 103.2 | 103.8 | 106.3 | 108.6 | 109.4 | 110.6 | 111.9 | 109.7 | 160.3 | |
| (.01377 KG/M3) | 2500 | 91.5 | 97.8 | 98.9 | 99.4 | 100.9 | 100.8 | 102.6 | 104.6 | 107.2 | 107.1 | 110.0 | 110.1 | 108.8 | 159.1 | |
| SHIFT | 3150 | 89.7 | 96.4 | 97.1 | 100.0 | 102.1 | 100.9 | 102.1 | 103.8 | 106.8 | 106.1 | 108.4 | 109.2 | 108.4 | 158.6 | |
| JET | 4000 | 88.0 | 93.8 | 95.2 | 97.3 | 100.8 | 100.2 | 101.2 | 103.5 | 103.9 | 103.2 | 104.0 | 105.0 | 104.4 | 156.0 | |
| RATIO | 5000 | 85.6 | 92.4 | 93.2 | 95.3 | 97.8 | 98.0 | 99.3 | 98.5 | 102.2 | 101.1 | 103.9 | 102.7 | 102.3 | 154.4 | |
| DF/DM | 6300 | 84.4 | 91.0 | 93.9 | 95.9 | 97.9 | 96.8 | 98.3 | 98.8 | 100.1 | 99.2 | 101.6 | 102.5 | 100.8 | 153.8 | |
| 5.50 | 8000 | 82.1 | 88.6 | 92.0 | 94.0 | 95.1 | 94.9 | 95.9 | 96.8 | 97.9 | 98.0 | 101.1 | 101.0 | 99.3 | 153.0 | |
| | 10000 | 79.4 | 85.2 | 89.2 | 90.7 | 90.4 | 91.2 | 93.2 | 92.5 | 94.9 | 94.3 | 99.5 | 97.5 | 96.6 | 151.2 | |
| | 12500 | 78.5 | 83.1 | 87.7 | 88.4 | 87.4 | 88.4 | 88.4 | 92.2 | 90.2 | 91.6 | 93.7 | 99.2 | 95.7 | 94.0 | |
| | 16000 | 81.4 | 84.6 | 90.4 | 88.6 | 87.6 | 88.7 | 94.8 | 90.4 | 92.9 | 96.0 | 103.2 | 95.8 | 97.4 | 151.5 | |
| OVERALL CALCULATED | 107.0 | 109.0 | 109.9 | 110.9 | 112.5 | 113.3 | 115.0 | 117.5 | 120.9 | 123.5 | 127.2 | 128.8 | 127.3 | 127.0 | 175.0 | |
| PHBB | 117.1 | 121.2 | 122.3 | 123.9 | 125.6 | 127.1 | 128.9 | 132.1 | 133.0 | 135.9 | 136.8 | 135.4 | 135.4 | 135.4 | 175.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 345 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY) | | | | 100. | 110. | 120. | 130. | 140. | 150. | 160. | O. | C. | O. |
|--------------------|--|------|------|------|------|------|------|------|------|------|-------|------|------|----|
| | 40. | 50. | 60. | 70. | | | | | | | | | | |
| 50 | 56.2 | 62.6 | 62.9 | 63.9 | 65.7 | 69.2 | 69.4 | 70.2 | 72.6 | 76.6 | 81.3 | 80.9 | 78.3 | |
| 63 | 58.0 | 62.8 | 62.7 | 65.5 | 68.4 | 70.2 | 70.7 | 73.2 | 76.9 | 82.6 | 86.0 | 85.6 | 80.9 | |
| 80 | 59.9 | 62.8 | 65.2 | 66.4 | 68.4 | 70.2 | 70.7 | 73.2 | 76.9 | 82.6 | 86.0 | 85.6 | 81.5 | |
| 100 | 60.9 | 62.8 | 65.2 | 66.9 | 69.2 | 71.2 | 72.5 | 74.4 | 78.2 | 84.6 | 87.5 | 86.6 | 81.6 | |
| 125 | 61.9 | 64.8 | 66.2 | 68.7 | 70.7 | 72.0 | 73.7 | 75.7 | 79.9 | 84.9 | 88.2 | 87.0 | 81.6 | |
| 160 | 64.2 | 65.9 | 67.6 | 70.4 | 72.1 | 73.4 | 75.1 | 77.1 | 81.6 | 87.7 | 89.3 | 87.5 | 82.3 | |
| 200 | 67.6 | 69.6 | 71.2 | 72.3 | 75.8 | 74.6 | 75.8 | 78.3 | 81.5 | 85.9 | 86.4 | 86.3 | 82.4 | |
| 250 | 66.2 | 69.2 | 71.9 | 72.7 | 73.8 | 75.8 | 77.0 | 79.5 | 82.6 | 85.3 | 87.0 | 87.4 | 81.5 | |
| 315 | 65.4 | 68.0 | 69.8 | 71.6 | 73.4 | 75.7 | 76.7 | 78.9 | 82.0 | 85.4 | 85.8 | 86.3 | 81.0 | |
| 400 | 66.0 | 68.2 | 70.5 | 71.6 | 73.4 | 75.2 | 76.9 | 79.6 | 82.2 | 85.5 | 84.4 | 84.8 | 78.5 | |
| 500 | 64.6 | 67.4 | 70.0 | 72.4 | 74.0 | 75.0 | 77.0 | 79.4 | 82.7 | 85.5 | 83.4 | 83.4 | 75.8 | |
| 630 | 64.9 | 67.6 | 69.5 | 71.7 | 73.8 | 74.6 | 76.8 | 79.9 | 82.2 | 82.4 | 83.1 | 81.6 | 73.0 | |
| 800 | 62.9 | 65.9 | 68.9 | 70.6 | 72.3 | 74.1 | 75.8 | 78.9 | 80.9 | 80.6 | 81.2 | 78.7 | 68.8 | |
| 1000 | 62.9 | 66.6 | 68.5 | 70.1 | 72.0 | 73.8 | 75.5 | 78.3 | 80.3 | 79.5 | 80.0 | 76.5 | 66.7 | |
| 1250 | 62.0 | 66.4 | 67.9 | 69.3 | 71.5 | 74.1 | 75.3 | 77.5 | 79.4 | 78.1 | 77.9 | 73.9 | 64.2 | |
| 1600 | 59.0 | 64.2 | 66.2 | 69.0 | 71.0 | 72.8 | 74.2 | 76.2 | 77.5 | 76.2 | 75.7 | 71.3 | 60.0 | |
| 2000 | 59.0 | 63.5 | 66.7 | 68.3 | 70.4 | 70.3 | 72.7 | 74.3 | 75.5 | 74.0 | 71.8 | 67.7 | 55.4 | |
| 2500 | 49.4 | 59.6 | 63.2 | 65.2 | 67.6 | 67.8 | 69.3 | 70.5 | 71.4 | 68.9 | 67.8 | 61.5 | 48.1 | |
| 3150 | 42.1 | 53.7 | 57.4 | 62.2 | 65.3 | 64.5 | 65.4 | 66.0 | 67.2 | 63.3 | 60.9 | 53.7 | 37.4 | |
| 4000 | 32.4 | 44.4 | 49.6 | 54.1 | 59.0 | 58.7 | 59.3 | 57.3 | 58.3 | 53.7 | 48.4 | 38.9 | 17.9 | |
| 5000 | 25.3 | 39.0 | 44.2 | 49.0 | 52.9 | 53.6 | 54.4 | 52.2 | 53.2 | 47.7 | 43.6 | 30.6 | 6.8 | |
| 6300 | 26.2 | 34.8 | 40.3 | 44.2 | 43.8 | 44.7 | 45.3 | 41.0 | 36.4 | 27.6 | 27.6 | 12.6 | | |
| 8000 | 10.4 | 6.3 | 17.5 | 24.3 | 28.0 | 28.7 | 27.1 | 23.4 | 15.7 | 5.9 | | | | |
| 10000 | | | 1.3 | 4.5 | 6.4 | 7.3 | 3.0 | | | | | | | |
| 12500 | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 75.7 | 78.7 | 80.8 | 82.6 | 84.4 | 85.9 | 87.4 | 89.8 | 92.7 | 95.3 | 97.3 | 96.5 | 91.3 | |
| PHDB | 80.6 | 85.6 | 88.4 | 90.5 | 92.7 | 93.6 | 95.2 | 97.0 | 99.1 | 99.7 | 101.0 | 99.7 | 93.1 | |

VEHICLE CELL41
 CONFIG NC42
 LOC C41 ANECH CH
 DAYS 06-02-76
 RUN COMF3HIGHFLW
 TAPE X03450
 FAN TIP SPEED FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
 731.52 M (2400 FT.) SIDELINE FULL-.33m² (513in²)

C. 4

RDG. NO. 0. RADIAL 40. FT. VEHICLE CELL41 CONFIG NC42 LOC C41 ANECH CH DATE 06-02-76 RUN CONF3HIGHFLW TAPE X03460 JAR 29.4 HG (99347. N/M2) TAMB 64. DEG F (291. DEG K) TWET 61. DEG F (289. DEG K) HACT13.05 GM/M3 (.01305 KG/M3) FREQ. SHIFT JET DIAMETER RATIO DF/DM 1

| NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-----|
| FREQ. (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)(3.15)(3.3)(3.46)(3.63)(3.81)(4.0) | | | | | | | | | | | | | | | | | |
| 50 | 76.9 | 86.2 | 84.2 | 85.5 | 87.0 | 86.9 | 87.3 | 88.5 | 89.4 | 91.0 | 94.6 | 94.9 | 97.2 | 132.0 | | | |
| 63 | 75.8 | 80.6 | 81.9 | 84.2 | 86.0 | 87.4 | 88.0 | 88.9 | 87.4 | 87.2 | 95.4 | 97.6 | 97.9 | 132.4 | | | |
| 80 | 76.6 | 79.2 | 82.4 | 83.0 | 83.5 | 84.2 | 84.0 | 86.2 | 88.4 | 93.2 | 97.2 | 98.6 | 100.7 | 133.7 | | | |
| 100 | 79.5 | 79.8 | 81.3 | 83.8 | 84.9 | 85.4 | 86.4 | 89.6 | 91.8 | 95.4 | 99.8 | 104.0 | 105.0 | 137.6 | | | |
| 125 | 78.6 | 81.6 | 83.1 | 83.4 | 85.2 | 86.6 | 89.2 | 90.6 | 92.8 | 97.7 | 104.1 | 106.0 | 106.6 | 139.9 | | | |
| 150 | 80.4 | 84.7 | 83.2 | 85.7 | 88.1 | 88.4 | 89.6 | 92.2 | 95.2 | 100.3 | 106.0 | 108.9 | 109.2 | 142.4 | | | |
| 175 | 82.7 | 84.5 | 86.0 | 86.0 | 88.1 | 89.0 | 90.3 | 93.3 | 97.5 | 103.3 | 109.0 | 116.7 | 110.0 | 144.4 | | | |
| 200 | 83.0 | 84.0 | 85.8 | 87.1 | 88.7 | 90.5 | 91.7 | 94.8 | 98.8 | 105.1 | 110.3 | 111.7 | 109.8 | 145.4 | | | |
| 225 | 84.4 | 86.4 | 86.6 | 88.7 | 90.5 | 91.6 | 93.3 | 96.2 | 100.4 | 106.0 | 110.7 | 112.8 | 110.6 | 146.2 | | | |
| 250 | 86.9 | 87.7 | 87.9 | 90.2 | 91.5 | 92.9 | 94.8 | 97.7 | 101.9 | 106.7 | 111.7 | 113.4 | 111.9 | 147.1 | | | |
| 275 | 89.5 | 90.5 | 91.2 | 92.0 | 92.6 | 94.0 | 95.6 | 98.5 | 102.0 | 106.8 | 110.5 | 112.2 | 111.7 | 146.5 | | | |
| 300 | 88.0 | 90.1 | 91.8 | 92.1 | 92.9 | 95.1 | 96.7 | 99.1 | 103.1 | 106.4 | 109.1 | 113.0 | 111.3 | 146.4 | | | |
| 325 | 88.1 | 89.7 | 90.4 | 92.0 | 92.3 | 95.4 | 96.3 | 99.0 | 103.7 | 106.3 | 108.2 | 111.4 | 111.7 | 145.8 | | | |
| 350 | 88.7 | 90.0 | 91.7 | 92.0 | 93.3 | 95.2 | 97.6 | 100.0 | 103.7 | 106.1 | 107.3 | 110.9 | 109.7 | 145.2 | | | |
| 375 | 88.8 | 89.6 | 90.6 | 92.9 | 94.7 | 95.6 | 97.5 | 100.1 | 104.6 | 105.4 | 107.1 | 110.3 | 108.3 | 144.9 | | | |
| 400 | 89.2 | 90.0 | 91.1 | 92.6 | 94.4 | 95.5 | 97.7 | 101.1 | 104.6 | 105.4 | 107.6 | 110.0 | 107.3 | 144.1 | | | |
| 425 | 88.5 | 88.8 | 90.6 | 92.1 | 93.4 | 95.3 | 97.4 | 100.9 | 103.8 | 104.9 | 106.3 | 108.5 | 105.1 | 143.6 | | | |
| 450 | 87.4 | 89.4 | 90.7 | 92.5 | 93.8 | 95.7 | 97.6 | 100.7 | 103.2 | 103.8 | 106.3 | 107.7 | 105.2 | 143.7 | | | |
| 475 | 87.2 | 89.5 | 90.3 | 92.6 | 94.1 | 96.5 | 97.9 | 100.6 | 103.6 | 103.7 | 105.8 | 107.2 | 106.0 | 143.4 | | | |
| 500 | 87.0 | 89.8 | 90.6 | 92.4 | 94.2 | 96.1 | 98.5 | 100.9 | 103.1 | 103.2 | 105.4 | 107.1 | 106.1 | 142.2 | | | |
| 525 | 85.9 | 91.0 | 91.3 | 92.6 | 94.1 | 95.2 | 97.1 | 100.3 | 102.6 | 102.7 | 104.4 | 106.7 | 105.2 | 141.7 | | | |
| 550 | 84.8 | 91.8 | 92.6 | 92.9 | 93.2 | 93.8 | 95.8 | 98.1 | 100.9 | 100.6 | 102.7 | 104.5 | 103.8 | 139.2 | | | |
| 575 | 82.6 | 89.6 | 90.8 | 93.2 | 94.0 | 93.1 | 94.8 | 96.7 | 99.8 | 98.8 | 101.1 | 102.9 | 102.3 | 137.8 | | | |
| 600 | 79.5 | 85.6 | 87.9 | 90.3 | 92.8 | 92.2 | 92.5 | 95.9 | 95.2 | 97.3 | 98.2 | 97.6 | 97.6 | 137.4 | | | |
| 625 | 76.3 | 83.6 | 84.0 | 86.8 | 89.3 | 89.5 | 90.2 | 89.3 | 93.2 | 91.3 | 95.9 | 94.4 | 94.8 | 136.4 | | | |
| 650 | 73.3 | 80.7 | 83.1 | 85.3 | 86.5 | 86.8 | 87.5 | 88.5 | 90.0 | 88.9 | 92.3 | 92.9 | 91.7 | 134.3 | | | |
| 675 | 75.8 | 79.4 | 81.4 | 81.2 | 81.8 | 82.5 | 84.0 | 85.6 | 85.4 | 88.5 | 89.4 | 87.4 | 87.4 | 134.0 | | | |
| 700 | 68.4 | 73.5 | 74.9 | 74.0 | 75.1 | 75.5 | 77.3 | 78.8 | 78.7 | 83.1 | 83.1 | 81.2 | 81.2 | 134.0 | | | |
| 725 | 61.3 | 67.6 | 68.1 | 66.9 | 68.3 | 68.2 | 69.4 | 72.1 | 71.4 | 77.0 | 77.2 | 74.5 | 74.5 | 138.0 | | | |
| 750 | 49.7 | 55.7 | 64.8 | 63.3 | 62.0 | 63.1 | 63.0 | 61.5 | 66.6 | 65.0 | 72.1 | 70.7 | 71.3 | 138.0 | | | |
| 775 | 102.2 | 103.3 | 104.7 | 106.0 | 107.4 | 109.1 | 111.8 | 115.1 | 117.4 | 120.8 | 123.0 | 121.8 | 121.8 | 137.8 | | | |
| 800 | 112.5 | 114.0 | 115.1 | 116.6 | 118.1 | 119.6 | 121.4 | 124.4 | 127.8 | 129.5 | 132.3 | 134.6 | 132.8 | 137.8 | | | |

OVERALL MEASURED
OVERALL CALCULATED
PNUB

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 346 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

PAGE 9 FULL SCALE DATA REDUCTION PROGRAM

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JEMOITS) | | | | | | | | | | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
| 50 | 82.1 | 84.9 | 86.4 | 86.7 | 88.5 | 89.9 | 92.5 | 94.0 | 96.2 | 101.0 | 107.4 | 109.4 | 109.9 | 115.7 | 120.0 | 125.0 | 130.0 |
| 63 | 83.7 | 88.0 | 89.3 | 89.3 | 91.4 | 91.8 | 92.9 | 95.6 | 98.5 | 103.6 | 109.3 | 112.2 | 112.5 | 117.2 | 121.5 | 126.0 | 131.0 |
| 80 | 86.0 | 87.8 | 89.3 | 89.3 | 91.4 | 92.3 | 93.7 | 96.6 | 100.8 | 106.6 | 112.3 | 114.0 | 113.3 | 118.0 | 122.5 | 127.0 | 132.0 |
| 100 | 86.3 | 87.4 | 89.1 | 90.4 | 92.0 | 93.9 | 95.0 | 98.2 | 102.1 | 108.4 | 113.7 | 115.1 | 113.1 | 118.0 | 122.5 | 127.0 | 132.0 |
| 125 | 87.7 | 89.7 | 90.0 | 92.0 | 93.9 | 95.0 | 96.6 | 99.5 | 103.7 | 109.3 | 114.0 | 116.2 | 114.0 | 119.0 | 123.5 | 128.0 | 133.0 |
| 160 | 90.2 | 91.0 | 91.2 | 93.5 | 94.9 | 96.2 | 98.1 | 101.0 | 105.2 | 110.1 | 115.0 | 116.7 | 114.0 | 119.0 | 123.5 | 128.0 | 133.0 |
| 200 | 92.8 | 93.8 | 94.6 | 95.4 | 96.0 | 97.3 | 99.0 | 101.9 | 105.3 | 110.2 | 115.0 | 116.7 | 114.0 | 119.0 | 123.5 | 128.0 | 133.0 |
| 250 | 91.4 | 93.4 | 93.2 | 95.5 | 96.3 | 98.4 | 100.0 | 102.5 | 106.4 | 109.7 | 112.4 | 116.4 | 114.7 | 119.0 | 123.5 | 128.0 | 133.0 |
| 315 | 91.5 | 93.0 | 93.8 | 95.3 | 95.7 | 98.8 | 99.7 | 102.3 | 107.0 | 109.6 | 111.6 | 114.7 | 115.0 | 119.0 | 123.5 | 128.0 | 133.0 |
| 400 | 92.0 | 93.3 | 95.1 | 95.4 | 96.7 | 98.6 | 101.0 | 103.4 | 107.1 | 109.4 | 110.6 | 114.3 | 113.1 | 118.0 | 122.5 | 127.0 | 132.0 |
| 500 | 92.2 | 92.9 | 94.0 | 96.2 | 98.1 | 98.9 | 100.8 | 103.5 | 108.0 | 108.8 | 110.5 | 113.7 | 111.7 | 116.0 | 120.5 | 125.0 | 130.0 |
| 630 | 92.7 | 93.4 | 94.5 | 96.0 | 97.8 | 98.9 | 101.1 | 104.5 | 108.0 | 108.8 | 111.0 | 113.4 | 111.7 | 116.0 | 120.5 | 125.0 | 130.0 |
| 800 | 92.0 | 92.3 | 94.3 | 95.6 | 96.9 | 98.3 | 100.9 | 104.3 | 107.3 | 108.4 | 111.0 | 113.4 | 111.7 | 116.0 | 120.5 | 125.0 | 130.0 |
| 1000 | 90.9 | 92.9 | 94.2 | 96.0 | 97.3 | 99.2 | 101.0 | 104.2 | 106.7 | 107.3 | 109.7 | 111.1 | 108.7 | 113.0 | 117.5 | 122.0 | 126.5 |
| 1250 | 90.8 | 93.1 | 94.4 | 96.1 | 97.7 | 100.1 | 101.5 | 104.1 | 107.1 | 107.2 | 109.4 | 110.8 | 109.6 | 113.0 | 117.5 | 122.0 | 126.5 |
| 1600 | 90.7 | 93.5 | 94.3 | 96.1 | 97.9 | 99.8 | 102.2 | 104.6 | 106.8 | 107.0 | 109.1 | 110.8 | 109.8 | 113.0 | 117.5 | 122.0 | 126.5 |
| 2000 | 89.8 | 94.9 | 95.3 | 96.5 | 98.1 | 99.2 | 101.1 | 104.3 | 106.5 | 106.7 | 108.3 | 110.7 | 109.2 | 113.0 | 117.5 | 122.0 | 126.5 |
| 2500 | 89.1 | 96.1 | 96.9 | 97.1 | 97.5 | 98.1 | 100.1 | 102.4 | 105.2 | 104.9 | 107.0 | 108.8 | 108.1 | 113.0 | 117.5 | 122.0 | 126.5 |
| 3150 | 87.4 | 94.4 | 95.6 | 98.1 | 98.8 | 97.9 | 99.6 | 101.6 | 104.6 | 103.6 | 106.0 | 107.7 | 107.2 | 113.0 | 117.5 | 122.0 | 126.5 |
| 4000 | 85.1 | 91.1 | 93.5 | 95.9 | 98.4 | 97.7 | 98.7 | 98.1 | 101.5 | 100.7 | 102.9 | 103.8 | 103.1 | 113.0 | 117.5 | 122.0 | 126.5 |
| 5000 | 83.2 | 90.4 | 90.8 | 93.6 | 96.1 | 96.3 | 97.0 | 96.1 | 100.0 | 98.2 | 102.7 | 101.3 | 101.6 | 113.0 | 117.5 | 122.0 | 126.5 |
| 6300 | 81.8 | 89.1 | 91.5 | 93.7 | 95.0 | 95.2 | 95.9 | 96.9 | 98.5 | 97.3 | 100.8 | 101.4 | 100.1 | 113.0 | 117.5 | 122.0 | 126.5 |
| 8000 | 78.5 | 86.5 | 90.1 | 92.2 | 92.0 | 92.5 | 93.2 | 94.7 | 96.3 | 96.2 | 99.3 | 100.1 | 98.2 | 113.0 | 117.5 | 122.0 | 126.5 |
| 10000 | 74.5 | 82.2 | 87.4 | 88.7 | 87.8 | 88.9 | 89.3 | 91.1 | 92.6 | 92.6 | 96.9 | 96.9 | 95.0 | 113.0 | 117.5 | 122.0 | 126.5 |
| 12500 | 72.9 | 79.6 | 85.9 | 86.4 | 85.1 | 86.6 | 86.4 | 87.6 | 89.4 | 89.7 | 95.2 | 95.5 | 92.7 | 113.0 | 117.5 | 122.0 | 126.5 |
| 16000 | 74.3 | 80.4 | 89.4 | 87.9 | 86.6 | 87.7 | 87.6 | 86.1 | 91.2 | 89.6 | 96.7 | 95.3 | 95.9 | 113.0 | 117.5 | 122.0 | 126.5 |
| OVERALL CALCULATED | 103.2 | 103.9 | 107.2 | 108.6 | 109.9 | 111.1 | 112.9 | 115.4 | 118.7 | 120.9 | 124.2 | 126.4 | 125.1 | 132.0 | 135.0 | 138.0 | 142.5 |
| PMDB | 113.6 | 118.7 | 119.9 | 121.7 | 122.8 | 123.2 | 124.8 | 126.8 | 129.9 | 130.5 | 133.1 | 135.0 | 133.9 | 148.8 | 152.0 | 156.5 | 162.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 346 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(13in)²

NO EGA
 SIDELINE 2400. FT.
 (731.52 M)
 NFA (1. RPM
 (0. RAD/SEC)
 NFK (1. RPM
 (0. RAD/SEC)
 NFD (7500. RPM
 (785. RAD/SEC)
 AIRFLOW RATIO
 WF/WM 5.50

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

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50 | 54.0 | 58.3 | 60.9 | 61.9 | 64.2 | 65.7 | 68.2 | 69.2 | 70.6 | 74.4 | 79.3 | 78.9 | 76.0 |
| 63 | 55.5 | 61.3 | 60.9 | 64.2 | 67.0 | 67.5 | 68.5 | 70.7 | 72.9 | 76.9 | 81.0 | 81.7 | 78.5 |
| 80 | 57.7 | 61.1 | 63.7 | 64.4 | 66.9 | 68.0 | 69.2 | 71.7 | 75.2 | 79.9 | 84.0 | 83.4 | 79.1 |
| 100 | 57.9 | 60.5 | 63.4 | 65.4 | 67.5 | 69.5 | 70.5 | 73.2 | 76.4 | 81.6 | 85.2 | 84.3 | 78.7 |
| 125 | 59.1 | 62.8 | 64.2 | 67.0 | 69.2 | 70.5 | 72.0 | 74.5 | 77.9 | 82.4 | 85.4 | 85.2 | 79.3 |
| 160 | 61.5 | 63.9 | 65.3 | 68.4 | 70.1 | 71.0 | 73.4 | 75.9 | 79.3 | 83.0 | 86.3 | 85.5 | 80.3 |
| 200 | 63.8 | 66.6 | 68.5 | 70.1 | 71.1 | 72.6 | 74.1 | 76.6 | 79.2 | 82.9 | 84.9 | 84.1 | 79.7 |
| 250 | 62.2 | 65.9 | 63.9 | 70.0 | 71.3 | 73.5 | 75.0 | 77.0 | 80.1 | 82.3 | 83.2 | 84.6 | 78.8 |
| 315 | 61.9 | 65.3 | 67.3 | 69.6 | 70.4 | 73.7 | 74.4 | 76.6 | 80.5 | 81.9 | 82.0 | 82.5 | 78.5 |
| 400 | 62.3 | 65.2 | 68.2 | 69.4 | 71.2 | 73.2 | 75.4 | 77.4 | 80.2 | 81.3 | 80.6 | 81.5 | 75.7 |
| 500 | 61.6 | 64.4 | 66.7 | 69.9 | 72.2 | 73.2 | 75.0 | 77.1 | 80.7 | 80.2 | 80.0 | 80.2 | 73.3 |
| 630 | 61.4 | 64.3 | 66.7 | 69.2 | 71.5 | 72.8 | 74.8 | 77.7 | 80.2 | 79.7 | 79.8 | 79.1 | 71.0 |
| 800 | 59.9 | 62.4 | 65.9 | 68.1 | 70.0 | 72.1 | 74.0 | 76.9 | 78.9 | 78.5 | 78.2 | 76.5 | 67.1 |
| 1000 | 57.7 | 62.1 | 65.0 | 67.8 | 69.7 | 71.8 | 73.5 | 76.1 | 77.5 | 76.5 | 74.2 | 65.2 | |
| 1250 | 56.2 | 61.2 | 64.2 | 67.1 | 69.3 | 71.8 | 73.0 | 75.1 | 76.9 | 75.3 | 74.9 | 72.1 | 63.5 |
| 1600 | 54.2 | 60.0 | 62.7 | 65.7 | 68.2 | 70.3 | 72.5 | 74.2 | 75.2 | 73.4 | 72.7 | 69.6 | 60.0 |
| 2000 | 51.0 | 59.5 | 62.0 | 64.0 | 66.9 | 68.3 | 69.9 | 72.3 | 73.2 | 71.2 | 69.5 | 66.5 | 54.9 |
| 2500 | 46.9 | 57.8 | 61.2 | 63.0 | 64.2 | 65.0 | 66.8 | 68.2 | 69.4 | 66.0 | 64.9 | 60.3 | 47.4 |
| 3150 | 39.9 | 51.7 | 55.9 | 60.3 | 62.1 | 61.5 | 62.9 | 63.8 | 64.9 | 60.9 | 58.4 | 52.2 | 36.2 |
| 4000 | 29.5 | 41.7 | 47.9 | 52.7 | 56.5 | 56.3 | 56.8 | 54.9 | 55.9 | 51.3 | 47.2 | 37.7 | 16.7 |
| 5000 | 22.9 | 37.1 | 41.8 | 47.3 | 51.2 | 51.9 | 52.1 | 49.8 | 51.0 | 44.8 | 42.6 | 29.2 | 6.2 |
| 6300 | 7.7 | 24.3 | 32.4 | 38.1 | 41.3 | 42.1 | 42.3 | 41.4 | 39.4 | 32.5 | 26.7 | 11.4 | |
| 10000 | | 4.2 | 15.6 | 22.4 | 24.9 | 26.2 | 26.1 | 25.0 | 21.8 | 13.8 | 4.1 | | |
| 12500 | | | | 1.9 | 4.1 | 4.1 | 3.4 | 1.7 | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.2 | 75.7 | 78.1 | 80.2 | 82.1 | 83.9 | 85.5 | 87.8 | 90.6 | 92.4 | 94.4 | 94.1 | 88.9 |
| PNDB | 76.8 | 82.2 | 85.3 | 87.7 | 89.8 | 91.3 | 93.1 | 95.0 | 96.9 | 97.2 | 97.8 | 97.2 | 90.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 346 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

| NO EGA | RDG. NO. | RADIAL (46. M) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWT | HACT | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL | | | | | | | |
|--------|--------------------|----------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| | 50 | 86.1 | 83.9 | 90.2 | 90.5 | 92.3 | 92.9 | 96.0 | 97.5 | 100.7 | 106.0 | 111.2 | 113.1 | 113.9 | 158.7 | | | | | | | | | | | |
| | 63 | 88.0 | 91.0 | 90.0 | 92.3 | 94.6 | 95.5 | 98.6 | 103.3 | 109.1 | 113.5 | 116.5 | 116.0 | 161.3 | | | | | | | | | | | | |
| | 80 | 90.5 | 91.3 | 92.8 | 93.3 | 94.7 | 96.0 | 97.2 | 99.8 | 106.0 | 112.1 | 116.3 | 117.5 | 163.0 | | | | | | | | | | | | |
| | 100 | 91.1 | 91.6 | 93.1 | 93.9 | 95.5 | 97.4 | 98.2 | 100.4 | 103.0 | 109.0 | 116.5 | 119.7 | 164.6 | | | | | | | | | | | | |
| | 125 | 92.9 | 94.0 | 93.7 | 95.5 | 97.4 | 98.2 | 100.4 | 103.0 | 109.0 | 116.5 | 119.7 | 117.7 | 165.9 | | | | | | | | | | | | |
| | 140 | 95.5 | 95.2 | 95.7 | 97.3 | 98.1 | 99.7 | 101.6 | 104.8 | 110.5 | 117.8 | 120.8 | 120.5 | 167.0 | | | | | | | | | | | | |
| | 200 | 99.0 | 100.6 | 100.3 | 100.4 | 101.0 | 101.1 | 102.7 | 105.4 | 110.8 | 117.7 | 120.4 | 120.0 | 166.9 | | | | | | | | | | | | |
| | 250 | 97.9 | 93.7 | 100.7 | 105.7 | 101.3 | 102.9 | 104.0 | 107.0 | 112.2 | 117.2 | 120.2 | 121.4 | 167.3 | | | | | | | | | | | | |
| | 315 | 98.0 | 98.0 | 98.0 | 99.6 | 100.2 | 102.5 | 103.9 | 106.6 | 112.3 | 116.6 | 120.1 | 121.2 | 167.0 | | | | | | | | | | | | |
| | 400 | 99.0 | 99.3 | 100.1 | 100.1 | 101.0 | 102.6 | 104.5 | 107.4 | 112.6 | 116.2 | 120.1 | 119.8 | 166.4 | | | | | | | | | | | | |
| | 500 | 98.7 | 98.4 | 99.7 | 100.5 | 102.1 | 102.4 | 104.6 | 107.7 | 112.7 | 115.3 | 119.0 | 118.2 | 165.3 | | | | | | | | | | | | |
| | 630 | 100.2 | 100.7 | 100.2 | 100.5 | 102.1 | 102.9 | 105.1 | 108.2 | 113.2 | 115.6 | 118.8 | 116.4 | 165.0 | | | | | | | | | | | | |
| | 800 | 102.5 | 102.0 | 101.8 | 100.6 | 100.9 | 102.8 | 104.9 | 108.3 | 112.3 | 115.9 | 116.6 | 114.7 | 164.1 | | | | | | | | | | | | |
| | 1000 | 103.1 | 105.2 | 103.7 | 102.5 | 101.8 | 103.4 | 105.0 | 108.7 | 112.4 | 115.0 | 115.5 | 113.9 | 163.7 | | | | | | | | | | | | |
| | 1250 | 100.5 | 103.8 | 104.4 | 103.9 | 104.0 | 104.1 | 106.0 | 108.6 | 112.4 | 115.0 | 115.2 | 113.1 | 163.6 | | | | | | | | | | | | |
| | 1600 | 99.4 | 101.3 | 101.8 | 103.8 | 105.2 | 105.0 | 106.7 | 108.8 | 111.8 | 115.0 | 113.9 | 112.3 | 163.3 | | | | | | | | | | | | |
| | 2000 | 97.6 | 101.2 | 101.0 | 102.8 | 105.8 | 104.9 | 106.1 | 108.5 | 111.5 | 113.7 | 112.8 | 111.2 | 162.6 | | | | | | | | | | | | |
| | 2500 | 95.8 | 100.3 | 99.7 | 101.4 | 103.5 | 104.6 | 105.4 | 106.9 | 109.7 | 111.9 | 111.0 | 110.1 | 161.2 | | | | | | | | | | | | |
| | 3150 | 93.9 | 98.9 | 99.1 | 101.3 | 103.3 | 103.7 | 105.1 | 106.8 | 109.9 | 110.4 | 110.0 | 109.2 | 160.8 | | | | | | | | | | | | |
| | 4000 | 91.6 | 96.6 | 98.0 | 99.6 | 102.9 | 102.2 | 103.5 | 103.8 | 107.0 | 107.7 | 106.6 | 105.8 | 158.5 | | | | | | | | | | | | |
| | 5000 | 89.4 | 95.2 | 95.6 | 98.4 | 100.4 | 100.3 | 100.9 | 101.9 | 105.5 | 105.7 | 105.7 | 101.8 | 157.0 | | | | | | | | | | | | |
| | 6300 | 88.3 | 94.3 | 95.7 | 98.2 | 100.5 | 99.9 | 100.9 | 102.4 | 104.7 | 104.8 | 104.3 | 101.9 | 156.9 | | | | | | | | | | | | |
| | 8000 | 85.0 | 92.0 | 94.6 | 96.4 | 98.0 | 97.8 | 98.5 | 100.5 | 102.6 | 104.4 | 105.5 | 100.6 | 156.6 | | | | | | | | | | | | |
| | 10000 | 82.0 | 86.2 | 91.6 | 92.7 | 94.0 | 95.1 | 95.3 | 96.9 | 99.8 | 102.1 | 103.4 | 98.2 | 155.1 | | | | | | | | | | | | |
| | 12500 | 80.1 | 86.1 | 90.4 | 90.9 | 93.6 | 93.6 | 93.7 | 94.1 | 98.4 | 102.4 | 102.5 | 98.2 | 156.0 | | | | | | | | | | | | |
| | 16000 | 82.1 | 87.1 | 92.2 | 90.9 | 95.6 | 96.0 | 95.6 | 94.3 | 99.4 | 106.1 | 106.0 | 97.3 | 161.6 | | | | | | | | | | | | |
| | OVERALL CALCULATED | | | | | | | | | | | | | | 111.1 | 112.9 | 113.1 | 113.7 | 115.2 | 115.7 | 117.2 | 119.7 | 124.0 | 128.0 | 130.5 | 128.4 |
| | PNDB | | | | | | | | | | | | | | 121.0 | 124.5 | 126.0 | 127.8 | 128.2 | 129.6 | 131.6 | 135.2 | 137.6 | 138.4 | 137.6 | 133.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 347 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) (0. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0.) (0. 0.) (0. 0.) (0. 0.)

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | MFA
(1. RPM) | MFK
(1. RPM) | MFD
(7500. RPM) | AIRFLOW RATIO
WF/WM 5.50 | VEHICLE
CONFIG | LOC
DATE 06-02-76 | RUN
CONFGHIGHFLW | TAPE
X03470 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | SIZE |
|--------------------|----------------------------------|-----------------|-----------------|--------------------|-----------------------------|-------------------|----------------------|---------------------|----------------|-------------------------|---|-------|------|-----|------|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 58.0 | 62.3 | 64.6 | 65.7 | 67.9 | 68.7 | 71.7 | 72.7 | 75.1 | 79.4 | 83.0 | 82.7 | 80.0 | 0. | |
| 63 | 59.7 | 64.3 | 66.4 | 67.5 | 70.2 | 71.2 | 72.5 | 73.7 | 77.7 | 82.4 | 85.3 | 86.0 | 82.0 | 0. | |
| 80 | 62.2 | 64.6 | 67.2 | 68.4 | 70.2 | 71.7 | 72.7 | 74.9 | 80.4 | 85.4 | 88.0 | 86.9 | 82.1 | 0. | |
| 100 | 62.7 | 64.8 | 67.4 | 68.9 | 71.0 | 73.0 | 73.7 | 76.2 | 81.7 | 87.9 | 89.7 | 88.1 | 82.7 | 0. | |
| 125 | 64.4 | 67.0 | 69.5 | 70.5 | 72.7 | 73.7 | 75.7 | 78.0 | 83.2 | 89.6 | 90.9 | 88.7 | 83.1 | 0. | |
| 150 | 66.7 | 68.2 | 69.8 | 72.1 | 73.4 | 75.1 | 76.9 | 79.6 | 84.6 | 90.7 | 92.0 | 89.3 | 83.8 | 0. | |
| 200 | 70.1 | 73.3 | 76.2 | 75.1 | 76.1 | 76.3 | 77.8 | 80.1 | 84.7 | 90.4 | 91.4 | 88.6 | 83.9 | 0. | |
| 250 | 68.7 | 71.2 | 74.4 | 73.2 | 74.9 | 77.4 | 78.7 | 80.9 | 85.8 | 89.8 | 91.0 | 89.6 | 83.8 | 0. | |
| 315 | 68.6 | 70.3 | 71.5 | 73.9 | 74.9 | 77.4 | 78.9 | 81.4 | 85.7 | 88.0 | 90.5 | 89.0 | 82.8 | 0. | |
| 400 | 69.0 | 71.2 | 73.2 | 74.1 | 75.4 | 77.2 | 78.9 | 81.4 | 85.5 | 86.7 | 88.5 | 84.7 | 75.6 | 0. | |
| 500 | 68.1 | 69.9 | 72.5 | 74.1 | 76.2 | 76.7 | 78.7 | 81.4 | 85.5 | 86.4 | 87.5 | 82.1 | 72.5 | 0. | |
| 630 | 68.9 | 71.6 | 72.5 | 73.7 | 75.8 | 76.8 | 78.8 | 81.4 | 85.5 | 86.4 | 87.5 | 82.1 | 72.5 | 0. | |
| 800 | 70.4 | 72.1 | 73.4 | 73.1 | 74.0 | 76.1 | 78.0 | 80.9 | 83.9 | 86.0 | 84.5 | 79.2 | 68.6 | 0. | |
| 1000 | 69.9 | 74.4 | 74.5 | 74.3 | 74.2 | 76.0 | 77.5 | 80.6 | 83.3 | 84.3 | 82.3 | 77.0 | 66.2 | 0. | |
| 1250 | 66.0 | 71.9 | 74.2 | 74.8 | 75.5 | 75.8 | 77.5 | 79.6 | 82.2 | 83.1 | 80.6 | 74.4 | 63.5 | 0. | |
| 1600 | 63.0 | 67.8 | 70.2 | 73.5 | 75.5 | 75.6 | 77.0 | 78.5 | 80.2 | 81.4 | 77.4 | 71.1 | 59.5 | 0. | |
| 2000 | 58.8 | 65.7 | 67.7 | 70.8 | 74.7 | 74.0 | 74.9 | 76.6 | 78.2 | 78.2 | 74.0 | 67.0 | 54.4 | 0. | |
| 2500 | 53.7 | 62.1 | 63.9 | 67.2 | 70.2 | 71.5 | 72.7 | 73.9 | 73.6 | 68.9 | 61.5 | 46.9 | 35.9 | 0. | |
| 3150 | 46.4 | 56.2 | 59.4 | 63.5 | 66.6 | 67.3 | 68.4 | 69.0 | 70.2 | 67.6 | 62.4 | 53.7 | 35.9 | 0. | |
| 4000 | 36.0 | 47.2 | 52.4 | 56.4 | 61.0 | 60.8 | 61.6 | 60.6 | 61.4 | 58.3 | 51.0 | 39.7 | 16.4 | 0. | |
| 5000 | 29.1 | 41.8 | 46.6 | 52.0 | 55.5 | 55.9 | 56.0 | 55.5 | 57.5 | 52.3 | 43.4 | 29.7 | 5.7 | 0. | |
| 6300 | 14.2 | 29.5 | 36.7 | 42.6 | 46.8 | 46.9 | 47.3 | 46.9 | 45.6 | 40.0 | 30.2 | 21.9 | | 0. | |
| 8000 | | 9.7 | 20.1 | 26.7 | 30.9 | 31.5 | 31.4 | 30.8 | 28.1 | 22.1 | 10.4 | | | 0. | |
| 10000 | | | | 3.2 | 8.1 | 10.3 | 9.4 | 7.4 | 3.8 | | | | | 0. | |
| 12500 | | | | | | | | | | | | | | 0. | |
| 16000 | | | | | | | | | | | | | | 0. | |
| PN08 | 79.4 | 82.4 | 84.0 | 85.3 | 86.8 | 87.9 | 89.5 | 91.8 | 95.8 | 99.4 | 100.7 | 98.4 | 92.7 | 0. | |
| OVERALL CALCULATED | 84.7 | 89.0 | 91.0 | 93.3 | 95.8 | 96.2 | 97.5 | 99.3 | 102.1 | 104.2 | 104.7 | 101.5 | 94.3 | 0. | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 347 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-SIZE (513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 12.4
 F. 70 PERCENT REL. HUM. DAY - JENOTS)

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

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL
 FREQ. (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.)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 63 | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | |
| 100 | RADIAL 40. FT. | 82.9 | 92.2 | 89.9 | 91.5 | 93.0 | 93.2 | 94.3 | 95.0 | 96.2 | 96.5 | 100.9 | 100.9 | 103.7 | 138.3 |
| 125 | (12. M) | 82.3 | 86.1 | 87.9 | 90.4 | 92.5 | 93.6 | 94.5 | 95.2 | 94.1 | 94.2 | 102.9 | 104.3 | 105.1 | 139.3 |
| 160 | VEHICLE CFLL41 | 81.0 | 85.2 | 88.4 | 88.5 | 89.0 | 89.4 | 90.0 | 90.0 | 92.2 | 92.2 | 99.5 | 103.9 | 105.4 | 140.3 |
| 200 | CONFIG NC42 | 85.0 | 85.3 | 86.3 | 88.1 | 89.7 | 90.8 | 92.2 | 94.3 | 97.5 | 102.1 | 106.3 | 109.3 | 111.5 | 143.6 |
| 250 | LOC C41 ANECHO CH | 83.6 | 87.1 | 88.3 | 88.6 | 90.0 | 91.8 | 94.5 | 95.9 | 98.8 | 104.2 | 110.4 | 112.3 | 112.8 | 146.2 |
| 315 | DATE 06-02-76 | 85.9 | 89.7 | 88.2 | 90.2 | 92.8 | 93.9 | 95.1 | 97.2 | 101.2 | 107.5 | 113.0 | 114.9 | 115.2 | 148.7 |
| 400 | RUN CONF3HIGHFLW | 86.2 | 89.7 | 91.2 | 91.8 | 93.3 | 94.2 | 95.6 | 98.3 | 103.5 | 110.8 | 116.5 | 116.9 | 115.5 | 151.0 |
| 500 | TAPE X03480 | 89.0 | 91.6 | 92.1 | 93.4 | 94.8 | 96.4 | 98.8 | 101.4 | 107.4 | 114.7 | 118.9 | 118.8 | 116.6 | 152.2 |
| 630 | BAR 29.4 HG | 93.1 | 93.4 | 94.2 | 95.4 | 96.3 | 98.2 | 100.0 | 102.9 | 108.9 | 116.0 | 120.7 | 119.6 | 117.6 | 153.4 |
| 800 | (99347. N/M2) | 96.7 | 98.2 | 98.0 | 98.8 | 99.1 | 99.5 | 101.6 | 104.0 | 108.7 | 116.3 | 121.5 | 119.4 | 117.5 | 154.7 |
| 1000 | TANB 66. DEG F | 95.8 | 98.6 | 99.6 | 99.1 | 100.5 | 102.1 | 103.2 | 105.6 | 110.6 | 115.9 | 121.1 | 120.8 | 117.6 | 155.1 |
| 1250 | (292. DEG K) | 95.9 | 97.4 | 97.2 | 97.7 | 99.3 | 101.4 | 102.6 | 105.5 | 111.2 | 115.5 | 121.7 | 120.1 | 115.9 | 155.4 |
| 1600 | THWT 63. DEG F | 100.4 | 99.0 | 99.2 | 98.8 | 99.6 | 101.2 | 103.6 | 106.8 | 111.5 | 115.1 | 121.3 | 117.9 | 113.0 | 154.5 |
| 2000 | (290. DEG K) | 101.8 | 101.3 | 101.3 | 100.9 | 101.0 | 101.6 | 103.5 | 106.4 | 111.8 | 114.9 | 119.9 | 116.0 | 111.1 | 153.6 |
| 2500 | HACT13.77 GM/M3 | 100.7 | 101.5 | 102.3 | 102.3 | 102.4 | 102.5 | 104.4 | 107.6 | 112.3 | 115.4 | 118.8 | 114.5 | 110.3 | 153.2 |
| 3150 | (.01377 KG/M3) | 98.5 | 99.6 | 100.6 | 101.4 | 102.5 | 103.3 | 104.2 | 107.4 | 111.6 | 115.4 | 116.9 | 113.0 | 108.1 | 152.3 |
| 4000 | FREQ. SHIFT | 98.1 | 99.4 | 100.2 | 101.5 | 102.3 | 103.9 | 104.6 | 107.7 | 110.5 | 114.6 | 116.0 | 111.9 | 107.2 | 151.6 |
| 5000 | JET O | 97.2 | 100.0 | 100.3 | 100.8 | 102.6 | 104.3 | 105.9 | 107.3 | 110.8 | 113.7 | 114.8 | 111.2 | 107.5 | 151.2 |
| 6300 | DIAMETER RATIO | 97.0 | 99.1 | 99.6 | 100.9 | 102.7 | 104.3 | 105.7 | 107.9 | 110.1 | 113.2 | 113.9 | 109.5 | 106.1 | 150.8 |
| 8000 | DF/DM 1 | 95.4 | 99.5 | 99.3 | 101.1 | 103.1 | 103.0 | 105.1 | 107.6 | 110.1 | 111.7 | 111.9 | 108.5 | 106.0 | 150.1 |
| 12500 | | 93.0 | 97.3 | 98.6 | 100.1 | 102.2 | 102.5 | 103.6 | 105.6 | 107.9 | 109.6 | 110.0 | 106.8 | 104.0 | 148.8 |
| 16000 | | 91.6 | 96.3 | 97.0 | 99.2 | 101.0 | 101.6 | 103.0 | 104.2 | 107.2 | 107.7 | 108.6 | 105.1 | 102.8 | 148.3 |
| 20000 | | 88.7 | 93.0 | 94.9 | 96.5 | 99.8 | 99.1 | 100.9 | 101.0 | 103.6 | 104.4 | 104.2 | 100.4 | 100.1 | 146.1 |
| 25000 | | 85.8 | 91.3 | 92.2 | 93.7 | 95.7 | 95.9 | 96.5 | 97.5 | 101.1 | 101.8 | 103.1 | 96.9 | 96.5 | 144.8 |
| 31500 | | 83.8 | 88.8 | 90.2 | 92.2 | 93.9 | 93.9 | 93.9 | 95.9 | 98.2 | 99.0 | 100.5 | 96.3 | 93.8 | 144.6 |
| 40000 | | 79.6 | 84.1 | 87.2 | 88.3 | 89.3 | 88.9 | 89.6 | 92.3 | 93.9 | 98.0 | 97.3 | 91.7 | 89.0 | 143.5 |
| 50000 | | 73.8 | 78.4 | 82.1 | 82.7 | 82.0 | 83.1 | 83.3 | 86.7 | 88.1 | 92.3 | 93.4 | 85.7 | 82.1 | 143.5 |
| 63000 | | 69.2 | 72.6 | 77.6 | 76.6 | 75.9 | 76.6 | 77.2 | 79.4 | 83.1 | 87.6 | 90.5 | 79.7 | 76.0 | 143.2 |
| 80000 | | 66.0 | 69.0 | 75.3 | 72.5 | 71.2 | 72.4 | 72.2 | 75.0 | 78.3 | 85.2 | 86.8 | 72.7 | 74.3 | 151.0 |
| | OVERALL MEASURED | | | | | | | | | | | | | | |
| | OVERALL CALCULATED | 109.5 | 110.9 | 111.5 | 112.2 | 113.5 | 114.5 | 115.9 | 118.4 | 122.4 | 126.7 | 131.0 | 129.3 | 126.8 | 165.8 |
| | PNDB | 122.7 | 123.9 | 124.5 | 124.8 | 125.6 | 126.6 | 128.0 | 130.8 | 135.2 | 139.0 | 142.7 | 140.1 | 136.8 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **348** ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-109cm²(16.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM., DAY - JENOTS) | | | | | | | | | | | |
|--------------------|--|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | | |
| SD6. NO. | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| 83 | 89.2 | 93.0 | 91.5 | 93.6 | 96.1 | 97.3 | 98.4 | 103.6 | 104.5 | 110.8 | 116.3 | 118.2 |
| 80 | 91.5 | 93.0 | 94.5 | 95.1 | 96.5 | 97.5 | 98.9 | 101.6 | 106.8 | 114.1 | 119.8 | 120.3 |
| 100 | 92.3 | 92.9 | 94.4 | 95.7 | 96.5 | 98.4 | 100.5 | 102.4 | 106.1 | 116.7 | 121.2 | 119.1 |
| 125 | 93.9 | 95.0 | 95.5 | 96.8 | 98.1 | 99.7 | 102.1 | 104.8 | 110.7 | 118.0 | 122.3 | 120.0 |
| VEHICLE | 160 | 96.5 | 96.7 | 97.5 | 98.8 | 99.6 | 101.5 | 103.4 | 106.3 | 112.2 | 119.3 | 124.0 |
| CONFIG | 200 | 100.0 | 101.6 | 101.3 | 102.1 | 102.5 | 102.8 | 103.0 | 103.4 | 103.7 | 104.0 | 104.3 |
| LOC C41 ANECH CH | 250 | 99.1 | 101.9 | 102.9 | 102.5 | 103.8 | 105.4 | 106.5 | 109.0 | 113.9 | 119.2 | 124.1 |
| DATE 06-02-76 | 315 | 99.2 | 100.8 | 100.5 | 101.1 | 102.7 | 104.8 | 105.9 | 108.8 | 114.5 | 116.9 | 125.1 |
| RUN CONF3HIGHFL* | 400 | 103.8 | 102.3 | 102.6 | 102.1 | 103.0 | 104.6 | 107.0 | 110.1 | 114.8 | 116.4 | 124.6 |
| TAPE X0348C | 500 | 105.2 | 104.7 | 104.7 | 104.2 | 104.3 | 104.9 | 106.8 | 109.7 | 115.2 | 118.3 | 123.2 |
| BAR 29.4 HG | 630 | 104.2 | 104.9 | 105.7 | 105.7 | 105.8 | 105.9 | 107.8 | 111.0 | 115.7 | 118.8 | 122.3 |
| (99347. N/M2) | 800 | 102.0 | 103.0 | 104.1 | 104.8 | 105.9 | 106.8 | 107.7 | 110.8 | 115.1 | 118.9 | 120.3 |
| TAMB 66. DEG F | 1000 | 101.6 | 102.9 | 103.7 | 105.0 | 105.8 | 107.4 | 108.0 | 111.2 | 113.9 | 118.0 | 119.5 |
| (292. DEG K) | 1250 | 100.8 | 103.6 | 103.9 | 104.4 | 106.2 | 107.8 | 109.5 | 110.9 | 114.4 | 117.2 | 118.4 |
| TWET 63. DEG F | 1600 | 100.7 | 102.8 | 103.3 | 104.6 | 106.4 | 108.0 | 109.4 | 111.6 | 113.8 | 117.0 | 117.6 |
| (290. DEG K) | 2000 | 99.3 | 103.4 | 103.3 | 105.0 | 107.1 | 108.9 | 109.1 | 111.5 | 114.0 | 115.7 | 115.8 |
| WACT13.77 GM/M3 | 2500 | 97.3 | 101.5 | 102.9 | 104.4 | 106.4 | 108.8 | 107.8 | 109.9 | 112.2 | 113.8 | 114.2 |
| (.01377 KG/M3) | 3150 | 96.4 | 101.2 | 101.8 | 104.0 | 105.8 | 106.4 | 107.9 | 109.0 | 112.1 | 112.6 | 113.4 |
| FREQ. SHFT 7 | 4000 | 94.3 | 98.6 | 100.6 | 102.1 | 105.3 | 104.7 | 106.4 | 106.5 | 109.2 | 109.9 | 109.8 |
| JET | 5000 | 92.6 | 98.1 | 99.0 | 100.6 | 102.5 | 102.8 | 103.3 | 104.3 | 106.0 | 107.6 | 109.9 |
| DIAMETER RATIO | 6300 | 92.2 | 97.2 | 98.6 | 100.6 | 102.4 | 102.3 | 102.3 | 104.3 | 106.6 | 108.6 | 109.9 |
| DF/DH 5.50 | 8000 | 90.4 | 94.9 | 98.0 | 99.0 | 100.1 | 99.6 | 100.4 | 103.1 | 104.7 | 108.8 | 108.1 |
| | 10000 | 87.7 | 92.2 | 95.9 | 96.5 | 95.9 | 96.9 | 97.2 | 100.5 | 101.9 | 106.1 | 107.2 |
| | 12500 | 87.5 | 90.9 | 95.9 | 94.9 | 94.2 | 94.9 | 95.5 | 97.7 | 101.6 | 105.9 | 108.7 |
| | 16000 | 90.6 | 93.6 | 99.9 | 97.1 | 95.8 | 97.0 | 96.8 | 99.6 | 102.9 | 109.8 | 111.4 |
| OVERALL CALCULATED | 113.4 | 114.7 | 115.4 | 116.2 | 117.5 | 118.3 | 119.8 | 122.1 | 126.1 | 130.3 | 134.4 | 132.6 |
| PNDR | 122.9 | 126.3 | 127.1 | 128.5 | 130.1 | 130.8 | 132.1 | 136.0 | 137.3 | 139.9 | 142.1 | 139.5 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION *3* TEST POINT *348* ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | |
|--------------------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN)S) | | | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. |
| | | (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.) |
| FREQ. | NO EGA | 58.7 | 63.8 | 66.1 | 67.2 | 68.9 | 70.9 | 73.4 | 74.4 | 76.6 | 80.9 | 85.5 | 85.2 | 82.3 | | | |
| | 80 | 61.0 | 66.3 | 65.9 | 68.7 | 71.7 | 73.0 | 74.0 | 75.7 | 78.9 | 84.2 | 88.0 | 87.7 | 84.5 | | | |
| | 100 | 63.2 | 66.3 | 68.9 | 70.2 | 72.2 | 73.2 | 74.4 | 76.7 | 81.2 | 87.4 | 91.5 | 89.6 | 84.6 | | | |
| | 125 | 65.4 | 68.0 | 69.7 | 71.7 | 73.5 | 73.2 | 74.0 | 76.0 | 82.4 | 89.9 | 92.7 | 90.3 | 84.7 | | | |
| | 150 | 67.7 | 69.7 | 71.6 | 73.6 | 74.9 | 76.9 | 78.6 | 81.1 | 86.3 | 92.2 | 95.3 | 91.8 | 85.8 | | | |
| | 200 | 71.1 | 74.3 | 75.2 | 76.8 | 77.6 | 78.1 | 80.1 | 82.1 | 86.0 | 92.4 | 95.9 | 91.3 | 85.4 | | | |
| | 250 | 69.9 | 76.4 | 76.6 | 77.0 | 76.8 | 80.5 | 81.5 | 83.5 | 87.6 | 91.8 | 95.2 | 92.4 | 85.0 | | | |
| | 315 | 69.7 | 73.0 | 74.0 | 75.4 | 77.4 | 79.7 | 80.2 | 83.1 | 86.0 | 91.1 | 95.5 | 91.3 | 82.8 | | | |
| | 400 | 73.8 | 74.2 | 75.7 | 76.1 | 77.4 | 79.2 | 81.4 | 84.1 | 88.0 | 90.3 | 94.6 | 88.5 | 79.0 | | | |
| | 500 | 74.6 | 76.1 | 77.5 | 77.9 | 78.5 | 79.2 | 81.0 | 83.4 | 88.0 | 89.7 | 92.7 | 85.9 | 76.1 | | | |
| | 630 | 72.9 | 75.8 | 76.0 | 78.9 | 79.5 | 79.8 | 81.5 | 84.2 | 88.0 | 89.7 | 91.1 | 83.6 | 74.0 | | | |
| | 800 | 69.9 | 73.1 | 75.7 | 77.4 | 79.0 | 80.1 | 80.8 | 83.4 | 86.7 | 89.0 | 88.2 | 81.0 | 70.1 | | | |
| | 1000 | 68.4 | 72.1 | 74.5 | 76.8 | 78.2 | 80.0 | 80.5 | 83.1 | 84.8 | 87.3 | 86.3 | 78.5 | 67.2 | | | |
| | 1250 | 66.2 | 71.7 | 73.7 | 75.3 | 77.8 | 79.6 | 81.0 | 81.8 | 84.2 | 85.3 | 83.9 | 76.1 | 65.0 | | | |
| | 1600 | 64.2 | 69.2 | 71.7 | 74.2 | 76.7 | 78.6 | 79.7 | 81.2 | 82.2 | 83.4 | 81.2 | 72.1 | 60.0 | | | |
| | 2000 | 60.5 | 68.0 | 70.0 | 73.1 | 75.9 | 76.0 | 77.9 | 79.6 | 80.7 | 80.2 | 77.0 | 68.2 | 55.7 | | | |
| | 2500 | 55.1 | 63.3 | 67.2 | 70.2 | 73.1 | 73.8 | 74.5 | 75.7 | 76.4 | 75.6 | 72.1 | 62.5 | 47.6 | | | |
| | 3150 | 48.9 | 58.4 | 62.2 | 66.2 | 69.1 | 70.0 | 71.1 | 71.2 | 72.4 | 69.6 | 65.9 | 54.4 | 36.7 | | | |
| | 4000 | 38.7 | 49.1 | 54.8 | 58.9 | 63.5 | 63.2 | 64.6 | 63.3 | 63.6 | 60.5 | 56.2 | 39.9 | 19.1 | | | |
| | 5000 | 32.3 | 44.8 | 50.0 | 54.2 | 57.7 | 58.6 | 58.4 | 57.9 | 58.9 | 55.2 | 49.6 | 31.6 | 7.8 | | | |
| | 6300 | 18.1 | 32.6 | 38.6 | 45.0 | 48.7 | 49.3 | 48.7 | 48.8 | 47.5 | 42.6 | 34.8 | 14.8 | | | | |
| | 8000 | | 12.5 | 23.5 | 29.3 | 33.0 | 33.2 | 33.4 | 30.2 | 26.4 | 12.9 | | | | | | |
| | 10000 | | | 7.0 | 10.0 | 12.2 | 11.3 | 11.0 | 5.9 | | | | | | | | |
| | 12500 | | | | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 81.6 | 84.5 | 86.3 | 87.7 | 89.2 | 90.5 | 92.0 | 94.1 | 97.8 | 101.6 | 104.5 | 100.7 | 94.4 | | | |
| PND8 | | 87.4 | 90.9 | 93.1 | 95.5 | 97.8 | 98.8 | 100.1 | 101.9 | 104.3 | 106.5 | 108.7 | 103.7 | 95.7 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 348 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 26 HR. 12.5

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|-----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| RADIAL (12. M) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | SHIFT | JET | DIAMETER | DF/DM |
| 100 | 63 | 77.9 | 86.7 | 84.4 | 85.5 | 87.5 | 87.4 | 88.3 | 88.5 | 88.9 | 91.5 | 94.9 | 94.4 | 96.7 | 132.1 |
| 125 | 80 | 77.5 | 80.9 | 82.6 | 84.5 | 86.2 | 87.6 | 88.7 | 88.9 | 87.9 | 87.7 | 95.9 | 97.3 | 97.9 | 132.6 |
| 160 | CELL41 | 80.5 | 80.3 | 81.8 | 84.1 | 85.2 | 85.5 | 87.4 | 89.1 | 92.8 | 96.9 | 100.3 | 104.0 | 104.5 | 134.2 |
| 200 | NC42 | 80.5 | 82.6 | 83.6 | 83.9 | 84.7 | 86.6 | 87.7 | 90.9 | 93.8 | 98.9 | 103.9 | 105.5 | 105.6 | 137.7 |
| 250 | C41 ANECH CH | 81.4 | 85.2 | 83.9 | 86.0 | 87.6 | 88.7 | 90.3 | 93.0 | 96.7 | 101.8 | 105.7 | 109.1 | 108.2 | 139.6 |
| 315 | 06-02-76 | 83.7 | 85.2 | 86.5 | 87.0 | 87.8 | 89.7 | 91.8 | 94.2 | 98.7 | 105.8 | 109.2 | 110.9 | 109.0 | 142.4 |
| 400 | CONFVELDEPN | 85.0 | 85.3 | 87.0 | 87.3 | 88.2 | 91.3 | 92.4 | 95.3 | 100.3 | 108.1 | 111.1 | 112.7 | 110.5 | 144.7 |
| 500 | X31070 | 86.1 | 87.1 | 87.4 | 88.9 | 90.3 | 92.4 | 94.3 | 96.9 | 101.6 | 108.7 | 112.4 | 113.6 | 111.1 | 146.6 |
| 630 | 29.4 HG | 88.1 | 88.7 | 89.2 | 90.7 | 91.5 | 94.2 | 95.3 | 98.9 | 103.4 | 110.0 | 113.2 | 114.1 | 112.4 | 147.5 |
| 800 | (99347. N/742) | 90.7 | 91.2 | 92.2 | 92.3 | 92.6 | 94.7 | 96.4 | 99.5 | 103.7 | 109.6 | 112.3 | 113.2 | 111.7 | 148.5 |
| 1000 | 63. DEG F | 90.0 | 91.3 | 92.6 | 93.1 | 93.2 | 95.8 | 96.7 | 100.6 | 105.1 | 109.1 | 111.4 | 113.3 | 111.1 | 147.8 |
| 1250 | (290. DEG K) | 90.4 | 91.4 | 91.2 | 92.0 | 93.1 | 96.4 | 97.3 | 100.5 | 105.2 | 108.0 | 111.0 | 112.1 | 110.7 | 147.6 |
| 1600 | 59. DEG F | 90.7 | 91.7 | 92.5 | 93.8 | 93.1 | 96.0 | 98.3 | 101.3 | 105.5 | 109.1 | 109.8 | 111.4 | 108.5 | 147.0 |
| 2000 | (288. DEG K) | 90.3 | 91.1 | 91.8 | 93.4 | 94.5 | 95.8 | 98.4 | 102.1 | 106.3 | 108.1 | 109.8 | 109.8 | 105.8 | 146.1 |
| 2500 | HACT11-86 GM/M3 | 90.5 | 91.8 | 92.3 | 93.1 | 94.4 | 95.8 | 98.4 | 102.1 | 106.3 | 108.1 | 109.8 | 109.8 | 105.8 | 146.1 |
| 3150 | (.01186 KG/M3) | 90.3 | 91.3 | 91.6 | 92.4 | 92.9 | 96.1 | 97.9 | 101.6 | 105.6 | 107.9 | 107.9 | 107.5 | 103.8 | 145.0 |
| 4000 | FREQ. SHIFT | 90.1 | 91.2 | 91.7 | 93.2 | 93.3 | 96.4 | 98.3 | 101.7 | 105.2 | 106.8 | 108.0 | 106.7 | 103.9 | 144.7 |
| 5000 | JET | 89.7 | 93.3 | 93.3 | 93.6 | 94.4 | 97.0 | 98.7 | 101.6 | 105.3 | 106.7 | 106.9 | 106.3 | 104.3 | 144.6 |
| 6300 | DIAMETER RATIO | 90.0 | 95.3 | 93.4 | 93.9 | 95.0 | 97.1 | 99.0 | 101.6 | 104.1 | 106.8 | 106.2 | 106.1 | 104.6 | 144.6 |
| 8000 | DF/DM 1 | 90.2 | 96.0 | 94.9 | 95.1 | 95.4 | 96.3 | 97.9 | 101.6 | 103.9 | 105.0 | 105.2 | 105.8 | 104.0 | 144.3 |
| 10000 | | 88.3 | 94.8 | 94.2 | 94.9 | 95.2 | 95.8 | 97.4 | 99.4 | 101.7 | 102.9 | 103.5 | 103.6 | 103.1 | 143.1 |
| 12500 | | 86.4 | 92.7 | 93.1 | 94.5 | 95.3 | 95.9 | 96.6 | 98.5 | 100.6 | 100.4 | 101.7 | 102.0 | 101.7 | 142.5 |
| 16000 | | 82.9 | 88.5 | 89.8 | 91.2 | 93.7 | 94.1 | 95.3 | 94.7 | 97.1 | 97.9 | 98.0 | 97.3 | 98.0 | 140.6 |
| 20000 | | 79.2 | 86.0 | 85.7 | 88.0 | 89.7 | 90.7 | 92.4 | 91.7 | 94.9 | 94.3 | 96.1 | 93.4 | 94.5 | 138.5 |
| 25000 | | 76.3 | 83.4 | 84.6 | 86.8 | 87.8 | 88.3 | 89.3 | 90.5 | 91.9 | 91.5 | 92.7 | 91.7 | 91.4 | 137.6 |
| 31500 | | 70.8 | 78.6 | 80.8 | 82.5 | 83.1 | 84.1 | 84.3 | 86.4 | 87.7 | 88.4 | 88.7 | 86.8 | 87.3 | 135.7 |
| 40000 | | 63.9 | 72.3 | 75.1 | 76.1 | 75.4 | 77.0 | 78.0 | 79.8 | 81.3 | 82.4 | 83.7 | 80.6 | 81.7 | 136.3 |
| 50000 | | 56.6 | 64.6 | 68.6 | 70.0 | 69.5 | 70.4 | 71.3 | 73.2 | 75.5 | 77.4 | 79.0 | 75.1 | 76.1 | 135.7 |
| 63000 | | 49.9 | 57.7 | 63.5 | 63.3 | 66.7 | 64.3 | 65.0 | 66.5 | 69.7 | 72.2 | 74.5 | 67.0 | 70.3 | 140.2 |
| 80000 | | 101.9 | 104.8 | 104.8 | 105.6 | 106.5 | 108.3 | 110.0 | 112.9 | 116.6 | 120.1 | 122.3 | 123.4 | 121.4 | 158.9 |
| OVERALL CALCULATED | | 114.3 | 116.0 | 116.4 | 117.2 | 118.2 | 120.2 | 122.1 | 125.4 | 129.4 | 132.2 | 134.0 | 134.6 | 132.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/07 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-109cm²(16.9in²) SIZE

| RDG. NO. | NO. OF
VEHICLE
CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMP | TWT | HACT | FREQ. | FULL SCALE DATA REDUCTION PROGRAM | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------------|-------|-------|------------------------|-------|-------|-------------------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | FULL SIZE SOUND PRESSURE LEVELS | | | SCALED FROM MODEL DATA | | | ANGLES FROM INLET | | | PROC. DATE | | | | | | | | | | | |
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | | | | | | |
| 50 | 84.1 | 85.9 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 89.9 | 93.0 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | | | | |
| 63 | 84.7 | 84.5 | 87.3 | 89.3 | 90.3 | 91.2 | 93.0 | 95.2 | 97.6 | 102.0 | 109.1 | 112.6 | 114.3 | 112.3 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | | | |
| 80 | 87.0 | 88.5 | 89.8 | 90.3 | 91.2 | 93.0 | 95.2 | 97.6 | 102.0 | 109.1 | 112.6 | 114.3 | 112.3 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | | | |
| 100 | 88.3 | 88.6 | 90.4 | 90.7 | 91.5 | 94.6 | 97.6 | 102.0 | 109.1 | 112.6 | 114.3 | 112.3 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | | | |
| 125 | 89.4 | 90.5 | 90.7 | 92.3 | 93.6 | 95.7 | 97.6 | 102.0 | 109.1 | 112.6 | 114.3 | 112.3 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | 113.9 | | | |
| 160 | 91.5 | 92.0 | 92.5 | 94.0 | 94.9 | 97.5 | 98.6 | 102.3 | 106.7 | 113.3 | 115.5 | 117.5 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | | |
| 200 | 94.0 | 94.6 | 95.6 | 96.6 | 98.1 | 99.7 | 102.9 | 107.1 | 112.9 | 115.6 | 116.5 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | | |
| 250 | 93.4 | 94.7 | 95.9 | 95.6 | 96.5 | 98.2 | 100.0 | 104.0 | 108.4 | 112.5 | 114.7 | 116.6 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | | |
| 315 | 93.7 | 94.8 | 94.5 | 95.3 | 96.4 | 99.2 | 100.7 | 103.8 | 106.5 | 111.4 | 114.3 | 115.5 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | |
| 400 | 94.0 | 95.1 | 95.8 | 96.1 | 96.5 | 99.3 | 101.5 | 104.6 | 108.9 | 112.4 | 113.1 | 114.6 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | |
| 500 | 93.7 | 94.4 | 95.2 | 96.7 | 97.8 | 99.2 | 101.6 | 104.7 | 109.2 | 111.3 | 112.7 | 114.4 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | |
| 630 | 93.9 | 95.2 | 95.7 | 96.5 | 97.8 | 99.2 | 101.8 | 105.5 | 109.7 | 111.6 | 113.3 | 113.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 |
| 800 | 93.7 | 94.8 | 95.0 | 95.8 | 96.4 | 99.5 | 101.4 | 105.1 | 109.0 | 111.4 | 111.3 | 111.0 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 |
| 1000 | 93.6 | 94.7 | 95.2 | 96.7 | 96.8 | 99.9 | 101.6 | 105.2 | 109.7 | 110.3 | 111.5 | 110.1 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 |
| 1250 | 93.3 | 96.8 | 96.9 | 97.1 | 98.0 | 100.6 | 102.2 | 105.1 | 108.9 | 110.2 | 110.4 | 109.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 |
| 1500 | 93.7 | 99.1 | 97.1 | 97.6 | 98.7 | 100.8 | 102.7 | 105.4 | 107.9 | 110.5 | 109.9 | 109.8 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 |
| 2000 | 94.1 | 100.0 | 98.8 | 99.1 | 99.4 | 100.2 | 101.9 | 105.6 | 107.8 | 109.0 | 109.1 | 109.7 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 |
| 2500 | 92.6 | 99.1 | 98.5 | 99.2 | 99.5 | 100.1 | 101.7 | 103.7 | 106.0 | 107.2 | 107.8 | 107.9 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 |
| 3150 | 91.3 | 97.5 | 98.0 | 99.4 | 100.2 | 100.8 | 101.5 | 103.4 | 105.5 | 105.2 | 106.6 | 106.8 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 |
| 4000 | 88.4 | 94.0 | 95.4 | 96.8 | 99.3 | 99.6 | 100.9 | 103.2 | 102.6 | 103.4 | 103.5 | 102.9 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 | 103.5 |
| 5000 | 86.1 | 92.9 | 92.5 | 94.8 | 96.6 | 97.5 | 99.2 | 98.6 | 101.8 | 101.2 | 103.0 | 100.2 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 |
| 6300 | 84.7 | 91.8 | 93.1 | 95.2 | 96.2 | 96.7 | 97.7 | 99.0 | 100.3 | 99.9 | 101.1 | 100.2 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| 8000 | 81.5 | 89.4 | 91.5 | 93.3 | 93.9 | 94.9 | 95.1 | 97.1 | 98.5 | 99.2 | 99.5 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| 10000 | 77.7 | 86.1 | 88.9 | 89.9 | 89.3 | 90.8 | 91.8 | 93.6 | 95.1 | 96.2 | 97.5 | 94.4 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 |
| 12500 | 74.9 | 82.9 | 86.8 | 88.3 | 87.7 | 88.7 | 89.5 | 91.5 | 93.8 | 95.7 | 97.2 | 93.4 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 |
| 16000 | 74.5 | 82.4 | 88.1 | 87.9 | 91.3 | 89.0 | 89.6 | 91.2 | 94.3 | 96.8 | 99.1 | 91.7 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 |
| OVERALL CALCULATED | 105.4 | 108.7 | 108.8 | 109.7 | 110.5 | 112.2 | 113.8 | 116.6 | 120.3 | 123.6 | 125.7 | 126.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 |
| PHDB | 116.7 | 121.6 | 121.7 | 122.9 | 123.8 | 125.0 | 126.2 | 128.4 | 131.2 | 133.0 | 134.2 | 134.5 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 | 133.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION: 3107 TEST POINT: 3107 ACOUSTIC RANGE: 45.7m(150ft.) ARC SIZE: FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|------|------|------|------|------|------|------|------|-------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 56.0 | 59.3 | 61.0 | 62.4 | 63.7 | 65.7 | 68.7 | 69.4 | 71.6 | 75.6 | 79.0 | 78.4 | 75.0 |
| 63 | 58.5 | 61.8 | 64.2 | 65.4 | 66.5 | 67.7 | 69.2 | 71.5 | 74.4 | 78.4 | 80.8 | 82.0 | 77.5 |
| 80 | 58.7 | 61.8 | 64.2 | 65.4 | 66.5 | 67.7 | 69.2 | 71.5 | 74.4 | 78.4 | 80.8 | 82.0 | 77.5 |
| 100 | 59.9 | 61.8 | 64.2 | 65.4 | 66.5 | 67.7 | 69.2 | 71.5 | 74.4 | 78.4 | 80.8 | 82.0 | 77.5 |
| 125 | 60.9 | 63.5 | 64.9 | 67.2 | 69.0 | 71.2 | 73.0 | 75.2 | 79.2 | 85.1 | 87.2 | 86.0 | 79.8 |
| 160 | 62.7 | 64.9 | 66.6 | 68.9 | 70.1 | 72.9 | 73.9 | 77.1 | 80.8 | 86.2 | 87.6 | 86.3 | 80.8 |
| 200 | 65.1 | 67.3 | 69.5 | 70.3 | 71.1 | 73.3 | 74.8 | 77.5 | 81.0 | 85.6 | 86.7 | 85.1 | 79.7 |
| 250 | 64.2 | 67.2 | 69.6 | 71.0 | 71.5 | 74.3 | 75.0 | 78.5 | 82.1 | 85.0 | 85.5 | 84.8 | 78.5 |
| 315 | 64.2 | 67.0 | 68.0 | 69.6 | 71.2 | 74.7 | 75.4 | 78.1 | 82.0 | 83.6 | 84.8 | 83.3 | 77.5 |
| 400 | 64.0 | 67.0 | 68.0 | 70.1 | 70.9 | 73.9 | 75.9 | 78.6 | 82.0 | 84.3 | 83.1 | 82.0 | 74.5 |
| 500 | 63.1 | 65.9 | 68.0 | 70.4 | 72.0 | 73.5 | 75.7 | 78.4 | 82.0 | 82.7 | 82.2 | 80.9 | 72.3 |
| 630 | 62.7 | 66.1 | 68.0 | 69.7 | 71.5 | 73.1 | 75.5 | 78.7 | 82.0 | 82.4 | 82.0 | 78.8 | 69.5 |
| 800 | 61.6 | 64.9 | 66.7 | 68.4 | 69.5 | 72.8 | 74.5 | 77.6 | 80.7 | 81.5 | 79.2 | 75.5 | 65.8 |
| 1000 | 60.4 | 63.9 | 66.0 | 68.6 | 69.2 | 72.5 | 74.2 | 77.1 | 79.5 | 79.5 | 78.3 | 73.2 | 63.9 |
| 1250 | 58.7 | 64.9 | 66.7 | 68.1 | 69.5 | 72.3 | 73.8 | 76.1 | 78.7 | 78.3 | 75.9 | 71.1 | 61.7 |
| 1600 | 57.2 | 65.5 | 65.5 | 67.3 | 69.0 | 71.3 | 73.0 | 75.0 | 76.3 | 77.0 | 73.4 | 68.6 | 58.5 |
| 2000 | 55.3 | 64.5 | 65.5 | 67.1 | 68.2 | 69.3 | 70.7 | 73.6 | 74.5 | 73.5 | 70.3 | 65.5 | 53.7 |
| 2500 | 50.5 | 60.9 | 62.8 | 65.0 | 66.2 | 67.1 | 69.4 | 69.5 | 70.3 | 68.9 | 65.7 | 59.3 | 46.7 |
| 3150 | 43.7 | 54.8 | 58.3 | 61.6 | 63.4 | 64.4 | 64.7 | 65.6 | 65.8 | 62.5 | 59.0 | 51.3 | 35.5 |
| 4000 | 32.8 | 44.6 | 49.8 | 53.6 | 57.4 | 58.1 | 59.0 | 57.0 | 54.0 | 54.0 | 47.9 | 36.9 | 17.1 |
| 5000 | 25.8 | 39.5 | 43.5 | 48.5 | 51.7 | 53.1 | 54.3 | 52.2 | 52.8 | 47.8 | 42.7 | 28.1 | 5.9 |
| 6300 | 10.7 | 27.1 | 34.0 | 39.7 | 42.6 | 43.7 | 44.0 | 43.4 | 41.2 | 35.1 | 27.0 | 10.2 | |
| 8000 | | 7.0 | 17.0 | 23.6 | 26.7 | 28.6 | 28.0 | 27.4 | 24.0 | 16.8 | 4.3 | | |
| 10000 | | | | 0.5 | 3.4 | 6.1 | 5.9 | 4.2 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 74.0 | 77.5 | 79.3 | 80.9 | 82.2 | 84.6 | 84.2 | 88.9 | 92.1 | 95.1 | 95.9 | 94.6 | 88.7 |
| PH88 | 79.0 | 85.5 | 87.2 | 89.1 | 90.5 | 92.3 | 93.9 | 96.2 | 98.3 | 100.0 | 99.6 | 97.3 | 90.2 |

NO EGA
SIDELINE 2400. FT.
(731.52 M)
NFA (1. RPH)
NFK (0. RAD/SEC)
NFD (7500. RPM)
AIRFLOW RATIO
WF/WK 5.50

VEHICLE CELL41
CONFIG NC42
LOC C41 ANECH CH
DATE 06-02-76
RUN CONF3VELDEPN
TAPE X31070
FAN TIP SPEED
FT/SEC

CONFIGURATION
3107

TEST POINT
3107

ACOUSTIC RANGE
731.5m(2400ft.) SIDELINE

SIZE
FULL-.33m(13in)²

ANECHOIC JET NOISE TEST FACILITY RESULTS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (SP, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 12.5

ANGLES FROM INLET IN DEGREES (AND RADIANES)
 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0.
 FREQ. (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)

| RDG. NO. | NO EGA | 40. FT. | 50. | 60. | 70. | 80. | 87.3 | 87.2 | 87.3 | 89.7 | 89.4 | 89.4 | 91.0 | 94.4 | 94.4 | 97.2 |
|--|--------|---------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 76.9 | 86.7 | 84.4 | 85.7 | 86.5 | 87.6 | 87.2 | 87.3 | 89.7 | 89.4 | 89.4 | 91.0 | 94.4 | 94.4 | 97.2 | 132.1 |
| 125 | 76.8 | 80.9 | 82.1 | 82.1 | 82.7 | 83.3 | 84.2 | 84.5 | 90.7 | 87.9 | 87.9 | 86.9 | 95.6 | 97.1 | 97.6 | 132.6 |
| 160 | 77.6 | 79.9 | 82.7 | 83.3 | 83.3 | 84.2 | 84.5 | 84.5 | 90.7 | 87.9 | 87.9 | 86.9 | 95.6 | 97.1 | 97.6 | 134.0 |
| 200 | 80.3 | 80.3 | 81.5 | 83.6 | 84.7 | 85.3 | 86.2 | 86.2 | 89.8 | 92.0 | 95.4 | 99.6 | 103.8 | 104.8 | 104.8 | 137.4 |
| 250 | 79.3 | 81.8 | 83.3 | 83.1 | 83.5 | 85.0 | 86.1 | 86.1 | 90.1 | 93.1 | 98.4 | 103.9 | 105.5 | 106.1 | 106.1 | 139.6 |
| 315 | 81.2 | 84.7 | 83.2 | 85.5 | 88.1 | 88.9 | 90.1 | 91.2 | 95.9 | 101.3 | 106.2 | 108.6 | 108.7 | 108.7 | 108.7 | 142.3 |
| 400 | 83.2 | 84.2 | 86.2 | 86.2 | 88.1 | 89.0 | 89.8 | 92.7 | 97.7 | 103.5 | 109.0 | 109.9 | 109.0 | 109.0 | 109.0 | 143.9 |
| 500 | 84.3 | 84.3 | 86.0 | 86.8 | 88.4 | 90.8 | 91.9 | 93.8 | 99.0 | 105.9 | 110.1 | 111.5 | 109.8 | 109.8 | 109.8 | 145.3 |
| 630 | 85.1 | 86.4 | 87.1 | 88.7 | 90.3 | 91.1 | 93.3 | 95.2 | 100.4 | 106.2 | 111.2 | 112.3 | 110.4 | 110.4 | 110.4 | 146.2 |
| 800 | 86.6 | 87.7 | 88.2 | 89.7 | 91.5 | 93.1 | 95.6 | 97.3 | 103.0 | 107.8 | 110.0 | 110.2 | 109.2 | 109.2 | 109.2 | 146.4 |
| 1000 | 89.0 | 90.0 | 91.0 | 91.5 | 93.1 | 95.6 | 97.3 | 99.9 | 105.3 | 109.9 | 111.5 | 109.3 | 109.3 | 109.3 | 109.3 | 145.6 |
| 1250 | 88.5 | 90.3 | 91.8 | 91.9 | 93.2 | 95.7 | 96.8 | 98.2 | 104.4 | 107.8 | 109.2 | 110.9 | 108.7 | 108.7 | 108.7 | 145.7 |
| 1600 | 89.1 | 90.4 | 92.0 | 92.0 | 93.3 | 95.7 | 96.8 | 98.2 | 104.4 | 107.8 | 109.2 | 110.9 | 108.7 | 108.7 | 108.7 | 145.5 |
| 2000 | 89.7 | 90.7 | 91.2 | 92.5 | 93.8 | 95.0 | 97.6 | 99.5 | 105.2 | 107.8 | 108.5 | 110.2 | 107.7 | 107.7 | 107.7 | 145.5 |
| 2500 | 89.3 | 90.6 | 91.6 | 93.4 | 94.7 | 95.3 | 97.2 | 99.9 | 105.3 | 107.4 | 108.1 | 110.0 | 107.1 | 107.1 | 107.1 | 145.3 |
| 3150 | 89.7 | 91.5 | 92.1 | 92.6 | 94.7 | 95.8 | 97.9 | 100.6 | 105.1 | 107.6 | 108.6 | 109.3 | 106.0 | 106.0 | 106.0 | 145.3 |
| 4000 | 89.3 | 90.8 | 91.3 | 92.6 | 93.4 | 95.6 | 97.7 | 100.9 | 104.8 | 107.2 | 107.6 | 108.0 | 104.8 | 104.8 | 104.8 | 144.7 |
| 5000 | 89.1 | 91.9 | 91.7 | 93.5 | 94.6 | 96.7 | 98.3 | 101.0 | 105.2 | 106.8 | 107.8 | 106.9 | 104.4 | 104.4 | 104.4 | 144.7 |
| 6300 | 89.7 | 93.8 | 93.6 | 94.3 | 95.7 | 97.5 | 99.2 | 100.8 | 104.8 | 106.4 | 107.1 | 107.0 | 105.5 | 105.5 | 105.5 | 144.7 |
| 8000 | 90.5 | 95.6 | 94.1 | 94.9 | 96.2 | 97.6 | 99.5 | 100.6 | 104.4 | 106.5 | 105.9 | 107.1 | 105.1 | 105.1 | 105.1 | 144.8 |
| 10000 | 90.6 | 98.3 | 96.9 | 97.3 | 97.2 | 96.8 | 98.7 | 100.8 | 104.1 | 105.3 | 104.9 | 106.5 | 105.3 | 105.3 | 105.3 | 144.8 |
| 12500 | 89.1 | 97.1 | 96.2 | 96.9 | 98.7 | 97.3 | 98.1 | 99.1 | 102.2 | 102.9 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 143.8 |
| 16000 | 86.6 | 94.1 | 94.3 | 96.5 | 97.8 | 97.1 | 97.6 | 98.0 | 101.6 | 101.6 | 102.2 | 103.5 | 102.4 | 102.4 | 102.4 | 143.6 |
| 20000 | 83.1 | 89.9 | 91.3 | 93.4 | 96.4 | 95.3 | 96.0 | 94.9 | 97.5 | 97.5 | 97.8 | 97.4 | 98.8 | 97.4 | 97.4 | 141.1 |
| 25000 | 79.5 | 87.5 | 87.6 | 89.7 | 91.9 | 92.1 | 92.4 | 91.7 | 95.6 | 95.6 | 95.0 | 95.3 | 94.8 | 94.4 | 94.4 | 139.5 |
| 31500 | 72.3 | 84.8 | 86.3 | 88.2 | 89.7 | 88.9 | 89.9 | 91.2 | 92.5 | 91.9 | 91.8 | 93.4 | 91.9 | 91.9 | 91.9 | 139.5 |
| 40000 | 72.2 | 80.0 | 82.9 | 83.9 | 84.7 | 85.3 | 85.5 | 87.0 | 88.4 | 89.3 | 88.6 | 89.1 | 87.7 | 87.7 | 87.7 | 138.6 |
| 50000 | 66.8 | 73.2 | 76.9 | 78.0 | 77.6 | 78.6 | 78.6 | 80.4 | 82.2 | 83.9 | 84.8 | 84.0 | 82.3 | 82.3 | 82.3 | 137.1 |
| 63000 | 61.2 | 67.0 | 70.9 | 71.0 | 70.5 | 71.5 | 71.8 | 73.8 | 76.1 | 78.2 | 80.0 | 77.4 | 75.9 | 75.9 | 75.9 | 137.3 |
| 80000 | 57.2 | 61.8 | 67.2 | 65.8 | 64.7 | 66.1 | 65.2 | 67.5 | 70.7 | 74.7 | 74.7 | 71.3 | 73.8 | 73.8 | 73.8 | 141.7 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 101.2 105.4 105.2 106.4 107.8 108.4 109.9 111.7 116.2 119.0 121.1 122.3 120.7 | | | | | | | | | | | | | | | | |
| PNDB 113.5 115.9 116.2 117.1 118.6 119.9 121.7 124.2 128.6 131.4 133.0 133.9 131.7 | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3108 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-109cm²(16.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JETNOTS)

| RDG. NO. | NO EGA | FREQ. | PROC. RATE - MONTH 8 DAY 26 HR. 16.7 | | | | | | | | | | | | |
|--------------------|--------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 82.6 | 83.2 | 86.7 | 86.5 | 88.3 | 89.4 | 91.5 | 93.5 | 96.4 | 101.7 | 107.2 | 108.9 | 109.4 | 154.4 | |
| 63 | 84.5 | 88.0 | 86.5 | 88.8 | 91.4 | 92.3 | 93.4 | 94.6 | 99.3 | 104.6 | 109.5 | 112.0 | 112.0 | 157.1 | |
| 80 | 86.5 | 87.5 | 89.5 | 89.6 | 91.4 | 92.3 | 93.2 | 96.1 | 101.0 | 106.9 | 112.3 | 113.3 | 112.3 | 158.7 | |
| 100 | 87.6 | 87.6 | 89.4 | 90.2 | 91.8 | 94.1 | 95.3 | 97.2 | 102.4 | 109.2 | 113.4 | 114.8 | 113.1 | 160.1 | |
| 125 | 88.4 | 89.7 | 90.5 | 92.0 | 93.6 | 94.5 | 96.6 | 98.5 | 103.7 | 109.5 | 114.5 | 115.7 | 113.7 | 161.0 | |
| 160 | 90.0 | 91.0 | 91.5 | 93.0 | 94.9 | 96.0 | 97.9 | 99.8 | 105.5 | 110.3 | 114.5 | 115.5 | 113.7 | 161.2 | |
| 200 | 92.3 | 93.3 | 94.3 | 94.9 | 96.5 | 97.1 | 99.0 | 100.6 | 106.3 | 111.1 | 113.4 | 113.5 | 112.6 | 160.4 | |
| 250 | 91.9 | 93.7 | 95.2 | 95.2 | 96.5 | 98.7 | 99.3 | 101.7 | 107.2 | 110.2 | 112.4 | 114.9 | 112.7 | 160.5 | |
| 315 | 92.5 | 93.8 | 93.5 | 95.3 | 96.7 | 98.0 | 100.2 | 101.6 | 107.8 | 111.1 | 112.6 | 114.2 | 112.0 | 160.3 | |
| 400 | 93.0 | 94.1 | 94.6 | 95.9 | 97.2 | 98.3 | 101.0 | 102.9 | 108.6 | 111.2 | 111.9 | 113.5 | 111.1 | 160.1 | |
| 500 | 92.7 | 93.9 | 95.0 | 96.7 | 98.1 | 98.7 | 100.6 | 103.2 | 108.7 | 110.8 | 111.5 | 113.4 | 110.4 | 160.1 | |
| 630 | 93.1 | 94.9 | 95.5 | 96.0 | 98.1 | 99.2 | 101.3 | 104.0 | 108.5 | 111.1 | 112.0 | 112.7 | 109.4 | 159.5 | |
| 800 | 92.7 | 94.3 | 94.8 | 96.1 | 96.9 | 99.0 | 101.2 | 104.3 | 108.3 | 110.6 | 111.1 | 111.5 | 108.3 | 159.5 | |
| 1000 | 92.6 | 95.4 | 95.2 | 97.0 | 98.0 | 100.2 | 101.8 | 104.5 | 108.7 | 110.3 | 111.2 | 110.4 | 107.9 | 159.5 | |
| 1250 | 93.3 | 97.3 | 97.1 | 97.9 | 99.2 | 101.1 | 102.7 | 106.4 | 108.4 | 110.0 | 110.7 | 110.6 | 109.1 | 159.5 | |
| 1600 | 94.2 | 99.3 | 97.9 | 98.6 | 99.9 | 101.3 | 103.2 | 104.4 | 108.1 | 110.2 | 109.7 | 110.8 | 108.8 | 159.6 | |
| 2000 | 94.6 | 102.2 | 100.8 | 101.3 | 101.1 | 100.7 | 102.6 | 104.8 | 108.1 | 109.2 | 108.9 | 110.5 | 109.2 | 159.5 | |
| 2500 | 93.3 | 101.3 | 100.5 | 101.2 | 103.0 | 101.6 | 102.4 | 103.4 | 106.5 | 107.2 | 107.6 | 109.4 | 107.6 | 158.6 | |
| 3150 | 91.5 | 99.0 | 99.2 | 101.4 | 102.7 | 102.0 | 102.5 | 102.9 | 106.4 | 106.4 | 107.1 | 108.3 | 107.3 | 158.4 | |
| 4000 | 88.7 | 95.5 | 96.8 | 99.0 | 102.0 | 100.8 | 101.6 | 100.4 | 103.1 | 103.4 | 103.0 | 104.4 | 103.0 | 155.9 | |
| 5000 | 84.3 | 94.3 | 94.2 | 96.5 | 98.8 | 99.0 | 99.3 | 98.5 | 102.3 | 101.9 | 102.2 | 101.7 | 101.2 | 154.3 | |
| 6300 | 85.7 | 93.3 | 94.7 | 96.7 | 98.2 | 97.4 | 98.4 | 99.6 | 100.9 | 100.3 | 100.2 | 101.8 | 100.3 | 154.1 | |
| 8000 | 82.9 | 90.8 | 93.7 | 94.7 | 95.5 | 96.0 | 96.3 | 97.8 | 99.1 | 100.0 | 99.3 | 99.9 | 98.4 | 153.4 | |
| 10000 | 80.6 | 87.0 | 90.7 | 91.8 | 91.4 | 92.4 | 92.4 | 94.2 | 96.0 | 97.7 | 98.6 | 97.8 | 96.1 | 151.9 | |
| 12500 | 79.5 | 85.2 | 89.1 | 89.3 | 88.8 | 89.7 | 90.1 | 92.1 | 94.4 | 96.5 | 98.3 | 95.7 | 94.2 | 152.1 | |
| 16000 | 81.8 | 86.4 | 91.8 | 90.4 | 89.4 | 90.7 | 89.9 | 92.2 | 95.3 | 99.3 | 99.4 | 95.9 | 98.4 | 156.6 | |
| OVERALL CALCULATED | | | 104.9 | 109.5 | 109.5 | 110.6 | 112.0 | 112.5 | 113.8 | 115.5 | 119.9 | 122.6 | 124.6 | 125.7 | 124.0 |
| PNDB | | | 116.8 | 122.9 | 123.7 | 124.3 | 125.6 | 125.7 | 126.6 | 127.7 | 131.4 | 132.8 | 133.8 | 134.9 | 133.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/08 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | 70 PERCENT REL. HUM. DAY |
|--|---|--------|--------|--------|--------|--------|--------------------------|
| | 40. | 50. | 60. | 70. | 80. | 90. | |
| FREQ. (C. RAD/SEC) | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) |
| 50 | 54.5 | 58.6 | 61.1 | 61.7 | 63.9 | 65.2 | 67.2 |
| 63 | 56.2 | 61.3 | 60.9 | 64.0 | 67.0 | 68.0 | 69.7 |
| 80 | 58.2 | 60.8 | 63.9 | 64.7 | 66.9 | 68.0 | 71.2 |
| 100 | 59.2 | 60.8 | 63.7 | 65.2 | 67.2 | 69.7 | 72.2 |
| 125 | 59.8 | 62.8 | 64.7 | 67.0 | 69.0 | 70.0 | 73.5 |
| 160 | 61.2 | 63.9 | 65.6 | 67.9 | 70.1 | 71.4 | 74.6 |
| 200 | 63.3 | 66.1 | 68.2 | 69.5 | 71.6 | 72.3 | 74.1 |
| 250 | 62.7 | 66.2 | 68.9 | 69.7 | 71.5 | 73.8 | 74.3 |
| 315 | 62.9 | 66.0 | 67.0 | 69.6 | 71.4 | 73.9 | 74.9 |
| 400 | 63.0 | 66.0 | 67.7 | 69.9 | 71.7 | 72.9 | 75.4 |
| 500 | 62.1 | 65.4 | 67.7 | 70.4 | 72.2 | 73.0 | 74.7 |
| 630 | 61.9 | 65.8 | 67.7 | 69.2 | 71.8 | 73.1 | 75.0 |
| 800 | 60.6 | 64.4 | 66.4 | 68.6 | 70.0 | 72.3 | 74.3 |
| 1000 | 59.4 | 64.6 | 66.0 | 68.8 | 70.5 | 72.8 | 74.2 |
| 1250 | 58.7 | 65.4 | 67.0 | 68.8 | 70.8 | 72.8 | 74.3 |
| 1600 | 57.7 | 65.8 | 66.3 | 68.2 | 70.3 | 71.8 | 73.5 |
| 2000 | 55.8 | 66.8 | 67.5 | 69.4 | 70.0 | 69.8 | 71.5 |
| 2500 | 51.2 | 63.1 | 64.7 | 67.0 | 69.7 | 68.6 | 69.3 |
| 3150 | 43.9 | 56.3 | 59.5 | 63.6 | 65.9 | 65.6 | 65.7 |
| 4000 | 33.0 | 46.0 | 51.3 | 55.8 | 60.1 | 59.4 | 59.7 |
| 5000 | 26.0 | 41.0 | 45.2 | 50.2 | 53.9 | 54.6 | 54.4 |
| 6300 | 11.6 | 28.5 | 35.6 | 41.1 | 44.5 | 44.3 | 44.7 |
| 10000 | | 8.4 | 19.2 | 25.0 | 28.4 | 29.7 | 29.1 |
| 12500 | | | 2.3 | 5.5 | 7.7 | 6.5 | 4.8 |
| 16000 | | | | | | | |
| OVERALL CALCULATED | 72.9 | 77.2 | 78.9 | 80.9 | 82.9 | 84.3 | 85.8 |
| PND | 78.5 | 86.4 | 88.0 | 90.2 | 92.5 | 92.8 | 94.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/08 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 8 DAY 26 HR. 12.4
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0.
 FREQ. (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)(3.15)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|
| 100 | 77.4 | 85.9 | 93.7 | 85.5 | 87.0 | 86.9 | 87.3 | 88.0 | 89.2 | 91.5 | 94.4 | 93.9 | 96.9 | 131.8 | | | | |
| 125 | 77.1 | 79.9 | 61.6 | 84.4 | 86.0 | 87.1 | 87.0 | 88.7 | 87.4 | 87.2 | 95.4 | 96.6 | 97.4 | 132.0 | | | | |
| 160 | 77.6 | 79.7 | 62.7 | 84.0 | 83.9 | 84.0 | 84.0 | 86.0 | 88.4 | 93.5 | 96.9 | 97.9 | 100.4 | 133.5 | | | | |
| 200 | 79.8 | 79.8 | 81.5 | 83.6 | 84.2 | 85.3 | 85.9 | 88.3 | 92.0 | 95.1 | 99.3 | 102.8 | 104.8 | 137.0 | | | | |
| 250 | 79.5 | 82.1 | 83.1 | 83.4 | 84.7 | 86.3 | 88.2 | 90.1 | 93.3 | 97.7 | 102.9 | 104.8 | 105.8 | 139.0 | | | | |
| 315 | 81.2 | 84.4 | 82.7 | 85.5 | 87.8 | 88.4 | 89.3 | 91.5 | 95.7 | 100.3 | 104.7 | 107.9 | 107.9 | 141.4 | | | | |
| 400 | 82.9 | 84.5 | 85.7 | 86.5 | 88.1 | 89.0 | 90.3 | 93.0 | 97.2 | 102.5 | 108.0 | 109.4 | 108.7 | 143.3 | | | | |
| 500 | 83.8 | 84.3 | 85.0 | 86.6 | 88.4 | 90.5 | 91.4 | 93.6 | 98.5 | 104.6 | 109.1 | 110.7 | 109.3 | 143.3 | | | | |
| 630 | 84.9 | 85.9 | 86.4 | 88.4 | 90.0 | 91.1 | 92.5 | 94.9 | 99.9 | 105.0 | 108.9 | 110.3 | 109.1 | 144.5 | | | | |
| 800 | 86.1 | 87.4 | 87.7 | 89.4 | 91.3 | 92.2 | 94.0 | 96.4 | 101.4 | 105.7 | 108.7 | 109.4 | 108.7 | 144.5 | | | | |
| 1000 | 88.2 | 89.2 | 90.0 | 90.8 | 92.4 | 93.5 | 94.9 | 97.3 | 102.0 | 106.1 | 107.5 | 106.9 | 107.5 | 144.5 | | | | |
| 1250 | 88.3 | 89.1 | 90.8 | 91.4 | 92.7 | 94.3 | 95.4 | 98.6 | 103.6 | 106.1 | 106.9 | 107.8 | 107.1 | 143.8 | | | | |
| 1600 | 88.6 | 89.9 | 89.4 | 91.7 | 92.8 | 93.4 | 96.3 | 98.7 | 104.2 | 106.3 | 107.3 | 107.2 | 106.5 | 143.8 | | | | |
| 2000 | 88.9 | 90.5 | 90.7 | 92.0 | 93.6 | 95.0 | 96.8 | 99.5 | 104.2 | 106.3 | 107.3 | 107.2 | 106.5 | 144.0 | | | | |
| 2500 | 89.0 | 90.3 | 90.8 | 92.6 | 94.7 | 95.1 | 96.7 | 99.9 | 104.8 | 106.2 | 106.9 | 106.8 | 106.6 | 144.0 | | | | |
| 3150 | 89.7 | 91.5 | 91.6 | 92.8 | 94.7 | 95.3 | 97.7 | 101.1 | 105.1 | 106.4 | 107.8 | 107.3 | 105.5 | 144.5 | | | | |
| 4000 | 89.3 | 90.8 | 90.6 | 92.4 | 93.4 | 96.1 | 97.9 | 100.9 | 104.3 | 106.4 | 107.1 | 106.3 | 104.3 | 144.5 | | | | |
| 5000 | 88.9 | 91.7 | 91.7 | 93.5 | 94.6 | 96.7 | 97.8 | 101.5 | 104.2 | 105.8 | 107.0 | 105.9 | 104.7 | 144.0 | | | | |
| 6300 | 89.7 | 94.8 | 93.6 | 94.1 | 95.7 | 97.3 | 98.9 | 101.6 | 104.1 | 106.4 | 105.9 | 106.0 | 105.3 | 144.3 | | | | |
| 8000 | 90.5 | 98.1 | 94.6 | 94.9 | 96.2 | 97.3 | 99.7 | 101.3 | 103.3 | 104.5 | 104.9 | 105.5 | 104.7 | 144.6 | | | | |
| 10000 | 90.1 | 100.0 | 98.3 | 97.8 | 97.4 | 97.0 | 98.4 | 101.3 | 103.3 | 104.5 | 104.9 | 105.5 | 104.7 | 144.5 | | | | |
| 12500 | 88.3 | 97.5 | 96.7 | 98.6 | 98.7 | 97.0 | 97.8 | 98.9 | 101.4 | 103.3 | 103.7 | 103.1 | 103.3 | 143.5 | | | | |
| 16000 | 85.8 | 94.4 | 94.5 | 97.0 | 98.5 | 97.3 | 98.5 | 100.8 | 101.3 | 101.6 | 101.2 | 102.1 | 143.2 | | | | | |
| 20000 | 82.6 | 91.1 | 91.2 | 93.6 | 96.9 | 95.7 | 96.2 | 95.1 | 96.9 | 97.5 | 97.8 | 97.7 | 98.1 | 141.2 | | | | |
| 25000 | 79.6 | 88.6 | 88.0 | 90.1 | 92.1 | 92.3 | 92.3 | 92.3 | 92.3 | 94.1 | 95.5 | 93.5 | 94.3 | 139.3 | | | | |
| 31500 | 76.6 | 85.7 | 87.1 | 88.6 | 90.3 | 89.8 | 90.5 | 91.1 | 91.4 | 91.7 | 91.9 | 91.8 | 92.2 | 139.2 | | | | |
| 40000 | 72.3 | 80.8 | 83.7 | 84.7 | 85.3 | 85.8 | 86.0 | 87.0 | 87.7 | 88.5 | 88.3 | 86.9 | 87.7 | 138.4 | | | | |
| 50000 | 66.6 | 74.0 | 79.2 | 78.5 | 78.1 | 78.7 | 78.6 | 80.7 | 81.1 | 82.4 | 83.5 | 80.5 | 80.8 | 136.4 | | | | |
| 63000 | 60.7 | 67.2 | 73.3 | 72.0 | 71.0 | 71.7 | 72.3 | 73.7 | 74.5 | 76.1 | 78.4 | 73.6 | 74.6 | 136.3 | | | | |
| 80000 | 57.1 | 62.2 | 68.8 | 65.9 | 65.1 | 66.3 | 65.6 | 67.4 | 70.0 | 72.9 | 73.6 | 65.9 | 68.9 | 140.6 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 100.9 | 106.2 | 105.4 | 106.6 | 107.8 | 108.3 | 109.6 | 112.1 | 115.6 | 118.0 | 119.7 | 120.3 | 119.8 | | | | | |
| PND8 | 113.4 | 116.5 | 115.8 | 117.0 | 118.6 | 119.9 | 121.5 | 124.4 | 128.2 | 130.4 | 131.9 | 132.0 | 131.0 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3110 ACUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 25 HR. 16.7

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 83.1 | 85.4 | 86.4 | 86.7 | 88.0 | 89.7 | 91.5 | 93.5 | 96.7 | 101.0 | 105.2 | 108.1 | 109.2 | 153.8 |
| RDG. NO. | 63 | 84.5 | 87.8 | 89.0 | 91.1 | 91.8 | 92.6 | 94.8 | 99.0 | 103.6 | 108.0 | 111.2 | 111.3 | 156.2 |
| RADIAL 150. FT. | 80 | 86.3 | 87.8 | 89.0 | 91.4 | 92.3 | 93.7 | 96.3 | 100.5 | 105.9 | 111.3 | 112.8 | 112.0 | 158.1 |
| (46. M) | 125 | 88.2 | 89.2 | 89.7 | 91.8 | 93.9 | 94.8 | 96.9 | 101.9 | 107.9 | 112.4 | 114.1 | 112.6 | 159.3 |
| VEHICLE CELL41 | 160 | 89.5 | 90.7 | 91.0 | 92.8 | 94.5 | 95.9 | 98.3 | 103.2 | 108.3 | 112.3 | 113.7 | 112.5 | 159.3 |
| CONFIG NC42 | 200 | 91.5 | 92.6 | 93.3 | 94.1 | 95.7 | 96.8 | 98.2 | 100.6 | 105.3 | 109.4 | 110.9 | 110.3 | 159.2 |
| LOC C41 ANECH CH | 250 | 91.6 | 92.4 | 94.2 | 94.7 | 96.0 | 97.7 | 98.8 | 102.0 | 106.9 | 110.2 | 111.1 | 110.4 | 158.3 |
| DATE 06-02-76 | 315 | 92.0 | 93.3 | 92.8 | 95.1 | 96.2 | 98.8 | 99.7 | 102.1 | 107.5 | 109.6 | 110.1 | 110.2 | 158.6 |
| RUN CONF3VELDEPN | 400 | 92.3 | 93.8 | 94.1 | 95.4 | 97.0 | 98.3 | 100.2 | 102.9 | 107.6 | 109.7 | 110.6 | 110.5 | 158.6 |
| TAPE X311(C) | 500 | 92.4 | 93.7 | 94.2 | 96.0 | 98.1 | 98.4 | 100.1 | 103.2 | 108.2 | 109.5 | 110.2 | 110.2 | 158.8 |
| BAR 29.4 HG | 630 | 93.2 | 94.6 | 95.0 | 96.2 | 98.1 | 98.7 | 101.1 | 104.5 | 108.5 | 109.8 | 111.3 | 110.7 | 158.8 |
| (99347. N/M2) | 800 | 92.7 | 94.3 | 94.0 | 95.8 | 96.9 | 99.5 | 101.4 | 104.3 | 107.3 | 109.9 | 110.6 | 109.7 | 159.3 |
| TAMP 64. DEG F | 1000 | 92.4 | 95.2 | 97.0 | 97.0 | 98.0 | 100.2 | 101.3 | 105.0 | 107.7 | 109.3 | 110.5 | 109.4 | 158.9 |
| (291. DEG K) | 1250 | 93.3 | 98.3 | 97.1 | 97.6 | 99.2 | 100.8 | 102.5 | 105.1 | 107.6 | 110.0 | 109.4 | 109.6 | 158.8 |
| TRET 61. DEG F | 1600 | 94.2 | 101.8 | 98.3 | 98.6 | 99.9 | 101.0 | 103.4 | 105.6 | 108.1 | 110.0 | 109.4 | 109.6 | 159.1 |
| (289. DEG K) | 2000 | 94.1 | 103.9 | 102.3 | 101.8 | 101.3 | 100.9 | 102.3 | 105.3 | 107.3 | 108.4 | 109.3 | 108.5 | 159.4 |
| HACT12.82 GM/M3 | 2500 | 92.6 | 101.8 | 100.9 | 102.9 | 103.0 | 101.3 | 102.1 | 104.2 | 105.7 | 107.6 | 108.0 | 107.3 | 159.3 |
| (.01282 KG/M3) | 3150 | 90.7 | 99.2 | 99.4 | 101.8 | 103.4 | 102.5 | 102.2 | 103.3 | 105.6 | 106.1 | 106.5 | 106.0 | 158.6 |
| FREQ. SHIFT | 4000 | 88.1 | 96.7 | 96.8 | 99.2 | 102.4 | 101.3 | 101.8 | 102.5 | 103.0 | 103.4 | 103.3 | 103.7 | 156.0 |
| JET | 5000 | 86.5 | 95.5 | 94.9 | 96.9 | 98.9 | 99.1 | 98.2 | 98.4 | 101.6 | 101.0 | 102.3 | 101.1 | 156.0 |
| DIAMETER RATIO | 6300 | 85.1 | 94.1 | 95.6 | 97.3 | 98.8 | 98.2 | 99.0 | 99.5 | 99.8 | 100.1 | 100.3 | 100.7 | 154.1 |
| DF/DH 5-50 | 8000 | 83.0 | 91.6 | 94.5 | 95.5 | 96.1 | 96.6 | 96.8 | 97.8 | 98.4 | 99.3 | 99.1 | 97.7 | 98.5 |
| | 10000 | 80.4 | 87.8 | 93.0 | 92.3 | 91.9 | 92.5 | 92.4 | 94.5 | 94.9 | 96.2 | 97.3 | 94.3 | 94.6 |
| | 12500 | 79.0 | 85.4 | 91.5 | 90.2 | 89.3 | 89.9 | 90.6 | 92.0 | 92.8 | 94.3 | 96.7 | 91.8 | 92.9 |
| | 16000 | 81.7 | 86.8 | 93.4 | 90.6 | 89.7 | 90.9 | 90.2 | 92.0 | 94.6 | 97.6 | 98.2 | 90.5 | 93.5 |
| OVERALL CALCULATED | 104.6 | 110.3 | 109.8 | 110.9 | 112.2 | 112.5 | 113.6 | 113.9 | 119.3 | 121.6 | 123.2 | 123.7 | 123.1 | 155.4 |
| PHDB | 116.3 | 123.5 | 123.1 | 124.6 | 126.0 | 125.9 | 126.4 | 128.0 | 130.8 | 132.3 | 133.2 | 133.0 | 132.9 | 171.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT S110 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | O. C. (O.) (O.) (O.) (O.) | | | | | | | |
|--------------------|---|------|------|------|------|------------------------------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | |
| 50 | (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.) | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | |
| 63 | 58.8 | 60.9 | 61.9 | 63.7 | 65.6 | 67.2 | 68.7 | 71.1 | 74.4 | 78.0 | 77.7 | 75.3 | |
| 80 | 57.9 | 61.1 | 63.4 | 64.7 | 66.9 | 68.0 | 69.2 | 71.4 | 74.9 | 79.1 | 83.0 | 82.1 | 77.9 |
| 100 | 58.7 | 60.8 | 62.7 | 64.9 | 67.2 | 69.5 | 70.2 | 71.9 | 76.2 | 81.1 | 84.0 | 83.3 | 78.2 |
| 125 | 59.6 | 62.3 | 63.9 | 66.7 | 68.7 | 70.0 | 71.2 | 73.2 | 77.4 | 81.4 | 83.7 | 82.7 | 77.8 |
| 150 | 60.7 | 63.7 | 65.1 | 67.6 | 69.9 | 70.9 | 72.6 | 74.6 | 78.8 | 82.0 | 83.3 | 81.5 | 77.3 |
| 200 | 62.6 | 65.3 | 67.2 | 68.8 | 70.8 | 72.1 | 73.3 | 75.3 | 79.2 | 82.1 | 81.9 | 78.8 | 75.4 |
| 250 | 62.4 | 64.9 | 67.9 | 69.2 | 71.0 | 72.8 | 73.8 | 75.5 | 80.6 | 82.0 | 81.0 | 79.4 | 74.5 |
| 315 | 62.4 | 65.5 | 66.3 | 69.4 | 70.9 | 73.7 | 74.4 | 76.4 | 81.0 | 81.9 | 80.5 | 78.0 | 73.8 |
| 400 | 62.3 | 65.7 | 67.2 | 69.4 | 71.4 | 72.9 | 74.7 | 76.9 | 80.7 | 81.5 | 80.6 | 77.7 | 72.5 |
| 500 | 61.9 | 65.1 | 67.0 | 69.6 | 72.2 | 72.7 | 74.2 | 76.9 | 81.0 | 79.7 | 76.7 | 71.6 | |
| 630 | 61.9 | 65.8 | 67.2 | 69.4 | 71.8 | 72.6 | 74.8 | 77.7 | 80.7 | 80.7 | 80.0 | 76.3 | 69.3 |
| 800 | 60.6 | 64.4 | 65.7 | 66.4 | 70.0 | 72.8 | 74.5 | 76.9 | 79.4 | 80.0 | 78.5 | 74.2 | 66.3 |
| 1000 | 59.2 | 64.4 | 66.0 | 68.8 | 70.5 | 72.8 | 73.7 | 76.8 | 78.5 | 78.5 | 77.3 | 72.5 | 64.7 |
| 1250 | 58.7 | 66.4 | 66.9 | 68.6 | 70.8 | 72.6 | 74.0 | 76.1 | 77.4 | 78.1 | 74.9 | 70.9 | 62.7 |
| 1600 | 57.7 | 68.3 | 66.8 | 68.2 | 70.2 | 71.6 | 73.7 | 75.2 | 76.5 | 76.4 | 72.9 | 68.1 | 58.7 |
| 2000 | 55.3 | 68.5 | 69.0 | 69.9 | 70.2 | 70.0 | 71.2 | 73.4 | 74.0 | 73.0 | 70.1 | 65.2 | 54.5 |
| 2500 | 50.4 | 63.6 | 65.2 | 68.7 | 69.7 | 68.3 | 68.8 | 70.0 | 69.4 | 65.9 | 53.8 | 46.9 | |
| 3150 | 43.2 | 56.5 | 59.7 | 64.0 | 66.6 | 66.1 | 65.4 | 65.5 | 66.0 | 63.4 | 59.0 | 50.5 | 36.0 |
| 4000 | 32.5 | 47.2 | 51.9 | 56.0 | 60.5 | 59.8 | 59.9 | 57.4 | 56.9 | 53.6 | 47.8 | 37.2 | 17.2 |
| 5000 | 26.2 | 42.1 | 45.9 | 50.6 | 54.0 | 54.7 | 54.3 | 52.1 | 52.8 | 47.6 | 42.0 | 28.2 | 5.7 |
| 6300 | 11.0 | 29.3 | 36.5 | 41.7 | 45.1 | 45.2 | 43.3 | 43.9 | 40.7 | 35.3 | 26.3 | 10.2 | |
| 8000 | | 9.2 | 19.9 | 25.8 | 28.9 | 30.3 | 29.7 | 28.1 | 23.9 | 16.9 | 3.9 | | |
| 10000 | | | | 2.8 | 6.0 | 7.7 | 6.5 | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.6 | 77.3 | 78.6 | 80.8 | 82.7 | 84.0 | 85.4 | 87.6 | 90.9 | 92.4 | 92.9 | 91.2 | 86.7 |
| PN08 | 78.2 | 87.4 | 88.5 | 90.8 | 92.5 | 92.6 | 93.8 | 95.5 | 97.6 | 98.1 | 96.9 | 93.8 | 87.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/10 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOIS)
 PROC. DATE - MONTH 8 DAY 26 HR. 12.4

| RDG. NO. | NO EGA | FREQ. | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | PROC. DATE - MONTH 8 DAY 26 HR. 12.4 | | | | |
|--|--------|-------|------|------|------|---|------|-------|-------|--------------------------------------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 100 | 80 | 78.4 | 87.6 | 85.4 | 87.0 | 88.5 | 88.7 | 88.5 | 89.5 | 90.9 | 92.0 | 95.9 | 95.4 | 98.4 |
| 125 | 80 | 78.6 | 82.1 | 84.1 | 86.2 | 88.5 | 88.6 | 89.2 | 89.4 | 90.1 | 89.9 | 97.6 | 98.6 | 99.6 |
| 160 | 80 | 78.4 | 80.9 | 84.4 | 84.2 | 85.3 | 85.7 | 85.5 | 87.2 | 90.2 | 95.5 | 98.9 | 100.4 | 102.2 |
| 200 | 80 | 81.5 | 81.3 | 82.5 | 85.3 | 86.2 | 87.0 | 87.7 | 89.8 | 93.5 | 97.6 | 101.6 | 105.0 | 106.3 |
| 250 | 80 | 81.1 | 83.6 | 84.6 | 85.4 | 87.0 | 87.6 | 89.2 | 91.9 | 95.1 | 99.4 | 105.1 | 107.3 | 108.1 |
| 315 | 80 | 82.7 | 86.2 | 84.7 | 87.2 | 89.6 | 90.9 | 91.6 | 93.2 | 97.4 | 102.5 | 107.7 | 110.1 | 110.2 |
| 400 | 80 | 84.7 | 85.7 | 87.5 | 87.3 | 89.6 | 91.0 | 91.8 | 94.5 | 99.7 | 105.8 | 110.5 | 111.9 | 111.0 |
| 500 | 80 | 85.5 | 86.5 | 87.5 | 88.6 | 90.2 | 92.0 | 93.7 | 96.3 | 101.3 | 108.4 | 112.3 | 113.2 | 111.3 |
| 630 | 80 | 87.1 | 87.9 | 88.6 | 90.2 | 92.0 | 93.4 | 95.0 | 97.4 | 102.6 | 109.2 | 113.2 | 114.1 | 111.9 |
| 800 | 80 | 88.9 | 89.7 | 89.9 | 91.7 | 93.0 | 94.7 | 96.5 | 99.2 | 104.4 | 110.0 | 113.4 | 114.1 | 113.2 |
| 1000 | 80 | 92.2 | 92.7 | 93.0 | 93.8 | 94.9 | 96.0 | 97.4 | 100.0 | 104.7 | 109.8 | 112.5 | 113.4 | 113.0 |
| 1250 | 80 | 91.0 | 92.3 | 93.8 | 93.9 | 95.2 | 97.3 | 97.9 | 101.4 | 105.6 | 108.9 | 111.4 | 114.3 | 113.1 |
| 1600 | 80 | 90.6 | 91.9 | 92.2 | 93.5 | 95.1 | 97.2 | 98.1 | 101.2 | 105.9 | 108.3 | 111.0 | 113.6 | 112.9 |
| 2000 | 80 | 91.7 | 92.0 | 93.2 | 93.8 | 95.3 | 96.7 | 98.8 | 102.5 | 106.2 | 108.3 | 110.3 | 112.6 | 111.5 |
| 2500 | 80 | 91.0 | 91.8 | 93.1 | 94.1 | 96.2 | 97.1 | 98.5 | 102.4 | 106.3 | 107.7 | 109.9 | 112.3 | 110.3 |
| 3150 | 80 | 91.5 | 92.5 | 93.3 | 93.8 | 95.2 | 97.3 | 98.9 | 103.1 | 106.6 | 107.4 | 110.3 | 111.5 | 108.8 |
| 4000 | 80 | 90.5 | 91.3 | 93.9 | 95.2 | 97.1 | 99.2 | 103.4 | 105.6 | 107.2 | 109.4 | 109.8 | 107.1 | 146.9 |
| 5000 | 80 | 90.6 | 92.2 | 93.0 | 94.0 | 95.8 | 97.2 | 99.3 | 102.7 | 105.5 | 106.8 | 109.5 | 108.9 | 145.9 |
| 6300 | 80 | 90.2 | 94.8 | 93.6 | 94.9 | 96.5 | 98.3 | 99.4 | 102.6 | 105.6 | 106.4 | 108.3 | 108.7 | 145.7 |
| 8000 | 80 | 89.4 | 95.5 | 95.6 | 95.8 | 96.0 | 96.7 | 98.2 | 102.6 | 105.6 | 106.0 | 108.4 | 108.1 | 145.8 |
| 10000 | 80 | 86.5 | 93.0 | 95.1 | 96.4 | 96.4 | 96.5 | 97.8 | 100.6 | 102.6 | 103.1 | 104.7 | 105.0 | 145.2 |
| 12500 | 80 | 84.1 | 90.6 | 92.3 | 94.7 | 96.5 | 96.3 | 97.0 | 99.2 | 101.8 | 101.0 | 103.6 | 104.1 | 144.0 |
| 16000 | 80 | 81.5 | 88.1 | 89.9 | 91.3 | 94.8 | 93.9 | 95.7 | 95.8 | 99.2 | 98.2 | 98.3 | 99.7 | 143.6 |
| 20000 | 80 | 78.3 | 86.9 | 88.2 | 89.3 | 91.0 | 90.5 | 92.0 | 92.3 | 96.0 | 94.1 | 97.2 | 95.0 | 141.3 |
| 31500 | 80 | 75.6 | 83.9 | 86.6 | 88.3 | 90.0 | 88.8 | 89.2 | 91.2 | 92.8 | 91.4 | 93.3 | 94.2 | 139.5 |
| 40000 | 80 | 71.4 | 78.5 | 82.1 | 84.1 | 85.0 | 83.0 | 85.2 | 87.0 | 88.6 | 88.4 | 89.7 | 90.6 | 138.7 |
| 50000 | 80 | 65.2 | 72.6 | 76.5 | 78.1 | 77.0 | 77.3 | 79.5 | 80.3 | 82.0 | 82.5 | 85.4 | 83.9 | 137.0 |
| 63000 | 80 | 60.4 | 65.5 | 70.9 | 70.6 | 69.6 | 70.3 | 73.7 | 72.9 | 75.6 | 75.9 | 81.2 | 77.4 | 137.2 |
| 80000 | 80 | 56.7 | 60.5 | 66.6 | 64.5 | 63.5 | 64.8 | 70.2 | 66.2 | 70.3 | 72.2 | 78.6 | 71.5 | 142.6 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED 102.3 104.8 105.7 106.6 108.2 109.2 110.7 113.8 117.3 120.0 123.0 124.4 123.1 | | | | | | | | | | | | | | |
| PNDB 115.0 116.6 117.4 119.1 120.0 121.3 122.9 126.5 129.9 131.9 134.8 136.0 136.4 | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **3112** ACOUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-109cm²(16.9in²)**

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 26 HR. 16.7 | | | | | | | | | | | | | | | |
|--|--------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|-------|
| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 26 HR. 16.7 | | | | | | | | | | | | | | | |
| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
| NO EGA | (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.) | 156.1 |
| 50 | 84.4 | 86.9 | 87.9 | 88.7 | 90.3 | 90.9 | 93.5 | 95.2 | 98.4 | 102.7 | 108.4 | 110.6 | 111.4 | | | | 158.6 |
| 63 | 86.0 | 89.5 | 88.0 | 90.6 | 92.9 | 94.3 | 94.9 | 96.6 | 100.8 | 105.8 | 111.0 | 113.5 | 113.5 | | | | 160.6 |
| 80 | 88.0 | 89.0 | 90.8 | 91.1 | 92.9 | 94.3 | 95.2 | 97.8 | 103.0 | 109.1 | 113.8 | 115.3 | 114.6 | | | | 162.1 |
| RADIAL 150. FT. | 100 | 88.3 | 89.9 | 90.8 | 91.9 | 93.5 | 95.4 | 97.0 | 99.7 | 104.6 | 111.7 | 115.7 | 116.6 | | | | 163.0 |
| (46. M) | 125 | 90.4 | 91.2 | 92.0 | 93.5 | 95.4 | 96.7 | 98.6 | 100.8 | 106.0 | 112.5 | 116.5 | 117.4 | | | | 163.5 |
| VEHICLE CELL41 | 160 | 92.2 | 93.0 | 93.2 | 95.0 | 96.4 | 98.0 | 99.9 | 102.5 | 107.7 | 113.3 | 116.8 | 117.5 | | | | 163.1 |
| CONFIG NC42 | 200 | 95.5 | 96.1 | 96.3 | 97.1 | 98.2 | 99.3 | 100.7 | 103.4 | 108.1 | 113.2 | 115.9 | 116.8 | | | | 163.1 |
| LOC C41 ANECH CH | 250 | 94.4 | 95.7 | 97.2 | 97.2 | 98.5 | 100.7 | 103.3 | 104.7 | 108.9 | 112.2 | 114.7 | 116.6 | | | | 162.7 |
| DATE 06-02-76 | 315 | 94.0 | 95.3 | 95.5 | 96.8 | 98.4 | 100.5 | 103.4 | 104.6 | 109.3 | 111.6 | 114.3 | 117.0 | | | | 162.1 |
| RUN CONF3VELDEPN | 400 | 95.0 | 95.3 | 96.6 | 97.1 | 98.7 | 100.1 | 102.2 | 105.9 | 109.6 | 111.7 | 113.6 | 115.8 | | | | 161.8 |
| TAPE X31120 | 500 | 94.4 | 95.2 | 96.5 | 97.5 | 99.6 | 100.4 | 103.8 | 105.7 | 109.7 | 111.0 | 113.2 | 115.7 | | | | 161.7 |
| BAR 29-4 HG | 630 | 94.9 | 95.9 | 96.7 | 97.2 | 99.6 | 100.7 | 103.3 | 106.5 | 110.0 | 114.8 | 113.8 | 114.9 | | | | 160.9 |
| (99347. N/M2) | 800 | 94.0 | 94.8 | 96.8 | 97.3 | 98.7 | 100.5 | 102.7 | 106.8 | 109.5 | 110.6 | 112.8 | 113.2 | | | | 160.7 |
| TAMB 64. DEG F | 1000 | 94.1 | 95.7 | 96.4 | 97.5 | 99.3 | 100.7 | 102.8 | 106.2 | 108.9 | 110.3 | 113.0 | 112.4 | | | | 160.5 |
| (291. DEG K) | 1250 | 93.8 | 96.6 | 97.9 | 98.4 | 100.0 | 101.8 | 103.0 | 106.1 | 109.1 | 110.0 | 111.9 | 112.3 | | | | 160.6 |
| TWET 61. DEG F | 1600 | 93.9 | 98.5 | 97.3 | 98.6 | 100.2 | 103.0 | 103.9 | 106.3 | 109.3 | 109.7 | 112.1 | 111.8 | | | | 160.0 |
| (289. DEG K) | 2000 | 93.3 | 99.4 | 99.5 | 99.8 | 100.6 | 100.7 | 102.6 | 106.5 | 108.8 | 108.9 | 110.6 | 110.9 | | | | 158.8 |
| HACT13.05 GW/M3 | 2500 | 90.8 | 97.3 | 99.4 | 100.6 | 100.7 | 102.1 | 104.9 | 106.9 | 107.4 | 109.0 | 109.3 | 108.3 | | | | 158.4 |
| (.01305 KG/M3) | 3150 | 88.9 | 95.4 | 97.1 | 99.6 | 101.3 | 101.2 | 101.9 | 104.1 | 106.6 | 105.9 | 108.5 | 109.0 | | | | 156.1 |
| FREQ. SHIFT | 4000 | 87.1 | 93.6 | 95.5 | 96.9 | 100.4 | 99.5 | 101.2 | 101.3 | 104.7 | 103.7 | 103.9 | 105.3 | | | | 154.5 |
| JET 7 | 5000 | 85.2 | 93.7 | 95.1 | 96.1 | 97.9 | 97.3 | 98.9 | 98.1 | 102.8 | 100.9 | 104.0 | 102.5 | | | | 154.3 |
| DIAMETER RATIO | 6300 | 84.0 | 92.3 | 95.0 | 96.7 | 98.5 | 97.2 | 97.7 | 99.7 | 101.2 | 99.8 | 101.8 | 102.6 | | | | 153.5 |
| DF/DM 5.50 | 8000 | 82.2 | 89.3 | 92.9 | 94.9 | 95.7 | 94.5 | 96.0 | 97.7 | 99.3 | 99.2 | 100.5 | 101.4 | | | | 151.8 |
| | 10000 | 79.0 | 83.4 | 90.4 | 91.9 | 90.8 | 91.1 | 93.3 | 94.1 | 93.8 | 96.3 | 99.2 | 97.7 | | | | 152.0 |
| | 12000 | 78.6 | 83.8 | 89.1 | 88.9 | 87.9 | 88.6 | 91.9 | 91.1 | 93.9 | 94.2 | 99.5 | 95.7 | | | | 157.4 |
| | 16000 | 81.3 | 85.1 | 91.2 | 89.1 | 88.1 | 89.5 | 94.8 | 90.8 | 94.9 | 96.8 | 103.2 | 96.1 | | | | 174.5 |
| OVERALL CALCULATED | 105.8 | 108.6 | 109.7 | 110.7 | 112.2 | 113.0 | 114.6 | 117.6 | 121.0 | 123.5 | 126.5 | 127.7 | 126.4 | | | | |
| PW88 | 116.3 | 121.0 | 122.5 | 123.7 | 125.2 | 125.5 | 126.8 | 129.2 | 132.2 | 133.0 | 135.4 | 136.2 | 134.8 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3112 SIZE FULL-.33m²(513in²)

ACOUSTIC RANGE 45.7m(150ft.) ARC

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | |
|----------------------------------|---|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
| SIDELINE 2400. FT.
(731.52 M) | 56.2 | 60.3 | 62.4 | 63.9 | 65.9 | 66.7 | 69.2 | 70.4 | 72.9 | 76.1 | 80.3 | 80.2 | 77.5 | 79.5 | 83.0 | 82.8 | 83.0 |
| NFA (0. RAD/SEC) | 57.7 | 62.8 | 62.4 | 65.7 | 68.5 | 70.0 | 70.5 | 71.7 | 75.2 | 79.2 | 82.8 | 83.0 | 79.5 | 80.1 | 84.6 | 85.5 | 84.6 |
| NFK (1. RPM) | 60.4 | 63.0 | 65.2 | 66.2 | 68.4 | 70.0 | 70.7 | 72.9 | 77.4 | 82.4 | 85.8 | 80.2 | 80.2 | 80.6 | 86.5 | 87.9 | 86.5 |
| (0. RAD/SEC) | 63.5 | 65.9 | 67.3 | 69.9 | 71.6 | 73.4 | 75.1 | 77.4 | 81.8 | 86.2 | 88.0 | 81.5 | 81.5 | 81.5 | 88.3 | 88.0 | 81.5 |
| (0. RAD/SEC) | 66.6 | 68.8 | 70.2 | 71.8 | 73.3 | 74.6 | 75.8 | 78.1 | 82.0 | 85.9 | 85.3 | 80.9 | 80.9 | 80.9 | 85.3 | 85.9 | 80.9 |
| (7500. RPM) | 64.4 | 67.5 | 68.0 | 71.1 | 73.2 | 75.4 | 76.2 | 78.9 | 82.8 | 83.9 | 84.8 | 79.8 | 79.8 | 79.8 | 84.8 | 84.8 | 79.8 |
| (785. RAD/SEC) | 55.3 | 67.2 | 69.7 | 71.1 | 73.2 | 74.7 | 76.7 | 79.9 | 82.7 | 83.5 | 83.6 | 83.0 | 77.5 | 77.5 | 82.2 | 82.7 | 75.3 |
| AIRFLOW RATIO | 63.9 | 66.6 | 69.2 | 71.1 | 73.7 | 74.7 | 76.0 | 79.4 | 82.5 | 82.5 | 82.7 | 82.2 | 72.5 | 72.5 | 80.6 | 82.5 | 72.5 |
| WF/WM 5.50 | 33.7 | 66.8 | 68.0 | 70.4 | 73.3 | 74.6 | 76.0 | 79.7 | 82.2 | 81.7 | 82.5 | 80.6 | 72.5 | 72.5 | 80.6 | 82.5 | 72.5 |
| VEHICLE CELL41 | 61.9 | 64.9 | 68.4 | 69.9 | 71.8 | 73.8 | 75.8 | 79.4 | 80.7 | 80.8 | 80.7 | 77.7 | 69.1 | 69.1 | 75.5 | 75.5 | 66.9 |
| CONFIG NC42 | 60.9 | 64.9 | 67.3 | 69.3 | 71.7 | 73.3 | 75.2 | 78.1 | 79.8 | 79.5 | 79.8 | 75.5 | 66.9 | 66.9 | 75.5 | 75.5 | 66.9 |
| LOC C41 ANECHOIC CH | 59.2 | 64.7 | 67.7 | 69.3 | 71.5 | 73.6 | 76.5 | 77.1 | 78.9 | 78.1 | 77.4 | 73.6 | 64.2 | 64.2 | 73.6 | 73.6 | 64.2 |
| DATE 06-02-76 | 57.5 | 65.0 | 65.7 | 68.2 | 70.5 | 72.6 | 74.2 | 76.0 | 77.7 | 76.2 | 75.7 | 70.6 | 59.7 | 59.7 | 70.6 | 70.6 | 59.7 |
| RUN CONF3VELDEPH | 54.5 | 64.0 | 66.2 | 67.8 | 69.4 | 69.8 | 71.4 | 74.6 | 75.3 | 73.5 | 71.8 | 66.7 | 55.2 | 55.2 | 71.8 | 66.7 | 55.2 |
| TAPE X31120 | 48.7 | 59.1 | 63.7 | 66.5 | 67.4 | 67.8 | 68.8 | 70.7 | 71.2 | 69.1 | 66.9 | 60.8 | 47.6 | 47.6 | 60.8 | 60.8 | 47.6 |
| FAN TIP SPEED | 41.4 | 52.7 | 57.4 | 61.8 | 64.6 | 64.8 | 65.2 | 66.3 | 66.9 | 63.1 | 60.9 | 53.4 | 36.7 | 36.7 | 60.9 | 53.4 | 36.7 |
| FT/SEC | 31.5 | 44.2 | 49.9 | 53.7 | 58.5 | 58.0 | 59.3 | 58.1 | 59.1 | 54.3 | 48.2 | 39.2 | 17.7 | 17.7 | 54.3 | 48.2 | 17.7 |
| OVERALL CALCULATED | 24.9 | 40.3 | 46.1 | 49.8 | 53.0 | 52.9 | 54.0 | 52.8 | 53.8 | 47.6 | 43.7 | 30.4 | 6.4 | 6.4 | 47.6 | 43.7 | 30.4 |
| 10000 | 10.0 | 27.5 | 35.9 | 41.1 | 44.8 | 44.1 | 44.0 | 44.1 | 42.1 | 35.0 | 27.7 | 12.7 | | | 35.0 | 27.7 | 12.7 |
| 12500 | 6.9 | 18.4 | 25.2 | 28.6 | 28.6 | 28.2 | 28.9 | 28.0 | 24.8 | 16.8 | 5.4 | | | | 16.8 | 5.4 | |
| 16000 | 2.5 | 4.9 | 6.3 | 7.4 | 4.7 | | | | | | | | | | | | |
| PNDB | 74.8 | 78.0 | 80.2 | 82.0 | 84.1 | 85.7 | 87.0 | 89.8 | 92.8 | 95.1 | 96.5 | 90.3 | | | 95.1 | 96.5 | 90.3 |
| | 79.6 | 85.4 | 88.0 | 90.2 | 92.1 | 93.4 | 94.8 | 97.2 | 99.2 | 99.7 | 100.1 | 98.5 | | | 99.7 | 100.1 | 98.5 |

CONFIGURATION **3** TEST POINT **3112** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE
ANECHOIC JET NOISE TEST FACILITY RESULTS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM., DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 12.4

| RDG. NO. | MO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|
| | | (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 | | | | | | | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | | | | | | |
| 100 | 78.9 | 87.9 | 85.9 | 87.7 | 89.3 | 89.2 | 89.3 | 90.5 | 90.9 | 92.7 | 96.7 | 96.1 | 99.2 | 133.9 | | | | |
| 125 | 78.3 | 82.6 | 84.1 | 87.2 | 89.0 | 89.9 | 89.9 | 90.9 | 90.6 | 90.2 | 98.4 | 99.8 | 100.9 | 135.1 | | | | |
| 160 | 78.9 | 81.2 | 84.4 | 84.7 | 85.5 | 85.7 | 85.8 | 87.2 | 89.7 | 93.5 | 99.4 | 100.4 | 102.7 | 135.7 | | | | |
| 200 | 82.0 | 81.5 | 82.5 | 85.1 | 86.2 | 87.0 | 87.9 | 89.8 | 93.5 | 97.9 | 102.1 | 105.3 | 106.5 | 139.2 | | | | |
| 250 | 81.1 | 83.6 | 84.8 | 85.6 | 86.5 | 87.6 | 90.2 | 91.9 | 94.8 | 100.2 | 105.9 | 107.0 | 108.3 | 141.5 | | | | |
| 315 | 82.7 | 86.2 | 84.7 | 86.7 | 89.6 | 90.4 | 91.3 | 93.0 | 96.9 | 103.3 | 108.5 | 110.6 | 110.4 | 144.3 | | | | |
| 400 | 85.2 | 86.2 | 88.0 | 88.0 | 89.6 | 91.2 | 91.8 | 94.3 | 99.0 | 106.5 | 111.2 | 111.9 | 111.0 | 146.1 | | | | |
| 500 | 85.8 | 86.3 | 87.8 | 88.6 | 90.2 | 91.8 | 93.4 | 95.6 | 100.3 | 108.9 | 113.1 | 113.5 | 111.8 | 147.8 | | | | |
| 630 | 86.9 | 88.4 | 88.9 | 90.4 | 91.8 | 93.1 | 94.5 | 96.9 | 102.4 | 109.5 | 113.9 | 114.6 | 112.6 | 148.7 | | | | |
| 800 | 89.6 | 89.4 | 90.2 | 91.9 | 92.8 | 94.2 | 96.0 | 98.7 | 103.9 | 110.5 | 115.2 | 115.6 | 113.4 | 149.8 | | | | |
| 1000 | 93.0 | 93.7 | 94.0 | 94.3 | 94.9 | 95.7 | 97.1 | 99.5 | 104.2 | 110.1 | 114.0 | 114.7 | 114.0 | 149.3 | | | | |
| 1250 | 92.3 | 93.3 | 94.1 | 94.4 | 95.4 | 96.8 | 97.7 | 100.6 | 105.3 | 109.9 | 113.1 | 115.8 | 114.3 | 149.5 | | | | |
| 1600 | 91.1 | 92.4 | 92.7 | 93.7 | 95.1 | 97.4 | 97.8 | 101.0 | 105.7 | 109.5 | 112.5 | 115.1 | 113.7 | 150.0 | | | | |
| 2000 | 92.7 | 93.2 | 94.0 | 94.5 | 95.3 | 97.0 | 98.8 | 101.8 | 106.0 | 108.6 | 111.5 | 113.9 | 112.7 | 148.2 | | | | |
| 2500 | 91.5 | 92.6 | 93.6 | 95.1 | 96.5 | 97.6 | 98.7 | 101.6 | 106.6 | 107.9 | 111.1 | 113.0 | 110.8 | 147.6 | | | | |
| 3150 | 92.2 | 93.3 | 93.6 | 94.6 | 96.4 | 97.0 | 99.2 | 102.3 | 106.6 | 108.1 | 111.3 | 111.5 | 109.3 | 147.3 | | | | |
| 4000 | 91.0 | 92.3 | 93.1 | 94.4 | 95.7 | 97.3 | 98.9 | 102.6 | 106.3 | 107.4 | 110.9 | 109.8 | 106.6 | 146.5 | | | | |
| 5000 | 90.6 | 91.9 | 94.0 | 95.0 | 96.3 | 97.4 | 99.1 | 102.7 | 105.7 | 106.8 | 109.3 | 108.7 | 106.9 | 145.9 | | | | |
| 6300 | 89.9 | 92.8 | 94.1 | 96.8 | 96.9 | 98.5 | 99.4 | 102.6 | 105.8 | 106.4 | 109.8 | 108.5 | 107.0 | 146.1 | | | | |
| 8000 | 90.0 | 93.1 | 94.1 | 95.1 | 97.0 | 98.3 | 100.2 | 102.4 | 105.6 | 106.7 | 109.2 | 107.6 | 106.3 | 146.0 | | | | |
| 10000 | 87.9 | 93.2 | 95.6 | 96.1 | 97.4 | 97.2 | 99.1 | 101.6 | 105.1 | 105.2 | 108.1 | 107.0 | 105.2 | 145.5 | | | | |
| 12500 | 85.5 | 90.5 | 94.4 | 96.1 | 96.7 | 96.5 | 98.1 | 100.4 | 102.9 | 103.3 | 106.0 | 105.0 | 104.3 | 144.3 | | | | |
| 16000 | 83.3 | 88.3 | 89.7 | 91.1 | 94.6 | 93.9 | 95.7 | 98.5 | 102.8 | 101.5 | 104.6 | 104.1 | 102.8 | 143.9 | | | | |
| 20000 | 80.5 | 85.3 | 86.7 | 88.8 | 90.8 | 90.8 | 91.8 | 93.3 | 98.7 | 97.9 | 100.1 | 99.5 | 99.1 | 141.4 | | | | |
| 25000 | 77.8 | 83.4 | 86.7 | 88.8 | 89.8 | 88.3 | 89.7 | 90.7 | 92.5 | 91.9 | 95.1 | 93.7 | 93.2 | 139.6 | | | | |
| 31500 | 75.3 | 80.9 | 85.8 | 87.5 | 89.8 | 84.3 | 85.2 | 86.5 | 88.1 | 88.4 | 92.2 | 89.9 | 89.7 | 138.9 | | | | |
| 40000 | 70.7 | 76.3 | 81.4 | 83.6 | 84.5 | 84.3 | 85.2 | 86.5 | 88.1 | 88.4 | 92.2 | 89.9 | 89.7 | 137.5 | | | | |
| 50000 | 65.2 | 70.6 | 75.8 | 76.9 | 76.7 | 77.8 | 79.8 | 79.3 | 81.6 | 82.5 | 88.4 | 83.6 | 82.7 | 138.2 | | | | |
| 63000 | 60.1 | 64.0 | 69.6 | 70.1 | 69.4 | 70.5 | 73.4 | 73.1 | 75.1 | 77.4 | 83.7 | 77.4 | 76.5 | 138.2 | | | | |
| 80000 | 56.7 | 60.0 | 66.3 | 64.3 | 63.5 | 65.3 | 70.5 | 66.0 | 69.8 | 72.5 | 81.3 | 72.2 | 73.5 | 144.0 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 102.7 | 104.5 | 105.8 | 106.9 | 108.4 | 109.3 | 110.7 | 113.4 | 117.3 | 120.5 | 124.2 | 125.1 | 123.7 | 160.4 | | | | |
| PWDB | 115.5 | 117.0 | 117.7 | 118.7 | 120.3 | 121.4 | 122.9 | 125.9 | 129.9 | 132.4 | 135.9 | 136.5 | 134.9 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/1/3 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROC. DATE - MONTH 8 DAY 26 HR. 16.7
 DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | O. | 40. | | | | 50. | | | | 60. | | | | 70. | | | | 80. | | | | 90. | | | | PWL |
|----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|-----|
| | | | (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) | (2.97) | (3.14) | (3.32) | (3.49) | (3.67) | (3.84) | (4.02) | (4.19) | (4.37) | (4.54) | | |
| 53 | 84.4 | 86.9 | 88.2 | 89.0 | 89.8 | 90.9 | 93.5 | 95.2 | 98.2 | 103.5 | 109.2 | 110.4 | 111.7 | 150.3 | | | | | | | | | | | | | |
| 53 | 86.0 | 89.5 | 83.0 | 90.1 | 92.9 | 93.8 | 94.6 | 96.3 | 106.3 | 106.6 | 111.6 | 114.0 | 113.8 | 159.1 | | | | | | | | | | | | | |
| 80 | 88.5 | 89.5 | 91.3 | 91.3 | 92.9 | 94.5 | 95.2 | 97.6 | 102.3 | 109.9 | 114.6 | 115.3 | 114.3 | 160.9 | | | | | | | | | | | | | |
| 100 | 89.1 | 89.6 | 91.1 | 91.9 | 93.5 | 95.1 | 96.8 | 98.9 | 103.6 | 112.2 | 116.4 | 116.8 | 115.1 | 162.6 | | | | | | | | | | | | | |
| 125 | 90.2 | 91.7 | 92.2 | 93.8 | 95.1 | 96.5 | 97.9 | 100.3 | 105.7 | 112.8 | 117.3 | 117.9 | 116.0 | 163.5 | | | | | | | | | | | | | |
| 160 | 93.0 | 92.7 | 93.5 | 95.3 | 96.1 | 97.5 | 99.4 | 102.0 | 113.8 | 118.5 | 119.0 | 116.7 | 164.6 | | | | | | | | | | | | | | |
| 200 | 96.3 | 97.1 | 97.3 | 97.6 | 98.2 | 99.1 | 100.5 | 102.9 | 117.4 | 118.0 | 117.3 | 164.1 | | | | | | | | | | | | | | | |
| 250 | 95.6 | 96.7 | 97.4 | 97.7 | 98.8 | 100.2 | 101.0 | 104.0 | 118.7 | 113.2 | 116.4 | 119.1 | 117.7 | 164.3 | | | | | | | | | | | | | |
| 315 | 94.5 | 95.8 | 96.0 | 97.1 | 98.4 | 100.8 | 101.2 | 104.3 | 109.0 | 112.9 | 115.8 | 118.5 | 117.0 | 163.8 | | | | | | | | | | | | | |
| 400 | 96.0 | 96.6 | 97.3 | 97.9 | 98.7 | 100.3 | 102.2 | 105.1 | 109.3 | 111.9 | 114.9 | 117.3 | 116.1 | 163.0 | | | | | | | | | | | | | |
| 500 | 94.9 | 95.9 | 97.0 | 98.5 | 99.8 | 100.9 | 102.1 | 105.0 | 110.0 | 111.3 | 114.5 | 116.4 | 114.2 | 162.4 | | | | | | | | | | | | | |
| 630 | 95.7 | 96.7 | 97.0 | 98.0 | 99.5 | 100.4 | 102.6 | 105.7 | 110.0 | 111.6 | 114.8 | 114.9 | 112.7 | 162.1 | | | | | | | | | | | | | |
| 800 | 94.5 | 95.8 | 96.5 | 97.8 | 99.2 | 100.8 | 102.4 | 105.1 | 109.8 | 110.9 | 114.3 | 113.2 | 110.0 | 161.3 | | | | | | | | | | | | | |
| 1000 | 94.1 | 95.4 | 97.4 | 98.5 | 99.8 | 100.9 | 102.5 | 106.2 | 109.2 | 110.3 | 113.2 | 112.1 | 110.4 | 160.7 | | | | | | | | | | | | | |
| 1250 | 93.5 | 96.3 | 97.6 | 98.4 | 100.5 | 102.1 | 103.0 | 106.1 | 109.4 | 110.0 | 113.4 | 112.1 | 110.6 | 160.9 | | | | | | | | | | | | | |
| 1600 | 93.7 | 96.8 | 97.8 | 98.8 | 100.7 | 102.0 | 103.9 | 106.1 | 109.3 | 110.5 | 112.9 | 111.3 | 110.0 | 160.8 | | | | | | | | | | | | | |
| 2000 | 91.8 | 97.2 | 99.5 | 100.0 | 101.3 | 101.2 | 103.1 | 105.5 | 109.0 | 109.2 | 112.1 | 110.9 | 109.2 | 160.3 | | | | | | | | | | | | | |
| 2500 | 89.8 | 94.8 | 96.7 | 100.4 | 101.0 | 100.8 | 102.4 | 104.6 | 107.2 | 107.6 | 110.3 | 109.3 | 108.6 | 159.7 | | | | | | | | | | | | | |
| 3150 | 88.2 | 93.2 | 96.9 | 98.8 | 101.3 | 101.2 | 101.9 | 103.3 | 107.6 | 106.4 | 109.5 | 109.0 | 107.7 | 158.7 | | | | | | | | | | | | | |
| 4000 | 86.1 | 90.9 | 95.2 | 98.6 | 100.1 | 99.5 | 101.2 | 100.8 | 104.2 | 103.5 | 105.6 | 105.0 | 104.6 | 156.2 | | | | | | | | | | | | | |
| 5000 | 84.7 | 90.2 | 93.6 | 95.6 | 97.6 | 97.6 | 98.6 | 98.6 | 102.8 | 101.4 | 103.2 | 102.3 | 102.6 | 156.6 | | | | | | | | | | | | | |
| 6300 | 83.8 | 89.3 | 94.2 | 96.0 | 98.2 | 96.7 | 98.2 | 99.2 | 101.0 | 100.3 | 103.5 | 102.1 | 101.6 | 154.4 | | | | | | | | | | | | | |
| 8000 | 81.5 | 87.0 | 92.1 | 94.4 | 95.2 | 95.0 | 96.0 | 97.2 | 98.8 | 99.2 | 103.0 | 100.6 | 100.4 | 153.7 | | | | | | | | | | | | | |
| 10000 | 79.0 | 84.4 | 89.6 | 90.7 | 90.5 | 91.6 | 93.6 | 93.1 | 95.6 | 96.3 | 102.2 | 97.4 | 96.5 | 152.4 | | | | | | | | | | | | | |
| 12500 | 78.4 | 82.3 | 87.9 | 88.4 | 87.6 | 88.8 | 91.7 | 91.4 | 93.4 | 95.7 | 102.0 | 95.7 | 94.7 | 153.0 | | | | | | | | | | | | | |
| 16000 | 81.3 | 84.6 | 90.9 | 88.9 | 88.1 | 90.0 | 95.1 | 90.6 | 94.4 | 97.1 | 106.0 | 96.8 | 97.9 | 158.8 | | | | | | | | | | | | | |
| PND8 | 115.8 | 119.5 | 122.2 | 123.6 | 125.3 | 125.6 | 126.8 | 128.7 | 132.5 | 133.6 | 136.6 | 136.6 | 135.1 | 175.1 | | | | | | | | | | | | | |

OVERALL CALCULATED 106.1 108.1 109.7 110.8 112.3 113.1 114.6 117.1 121.0 124.0 127.7 128.5 127.0

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/1/3 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| MO EGA
SIDELINE 2400. FT.
(731.52 M) | MFA
(1. RPM) | NFK
(1. RPM) | MFD
(7500. RPM) | AIRFLOW RATIO
WF/WF 5.50 | VEHICLE
CELL41 | CONFIG
NC42 | LOC
C41 ANECH CH | DATE
06-02-76 | RUN
CONF3VELDEPN | TAPE
X31150 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY) | | | | 70 PERCENT REL. HUM. DAY |
|--|-----------------|-----------------|--------------------|-----------------------------|-------------------|----------------|---------------------|------------------|---------------------|----------------|-------------------------|--|--------------------------------|--------------------------|--------------------|--------------------------|
| | | | | | | | | | | | | 4C
(0.70)(0.87)(1.05)(1.22)(1.40) | 50
(0.87)(1.05)(1.22)(1.40) | 60
(1.05)(1.22)(1.40) | 70
(1.22)(1.40) | |
| 50 | 56.2 | 60.3 | 62.6 | 64.2 | 65.4 | 66.7 | 69.2 | 70.4 | 72.6 | 76.9 | 81.0 | 79.9 | 77.9 | 150. | 160. | |
| 63 | 57.7 | 62.8 | 65.4 | 68.5 | 69.5 | 70.2 | 71.5 | 74.7 | 79.9 | 83.5 | 83.5 | 79.7 | 79.7 | 150. | 160. | |
| 80 | 60.2 | 62.8 | 65.4 | 68.5 | 69.5 | 70.2 | 71.5 | 74.7 | 79.9 | 83.5 | 83.5 | 79.7 | 79.7 | 150. | 160. | |
| 100 | 60.7 | 62.8 | 65.4 | 68.5 | 69.5 | 70.2 | 71.5 | 74.7 | 79.9 | 83.5 | 83.5 | 79.7 | 79.7 | 150. | 160. | |
| 125 | 61.6 | 64.8 | 66.4 | 68.7 | 70.5 | 72.0 | 73.2 | 75.2 | 79.9 | 85.4 | 88.7 | 87.0 | 87.0 | 150. | 160. | |
| 160 | 64.2 | 65.7 | 67.6 | 70.1 | 71.4 | 72.9 | 74.6 | 76.9 | 81.3 | 86.7 | 89.8 | 87.8 | 87.8 | 150. | 160. | |
| 200 | 67.3 | 69.8 | 71.2 | 72.3 | 73.3 | 74.3 | 75.6 | 77.6 | 81.3 | 86.7 | 89.8 | 87.8 | 87.8 | 150. | 160. | |
| 250 | 66.4 | 69.2 | 71.1 | 72.2 | 73.8 | 75.3 | 76.6 | 78.5 | 82.4 | 85.8 | 87.2 | 87.4 | 87.4 | 150. | 160. | |
| 315 | 64.9 | 68.0 | 69.5 | 71.4 | 73.2 | 75.7 | 75.9 | 78.6 | 82.5 | 85.1 | 86.3 | 86.3 | 86.3 | 150. | 160. | |
| 400 | 66.0 | 68.5 | 70.5 | 71.9 | 73.2 | 74.9 | 76.7 | 79.1 | 82.5 | 83.8 | 84.9 | 84.5 | 84.5 | 150. | 160. | |
| 500 | 64.4 | 67.4 | 69.7 | 72.1 | 74.0 | 75.2 | 76.2 | 78.6 | 82.7 | 82.7 | 84.0 | 82.9 | 82.9 | 150. | 160. | |
| 630 | 64.4 | 67.6 | 69.2 | 71.2 | 73.5 | 74.3 | 76.3 | 78.9 | 82.2 | 82.4 | 83.5 | 80.6 | 80.6 | 150. | 160. | |
| 800 | 62.4 | 65.9 | 68.2 | 70.4 | 72.3 | 74.1 | 75.5 | 78.6 | 81.4 | 81.0 | 82.2 | 77.7 | 77.7 | 150. | 160. | |
| 1000 | 60.9 | 64.6 | 68.3 | 70.3 | 72.2 | 73.5 | 75.0 | 78.1 | 80.0 | 81.0 | 82.2 | 77.7 | 77.7 | 150. | 160. | |
| 1250 | 59.0 | 64.4 | 67.4 | 69.3 | 72.0 | 73.8 | 74.5 | 77.1 | 79.2 | 78.1 | 78.9 | 73.4 | 73.4 | 150. | 160. | |
| 1600 | 57.2 | 63.3 | 66.2 | 68.5 | 71.0 | 72.6 | 74.2 | 75.7 | 77.7 | 76.9 | 76.4 | 70.1 | 70.1 | 150. | 160. | |
| 2000 | 53.0 | 61.7 | 66.2 | 68.1 | 70.3 | 71.9 | 73.6 | 75.7 | 73.7 | 73.3 | 73.3 | 66.7 | 66.7 | 150. | 160. | |
| 2500 | 47.7 | 56.6 | 62.9 | 66.2 | 67.7 | 67.8 | 69.1 | 70.5 | 71.4 | 69.4 | 68.1 | 60.8 | 60.8 | 150. | 160. | |
| 3150 | 40.6 | 50.5 | 57.2 | 61.0 | 64.6 | 64.8 | 65.2 | 65.5 | 67.9 | 63.6 | 61.9 | 53.4 | 53.4 | 150. | 160. | |
| 4000 | 30.5 | 41.4 | 49.6 | 53.4 | 58.2 | 58.0 | 59.3 | 57.6 | 58.6 | 54.0 | 50.0 | 39.0 | 39.0 | 150. | 160. | |
| 5000 | 24.4 | 36.8 | 46.6 | 49.3 | 52.7 | 53.2 | 53.7 | 52.3 | 53.8 | 48.1 | 44.9 | 30.2 | 30.2 | 150. | 160. | |
| 6300 | 9.7 | 24.5 | 35.2 | 40.4 | 46.6 | 43.6 | 44.5 | 43.6 | 41.9 | 35.5 | 29.5 | 12.2 | 12.2 | 150. | 160. | |
| 8000 | 4.7 | 17.6 | 24.7 | 28.1 | 28.7 | 28.9 | 27.5 | 26.3 | 26.3 | 16.8 | 7.9 | 3.7 | 3.7 | 150. | 160. | |
| 10000 | | | 1.2 | 4.6 | 6.8 | 7.7 | 7.7 | 7.7 | 7.7 | 3.7 | 3.7 | 3.7 | 3.7 | 150. | 160. | |
| 12500 | | | | | | | | | | | | | | 150. | 160. | |
| 16000 | | | | | | | | | | | | | | 150. | 160. | |
| OVERALL CALCULATED | 75.4 | 78.4 | 80.6 | 82.4 | 84.3 | 85.7 | 86.9 | 89.3 | 92.7 | 95.6 | 97.7 | 96.3 | 96.3 | 90.9 | 92.9 | |
| PNDB | 80.0 | 84.4 | 88.1 | 90.3 | 92.5 | 93.4 | 94.8 | 96.5 | 99.2 | 100.1 | 101.4 | 99.4 | 99.4 | 92.9 | 92.9 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION: 3113 TEST POINT: 731.5m(2400ft.) SIDELINE SIZE: FULL-33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 12.5

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|--|---------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|----|----|----|-------|
| 100 | 76.9 | 86.2 | 84.2 | 85.0 | 86.5 | 87.2 | 87.5 | 88.5 | 88.9 | 92.0 | 99.9 | 94.9 | 96.2 | | | | | 133.6 |
| 125 | 76.8 | 80.6 | 82.4 | 84.4 | 86.0 | 87.1 | 87.2 | 89.2 | 87.4 | 87.4 | 87.7 | 98.1 | 97.3 | 97.4 | | | | 133.0 |
| 160 | 77.0 | 80.2 | 82.9 | 83.8 | 84.2 | 84.3 | 86.3 | 86.5 | 88.9 | 94.0 | 101.4 | 98.9 | 99.9 | | | | | 135.1 |
| 200 | 80.3 | 80.8 | 81.3 | 83.8 | 84.4 | 85.5 | 86.7 | 91.1 | 92.5 | 96.1 | 102.8 | 103.8 | 104.5 | | | | | 138.2 |
| 250 | 80.1 | 82.1 | 83.1 | 83.1 | 85.0 | 86.6 | 89.0 | 91.1 | 93.6 | 98.7 | 105.4 | 105.8 | 105.8 | | | | | 140.2 |
| 315 | 81.7 | 84.7 | 83.9 | 85.5 | 87.6 | 88.7 | 90.1 | 92.5 | 96.2 | 101.3 | 107.2 | 109.1 | 108.2 | | | | | 142.7 |
| 400 | 83.9 | 86.7 | 86.5 | 86.5 | 87.8 | 89.7 | 90.8 | 94.0 | 98.7 | 104.3 | 110.0 | 110.9 | 108.7 | | | | | 144.7 |
| 500 | 84.3 | 85.0 | 86.8 | 87.5 | 89.2 | 91.0 | 92.4 | 95.1 | 99.5 | 106.9 | 111.8 | 112.5 | 109.5 | | | | | 146.4 |
| 630 | 85.9 | 87.1 | 87.6 | 88.9 | 90.3 | 91.6 | 93.8 | 96.7 | 101.4 | 107.7 | 112.4 | 113.1 | 110.1 | | | | | 147.1 |
| 800 | 87.4 | 88.2 | 88.9 | 90.4 | 91.8 | 93.2 | 94.8 | 97.9 | 102.7 | 108.5 | 112.4 | 113.4 | 110.9 | | | | | 147.5 |
| 1000 | 90.2 | 90.7 | 91.2 | 92.0 | 93.4 | 94.5 | 95.9 | 98.8 | 103.2 | 107.8 | 111.8 | 111.7 | 110.0 | | | | | 146.7 |
| 1250 | 89.5 | 90.8 | 92.6 | 92.4 | 93.2 | 95.6 | 96.4 | 99.6 | 104.6 | 107.9 | 111.1 | 111.8 | 109.1 | | | | | 146.6 |
| 1600 | 89.4 | 90.7 | 90.7 | 91.7 | 93.6 | 95.7 | 96.8 | 99.5 | 104.7 | 107.8 | 111.0 | 111.6 | 108.7 | | | | | 146.5 |
| 2000 | 89.7 | 90.7 | 92.2 | 92.3 | 93.6 | 95.7 | 97.3 | 100.5 | 105.0 | 108.3 | 110.0 | 110.4 | 107.0 | | | | | 146.0 |
| 2500 | 90.0 | 90.3 | 91.6 | 93.1 | 95.0 | 95.6 | 97.0 | 100.4 | 105.6 | 107.2 | 109.1 | 109.8 | 106.1 | | | | | 145.4 |
| 3150 | 90.0 | 91.0 | 92.1 | 92.6 | 94.4 | 95.8 | 97.7 | 102.1 | 105.6 | 107.4 | 109.6 | 109.3 | 104.8 | | | | | 145.6 |
| 4000 | 88.8 | 90.6 | 91.3 | 92.6 | 93.2 | 95.6 | 97.4 | 101.9 | 104.8 | 107.4 | 108.6 | 107.5 | 102.6 | | | | | 144.9 |
| 5000 | 89.6 | 90.7 | 91.7 | 93.0 | 94.1 | 96.2 | 97.8 | 102.0 | 104.7 | 105.8 | 108.3 | 106.4 | 102.2 | | | | | 144.4 |
| 6300 | 89.2 | 92.5 | 92.6 | 93.1 | 95.2 | 96.8 | 98.2 | 101.6 | 104.8 | 106.2 | 107.1 | 106.8 | 103.0 | | | | | 144.3 |
| 8000 | 90.0 | 93.8 | 92.6 | 93.6 | 95.5 | 97.1 | 99.0 | 101.6 | 104.6 | 105.5 | 105.9 | 106.1 | 103.1 | | | | | 143.8 |
| 10000 | 89.7 | 96.0 | 94.4 | 94.6 | 95.9 | 96.5 | 98.2 | 101.1 | 103.9 | 104.0 | 104.4 | 105.3 | 102.5 | | | | | 142.9 |
| 12500 | 88.3 | 94.8 | 94.2 | 95.2 | 96.5 | 96.6 | 97.6 | 99.4 | 101.7 | 101.9 | 102.5 | 104.3 | 101.6 | | | | | 142.2 |
| 16000 | 86.1 | 92.9 | 93.1 | 94.8 | 95.8 | 96.2 | 96.6 | 98.0 | 100.6 | 99.9 | 101.0 | 101.7 | 99.7 | | | | | 140.1 |
| 20000 | 82.6 | 88.7 | 89.3 | 91.4 | 94.2 | 94.0 | 95.3 | 94.4 | 97.5 | 96.1 | 96.9 | 97.6 | 96.5 | | | | | 138.4 |
| 25000 | 79.0 | 86.5 | 85.9 | 87.7 | 90.7 | 90.4 | 91.8 | 91.2 | 95.1 | 92.8 | 94.9 | 93.4 | 92.7 | | | | | 138.3 |
| 31500 | 76.5 | 83.6 | 84.6 | 86.3 | 88.5 | 88.2 | 89.2 | 90.2 | 91.3 | 90.4 | 92.1 | 92.2 | 90.7 | | | | | 137.4 |
| 40000 | 71.2 | 78.6 | 81.0 | 82.2 | 83.3 | 84.1 | 84.5 | 86.0 | 87.4 | 87.1 | 89.1 | 87.2 | 86.7 | | | | | 136.0 |
| 50000 | 63.8 | 72.0 | 74.5 | 76.0 | 75.4 | 77.2 | 77.7 | 79.8 | 81.0 | 81.5 | 86.1 | 80.8 | 79.4 | | | | | 136.5 |
| 63000 | 57.0 | 64.5 | 68.7 | 69.6 | 68.6 | 70.0 | 70.2 | 72.4 | 75.2 | 75.8 | 81.6 | 74.0 | 73.2 | | | | | 139.4 |
| 80000 | 50.5 | 57.9 | 63.1 | 62.2 | 61.1 | 63.7 | 65.1 | 66.2 | 69.5 | 70.1 | 74.4 | 67.7 | 69.4 | | | | | 158.4 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 101.3 104.3 104.5 105.4 106.9 108.1 109.6 112.6 116.3 119.1 122.3 122.8 120.2 | | | | | | | | | | | | | | | | | | |
| PN08 113.7 115.4 116.1 116.8 118.4 119.9 121.5 125.2 128.9 131.4 134.1 134.1 130.8 | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3114 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS | | | | SCALED FROM MODEL DATA | | | | PROC. DATE - MONTH 8 DAY 26 HR. 16.7 | | | | |
|--------|---------------------------------|-------|-------|-------|------------------------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 83.4 | 85.4 | 86.4 | 85.5 | 88.3 | 89.9 | 92.3 | 94.5 | 96.9 | 102.0 | 103.7 | 109.1 | 109.2 |
| 63 | 85.0 | 88.0 | 87.3 | 88.8 | 90.9 | 92.0 | 93.4 | 95.8 | 99.5 | 104.0 | 110.5 | 112.5 | 111.5 |
| 80 | 87.3 | 88.0 | 89.8 | 89.8 | 91.2 | 93.0 | 94.2 | 97.3 | 102.0 | 107.6 | 113.3 | 114.3 | 112.0 |
| 100 | 87.6 | 88.4 | 90.1 | 90.7 | 92.5 | 94.4 | 95.8 | 98.4 | 102.9 | 110.2 | 115.2 | 115.8 | 112.9 |
| 125 | 89.2 | 90.5 | 91.0 | 92.3 | 93.6 | 95.0 | 97.1 | 100.0 | 104.7 | 111.0 | 115.8 | 116.4 | 113.5 |
| 160 | 90.7 | 91.5 | 92.2 | 93.8 | 95.1 | 96.5 | 98.1 | 101.3 | 106.0 | 111.8 | 115.8 | 116.7 | 114.2 |
| 200 | 93.5 | 94.1 | 94.6 | 95.4 | 96.7 | 97.8 | 99.2 | 102.1 | 106.6 | 111.1 | 115.1 | 115.0 | 113.3 |
| 250 | 92.9 | 94.2 | 95.9 | 95.7 | 96.5 | 98.9 | 99.8 | 103.0 | 107.9 | 111.2 | 114.4 | 115.1 | 112.4 |
| 315 | 92.7 | 94.0 | 94.0 | 95.1 | 96.9 | 99.0 | 100.2 | 102.8 | 108.0 | 111.1 | 114.3 | 115.0 | 112.0 |
| 400 | 93.0 | 94.1 | 95.6 | 95.6 | 97.0 | 99.1 | 100.7 | 103.9 | 108.3 | 111.7 | 113.4 | 113.8 | 110.3 |
| 500 | 93.4 | 93.7 | 95.0 | 96.5 | 98.3 | 98.9 | 100.3 | 103.7 | 109.0 | 110.5 | 112.5 | 113.2 | 109.4 |
| 630 | 94.4 | 94.4 | 95.5 | 96.0 | 97.8 | 99.2 | 101.1 | 105.5 | 109.0 | 110.8 | 113.0 | 112.7 | 108.2 |
| 800 | 92.2 | 94.0 | 94.8 | 96.1 | 96.7 | 99.0 | 100.9 | 105.3 | 108.3 | 110.9 | 112.1 | 111.0 | 106.0 |
| 1000 | 93.1 | 94.2 | 95.2 | 96.5 | 97.5 | 99.7 | 101.3 | 105.5 | 108.2 | 109.3 | 111.7 | 109.9 | 105.7 |
| 1250 | 92.8 | 96.1 | 96.1 | 96.6 | 98.7 | 100.3 | 101.7 | 105.1 | 108.2 | 109.3 | 110.7 | 110.3 | 106.6 |
| 1600 | 93.7 | 97.5 | 96.4 | 97.4 | 99.2 | 100.8 | 102.7 | 105.4 | 108.4 | 109.2 | 109.7 | 109.8 | 106.8 |
| 2000 | 93.6 | 100.0 | 98.3 | 98.5 | 99.9 | 100.5 | 102.1 | 105.0 | 107.8 | 108.0 | 108.4 | 109.2 | 106.5 |
| 2500 | 92.6 | 99.1 | 98.5 | 99.4 | 100.8 | 100.9 | 101.9 | 103.7 | 106.0 | 106.2 | 106.8 | 108.6 | 105.9 |
| 3150 | 91.0 | 97.8 | 98.0 | 99.6 | 100.7 | 101.0 | 101.5 | 102.9 | 105.5 | 104.7 | 105.8 | 106.6 | 104.5 |
| 4000 | 88.2 | 94.2 | 94.9 | 97.0 | 99.8 | 99.6 | 100.9 | 100.0 | 103.1 | 101.6 | 102.5 | 103.1 | 102.0 |
| 5000 | 85.8 | 93.4 | 92.8 | 94.6 | 97.5 | 97.3 | 98.7 | 98.0 | 102.0 | 99.6 | 101.7 | 100.2 | 99.5 |
| 6300 | 85.0 | 92.1 | 93.0 | 94.7 | 97.0 | 96.7 | 97.7 | 98.0 | 100.0 | 98.8 | 100.5 | 100.6 | 99.1 |
| 8000 | 82.0 | 89.3 | 91.7 | 93.0 | 94.8 | 94.8 | 95.3 | 96.8 | 98.2 | 97.8 | 99.9 | 98.0 | 97.5 |
| 10000 | 77.6 | 85.8 | 88.3 | 89.8 | 89.2 | 91.0 | 91.5 | 93.6 | 94.8 | 95.3 | 99.9 | 94.6 | 93.2 |
| 12500 | 75.3 | 82.8 | 87.0 | 87.9 | 86.9 | 88.3 | 88.4 | 90.7 | 93.5 | 94.1 | 99.9 | 92.5 | 91.5 |
| 16000 | 75.1 | 82.5 | 87.7 | 86.8 | 85.7 | 88.3 | 89.7 | 90.8 | 94.2 | 94.7 | 99.0 | 92.5 | 94.0 |
| PHDB | 116.4 | 121.4 | 121.6 | 122.9 | 124.3 | 125.0 | 126.0 | 128.0 | 131.0 | 132.0 | 133.9 | 134.5 | 131.8 |


OVERALL CALCULATED 104.9 108.3 108.5 109.5 111.0 112.1 113.5 116.3 119.9 122.6 125.7 126.1 123.6 1173.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 314 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------------------|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | (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) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| FREQ. | 50 | 55.2 | 58.8 | 60.9 | 61.7 | 63.9 | 65.7 | 67.9 | 69.7 | 71.4 | 73.4 | 75.4 | 78.7 | 75.3 |
| | 63 | 56.7 | 61.3 | 61.7 | 64.0 | 66.5 | 67.7 | 69.0 | 71.0 | 73.9 | 77.9 | 82.3 | 82.0 | 77.5 |
| | 80 | 58.9 | 61.3 | 64.2 | 64.9 | 66.7 | 68.7 | 69.7 | 72.4 | 76.4 | 80.9 | 85.0 | 83.6 | 77.9 |
| SIDELINE 2400. FT.
(731.52 M) | 100 | 59.2 | 61.5 | 64.4 | 65.7 | 68.0 | 70.0 | 71.2 | 73.4 | 77.2 | 83.4 | 86.7 | 85.1 | 78.5 |
| NFA (1. RPM) | 125 | 60.6 | 63.5 | 65.2 | 67.2 | 69.0 | 70.5 | 72.5 | 75.0 | 78.9 | 84.1 | 87.2 | 85.5 | 78.8 |
| (0. RAD/SEC) | 150 | 62.0 | 64.4 | 66.3 | 68.0 | 70.4 | 71.9 | 73.4 | 76.1 | 80.1 | 84.7 | 87.2 | 85.5 | 79.5 |
| YFK (1. RPM) | 200 | 64.0 | 66.8 | 68.5 | 70.0 | 71.8 | 73.1 | 74.3 | 76.8 | 80.5 | 83.9 | 86.2 | 83.6 | 77.9 |
| (0. RAD/SEC) | 250 | 63.7 | 66.7 | 69.6 | 70.2 | 71.5 | 74.0 | 74.8 | 77.5 | 81.6 | 83.8 | 85.2 | 83.3 | 76.5 |
| NFD (7500. RPM) | 315 | 63.2 | 66.3 | 67.5 | 69.4 | 71.7 | 73.9 | 74.9 | 77.1 | 81.5 | 83.4 | 84.8 | 82.8 | 75.5 |
| (785. RAD/SEC) | 400 | 63.0 | 66.0 | 68.7 | 69.6 | 71.4 | 73.7 | 75.2 | 77.9 | 81.5 | 83.5 | 83.4 | 81.0 | 73.0 |
| AIRFLOW RATIO | 500 | 62.9 | 65.1 | 67.7 | 70.1 | 72.5 | 73.2 | 74.5 | 77.6 | 81.7 | 82.0 | 82.0 | 79.7 | 71.1 |
| WF/PM 5.50 | 630 | 62.2 | 65.3 | 67.7 | 69.2 | 71.5 | 73.1 | 74.8 | 78.7 | 81.2 | 81.7 | 81.8 | 78.3 | 68.5 |
| VEHICLE CELL41 | 800 | 60.1 | 64.1 | 66.4 | 68.6 | 69.8 | 72.3 | 74.0 | 77.9 | 79.9 | 81.0 | 80.0 | 75.5 | 64.0 |
| CONFIG NE42 | 1000 | 59.9 | 63.4 | 66.0 | 68.3 | 70.0 | 72.3 | 73.7 | 77.3 | 79.0 | 78.5 | 78.5 | 73.0 | 62.2 |
| LOC C41 ANECH CH | 1250 | 58.2 | 64.2 | 66.0 | 67.6 | 70.3 | 72.1 | 73.3 | 76.1 | 78.2 | 77.8 | 76.1 | 71.6 | 60.5 |
| DATE 06-02-76 | 1600 | 57.2 | 64.0 | 64.8 | 67.0 | 69.5 | 71.3 | 73.0 | 75.0 | 76.8 | 75.7 | 73.2 | 68.6 | 57.0 |
| RUN CONF3VELDEPN | 2000 | 56.8 | 64.5 | 65.0 | 66.6 | 68.7 | 69.6 | 71.0 | 73.1 | 74.5 | 72.5 | 69.6 | 65.0 | 52.2 |
| TAPE #31140 | 2500 | 50.4 | 60.9 | 62.7 | 65.3 | 67.5 | 67.8 | 68.6 | 69.5 | 70.2 | 67.9 | 64.7 | 60.1 | 45.2 |
| ---FAN TIP SPEED FT/SEC | 3150 | 43.5 | 55.0 | 58.3 | 61.9 | 63.9 | 64.6 | 64.7 | 65.1 | 65.8 | 62.0 | 58.3 | 51.0 | 33.5 |
| | 4000 | 32.6 | 44.8 | 49.3 | 53.8 | 57.9 | 58.1 | 59.0 | 56.8 | 57.5 | 52.2 | 46.9 | 37.1 | 15.5 |
| | 5000 | 25.5 | 40.0 | 43.7 | 48.2 | 52.7 | 52.8 | 53.8 | 51.7 | 53.0 | 46.3 | 41.4 | 28.1 | 4.1 |
| | 6300 | 10.9 | 27.3 | 33.9 | 39.1 | 43.3 | 43.6 | 44.0 | 43.1 | 40.9 | 34.0 | 26.5 | 10.7 | |
| | 8000 | 7.0 | 17.2 | 23.3 | 26.9 | 28.5 | 28.2 | 27.1 | 23.7 | 15.5 | 4.7 | | | |
| | 10000 | | | 0.4 | 3.3 | 6.3 | 5.6 | 4.1 | | | | | | |
| | 12500 | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 73.4 | 76.9 | 78.9 | 80.6 | 82.6 | 84.3 | 85.7 | 86.4 | 91.7 | 94.1 | 95.9 | 94.0 | 87.6 |
| PND8 | | 78.4 | 85.1 | 86.8 | 89.0 | 91.3 | 92.4 | 93.6 | 95.8 | 98.1 | 99.1 | 99.3 | 96.6 | 88.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION  TEST POINT 3/14 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO EGA | PROC. DATE - MONTH 8 DAY 26 HR. 12.4 | | | | | | | | | | | | | | | | |
|--------------------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | HUM. DAY - JENOTS | | | | | | | | | | | | | | | | |
| RADIAL (12. M) | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PUL |
| VEHICLE CELL41 | | FREQ. (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)(3.00)(3.15) | | | | | | | | | | | | | | | | |
| CONFIG NC42 | | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0 | 0 | 0 | 0 | |
| LOC C41 ANECH CH | | 77.6 | 86.4 | 84.2 | 85.7 | 87.0 | 87.4 | 87.3 | 88.7 | 89.4 | 91.5 | 95.2 | 94.4 | 97.4 | 132.2 | | | |
| DATE 06-02-76 | | 77.6 | 80.4 | 82.6 | 84.9 | 86.7 | 87.1 | 87.2 | 88.4 | 87.4 | 87.2 | 88.4 | 87.4 | 87.1 | 87.2 | 87.2 | 87.2 | 87.2 |
| RUN CONF3VELDEPN | | 80.3 | 80.3 | 81.8 | 83.2 | 84.0 | 84.4 | 84.8 | 86.2 | 88.4 | 93.5 | 97.4 | 98.4 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 |
| TAPE X31150 | | 79.8 | 82.6 | 83.8 | 83.4 | 85.2 | 86.3 | 86.4 | 88.8 | 90.6 | 93.6 | 97.9 | 99.8 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 |
| BAR 29.4 HG | | 81.2 | 85.2 | 83.7 | 86.0 | 88.1 | 88.7 | 89.6 | 92.0 | 95.4 | 100.5 | 103.1 | 105.3 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 |
| (99347. N/M2) | | 84.0 | 84.5 | 86.2 | 86.5 | 88.1 | 89.5 | 90.1 | 93.0 | 97.0 | 103.5 | 107.7 | 109.7 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 |
| TAMB 64. DEG F | | 85.4 | 86.4 | 86.6 | 88.4 | 90.3 | 91.4 | 92.7 | 94.3 | 96.7 | 101.7 | 106.5 | 110.8 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 |
| (291. DEG K) | | 89.0 | 89.7 | 90.7 | 91.3 | 92.9 | 93.5 | 95.4 | 98.0 | 102.0 | 106.6 | 108.0 | 107.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 |
| TWET 61. DEG F | | 89.6 | 89.6 | 91.3 | 91.9 | 92.9 | 94.3 | 95.9 | 98.9 | 103.3 | 107.1 | 107.6 | 108.0 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 |
| (289. DEG K) | | 90.4 | 90.4 | 90.4 | 92.0 | 93.1 | 95.4 | 96.6 | 99.0 | 104.2 | 107.3 | 107.6 | 107.9 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| HACT12.82 GM/M3 | | 91.0 | 91.0 | 91.7 | 92.3 | 93.8 | 95.5 | 97.6 | 100.3 | 104.2 | 107.3 | 108.0 | 107.9 | 100.3 | 100.3 | 100.3 | 100.3 | 100.3 |
| (-0.1282 KG/M3) | | 92.0 | 92.0 | 92.1 | 93.1 | 95.4 | 95.8 | 97.9 | 100.6 | 105.6 | 106.9 | 106.9 | 107.5 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 |
| JET | | 90.6 | 92.7 | 92.7 | 94.0 | 96.1 | 96.7 | 98.6 | 101.7 | 105.0 | 106.1 | 107.0 | 106.2 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 |
| DIAMETER RATIO | | 91.2 | 95.5 | 94.8 | 96.6 | 96.2 | 97.8 | 99.2 | 101.6 | 104.6 | 106.2 | 106.6 | 105.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 |
| DF/DM 1 | | 92.0 | 97.1 | 95.6 | 95.9 | 96.7 | 97.6 | 99.5 | 101.9 | 104.4 | 106.5 | 105.9 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 |
| | | 90.9 | 98.0 | 98.1 | 97.8 | 97.4 | 96.7 | 98.4 | 101.6 | 103.8 | 105.0 | 105.6 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 |
| | | 88.3 | 95.0 | 95.7 | 97.6 | 97.9 | 97.3 | 97.6 | 99.9 | 102.2 | 102.8 | 103.7 | 102.5 | 102.5 | 102.5 | 102.5 | 102.5 | 102.5 |
| | | 86.3 | 92.6 | 93.0 | 95.7 | 97.0 | 96.9 | 97.3 | 98.2 | 101.0 | 101.6 | 101.6 | 101.1 | 101.1 | 101.1 | 101.1 | 101.1 | 101.1 |
| | | 83.1 | 89.6 | 91.0 | 92.1 | 95.1 | 94.5 | 95.7 | 95.1 | 97.4 | 97.2 | 97.8 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 |
| | | 80.4 | 87.9 | 87.0 | 89.6 | 91.8 | 91.3 | 92.1 | 91.8 | 93.5 | 93.6 | 96.0 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 |
| | | 77.9 | 85.5 | 86.4 | 87.8 | 90.1 | 89.1 | 89.5 | 90.8 | 92.6 | 91.2 | 92.1 | 92.3 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 |
| | | 73.3 | 80.3 | 82.7 | 84.2 | 85.0 | 85.1 | 85.0 | 87.0 | 87.9 | 88.5 | 88.8 | 87.7 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 |
| | | 50000 | 67.6 | 74.5 | 77.4 | 78.2 | 78.4 | 78.1 | 80.4 | 81.9 | 82.1 | 84.2 | 81.2 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 |
| | | 63000 | 61.5 | 67.4 | 71.0 | 70.7 | 70.9 | 71.5 | 73.5 | 75.2 | 76.8 | 78.1 | 74.3 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 |
| | | 80000 | 57.4 | 61.9 | 65.7 | 64.6 | 65.5 | 65.6 | 67.2 | 70.2 | 72.9 | 73.1 | 66.9 | 68.4 | 68.4 | 68.4 | 68.4 | 68.4 |
| OVERALL MEASURED | | 101.9 | 105.5 | 105.6 | 106.5 | 107.7 | 108.3 | 109.8 | 112.3 | 115.9 | 118.5 | 119.9 | 120.6 | 120.3 | 120.3 | 120.3 | 120.3 | 120.3 |
| OVERALL CALCULATED | | 114.4 | 116.8 | 116.8 | 117.4 | 119.1 | 120.0 | 121.7 | 124.7 | 128.4 | 130.9 | 132.1 | 132.3 | 131.8 | 131.8 | 131.8 | 131.8 | 131.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/15 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

| NO EGA | PROC. DATE - MONTH 8 DAY 26 MR. 16.7 | | | | | | | | | | | | | |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS | | | | | | | | | | | | | |
| RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PHL |
| 50 | 83.1 | 85.9 | 87.2 | 86.7 | 88.5 | 89.7 | 92.0 | 94.0 | 96.9 | 101.2 | 106.4 | 108.6 | 109.7 | 154.2 |
| 63 | 84.5 | 88.5 | 87.0 | 89.3 | 91.4 | 92.8 | 93.4 | 96.3 | 98.8 | 103.8 | 108.3 | 112.0 | 112.0 | 156.8 |
| 80 | 86.8 | 87.8 | 89.5 | 89.8 | 91.4 | 92.8 | 93.4 | 96.3 | 98.8 | 103.8 | 108.3 | 112.0 | 112.0 | 158.3 |
| 100 | 87.3 | 87.9 | 89.4 | 90.2 | 92.0 | 93.6 | 94.7 | 96.4 | 99.0 | 103.2 | 108.8 | 111.8 | 113.4 | 159.4 |
| 125 | 88.7 | 89.7 | 90.0 | 91.8 | 93.6 | 94.7 | 96.4 | 99.0 | 103.2 | 108.8 | 111.8 | 114.2 | 113.0 | 159.5 |
| 160 | 90.0 | 91.0 | 91.7 | 93.3 | 94.9 | 96.0 | 97.6 | 100.0 | 105.0 | 109.8 | 112.0 | 113.5 | 112.5 | 159.6 |
| 200 | 92.3 | 93.1 | 94.1 | 94.6 | 96.2 | 96.8 | 98.7 | 101.4 | 105.3 | 109.9 | 111.6 | 110.8 | 111.8 | 158.9 |
| 250 | 91.9 | 92.9 | 94.7 | 95.2 | 96.3 | 97.7 | 99.3 | 102.2 | 106.7 | 110.5 | 110.9 | 111.4 | 111.4 | 159.2 |
| 315 | 93.0 | 93.8 | 93.8 | 95.3 | 96.4 | 98.8 | 99.9 | 102.3 | 107.5 | 110.6 | 111.1 | 111.0 | 111.3 | 159.3 |
| 400 | 93.3 | 94.3 | 95.1 | 95.6 | 97.2 | 98.8 | 101.0 | 103.6 | 107.6 | 110.7 | 111.4 | 111.3 | 111.1 | 159.6 |
| 500 | 93.9 | 94.4 | 95.5 | 96.7 | 98.6 | 99.2 | 100.3 | 104.0 | 109.0 | 110.3 | 110.2 | 110.9 | 110.4 | 159.4 |
| 630 | 94.4 | 95.4 | 96.5 | 96.5 | 98.8 | 99.2 | 101.3 | 104.7 | 108.5 | 110.3 | 111.3 | 110.9 | 110.2 | 159.6 |
| 800 | 93.7 | 94.8 | 95.5 | 96.3 | 97.9 | 99.5 | 101.4 | 104.8 | 108.3 | 110.4 | 111.0 | 110.0 | 108.3 | 159.1 |
| 1000 | 93.9 | 96.2 | 96.2 | 97.5 | 98.5 | 100.2 | 102.0 | 105.2 | 108.4 | 109.5 | 110.5 | 109.6 | 108.2 | 159.1 |
| 1250 | 94.8 | 99.1 | 98.4 | 98.1 | 99.7 | 101.3 | 102.7 | 105.1 | 108.1 | 109.7 | 110.2 | 109.1 | 108.1 | 159.2 |
| 1600 | 95.7 | 100.8 | 99.3 | 99.6 | 100.4 | 101.3 | 103.2 | 105.6 | 108.1 | 110.2 | 109.6 | 109.3 | 108.5 | 159.3 |
| 2000 | 94.8 | 101.9 | 102.0 | 101.8 | 101.3 | 100.7 | 102.3 | 105.5 | 107.8 | 108.9 | 109.6 | 109.0 | 108.2 | 159.4 |
| 2500 | 92.6 | 99.3 | 95.9 | 101.9 | 102.2 | 101.6 | 101.9 | 104.2 | 106.4 | 107.1 | 108.0 | 107.1 | 106.8 | 158.3 |
| 3150 | 91.2 | 97.5 | 97.9 | 100.6 | 101.9 | 101.7 | 102.2 | 103.1 | 105.9 | 105.9 | 106.5 | 106.5 | 106.0 | 157.0 |
| 4000 | 88.6 | 95.2 | 96.5 | 97.7 | 100.7 | 100.6 | 101.3 | 100.6 | 103.0 | 102.8 | 103.4 | 102.8 | 102.9 | 155.5 |
| 5000 | 87.2 | 94.7 | 93.9 | 96.4 | 96.7 | 98.1 | 98.9 | 98.6 | 102.3 | 100.5 | 102.8 | 100.6 | 100.6 | 154.0 |
| 6300 | 86.3 | 93.9 | 94.8 | 96.3 | 98.5 | 97.5 | 98.0 | 99.2 | 101.0 | 99.6 | 100.6 | 100.7 | 99.4 | 153.9 |
| 8000 | 84.0 | 91.1 | 93.5 | 95.0 | 95.6 | 95.8 | 97.5 | 98.7 | 99.3 | 99.6 | 98.5 | 97.8 | 97.8 | 153.1 |
| 10000 | 81.4 | 88.3 | 91.2 | 92.0 | 93.1 | 92.2 | 91.9 | 94.2 | 95.7 | 95.9 | 98.1 | 95.0 | 93.9 | 151.2 |
| 12500 | 79.7 | 85.7 | 89.3 | 89.7 | 89.0 | 89.2 | 89.2 | 89.8 | 91.8 | 93.5 | 95.1 | 96.4 | 92.6 | 92.1 |
| 16000 | 82.0 | 86.5 | 92.1 | 90.3 | 89.2 | 90.1 | 90.0 | 91.8 | 94.9 | 97.6 | 97.7 | 91.5 | 93.0 | 151.0 |
| OVERALL CALCULATED | 105.5 | 109.5 | 109.8 | 110.7 | 111.9 | 112.4 | 113.7 | 116.1 | 119.6 | 122.1 | 123.4 | 124.0 | 123.5 | 155.2 |
| PMD8 | 117.0 | 122.3 | 122.7 | 124.1 | 125.3 | 125.5 | 126.4 | 128.1 | 131.1 | 132.3 | 133.3 | 133.1 | 132.6 | 172.1 |

DIAMETER RATIO 5.50

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/15 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 16.7

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (39. DEG. F, 70 PERCENT REL. HUM. DAY) | | | ANGLE FROM INLET IN DEGREES (AND RADIAN) | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--|-------|---|------|------|--|------|------|------|------|------|------|------|
| | | 40. | 50. | 60. | | | | | | | | |
| | 50 | (0.70)(0.87)(1.05)(1.22)(1.40) | 59.3 | 61.6 | 64.2 | 67.0 | 69.2 | 71.4 | 74.6 | 78.3 | 82.0 | 85.8 |
| | 63 | | 58.4 | 61.1 | 63.9 | 66.9 | 69.5 | 71.4 | 74.7 | 78.0 | 81.5 | 85.0 |
| | 80 | | 58.9 | 61.0 | 63.7 | 66.5 | 69.0 | 71.4 | 74.7 | 78.0 | 81.5 | 85.0 |
| | 100 | | 60.1 | 62.8 | 65.2 | 67.5 | 69.2 | 71.4 | 74.7 | 78.0 | 81.5 | 85.0 |
| MFA (0. RAD/SEC) | 160 | | 61.2 | 63.9 | 65.8 | 68.1 | 70.1 | 71.4 | 74.7 | 78.0 | 81.5 | 85.0 |
| NFK (1. RPM) | 200 | | 63.3 | 65.8 | 68.0 | 69.3 | 71.3 | 72.1 | 73.8 | 76.1 | 79.2 | 82.3 |
| NFO (0. RAD/SEC) | 250 | | 62.7 | 65.4 | 68.4 | 69.7 | 71.3 | 72.8 | 74.3 | 76.7 | 80.4 | 83.0 |
| (7500. RPM) | 315 | | 63.4 | 66.0 | 67.3 | 69.6 | 71.2 | 73.7 | 74.7 | 76.6 | 81.0 | 82.9 |
| (785. RAD/SEC) | 400 | | 63.3 | 66.2 | 68.2 | 69.6 | 71.7 | 73.4 | 75.4 | 77.6 | 81.7 | 82.5 |
| AIRFLOW RATIO | 500 | | 63.6 | 65.9 | 68.2 | 70.4 | 72.7 | 73.5 | 74.5 | 77.6 | 81.7 | 82.5 |
| (F/M 5.50) | 630 | | 63.2 | 66.3 | 67.7 | 69.7 | 72.5 | 73.1 | 75.0 | 77.9 | 80.7 | 81.2 |
| VEHICLE | 800 | | 61.6 | 64.9 | 67.2 | 68.9 | 71.0 | 72.8 | 74.5 | 77.4 | 79.9 | 80.5 |
| CONFIG | 1000 | | 60.7 | 65.4 | 67.0 | 69.3 | 71.0 | 72.8 | 74.5 | 77.1 | 79.3 | 78.8 |
| LOC C41 ANECH CH | 1250 | | 60.2 | 67.2 | 68.2 | 69.1 | 71.3 | 73.1 | 74.3 | 76.1 | 77.9 | 77.8 |
| DATE 06-02-76 | 1600 | | 59.2 | 67.3 | 67.8 | 69.2 | 70.7 | 71.8 | 73.5 | 75.2 | 76.5 | 76.7 |
| RUN CONF/SVELDEPH | 2000 | | 56.0 | 66.5 | 68.7 | 69.9 | 70.2 | 69.8 | 71.2 | 73.6 | 74.5 | 73.2 |
| TAPE X31150 | 2500 | | 50.6 | 61.1 | 64.2 | 67.7 | 68.9 | 68.6 | 70.0 | 70.7 | 68.9 | 65.9 |
| FAN TIP SPEED | 3150 | | 43.7 | 54.7 | 58.2 | 62.8 | 65.1 | 65.3 | 65.4 | 65.3 | 66.2 | 66.2 |
| (FT/SEC) | 4000 | | 33.0 | 45.7 | 50.9 | 54.5 | 58.8 | 59.4 | 57.4 | 57.4 | 53.3 | 47.8 |
| | 5000 | | 26.9 | 41.4 | 44.9 | 50.1 | 53.8 | 53.7 | 54.0 | 52.3 | 53.3 | 47.1 |
| | 6300 | | 12.3 | 29.1 | 35.7 | 40.7 | 44.9 | 44.4 | 44.3 | 43.7 | 42.0 | 36.8 |
| | 8000 | | | 8.7 | 18.9 | 25.3 | 28.7 | 29.5 | 28.7 | 28.1 | 24.2 | 16.9 |
| | 10000 | | | | | 2.6 | 5.2 | 7.4 | 6.0 | 4.8 | | 4.4 |
| | 12500 | | | | | | | | | | | |
| OVERALL CALCULATED | 16000 | | 73.5 | 77.5 | 79.3 | 81.1 | 83.0 | 84.3 | 85.7 | 88.0 | 91.1 | 93.0 |
| PND8 | | | 79.3 | 86.4 | 88.6 | 90.5 | 92.2 | 92.7 | 93.9 | 95.8 | 97.8 | 98.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/15 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. (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) | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 0. | 0. | 0. | 135.4 |
| NO EGA | 80 | 86.9 | 88.5 | 90.3 | 90.4 | 90.8 | 92.2 | 92.7 | 94.5 | 98.4 | 97.9 | 100.4 | 100.6 | 101.6 | 103.7 | 137.1 | 137.1 |
| RDG. NO. 40. FT. | 80 | 86.9 | 88.5 | 90.3 | 90.4 | 90.8 | 92.2 | 92.7 | 94.5 | 98.4 | 97.9 | 100.4 | 100.6 | 101.6 | 103.7 | 137.1 | 137.1 |
| RADIAL (12. M) | 100 | 80.1 | 89.2 | 86.9 | 88.5 | 90.3 | 90.4 | 90.8 | 92.2 | 92.7 | 94.5 | 98.4 | 97.9 | 100.4 | 100.6 | 103.7 | 135.7 |
| VEHICLE CELL41 | 125 | 79.1 | 83.6 | 85.1 | 87.4 | 89.2 | 90.1 | 91.2 | 92.7 | 90.4 | 90.4 | 98.9 | 100.6 | 101.6 | 103.7 | 137.1 | 137.1 |
| CONFIG NC41 | 160 | 79.6 | 81.9 | 85.9 | 85.5 | 86.3 | 86.4 | 86.8 | 89.5 | 90.9 | 96.5 | 100.9 | 102.1 | 103.7 | 137.1 | 137.1 | 140.9 |
| LOC C41 ANECH CH | 200 | 82.5 | 82.8 | 84.5 | 86.6 | 87.2 | 88.3 | 89.4 | 92.1 | 94.8 | 99.1 | 103.3 | 107.5 | 108.0 | 143.8 | 143.8 | 146.4 |
| DATE 06-01-76 | 250 | 81.8 | 84.8 | 86.3 | 86.4 | 87.7 | 89.3 | 92.0 | 94.1 | 96.6 | 101.7 | 108.1 | 109.8 | 110.3 | 146.4 | 146.4 | 148.4 |
| RUN CONFZEROFELW | 315 | 83.4 | 87.4 | 85.9 | 88.5 | 90.8 | 91.4 | 92.8 | 95.5 | 99.2 | 105.0 | 110.7 | 112.9 | 112.4 | 150.3 | 150.3 | 151.8 |
| TAPE X31500 | 400 | 85.7 | 87.8 | 87.7 | 89.0 | 90.8 | 92.2 | 93.3 | 96.8 | 101.2 | 108.3 | 113.7 | 114.4 | 113.0 | 153.6 | 153.6 | 154.3 |
| BAR 29.3 HG | 630 | 88.4 | 89.4 | 90.1 | 91.7 | 93.8 | 94.9 | 97.5 | 100.4 | 106.1 | 113.7 | 117.4 | 117.1 | 113.6 | 155.6 | 155.6 | 156.8 |
| (98975. N/M2) | 800 | 91.4 | 91.4 | 92.4 | 93.4 | 95.5 | 96.4 | 98.0 | 102.4 | 109.2 | 116.2 | 119.4 | 117.9 | 114.7 | 153.3 | 153.3 | 153.3 |
| TAND 66. DEG F | 1000 | 95.7 | 97.0 | 98.0 | 97.5 | 98.4 | 98.5 | 100.1 | 104.3 | 109.7 | 117.3 | 120.0 | 117.9 | 115.7 | 151.3 | 151.3 | 151.3 |
| (292. DEG K) | 1250 | 95.0 | 97.1 | 98.8 | 99.4 | 99.7 | 100.6 | 101.5 | 105.6 | 110.8 | 118.1 | 120.9 | 119.8 | 115.3 | 151.3 | 151.3 | 151.3 |
| TWET 64. DEG F | 1600 | 94.1 | 95.7 | 96.4 | 97.2 | 98.6 | 99.9 | 101.8 | 105.2 | 110.7 | 118.8 | 121.7 | 119.1 | 115.4 | 150.6 | 150.6 | 150.6 |
| (291. DEG K) | 2000 | 95.7 | 97.0 | 98.5 | 97.5 | 99.1 | 99.7 | 103.1 | 106.8 | 111.2 | 117.8 | 121.0 | 117.4 | 113.0 | 150.6 | 150.6 | 150.6 |
| HACT14.56 GM/M3 | 2500 | 96.5 | 97.6 | 98.3 | 98.6 | 100.2 | 100.8 | 103.2 | 107.6 | 111.8 | 117.2 | 119.4 | 115.5 | 110.3 | 153.7 | 153.7 | 153.7 |
| (.01456 KG/M3) | 3150 | 97.0 | 99.6 | 99.6 | 99.1 | 100.2 | 101.0 | 103.2 | 107.6 | 112.1 | 116.7 | 118.8 | 113.5 | 109.3 | 151.9 | 151.9 | 151.9 |
| FREQ. SHIFT | 4000 | 95.5 | 97.6 | 98.8 | 98.9 | 100.0 | 100.8 | 103.2 | 107.9 | 111.1 | 115.7 | 116.4 | 112.3 | 106.8 | 151.3 | 151.3 | 151.3 |
| JET | 5000 | 96.4 | 98.4 | 99.2 | 99.7 | 100.3 | 101.7 | 103.6 | 108.5 | 111.0 | 114.6 | 115.5 | 111.2 | 106.4 | 150.6 | 150.6 | 150.6 |
| DIAMETER RATIO | 6300 | 95.9 | 99.3 | 99.5 | 100.3 | 101.4 | 102.0 | 104.4 | 107.3 | 110.8 | 113.4 | 114.1 | 110.5 | 106.5 | 150.1 | 150.1 | 150.1 |
| DF/DM 1 | 8000 | 96.5 | 98.8 | 99.4 | 99.9 | 101.2 | 102.5 | 104.2 | 107.1 | 109.9 | 112.7 | 112.7 | 109.8 | 106.0 | 149.7 | 149.7 | 149.7 |
| | 10000 | 95.9 | 100.0 | 100.0 | 102.1 | 101.7 | 103.4 | 106.5 | 109.8 | 111.7 | 111.1 | 108.7 | 105.5 | 104.2 | 148.4 | 148.4 | 148.4 |
| | 12500 | 94.5 | 99.2 | 99.8 | 100.3 | 100.9 | 100.7 | 102.8 | 104.8 | 107.1 | 109.5 | 109.2 | 107.2 | 104.2 | 148.1 | 148.1 | 148.1 |
| | 16000 | 92.5 | 97.8 | 98.7 | 100.6 | 101.2 | 100.5 | 101.5 | 103.6 | 106.4 | 107.9 | 108.3 | 105.8 | 102.8 | 146.8 | 146.8 | 146.8 |
| | 20000 | 89.4 | 94.7 | 96.1 | 97.7 | 100.7 | 99.1 | 99.8 | 101.0 | 104.6 | 105.6 | 105.0 | 101.6 | 100.5 | 145.2 | 145.2 | 145.2 |
| | 25000 | 86.4 | 92.4 | 92.8 | 94.6 | 97.3 | 96.6 | 96.6 | 97.4 | 101.6 | 102.2 | 102.8 | 98.1 | 95.9 | 145.2 | 145.2 | 145.2 |
| | 31500 | 83.6 | 90.1 | 91.3 | 93.3 | 95.5 | 94.2 | 94.5 | 96.3 | 98.8 | 99.6 | 100.8 | 95.7 | 93.7 | 144.8 | 144.8 | 144.8 |
| | 40000 | 77.9 | 85.4 | 88.4 | 89.3 | 90.4 | 90.1 | 89.6 | 91.9 | 95.0 | 97.3 | 97.6 | 91.0 | 89.4 | 143.8 | 143.8 | 143.8 |
| | 50000 | 70.6 | 78.4 | 81.7 | 82.6 | 82.0 | 83.3 | 82.8 | 85.9 | 88.5 | 92.7 | 94.1 | 85.9 | 82.1 | 144.8 | 144.8 | 144.8 |
| | 63000 | 63.1 | 71.4 | 75.7 | 75.2 | 75.0 | 76.2 | 76.0 | 78.8 | 82.5 | 89.2 | 88.8 | 79.6 | 73.7 | 148.9 | 148.9 | 148.9 |
| | 80000 | 57.1 | 64.7 | 70.2 | 68.4 | 66.9 | 71.6 | 70.9 | 72.2 | 75.5 | 83.1 | 85.2 | 72.0 | 67.1 | 165.3 | 165.3 | 165.3 |
| OVERALL MEASURED | | 107.2 | 109.9 | 110.7 | 111.2 | 112.5 | 112.9 | 114.7 | 118.3 | 122.2 | 127.7 | 130.2 | 128.1 | 124.8 | | | |
| OVERALL CALCULATED | | 119.8 | 121.8 | 122.6 | 123.8 | 124.7 | 126.7 | 130.8 | 134.8 | 139.8 | 142.2 | 139.1 | 135.5 | | | | |

CONFIGURATION TEST POINT TEST POINT ACOUSTIC RANGE ACOUSTIC RANGE SIZE MODEL-713cm²(11.1 in²)
 3 3/50 12.2m(40ft.) ARC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% DEG. F. 70 PERCENT REL. HUM. DAY - JEROTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 12.1
 ANGLES FROM INLET IN DEGREES (AND RADIAN) D. O. D. O. D. O.) (0.) (0.) (0.) (0.)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. O. D. O.) (0.) (0.) (0.) (0.) |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------|
| FREQ. | (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.) |
| NO EGA | 50 | 88.6 | 92.6 | 91.1 | 93.7 | 96.0 | 96.6 | 98.0 | 100.7 | 104.4 | 110.2 | 115.9 | 118.1 | 117.6 |
| RDG. NO. O. | 63 | 90.9 | 92.9 | 93.9 | 94.2 | 96.0 | 97.4 | 98.5 | 101.9 | 106.4 | 113.5 | 118.9 | 119.6 | 118.2 |
| RADIAL 150. FT. | 100 | 93.6 | 96.6 | 95.3 | 95.3 | 97.1 | 98.7 | 100.1 | 104.0 | 109.0 | 116.8 | 121.3 | 120.9 | 118.2 |
| (46. M) | 125 | 96.6 | 96.6 | 97.6 | 98.6 | 100.7 | 100.1 | 102.7 | 105.6 | 111.3 | 118.9 | 122.6 | 122.3 | 118.8 |
| VEHICLE CELL 41 | 160 | 100.9 | 102.2 | 103.2 | 102.7 | 103.6 | 103.7 | 105.3 | 109.5 | 114.9 | 122.5 | 125.2 | 123.2 | 120.9 |
| CONFIG MC 41 | 200 | 100.2 | 102.3 | 104.0 | 104.6 | 104.9 | 105.8 | 106.7 | 110.8 | 116.0 | 123.4 | 126.1 | 125.0 | 120.5 |
| LOC C 41 AMECH CH | 250 | 99.4 | 100.9 | 101.7 | 102.4 | 103.8 | 105.1 | 107.0 | 110.4 | 115.9 | 124.0 | 126.9 | 124.4 | 120.6 |
| DATE 06-01-76 | 315 | 100.9 | 102.2 | 103.7 | 102.7 | 104.3 | 104.9 | 108.3 | 112.0 | 116.5 | 123.0 | 126.2 | 122.7 | 118.2 |
| RUM COMPZEROFM | 400 | 101.8 | 102.8 | 103.6 | 103.9 | 105.5 | 106.1 | 108.5 | 112.9 | 117.1 | 122.4 | 124.6 | 120.8 | 115.6 |
| TAPE X31500 | 500 | 102.3 | 104.3 | 104.9 | 104.4 | 105.3 | 106.2 | 108.6 | 113.2 | 116.4 | 121.9 | 124.1 | 118.8 | 114.6 |
| BAR 29.3 HG | 630 | 100.9 | 102.9 | 104.2 | 104.2 | 105.3 | 106.2 | 108.6 | 113.2 | 116.4 | 121.9 | 124.1 | 118.8 | 114.6 |
| (98975. M/MZ) | 800 | 101.8 | 103.8 | 104.6 | 105.1 | 105.7 | 107.1 | 108.9 | 113.9 | 116.3 | 119.9 | 120.9 | 116.5 | 111.8 |
| TAMB 60. DEG F | 1000 | 101.6 | 104.7 | 105.0 | 105.8 | 106.9 | 107.5 | 109.9 | 112.8 | 116.3 | 118.9 | 119.6 | 116.0 | 112.0 |
| (292. DEG K) | 1250 | 102.1 | 104.6 | 105.0 | 105.5 | 106.8 | 108.2 | 109.8 | 112.8 | 115.5 | 118.4 | 118.3 | 115.4 | 111.7 |
| TNET 64. DEG K | 1600 | 101.8 | 103.9 | 105.9 | 105.9 | 108.0 | 107.6 | 109.3 | 112.4 | 115.7 | 117.6 | 117.0 | 114.6 | 111.4 |
| (291. DEG K) | 2000 | 100.8 | 103.5 | 106.1 | 106.6 | 107.2 | 107.0 | 109.1 | 111.1 | 113.4 | 115.8 | 115.5 | 113.5 | 110.5 |
| (.01456 KG/M3) | 2500 | 99.4 | 104.7 | 105.6 | 107.6 | 108.1 | 107.6 | 108.4 | 110.6 | 113.4 | 114.8 | 115.2 | 112.7 | 109.7 |
| HACT14.56 GM/M3 | 3150 | 97.2 | 102.5 | 103.8 | 103.4 | 108.5 | 106.8 | 107.6 | 108.7 | 112.3 | 113.3 | 112.7 | 109.6 | 108.3 |
| (.01456 KG/M3) | 4000 | 95.3 | 101.3 | 101.7 | 103.5 | 106.2 | 105.3 | 105.3 | 106.3 | 110.5 | 111.1 | 111.6 | 107.0 | 104.8 |
| FREQ. SHIFT | 5000 | 94.5 | 101.0 | 102.1 | 104.1 | 106.4 | 105.1 | 105.3 | 107.2 | 109.7 | 110.5 | 111.7 | 106.6 | 104.6 |
| JET | 6300 | 93.4 | 98.9 | 101.9 | 102.8 | 103.9 | 103.6 | 103.1 | 105.4 | 108.5 | 110.8 | 111.1 | 106.5 | 102.9 |
| DIAMETER RATIO | 8000 | 87.7 | 93.3 | 98.4 | 99.3 | 99.9 | 100.2 | 99.7 | 102.8 | 105.4 | 109.6 | 111.0 | 102.8 | 99.0 |
| BF/DM 6.81 | 10000 | 85.0 | 93.4 | 97.6 | 97.1 | 96.9 | 95.1 | 98.0 | 100.7 | 104.4 | 111.1 | 110.7 | 101.5 | 95.6 |
| OVERALL CALCULATED | 12500 | 86.5 | 94.1 | 99.6 | 97.9 | 96.3 | 101.0 | 100.3 | 101.7 | 104.9 | 112.5 | 114.6 | 101.4 | 96.5 |
| | PH88 | 123.8 | 128.1 | 129.2 | 130.3 | 131.9 | 131.8 | 132.5 | 135.1 | 138.5 | 141.8 | 143.0 | 139.9 | 136.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/50 ACOUSTIC RANGE 45.7m (150ft.) ARC SIZE FULL - .33m² (513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | |
|--|---------------------------------|------|------|------|------|---|-------|-------|-------|-------|-------|-------|------|------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 60.4 | 66.0 | 65.6 | 68.9 | 71.6 | 72.4 | 73.6 | 75.9 | 78.9 | 83.6 | 82.7 | 85.1 | 84.1 | 83.7 |
| 63 | 62.6 | 66.2 | 68.3 | 69.4 | 71.6 | 73.1 | 74.1 | 77.1 | 80.8 | 86.8 | 90.7 | 89.1 | 84.1 | 84.0 |
| 80 | 63.4 | 66.2 | 68.9 | 70.4 | 72.6 | 74.6 | 75.6 | 79.1 | 83.4 | 90.1 | 92.9 | 90.3 | 84.0 | 84.4 |
| 100 | 65.1 | 67.8 | 69.6 | 71.9 | 74.4 | 75.7 | 78.2 | 80.7 | 85.6 | 92.1 | 96.2 | 91.5 | 84.4 | 85.2 |
| 125 | 68.0 | 69.7 | 71.8 | 73.6 | 76.1 | 77.1 | 78.6 | 82.6 | 88.6 | 94.5 | 96.1 | 92.1 | 85.2 | 86.0 |
| 160 | 72.2 | 73.1 | 77.3 | 77.6 | 78.8 | 79.1 | 80.6 | 84.3 | 89.0 | 95.4 | 96.5 | 92.0 | 86.0 | 85.2 |
| 200 | 71.3 | 75.0 | 78.0 | 79.3 | 80.0 | 81.1 | 81.8 | 85.5 | 90.0 | 96.1 | 97.1 | 93.6 | 85.2 | 84.8 |
| 250 | 70.2 | 73.4 | 75.4 | 77.0 | 78.7 | 80.3 | 82.0 | 85.0 | 89.6 | 96.5 | 97.7 | 92.6 | 81.7 | 78.2 |
| 315 | 71.4 | 74.6 | 77.2 | 77.9 | 79.1 | 79.8 | 83.1 | 86.3 | 89.9 | 95.3 | 96.7 | 90.5 | 81.7 | 76.2 |
| 400 | 71.8 | 74.7 | 76.7 | 77.9 | 79.6 | 80.7 | 82.9 | 86.9 | 90.2 | 94.3 | 94.6 | 88.0 | 78.2 | 72.5 |
| 500 | 71.8 | 75.8 | 77.6 | 78.0 | 79.6 | 80.6 | 82.6 | 86.5 | 90.1 | 93.4 | 93.6 | 85.3 | 76.2 | 72.5 |
| 630 | 69.7 | 73.8 | 76.5 | 77.4 | 79.0 | 80.0 | 82.2 | 86.4 | 88.7 | 91.9 | 90.5 | 83.3 | 72.5 | 70.4 |
| 800 | 69.6 | 73.9 | 76.2 | 77.7 | 78.8 | 80.4 | 82.1 | 86.4 | 88.0 | 90.1 | 88.8 | 81.0 | 70.4 | 68.5 |
| 1000 | 68.2 | 74.0 | 75.8 | 77.6 | 79.3 | 80.1 | 82.3 | 84.6 | 87.1 | 88.1 | 86.4 | 79.0 | 68.5 | 61.6 |
| 1250 | 67.6 | 72.5 | 74.8 | 76.4 | 78.4 | 80.0 | 81.4 | 83.7 | 85.3 | 86.5 | 83.8 | 76.7 | 65.6 | 56.3 |
| 1600 | 65.3 | 70.3 | 74.4 | 75.6 | 78.3 | 78.2 | 79.6 | 82.1 | 84.1 | 84.1 | 80.5 | 73.4 | 61.6 | 56.3 |
| 2000 | 62.0 | 70.1 | 72.8 | 74.7 | 76.0 | 76.1 | 77.9 | 79.2 | 80.1 | 80.4 | 76.7 | 69.3 | 56.3 | 49.0 |
| 2500 | 57.3 | 66.5 | 69.9 | 73.4 | 74.8 | 74.4 | 75.1 | 76.4 | 77.6 | 76.6 | 73.1 | 64.2 | 49.0 | 37.3 |
| 3150 | 49.6 | 59.7 | 64.1 | 67.7 | 71.7 | 70.4 | 70.8 | 70.8 | 63.6 | 63.1 | 64.9 | 61.6 | 56.0 | 40.9 |
| 4000 | 39.7 | 51.9 | 56.1 | 60.3 | 64.3 | 64.0 | 63.6 | 63.1 | 60.8 | 60.7 | 57.1 | 51.4 | 34.5 | 9.1 |
| 5000 | 34.2 | 47.7 | 53.1 | 57.8 | 61.5 | 60.5 | 60.5 | 60.5 | 60.8 | 60.7 | 57.1 | 51.4 | 34.5 | 9.1 |
| 6300 | 17.3 | 34.1 | 42.9 | 50.2 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 |
| 8000 | 12.9 | 24.1 | 29.8 | 31.7 | 33.9 | 33.9 | 32.5 | 33.1 | 30.9 | 27.2 | 27.2 | 15.8 | 4.3 | 4.3 |
| 10000 | 1.6 | 7.7 | 11.0 | 13.3 | 12.1 | 11.2 | 8.4 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| OVERALL CALCULATED | 81.3 | 85.2 | 87.5 | 88.7 | 90.4 | 91.3 | 93.1 | 96.5 | 100.0 | 104.8 | 105.9 | 101.6 | 94.3 | 94.3 |
| PH08 | 86.7 | 92.6 | 95.1 | 97.1 | 99.0 | 99.3 | 100.8 | 103.3 | 106.0 | 109.3 | 109.7 | 104.1 | 95.6 | 95.6 |

VEHICLE CELL41
 CONFIG MC41
 LOC C41 ANECH CH
 DATE 06-01-76
 RUN CONF3ZEROFW
 TAPE X31500
 FAH TIP SPEED FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/50 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | RADIAL (FT.) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | ANGLES FROM IMLET IN DEGREES (AND RADIAN) | | | | | PHL | | | | | | | | | |
|----------|--------|----------------|---------|--------|-----|------|-----|------|-----|------|------|------|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| 50 | | 85.3 | | | | | | | | | | | 50 | (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) | (2.96) | 158.5 |
| 60 | | 87.0 | | | | | | | | | | | 60 | 89.1 | 87.9 | 89.9 | 92.3 | 93.1 | 94.5 | 95.9 | 100.4 | 105.7 | 111.1 | 113.3 | 115.1 | 116.7 | 118.3 | 160.7 |
| 70 | | 88.5 | | | | | | | | | | | 70 | 89.2 | 90.7 | 90.9 | 92.5 | 94.2 | 95.0 | 98.7 | 102.7 | 109.5 | 114.4 | 115.1 | 113.9 | 114.5 | 116.3 | 162.8 |
| 80 | | 90.3 | | | | | | | | | | | 80 | 91.3 | 91.6 | 93.1 | 95.0 | 96.6 | 98.7 | 101.6 | 107.1 | 114.4 | 117.9 | 119.0 | 115.1 | 115.1 | 116.8 | 164.3 |
| 90 | | 92.6 | | | | | | | | | | | 90 | 93.4 | 93.9 | 95.6 | 97.2 | 98.4 | 100.0 | 103.4 | 108.9 | 116.4 | 119.9 | 119.3 | 116.6 | 116.6 | 115.8 | 165.8 |
| 100 | | 96.7 | | | | | | | | | | | 100 | 96.7 | 97.9 | 99.9 | 99.2 | 99.9 | 101.8 | 105.0 | 109.9 | 117.5 | 120.2 | 118.9 | 116.9 | 116.9 | 116.2 | 166.2 |
| 110 | | 96.0 | | | | | | | | | | | 110 | 98.0 | 100.0 | 100.3 | 100.9 | 102.3 | 103.2 | 106.8 | 111.0 | 118.4 | 120.8 | 120.5 | 117.3 | 117.3 | 117.3 | 167.1 |
| 120 | | 95.4 | | | | | | | | | | | 120 | 96.6 | 97.7 | 98.2 | 99.8 | 101.6 | 102.8 | 106.2 | 111.6 | 118.0 | 121.2 | 120.4 | 117.4 | 117.4 | 117.4 | 167.1 |
| 130 | | 96.7 | | | | | | | | | | | 130 | 97.2 | 99.5 | 99.0 | 100.3 | 101.2 | 104.1 | 107.2 | 111.5 | 117.8 | 120.7 | 119.4 | 115.7 | 115.7 | 115.7 | 166.7 |
| 140 | | 95.8 | | | | | | | | | | | 140 | 96.6 | 98.6 | 99.6 | 101.0 | 101.6 | 104.2 | 107.6 | 111.8 | 115.2 | 119.4 | 116.8 | 113.6 | 113.6 | 113.6 | 165.0 |
| 150 | | 95.8 | | | | | | | | | | | 150 | 97.6 | 99.1 | 99.1 | 101.2 | 101.8 | 103.7 | 107.9 | 111.6 | 114.9 | 118.4 | 115.6 | 111.6 | 111.6 | 111.6 | 164.3 |
| 160 | | 94.9 | | | | | | | | | | | 160 | 97.2 | 98.9 | 99.2 | 100.6 | 101.7 | 104.1 | 107.7 | 111.2 | 113.8 | 116.2 | 113.4 | 109.2 | 109.2 | 109.2 | 162.9 |
| 170 | | 95.5 | | | | | | | | | | | 170 | 97.8 | 99.1 | 100.1 | 100.7 | 102.3 | 104.2 | 108.1 | 110.8 | 112.9 | 115.6 | 113.0 | 109.1 | 109.1 | 109.1 | 162.5 |
| 180 | | 94.7 | | | | | | | | | | | 180 | 98.5 | 99.3 | 99.8 | 100.9 | 102.5 | 104.4 | 107.3 | 110.8 | 112.1 | 114.3 | 112.2 | 110.2 | 110.2 | 110.2 | 161.9 |
| 190 | | 95.9 | | | | | | | | | | | 190 | 100.0 | 100.3 | 100.0 | 101.8 | 103.0 | 104.6 | 107.8 | 109.8 | 111.9 | 113.3 | 112.2 | 110.2 | 110.2 | 110.2 | 161.6 |
| 200 | | 102.4 | | | | | | | | | | | 200 | 102.4 | 101.7 | 101.5 | 102.8 | 102.4 | 103.8 | 107.2 | 109.7 | 110.6 | 112.5 | 111.4 | 110.6 | 110.6 | 110.6 | 161.2 |
| 210 | | 102.0 | | | | | | | | | | | 210 | 102.0 | 102.4 | 102.9 | 103.2 | 102.8 | 105.6 | 107.2 | 108.8 | 110.6 | 111.0 | 110.6 | 109.8 | 109.8 | 109.8 | 160.2 |
| 220 | | 101.0 | | | | | | | | | | | 220 | 101.0 | 101.7 | 103.6 | 104.1 | 102.7 | 103.2 | 105.3 | 107.7 | 107.1 | 110.5 | 109.5 | 109.0 | 109.0 | 109.0 | 159.9 |
| 230 | | 98.0 | | | | | | | | | | | 230 | 98.0 | 100.1 | 101.5 | 104.3 | 101.9 | 102.6 | 104.4 | 105.9 | 106.4 | 105.9 | 106.5 | 106.5 | 106.9 | 106.9 | 158.2 |
| 240 | | 96.9 | | | | | | | | | | | 240 | 96.9 | 97.3 | 99.1 | 101.6 | 100.8 | 103.6 | 106.4 | 108.6 | 109.6 | 103.2 | 106.5 | 104.3 | 104.0 | 104.0 | 156.8 |
| 250 | | 86.6 | | | | | | | | | | | 250 | 86.6 | 94.1 | 96.9 | 98.5 | 99.1 | 98.8 | 95.6 | 101.6 | 102.2 | 101.8 | 105.1 | 103.2 | 102.3 | 102.3 | 156.0 |
| 260 | | 90.3 | | | | | | | | | | | 260 | 90.3 | 93.7 | 94.5 | 94.1 | 94.5 | 95.4 | 97.3 | 98.5 | 99.7 | 103.3 | 100.6 | 97.5 | 97.5 | 97.5 | 153.7 |
| 270 | | 87.2 | | | | | | | | | | | 270 | 87.2 | 92.5 | 92.7 | 91.5 | 92.4 | 92.0 | 95.5 | 96.8 | 99.0 | 102.6 | 97.6 | 97.6 | 97.6 | 97.6 | 153.4 |
| 280 | | 89.8 | | | | | | | | | | | 280 | 89.8 | 95.3 | 93.3 | 92.2 | 93.4 | 93.0 | 95.6 | 98.6 | 101.5 | 106.4 | 96.3 | 97.6 | 97.6 | 97.6 | 157.4 |
| 290 | | 111.3 | | | | | | | | | | | 290 | 111.3 | 112.4 | 113.0 | 114.3 | 114.6 | 115.9 | 119.0 | 122.6 | 127.2 | 130.3 | 129.4 | 126.6 | 126.6 | 126.6 | 176.8 |
| 300 | | 123.8 | | | | | | | | | | | 300 | 123.8 | 124.9 | 126.1 | 127.5 | 126.7 | 127.7 | 130.1 | 132.9 | 134.7 | 137.7 | 136.5 | 134.9 | 134.9 | 134.9 | 176.8 |
| 310 | | 118.3 | | | | | | | | | | | 310 | 118.3 | 123.8 | 124.9 | 126.1 | 127.5 | 126.7 | 127.7 | 130.1 | 132.9 | 134.7 | 137.7 | 136.5 | 134.9 | 134.9 | 176.8 |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **3** TEST POINT **3/57** ACUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL - 33m²(513in²)**

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 12.1

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | |
|--|-------|---------------------------------|------|------|------|------|---|------|------|-------|-------|-------|-------|------|-----|-----|-----|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | |
| | 50 | 57.2 | 62.5 | 62.4 | 65.1 | 67.9 | 70.1 | 72.1 | 74.9 | 79.1 | 83.0 | 85.9 | 89.2 | 90.0 | 0.0 | 0.0 | 0.0 |
| | 63 | 59.4 | 62.0 | 65.1 | 66.1 | 68.1 | 69.9 | 70.6 | 73.9 | 77.1 | 82.8 | 86.2 | 84.6 | 79.9 | | | |
| | 80 | 60.1 | 62.5 | 65.1 | 66.9 | 68.9 | 70.4 | 72.6 | 75.4 | 79.1 | 85.8 | 88.2 | 80.3 | | | | |
| | 100 | 61.9 | 64.5 | 65.9 | 68.2 | 70.4 | 72.2 | 74.2 | 76.7 | 81.4 | 87.6 | 89.4 | 88.3 | 80.7 | | | |
| | 125 | 64.0 | 66.4 | 68.1 | 70.6 | 72.6 | 73.9 | 75.4 | 78.3 | 83.1 | 89.5 | 91.3 | 88.4 | 82.0 | | | |
| | 160 | 67.9 | 70.9 | 73.8 | 75.1 | 75.3 | 77.1 | 79.8 | 84.0 | 90.4 | 91.5 | 87.7 | 82.0 | | | | |
| | 200 | 67.0 | 70.8 | 74.0 | 75.0 | 76.0 | 77.5 | 78.3 | 81.5 | 85.0 | 91.1 | 91.9 | 89.1 | 81.9 | | | |
| | 250 | 66.1 | 69.2 | 71.4 | 72.7 | 74.7 | 76.8 | 77.7 | 80.7 | 85.1 | 90.5 | 92.0 | 88.6 | 81.5 | | | |
| | 315 | 67.1 | 69.4 | 72.9 | 73.3 | 75.1 | 76.1 | 78.8 | 81.5 | 86.9 | 90.0 | 91.2 | 87.2 | 79.2 | | | |
| | 400 | 65.3 | 68.4 | 71.7 | 73.6 | 75.4 | 76.2 | 78.7 | 81.6 | 85.0 | 87.0 | 89.4 | 86.4 | 76.2 | | | |
| | 500 | 65.3 | 69.0 | 71.9 | 72.6 | 75.3 | 76.1 | 77.8 | 81.5 | 84.4 | 86.4 | 87.9 | 82.1 | 73.2 | | | |
| | 630 | 63.7 | 68.0 | 71.2 | 72.4 | 74.2 | 75.3 | 77.7 | 80.9 | 83.5 | 84.7 | 85.0 | 79.0 | 69.5 | | | |
| | 800 | 63.4 | 67.9 | 70.7 | 72.7 | 73.8 | 75.6 | 77.3 | 80.7 | 82.4 | 83.1 | 83.5 | 77.5 | 67.6 | | | |
| | 1000 | 61.5 | 67.7 | 70.1 | 71.6 | 73.3 | 75.1 | 76.8 | 79.1 | 81.6 | 81.4 | 81.1 | 75.3 | 66.7 | | | |
| | 1250 | 61.3 | 68.0 | 70.1 | 71.0 | 73.4 | 74.7 | 76.2 | 78.7 | 79.6 | 80.0 | 78.8 | 73.5 | 64.1 | | | |
| | 1600 | 59.5 | 68.9 | 70.1 | 71.1 | 73.1 | 72.9 | 74.1 | 76.8 | 78.1 | 77.1 | 76.0 | 70.2 | 60.8 | | | |
| | 2000 | 55.7 | 66.6 | 69.1 | 71.0 | 72.0 | 71.4 | 71.7 | 73.7 | 74.4 | 73.4 | 72.2 | 66.3 | 55.5 | | | |
| | 2500 | 52.1 | 62.7 | 65.9 | 69.4 | 70.8 | 69.7 | 69.9 | 71.2 | 71.9 | 68.9 | 68.4 | 61.0 | 48.3 | | | |
| | 3150 | 44.2 | 55.3 | 60.4 | 63.7 | 65.5 | 65.5 | 65.9 | 65.5 | 66.7 | 63.2 | 59.0 | 50.9 | 35.9 | | | |
| | 4000 | 34.3 | 47.5 | 51.7 | 55.9 | 59.7 | 59.3 | 58.9 | 58.4 | 59.0 | 53.7 | 50.9 | 38.3 | 17.2 | | | |
| | 5000 | 28.8 | 43.3 | 48.5 | 53.7 | 56.7 | 56.1 | 55.9 | 55.7 | 55.1 | 48.5 | 45.8 | 32.6 | 8.5 | | | |
| | 6300 | 12.5 | 29.3 | 37.8 | 42.9 | 45.4 | 45.8 | 44.9 | 44.0 | 43.1 | 37.0 | 31.1 | 13.3 | | | | |
| | 8000 | 7.9 | 19.2 | 24.8 | 27.0 | 28.2 | 28.3 | 27.6 | 24.0 | 17.3 | 8.1 | | | | | | |
| | 10000 | | | 3.2 | 5.6 | 7.7 | 6.1 | 6.1 | 0.7 | | | | | | | | |
| | 12500 | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 76.3 | 80.3 | 83.0 | 84.3 | 86.0 | 87.1 | 88.7 | 91.6 | 94.8 | 99.2 | 100.7 | 97.5 | 90.7 | | | |
| PHDB | | 80.9 | 88.1 | 90.8 | 92.8 | 94.7 | 94.7 | 95.7 | 98.2 | 100.7 | 103.5 | 104.4 | 100.2 | 92.4 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/57 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA | PROC. DATE - MONTH 8 DAY 24 HR. 12.1 | | | | | | | | | | | | | | |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS | | | | | | | | | | | | | | |
| RDG. MO. O. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL | |
| RADIAL 150. FT. | 50 | 80.3 | 84.1 | 83.6 | 85.2 | 87.8 | 88.1 | 89.3 | 92.4 | 94.9 | 99.7 | 105.1 | 107.6 | 106.9 | 152.6 |
| (46. M) | 63 | 82.6 | 84.4 | 86.2 | 86.2 | 87.5 | 88.7 | 90.0 | 93.7 | 97.4 | 102.7 | 108.4 | 109.1 | 108.4 | 154.8 |
| VEHICLE CELL 41 | 80 | 83.2 | 84.7 | 86.2 | 86.5 | 88.6 | 90.0 | 91.4 | 94.6 | 98.5 | 103.3 | 110.5 | 111.7 | 109.0 | 156.8 |
| CONFIG NC41 | 100 | 84.6 | 86.3 | 87.1 | 88.6 | 90.5 | 91.3 | 93.0 | 96.6 | 100.6 | 106.4 | 112.1 | 113.8 | 110.3 | 158.5 |
| LOC C41 ANECH CH | 125 | 87.3 | 87.9 | 88.9 | 89.9 | 91.5 | 92.6 | 94.5 | 97.6 | 102.1 | 107.9 | 114.1 | 113.6 | 110.9 | 159.6 |
| DATE 06-01-76 | 160 | 91.2 | 91.9 | 93.2 | 92.7 | 93.1 | 94.2 | 96.1 | 99.0 | 101.9 | 107.5 | 113.5 | 112.9 | 110.7 | 159.1 |
| RUN CONFZEROFW | 200 | 88.7 | 90.8 | 92.8 | 93.6 | 94.2 | 95.8 | 97.4 | 100.3 | 103.0 | 107.9 | 112.1 | 113.0 | 109.8 | 158.7 |
| TAPE X31520 | 250 | 89.4 | 90.4 | 90.9 | 91.9 | 92.8 | 95.9 | 96.5 | 99.7 | 103.4 | 106.7 | 110.7 | 110.9 | 108.6 | 157.4 |
| BAR 29.3 HG | 315 | 89.2 | 90.7 | 92.2 | 91.7 | 93.6 | 95.2 | 97.1 | 100.5 | 103.0 | 106.0 | 109.0 | 108.9 | 105.4 | 156.0 |
| (9E975. H/R2) | 400 | 88.8 | 90.1 | 91.8 | 93.1 | 94.7 | 95.1 | 97.5 | 100.9 | 104.1 | 105.4 | 106.6 | 107.0 | 103.3 | 155.0 |
| TAMB 66. DEG F | 630 | 87.9 | 89.4 | 91.4 | 92.6 | 94.7 | 95.3 | 97.1 | 100.7 | 103.2 | 105.0 | 106.4 | 106.6 | 103.6 | 155.0 |
| (292. DEG K) | 800 | 88.0 | 89.8 | 92.3 | 93.9 | 94.7 | 95.8 | 97.2 | 100.6 | 103.1 | 104.2 | 107.1 | 108.5 | 104.6 | 154.8 |
| HACT14.56 GM/M3 | 1000 | 87.2 | 89.7 | 92.5 | 93.8 | 95.4 | 97.0 | 98.1 | 100.3 | 102.8 | 103.9 | 106.8 | 109.2 | 105.5 | 155.5 |
| (.07456 KG/M3) | 1250 | 87.4 | 88.9 | 90.8 | 93.0 | 95.3 | 96.4 | 98.3 | 100.5 | 102.3 | 103.4 | 105.6 | 107.9 | 106.2 | 154.9 |
| FREQ. SHIFT | 1600 | 86.0 | 89.1 | 90.7 | 92.7 | 95.5 | 95.6 | 97.0 | 100.4 | 102.2 | 102.3 | 104.3 | 107.4 | 105.6 | 154.3 |
| JET | 2000 | 84.0 | 87.8 | 90.1 | 92.1 | 94.2 | 95.0 | 96.6 | 98.6 | 100.6 | 100.3 | 102.0 | 106.0 | 104.2 | 153.2 |
| DIAMETER RATIO | 3150 | 80.4 | 85.2 | 87.8 | 89.2 | 93.5 | 93.3 | 95.1 | 96.7 | 99.6 | 99.6 | 100.2 | 103.6 | 101.5 | 151.4 |
| DF/DM 6.81 | 4000 | 78.3 | 83.8 | 85.7 | 88.0 | 90.7 | 91.5 | 92.2 | 94.5 | 97.5 | 96.3 | 98.9 | 100.5 | 98.3 | 149.3 |
| OVERALL CALCULATED | 5000 | 77.7 | 83.8 | 85.9 | 87.6 | 91.1 | 91.1 | 92.3 | 94.4 | 96.7 | 94.2 | 96.9 | 100.6 | 97.3 | 148.8 |
| | 8000 | 72.0 | 77.5 | 81.9 | 82.5 | 85.1 | 85.7 | 86.7 | 89.0 | 92.9 | 94.7 | 92.8 | 95.4 | 94.9 | 147.4 |
| | 10000 | 71.5 | 76.9 | 80.6 | 79.9 | 84.4 | 84.4 | 85.0 | 85.7 | 86.9 | 87.1 | 89.5 | 91.8 | 88.3 | 144.4 |
| | 12500 | 75.3 | 78.1 | 84.1 | 81.1 | 88.8 | 88.7 | 88.6 | 85.2 | 86.9 | 89.0 | 90.4 | 91.1 | 91.0 | 143.4 |
| | 15000 | 79.9 | 81.9 | 88.8 | 86.7 | 94.7 | 94.7 | 94.7 | 92.2 | 94.7 | 97.8 | 99.2 | 100.2 | 100.2 | 147.0 |
| | PM98 | 108.8 | 112.2 | 114.4 | 116.0 | 118.5 | 119.1 | 120.5 | 123.2 | 125.6 | 126.5 | 129.1 | 131.4 | 129.0 | 169.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **S** TEST POINT **3/52** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

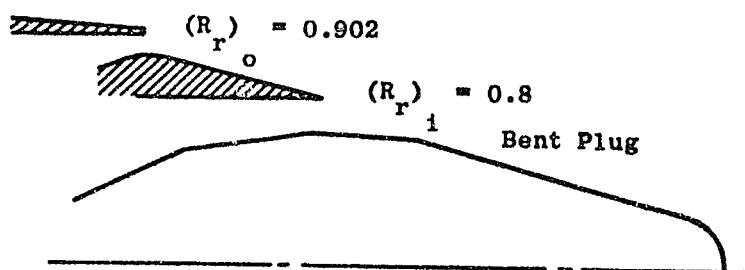
| NO EGA
SIDE LINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | | | | | | | | | | | | | | |
|---|-------|---|--------|--------|--------|--------|------|------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| | | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 52.2 | 57.5 | 58.1 | 60.4 | 63.4 | 65.9 | 67.6 | 69.4 | 73.1 | 77.0 | 77.1 | 73.0 | 160.0 | (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) | (0.0) | |
| 63 | 54.4 | 57.7 | 60.6 | 61.4 | 63.1 | 64.4 | 65.6 | 68.9 | 71.8 | 76.1 | 80.2 | 78.6 | 74.4 | 160.0 | (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) | (0.0) |
| 80 | 54.9 | 58.0 | 60.6 | 61.6 | 64.1 | 65.6 | 66.9 | 69.9 | 72.9 | 78.6 | 82.2 | 81.1 | 76.8 | 160.0 | (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) | (0.0) |
| 125 | 58.8 | 60.9 | 63.1 | 63.7 | 65.9 | 66.9 | 68.4 | 71.7 | 74.9 | 79.6 | 83.7 | 83.0 | 75.9 | 160.0 | (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) | (0.0) |
| 160 | 62.4 | 64.9 | 67.3 | 67.6 | 68.3 | 69.6 | 71.3 | 73.8 | 76.0 | 80.4 | 84.7 | 81.7 | 75.7 | 160.0 | (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) | (0.0) |
| 200 | 59.8 | 63.5 | 66.7 | 68.3 | 69.3 | 71.1 | 72.5 | 75.0 | 77.0 | 80.6 | 83.1 | 81.6 | 74.4 | 160.0 | (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) | (0.0) |
| 250 | 59.2 | 62.9 | 64.6 | 66.5 | 67.7 | 71.0 | 71.5 | 74.2 | 77.1 | 79.3 | 81.5 | 79.1 | 72.8 | 160.0 | (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) | (0.0) |
| 315 | 59.6 | 62.9 | 65.7 | 66.0 | 68.3 | 70.1 | 71.8 | 74.8 | 76.4 | 78.3 | 79.4 | 76.7 | 68.9 | 160.0 | (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) | (0.0) |
| 400 | 58.8 | 62.0 | 65.0 | 67.1 | 69.2 | 69.7 | 71.9 | 74.9 | 77.2 | 77.3 | 76.6 | 74.3 | 66.0 | 160.0 | (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) | (0.0) |
| 500 | 57.8 | 61.8 | 65.4 | 66.3 | 68.8 | 69.6 | 71.1 | 74.3 | 77.1 | 76.9 | 75.9 | 73.1 | 65.2 | 160.0 | (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) | (0.0) |
| 630 | 56.7 | 60.3 | 63.7 | 65.4 | 67.5 | 69.3 | 70.7 | 73.9 | 75.5 | 75.9 | 75.0 | 73.0 | 63.7 | 160.0 | (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) | (0.0) |
| 800 | 55.9 | 59.9 | 64.0 | 66.4 | 67.8 | 69.1 | 70.3 | 73.2 | 74.7 | 74.3 | 73.6 | 72.3 | 62.0 | 160.0 | (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) | (0.0) |
| 1000 | 54.0 | 59.0 | 63.3 | 65.6 | 67.8 | 69.6 | 70.5 | 72.1 | 73.6 | 73.1 | 73.6 | 72.3 | 62.0 | 160.0 | (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) | (0.0) |
| 1250 | 52.8 | 57.0 | 60.6 | 63.9 | 66.9 | 68.2 | 69.9 | 71.4 | 72.1 | 71.5 | 71.0 | 69.2 | 60.1 | 160.0 | (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) | (0.0) |
| 1600 | 49.5 | 55.6 | 59.1 | 62.3 | 65.8 | 66.2 | 67.3 | 70.1 | 70.6 | 68.8 | 67.8 | 66.2 | 55.8 | 160.0 | (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) | (0.0) |
| 2000 | 45.2 | 52.3 | 56.8 | 60.2 | 63.0 | 64.1 | 65.4 | 66.7 | 67.3 | 65.9 | 64.2 | 62.1 | 49.8 | 160.0 | (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) | (0.0) |
| 2500 | 40.5 | 48.7 | 53.4 | 57.4 | 60.8 | 61.7 | 62.6 | 64.4 | 64.9 | 62.1 | 59.8 | 57.4 | 43.5 | 160.0 | (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) | (0.0) |
| 3150 | 32.9 | 42.5 | 48.1 | 51.4 | 56.7 | 56.9 | 58.3 | 58.9 | 59.9 | 55.9 | 52.7 | 48.1 | 30.5 | 160.0 | (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) | (0.0) |
| 4000 | 22.7 | 34.4 | 40.1 | 44.8 | 48.8 | 50.0 | 50.3 | 51.3 | 51.9 | 46.9 | 43.3 | 38.4 | 11.8 | 160.0 | (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) | (0.0) |
| 5000 | 17.4 | 30.4 | 36.9 | 41.3 | 46.3 | 46.7 | 47.5 | 48.1 | 47.7 | 40.9 | 36.6 | 28.5 | 1.9 | 160.0 | (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) | (0.0) |
| 6300 | 0.6 | 16.3 | 25.9 | 30.9 | 35.3 | 36.3 | 36.5 | 37.3 | 35.7 | 28.0 | 21.3 | 7.8 | | 160.0 | (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) | (0.0) |
| 8000 | | | 7.4 | 12.8 | 18.0 | 19.4 | 19.5 | 19.3 | 15.7 | 6.5 | | | | 160.0 | (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) | (0.0) |
| 10000 | | | | | | | | | | | | | | 160.0 | (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) | (0.0) |
| 12500 | | | | | | | | | | | | | | 160.0 | (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) | (0.0) |
| OVERALL CALCULATED | 69.6 | 73.1 | 75.9 | 77.6 | 79.5 | 81.0 | 82.4 | 83.0 | 87.3 | 89.7 | 92.6 | 90.7 | 84.2 | 160.0 | (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) | (0.0) |
| PNOB | 73.2 | 77.6 | 81.2 | 83.7 | 86.6 | 87.6 | 88.9 | 91.4 | 93.0 | 93.7 | 95.2 | 93.1 | 85.0 | 160.0 | (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) | (0.0) |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 3 TEST POINT 3/52 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

6.4 Acoustic Data

- Coannular Configuration 4



$$A^o = 11.057 \text{ in.}^2$$

$$A_T = A^o + A^i = 22.407 \text{ in.}^2$$

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 27 HR. 12.2
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL |
|--------------------|---|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | |
| 50 | 77.9 | 81.2 | 82.7 | 82.7 | 83.8 | 149.8 |
| 63 | 79.3 | 83.8 | 82.3 | 84.8 | 86.9 | 151.6 |
| 80 | 80.8 | 83.1 | 85.1 | 85.6 | 87.8 | 153.1 |
| 100 | 81.6 | 83.4 | 84.7 | 85.9 | 88.7 | 154.3 |
| 125 | 82.7 | 84.8 | 85.8 | 86.8 | 89.5 | 154.2 |
| 160 | 83.8 | 86.0 | 86.5 | 88.3 | 89.9 | 154.3 |
| 200 | 86.1 | 87.4 | 88.1 | 88.9 | 90.2 | 152.8 |
| 250 | 85.4 | 87.5 | 88.7 | 89.5 | 90.6 | 151.9 |
| 315 | 85.8 | 88.3 | 89.3 | 91.4 | 92.7 | 151.5 |
| 400 | 85.3 | 87.4 | 88.9 | 89.9 | 91.8 | 149.7 |
| 500 | 85.7 | 88.2 | 89.5 | 90.0 | 91.4 | 149.9 |
| 630 | 85.7 | 88.5 | 90.0 | 91.5 | 92.1 | 149.7 |
| 800 | 85.3 | 87.3 | 90.4 | 90.9 | 92.7 | 149.9 |
| 1000 | 84.9 | 87.5 | 89.3 | 90.8 | 91.4 | 149.3 |
| 1250 | 83.6 | 87.1 | 88.9 | 89.7 | 92.3 | 149.5 |
| 1600 | 83.2 | 85.8 | 87.4 | 89.9 | 91.5 | 149.3 |
| 2000 | 81.4 | 85.7 | 87.1 | 89.0 | 91.6 | 149.1 |
| 2500 | 79.8 | 84.1 | 85.7 | 88.4 | 90.2 | 147.6 |
| 3150 | 79.2 | 83.7 | 84.8 | 88.3 | 90.6 | 147.2 |
| 4000 | 77.8 | 81.8 | 84.2 | 87.1 | 90.8 | 145.8 |
| 5000 | 77.3 | 82.6 | 84.4 | 88.0 | 91.2 | 146.1 |
| 6300 | 77.8 | 83.4 | 86.5 | 90.5 | 93.5 | 149.8 |
| 8000 | 73.7 | 79.2 | 83.5 | 86.1 | 89.7 | 147.6 |
| 10000 | 67.2 | 73.3 | 77.4 | 80.2 | 81.4 | 141.5 |
| 12500 | 64.0 | 68.6 | 73.9 | 75.4 | 77.4 | 138.7 |
| 16000 | 63.5 | 67.9 | 73.9 | 73.4 | 77.4 | 141.1 |
| OVERALL CALCULATED | 96.7 | 99.4 | 101.0 | 102.6 | 104.4 | 117.1 |
| PNDB | 106.4 | 110.2 | 111.8 | 114.3 | 116.7 | 122.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4/46 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M.) | FULL SIZE SOUND PRESSURE | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | FREQ. | NO EGA
SIDELINE 2400. FT.
(731.52 M.) | NFA
(0. RAD/SEC) | NFK
(1. RAD/SEC) | NFD
(7500. RPM
785. RAD/SEC) | AIRFLOW RATIO
WF/WF 4.78 | VEHICLE
CONFIG
LOC C41 ANECH CH
DATE 06-14-76
RUN CONF4HIGHFLW
TAPE X04400 | FAN TIP SPEED
FT/SEC | OVERALL CALCULATED | PNDB | |
|---|--------------------------|--------|--------|--------|--|--------|--------|--------|--------|---|----------------------|----------------------|------------------------------------|-----------------------------|---|-------------------------|--------------------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | | | | | | | | | | | 120. |
| 50 | (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) | (3.00) | (3.20) | (3.40) | (3.60) | (3.80) | (4.00) |
| 63 | 49.7 | 54.6 | 57.2 | 57.9 | 59.5 | 61.0 | 63.7 | 65.2 | 65.7 | 68.9 | 73.8 | 73.7 | 71.6 | | | | | | |
| 80 | 51.0 | 57.1 | 56.7 | 60.0 | 62.5 | 63.3 | 64.3 | 66.2 | 67.5 | 70.4 | 74.8 | 75.7 | 73.5 | | | | | | |
| 100 | 52.5 | 56.3 | 59.4 | 60.7 | 62.2 | 63.5 | 64.5 | 67.2 | 68.9 | 72.9 | 77.5 | 77.2 | 73.6 | | | | | | |
| 125 | 53.2 | 56.6 | 59.0 | 61.0 | 62.5 | 64.3 | 65.7 | 68.0 | 70.0 | 74.2 | 77.8 | 78.8 | 74.5 | | | | | | |
| 160 | 54.2 | 57.8 | 60.0 | 61.7 | 63.8 | 65.0 | 67.0 | 69.2 | 71.2 | 73.9 | 77.7 | 78.5 | 73.9 | | | | | | |
| 200 | 55.0 | 58.9 | 60.6 | 63.1 | 65.2 | 65.9 | 67.9 | 70.4 | 72.4 | 74.8 | 77.6 | 77.8 | 73.5 | | | | | | |
| 250 | 57.1 | 60.1 | 62.0 | 63.6 | 65.4 | 66.9 | 68.9 | 70.6 | 71.8 | 74.9 | 75.9 | 74.4 | 71.2 | | | | | | |
| 315 | 56.2 | 60.6 | 62.8 | 65.6 | 67.4 | 68.7 | 68.9 | 70.4 | 72.8 | 74.3 | 74.3 | 72.6 | 68.3 | | | | | | |
| 400 | 55.3 | 59.2 | 62.0 | 63.9 | 66.2 | 67.2 | 69.0 | 71.2 | 71.8 | 73.6 | 71.4 | 67.8 | 61.5 | | | | | | |
| 500 | 55.2 | 59.7 | 62.3 | 63.7 | 65.5 | 66.3 | 68.0 | 70.4 | 72.0 | 71.8 | 69.8 | 65.5 | 58.1 | | | | | | |
| 630 | 54.5 | 59.4 | 62.3 | 64.7 | 65.8 | 66.6 | 68.6 | 70.7 | 71.8 | 71.5 | 68.6 | 63.9 | 55.3 | | | | | | |
| 800 | 53.2 | 57.4 | 62.0 | 63.4 | 65.8 | 66.9 | 68.1 | 70.7 | 71.0 | 70.1 | 66.5 | 61.8 | 52.7 | | | | | | |
| 1000 | 51.7 | 56.7 | 60.1 | 62.6 | 63.8 | 65.8 | 67.3 | 69.4 | 69.8 | 68.6 | 65.4 | 60.3 | 51.0 | | | | | | |
| 1250 | 49.0 | 55.2 | 58.8 | 60.6 | 63.8 | 65.4 | 67.3 | 68.8 | 67.4 | 63.7 | 59.2 | 49.8 | | | | | | | |
| 1600 | 46.7 | 52.3 | 55.8 | 59.5 | 61.8 | 63.6 | 65.5 | 66.8 | 67.3 | 65.5 | 61.7 | 56.6 | 46.3 | | | | | | |
| 2000 | 42.6 | 50.3 | 53.8 | 57.1 | 60.5 | 61.1 | 63.5 | 64.6 | 65.5 | 63.3 | 58.6 | 53.8 | 42.5 | | | | | | |
| 2500 | 37.7 | 45.8 | 49.9 | 54.2 | 56.9 | 58.1 | 61.2 | 60.6 | 60.9 | 58.1 | 53.6 | 47.5 | 34.9 | | | | | | |
| 3150 | 31.6 | 40.9 | 45.2 | 50.5 | 53.8 | 54.0 | 57.3 | 56.3 | 56.7 | 52.1 | 45.9 | 40.9 | 24.2 | | | | | | |
| 4000 | 22.2 | 32.4 | 38.6 | 43.9 | 48.9 | 48.6 | 51.4 | 48.4 | 49.1 | 42.7 | 34.4 | 26.5 | 7.5 | | | | | | |
| 5000 | 17.0 | 29.2 | 35.4 | 41.6 | 46.3 | 47.5 | 48.6 | 47.3 | 46.2 | 36.4 | 28.1 | 16.4 | | | | | | | |
| 6300 | 3.8 | 18.6 | 27.4 | 34.9 | 39.8 | 41.4 | 44.7 | 41.9 | 39.2 | 26.7 | 13.0 | 0.5 | | | | | | | |
| 8000 | | | 9.0 | 16.3 | 22.5 | 25.2 | 28.0 | 24.3 | 21.3 | 8.0 | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 66.0 | 70.2 | 72.8 | 74.9 | 76.8 | 78.0 | 79.7 | 81.6 | 83.0 | 84.6 | 86.2 | 86.0 | 82.1 | | | | | | |
| PNDB | 69.8 | 75.1 | 78.2 | 81.1 | 83.7 | 84.9 | 86.9 | 88.1 | 89.1 | 89.1 | 88.3 | 86.5 | 80.8 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
 4 Y46 731.5m(2400ft.) SIDELINE FULL-.33m(513in²)

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

| RDG. NO. | 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. | | | | | | | | | | | | | | | |
|------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | FREQ. | (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) | (3.00) | (3.21) |
| NO EGA | 50 | 78.4 | 86.9 | 84.2 | 86.0 | 87.0 | 86.7 | 87.0 | 87.5 | 88.9 | 90.0 | 93.9 | 94.1 | 97.4 | 131.7 | |
| RADIAL 40. FT. | 63 | 76.6 | 80.6 | 81.6 | 84.4 | 86.7 | 88.2 | 88.9 | 87.4 | 86.2 | 86.2 | 85.1 | 87.1 | 98.6 | 132.5 | |
| VEHICLE (12. M) | 80 | 77.6 | 79.2 | 82.7 | 83.2 | 83.8 | 84.2 | 84.5 | 86.0 | 87.2 | 92.0 | 96.7 | 98.9 | 101.2 | 133.7 | |
| CELL41 | 125 | 79.3 | 79.5 | 81.3 | 82.8 | 83.9 | 84.8 | 86.2 | 86.0 | 87.2 | 92.0 | 96.7 | 98.9 | 101.2 | 137.5 | |
| CONFIG NC56 | 200 | 78.3 | 81.8 | 83.3 | 82.9 | 84.7 | 86.3 | 88.7 | 90.4 | 91.6 | 96.4 | 99.1 | 103.8 | 105.5 | 139.7 | |
| LOC C41 ANECH CH | 250 | 79.7 | 84.4 | 82.4 | 85.0 | 88.1 | 88.7 | 90.1 | 91.7 | 93.9 | 98.5 | 104.7 | 108.4 | 109.2 | 141.8 | |
| DATE 06-16-76 | 315 | 81.9 | 83.5 | 85.5 | 85.8 | 87.6 | 88.5 | 89.8 | 92.5 | 95.7 | 100.8 | 107.2 | 110.2 | 110.2 | 143.6 | |
| RUN CONF4HIGHFLW | 400 | 82.5 | 84.0 | 85.0 | 86.1 | 87.9 | 89.3 | 90.9 | 93.6 | 96.3 | 102.9 | 108.8 | 111.8 | 111.0 | 144.5 | |
| TAPE X04410 | 500 | 83.9 | 85.4 | 85.6 | 87.2 | 89.3 | 90.4 | 92.5 | 94.7 | 98.1 | 102.2 | 109.2 | 113.1 | 111.1 | 146.1 | |
| BAR 29.4 HG | 600 | 85.6 | 86.4 | 87.4 | 89.2 | 90.8 | 92.2 | 93.5 | 96.0 | 99.4 | 104.0 | 109.7 | 112.9 | 111.9 | 146.1 | |
| (99144. N/M2) | 800 | 88.7 | 89.2 | 90.7 | 90.8 | 91.6 | 93.0 | 94.4 | 96.8 | 99.5 | 104.6 | 108.3 | 111.5 | 111.5 | 145.3 | |
| TAHS 77. DEG F | 1000 | 88.0 | 88.3 | 90.6 | 90.6 | 92.2 | 93.6 | 95.0 | 97.9 | 100.6 | 104.4 | 107.6 | 111.5 | 110.8 | 145.1 | |
| (298. DEG K) | 1250 | 87.4 | 89.2 | 89.2 | 91.7 | 92.8 | 93.9 | 94.6 | 97.5 | 100.4 | 104.0 | 106.0 | 109.6 | 109.9 | 143.9 | |
| TYET 70. DEG F | 1600 | 87.9 | 88.7 | 90.2 | 90.8 | 92.9 | 93.7 | 95.9 | 98.3 | 100.5 | 103.8 | 104.5 | 107.4 | 107.2 | 142.6 | |
| (294. DEG K) | 2000 | 89.5 | 91.1 | 91.6 | 91.4 | 93.0 | 94.1 | 95.5 | 98.4 | 101.4 | 102.7 | 103.1 | 105.3 | 104.8 | 141.6 | |
| HAET16.35 GM/M3 | 2500 | 91.0 | 91.3 | 92.3 | 93.4 | 94.7 | 94.3 | 95.9 | 98.6 | 101.1 | 102.9 | 102.6 | 103.5 | 103.8 | 141.3 | |
| (.01635 KG/M3) | 3150 | 90.5 | 91.3 | 92.6 | 92.6 | 94.0 | 94.6 | 96.0 | 99.4 | 100.4 | 102.0 | 100.9 | 102.1 | 102.3 | 140.6 | |
| FREQ. SHIFT | 4000 | 89.9 | 91.2 | 92.0 | 93.3 | 94.1 | 95.0 | 96.4 | 99.3 | 101.5 | 101.1 | 100.8 | 102.2 | 102.7 | 140.7 | |
| JET 0 | 5000 | 89.2 | 91.5 | 92.3 | 93.1 | 94.9 | 95.5 | 97.4 | 98.8 | 101.8 | 101.2 | 100.9 | 102.5 | 102.8 | 141.1 | |
| DIAMETER RATIO | 6300 | 88.5 | 90.1 | 91.1 | 92.9 | 94.7 | 95.3 | 97.0 | 98.1 | 101.4 | 101.5 | 100.7 | 102.3 | 102.6 | 141.2 | |
| OFF/DH 1 | 8000 | 86.9 | 90.0 | 90.8 | 92.1 | 94.9 | 94.2 | 96.4 | 99.1 | 100.8 | 100.7 | 99.9 | 102.5 | 102.0 | 140.9 | |
| | 10000 | 84.8 | 88.7 | 89.4 | 91.1 | 93.1 | 92.7 | 95.4 | 96.2 | 94.6 | 99.0 | 93.7 | 100.3 | 100.2 | 139.7 | |
| | 12500 | 83.3 | 87.8 | 88.7 | 90.6 | 92.7 | 91.8 | 94.9 | 94.7 | 98.0 | 96.9 | 96.6 | 98.6 | 98.3 | 139.1 | |
| | 16000 | 80.9 | 85.5 | 86.6 | 88.7 | 92.5 | 91.1 | 94.0 | 91.8 | 94.8 | 93.6 | 93.2 | 95.7 | 96.1 | 137.9 | |
| | 20000 | 80.4 | 84.2 | 85.3 | 88.9 | 92.1 | 91.3 | 92.1 | 91.5 | 92.6 | 89.7 | 91.0 | 90.9 | 93.0 | 137.6 | |
| | 25000 | 79.1 | 83.4 | 85.5 | 89.5 | 93.0 | 93.0 | 95.2 | 91.8 | 91.3 | 87.1 | 86.8 | 90.8 | 90.3 | 140.2 | |
| | 31500 | 72.9 | 77.7 | 81.7 | 84.8 | 87.9 | 88.9 | 92.6 | 89.7 | 89.2 | 85.8 | 83.6 | 86.6 | 85.9 | 140.2 | |
| | 40000 | 64.6 | 70.7 | 74.0 | 76.6 | 77.5 | 79.4 | 81.4 | 81.3 | 82.6 | 78.7 | 77.9 | 78.0 | 77.9 | 135.6 | |
| | 50000 | 55.4 | 60.0 | 65.1 | 67.6 | 68.9 | 69.8 | 71.1 | 71.6 | 72.8 | 69.8 | 69.4 | 69.2 | 71.1 | 132.5 | |
| | 63000 | 48.8 | 52.8 | 59.0 | 60.5 | 63.4 | 65.5 | 64.4 | 65.5 | 64.4 | 65.5 | 61.7 | 61.3 | 60.8 | 134.6 | |
| | 80000 | 100.4 | 102.2 | 103.1 | 104.3 | 106.2 | 106.6 | 108.4 | 110.2 | 112.7 | 115.0 | 114.3 | 121.5 | 121.1 | 156.3 | |

OVERALL MEASURED

OVERALL CALCULATED 100.4 102.2 103.1 104.3 106.2 106.6 108.4 110.2 112.7 115.0 114.3 121.5 121.1

PMDB 113.6 114.8 115.8 116.7 118.2 118.6 120.1 122.8 125.0 127.1 128.6 131.0 131.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **4** TEST POINT **44** ACOUSTIC RANGE **12.2m(40ft.)** ARC

SIZE **MODEL-145cm²(22.4in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PWL |
|--------------------|--|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | |
| NO EGA | 50 | 80.4 | 83.9 | 85.4 | 86.8 | 153.2 |
| RDG. NO. | 63 | 81.8 | 86.5 | 87.1 | 90.2 | 155.4 |
| RADIAL 150. FT. | 80 | 84.1 | 85.6 | 87.6 | 89.7 | 157.1 |
| (46. M) | 100 | 84.6 | 86.2 | 87.2 | 90.0 | 158.5 |
| VEHICLE CELL41 | 125 | 86.0 | 87.5 | 87.8 | 91.4 | 159.3 |
| CONFIG NC56 | 160 | 87.8 | 88.5 | 89.5 | 92.9 | 159.7 |
| LOC C41 ANECH CH | 200 | 90.8 | 91.4 | 92.9 | 93.7 | 158.8 |
| DATE 06-14-76 | 250 | 90.2 | 90.5 | 92.7 | 94.3 | 158.7 |
| RUN CONF4HIGHFLW | 315 | 89.5 | 91.3 | 93.9 | 95.0 | 157.5 |
| TAPE X04410 | 400 | 90.1 | 90.9 | 92.4 | 92.9 | 156.2 |
| BAR 29.4 HG | 500 | 91.7 | 93.2 | 93.8 | 93.5 | 155.1 |
| (99144. N/M2) | 630 | 93.2 | 93.5 | 94.5 | 92.5 | 154.9 |
| TAMB 77. DEG F | 800 | 92.8 | 93.6 | 94.9 | 96.2 | 154.2 |
| (298. DEG K) | 1000 | 92.2 | 93.5 | 94.3 | 95.5 | 154.3 |
| TWET 70. DEG F | 1250 | 91.6 | 93.9 | 94.7 | 95.4 | 154.7 |
| (294. DEG K) | 1600 | 91.0 | 92.6 | 93.6 | 94.8 | 154.8 |
| HACT16.35 GH/M3 | 2000 | 89.6 | 92.7 | 93.6 | 94.8 | 154.5 |
| (.01635 KG/M3) | 2500 | 87.8 | 91.8 | 92.4 | 94.2 | 153.3 |
| FREQ. SHIFT | 3150 | 86.9 | 91.4 | 92.3 | 94.3 | 152.7 |
| JET 7 | 4000 | 85.3 | 89.8 | 90.9 | 93.1 | 151.5 |
| DIAMETER RATIO | 5000 | 86.1 | 89.8 | 90.9 | 94.5 | 151.2 |
| DF/DM 4.78 | 6300 | 86.3 | 90.6 | 92.7 | 96.7 | 153.8 |
| OVERALL CALCULATED | 8000 | 82.5 | 87.2 | 91.3 | 94.3 | 153.8 |
| | 10000 | 77.2 | 83.3 | 86.6 | 89.2 | 149.2 |
| | 12500 | 72.5 | 77.1 | 82.1 | 84.6 | 146.0 |
| | 16000 | 72.2 | 76.2 | 82.4 | 82.4 | 148.2 |
| | PND8 | 113.5 | 116.7 | 117.9 | 119.8 | 169.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 4 441 45.7m(150ft.) ARC FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | FROM INLET IN DEGREES (AND RADIAN) | | | | REL. HUM. DAY | | | | |
|--|---|--------|--------|--------|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| 50 | 52.2 | 57.3 | 59.9 | 60.2 | 62.5 | 64.2 | 66.5 | 67.7 | 68.2 | 71.9 | 76.5 | 77.7 | 75.3 |
| 63 | 53.5 | 59.9 | 59.0 | 62.2 | 65.8 | 66.5 | 67.8 | 69.0 | 70.5 | 73.9 | 78.6 | 80.0 | 77.3 |
| 80 | 55.7 | 58.8 | 61.9 | 63.0 | 65.2 | 66.2 | 67.5 | 69.7 | 72.2 | 76.2 | 81.0 | 81.7 | 78.1 |
| 100 | 56.2 | 59.3 | 61.5 | 63.2 | 65.5 | 67.0 | 68.5 | 70.7 | 72.7 | 78.2 | 82.5 | 83.1 | 78.8 |
| 125 | 57.4 | 60.6 | 62.0 | 64.2 | 66.8 | 68.0 | 70.0 | 71.7 | 74.5 | 77.4 | 82.7 | 84.3 | 78.6 |
| 160 | 59.0 | 61.4 | 63.6 | 66.1 | 68.2 | 69.7 | 70.9 | 72.9 | 75.6 | 79.0 | 83.1 | 83.8 | 79.0 |
| 200 | 61.9 | 64.1 | 66.8 | 67.6 | 68.9 | 70.4 | 71.6 | 73.6 | 75.5 | 79.4 | 81.4 | 82.1 | 78.2 |
| 250 | 61.0 | 63.0 | 66.4 | 67.3 | 69.3 | 70.8 | 72.0 | 74.5 | 76.4 | 79.1 | 80.5 | 81.9 | 77.1 |
| 315 | 60.0 | 63.6 | 64.8 | 68.1 | 69.7 | 71.0 | 71.4 | 73.9 | 76.1 | 78.4 | 78.6 | 79.6 | 75.5 |
| 400 | 60.1 | 62.7 | 65.5 | 66.9 | 69.5 | 70.5 | 72.5 | 74.4 | 75.8 | 77.8 | 76.7 | 76.8 | 72.0 |
| 500 | 61.2 | 64.7 | 66.5 | 67.2 | 69.3 | 70.5 | 71.8 | 74.2 | 76.3 | 76.3 | 74.8 | 74.0 | 68.6 |
| 630 | 62.0 | 64.4 | 66.8 | 68.7 | 70.6 | 70.4 | 71.8 | 74.0 | 75.5 | 76.0 | 73.6 | 71.4 | 66.3 |
| 800 | 60.7 | 63.7 | 66.5 | 67.4 | 69.3 | 70.1 | 71.3 | 74.2 | 74.2 | 74.3 | 71.0 | 68.8 | 63.2 |
| 1000 | 59.0 | 62.7 | 65.1 | 67.4 | 68.8 | 69.8 | 71.0 | 73.4 | 74.6 | 72.6 | 69.9 | 67.5 | 61.5 |
| 1250 | 57.0 | 62.0 | 64.5 | 66.4 | 68.8 | 69.6 | 71.3 | 72.1 | 74.0 | 71.6 | 68.7 | 66.2 | 59.0 |
| 1600 | 54.5 | 59.0 | 62.0 | 65.0 | 67.5 | 68.4 | 69.8 | 71.3 | 72.3 | 70.5 | 66.7 | 63.6 | 55.3 |
| 2000 | 50.8 | 57.3 | 60.3 | 62.9 | 66.5 | 66.1 | 68.0 | 68.9 | 70.3 | 68.0 | 63.8 | 61.0 | 50.5 |
| 2500 | 45.7 | 53.6 | 56.7 | 60.0 | 62.9 | 62.8 | 65.2 | 65.1 | 65.9 | 63.9 | 59.6 | 54.8 | 42.6 |
| 3150 | 39.4 | 48.7 | 52.7 | 56.5 | 59.6 | 59.0 | 61.8 | 60.5 | 61.9 | 57.8 | 52.7 | 46.7 | 30.9 |
| 4000 | 29.7 | 40.4 | 45.3 | 49.8 | 54.9 | 53.9 | 56.4 | 52.9 | 53.6 | 48.5 | 41.9 | 34.0 | 14.0 |
| 5000 | 25.8 | 36.5 | 41.9 | 48.1 | 52.8 | 52.5 | 52.8 | 50.8 | 49.2 | 41.9 | 36.3 | 24.4 | 3.1 |
| 6300 | 12.3 | 25.8 | 33.7 | 41.1 | 46.6 | 47.2 | 48.7 | 43.4 | 39.4 | 29.5 | 20.0 | 8.0 | |
| 8000 | 4.8 | 16.7 | 24.6 | 30.3 | 32.2 | 35.0 | 35.0 | 29.6 | 24.3 | 12.9 | | | |
| 10000 | | | | 4.2 | 7.2 | 8.1 | 8.1 | 4.4 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 71.2 | 74.4 | 76.8 | 78.5 | 80.6 | 81.6 | 83.0 | 85.0 | 86.7 | 88.7 | 91.0 | 91.9 | 87.5 |
| PNOB | 76.3 | 80.5 | 83.4 | 85.9 | 88.8 | 89.2 | 90.9 | 92.1 | 93.4 | 93.6 | 93.6 | 93.7 | 88.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 441 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL - 33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 27 HR. 11.9
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160. O. G. O. O. PWL
 FREQ. (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)(3.15)(3.42)(3.69)(4.0)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | O. | G. | O. | O. | PWL |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| 100 | 81.6 | 88.9 | 86.4 | 88.2 | 90.0 | 88.9 | 89.8 | 90.5 | 91.2 | 92.2 | 95.7 | 97.1 | 100.7 | 134.3 | | | | | |
| 125 | 79.8 | 83.6 | 84.9 | 87.2 | 89.5 | 90.4 | 90.7 | 91.4 | 89.9 | 86.9 | 97.9 | 100.6 | 101.9 | 135.5 | | | | | |
| 1600 | 81.1 | 81.7 | 86.2 | 85.7 | 87.0 | 87.2 | 86.3 | 88.5 | 89.2 | 94.5 | 99.7 | 101.4 | 104.7 | 136.7 | | | | | |
| 2000 | 82.8 | 82.3 | 85.6 | 86.9 | 87.0 | 87.0 | 87.0 | 91.3 | 94.0 | 97.1 | 101.6 | 106.8 | 108.8 | 140.5 | | | | | |
| 2500 | 81.1 | 84.1 | 85.6 | 85.9 | 87.7 | 88.3 | 91.0 | 92.6 | 94.8 | 98.4 | 105.9 | 108.8 | 110.6 | 142.7 | | | | | |
| 3150 | 82.4 | 86.9 | 85.2 | 87.5 | 90.6 | 90.9 | 91.8 | 94.0 | 96.4 | 101.0 | 108.0 | 111.9 | 112.7 | 145.2 | | | | | |
| 4000 | 84.9 | 86.2 | 88.0 | 88.0 | 89.6 | 89.9 | 91.8 | 95.0 | 97.7 | 103.3 | 110.5 | 113.4 | 113.5 | 146.7 | | | | | |
| 5000 | 85.0 | 86.0 | 87.3 | 88.6 | 89.9 | 91.8 | 93.2 | 95.3 | 98.8 | 105.6 | 111.3 | 115.0 | 114.0 | 147.9 | | | | | |
| 6300 | 86.4 | 87.6 | 88.6 | 89.7 | 91.3 | 91.9 | 94.3 | 96.9 | 100.4 | 106.0 | 113.2 | 116.1 | 114.4 | 149.8 | | | | | |
| 8000 | 88.6 | 88.9 | 89.9 | 91.5 | 92.8 | 93.9 | 95.5 | 98.2 | 101.9 | 107.2 | 114.2 | 116.6 | 115.2 | 149.7 | | | | | |
| 10000 | 91.7 | 92.7 | 93.7 | 94.0 | 94.1 | 95.2 | 96.1 | 98.3 | 102.2 | 106.8 | 113.8 | 116.5 | 115.5 | 149.7 | | | | | |
| 12500 | 92.0 | 92.6 | 94.1 | 94.6 | 95.5 | 96.6 | 98.2 | 100.6 | 103.3 | 107.4 | 112.6 | 116.8 | 115.3 | 148.6 | | | | | |
| 16000 | 95.9 | 95.4 | 93.9 | 94.5 | 95.6 | 96.4 | 97.6 | 100.2 | 103.4 | 107.3 | 111.2 | 115.6 | 113.7 | 147.7 | | | | | |
| 20000 | 102.4 | 100.0 | 98.7 | 96.5 | 95.9 | 96.0 | 98.4 | 100.8 | 103.2 | 106.8 | 109.3 | 114.4 | 112.0 | 147.0 | | | | | |
| 25000 | 103.8 | 102.3 | 102.6 | 101.4 | 100.0 | 97.6 | 98.2 | 100.6 | 104.4 | 106.2 | 108.1 | 112.1 | 109.3 | 146.7 | | | | | |
| 31500 | 102.5 | 102.3 | 102.6 | 102.9 | 103.2 | 100.8 | 99.4 | 101.4 | 104.3 | 106.4 | 106.9 | 110.5 | 107.6 | 146.7 | | | | | |
| 40000 | 99.8 | 99.8 | 100.9 | 101.6 | 102.2 | 101.8 | 101.2 | 102.4 | 103.9 | 105.2 | 105.2 | 108.8 | 105.8 | 145.8 | | | | | |
| 50000 | 98.4 | 99.0 | 100.5 | 101.4 | 102.0 | 101.9 | 103.3 | 104.0 | 104.4 | 104.4 | 104.5 | 108.5 | 105.2 | 145.5 | | | | | |
| 63000 | 98.0 | 98.8 | 98.8 | 99.3 | 100.4 | 101.5 | 102.4 | 103.6 | 104.8 | 103.9 | 104.1 | 107.3 | 104.8 | 145.3 | | | | | |
| 80000 | 97.2 | 97.8 | 97.9 | 99.4 | 100.7 | 100.8 | 102.5 | 103.1 | 105.4 | 104.0 | 103.7 | 106.3 | 103.8 | 145.3 | | | | | |
| 100000 | 94.6 | 97.2 | 97.3 | 98.8 | 100.4 | 99.2 | 101.1 | 102.6 | 104.1 | 103.5 | 102.1 | 105.5 | 102.7 | 146.6 | | | | | |
| 125000 | 92.3 | 94.3 | 95.1 | 96.8 | 98.9 | 98.5 | 100.9 | 100.5 | 102.4 | 101.3 | 100.7 | 103.3 | 100.8 | 143.4 | | | | | |
| 160000 | 89.8 | 92.3 | 93.2 | 96.1 | 98.4 | 97.0 | 99.9 | 99.2 | 101.2 | 99.4 | 98.6 | 101.8 | 99.3 | 142.9 | | | | | |
| 200000 | 87.2 | 89.0 | 91.1 | 93.5 | 96.7 | 95.6 | 98.2 | 96.5 | 98.3 | 95.9 | 93.2 | 98.7 | 97.1 | 141.5 | | | | | |
| 250000 | 85.9 | 87.4 | 88.0 | 91.1 | 94.1 | 93.8 | 96.6 | 94.5 | 96.3 | 92.4 | 93.5 | 93.4 | 94.2 | 140.3 | | | | | |
| 315000 | 83.1 | 84.9 | 87.0 | 90.8 | 93.3 | 93.3 | 93.3 | 93.3 | 93.6 | 90.1 | 89.6 | 94.0 | 91.5 | 141.4 | | | | | |
| 400000 | 77.2 | 79.4 | 83.5 | 86.0 | 88.1 | 88.4 | 91.6 | 89.7 | 90.2 | 87.3 | 85.9 | 88.8 | 87.4 | 140.4 | | | | | |
| 500000 | 69.4 | 71.9 | 75.8 | 78.6 | 79.0 | 80.1 | 82.1 | 81.3 | 83.1 | 80.2 | 81.1 | 82.2 | 80.1 | 136.8 | | | | | |
| 630000 | 62.4 | 63.5 | 69.3 | 71.8 | 72.4 | 72.3 | 75.1 | 72.8 | 75.1 | 73.6 | 73.9 | 74.5 | 72.8 | 133.7 | | | | | |
| 800000 | 58.1 | 57.5 | 65.0 | 65.8 | 67.0 | 66.4 | 69.8 | 65.9 | 68.5 | 66.9 | 66.8 | 66.8 | 63.4 | 138.8 | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | |
| PNDB 110.2 109.9 110.2 110.7 111.6 111.2 112.3 113.5 115.7 118.0 122.4 125.9 124.6 | | | | | | | | | | | | | | | | | | | |
| PNDB 123.5 123.4 123.7 124.1 124.6 124.0 124.3 125.9 128.0 130.3 132.7 136.5 134.7 | | | | | | | | | | | | | | | | | | | |

CONFIGURATION 4 TEST POINT 442 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

| RDG. NO. | NO. EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | DIAMETER | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | PHL | | |
|--------------------|---------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|-----|-----|-----|--|--|
| | | | | | | | | | | | | | | 40. | 50. | 60. | | | |
| 50 | 83.2 | 86.2 | 87.7 | 88.0 | 89.8 | 90.4 | 93.1 | 94.7 | 96.9 | 100.5 | 108.0 | 110.9 | 112.7 | 156.3 | | | | | |
| 63 | 84.5 | 89.0 | 87.3 | 89.6 | 93.0 | 93.9 | 96.1 | 98.5 | 103.1 | 110.1 | 114.0 | 114.8 | 158.7 | | | | | | |
| 80 | 87.1 | 88.3 | 90.1 | 91.7 | 92.8 | 94.0 | 97.1 | 99.8 | 105.4 | 112.6 | 115.5 | 115.6 | 160.3 | | | | | | |
| 100 | 87.1 | 88.2 | 89.4 | 90.7 | 92.0 | 93.9 | 95.3 | 97.4 | 100.9 | 107.7 | 113.4 | 117.1 | 116.2 | 161.5 | | | | | |
| 125 | 88.5 | 89.8 | 90.8 | 91.8 | 93.4 | 94.0 | 96.4 | 99.0 | 102.5 | 108.1 | 115.3 | 118.2 | 116.5 | 162.6 | | | | | |
| 160 | 90.8 | 91.0 | 92.0 | 93.6 | 94.9 | 96.0 | 97.7 | 100.3 | 104.0 | 109.4 | 116.3 | 118.7 | 117.3 | 163.4 | | | | | |
| 200 | 93.8 | 94.9 | 95.9 | 96.2 | 96.2 | 97.4 | 98.2 | 101.4 | 104.4 | 108.9 | 115.9 | 118.6 | 117.6 | 163.3 | | | | | |
| 250 | 94.2 | 94.7 | 96.2 | 96.7 | 97.6 | 98.7 | 100.3 | 102.7 | 105.5 | 109.5 | 114.7 | 118.9 | 117.5 | 163.3 | | | | | |
| 315 | 98.0 | 97.6 | 96.1 | 96.6 | 97.7 | 98.6 | 99.7 | 102.4 | 105.6 | 109.4 | 113.4 | 117.8 | 115.8 | 162.2 | | | | | |
| 400 | 104.6 | 102.1 | 100.9 | 98.7 | 98.0 | 98.1 | 100.5 | 102.9 | 105.4 | 109.0 | 111.4 | 116.6 | 114.1 | 161.3 | | | | | |
| 500 | 105.9 | 104.5 | 104.8 | 103.5 | 102.1 | 99.7 | 100.4 | 102.8 | 106.5 | 108.3 | 110.3 | 114.2 | 111.5 | 160.6 | | | | | |
| 630 | 104.7 | 104.5 | 104.8 | 105.0 | 105.4 | 103.0 | 101.6 | 103.5 | 106.5 | 108.6 | 109.1 | 112.7 | 109.7 | 160.3 | | | | | |
| 800 | 102.0 | 102.1 | 103.1 | 103.9 | 104.5 | 104.1 | 103.5 | 104.6 | 106.1 | 107.5 | 107.4 | 111.1 | 108.1 | 159.4 | | | | | |
| 1000 | 100.7 | 101.2 | 102.0 | 102.8 | 103.6 | 104.2 | 104.1 | 105.5 | 106.6 | 106.6 | 106.8 | 110.7 | 107.5 | 159.1 | | | | | |
| 1250 | 100.3 | 101.1 | 101.2 | 101.7 | 102.8 | 103.9 | 104.8 | 105.9 | 107.2 | 106.3 | 106.5 | 109.6 | 107.1 | 158.9 | | | | | |
| 1600 | 99.7 | 100.3 | 100.4 | 101.9 | 103.2 | 103.3 | 105.0 | 105.6 | 107.9 | 106.5 | 106.2 | 108.8 | 106.3 | 158.9 | | | | | |
| 2000 | 97.4 | 100.0 | 100.1 | 101.5 | 103.1 | 102.0 | 103.9 | 105.3 | 106.8 | 106.2 | 104.9 | 108.2 | 105.5 | 158.2 | | | | | |
| 4000 | 95.3 | 97.3 | 98.2 | 99.9 | 102.0 | 101.6 | 104.0 | 103.6 | 105.4 | 104.4 | 103.8 | 106.3 | 103.8 | 157.0 | | | | | |
| 2500 | 95.4 | 93.3 | 95.4 | 97.8 | 101.1 | 99.9 | 102.6 | 100.9 | 102.7 | 100.2 | 99.6 | 103.0 | 101.4 | 155.0 | | | | | |
| 3150 | 91.5 | 93.3 | 95.4 | 97.8 | 101.1 | 99.9 | 102.6 | 100.9 | 102.7 | 100.2 | 99.6 | 103.0 | 101.4 | 155.0 | | | | | |
| 5000 | 91.6 | 93.1 | 93.7 | 96.7 | 99.7 | 99.5 | 100.2 | 100.1 | 101.9 | 98.0 | 99.1 | 99.0 | 99.8 | 153.8 | | | | | |
| 6500 | 90.3 | 92.1 | 94.2 | 98.0 | 100.5 | 100.5 | 102.9 | 100.7 | 100.8 | 97.3 | 96.8 | 101.2 | 98.7 | 155.0 | | | | | |
| 8000 | 86.7 | 89.0 | 93.0 | 95.6 | 97.7 | 98.0 | 100.9 | 99.3 | 99.8 | 96.8 | 95.4 | 98.4 | 97.0 | 154.0 | | | | | |
| 10000 | 82.0 | 84.5 | 88.4 | 91.2 | 91.6 | 92.7 | 94.7 | 93.9 | 95.7 | 92.8 | 93.7 | 94.8 | 92.7 | 150.4 | | | | | |
| 12500 | 79.5 | 80.6 | 86.4 | 88.9 | 89.4 | 89.4 | 92.2 | 89.9 | 92.1 | 90.6 | 91.0 | 91.6 | 89.9 | 149.3 | | | | | |
| 16000 | 81.5 | 80.9 | 88.4 | 89.1 | 90.4 | 89.8 | 93.2 | 89.3 | 91.9 | 90.3 | 90.2 | 88.8 | 88.8 | 152.4 | | | | | |
| OVERALL CALCULATED | 112.5 | 112.3 | 112.7 | 113.3 | 114.3 | 114.0 | 115.2 | 116.1 | 118.3 | 120.3 | 124.6 | 128.0 | 126.6 | 173.7 | | | | | |
| PND8 | 121.4 | 122.5 | 123.1 | 124.8 | 126.6 | 125.9 | 128.0 | 128.1 | 130.1 | 130.0 | 131.3 | 134.6 | 132.9 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 442 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
SIDE LINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | (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.) |
| 63 | 55.0 | 59.6 | 62.2 | 63.2 | 65.5 | 66.2 | 68.7 | 69.9 | 71.4 | 73.9 | 79.8 | 80.5 | 78.8 | 0.) |
| 80 | 56.3 | 62.4 | 61.6 | 64.4 | 65.2 | 67.2 | 68.5 | 69.5 | 72.2 | 74.2 | 78.7 | 84.3 | 81.4 | 0.) |
| 100 | 58.7 | 61.3 | 63.7 | 65.7 | 67.5 | 69.5 | 70.7 | 72.5 | 75.2 | 80.9 | 85.0 | 86.3 | 81.8 | 0.) |
| 125 | 59.9 | 62.8 | 65.0 | 66.7 | 68.8 | 69.5 | 71.8 | 74.0 | 76.7 | 81.2 | 86.7 | 87.3 | 81.9 | 0.) |
| 160 | 62.0 | 63.9 | 66.1 | 68.4 | 70.2 | 71.4 | 72.9 | 75.1 | 78.1 | 82.3 | 87.6 | 82.3 | 81.9 | 0.) |
| 200 | 64.9 | 67.6 | 69.8 | 70.8 | 71.4 | 72.6 | 73.4 | 76.1 | 78.3 | 81.7 | 86.9 | 87.1 | 82.2 | 0.) |
| 250 | 65.0 | 67.2 | 69.9 | 71.3 | 72.5 | 73.8 | 75.3 | 77.3 | 79.2 | 82.1 | 85.5 | 87.1 | 81.6 | 0.) |
| 315 | 68.5 | 69.8 | 70.9 | 72.4 | 73.5 | 74.4 | 76.6 | 79.1 | 81.7 | 83.8 | 85.6 | 85.6 | 79.3 | 0.) |
| 400 | 74.6 | 74.0 | 74.0 | 72.7 | 72.5 | 72.7 | 75.0 | 76.9 | 78.5 | 80.8 | 81.4 | 83.8 | 76.7 | 0.) |
| 500 | 75.4 | 75.9 | 77.5 | 77.2 | 76.3 | 74.0 | 74.5 | 76.4 | 79.3 | 79.8 | 79.8 | 80.7 | 73.1 | 0.) |
| 630 | 73.5 | 75.4 | 77.0 | 78.2 | 79.1 | 76.9 | 75.3 | 76.7 | 78.8 | 79.5 | 77.9 | 78.4 | 70.1 | 0.) |
| 800 | 69.9 | 72.2 | 74.7 | 76.4 | 77.6 | 77.4 | 76.6 | 77.2 | 77.7 | 77.6 | 75.3 | 75.5 | 66.7 | 0.) |
| 1000 | 67.5 | 70.4 | 72.8 | 74.6 | 76.0 | 76.8 | 76.5 | 77.4 | 77.1 | 75.8 | 73.6 | 73.8 | 64.0 | 0.) |
| 1250 | 65.8 | 69.2 | 71.0 | 72.6 | 74.3 | 75.6 | 76.3 | 76.9 | 77.0 | 74.4 | 71.9 | 70.9 | 61.0 | 0.) |
| 1600 | 63.2 | 66.8 | 68.8 | 71.5 | 73.5 | 73.9 | 75.3 | 76.3 | 76.3 | 73.0 | 69.7 | 67.6 | 56.5 | 0.) |
| 2000 | 58.6 | 64.5 | 66.8 | 69.6 | 72.0 | 71.1 | 72.7 | 73.4 | 73.5 | 70.8 | 66.1 | 64.0 | 51.2 | 0.) |
| 2500 | 53.2 | 59.1 | 62.4 | 65.7 | 68.7 | 68.6 | 70.7 | 69.4 | 69.7 | 66.1 | 61.6 | 57.8 | 43.1 | 0.) |
| 3150 | 45.9 | 53.2 | 57.2 | 62.0 | 65.3 | 66.8 | 65.0 | 65.2 | 60.3 | 54.7 | 49.9 | 31.9 | 15.0 | 0.) |
| 4000 | 35.9 | 43.9 | 49.8 | 54.6 | 59.2 | 58.4 | 60.7 | 57.7 | 57.1 | 50.7 | 43.9 | 37.0 | 15.0 | 0.) |
| 5000 | 31.3 | 39.7 | 44.6 | 50.4 | 54.8 | 55.0 | 55.3 | 53.8 | 52.9 | 44.7 | 38.8 | 26.9 | 4.4 | 0.) |
| 6300 | 16.3 | 27.3 | 35.2 | 42.4 | 46.8 | 47.4 | 49.2 | 45.2 | 41.7 | 32.5 | 22.7 | 11.3 | 0.) | 0.) |
| 8000 | | 6.6 | 18.5 | 25.8 | 30.5 | 31.7 | 33.8 | 29.6 | 25.3 | 14.4 | 0.3 | | | |
| 10000 | | | | 1.8 | 5.7 | 7.9 | 8.8 | 4.4 | | | | | | |
| 12500 | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 81.0 | 82.4 | 84.0 | 85.0 | 86.1 | 86.0 | 86.6 | 87.9 | 89.6 | 91.7 | 95.2 | 96.1 | 91.1 | |
| PNDB | 86.7 | 88.7 | 90.7 | 92.3 | 94.0 | 94.0 | 95.2 | 95.7 | 96.8 | 96.6 | 98.1 | 98.7 | 92.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 442 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL - .33m²(513in²) SIZE

PROC. DATE - MONTH 8 DAY 27 HR. 11.9
 F, 70 PERCENT REL. HUM. DAY - JEMOITS)

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

FREQ. (0.703)(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)(3.15)(3.42)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PHL
 (0.703)(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)(3.15)(3.42)

| RDG. NO. | NO EGA | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 | OVERALL MEASURED | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|
| 100 | 76.6 | 85.9 | 84.5 | 86.0 | 85.4 | 86.3 | 87.0 | 87.7 | 88.7 | 89.7 | 90.7 | 91.5 | 92.3 | 93.0 | 93.8 | 94.5 | 95.2 | 95.8 | 96.5 | 97.1 | 97.7 | 98.3 | 98.9 |
| 125 | 75.3 | 80.4 | 81.1 | 83.2 | 84.7 | 86.4 | 87.0 | 87.9 | 88.8 | 89.7 | 90.6 | 91.4 | 92.1 | 92.8 | 93.4 | 94.0 | 94.6 | 95.1 | 95.7 | 96.2 | 96.7 | 97.2 | 97.7 |
| 160 | 78.3 | 79.0 | 80.0 | 82.3 | 83.0 | 85.2 | 85.7 | 86.2 | 86.7 | 87.2 | 87.7 | 88.2 | 88.7 | 89.2 | 89.7 | 90.2 | 90.7 | 91.2 | 91.7 | 92.2 | 92.7 | 93.2 | 93.7 |
| 200 | 77.3 | 80.8 | 81.8 | 82.1 | 83.5 | 84.6 | 85.2 | 85.7 | 86.2 | 86.7 | 87.2 | 87.7 | 88.2 | 88.7 | 89.2 | 89.7 | 90.2 | 90.7 | 91.2 | 91.7 | 92.2 | 92.7 | 93.2 |
| 250 | 78.7 | 83.4 | 82.2 | 84.2 | 86.3 | 87.9 | 88.8 | 89.7 | 90.6 | 91.5 | 92.4 | 93.3 | 94.2 | 95.1 | 96.0 | 96.9 | 97.8 | 98.7 | 99.6 | 100.5 | 101.4 | 102.3 | 103.2 |
| 315 | 81.2 | 83.2 | 85.0 | 84.8 | 86.3 | 87.2 | 88.8 | 89.7 | 90.6 | 91.5 | 92.4 | 93.3 | 94.2 | 95.1 | 96.0 | 96.9 | 97.8 | 98.7 | 99.6 | 100.5 | 101.4 | 102.3 | 103.2 |
| 400 | 81.3 | 83.0 | 84.0 | 85.6 | 86.9 | 88.8 | 89.7 | 90.6 | 91.5 | 92.4 | 93.3 | 94.2 | 95.1 | 96.0 | 96.9 | 97.8 | 98.7 | 99.6 | 100.5 | 101.4 | 102.3 | 103.2 | 104.1 |
| 500 | 83.1 | 84.4 | 85.1 | 86.7 | 88.3 | 89.6 | 91.3 | 93.9 | 95.2 | 96.9 | 98.6 | 101.2 | 106.9 | 109.4 | 108.4 | 108.4 | 108.4 | 108.4 | 108.4 | 108.4 | 108.4 | 108.4 | 108.4 |
| 630 | 83.6 | 85.7 | 86.4 | 88.0 | 89.5 | 90.7 | 92.0 | 95.2 | 98.2 | 102.0 | 106.9 | 109.1 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 |
| 800 | 85.5 | 87.7 | 88.5 | 89.3 | 89.6 | 91.5 | 93.6 | 96.0 | 98.5 | 102.1 | 105.0 | 107.5 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 |
| 1000 | 85.0 | 87.1 | 89.1 | 89.6 | 90.2 | 92.3 | 94.0 | 96.9 | 99.1 | 102.2 | 104.1 | 106.5 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 |
| 1250 | 85.1 | 88.2 | 88.7 | 90.5 | 91.8 | 93.2 | 94.3 | 96.5 | 99.2 | 102.5 | 103.2 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 |
| 1600 | 84.9 | 87.2 | 88.7 | 89.5 | 91.4 | 92.5 | 94.4 | 97.3 | 99.5 | 101.8 | 101.8 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 |
| 2000 | 85.5 | 87.8 | 89.4 | 89.4 | 91.5 | 92.3 | 94.2 | 97.6 | 100.1 | 100.9 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 |
| 2500 | 84.8 | 87.8 | 89.6 | 90.6 | 92.2 | 93.1 | 95.2 | 97.6 | 99.8 | 100.4 | 100.1 | 99.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| 3150 | 84.3 | 87.1 | 89.1 | 90.4 | 91.5 | 92.6 | 94.7 | 98.1 | 99.4 | 100.2 | 98.9 | 98.3 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 |
| 4000 | 83.9 | 87.2 | 88.8 | 90.3 | 91.4 | 93.2 | 94.9 | 98.3 | 99.3 | 99.4 | 98.5 | 99.2 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 |
| 5000 | 83.2 | 87.3 | 88.3 | 90.3 | 91.7 | 93.8 | 95.9 | 99.6 | 99.6 | 99.6 | 98.4 | 100.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 |
| 6300 | 82.7 | 86.1 | 87.6 | 90.6 | 92.0 | 93.3 | 95.7 | 97.1 | 99.4 | 99.4 | 99.5 | 97.9 | 100.1 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| 8000 | 81.1 | 84.5 | 87.3 | 89.3 | 91.9 | 92.2 | 94.9 | 97.1 | 98.8 | 96.7 | 97.4 | 100.7 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| 10000 | 79.5 | 84.5 | 86.1 | 88.3 | 90.1 | 91.2 | 93.9 | 95.5 | 97.1 | 96.8 | 95.9 | 98.3 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| 12500 | 78.5 | 83.5 | 85.5 | 88.6 | 90.2 | 90.0 | 93.4 | 93.2 | 96.0 | 95.2 | 94.1 | 97.3 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| 16000 | 77.4 | 81.5 | 83.8 | 87.0 | 90.2 | 89.8 | 92.5 | 90.3 | 93.3 | 91.4 | 90.2 | 93.9 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 |
| 20000 | 75.9 | 81.2 | 83.0 | 86.9 | 90.4 | 90.6 | 92.1 | 90.7 | 91.6 | 88.4 | 88.3 | 89.4 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 |
| 25000 | 74.6 | 79.7 | 82.8 | 87.0 | 90.8 | 91.3 | 94.9 | 92.5 | 91.8 | 86.8 | 84.8 | 88.5 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 |
| 31500 | 68.7 | 74.7 | 78.0 | 81.8 | 84.1 | 86.2 | 89.9 | 88.5 | 89.5 | 85.0 | 81.4 | 84.1 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 |
| 40000 | 59.1 | 64.4 | 68.8 | 71.9 | 72.3 | 74.9 | 77.1 | 77.3 | 79.1 | 76.0 | 73.9 | 75.2 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 |
| 50000 | 50.4 | 56.3 | 61.1 | 64.1 | 64.6 | 67.0 | 68.6 | 70.1 | 70.1 | 67.5 | 65.4 | 66.2 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 |
| 63000 | 41.6 | 48.0 | 52.8 | 56.5 | 56.5 | 59.6 | 63.0 | 62.9 | 63.8 | 62.7 | 59.1 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 |
| 80000 | 96.4 | 99.5 | 100.7 | 102.3 | 104.0 | 105.1 | 107.2 | 109.2 | 111.2 | 113.2 | 116.0 | 118.1 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 |
| OVERALL CALCULATED | 108.9 | 111.9 | 113.3 | 114.5 | 116.0 | 117.1 | 119.0 | 121.7 | 123.6 | 125.1 | 126.2 | 127.1 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **4** TEST POINT **443** ACOUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-145cm²(22.4in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | PROC. DATE - MONTH 8 DAY 27 HR. 12.2 | | | | | | | | | | | | | |
|--------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. |
| NO EGA | (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) | (2.97) |
| RDG. NO. | 50 | 79.4 | 82.9 | 83.9 | 84.2 | 85.6 | 86.7 | 89.8 | 91.5 | 92.7 | 97.5 | 104.0 | 106.4 | 107.4 |
| RADIAL 150. FT. | 63 | 80.8 | 85.5 | 84.3 | 86.3 | 88.4 | 90.0 | 90.9 | 92.8 | 95.0 | 99.9 | 105.8 | 109.5 | 109.5 |
| (46. M) | 80 | 83.3 | 87.3 | 87.1 | 86.9 | 88.5 | 89.3 | 91.0 | 94.1 | 96.8 | 101.6 | 108.6 | 110.5 | 109.8 |
| VEHICLE | 100 | 83.4 | 85.2 | 86.2 | 87.7 | 89.0 | 90.9 | 91.8 | 94.9 | 97.7 | 103.0 | 108.7 | 111.4 | 110.2 |
| CELL41 | 125 | 85.2 | 86.5 | 87.3 | 88.8 | 90.4 | 91.8 | 93.4 | 96.0 | 98.8 | 103.3 | 109.0 | 111.5 | 110.5 |
| NC56 | 160 | 85.8 | 87.8 | 88.5 | 90.1 | 91.7 | 92.8 | 94.2 | 97.3 | 100.3 | 104.1 | 109.1 | 111.2 | 110.3 |
| LOC C41 ANECH CH | 200 | 87.6 | 89.9 | 90.6 | 91.4 | 92.3 | 93.6 | 95.7 | 98.2 | 100.6 | 104.2 | 107.1 | 109.6 | 109.4 |
| DATE 06-14-76 | 250 | 87.2 | 89.2 | 91.2 | 91.7 | 92.7 | 94.0 | 96.1 | 99.0 | 101.2 | 104.3 | 106.2 | 108.4 | 107.5 |
| RUN CONF4HIGHFLW | 315 | 87.3 | 90.3 | 90.8 | 92.6 | 94.0 | 95.3 | 96.5 | 98.6 | 101.3 | 104.7 | 105.4 | 106.0 | 106.1 |
| X04430 | 400 | 87.1 | 89.4 | 90.9 | 91.7 | 93.5 | 94.6 | 96.5 | 99.4 | 101.6 | 104.0 | 103.9 | 104.1 | 103.1 |
| BAR 29.4 HG | 500 | 87.7 | 90.0 | 91.5 | 91.5 | 93.6 | 94.5 | 96.4 | 99.8 | 102.3 | 103.1 | 102.8 | 102.7 | 101.2 |
| (99144. N/M2) | 630 | 87.0 | 90.0 | 91.8 | 92.6 | 94.4 | 95.2 | 97.4 | 99.8 | 102.0 | 102.6 | 102.3 | 101.5 | 100.5 |
| TAMB 77. DEG F | 800 | 86.5 | 89.3 | 91.4 | 92.6 | 93.7 | 94.8 | 97.0 | 100.4 | 101.6 | 102.5 | 101.2 | 100.6 | 99.1 |
| (298. DEG K) | 1000 | 86.2 | 89.5 | 91.0 | 92.5 | 93.6 | 95.5 | 97.1 | 100.5 | 101.5 | 101.6 | 100.8 | 101.4 | 100.7 |
| TWET 70. DEG F | 1250 | 85.6 | 89.6 | 90.7 | 92.7 | 94.0 | 96.1 | 98.3 | 99.9 | 101.9 | 101.5 | 100.7 | 102.6 | 101.6 |
| (294. DEG K) | 1600 | 85.2 | 88.6 | 90.1 | 93.1 | 94.5 | 95.8 | 98.2 | 99.6 | 101.9 | 101.5 | 100.1 | 103.5 | 101.7 |
| HACT16.35 GM/M3 | 2000 | 83.9 | 89.2 | 90.1 | 92.0 | 94.6 | 95.0 | 97.6 | 99.8 | 101.6 | 101.5 | 100.1 | 103.5 | 101.7 |
| (.01635 KG/M3) | 2500 | 82.6 | 87.6 | 89.2 | 91.4 | 93.2 | 94.3 | 97.0 | 98.6 | 100.2 | 99.9 | 99.0 | 101.3 | 101.1 |
| FREQ. SHIFT | 3150 | 82.2 | 87.2 | 89.1 | 92.3 | 93.8 | 93.7 | 97.1 | 96.8 | 99.6 | 98.8 | 97.7 | 101.0 | 99.7 |
| JET | 4000 | 81.8 | 85.8 | 88.2 | 91.3 | 94.6 | 94.2 | 96.8 | 94.6 | 97.7 | 95.7 | 94.6 | 98.3 | 98.2 |
| DIAMETER RATIO | 5000 | 81.6 | 86.8 | 88.7 | 92.5 | 96.0 | 96.2 | 97.7 | 96.4 | 97.2 | 94.0 | 93.9 | 95.0 | 96.1 |
| DF/DM 4.78 | 6300 | 81.8 | 86.9 | 90.0 | 94.2 | 98.0 | 98.5 | 102.1 | 99.7 | 99.0 | 94.0 | 92.0 | 95.7 | 95.0 |
| OVERALL CALCULATED | 8000 | 78.2 | 84.2 | 87.5 | 91.3 | 93.7 | 95.7 | 99.4 | 98.0 | 99.0 | 94.6 | 90.9 | 93.6 | 93.0 |
| | 10000 | 71.7 | 77.0 | 81.4 | 84.5 | 84.9 | 87.5 | 89.7 | 89.9 | 91.7 | 88.6 | 86.5 | 87.8 | 87.2 |
| | 12500 | 67.5 | 73.4 | 78.1 | 81.1 | 81.7 | 84.1 | 85.7 | 87.1 | 87.1 | 84.4 | 82.5 | 83.3 | 82.6 |
| | 16000 | 65.0 | 71.4 | 76.2 | 79.9 | 79.9 | 83.0 | 86.4 | 86.3 | 87.2 | 86.0 | 80.7 | 82.4 | 82.0 |
| | PND8 | 109.1 | 113.2 | 115.0 | 117.5 | 120.1 | 120.9 | 123.7 | 123.6 | 125.5 | 125.4 | 125.6 | 127.8 | 127.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 443 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| RDG. NO. | NO EGA | RADIAL (12. M) | VEHICLE | CONFIG | LOC | DATE | RUA | TAPE | BAR | TAMB | TWT | HACT | FREQ. | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | | | | | | | | | | | | |
|--------------------|--------|----------------|---------|--------|-----|------|-----|------|-----|------|-----|------|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| 50 | | | | | | | | | | | | | | (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.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PN88 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **Y** TEST POINT **444** ACoustic RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL | | | |
|--------------------|---------------------------------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. | 160. |
| 50 | 82.2 | 85.2 | 86.9 | 87.0 | 88.6 | 89.7 | 92.1 | 94.2 | 95.7 | 100.5 | 106.7 | 109.4 | 111.2 | 155.0 |
| 63 | 83.5 | 88.3 | 86.6 | 89.1 | 91.2 | 92.0 | 93.2 | 95.8 | 97.8 | 102.4 | 108.6 | 112.3 | 113.5 | 157.4 |
| 80 | 85.6 | 87.3 | 89.3 | 89.4 | 91.0 | 92.1 | 93.5 | 96.1 | 99.3 | 105.2 | 110.9 | 113.5 | 113.6 | 158.6 |
| 100 | 86.4 | 87.4 | 89.2 | 90.0 | 91.8 | 93.4 | 94.5 | 97.2 | 100.4 | 106.5 | 111.9 | 115.4 | 114.9 | 160.0 |
| 125 | 87.7 | 88.8 | 89.8 | 91.1 | 93.1 | 94.3 | 96.1 | 98.6 | 102.0 | 106.8 | 112.5 | 116.0 | 115.0 | 160.5 |
| 160 | 89.5 | 90.5 | 91.0 | 93.1 | 94.4 | 95.3 | 97.2 | 99.6 | 103.0 | 107.9 | 112.6 | 115.7 | 115.8 | 160.8 |
| 200 | 92.1 | 93.4 | 93.9 | 94.2 | 95.5 | 96.9 | 98.2 | 100.9 | 103.6 | 107.7 | 110.9 | 114.6 | 115.4 | 160.1 |
| 250 | 91.2 | 92.5 | 94.2 | 95.3 | 96.6 | 97.7 | 98.8 | 102.0 | 105.0 | 107.8 | 110.5 | 114.2 | 115.0 | 159.9 |
| 315 | 91.5 | 93.1 | 93.6 | 95.1 | 96.5 | 98.3 | 99.2 | 101.6 | 104.8 | 108.2 | 109.1 | 113.0 | 114.1 | 159.2 |
| 400 | 92.1 | 93.4 | 95.1 | 95.2 | 96.5 | 98.1 | 99.5 | 102.4 | 105.6 | 108.0 | 107.9 | 111.6 | 112.4 | 158.4 |
| 500 | 95.2 | 94.8 | 95.5 | 95.6 | 97.1 | 98.3 | 99.6 | 102.6 | 106.0 | 107.4 | 107.3 | 111.0 | 111.0 | 158.0 |
| 630 | 96.7 | 97.5 | 97.0 | 97.3 | 98.4 | 98.0 | 100.2 | 103.6 | 106.3 | 107.4 | 107.3 | 110.5 | 110.0 | 158.0 |
| 800 | 95.3 | 96.3 | 97.4 | 97.4 | 98.2 | 98.8 | 100.5 | 104.2 | 105.6 | 107.5 | 105.7 | 109.8 | 109.1 | 157.6 |
| 1000 | 93.2 | 95.2 | 96.3 | 98.0 | 99.1 | 99.5 | 100.6 | 103.8 | 105.5 | 106.6 | 106.1 | 110.2 | 108.7 | 157.5 |
| 1250 | 91.8 | 94.7 | 96.5 | 97.0 | 99.3 | 100.7 | 102.0 | 104.0 | 106.2 | 105.8 | 106.0 | 109.6 | 108.4 | 157.5 |
| 1600 | 91.3 | 93.4 | 94.9 | 97.4 | 99.7 | 100.4 | 102.2 | 104.2 | 106.2 | 106.6 | 106.7 | 108.6 | 107.4 | 157.5 |
| 2000 | 89.6 | 94.0 | 95.1 | 96.3 | 99.6 | 99.2 | 101.4 | 104.1 | 106.3 | 105.7 | 105.6 | 108.0 | 106.5 | 157.1 |
| 2500 | 87.8 | 92.3 | 94.2 | 96.2 | 98.5 | 98.6 | 101.5 | 102.3 | 104.2 | 104.6 | 104.3 | 106.4 | 104.3 | 155.8 |
| 3150 | 87.2 | 91.9 | 93.6 | 96.8 | 98.6 | 98.4 | 101.1 | 101.3 | 103.9 | 103.1 | 102.5 | 105.0 | 102.9 | 155.1 |
| 4000 | 85.8 | 89.8 | 92.4 | 95.0 | 98.8 | 97.9 | 100.6 | 98.9 | 101.2 | 100.4 | 99.8 | 102.8 | 101.4 | 153.7 |
| 5000 | 84.8 | 89.5 | 91.1 | 95.0 | 98.2 | 98.4 | 99.2 | 98.8 | 100.4 | 98.0 | 99.3 | 99.2 | 99.5 | 152.8 |
| 6300 | 84.5 | 89.5 | 92.4 | 95.9 | 99.7 | 99.9 | 101.6 | 99.7 | 99.7 | 97.0 | 96.2 | 100.9 | 99.2 | 154.1 |
| 8000 | 80.4 | 85.6 | 90.1 | 93.0 | 96.3 | 97.3 | 100.1 | 97.9 | 98.6 | 96.9 | 95.0 | 98.3 | 96.1 | 153.0 |
| 10000 | 75.1 | 80.4 | 84.5 | 87.0 | 89.0 | 90.3 | 92.1 | 92.5 | 94.0 | 92.6 | 92.3 | 95.2 | 92.1 | 148.7 |
| 12500 | 72.3 | 76.2 | 81.6 | 83.9 | 85.5 | 87.4 | 88.0 | 88.9 | 90.4 | 89.9 | 90.0 | 90.8 | 88.4 | 147.1 |
| 16000 | 72.8 | 76.2 | 82.7 | 82.5 | 83.7 | 86.3 | 88.0 | 87.9 | 90.7 | 92.1 | 88.5 | 92.3 | 89.1 | 150.2 |
| OVERALL CALCULATED | 104.5 | 106.3 | 107.5 | 108.8 | 110.9 | 111.5 | 113.3 | 113.1 | 117.5 | 119.4 | 121.8 | 125.2 | 125.2 | 171.6 |
| PROB | 114.2 | 117.5 | 119.2 | 121.4 | 123.6 | 123.8 | 125.9 | 126.9 | 129.1 | 129.7 | 130.3 | 133.1 | 132.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 444 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

| NO EGA
SIDE LINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | 210. | 220. | 230. | 240. | | |
| 50 | (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) | (2.97) | (3.14) | (3.32) | (3.49) | (3.67) | (3.84) | (4.02) | (4.19) | (4.37) | |
| 54.0 | 58.6 | 61.4 | 62.2 | 64.2 | 66.2 | 67.7 | 68.8 | 69.4 | 70.2 | 73.9 | 78.5 | 79.0 | 77.3 | 79.5 | 81.7 | 82.9 | 82.9 | 79.4 | 80.5 | 80.4 | 80.4 | 80.4 | 80.4 |
| 63 | 55.3 | 61.6 | 61.0 | 64.2 | 66.8 | 67.8 | 68.8 | 71.0 | 72.2 | 75.7 | 80.3 | 81.7 | 79.5 | 82.9 | 82.9 | 82.9 | 79.4 | 80.5 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| 80 | 57.2 | 60.6 | 63.7 | 64.5 | 66.5 | 67.7 | 69.0 | 71.2 | 73.7 | 78.4 | 82.5 | 82.9 | 79.4 | 80.5 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| 100 | 57.9 | 60.6 | 63.5 | 65.0 | 67.3 | 69.0 | 70.0 | 72.2 | 74.7 | 79.7 | 83.5 | 84.6 | 80.5 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| MFA | 1. RPM | 61.8 | 64.0 | 66.0 | 68.5 | 69.8 | 71.5 | 73.5 | 76.2 | 79.9 | 84.0 | 85.0 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| (0. RAD/SEC) | 63.4 | 65.1 | 67.9 | 69.7 | 70.7 | 72.4 | 74.4 | 77.1 | 80.8 | 83.8 | 84.6 | 80.8 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| MFK | 1. RPM | 63.1 | 66.1 | 67.8 | 68.8 | 70.6 | 72.1 | 73.4 | 75.6 | 77.5 | 80.4 | 82.0 | 83.1 | 80.0 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| (0. RAD/SEC) | 65.0 | 67.9 | 69.8 | 71.6 | 72.8 | 73.8 | 76.5 | 78.7 | 80.3 | 81.3 | 82.4 | 79.1 | 80.0 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| MFD | 7500. RPM | 62.0 | 65.3 | 67.1 | 69.4 | 71.2 | 73.2 | 74.0 | 75.9 | 78.3 | 80.4 | 79.6 | 80.8 | 77.6 | 78.8 | 78.8 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| (785. RAD/SEC) | 62.1 | 65.3 | 68.3 | 69.2 | 71.0 | 72.7 | 74.0 | 76.4 | 78.8 | 79.9 | 77.9 | 78.8 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| AIRFLOW RATIO | 66.7 | 66.2 | 68.3 | 69.2 | 71.3 | 72.5 | 73.8 | 76.2 | 78.8 | 78.8 | 76.8 | 77.5 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 |
| WF/WH 4.78 | 65.5 | 68.4 | 69.3 | 70.5 | 72.1 | 71.9 | 73.8 | 76.7 | 78.6 | 78.3 | 76.1 | 76.1 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 |
| 800 | 63.2 | 66.5 | 69.0 | 70.0 | 71.3 | 72.1 | 73.6 | 76.7 | 77.2 | 77.6 | 73.6 | 74.3 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 |
| VEHICLE | 60.0 | 64.5 | 67.1 | 69.9 | 71.6 | 72.1 | 73.1 | 75.6 | 76.4 | 75.9 | 72.9 | 73.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 |
| CELL41 | 57.3 | 62.7 | 66.3 | 67.9 | 70.9 | 72.4 | 73.6 | 74.9 | 76.0 | 73.9 | 71.5 | 70.9 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 |
| NC56 | 54.8 | 59.8 | 63.3 | 67.1 | 70.1 | 70.9 | 72.6 | 73.8 | 74.6 | 73.0 | 70.2 | 67.4 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 |
| LOC C41 ANECH CH | 50.8 | 58.5 | 61.8 | 64.4 | 68.5 | 68.3 | 70.2 | 72.1 | 73.0 | 70.3 | 66.8 | 63.8 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 |
| DATE 06-14-76 | 45.7 | 54.1 | 58.5 | 62.0 | 65.2 | 65.6 | 68.2 | 68.2 | 68.5 | 66.4 | 62.1 | 57.8 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 |
| RUN CONF4HIGHFLW | 3150 | 39.6 | 49.2 | 53.9 | 59.0 | 61.8 | 62.0 | 64.3 | 63.6 | 64.2 | 60.4 | 54.9 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| TAPE XD4440 | 30.2 | 40.4 | 46.8 | 51.8 | 56.9 | 56.4 | 58.7 | 55.7 | 55.6 | 51.0 | 44.2 | 36.7 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| FAN TIP SPEED | 5000 | 24.5 | 36.2 | 42.1 | 48.6 | 53.3 | 54.0 | 54.3 | 52.5 | 51.4 | 44.7 | 39.0 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| FT/SEC | 6300 | 10.5 | 24.7 | 33.3 | 40.3 | 46.0 | 46.8 | 47.9 | 44.1 | 40.6 | 32.2 | 22.1 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 8000 | 3.2 | 15.6 | 23.2 | 29.2 | 31.0 | 32.9 | 31.0 | 32.9 | 28.2 | 24.1 | 14.6 | 6.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 10000 | 5.5 | 3.1 | 5.5 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 12500 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 |
| OVERALL CALCULATED | 73.3 | 76.5 | 78.7 | 80.4 | 82.5 | 83.6 | 84.9 | 87.1 | 89.0 | 90.7 | 92.3 | 93.1 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 |
| PN8B | 78.5 | 82.6 | 85.1 | 87.9 | 90.8 | 91.5 | 93.1 | 94.6 | 95.9 | 95.8 | 95.2 | 95.4 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 444 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | MO EGA | PROC. DATE - MONTH 8 DAY 27 HR. 11.9 | | | | | | | | | | | | | | |
|--|--------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
| 50 | (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) | (2.96) | (3.14) | (3.31) |
| 63 | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | |
| 100 | 82.4 | 90.9 | 88.7 | 90.0 | 91.5 | 90.9 | 91.8 | 92.7 | 93.7 | 94.0 | 94.2 | 98.9 | 101.9 | | | 136.2 |
| 125 | 80.6 | 85.1 | 86.4 | 88.4 | 91.0 | 92.1 | 92.7 | 93.4 | 92.1 | 90.9 | 100.1 | 102.1 | 103.9 | | | 137.3 |
| 160 | 81.1 | 83.7 | 87.7 | 87.2 | 87.8 | 88.2 | 88.0 | 90.2 | 91.4 | 96.2 | 101.2 | 103.1 | 105.9 | | | 138.2 |
| 200 | 83.3 | 83.8 | 85.5 | 87.3 | 88.2 | 89.0 | 90.4 | 93.1 | 95.8 | 99.1 | 103.8 | 108.3 | 110.5 | | | 142.2 |
| 250 | 82.3 | 85.8 | 87.6 | 87.1 | 88.7 | 89.8 | 92.2 | 94.4 | 96.1 | 100.9 | 107.6 | 110.5 | 112.1 | | | 144.4 |
| 315 | 84.2 | 88.7 | 86.7 | 88.7 | 92.1 | 92.7 | 93.6 | 95.7 | 98.7 | 103.3 | 109.2 | 113.9 | 113.7 | | | 148.7 |
| 400 | 86.2 | 87.7 | 90.0 | 89.5 | 91.8 | 92.2 | 93.8 | 96.8 | 99.7 | 106.3 | 112.5 | 114.9 | 114.7 | | | 148.4 |
| 500 | 87.0 | 87.5 | 89.3 | 89.8 | 91.7 | 93.3 | 94.7 | 97.3 | 101.0 | 107.9 | 113.8 | 116.5 | 115.3 | | | 149.6 |
| 630 | 88.4 | 89.6 | 90.4 | 91.2 | 93.8 | 94.6 | 96.3 | 98.9 | 102.6 | 108.5 | 114.9 | 117.4 | 115.9 | | | 150.5 |
| 800 | 90.4 | 90.9 | 91.7 | 93.0 | 94.5 | 95.7 | 97.0 | 100.0 | 104.4 | 109.2 | 115.7 | 118.1 | 116.9 | | | 151.4 |
| 1000 | 93.5 | 94.2 | 95.5 | 95.3 | 96.1 | 96.5 | 98.4 | 101.0 | 104.2 | 109.3 | 114.8 | 118.0 | 117.0 | | | 151.2 |
| 1250 | 93.0 | 94.6 | 95.8 | 96.1 | 97.5 | 98.3 | 99.7 | 102.6 | 105.6 | 109.2 | 114.4 | 118.3 | 116.6 | | | 151.3 |
| 1600 | 99.6 | 98.4 | 96.7 | 97.0 | 97.3 | 98.7 | 99.6 | 101.7 | 105.7 | 109.5 | 113.5 | 117.9 | 116.2 | | | 150.9 |
| 2000 | 103.9 | 102.2 | 101.7 | 99.5 | 98.4 | 98.5 | 100.6 | 102.8 | 106.2 | 109.1 | 112.3 | 116.4 | 114.0 | | | 150.0 |
| 2500 | 104.8 | 104.1 | 104.1 | 103.6 | 102.7 | 99.6 | 100.5 | 102.6 | 107.1 | 108.4 | 111.4 | 115.3 | 112.1 | | | 149.7 |
| 3150 | 102.8 | 103.3 | 103.6 | 104.4 | 104.9 | 103.1 | 101.7 | 103.9 | 107.3 | 108.9 | 111.4 | 116.3 | 111.3 | | | 149.6 |
| 4000 | 100.0 | 101.1 | 101.9 | 102.4 | 103.5 | 103.6 | 103.5 | 104.6 | 106.4 | 108.2 | 110.4 | 112.6 | 108.8 | | | 148.6 |
| 5000 | 99.2 | 101.2 | 101.3 | 102.5 | 102.4 | 103.0 | 104.1 | 105.8 | 107.3 | 108.1 | 110.3 | 111.5 | 108.5 | | | 148.5 |
| 6300 | 98.0 | 100.0 | 100.6 | 102.1 | 103.4 | 103.5 | 104.2 | 106.3 | 107.6 | 107.4 | 110.1 | 110.8 | 108.3 | | | 148.3 |
| 8000 | 96.2 | 98.3 | 99.1 | 101.1 | 103.2 | 103.5 | 104.0 | 105.9 | 107.9 | 107.5 | 109.7 | 109.6 | 106.8 | | | 148.0 |
| 10000 | 94.4 | 98.2 | 98.6 | 100.6 | 102.6 | 102.0 | 104.1 | 105.6 | 107.8 | 107.2 | 108.4 | 108.7 | 106.0 | | | 146.5 |
| 12500 | 92.8 | 95.8 | 97.4 | 99.3 | 100.6 | 101.0 | 103.1 | 103.7 | 105.9 | 105.0 | 105.2 | 106.5 | 104.3 | | | 146.3 |
| 16000 | 91.0 | 93.8 | 95.7 | 98.4 | 100.4 | 100.5 | 103.4 | 102.9 | 104.7 | 103.2 | 103.1 | 105.6 | 102.5 | | | 144.8 |
| 20000 | 88.2 | 91.7 | 93.6 | 95.7 | 98.2 | 98.3 | 101.7 | 99.8 | 101.3 | 100.1 | 100.5 | 102.7 | 100.6 | | | 143.5 |
| 25000 | 86.2 | 89.4 | 90.8 | 93.6 | 96.1 | 95.6 | 97.1 | 97.5 | 99.3 | 96.7 | 99.0 | 98.4 | 97.0 | | | 142.7 |
| 31500 | 82.9 | 87.7 | 89.8 | 92.0 | 94.5 | 93.8 | 95.7 | 95.0 | 96.3 | 94.3 | 95.6 | 98.5 | 95.3 | | | 140.5 |
| 40000 | 78.2 | 82.7 | 86.2 | 88.5 | 89.4 | 89.7 | 92.1 | 92.0 | 92.5 | 92.0 | 92.1 | 93.3 | 91.6 | | | 140.2 |
| 50000 | 71.4 | 75.9 | 80.3 | 82.6 | 81.5 | 82.9 | 84.1 | 82.6 | 85.8 | 85.2 | 87.9 | 87.7 | 85.6 | | | 143.9 |
| 63000 | 64.2 | 68.8 | 73.6 | 75.6 | 73.9 | 76.0 | 77.6 | 76.1 | 79.1 | 78.6 | 82.4 | 81.2 | 77.8 | | | 143.9 |
| 80000 | 58.6 | 62.8 | 69.3 | 69.0 | 67.0 | 69.4 | 72.0 | 69.4 | 73.3 | 74.4 | 76.1 | 76.8 | 72.6 | | | 162.5 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | |
| PNOB 111.0 111.5 111.8 112.6 113.5 113.3 114.5 116.0 118.5 120.6 124.9 127.9 126.4 | | | | | | | | | | | | | | | | |
| 124.4 124.8 125.1 125.8 126.5 125.9 126.6 128.1 130.6 132.9 136.3 139.1 136.9 | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 445 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-------|
| FREQ. (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.) | 50 | 84.4 | 87.9 | 89.2 | 90.8 | 91.9 | 94.3 | 96.5 | 98.2 | 103.0 | 109.7 | 112.7 | 114.2 | 0. | 0. | 0. | 158.0 |
| NO EGA | 63 | 86.3 | 90.8 | 88.8 | 90.8 | 94.2 | 94.8 | 95.7 | 97.8 | 100.8 | 105.4 | 111.3 | 116.0 | 115.8 | | | 160.3 |
| RDG. NO. 0. | 80 | 88.3 | 89.8 | 92.1 | 91.6 | 94.0 | 94.3 | 96.0 | 98.9 | 101.8 | 108.4 | 114.6 | 117.0 | 116.8 | | | 162.0 |
| RADIAL 150. FT. | 100 | 89.1 | 89.7 | 91.4 | 91.9 | 93.8 | 95.4 | 96.8 | 99.4 | 103.2 | 110.0 | 115.9 | 118.6 | 117.4 | | | 163.2 |
| (46. M) | 125 | 90.5 | 91.8 | 92.5 | 93.3 | 95.9 | 96.8 | 98.4 | 101.0 | 104.8 | 110.6 | 117.0 | 119.5 | 118.0 | | | 164.1 |
| VEHICLE CELL41 | 160 | 92.5 | 93.0 | 93.8 | 95.1 | 96.7 | 97.8 | 99.2 | 102.1 | 106.5 | 111.4 | 117.8 | 120.2 | 119.0 | | | 165.0 |
| CONFIG NC56 | 200 | 95.6 | 96.4 | 97.6 | 97.4 | 98.2 | 98.6 | 100.5 | 103.2 | 106.4 | 111.4 | 116.9 | 120.1 | 119.1 | | | 164.8 |
| LOC C41 ANECH CH | 250 | 95.2 | 96.7 | 98.0 | 98.2 | 99.6 | 100.5 | 101.8 | 104.7 | 107.7 | 111.3 | 116.5 | 120.4 | 118.7 | | | 164.8 |
| DATE 06-14-76 | 315 | 101.8 | 100.6 | 98.8 | 99.1 | 99.5 | 100.8 | 101.7 | 103.9 | 107.8 | 111.7 | 115.6 | 120.0 | 118.3 | | | 164.5 |
| RUN CONF4HIGHFLW | 400 | 106.1 | 104.4 | 103.9 | 101.7 | 100.5 | 100.6 | 102.8 | 104.9 | 108.4 | 111.2 | 114.4 | 118.6 | 116.1 | | | 163.6 |
| TAPE X04450 | 500 | 106.9 | 106.2 | 106.3 | 105.8 | 104.9 | 101.7 | 102.6 | 104.8 | 109.3 | 110.6 | 113.5 | 117.5 | 114.2 | | | 163.2 |
| BAR 29.4 HG | 630 | 105.0 | 105.5 | 105.8 | 105.8 | 107.1 | 105.2 | 103.9 | 106.0 | 109.5 | 111.1 | 113.6 | 116.5 | 113.5 | | | 162.2 |
| (99178. N/M2) | 800 | 102.3 | 103.3 | 104.1 | 104.6 | 105.7 | 105.8 | 105.2 | 106.4 | 108.0 | 109.5 | 110.4 | 112.5 | 113.7 | 110.7 | | 162.1 |
| TAMB 77. DEG F | 1000 | 101.4 | 103.5 | 103.5 | 104.8 | 104.6 | 103.2 | 106.4 | 108.0 | 109.5 | 110.4 | 112.2 | 112.1 | 109.3 | | | 161.8 |
| (298. DEG K) | 1250 | 100.3 | 102.4 | 102.9 | 104.4 | 105.8 | 105.9 | 106.5 | 108.7 | 109.9 | 109.8 | 112.5 | 113.1 | 110.6 | | | 162.1 |
| TWET 70. DEG F | 1600 | 98.7 | 100.8 | 101.6 | 103.6 | 105.7 | 105.8 | 106.5 | 108.7 | 109.9 | 109.8 | 112.2 | 112.1 | 109.3 | | | 161.8 |
| (294. DEG K) | 2000 | 97.1 | 101.0 | 101.3 | 105.4 | 104.7 | 106.9 | 108.3 | 110.4 | 110.4 | 110.0 | 111.1 | 111.5 | 108.7 | | | 160.1 |
| HACT16.35 GM/M3 | 2500 | 95.8 | 98.8 | 100.4 | 102.4 | 103.7 | 104.1 | 106.2 | 106.8 | 108.9 | 108.1 | 108.3 | 109.6 | 107.3 | | | 161.6 |
| (.01635 KG/M3) | 3150 | 94.7 | 97.4 | 99.3 | 102.0 | 104.1 | 104.2 | 107.1 | 106.6 | 108.3 | 106.8 | 106.7 | 109.2 | 106.2 | | | 159.9 |
| FREQ. SHIFT | 4000 | 92.5 | 96.1 | 97.9 | 100.1 | 103.6 | 102.7 | 106.1 | 104.3 | 105.7 | 104.4 | 104.8 | 107.0 | 104.9 | | | 158.4 |
| JET | 5000 | 91.8 | 95.1 | 96.4 | 99.2 | 101.7 | 101.2 | 102.7 | 103.1 | 104.9 | 102.3 | 104.6 | 104.0 | 102.6 | | | 156.9 |
| DIAMETER RATIO | 6300 | 90.1 | 94.9 | 97.0 | 99.2 | 101.7 | 101.0 | 102.9 | 102.2 | 103.5 | 101.5 | 102.8 | 105.7 | 102.5 | | | 157.1 |
| DF/DM 4.78 | 8000 | 87.7 | 92.2 | 95.8 | 98.1 | 98.9 | 99.2 | 101.7 | 99.8 | 102.0 | 101.6 | 101.7 | 102.9 | 101.0 | | | 156.3 |
| | 10000 | 84.0 | 88.5 | 92.9 | 95.2 | 94.1 | 95.5 | 96.7 | 95.2 | 98.4 | 97.8 | 100.5 | 100.3 | 98.2 | | | 154.1 |
| | 12500 | 81.3 | 85.9 | 90.6 | 92.6 | 90.9 | 93.1 | 94.7 | 93.1 | 96.1 | 95.6 | 99.5 | 98.3 | 94.1 | | | 153.8 |
| | 16000 | 82.0 | 86.2 | 92.7 | 92.4 | 90.4 | 92.8 | 95.4 | 92.8 | 96.7 | 97.8 | 99.4 | 100.2 | 96.0 | | | 157.5 |
| OVERALL CALCULATED | 113.3 | 113.9 | 114.4 | 115.2 | 116.3 | 116.0 | 117.4 | 118.6 | 121.1 | 123.0 | 127.1 | 130.0 | 128.4 | | | | 176.0 |
| PNOB | 122.2 | 124.0 | 125.2 | 126.9 | 128.6 | 128.5 | 130.6 | 131.0 | 133.1 | 133.4 | 135.6 | 137.5 | 135.3 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 445 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------------------|---|------|------|------|------|------|------|------|------|------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| SIDELINE 2400. FT.
(731.52 M) | 56.2 | 61.3 | 64.2 | 64.4 | 66.5 | 67.7 | 70.0 | 71.7 | 72.7 | 76.4 | 81.5 | 82.2 | 80.3 |
| NFA (0. RAD/SEC) | 60.0 | 64.1 | 63.2 | 66.0 | 69.8 | 70.5 | 71.3 | 73.0 | 75.2 | 78.7 | 83.1 | 85.5 | 81.8 |
| NFK (1. RPM) | 60.7 | 62.8 | 65.7 | 67.0 | 69.2 | 71.0 | 72.2 | 74.5 | 77.5 | 83.2 | 87.5 | 87.8 | 83.0 |
| NFD (0. RAD/SEC) | 63.8 | 65.9 | 67.9 | 69.9 | 71.3 | 72.3 | 73.8 | 76.0 | 79.0 | 83.7 | 88.5 | 88.5 | 83.4 |
| AIRFLOW RATIO | 66.6 | 69.1 | 71.5 | 72.1 | 73.4 | 73.9 | 75.6 | 77.8 | 80.3 | 84.2 | 87.9 | 88.6 | 83.7 |
| WF/WM 4.78 | 66.0 | 69.2 | 71.7 | 72.8 | 74.5 | 75.6 | 76.8 | 79.3 | 81.4 | 83.8 | 87.3 | 88.6 | 82.8 |
| VEHICLE CELL41 | 72.2 | 72.8 | 72.3 | 73.4 | 74.2 | 75.7 | 76.4 | 78.1 | 81.3 | 83.9 | 86.1 | 87.8 | 81.8 |
| CONFIG NC56 | 76.2 | 77.0 | 75.7 | 75.0 | 76.0 | 76.8 | 78.4 | 82.0 | 82.0 | 82.0 | 84.0 | 84.0 | 75.9 |
| LOC C41 ANECH CH | 76.4 | 77.7 | 79.0 | 79.4 | 79.0 | 79.7 | 80.8 | 79.2 | 81.8 | 82.0 | 82.4 | 82.1 | 73.8 |
| DATE 06-14-76 | 73.7 | 76.4 | 77.2 | 77.2 | 78.8 | 79.1 | 78.8 | 79.4 | 80.2 | 80.6 | 80.5 | 79.3 | 69.7 |
| RUN CONF4HIGHFLW | 70.2 | 73.4 | 75.7 | 76.6 | 77.0 | 77.8 | 78.8 | 79.9 | 80.3 | 79.6 | 79.4 | 76.8 | 67.2 |
| TAPE X04450 | 68.2 | 72.7 | 74.3 | 75.4 | 77.3 | 77.6 | 78.1 | 79.6 | 79.8 | 77.9 | 77.9 | 74.4 | 64.5 |
| FAN TIP SPEED | 62.2 | 67.3 | 70.0 | 73.3 | 76.0 | 76.4 | 76.8 | 78.0 | 78.8 | 76.5 | 75.7 | 70.8 | 59.5 |
| FT/SEC | 58.3 | 65.5 | 68.0 | 71.4 | 74.2 | 73.8 | 75.7 | 76.4 | 77.3 | 74.5 | 72.3 | 67.3 | 54.5 |
| OVERALL CALCULATED | 53.7 | 60.6 | 64.7 | 68.2 | 70.4 | 71.1 | 72.9 | 72.6 | 73.2 | 69.9 | 66.1 | 61.0 | 46.6 |
| PND8 | 47.1 | 54.7 | 59.7 | 64.2 | 67.3 | 67.8 | 70.3 | 68.8 | 68.7 | 64.1 | 59.2 | 53.7 | 35.2 |
| | 31.5 | 41.7 | 47.4 | 52.9 | 56.8 | 61.7 | 64.2 | 60.9 | 60.1 | 55.0 | 49.2 | 41.0 | 18.5 |
| | 16.0 | 30.1 | 37.9 | 43.6 | 48.1 | 47.9 | 49.2 | 46.7 | 44.4 | 36.7 | 28.7 | 15.8 | 7.1 |
| | 9.8 | 21.2 | 28.3 | 31.8 | 32.9 | 34.5 | 30.1 | 27.5 | 19.2 | 6.5 | | | |
| | 5.8 | 8.2 | 10.7 | 10.8 | 5.7 | 2.4 | | | | | | | |
| | 82.2 | 84.1 | 85.7 | 86.9 | 88.0 | 87.9 | 88.6 | 90.1 | 92.2 | 94.1 | 97.3 | 97.9 | 92.7 |
| | 87.7 | 90.5 | 92.5 | 94.1 | 96.2 | 96.3 | 97.5 | 98.3 | 99.7 | 99.3 | 100.9 | 100.8 | 94.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 445 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m(513in²)

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

FREQ. (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)(3.15)(3.3)(3.45)(3.6)(3.75)(3.9)(4.05)(4.2)(4.35)(4.5)(4.65)(4.8)(5.0)

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|----------|-----------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 50 | | 78.9 | 87.7 | 84.9 | 86.5 | 88.3 | 87.7 | 88.0 | 88.2 | 89.2 | 91.2 | 94.9 | 94.9 | 98.4 | 132.7 |
| 80 | | 76.8 | 82.1 | 82.6 | 84.9 | 87.7 | 88.4 | 88.7 | 89.2 | 88.4 | 87.7 | 89.2 | 94.9 | 98.4 | 133.2 |
| 125 | | 77.4 | 79.9 | 83.4 | 83.2 | 85.0 | 85.2 | 84.5 | 86.5 | 87.4 | 94.5 | 97.2 | 98.9 | 101.4 | 134.1 |
| 160 | CELL 41 | 80.5 | 80.8 | 81.5 | 84.1 | 84.4 | 86.0 | 86.2 | 89.1 | 92.0 | 95.6 | 99.3 | 104.0 | 106.0 | 138.0 |
| 200 | NCS6 | 79.3 | 81.8 | 83.6 | 83.9 | 85.5 | 86.6 | 89.5 | 90.9 | 92.6 | 96.9 | 103.1 | 105.5 | 107.1 | 139.7 |
| 250 | C61 ANECH CH | 80.2 | 84.7 | 83.4 | 85.7 | 88.6 | 88.9 | 90.3 | 92.5 | 95.2 | 99.8 | 105.2 | 108.1 | 109.2 | 142.0 |
| 315 | Q6-14-76 | 82.7 | 84.5 | 86.0 | 86.5 | 88.1 | 89.5 | 90.6 | 93.3 | 96.2 | 101.8 | 107.2 | 109.4 | 109.5 | 143.0 |
| 400 | CONFRHIGNFLW | 83.3 | 84.8 | 86.0 | 87.1 | 88.7 | 90.3 | 91.4 | 94.3 | 97.5 | 103.1 | 107.8 | 110.3 | 109.8 | 144.0 |
| 500 | X04460 | 84.4 | 86.1 | 86.4 | 88.4 | 90.0 | 91.4 | 93.3 | 95.4 | 98.6 | 103.5 | 107.9 | 110.6 | 109.9 | 144.3 |
| 630 | 29.4 HG | 85.6 | 87.4 | 87.9 | 89.5 | 91.3 | 92.7 | 94.3 | 97.0 | 100.2 | 104.5 | 107.9 | 109.9 | 109.9 | 144.3 |
| 800 | (99178. N/M2) | 88.0 | 89.0 | 89.5 | 90.5 | 91.9 | 93.2 | 95.1 | 98.3 | 100.5 | 104.6 | 106.5 | 107.0 | 109.0 | 143.3 |
| 1000 | 84. DEG F | 87.3 | 89.1 | 91.1 | 91.1 | 92.7 | 94.1 | 95.2 | 98.6 | 101.6 | 104.7 | 105.6 | 107.0 | 109.0 | 143.3 |
| 1250 | (302. DEG K) | 87.7 | 89.7 | 90.2 | 92.0 | 93.8 | 94.9 | 95.8 | 98.5 | 101.9 | 104.8 | 105.0 | 107.0 | 107.8 | 143.1 |
| 1600 | 73. DEG F | 88.2 | 89.5 | 90.8 | 91.8 | 93.9 | 94.7 | 96.6 | 99.3 | 102.3 | 104.3 | 104.5 | 105.9 | 106.9 | 142.7 |
| 2000 | (296. DEG K) | 88.3 | 89.8 | 91.4 | 91.9 | 93.5 | 95.3 | 96.5 | 99.1 | 102.6 | 104.2 | 104.1 | 105.1 | 105.3 | 142.5 |
| 2500 | HACT17.02 GR/M3 | 88.3 | 90.3 | 91.6 | 92.4 | 94.7 | 95.1 | 97.0 | 99.9 | 103.1 | 104.2 | 103.6 | 104.8 | 104.8 | 142.4 |
| 3150 | (.01702 KG/M3) | 87.5 | 89.9 | 91.9 | 92.4 | 94.0 | 95.1 | 96.7 | 100.2 | 102.4 | 103.5 | 102.4 | 104.8 | 104.1 | 142.0 |
| 4000 | JET O | 87.4 | 90.0 | 92.0 | 92.8 | 94.4 | 96.0 | 97.6 | 100.3 | 102.5 | 102.9 | 102.6 | 105.0 | 105.0 | 142.3 |
| 5000 | DIAMETER RATIO | 86.7 | 90.1 | 91.6 | 92.4 | 94.9 | 96.6 | 98.4 | 100.4 | 102.6 | 102.7 | 102.7 | 105.5 | 104.8 | 142.6 |
| 6300 | OF/DH 1.00 | 86.5 | 89.6 | 91.7 | 93.4 | 95.2 | 96.1 | 98.7 | 100.4 | 102.2 | 102.3 | 102.7 | 104.8 | 104.1 | 142.5 |
| 10000 | | 85.4 | 90.0 | 91.6 | 93.1 | 95.4 | 95.5 | 98.2 | 100.1 | 102.1 | 101.8 | 102.2 | 104.0 | 103.5 | 141.1 |
| 12500 | | 83.3 | 88.8 | 90.4 | 92.4 | 93.9 | 94.5 | 97.2 | 98.3 | 100.4 | 99.6 | 100.2 | 102.1 | 100.5 | 140.5 |
| 16000 | | 81.8 | 87.1 | 89.3 | 91.7 | 93.5 | 93.8 | 96.7 | 97.0 | 99.0 | 98.1 | 99.9 | 99.3 | 139.0 | |
| 20000 | | 79.7 | 84.3 | 87.1 | 89.5 | 93.0 | 92.4 | 94.8 | 93.6 | 96.2 | 94.9 | 95.1 | 97.0 | 96.2 | 137.8 |
| 25000 | | 77.5 | 83.0 | 84.9 | 87.7 | 90.7 | 90.9 | 91.9 | 91.8 | 93.9 | 91.5 | 93.4 | 90.9 | 92.5 | 139.9 |
| 31500 | | 77.7 | 84.0 | 86.9 | 89.4 | 92.6 | 92.1 | 93.8 | 91.9 | 91.2 | 88.5 | 89.2 | 91.9 | 89.4 | 137.3 |
| 40000 | | 71.0 | 76.5 | 80.6 | 82.7 | 84.8 | 87.5 | 84.1 | 86.4 | 85.2 | 85.3 | 87.2 | 85.3 | 137.3 | |
| 50000 | | 62.3 | 67.9 | 71.5 | 73.9 | 75.0 | 76.1 | 77.1 | 77.5 | 79.0 | 78.0 | 80.1 | 79.5 | 77.4 | 133.6 |
| 63000 | | 55.5 | 59.9 | 65.2 | 66.7 | 67.4 | 69.1 | 68.9 | 70.4 | 71.7 | 71.2 | 73.1 | 71.8 | 69.6 | 132.3 |
| 80000 | | 50.2 | 53.0 | 60.1 | 58.8 | 59.2 | 60.9 | 62.5 | 62.7 | 65.4 | 66.6 | 66.4 | 64.4 | 64.6 | 135.0 |

OVERALL MEASURED

OVERALL CALCULATED PH08 99.2 101.9 103.3 104.6 106.6 107.4 109.3 111.4 113.9 115.9 117.9 119.9 120.2
 PH08 111.9 114.2 115.6 116.5 118.5 119.3 121.0 123.8 126.5 128.2 129.1 130.7 130.9

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 446 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 27 HR. 12.2

| RDG. NO. | NO EGA | RADIAL 150. FT. | (46. M) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | PWL |
|--------------------|--------|-----------------|---------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-----|
| | | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 81.4 | 83.9 | 85.7 | 86.0 | 87.6 | 88.7 | 91.6 | 93.0 | 94.7 | 99.0 | 100.8 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 153.3 | |
| 63 | 82.3 | 86.8 | 85.5 | 87.8 | 86.0 | 87.6 | 91.6 | 93.0 | 94.7 | 99.0 | 100.8 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 155.6 | |
| 80 | 84.8 | 86.6 | 88.1 | 88.6 | 90.2 | 91.0 | 92.4 | 94.6 | 97.3 | 99.0 | 102.4 | 104.6 | 106.7 | 107.2 | 107.7 | 109.2 | 109.2 | 156.8 | |
| 100 | 85.4 | 86.9 | 88.2 | 89.2 | 90.8 | 92.4 | 93.5 | 95.4 | 96.9 | 98.8 | 101.4 | 104.4 | 106.5 | 107.2 | 107.7 | 109.2 | 111.9 | 157.9 | |
| 125 | 86.5 | 88.3 | 88.5 | 90.6 | 92.1 | 93.5 | 95.4 | 96.4 | 97.2 | 99.1 | 102.4 | 104.6 | 106.5 | 107.2 | 107.7 | 109.2 | 112.0 | 157.9 | |
| 160 | 87.8 | 89.5 | 90.0 | 91.6 | 92.7 | 94.0 | 95.4 | 97.2 | 98.2 | 100.4 | 102.6 | 104.8 | 106.7 | 107.2 | 107.7 | 109.2 | 112.0 | 157.9 | |
| 200 | 90.1 | 91.1 | 91.6 | 92.7 | 94.0 | 95.4 | 97.2 | 98.2 | 100.4 | 102.6 | 104.8 | 106.7 | 107.2 | 107.7 | 109.2 | 112.0 | 112.0 | 157.9 | |
| 250 | 89.4 | 91.2 | 93.2 | 93.3 | 94.8 | 96.2 | 97.3 | 98.9 | 100.8 | 103.7 | 106.8 | 107.7 | 109.2 | 110.0 | 111.1 | 111.1 | 111.1 | 156.9 | |
| 315 | 89.8 | 91.8 | 92.3 | 94.1 | 96.0 | 97.1 | 98.0 | 100.6 | 104.1 | 106.9 | 107.1 | 108.0 | 109.1 | 110.0 | 110.0 | 110.0 | 110.0 | 156.7 | |
| 400 | 90.3 | 91.6 | 92.9 | 93.9 | 96.0 | 97.5 | 98.6 | 101.3 | 104.4 | 106.5 | 106.7 | 107.3 | 108.0 | 109.1 | 109.1 | 109.1 | 109.1 | 156.3 | |
| 500 | 90.5 | 92.0 | 93.5 | 94.1 | 95.6 | 97.5 | 98.6 | 101.3 | 104.4 | 106.5 | 106.7 | 107.3 | 108.0 | 109.1 | 109.1 | 109.1 | 109.1 | 156.0 | |
| 630 | 89.8 | 92.1 | 94.1 | 94.6 | 96.2 | 97.3 | 99.0 | 102.4 | 104.6 | 106.5 | 106.7 | 107.3 | 108.0 | 109.1 | 109.1 | 109.1 | 109.1 | 155.9 | |
| 800 | 89.7 | 92.2 | 94.3 | 95.0 | 96.6 | 98.2 | 99.9 | 102.5 | 104.8 | 105.1 | 104.8 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 155.6 | |
| 1000 | 89.1 | 92.4 | 94.0 | 94.7 | 97.3 | 98.9 | 100.8 | 102.5 | 104.8 | 105.0 | 104.8 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 155.9 | |
| 1250 | 89.0 | 92.1 | 94.2 | 95.9 | 97.7 | 98.6 | 101.2 | 102.9 | 104.7 | 104.8 | 105.2 | 107.3 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 156.2 | |
| 1600 | 88.1 | 92.7 | 94.3 | 95.8 | 98.1 | 98.2 | 100.9 | 102.8 | 104.8 | 104.5 | 104.9 | 106.8 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 156.1 | |
| 2000 | 86.4 | 91.9 | 93.5 | 95.4 | 97.0 | 97.6 | 100.3 | 101.3 | 103.5 | 102.7 | 103.3 | 105.1 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 156.0 | |
| 2500 | 85.5 | 90.7 | 92.9 | 95.3 | 97.1 | 97.5 | 100.4 | 100.6 | 102.6 | 101.6 | 101.8 | 103.5 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 154.7 | |
| 3150 | 85.5 | 90.7 | 92.9 | 95.3 | 97.1 | 97.5 | 100.4 | 100.6 | 102.6 | 101.6 | 101.8 | 103.5 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 154.1 | |
| 4000 | 84.1 | 88.6 | 91.5 | 93.9 | 97.4 | 96.7 | 99.1 | 97.9 | 100.5 | 99.3 | 99.4 | 101.3 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 | 152.6 | |
| 5000 | 83.1 | 88.6 | 91.5 | 93.3 | 96.3 | 96.5 | 97.6 | 97.4 | 99.5 | 97.1 | 99.0 | 96.6 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 151.4 | |
| 6300 | 84.9 | 91.2 | 94.1 | 96.6 | 99.9 | 99.3 | 101.0 | 99.1 | 98.4 | 95.7 | 96.4 | 99.1 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 153.5 | |
| 8000 | 80.6 | 86.1 | 90.2 | 92.2 | 94.3 | 94.3 | 97.1 | 95.7 | 95.9 | 94.8 | 94.8 | 96.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 150.9 | |
| 10000 | 74.9 | 80.5 | 84.1 | 86.5 | 87.6 | 88.7 | 89.7 | 90.1 | 92.2 | 90.6 | 92.7 | 92.1 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 147.0 | |
| 12500 | 72.5 | 76.9 | 82.2 | 83.7 | 84.5 | 86.2 | 86.0 | 87.5 | 88.8 | 88.3 | 90.1 | 88.9 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 145.9 | |
| 16000 | 73.6 | 76.4 | 83.5 | 82.2 | 82.6 | 84.3 | 85.9 | 86.1 | 88.8 | 90.0 | 89.8 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 148.6 | |
| OVERALL CALCULATED | 101.5 | 104.3 | 106.0 | 107.4 | 109.5 | 110.3 | 112.2 | 113.9 | 116.4 | 118.2 | 120.0 | 121.9 | 122.1 | 122.1 | 122.1 | 122.1 | 122.1 | 169.4 | |
| PNDB | 112.1 | 116.2 | 118.2 | 120.1 | 122.4 | 122.6 | 124.9 | 125.9 | 128.0 | 128.2 | 129.1 | 130.8 | 130.4 | 130.4 | 130.4 | 130.4 | 130.4 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 444 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 27 HR. 12.2

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | |
|--|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | |
| | 50 | (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.) |
| | 63 | 53.2 | 57.3 | 60.2 | 61.2 | 63.2 | 64.5 | 67.2 | 68.2 | 69.2 | 71.7 | 72.4 | 77.0 | 77.2 | 75.3 | | | |
| | 80 | 54.0 | 60.1 | 60.0 | 63.0 | 66.3 | 66.8 | 68.0 | 69.7 | 71.7 | 75.2 | 79.1 | 79.7 | 77.3 | | | | |
| | 100 | 56.9 | 60.1 | 62.5 | 64.2 | 66.2 | 67.2 | 68.2 | 70.5 | 72.7 | 77.2 | 81.0 | 80.9 | 77.4 | | | | |
| | 125 | 57.9 | 61.3 | 62.7 | 65.5 | 67.5 | 69.0 | 70.8 | 72.5 | 75.0 | 78.4 | 81.5 | 81.6 | 77.5 | | | | |
| | 160 | 59.0 | 62.4 | 64.1 | 66.4 | 68.7 | 70.2 | 71.7 | 73.9 | 76.4 | 79.5 | 81.3 | 80.8 | 77.1 | | | | |
| | 200 | 61.1 | 63.9 | 65.5 | 67.3 | 69.1 | 70.6 | 72.4 | 75.1 | 76.5 | 79.4 | 79.7 | 77.6 | 75.7 | | | | |
| | 250 | 60.2 | 63.7 | 66.9 | 67.8 | 69.8 | 71.3 | 72.3 | 75.3 | 77.4 | 79.3 | 78.5 | 77.4 | 74.1 | | | | |
| | 315 | 60.2 | 64.1 | 65.8 | 68.4 | 70.7 | 72.0 | 72.7 | 74.9 | 77.6 | 79.2 | 77.6 | 75.8 | 72.6 | | | | |
| | 400 | 60.3 | 63.5 | 66.0 | 67.9 | 70.5 | 71.5 | 73.2 | 75.4 | 77.5 | 78.4 | 76.7 | 74.6 | 70.8 | | | | |
| | 500 | 59.9 | 63.4 | 66.3 | 67.7 | 69.8 | 71.8 | 72.8 | 74.9 | 77.5 | 77.8 | 75.8 | 73.8 | 69.1 | | | | |
| | 630 | 59.3 | 63.4 | 66.1 | 67.7 | 70.6 | 71.1 | 72.8 | 75.2 | 77.6 | 77.3 | 74.6 | 72.6 | 67.3 | | | | |
| | 800 | 57.7 | 62.2 | 65.7 | 67.2 | 69.3 | 70.6 | 72.1 | 75.0 | 76.2 | 75.8 | 72.6 | 71.5 | 64.9 | | | | |
| | 1000 | 56.5 | 61.5 | 65.1 | 66.9 | 69.1 | 70.9 | 72.3 | 74.4 | 75.6 | 74.4 | 71.6 | 70.3 | 63.8 | | | | |
| | 1250 | 54.5 | 60.5 | 63.8 | 65.6 | 68.9 | 70.7 | 72.4 | 73.6 | 74.8 | 73.2 | 70.5 | 69.2 | 61.1 | | | | |
| | 1600 | 52.5 | 58.6 | 62.6 | 65.5 | 68.1 | 69.1 | 71.6 | 72.5 | 73.1 | 71.3 | 68.7 | 66.1 | 56.8 | | | | |
| | 2000 | 49.3 | 57.3 | 61.0 | 63.9 | 67.0 | 67.3 | 69.7 | 70.9 | 71.5 | 69.0 | 66.1 | 62.5 | 52.0 | | | | |
| | 2500 | 44.2 | 53.6 | 57.7 | 61.9 | 63.7 | 64.6 | 67.0 | 67.2 | 67.7 | 64.4 | 61.2 | 56.6 | 42.9 | | | | |
| | 3150 | 37.9 | 48.0 | 53.2 | 57.5 | 60.4 | 61.1 | 63.6 | 62.8 | 63.0 | 58.9 | 54.2 | 48.0 | 32.0 | | | | |
| | 4000 | 28.5 | 39.2 | 45.9 | 50.7 | 55.5 | 55.2 | 57.2 | 54.7 | 54.9 | 49.8 | 43.8 | 35.3 | 14.0 | | | | |
| | 5000 | 22.8 | 35.3 | 41.5 | 47.0 | 51.4 | 52.1 | 52.7 | 51.1 | 50.5 | 45.8 | 38.7 | 24.4 | 2.7 | | | | |
| | 6300 | 10.9 | 26.4 | 35.0 | 41.0 | 46.2 | 46.3 | 47.3 | 43.5 | 39.3 | 30.9 | 22.3 | 9.1 | | | | | |
| | 8000 | | 3.7 | 15.7 | 22.5 | 27.2 | 28.0 | 29.9 | 26.0 | 21.4 | 12.4 | | | | | | | |
| | 10000 | | | | | 1.7 | 3.9 | 3.8 | 0.7 | | | | | | | | | |
| | 12500 | | | | | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 70.3 | 74.2 | 76.8 | 78.7 | 81.1 | 82.4 | 83.9 | 86.0 | 87.9 | 89.5 | 90.3 | 89.8 | 86.2 | | | | |
| PNDB | | 74.9 | 80.3 | 83.7 | 86.4 | 89.3 | 90.2 | 92.1 | 93.5 | 94.7 | 94.4 | 93.3 | 91.8 | 87.0 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 444 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 27 HR. 11.9
 ANGLES FROM INLET IN DEGREES (AND RADIANS) 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0. 0. 0. PBL
 FREQ. (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.)

| NO EGA | RDG. NO. | 40. FT. | 50. FT. | 60. FT. | 70. FT. | 80. FT. | 90. FT. | 100. FT. | 110. FT. | 120. FT. | 130. FT. | 140. FT. | 150. FT. | 160. FT. | 0. FT. | 0. FT. | 0. FT. | 0. FT. | 0. FT. | PBL |
|--------------------|----------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|--------|--------|--------|--------|--------|-----|
| 30 | 83.1 | 91.9 | 88.9 | 90.7 | 92.5 | 91.9 | 92.3 | 92.7 | 94.2 | 95.2 | 99.2 | 99.6 | 102.9 | 137.1 | | | | | | |
| 60 | 81.6 | 86.9 | 87.1 | 89.7 | 92.0 | 93.1 | 93.7 | 94.9 | 95.1 | 92.7 | 101.1 | 103.6 | 104.9 | 138.6 | | | | | | |
| 100 | 81.9 | 84.9 | 82.4 | 88.0 | 88.8 | 89.2 | 89.3 | 91.2 | 92.9 | 97.2 | 102.7 | 104.1 | 107.4 | 139.5 | | | | | | |
| 160 | 84.5 | 85.5 | 86.3 | 87.1 | 89.2 | 89.8 | 91.7 | 93.8 | 97.0 | 100.6 | 104.6 | 109.3 | 111.3 | 143.2 | | | | | | |
| 200 | 83.3 | 86.3 | 88.1 | 88.6 | 89.2 | 90.3 | 93.3 | 95.4 | 97.6 | 102.2 | 108.0 | 111.8 | 113.1 | 145.6 | | | | | | |
| 250 | 84.9 | 89.7 | 87.4 | 39.5 | 92.3 | 93.7 | 94.8 | 96.5 | 99.4 | 104.8 | 111.0 | 114.6 | 114.9 | 147.9 | | | | | | |
| 315 | 87.2 | 88.5 | 90.5 | 90.0 | 92.3 | 93.5 | 94.6 | 97.8 | 100.7 | 107.5 | 113.7 | 116.4 | 115.5 | 149.6 | | | | | | |
| 400 | 87.8 | 88.5 | 90.0 | 91.1 | 92.4 | 94.3 | 95.7 | 98.3 | 101.8 | 109.4 | 114.8 | 117.5 | 116.0 | 150.7 | | | | | | |
| 500 | 88.9 | 90.9 | 90.9 | 92.1 | 94.0 | 95.4 | 97.0 | 99.9 | 103.6 | 109.0 | 114.9 | 118.4 | 117.1 | 151.3 | | | | | | |
| 630 | 90.4 | 91.4 | 92.7 | 93.5 | 95.3 | 96.4 | 98.3 | 101.5 | 105.2 | 110.2 | 115.4 | 118.4 | 117.9 | 151.8 | | | | | | |
| 800 | 94.0 | 94.7 | 95.5 | 95.3 | 96.9 | 97.5 | 99.6 | 102.0 | 106.0 | 110.1 | 114.0 | 117.0 | 117.7 | 151.1 | | | | | | |
| 1000 | 93.3 | 94.8 | 95.8 | 96.4 | 97.7 | 99.6 | 100.2 | 103.6 | 106.8 | 110.2 | 113.1 | 118.3 | 118.6 | 151.7 | | | | | | |
| 1250 | 94.6 | 96.2 | 95.7 | 97.0 | 98.1 | 99.2 | 100.8 | 103.2 | 107.4 | 111.0 | 113.0 | 118.4 | 118.2 | 151.8 | | | | | | |
| 1600 | 97.7 | 97.5 | 97.5 | 97.3 | 98.1 | 99.5 | 101.1 | 104.0 | 108.0 | 111.1 | 113.8 | 118.0 | 116.5 | 151.5 | | | | | | |
| 2000 | 99.8 | 99.6 | 99.6 | 98.9 | 99.5 | 99.8 | 101.7 | 104.6 | 108.9 | 110.5 | 113.9 | 117.3 | 114.8 | 151.2 | | | | | | |
| 2500 | 100.0 | 101.1 | 100.8 | 100.9 | 101.7 | 100.8 | 102.2 | 105.4 | 109.1 | 111.9 | 114.9 | 116.5 | 113.1 | 151.4 | | | | | | |
| 3150 | 99.0 | 100.1 | 101.4 | 100.7 | 101.2 | 101.6 | 102.7 | 105.7 | 108.6 | 111.5 | 114.2 | 114.1 | 110.6 | 150.4 | | | | | | |
| 4000 | 97.4 | 99.7 | 101.0 | 101.6 | 101.6 | 101.7 | 103.4 | 105.8 | 109.0 | 110.9 | 114.3 | 113.2 | 109.7 | 150.3 | | | | | | |
| 5000 | 96.7 | 99.8 | 101.4 | 101.9 | 102.9 | 103.6 | 104.7 | 106.4 | 108.9 | 111.0 | 112.2 | 111.8 | 108.8 | 149.8 | | | | | | |
| 6300 | 95.5 | 98.8 | 100.4 | 102.7 | 103.7 | 103.6 | 105.0 | 107.2 | 108.7 | 110.5 | 111.2 | 110.3 | 107.1 | 149.6 | | | | | | |
| 8000 | 93.9 | 98.5 | 100.1 | 101.8 | 103.9 | 102.5 | 104.6 | 106.6 | 108.3 | 109.0 | 109.7 | 109.8 | 106.5 | 149.1 | | | | | | |
| 10000 | 92.0 | 96.5 | 98.9 | 100.6 | 102.2 | 102.3 | 104.2 | 105.0 | 106.6 | 106.8 | 107.2 | 107.1 | 104.3 | 147.8 | | | | | | |
| 12500 | 90.1 | 94.8 | 96.7 | 100.2 | 101.3 | 103.7 | 103.2 | 105.2 | 105.2 | 105.2 | 105.4 | 103.3 | 103.3 | 147.2 | | | | | | |
| 16000 | 86.5 | 91.3 | 94.9 | 96.5 | 100.8 | 98.9 | 102.3 | 100.6 | 102.4 | 101.6 | 103.0 | 102.2 | 100.9 | 145.8 | | | | | | |
| 20000 | 83.5 | 88.5 | 91.1 | 93.4 | 96.4 | 96.1 | 97.1 | 97.8 | 100.1 | 99.0 | 101.1 | 98.9 | 97.2 | 144.1 | | | | | | |
| 25000 | 80.4 | 86.2 | 89.6 | 91.6 | 94.3 | 93.8 | 96.0 | 95.3 | 96.6 | 96.1 | 97.6 | 99.6 | 94.6 | 144.1 | | | | | | |
| 31500 | 75.2 | 81.0 | 85.3 | 87.8 | 88.9 | 89.0 | 91.2 | 90.6 | 92.8 | 94.1 | 95.7 | 96.4 | 91.2 | 143.7 | | | | | | |
| 40000 | 68.7 | 73.8 | 79.2 | 80.7 | 81.1 | 81.7 | 83.0 | 83.7 | 86.4 | 88.1 | 91.3 | 89.3 | 85.7 | 141.7 | | | | | | |
| 50000 | 63.1 | 67.2 | 73.5 | 74.0 | 74.5 | 74.4 | 75.0 | 77.5 | 80.3 | 82.5 | 87.1 | 82.9 | 78.5 | 142.3 | | | | | | |
| 63000 | 59.0 | 62.5 | 69.3 | 67.5 | 67.7 | 68.6 | 69.8 | 71.0 | 74.9 | 78.8 | 82.9 | 77.1 | 73.6 | 146.9 | | | | | | |
| 80000 | 59.0 | 62.5 | 69.3 | 67.5 | 67.7 | 68.6 | 69.8 | 71.0 | 74.9 | 78.8 | 82.9 | 77.1 | 73.6 | 146.9 | | | | | | |
| OVERALL CALCULATED | 108.1 | 110.0 | 111.0 | 111.9 | 113.2 | 113.3 | 115.0 | 116.9 | 119.8 | 122.6 | 126.0 | 128.7 | 127.8 | 163.5 | | | | | | |
| PNUB | 121.7 | 123.2 | 123.7 | 123.9 | 124.9 | 125.1 | 126.5 | 129.1 | 132.3 | 135.3 | 138.5 | 140.5 | 138.7 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 447 SIZE MODEL-145cm²(22.4in²)
 ACOUSTIC RANGE 12.2m(40ft.) ARC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | PROC. DATE - MONTH 8 DAY 27 HR. 12.2 | | | | | | | | | | | | | |
|--|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. (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)(3.00)(3.15)(3.30)(3.46)(3.63)(3.81)(4.00)(4.20)(4.40)(4.60)(4.80)(5.00) | | ANGLES FROM INLET IN DEGREES (AND RADIAN) 0. 100. 110. 120. 130. 140. 150. 160. 170. 180. | | | | | | | | | | | | | |
| RDG. NO. | 0. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| NO EGA | 50 | 85.4 | 88.4 | 90.2 | 90.7 | 91.3 | 92.4 | 95.6 | 97.5 | 99.7 | 104.3 | 111.0 | 113.9 | 115.2 | 159.2 |
| RADIAL 150. FT. | 63 | 87.0 | 91.8 | 89.5 | 91.6 | 94.4 | 95.8 | 96.9 | 98.6 | 101.5 | 106.9 | 113.1 | 116.8 | 117.0 | 161.5 |
| VEHICLE CELL 41 | 80 | 89.3 | 90.6 | 92.6 | 92.1 | 94.5 | 95.6 | 96.7 | 99.9 | 102.8 | 109.6 | 115.9 | 118.5 | 117.6 | 163.2 |
| CONFIG NC56 | 100 | 89.9 | 90.7 | 92.2 | 93.2 | 94.5 | 96.4 | 97.8 | 100.4 | 103.9 | 111.5 | 116.9 | 119.6 | 118.2 | 164.3 |
| LOC C41 ANECH CH | 125 | 91.0 | 93.0 | 93.0 | 94.3 | 96.1 | 97.5 | 99.1 | 102.1 | 105.8 | 111.1 | 117.0 | 120.5 | 119.3 | 164.9 |
| DATE 06-14-76 | 160 | 92.5 | 93.5 | 94.8 | 95.6 | 97.4 | 98.5 | 100.4 | 103.6 | 107.3 | 112.4 | 117.6 | 120.5 | 120.0 | 165.4 |
| RUN CONF 4 HIGHFLW | 200 | 96.1 | 96.9 | 97.6 | 97.4 | 99.0 | 99.8 | 101.7 | 104.2 | 108.1 | 112.2 | 116.1 | 119.1 | 119.9 | 165.4 |
| TAPE X04470 | 250 | 95.4 | 97.0 | 98.0 | 98.5 | 99.8 | 101.7 | 102.3 | 105.7 | 109.0 | 112.3 | 115.2 | 120.4 | 120.7 | 165.3 |
| BAR 29.2 HG | 315 | 96.8 | 98.3 | 97.8 | 99.1 | 100.2 | 101.3 | 103.0 | 105.4 | 109.6 | 113.2 | 115.1 | 120.5 | 120.3 | 165.4 |
| (98672. N/M2) | 400 | 99.8 | 99.6 | 99.6 | 99.4 | 100.3 | 101.6 | 103.9 | 106.8 | 111.0 | 112.6 | 116.1 | 119.5 | 117.0 | 165.1 |
| TAMB 83. DEG F | 500 | 102.0 | 101.8 | 101.8 | 101.0 | 103.9 | 103.0 | 104.4 | 107.6 | 111.3 | 114.1 | 117.1 | 118.7 | 115.3 | 164.8 |
| (302. DEG K) | 630 | 102.2 | 103.3 | 103.6 | 102.9 | 103.5 | 103.8 | 105.0 | 107.9 | 110.9 | 113.7 | 116.4 | 116.3 | 112.8 | 165.0 |
| TWET 73. DEG F | 800 | 101.3 | 102.3 | 103.3 | 104.0 | 103.9 | 104.0 | 105.6 | 108.0 | 111.3 | 113.1 | 116.6 | 115.5 | 112.0 | 164.0 |
| HACT17.24 GM/M3 | 1000 | 99.1 | 102.2 | 103.7 | 104.2 | 105.3 | 105.9 | 107.0 | 108.7 | 111.2 | 113.3 | 114.5 | 114.1 | 111.2 | 163.8 |
| (.01724 KG/M3) | 1600 | 98.0 | 101.3 | 102.9 | 105.2 | 106.2 | 106.1 | 107.5 | 109.7 | 111.2 | 113.0 | 113.7 | 112.8 | 109.6 | 163.4 |
| FREQ. SHIFT | 2000 | 96.6 | 101.2 | 102.8 | 104.6 | 106.6 | 105.2 | 107.4 | 109.3 | 111.1 | 111.7 | 112.4 | 112.5 | 109.2 | 163.2 |
| DIAMETER RATIO | 2500 | 95.1 | 99.6 | 102.0 | 103.7 | 105.2 | 105.3 | 107.2 | 108.1 | 109.7 | 109.9 | 110.3 | 110.1 | 107.3 | 162.7 |
| DF/DM 4.78 | 3150 | 93.7 | 98.4 | 100.4 | 103.8 | 105.1 | 104.9 | 107.4 | 106.9 | 108.9 | 108.9 | 108.7 | 109.0 | 106.9 | 161.4 |
| OVERALL CALCULATED | 4000 | 90.8 | 95.6 | 99.2 | 100.8 | 105.1 | 103.2 | 106.6 | 104.9 | 106.7 | 106.0 | 107.4 | 106.6 | 105.2 | 160.8 |
| | 5000 | 89.1 | 94.1 | 96.7 | 99.0 | 102.0 | 101.7 | 102.8 | 103.4 | 105.7 | 104.6 | 106.7 | 104.6 | 102.9 | 159.4 |
| | 6300 | 87.6 | 93.4 | 96.8 | 98.8 | 101.5 | 101.0 | 103.2 | 102.5 | 103.8 | 103.3 | 104.8 | 106.8 | 101.8 | 157.7 |
| | 8000 | 84.8 | 90.5 | 94.8 | 97.4 | 98.5 | 98.5 | 100.7 | 100.1 | 102.3 | 103.6 | 105.2 | 105.9 | 100.8 | 157.7 |
| | 10000 | 81.3 | 86.4 | 91.7 | 93.3 | 93.7 | 94.3 | 95.6 | 96.3 | 99.0 | 100.7 | 103.8 | 101.9 | 98.3 | 155.3 |
| | 12500 | 80.1 | 84.3 | 90.5 | 91.0 | 91.6 | 91.5 | 92.1 | 94.6 | 97.3 | 99.6 | 104.2 | 100.0 | 95.5 | 155.9 |
| | 16000 | 82.4 | 85.9 | 92.7 | 90.9 | 91.1 | 92.0 | 93.2 | 94.4 | 98.2 | 102.1 | 106.3 | 100.5 | 97.0 | 160.5 |
| | PND8 | 120.2 | 123.7 | 125.6 | 127.5 | 129.0 | 128.9 | 130.9 | 131.7 | 134.0 | 135.3 | 137.2 | 138.3 | 136.6 | 177.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 447 ACUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(53ft²)

| NO EGA
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) | (0.8) | (1.0) | (1.2) | (1.4) | (1.6) | (1.8) | (2.0) | (2.2) | (2.4) | (2.6) | (2.8) | (3.0) |
| SIDELINE 2400. FT. | 57.2 | 61.8 | 64.7 | 65.9 | 67.0 | 68.2 | 71.2 | 72.7 | 74.2 | 77.7 | 82.8 | 83.5 | 81.3 |
| | 58.8 | 65.1 | 66.0 | 66.7 | 70.0 | 71.5 | 72.5 | 73.7 | 76.0 | 80.2 | 84.8 | 86.2 | 83.0 |
| NFA (0. RAD/SEC) | 100 | 61.4 | 63.8 | 66.5 | 68.2 | 70.0 | 72.0 | 73.2 | 75.5 | 78.2 | 84.7 | 88.5 | 83.8 |
| | 125 | 62.4 | 66.1 | 67.2 | 69.2 | 71.5 | 73.0 | 74.5 | 77.0 | 80.0 | 84.2 | 88.5 | 84.6 |
| NFK (1. RAD/SEC) | 200 | 63.8 | 66.4 | 68.9 | 70.4 | 72.7 | 73.9 | 75.7 | 78.4 | 81.4 | 85.3 | 88.8 | 89.3 |
| | 250 | 66.2 | 69.5 | 71.7 | 73.0 | 74.8 | 76.8 | 77.3 | 80.3 | 82.7 | 84.8 | 86.0 | 88.6 |
| NFD (7500. RPM) | 315 | 67.2 | 70.6 | 71.3 | 73.4 | 75.0 | 76.2 | 77.7 | 79.7 | 83.1 | 85.4 | 85.6 | 88.3 |
| | 400 | 69.8 | 71.5 | 72.8 | 73.4 | 74.7 | 76.2 | 77.7 | 79.7 | 83.3 | 85.1 | 85.9 | 87.3 |
| AIRFLOW RATIO | 500 | 71.4 | 73.2 | 74.5 | 74.7 | 75.8 | 76.3 | 78.0 | 80.4 | 83.8 | 84.1 | 85.5 | 86.0 |
| WF/WM 4.78 | 630 | 71.0 | 74.1 | 75.3 | 76.2 | 77.6 | 76.9 | 78.1 | 80.7 | 83.6 | 85.0 | 85.9 | 84.4 |
| | 800 | 69.2 | 72.5 | 75.2 | 75.5 | 76.6 | 77.1 | 78.1 | 80.5 | 82.5 | 83.8 | 84.3 | 80.8 |
| VEHICLE CELL41 | 1000 | 66.5 | 71.2 | 74.1 | 75.9 | 76.3 | 76.6 | 78.0 | 79.9 | 82.1 | 82.4 | 83.4 | 78.5 |
| CONFIG NC56 | 1250 | 64.5 | 70.2 | 73.5 | 75.1 | 76.8 | 77.7 | 78.6 | 79.6 | 81.0 | 81.4 | 80.0 | 75.4 |
| LOC C41 ANECH CH | 1600 | 61.5 | 67.8 | 71.3 | 74.8 | 76.6 | 76.6 | 77.8 | 79.3 | 79.6 | 77.2 | 71.6 | 59.8 |
| DATE 06-14-76 | 2000 | 57.8 | 65.8 | 69.5 | 72.6 | 75.5 | 74.3 | 76.2 | 77.4 | 77.8 | 76.3 | 73.6 | 55.0 |
| RUN CONF4HIGHFLW | 2500 | 52.9 | 61.4 | 66.2 | 69.5 | 71.9 | 72.3 | 73.9 | 73.9 | 74.0 | 71.7 | 68.1 | 46.7 |
| TAPE X04470 | 3150 | 46.2 | 55.7 | 60.7 | 66.0 | 68.4 | 68.5 | 70.6 | 69.1 | 69.2 | 66.1 | 61.2 | 53.4 |
| FAN TIP SPEED | 4000 | 35.2 | 46.1 | 53.6 | 57.6 | 63.2 | 61.7 | 64.7 | 61.7 | 61.1 | 56.5 | 51.7 | 40.5 |
| FT/SEC | 5000 | 28.8 | 40.7 | 47.7 | 52.7 | 57.1 | 57.3 | 57.9 | 57.1 | 56.7 | 51.2 | 46.4 | 32.4 |
| | 6300 | 13.6 | 28.6 | 37.7 | 43.2 | 47.9 | 48.0 | 49.5 | 47.0 | 44.7 | 38.5 | 30.8 | 16.8 |
| | 8000 | 8.1 | 20.3 | 27.7 | 31.4 | 34.4 | 32.2 | 33.6 | 30.4 | 27.8 | 21.3 | 10.1 | |
| | 10000 | | | 3.9 | 7.8 | 9.7 | 9.5 | 9.7 | 6.8 | 3.0 | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 78.8 | 82.1 | 84.2 | 85.6 | 87.2 | 87.8 | 89.2 | 91.2 | 93.6 | 95.8 | 98.0 | 98.6 | 94.0 |
| PNDB | 84.5 | 88.6 | 91.7 | 94.2 | 96.5 | 96.5 | 98.1 | 99.4 | 100.7 | 101.4 | 102.0 | 101.7 | 95.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 4 447 731.5m(2400ft.) SIDELINE FULL-.33m(.513in?)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO EGA | RADIOAL | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | PROC. DATE - MONTH 8 DAY 27 HR. 11.9 | | | | PWL |
|----------|----------|---------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|-------|-----|-----|-----|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 83 | 84.9 | 83.7 | 91.4 | 93.0 | 94.3 | 93.2 | 94.5 | 95.2 | 96.4 | 97.2 | 101.2 | 101.9 | 105.4 | 139.3 | | | |
| 80 | 100 | 82.8 | 88.6 | 89.1 | 90.7 | 93.2 | 94.6 | 95.5 | 96.4 | 95.1 | 93.9 | 102.4 | 105.1 | 106.9 | 140.2 | | | |
| 125 | 160 | 83.6 | 86.2 | 89.7 | 91.0 | 90.7 | 91.5 | 92.9 | 95.8 | 98.5 | 102.4 | 106.1 | 112.8 | 113.0 | 141.2 | | | |
| 200 | 250 | 85.3 | 86.3 | 87.8 | 89.3 | 90.7 | 91.5 | 92.9 | 95.8 | 98.5 | 102.4 | 106.1 | 112.8 | 113.0 | 144.8 | | | |
| 315 | 400 | 84.3 | 87.8 | 89.8 | 89.9 | 91.2 | 92.6 | 95.5 | 97.4 | 99.3 | 103.4 | 111.1 | 114.0 | 114.6 | 147.5 | | | |
| 500 | 630 | 86.4 | 91.7 | 89.2 | 91.0 | 94.1 | 95.2 | 96.1 | 98.5 | 100.7 | 106.3 | 113.0 | 116.1 | 116.7 | 149.6 | | | |
| 800 | 1000 | 89.3 | 90.5 | 91.8 | 92.3 | 94.2 | 95.8 | 97.2 | 99.8 | 103.3 | 110.4 | 116.3 | 119.0 | 116.8 | 151.3 | | | |
| 1250 | 1600 | 90.6 | 92.1 | 92.9 | 94.2 | 95.3 | 96.4 | 98.8 | 100.9 | 104.9 | 110.7 | 117.2 | 119.9 | 117.6 | 152.0 | | | |
| 2000 | 2500 | 92.6 | 93.4 | 93.9 | 95.2 | 96.8 | 98.2 | 99.8 | 102.5 | 106.4 | 111.2 | 117.4 | 120.4 | 118.9 | 152.8 | | | |
| 3150 | 4000 | 97.5 | 97.5 | 97.7 | 97.5 | 98.9 | 99.2 | 100.6 | 103.5 | 107.0 | 111.3 | 116.5 | 120.0 | 119.0 | 153.5 | | | |
| 5000 | 6300 | 100.5 | 100.1 | 99.8 | 99.1 | 100.2 | 100.8 | 102.5 | 104.9 | 108.3 | 111.7 | 116.4 | 121.3 | 118.8 | 153.5 | | | |
| 8000 | 10000 | 107.1 | 105.7 | 103.2 | 102.2 | 100.6 | 101.4 | 102.1 | 104.2 | 108.7 | 112.0 | 116.0 | 120.9 | 117.9 | 153.8 | | | |
| 12500 | 16000 | 108.4 | 107.5 | 107.2 | 105.8 | 104.4 | 102.2 | 102.9 | 105.5 | 109.7 | 112.3 | 116.3 | 120.0 | 115.5 | 153.6 | | | |
| 20000 | 25000 | 106.3 | 107.3 | 107.4 | 107.1 | 108.0 | 105.8 | 103.7 | 106.1 | 110.6 | 112.4 | 117.6 | 119.1 | 113.3 | 153.8 | | | |
| 31500 | 40000 | 104.5 | 105.8 | 106.3 | 107.4 | 108.5 | 107.3 | 107.0 | 107.1 | 111.1 | 113.7 | 117.6 | 117.0 | 112.3 | 152.7 | | | |
| 50000 | 63000 | 104.4 | 104.9 | 105.4 | 106.7 | 106.6 | 107.7 | 108.9 | 110.4 | 112.7 | 116.4 | 115.6 | 109.6 | 152.2 | | | | |
| 80000 | 100000 | 104.6 | 104.4 | 105.4 | 105.6 | 106.5 | 107.4 | 108.5 | 109.6 | 111.0 | 112.4 | 115.3 | 114.2 | 108.7 | 152.0 | | | |
| 125000 | 160000 | 103.6 | 103.6 | 104.4 | 105.4 | 107.2 | 108.8 | 108.7 | 109.7 | 111.7 | 112.0 | 112.7 | 111.6 | 106.6 | 151.8 | | | |
| 200000 | 250000 | 101.5 | 102.6 | 104.8 | 107.2 | 108.3 | 108.2 | 109.1 | 110.6 | 111.2 | 111.2 | 110.8 | 105.3 | 151.3 | | | | |
| 315000 | 400000 | 99.3 | 100.9 | 103.6 | 105.2 | 105.5 | 107.7 | 108.0 | 108.6 | 108.6 | 109.0 | 108.6 | 104.5 | 150.1 | | | | |
| 500000 | 630000 | 98.1 | 99.2 | 102.7 | 105.0 | 106.6 | 106.7 | 106.0 | 108.0 | 106.7 | 107.1 | 106.9 | 103.6 | 149.7 | | | | |
| 800000 | 1000000 | 94.5 | 97.1 | 99.3 | 103.5 | 102.4 | 103.0 | 103.1 | 104.9 | 104.2 | 104.5 | 103.7 | 100.4 | 148.2 | | | | |
| 1250000 | 1600000 | 92.2 | 93.4 | 96.4 | 99.4 | 99.1 | 100.2 | 100.1 | 102.4 | 100.8 | 103.3 | 99.9 | 96.3 | 146.5 | | | | |
| 2000000 | 2500000 | 89.5 | 91.9 | 94.6 | 97.6 | 96.3 | 98.5 | 97.9 | 99.6 | 98.4 | 100.2 | 100.4 | 94.3 | 146.5 | | | | |
| 3150000 | 4000000 | 84.5 | 88.3 | 90.6 | 92.5 | 92.0 | 94.7 | 93.6 | 95.6 | 96.4 | 98.0 | 97.4 | 90.5 | 146.2 | | | | |
| 5000000 | 6300000 | 72.3 | 77.3 | 82.2 | 84.6 | 84.7 | 85.5 | 86.5 | 87.0 | 91.4 | 93.3 | 90.4 | 85.8 | 144.5 | | | | |
| 8000000 | 10000000 | 65.6 | 70.5 | 76.6 | 77.8 | 78.8 | 80.8 | 81.1 | 80.6 | 87.7 | 83.5 | 75.1 | 70.0 | 144.7 | | | | |
| 12500000 | 16000000 | 60.6 | 64.6 | 71.7 | 71.9 | 70.8 | 72.2 | 74.4 | 75.1 | 79.2 | 84.1 | 84.3 | 78.5 | 150.0 | | | | |
| 20000000 | 25000000 | 114.7 | 115.3 | 116.6 | 117.4 | 117.0 | 118.2 | 119.4 | 121.8 | 124.0 | 128.3 | 130.6 | 128.3 | 165.6 | | | | |
| 31500000 | 40000000 | 127.1 | 128.2 | 128.4 | 129.0 | 129.4 | 130.1 | 131.7 | 134.2 | 136.8 | 140.9 | 142.2 | 138.5 | | | | | |

OVERALL MEASURED
 OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 448 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| ROG. NO. | NO EGA | PROC. DATE - MONTH 8 DAY 27 HR. 12.2 | | | | | | | | | | | | | |
|--------------------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | |
| FREQ. | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 161.1 |
| 63 | 88.5 | 89.9 | 91.9 | 92.0 | 93.3 | 94.7 | 97.6 | 99.5 | 101.4 | 105.5 | 113.2 | 116.2 | 116.7 | 116.7 | 163.2 |
| 80 | 90.6 | 92.6 | 94.1 | 94.1 | 96.2 | 97.3 | 98.2 | 100.6 | 102.8 | 108.4 | 115.1 | 118.3 | 118.8 | 118.8 | 164.9 |
| 100 | 91.4 | 92.7 | 93.9 | 94.4 | 96.3 | 97.9 | 99.3 | 101.9 | 105.4 | 112.5 | 118.4 | 121.1 | 118.9 | 118.9 | 165.6 |
| 125 | 92.7 | 94.3 | 95.0 | 96.3 | 97.4 | 98.5 | 100.3 | 103.1 | 107.0 | 112.8 | 119.3 | 122.0 | 119.8 | 119.8 | 166.4 |
| 160 | 94.8 | 95.5 | 96.0 | 97.3 | 98.9 | 100.3 | 101.9 | 104.6 | 108.5 | 113.4 | 119.6 | 122.5 | 121.0 | 121.0 | 167.1 |
| 200 | 99.6 | 99.6 | 99.9 | 99.7 | 101.0 | 101.4 | 102.7 | 105.7 | 109.1 | 113.4 | 118.6 | 122.1 | 121.1 | 121.1 | 166.8 |
| 250 | 102.7 | 102.2 | 102.0 | 101.2 | 102.3 | 103.0 | 104.6 | 107.0 | 110.5 | 113.8 | 118.5 | 123.4 | 121.0 | 121.0 | 167.5 |
| 315 | 109.3 | 107.8 | 105.3 | 104.4 | 102.7 | 103.6 | 104.2 | 106.4 | 110.8 | 114.2 | 118.1 | 123.0 | 120.1 | 120.1 | 167.4 |
| 400 | 110.6 | 109.6 | 109.4 | 107.9 | 106.5 | 104.4 | 105.0 | 107.7 | 111.9 | 114.5 | 118.4 | 122.1 | 117.6 | 117.6 | 167.2 |
| 500 | 108.5 | 109.5 | 109.5 | 109.3 | 110.1 | 108.0 | 105.9 | 108.3 | 112.8 | 114.6 | 119.8 | 121.2 | 115.5 | 115.5 | 167.4 |
| 630 | 106.7 | 108.0 | 108.5 | 109.6 | 110.6 | 109.5 | 109.1 | 109.3 | 113.3 | 115.9 | 119.8 | 119.2 | 114.5 | 114.5 | 167.2 |
| 800 | 105.3 | 106.6 | 107.1 | 107.6 | 109.0 | 108.8 | 110.0 | 111.1 | 112.6 | 115.0 | 118.7 | 117.8 | 111.8 | 111.8 | 166.2 |
| 1000 | 104.7 | 106.2 | 107.0 | 107.8 | 107.9 | 108.7 | 109.6 | 112.3 | 113.3 | 114.6 | 117.6 | 116.5 | 111.0 | 111.0 | 165.8 |
| 1250 | 103.6 | 105.9 | 106.7 | 107.7 | 109.5 | 109.2 | 110.5 | 112.2 | 113.7 | 114.1 | 116.2 | 115.4 | 110.7 | 110.7 | 165.5 |
| 1600 | 102.5 | 104.3 | 105.9 | 107.9 | 109.2 | 109.3 | 111.2 | 112.2 | 114.2 | 114.5 | 115.2 | 114.1 | 109.1 | 109.1 | 165.4 |
| 2000 | 101.1 | 104.2 | 105.3 | 107.6 | 109.9 | 109.0 | 110.9 | 111.8 | 113.3 | 114.0 | 113.9 | 113.5 | 108.0 | 108.0 | 164.9 |
| 2500 | 99.3 | 102.3 | 104.0 | 106.7 | 108.2 | 108.6 | 110.7 | 111.1 | 111.5 | 111.7 | 112.1 | 111.6 | 107.6 | 107.6 | 163.7 |
| 3150 | 98.2 | 101.7 | 102.9 | 106.3 | 108.6 | 108.2 | 110.4 | 109.6 | 111.6 | 110.4 | 110.7 | 110.5 | 107.2 | 107.2 | 163.3 |
| 4000 | 95.8 | 98.9 | 101.5 | 103.6 | 107.9 | 106.7 | 109.4 | 107.4 | 109.2 | 108.5 | 108.9 | 108.1 | 104.7 | 104.7 | 161.8 |
| 5000 | 93.6 | 97.9 | 99.0 | 102.1 | 105.0 | 104.8 | 105.7 | 108.0 | 106.4 | 106.4 | 108.9 | 105.5 | 101.9 | 101.9 | 160.1 |
| 6300 | 92.4 | 96.7 | 99.1 | 101.8 | 104.6 | 103.5 | 105.7 | 105.1 | 106.8 | 105.6 | 107.4 | 107.6 | 101.6 | 101.6 | 159.8 |
| 8000 | 88.8 | 94.1 | 97.9 | 100.2 | 102.0 | 101.6 | 104.3 | 102.9 | 105.1 | 106.0 | 107.5 | 107.0 | 100.1 | 100.1 | 158.1 |
| 10000 | 84.8 | 89.9 | 94.8 | 97.1 | 97.3 | 98.1 | 99.1 | 99.6 | 103.1 | 104.0 | 105.9 | 103.0 | 98.4 | 98.4 | 158.3 |
| 12500 | 82.7 | 87.6 | 93.6 | 94.9 | 94.9 | 95.8 | 95.9 | 97.9 | 101.2 | 103.7 | 104.8 | 100.6 | 92.1 | 92.1 | 158.3 |
| 16000 | 84.0 | 88.0 | 95.1 | 95.3 | 94.2 | 95.6 | 97.8 | 98.5 | 102.6 | 107.5 | 107.7 | 101.9 | 93.4 | 93.4 | 163.6 |
| OVERALL CALCULATED | 116.9 | 117.6 | 118.0 | 118.9 | 120.2 | 119.7 | 121.1 | 122.1 | 124.4 | 126.5 | 130.5 | 132.7 | 130.2 | 130.2 | 179.1 |
| PNDB | 125.6 | 127.5 | 128.6 | 130.7 | 132.6 | 132.2 | 133.9 | 134.3 | 136.4 | 137.1 | 139.2 | 139.9 | 136.4 | 136.4 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 4 FULL-33m²(513m²)

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 27 HR. 12.2

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--|---|---|---|---|---|--|--|--|--|--|--|----------------------------------|----------------------------|
| | 40.
FREQ. (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)(3.00)(3.15) | 50.
(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 60.
(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 70.
(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 80.
(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 90.
(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 100.
(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 110.
(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 120.
(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 130.
(2.27)(2.44)(2.62)(2.79)(3.00)(3.15) | 140.
(2.44)(2.62)(2.79)(3.00)(3.15) | 150.
(2.62)(2.79)(3.00)(3.15) | 160.
(2.79)(3.00)(3.15) |
| NFA (1. RPM | 58.2 | 63.3 | 66.4 | 67.2 | 69.0 | 70.5 | 73.2 | 74.7 | 75.9 | 78.9 | 85.0 | 85.7 | 82.8 |
| MFK (0. RAD/SEC | 63 | 60.3 | 67.1 | 68.2 | 71.8 | 73.0 | 73.8 | 75.7 | 77.2 | 81.7 | 86.8 | 87.7 | 84.8 |
| (7500. RPM | 80 | 62.2 | 65.8 | 68.4 | 69.2 | 71.5 | 72.5 | 73.5 | 76.0 | 78.4 | 84.4 | 89.5 | 84.9 |
| (785. RAD/SEC | 100 | 62.9 | 65.8 | 68.2 | 69.5 | 71.7 | 73.5 | 74.7 | 77.0 | 85.7 | 90.0 | 90.4 | 84.5 |
| AIRFLOW RATIO | 125 | 64.2 | 67.3 | 69.2 | 71.2 | 72.8 | 74.0 | 76.3 | 78.0 | 81.2 | 85.9 | 90.7 | 85.1 |
| WF/WM 4.78 | 160 | 66.0 | 68.4 | 70.1 | 72.1 | 74.2 | 75.7 | 77.2 | 79.4 | 82.6 | 86.3 | 90.8 | 86.1 |
| VEHICLE | 200 | 70.6 | 72.4 | 73.8 | 74.3 | 76.1 | 77.9 | 79.6 | 81.5 | 83.0 | 86.3 | 89.7 | 90.6 |
| CONFIG | 250 | 73.5 | 74.7 | 75.7 | 75.8 | 77.3 | 78.1 | 79.6 | 81.5 | 83.0 | 86.3 | 89.3 | 91.6 |
| LOC C41 ANECH CH | 315 | 79.7 | 80.1 | 78.8 | 78.7 | 77.5 | 78.5 | 79.0 | 80.7 | 84.3 | 86.4 | 88.6 | 90.8 |
| DATE 06-14-76 | 400 | 80.6 | 81.5 | 82.5 | 81.9 | 81.0 | 79.0 | 79.5 | 81.7 | 85.0 | 86.4 | 88.4 | 89.3 |
| RUN CONF4HIGHFLW | 500 | 77.9 | 80.9 | 82.3 | 82.9 | 84.3 | 82.3 | 80.0 | 81.9 | 85.5 | 86.0 | 89.3 | 80.3 |
| TAPE X04480 | 630 | 75.5 | 78.9 | 80.8 | 82.7 | 84.3 | 83.4 | 82.8 | 82.5 | 85.6 | 86.7 | 88.6 | 84.9 |
| FAN TIP SPEED | 800 | 73.2 | 76.7 | 78.7 | 80.2 | 82.1 | 83.1 | 83.7 | 84.2 | 85.1 | 86.6 | 82.3 | 70.4 |
| FT/SEC | 1000 | 71.5 | 75.5 | 77.8 | 79.6 | 80.3 | 81.3 | 82.0 | 84.1 | 84.1 | 83.8 | 84.4 | 79.5 |
| | 1250 | 69.0 | 74.0 | 76.5 | 78.6 | 81.1 | 80.9 | 82.1 | 83.1 | 83.5 | 82.2 | 81.7 | 76.6 |
| | 1600 | 66.0 | 70.8 | 74.3 | 77.5 | 79.6 | 79.9 | 81.6 | 81.8 | 82.6 | 81.0 | 78.7 | 72.9 |
| | PNDB | 62.3 | 68.8 | 72.0 | 75.6 | 78.7 | 78.1 | 79.7 | 79.9 | 80.0 | 78.5 | 75.1 | 69.3 |
| | | 57.2 | 64.1 | 68.2 | 72.5 | 74.9 | 75.6 | 77.4 | 76.9 | 75.7 | 73.4 | 69.9 | 63.1 |
| | | 50.7 | 59.0 | 63.2 | 68.5 | 71.9 | 71.8 | 73.6 | 71.8 | 72.0 | 67.6 | 63.2 | 55.0 |
| | | 40.2 | 49.4 | 55.9 | 60.4 | 66.0 | 65.2 | 67.5 | 64.2 | 63.6 | 59.0 | 53.3 | 42.0 |
| | | 33.3 | 44.5 | 50.0 | 55.7 | 60.2 | 60.3 | 60.9 | 59.3 | 59.0 | 53.0 | 48.6 | 33.4 |
| | | 18.3 | 31.9 | 40.0 | 46.2 | 50.9 | 50.5 | 52.1 | 49.5 | 47.8 | 40.8 | 33.3 | 17.6 |
| | | 11.7 | 23.4 | 30.5 | 34.9 | 35.3 | 37.1 | 33.2 | 30.6 | 23.6 | 12.4 | | |
| | | 7.7 | 11.4 | 13.3 | 13.2 | 10.1 | 7.1 | | | | | | |

OVERALL CALCULATED 86.0 88.1 89.4 90.5 91.8 91.5 92.2 93.4 95.3 97.2 100.4 100.6 94.7
 91.6 94.3 96.1 97.9 100.2 100.0 101.2 101.7 102.9 102.9 104.6 103.7 95.9

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE

4 448 731.5m(2400ft.) SIDELINE FULL-.33m(1513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 27 MR. 11.9
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 0. 30. 60. 90. 120. 150. 180.
 FREQ. (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)(3.15)(3.5)(4.0)

| NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| RDG. NO. 0. | | | | | | | | | | | | | | | | |
| RADIAL 40. FT. | 86.4 | 95.2 | 92.7 | 94.0 | 95.0 | 94.9 | 96.5 | 96.2 | 97.7 | 98.7 | 98.7 | 102.4 | 103.1 | 106.7 | 140.6 | |
| (12. M) | 84.3 | 89.4 | 89.6 | 91.9 | 94.5 | 96.1 | 94.5 | 96.1 | 97.7 | 98.4 | 95.4 | 103.9 | 106.6 | 107.9 | 141.5 | |
| VEHICLE CELL41 | 85.1 | 87.4 | 91.4 | 91.0 | 92.0 | 91.9 | 92.3 | 93.7 | 95.4 | 100.0 | 105.9 | 107.4 | 110.4 | 142.6 | | |
| CONFIG KC54 | 87.5 | 88.0 | 89.5 | 90.8 | 92.5 | 92.5 | 94.2 | 96.6 | 99.5 | 103.1 | 107.6 | 112.3 | 114.5 | 146.2 | | |
| LOC C41 ANECH CH | 89.1 | 90.6 | 90.9 | 92.2 | 93.3 | 93.3 | 96.2 | 98.4 | 100.3 | 104.7 | 112.1 | 114.5 | 116.1 | 148.5 | | |
| DATE C6-14-76 | 87.9 | 92.7 | 90.2 | 92.2 | 93.3 | 96.2 | 97.1 | 99.2 | 101.7 | 107.8 | 114.2 | 117.4 | 117.7 | 150.8 | | |
| RUN CONFHIGHFLW | 89.9 | 91.5 | 93.5 | 93.0 | 94.8 | 96.2 | 97.1 | 100.0 | 103.5 | 110.5 | 117.0 | 118.7 | 118.0 | 152.3 | | |
| TAPE X04840 | 91.0 | 91.3 | 92.8 | 93.1 | 95.4 | 97.0 | 98.7 | 100.8 | 104.5 | 112.4 | 117.8 | 120.3 | 118.5 | 153.5 | | |
| BAR 29.2 HG | 91.9 | 93.1 | 93.9 | 95.2 | 96.8 | 97.6 | 100.3 | 102.4 | 106.4 | 112.2 | 118.2 | 120.6 | 119.4 | 153.9 | | |
| (98638. N/M2) | 94.1 | 94.7 | 95.4 | 96.5 | 97.8 | 99.4 | 101.0 | 103.5 | 108.2 | 113.5 | 118.4 | 121.4 | 120.4 | 154.7 | | |
| TAMB 83. DEG F | 97.7 | 98.5 | 98.7 | 98.8 | 99.9 | 100.7 | 102.1 | 105.0 | 108.5 | 113.1 | 117.5 | 120.7 | 121.0 | 154.5 | | |
| (301. DEG K) | 99.3 | 100.3 | 100.8 | 101.4 | 101.7 | 102.6 | 103.5 | 106.4 | 109.8 | 113.4 | 117.4 | 121.8 | 120.3 | 154.9 | | |
| TWET 72. DEG F | 103.6 | 102.9 | 101.7 | 101.2 | 101.3 | 102.2 | 103.3 | 106.4 | 109.8 | 113.4 | 117.4 | 121.8 | 120.3 | 154.9 | | |
| (296. DEG K) | 106.2 | 105.2 | 104.5 | 103.5 | 103.4 | 103.0 | 104.1 | 107.3 | 110.5 | 113.6 | 117.5 | 120.7 | 117.2 | 154.3 | | |
| HACT16.80 GM/M3 | 107.3 | 107.6 | 107.4 | 105.6 | 105.5 | 104.6 | 104.7 | 107.9 | 112.1 | 113.2 | 117.4 | 119.6 | 115.1 | 154.1 | | |
| (6.01680 KG/M3) | 106.3 | 107.1 | 107.6 | 107.9 | 108.2 | 106.1 | 106.5 | 108.4 | 112.3 | 114.2 | 117.9 | 118.0 | 114.1 | 154.2 | | |
| FREQ. SHIFT | 104.0 | 105.6 | 106.4 | 106.7 | 108.2 | 107.3 | 107.5 | 109.2 | 111.6 | 113.5 | 116.7 | 116.3 | 111.3 | 153.4 | | |
| JET | 102.9 | 105.0 | 106.0 | 107.3 | 107.4 | 108.5 | 108.1 | 109.8 | 112.0 | 113.4 | 115.8 | 115.2 | 111.7 | 153.2 | | |
| DIAMETER RATIO | 102.2 | 104.6 | 106.1 | 106.6 | 103.4 | 108.6 | 109.7 | 110.1 | 112.4 | 113.5 | 114.7 | 114.3 | 111.1 | 153.2 | | |
| DF/DN 1.00 | 101.3 | 103.1 | 105.2 | 106.9 | 108.7 | 108.6 | 110.2 | 110.4 | 111.9 | 113.0 | 113.5 | 112.6 | 109.3 | 152.9 | | |
| | 99.4 | 103.0 | 104.8 | 106.6 | 109.2 | 108.0 | 109.7 | 110.6 | 111.8 | 112.2 | 111.7 | 111.5 | 108.3 | 152.7 | | |
| | 97.5 | 101.5 | 103.4 | 105.6 | 108.2 | 107.5 | 109.4 | 109.3 | 109.9 | 109.8 | 110.0 | 109.3 | 106.3 | 151.7 | | |
| | 96.6 | 99.6 | 101.5 | 104.4 | 107.2 | 106.3 | 108.7 | 107.2 | 108.5 | 107.7 | 103.4 | 108.4 | 105.1 | 151.2 | | |
| | 93.0 | 97.0 | 99.4 | 101.3 | 103.5 | 104.6 | 106.8 | 104.3 | 105.9 | 104.9 | 104.8 | 105.3 | 102.2 | 149.7 | | |
| | 90.3 | 94.0 | 95.4 | 98.5 | 101.2 | 100.7 | 101.4 | 101.8 | 103.9 | 101.5 | 104.1 | 100.9 | 99.0 | 147.9 | | |
| | 87.5 | 91.7 | 94.6 | 97.1 | 99.6 | 98.8 | 100.5 | 99.9 | 100.9 | 99.7 | 101.2 | 101.9 | 96.9 | 148.3 | | |
| | 82.3 | 86.8 | 91.1 | 92.9 | 94.5 | 94.3 | 96.5 | 95.6 | 96.9 | 97.9 | 98.3 | 99.0 | 94.3 | 147.8 | | |
| | 75.0 | 80.4 | 86.0 | 87.1 | 87.2 | 87.8 | 89.1 | 89.3 | 91.8 | 92.7 | 94.4 | 92.2 | 87.8 | 146.3 | | |
| | 67.9 | 72.6 | 79.7 | 80.6 | 80.9 | 81.8 | 81.9 | 83.9 | 85.9 | 88.9 | 90.8 | 85.6 | 82.1 | 147.4 | | |
| | 61.5 | 67.0 | 74.8 | 75.2 | 75.7 | 76.1 | 78.0 | 77.9 | 81.3 | 85.8 | 86.9 | 79.6 | 75.6 | 152.4 | | |
| OVERALL MEASURED | 114.5 | 115.6 | 116.4 | 117.0 | 118.6 | 118.2 | 119.4 | 120.4 | 122.9 | 125.3 | 129.1 | 131.4 | 129.9 | 166.8 | | |
| OVERALL CALCULATED | 127.7 | 128.7 | 129.3 | 129.6 | 130.4 | 130.1 | 130.7 | 132.4 | 135.4 | 137.8 | 141.5 | 142.9 | 140.2 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 484 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEROMTS)
 PROC. DATE - MONTH 8 DAY 27 HR. 12.2

| MO EGA | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| RDG. NO. 0. | 50 | 87.9 | 91.2 | 93.0 | 94.3 | 95.4 | 98.3 | 100.5 | 102.4 | 106.8 | 114.2 | 116.7 | 118.2 | 162.1 |
| RADIAL 150. FT. | 63 | 90.0 | 94.8 | 92.3 | 93.0 | 97.4 | 98.3 | 99.2 | 101.3 | 103.8 | 109.9 | 116.3 | 119.8 | 164.4 |
| (46. M) | 80 | 92.1 | 93.6 | 95.6 | 95.1 | 97.0 | 98.3 | 99.2 | 102.1 | 105.6 | 112.6 | 119.1 | 120.8 | 165.9 |
| VEHICLE CELL 41 | 100 | 93.1 | 93.4 | 94.9 | 95.2 | 97.5 | 99.2 | 100.8 | 102.9 | 106.7 | 114.5 | 119.9 | 122.4 | 167.1 |
| CONFIG NCS6 | 125 | 94.0 | 95.3 | 96.0 | 97.3 | 98.9 | 99.8 | 102.4 | 104.6 | 108.5 | 114.3 | 120.3 | 122.7 | 167.5 |
| LOC C41 ANECH CH | 160 | 96.3 | 96.8 | 97.5 | 98.6 | 99.9 | 101.5 | 103.2 | 105.6 | 110.3 | 115.6 | 120.6 | 123.5 | 168.3 |
| DATE 06-14-76 | 200 | 99.8 | 100.6 | 100.9 | 100.9 | 102.0 | 102.9 | 104.2 | 107.2 | 110.6 | 115.2 | 119.6 | 122.8 | 168.1 |
| RUN CONF4HIGHFLW | 250 | 101.4 | 102.5 | 103.0 | 102.5 | 103.8 | 104.7 | 105.6 | 108.5 | 112.0 | 115.5 | 119.5 | 123.9 | 168.5 |
| TAPE X04840 | 315 | 105.8 | 105.1 | 103.8 | 103.4 | 103.5 | 104.3 | 105.5 | 108.1 | 112.3 | 115.7 | 119.4 | 123.5 | 168.2 |
| BAR 29.2 HG | 400 | 108.3 | 107.4 | 106.6 | 105.7 | 105.5 | 105.1 | 106.3 | 109.4 | 112.6 | 115.7 | 119.7 | 122.8 | 167.9 |
| (98638. N/R2) | 500 | 109.5 | 109.8 | 109.5 | 107.8 | 107.6 | 106.8 | 106.9 | 110.0 | 114.3 | 115.4 | 119.6 | 121.7 | 167.7 |
| TAMB 83. DEG F | 630 | 108.5 | 109.3 | 109.8 | 110.1 | 110.4 | 108.3 | 108.6 | 110.6 | 114.5 | 116.4 | 120.1 | 120.2 | 167.8 |
| (301. DEG K) | 800 | 106.3 | 107.8 | 108.6 | 108.9 | 110.5 | 109.6 | 109.7 | 111.4 | 113.9 | 115.7 | 118.9 | 118.6 | 167.0 |
| TWET 72. DEG F | 1000 | 105.2 | 107.2 | 108.3 | 109.5 | 109.6 | 110.7 | 110.4 | 112.0 | 114.3 | 115.6 | 118.1 | 117.5 | 166.8 |
| (296. DEG K) | 1250 | 104.6 | 106.9 | 108.5 | 109.0 | 110.8 | 110.9 | 112.0 | 112.5 | 114.7 | 115.8 | 117.0 | 116.6 | 166.5 |
| HACT16.80 GM/M3 | 1600 | 103.8 | 105.6 | 107.7 | 109.4 | 111.2 | 111.1 | 112.7 | 112.9 | 114.4 | 115.5 | 116.0 | 115.1 | 166.3 |
| (.01680 KG/M3) | 2000 | 102.1 | 105.7 | 107.6 | 109.3 | 111.9 | 110.7 | 112.4 | 113.3 | 114.6 | 115.0 | 114.4 | 114.2 | 165.3 |
| FREQ. SHIFT | 2500 | 100.6 | 104.6 | 106.5 | 108.7 | 111.2 | 110.6 | 112.5 | 112.3 | 113.0 | 112.9 | 113.1 | 112.4 | 164.8 |
| JET 7 | 3150 | 100.2 | 103.5 | 105.1 | 108.1 | 110.9 | 110.5 | 112.4 | 112.4 | 110.9 | 112.1 | 111.4 | 112.0 | 163.3 |
| DIAMETER RATIO | 4000 | 97.3 | 101.4 | 103.7 | 105.6 | 109.9 | 109.0 | 111.1 | 108.7 | 110.2 | 109.3 | 109.1 | 109.6 | 161.5 |
| DF/DOM 4.78 | 5000 | 95.9 | 99.6 | 101.0 | 104.1 | 106.8 | 106.3 | 107.0 | 107.4 | 109.5 | 107.1 | 109.7 | 106.6 | 161.9 |
| OVERALL CALCULATED | 6300 | 94.7 | 99.0 | 101.8 | 104.3 | 106.8 | 106.1 | 107.7 | 107.1 | 108.1 | 106.9 | 108.4 | 109.1 | 161.4 |
| | 8000 | 91.8 | 96.3 | 100.7 | 102.5 | 104.1 | 103.8 | 106.1 | 105.2 | 106.4 | 107.5 | 107.8 | 108.5 | 159.9 |
| | 10000 | 87.6 | 93.0 | 98.6 | 99.7 | 99.8 | 100.4 | 101.7 | 101.9 | 104.4 | 105.3 | 107.0 | 104.8 | 161.0 |
| | 12500 | 85.0 | 89.7 | 96.7 | 97.7 | 98.0 | 98.9 | 99.0 | 101.0 | 103.0 | 106.0 | 107.8 | 102.6 | 166.0 |
| | 16000 | 84.9 | 90.4 | 98.2 | 98.6 | 99.1 | 99.5 | 101.4 | 101.3 | 104.7 | 109.2 | 110.3 | 103.0 | 180.3 |
| | PND8 | 126.3 | 128.9 | 130.4 | 132.1 | 134.3 | 134.0 | 135.6 | 135.6 | 137.3 | 138.2 | 140.0 | 140.9 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **4** TEST POINT **484** ACUSTIC RANGE **45.7m(150ft.)** ARC **FULL-33m²(513in²)** SIZE

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 59.7 | 64.6 | 67.2 | 68.2 | 70.0 | 71.2 | 74.0 | 75.7 | 76.9 | 80.2 | 86.0 | 86.2 | 84.3 |
| 63 | 61.8 | 66.7 | 69.5 | 73.0 | 74.0 | 74.0 | 74.8 | 76.5 | 78.2 | 83.2 | 88.1 | 89.0 | 85.8 |
| 80 | 63.7 | 66.8 | 69.9 | 70.2 | 72.5 | 74.0 | 74.7 | 77.2 | 79.9 | 85.9 | 90.8 | 90.2 | 85.9 |
| 100 | 64.7 | 66.6 | 69.2 | 70.2 | 73.0 | 74.8 | 76.2 | 78.0 | 81.0 | 87.7 | 91.5 | 91.6 | 86.3 |
| 125 | 65.4 | 68.3 | 70.2 | 72.2 | 74.3 | 75.3 | 77.8 | 79.5 | 82.4 | 87.4 | 91.7 | 91.8 | 86.9 |
| 160 | 67.5 | 69.7 | 71.6 | 73.4 | 75.2 | 76.9 | 78.4 | 80.4 | 84.4 | 88.5 | 91.8 | 92.3 | 87.6 |
| 200 | 70.9 | 73.4 | 74.8 | 75.6 | 77.1 | 78.1 | 79.4 | 81.8 | 84.5 | 87.9 | 90.7 | 91.4 | 87.7 |
| 250 | 72.2 | 75.0 | 76.7 | 77.0 | 78.8 | 79.8 | 80.6 | 83.0 | 85.7 | 88.1 | 90.3 | 92.1 | 86.6 |
| 315 | 76.2 | 77.3 | 77.3 | 77.7 | 78.2 | 79.2 | 82.4 | 85.8 | 87.9 | 89.8 | 91.3 | 85.1 | |
| NFD (7500. RPM | 78.3 | 79.3 | 79.8 | 79.7 | 80.0 | 79.7 | 80.7 | 83.4 | 85.8 | 87.6 | 89.7 | 90.1 | 82.0 |
| AIRFLOW RATIO | 78.9 | 81.2 | 82.3 | 81.4 | 81.8 | 81.0 | 81.0 | 83.7 | 87.0 | 86.8 | 89.0 | 88.3 | 78.9 |
| WF/WM 4.78 | 77.3 | 80.1 | 82.1 | 83.2 | 84.1 | 82.1 | 82.3 | 83.7 | 86.8 | 87.2 | 88.9 | 85.9 | 76.6 |
| VEHICLE CELL41 | 74.2 | 78.0 | 80.2 | 81.5 | 83.6 | 82.9 | 82.8 | 84.0 | 85.5 | 85.8 | 86.8 | 83.0 | 72.7 |
| CONFIG NC56 | 72.0 | 76.5 | 79.1 | 81.4 | 82.0 | 83.3 | 82.8 | 83.9 | 85.1 | 84.8 | 84.9 | 80.5 | 70.5 |
| LOC C41 ANECH CH | 70.0 | 75.0 | 78.3 | 79.9 | 82.3 | 82.7 | 83.6 | 83.4 | 84.5 | 83.9 | 82.5 | 77.9 | 67.3 |
| DATE 06-14-76 | 67.3 | 72.1 | 76.1 | 79.0 | 81.6 | 81.6 | 83.1 | 82.5 | 82.0 | 82.0 | 79.5 | 73.9 | 62.0 |
| RUN CONF4HIGHFLW | 63.3 | 70.3 | 74.3 | 77.4 | 80.7 | 79.8 | 81.2 | 81.4 | 81.3 | 79.5 | 75.6 | 70.0 | 56.7 |
| TAPE X04840 | 58.4 | 66.4 | 70.7 | 74.5 | 78.0 | 77.6 | 79.2 | 78.2 | 77.2 | 74.7 | 70.9 | 63.8 | 48.7 |
| FAN TIP SPEED | 52.7 | 60.7 | 65.5 | 70.3 | 74.1 | 74.1 | 75.6 | 73.1 | 72.5 | 68.7 | 64.5 | 56.5 | 37.7 |
| FT/SEC | 41.7 | 51.9 | 58.1 | 62.4 | 68.0 | 67.5 | 69.2 | 65.5 | 64.6 | 59.8 | 53.5 | 43.5 | 20.0 |
| | 35.6 | 46.3 | 52.0 | 57.7 | 61.9 | 61.9 | 62.2 | 61.1 | 60.5 | 53.8 | 49.4 | 34.4 | 9.2 |
| | 20.6 | 34.2 | 42.8 | 48.7 | 53.2 | 53.0 | 54.1 | 51.5 | 49.0 | 42.1 | 34.3 | 19.1 | |
| | 14.0 | 26.1 | 32.7 | 36.9 | 37.5 | 37.5 | 38.9 | 35.5 | 31.9 | 25.1 | 12.7 | | |
| | 2.6 | 10.2 | 13.9 | 15.6 | 15.8 | 15.6 | 15.8 | 12.4 | 8.4 | | | | |
| 10000 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 85.4 | 88.0 | 89.8 | 90.8 | 92.4 | 92.4 | 93.1 | 94.4 | 96.6 | 98.6 | 101.3 | 101.4 | 96.2 |
| PND8 | 91.1 | 94.6 | 96.8 | 99.0 | 101.7 | 101.4 | 102.6 | 103.0 | 104.0 | 104.1 | 105.3 | 104.4 | 97.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 4 TEST POINT 484 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(513in²)

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

PROG. DATE MONTH DAY HR. 13.5
 0. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0.
 (C.7C)(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)

| FREQ. | NO EGA | RDG. NO. | 0. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PWL |
|---|---------------------|----------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|-----|
| 50 | 83 | 75.9 | 85.7 | 83.9 | 84.7 | 86.3 | 86.9 | 86.8 | 88.0 | 88.7 | 91.0 | 94.2 | 93.9 | 95.9 | 131.4 | | | | | | |
| 80 | 80 | 75.8 | 79.6 | 81.6 | 83.9 | 85.5 | 86.6 | 86.3 | 88.4 | 86.6 | 87.2 | 85.1 | 96.8 | 96.6 | 131.7 | | | | | | |
| 100 | 40. FT. | 76.4 | 79.2 | 82.2 | 81.7 | 83.0 | 83.4 | 83.4 | 85.5 | 87.7 | 94.0 | 96.9 | 97.9 | 99.4 | 133.2 | | | | | | |
| 160 | VEHICLE CELL 41 | 79.8 | 79.5 | 80.8 | 83.3 | 84.2 | 84.8 | 85.4 | 87.8 | 91.5 | 95.9 | 99.3 | 102.8 | 103.8 | 136.2 | | | | | | |
| 200 | CONFIG NCS 8 | 79.1 | 81.5 | 82.8 | 83.1 | 84.0 | 86.1 | 88.2 | 90.1 | 93.3 | 98.4 | 103.9 | 105.0 | 104.8 | 139.2 | | | | | | |
| 250 | LOC C41 ANECH CH | 80.2 | 84.4 | 83.4 | 85.5 | 88.1 | 88.4 | 89.3 | 91.7 | 95.4 | 101.0 | 105.7 | 107.9 | 107.4 | 141.6 | | | | | | |
| 315 | DATE 06-16-76 | 82.2 | 83.7 | 86.0 | 86.2 | 87.8 | 89.0 | 90.1 | 93.5 | 97.2 | 103.3 | 108.5 | 109.2 | 108.0 | 143.3 | | | | | | |
| 400 | RUN CONF 4 VELO EPN | 83.5 | 84.5 | 85.8 | 86.8 | 88.4 | 90.0 | 91.4 | 94.1 | 98.5 | 105.6 | 110.6 | 110.5 | 108.8 | 145.0 | | | | | | |
| 500 | TAPE X4107C | 84.4 | 86.1 | 86.9 | 88.2 | 89.5 | 91.4 | 93.0 | 95.4 | 99.6 | 105.5 | 109.7 | 110.3 | 109.1 | 144.7 | | | | | | |
| 630 | BAR 29.4 HG | 85.4 | 86.9 | 88.4 | 89.4 | 91.0 | 92.4 | 93.5 | 97.2 | 101.7 | 106.0 | 108.9 | 109.6 | 108.2 | 144.5 | | | | | | |
| 800 | (99212. N/R2) | 88.2 | 89.0 | 90.5 | 90.5 | 91.9 | 93.7 | 94.6 | 98.0 | 102.2 | 105.8 | 107.5 | 107.2 | 106.5 | 143.4 | | | | | | |
| 1000 | TAPE 59. DEG F | 86.8 | 89.3 | 91.8 | 91.6 | 92.4 | 94.3 | 95.7 | 98.6 | 103.1 | 106.1 | 107.1 | 106.8 | 105.6 | 143.4 | | | | | | |
| 1250 | (288. DEG K) | 87.1 | 89.7 | 90.4 | 91.7 | 93.6 | 94.9 | 96.1 | 98.7 | 103.4 | 106.5 | 107.2 | 106.9 | 105.9 | 143.7 | | | | | | |
| 1600 | THET 58. DEG F | 87.9 | 89.7 | 91.7 | 92.0 | 93.3 | 95.2 | 96.6 | 100.3 | 104.0 | 106.0 | 107.2 | 106.7 | 105.0 | 143.7 | | | | | | |
| 2000 | (287. DEG K) | 87.8 | 89.5 | 91.6 | 92.4 | 93.9 | 95.6 | 96.7 | 100.4 | 104.8 | 105.7 | 107.4 | 106.0 | 104.3 | 143.7 | | | | | | |
| 2500 | HACT 11.74 GM/M3 | 88.5 | 90.5 | 92.8 | 92.8 | 94.9 | 95.8 | 97.4 | 101.3 | 105.1 | 106.6 | 107.8 | 106.5 | 104.5 | 144.4 | | | | | | |
| 3150 | (.01174 KG/M3) | 88.0 | 90.3 | 92.1 | 92.4 | 94.2 | 95.8 | 97.4 | 101.9 | 103.8 | 106.4 | 107.4 | 105.3 | 102.6 | 143.9 | | | | | | |
| 4000 | FREQ. SHIFT | 87.6 | 90.9 | 92.2 | 93.5 | 94.8 | 96.9 | 97.8 | 102.0 | 104.0 | 106.1 | 108.0 | 105.4 | 102.7 | 144.2 | | | | | | |
| 5000 | JET | 87.2 | 91.3 | 92.6 | 93.8 | 96.2 | 97.5 | 99.9 | 102.1 | 104.3 | 105.9 | 107.6 | 105.7 | 103.5 | 144.5 | | | | | | |
| 6300 | DIAMETER RATIO | 87.0 | 90.8 | 92.4 | 94.1 | 96.2 | 98.3 | 100.5 | 102.4 | 103.9 | 105.8 | 107.9 | 105.1 | 103.3 | 144.5 | | | | | | |
| 8000 | DF/DM 1.34 | 85.9 | 92.8 | 93.3 | 94.8 | 96.6 | 96.8 | 100.1 | 102.1 | 104.1 | 105.0 | 106.2 | 105.0 | 103.8 | 144.5 | | | | | | |
| 10000 | | 84.8 | 91.3 | 92.4 | 93.4 | 95.9 | 96.8 | 99.2 | 100.3 | 101.4 | 102.9 | 104.0 | 103.6 | 103.0 | 143.3 | | | | | | |
| 12500 | | 83.1 | 89.6 | 91.3 | 93.8 | 96.0 | 96.1 | 99.3 | 98.8 | 101.1 | 101.3 | 102.6 | 102.2 | 101.8 | 143.0 | | | | | | |
| 16000 | | 80.6 | 86.4 | 89.0 | 90.9 | 95.2 | 94.8 | 97.7 | 96.0 | 98.6 | 98.1 | 99.2 | 98.6 | 98.3 | 141.4 | | | | | | |
| 20000 | | 77.4 | 84.2 | 85.1 | 88.4 | 91.1 | 91.9 | 93.1 | 93.0 | 96.6 | 94.8 | 97.6 | 94.2 | 95.0 | 140.0 | | | | | | |
| 25000 | | 75.2 | 81.8 | 84.3 | 86.9 | 89.5 | 89.2 | 92.1 | 91.0 | 93.5 | 91.9 | 95.1 | 93.5 | 93.2 | 139.9 | | | | | | |
| 40000 | | 70.4 | 76.5 | 80.6 | 82.4 | 83.9 | 84.5 | 87.7 | 86.3 | 89.1 | 89.2 | 92.0 | 89.7 | 88.7 | 139.2 | | | | | | |
| 50000 | | 65.2 | 70.3 | 74.8 | 76.1 | 76.5 | 77.3 | 80.1 | 79.5 | 82.6 | 83.9 | 87.2 | 83.0 | 81.8 | 137.3 | | | | | | |
| 63000 | | 60.1 | 63.8 | 68.9 | 68.9 | 68.9 | 70.5 | 73.9 | 73.4 | 76.6 | 79.5 | 81.8 | 75.6 | 75.6 | 137.8 | | | | | | |
| 80000 | | 56.4 | 59.3 | 65.6 | 63.5 | 63.0 | 64.9 | 71.5 | 67.0 | 70.9 | 74.9 | 78.2 | 72.6 | 72.6 | 142.9 | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | | | |
| PWB8 99.2 102.6 104.0 105.2 107.1 108.3 110.2 112.6 115.6 118.1 120.6 120.1 118.9 | | | | | | | | | | | | | | | | | | | | | |
| 112.0 114.5 116.2 116.8 118.6 119.9 121.6 125.0 128.1 130.5 132.4 131.5 129.9 | | | | | | | | | | | | | | | | | | | | | |

REPRODUCIBILITY OF THE

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4107 ACUSTIC RANGE 12.2m(40ft.) ARC MODEL-145cm²(22.4in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PWL |
|--------------------|--|--------|--------|--------|--------|-------|
| | 40. | 50. | 60. | 70. | 80. | |
| NO 56A | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | 152.8 |
| RDG. NO. | 81.2 | 83.7 | 84.7 | 85.2 | 86.1 | 155.2 |
| RADIAL 150. FT. | 84.3 | 86.5 | 85.5 | 87.6 | 90.2 | 158.5 |
| VEHICLE (46. M) | 85.6 | 86.7 | 87.9 | 88.4 | 90.5 | 158.3 |
| CONFIG CELL41 | 86.5 | 88.3 | 89.0 | 90.3 | 91.6 | 157.0 |
| LOC C41 ANECH CH | 87.5 | 89.0 | 90.5 | 91.6 | 93.2 | 157.0 |
| DATE 06-16-76 | 90.3 | 91.1 | 92.6 | 92.6 | 94.0 | 157.0 |
| RUN CONF4VELDEPN | 88.9 | 91.4 | 93.9 | 93.7 | 94.6 | 157.0 |
| TAPE X41070 | 89.3 | 91.8 | 92.6 | 93.8 | 95.7 | 157.3 |
| BAR 29.4 HG | 90.1 | 91.8 | 93.9 | 94.1 | 95.5 | 157.3 |
| TAMB 59. DEG F | 89.9 | 92.5 | 93.7 | 94.5 | 96.1 | 157.3 |
| (288. DEG K) | 90.2 | 92.5 | 94.3 | 94.6 | 96.4 | 158.0 |
| THWT 58. DEG F | 89.5 | 93.2 | 94.5 | 95.7 | 97.1 | 157.7 |
| (287. DEG K) | 89.5 | 93.3 | 94.9 | 96.6 | 98.7 | 158.1 |
| HACT11-74 GM/M3 | 88.6 | 95.5 | 96.1 | 97.6 | 99.4 | 158.3 |
| (.01174 KG/M3) | 87.9 | 94.4 | 95.5 | 97.5 | 99.0 | 158.1 |
| FREQ. SHIFT | 86.8 | 93.3 | 95.0 | 97.4 | 99.7 | 156.9 |
| JET | 84.9 | 90.7 | 93.4 | 95.2 | 99.5 | 155.0 |
| DIAMETER RATIO | 83.0 | 89.8 | 90.7 | 94.0 | 96.8 | 153.5 |
| DF/DM 4.78 | 82.4 | 89.0 | 91.5 | 94.2 | 96.7 | 153.5 |
| OVERALL CALCULATED | 79.9 | 86.0 | 90.1 | 91.9 | 93.5 | 152.8 |
| | 77.8 | 82.9 | 87.4 | 88.7 | 89.0 | 150.9 |
| | 77.1 | 80.9 | 86.0 | 85.9 | 87.6 | 151.4 |
| | 79.8 | 82.6 | 89.0 | 86.9 | 88.2 | 150.5 |
| | 101.6 | 105.2 | 106.8 | 108.1 | 110.0 | 121.0 |
| | 112.6 | 117.7 | 119.4 | 121.2 | 123.3 | 131.0 |
| | 123.3 | 123.9 | 126.4 | 127.2 | 129.9 | 132.0 |
| | 129.9 | 131.1 | 132.8 | 132.0 | 131.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4107 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RPM) | NFK
(0. RAD/SEC) | NFD
(7500. RPM) | AIRFLOW RATIO
(785. RAD/SEC) | VEHICLE
CONFIG | LOC
DATE | RUN
TAPE | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | REL. HUM. DAY | |
|--------------------|----------------------------------|------------------|----------------------|---------------------|----------------------------------|-------------------|-------------|-------------|-------------------------|---|------|------|---------------|------|
| | | | | | | | | | | 40. | 50. | 60. | | |
| 50 | 53.0 | 57.1 | 59.4 | 60.4 | 61.7 | 63.9 | 65.9 | 67.4 | 69.9 | 73.9 | 77.8 | 76.7 | 73.0 | 160. |
| 63 | 54.0 | 59.9 | 60.0 | 62.7 | 65.8 | 66.3 | 67.0 | 67.7 | 70.7 | 73.7 | 78.7 | 82.3 | 80.6 | 75.5 |
| 100 | 57.2 | 59.8 | 62.2 | 64.0 | 66.0 | 67.7 | 69.0 | 71.2 | 74.9 | 80.9 | 84.2 | 81.8 | 76.5 | 76.6 |
| 125 | 57.9 | 61.3 | 63.2 | 65.2 | 67.0 | 69.9 | 70.9 | 74.1 | 77.8 | 81.0 | 82.3 | 80.6 | 75.3 | 160. |
| 160 | 58.7 | 61.9 | 64.6 | 66.4 | 68.4 | 69.9 | 70.9 | 74.1 | 77.8 | 81.0 | 82.3 | 80.6 | 75.3 | 160. |
| 200 | 61.4 | 63.8 | 66.5 | 67.3 | 69.1 | 71.1 | 71.9 | 74.8 | 78.3 | 80.7 | 80.7 | 77.9 | 73.2 | 160. |
| 250 | 59.7 | 64.0 | 67.7 | 68.2 | 69.5 | 71.5 | 72.8 | 75.2 | 78.9 | 80.8 | 80.0 | 77.1 | 71.8 | 160. |
| 315 | 59.7 | 64.0 | 68.1 | 70.4 | 71.9 | 72.9 | 75.1 | 79.0 | 80.9 | 79.8 | 76.8 | 71.5 | 71.5 | 160. |
| 400 | 60.1 | 63.7 | 67.0 | 68.1 | 69.9 | 72.0 | 73.2 | 76.4 | 79.3 | 80.1 | 79.4 | 76.0 | 69.7 | 160. |
| 500 | 59.4 | 63.9 | 66.5 | 68.2 | 70.2 | 72.0 | 73.0 | 76.2 | 79.8 | 79.3 | 79.0 | 74.7 | 68.1 | 160. |
| 630 | 59.5 | 63.6 | 67.3 | 68.2 | 70.2 | 71.8 | 73.3 | 76.7 | 79.5 | 79.7 | 78.8 | 74.3 | 67.0 | 160. |
| 800 | 58.1 | 62.7 | 65.9 | 67.2 | 69.5 | 71.3 | 72.8 | 76.7 | 77.7 | 78.8 | 77.5 | 72.0 | 63.4 | 160. |
| 1000 | 56.7 | 62.4 | 65.3 | 67.6 | 69.5 | 71.8 | 72.5 | 76.1 | 77.0 | 77.5 | 77.1 | 70.7 | 61.4 | 160. |
| 1250 | 55.0 | 61.7 | 64.7 | 67.1 | 70.1 | 71.6 | 73.8 | 75.3 | 76.5 | 76.3 | 75.4 | 69.4 | 59.8 | 160. |
| 1600 | 53.0 | 59.8 | 63.3 | 66.3 | 69.0 | 71.4 | 73.3 | 74.5 | 74.8 | 74.7 | 73.9 | 66.3 | 56.0 | 160. |
| 2000 | 49.8 | 60.0 | 62.8 | 65.6 | 68.2 | 68.6 | 71.7 | 72.9 | 73.5 | 72.3 | 70.1 | 63.5 | 52.2 | 160. |
| 2500 | 45.7 | 56.1 | 59.8 | 63.3 | 65.7 | 66.9 | 69.0 | 69.2 | 68.8 | 67.7 | 64.9 | 58.1 | 45.4 | 160. |
| 3150 | 39.2 | 50.5 | 55.3 | 59.6 | 62.9 | 63.4 | 66.2 | 64.7 | 65.0 | 62.2 | 58.5 | 50.3 | 33.8 | 160. |
| 4000 | 29.3 | 41.3 | 47.8 | 52.0 | 57.6 | 60.1 | 57.1 | 57.3 | 53.0 | 47.9 | 42.9 | 27.7 | 5.2 | 160. |
| 5000 | 22.7 | 36.5 | 41.7 | 47.7 | 51.9 | 53.1 | 53.9 | 52.3 | 53.2 | 47.1 | 42.9 | 27.7 | 5.2 | 160. |
| 6300 | 8.4 | 24.2 | 32.4 | 38.6 | 43.0 | 43.3 | 45.7 | 42.6 | 41.7 | 34.3 | 28.2 | 10.7 | 6.4 | 160. |
| 8000 | | 3.6 | 15.6 | 22.2 | 26.3 | 27.7 | 30.1 | 26.1 | 26.1 | 16.4 | 6.4 | | | 160. |
| 10000 | | | | | 3.1 | 5.1 | 6.7 | | | | | | | 160. |
| 12500 | | | | | | | | | | | | | | 160. |
| 16000 | | | | | | | | | | | | | | 160. |
| OVERALL CALCULATED | 70.2 | 74.5 | 77.4 | 79.1 | 81.3 | 82.9 | 84.4 | 86.9 | 89.5 | 91.4 | 92.3 | 89.8 | 84.7 | 160. |
| PNDB | 75.0 | 81.7 | 84.9 | 87.4 | 90.1 | 91.4 | 93.4 | 94.9 | 96.4 | 96.8 | 96.3 | 92.2 | 85.3 | 160. |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4107 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m(1.31in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH. 9 DAY 7 HR. 13.5
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANHS)

| FREQ. | 4C. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. | O. | C. | C. | (C.) |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| 50 | (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) | (C.) | (C.) | (C.) | (C.) | (C.) |
| NO EGA | | | | | | | | | | | | | | | | | | |
| RDG. NO. | 63 | | | | | | | | | | | | | | | | | |
| RADIAL | 0. | | | | | | | | | | | | | | | | | |
| VEHICLE | 80 | | | | | | | | | | | | | | | | | |
| CONFIG | 100 | | | | | | | | | | | | | | | | | |
| LOC | 125 | | | | | | | | | | | | | | | | | |
| DATE | 160 | | | | | | | | | | | | | | | | | |
| RUN | 200 | | | | | | | | | | | | | | | | | |
| TAPE | 250 | | | | | | | | | | | | | | | | | |
| BAR | 315 | | | | | | | | | | | | | | | | | |
| (G5410. M/M2) | 400 | | | | | | | | | | | | | | | | | |
| IAMB | 500 | | | | | | | | | | | | | | | | | |
| (285. DEG K) | 630 | | | | | | | | | | | | | | | | | |
| TWET | 800 | | | | | | | | | | | | | | | | | |
| (284. DEG K) | 1000 | | | | | | | | | | | | | | | | | |
| HACT | 1250 | | | | | | | | | | | | | | | | | |
| (.00966 KG/M3) | 1600 | | | | | | | | | | | | | | | | | |
| REQ. SHIFT | 2000 | | | | | | | | | | | | | | | | | |
| JET | 2500 | | | | | | | | | | | | | | | | | |
| DIAMETER RATIO | 3150 | | | | | | | | | | | | | | | | | |
| DF/DM | 4000 | | | | | | | | | | | | | | | | | |
| | 5000 | | | | | | | | | | | | | | | | | |
| | 6300 | | | | | | | | | | | | | | | | | |
| | 8000 | | | | | | | | | | | | | | | | | |
| | 10000 | | | | | | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | | | | | |
| | 20000 | | | | | | | | | | | | | | | | | |
| | 25000 | | | | | | | | | | | | | | | | | |
| | 31500 | | | | | | | | | | | | | | | | | |
| | 40000 | | | | | | | | | | | | | | | | | |
| | 50000 | | | | | | | | | | | | | | | | | |
| | 63000 | | | | | | | | | | | | | | | | | |
| | 80000 | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | |
| PNDB | 58.7 | 102.2 | 103.8 | 105.0 | 107.1 | 108.3 | 110.3 | 112.7 | 115.5 | 117.7 | 119.1 | 117.9 | | | | | | |
| | 111.3 | 114.1 | 115.8 | 116.7 | 118.5 | 119.9 | 121.6 | 124.9 | 126.0 | 130.1 | 131.1 | 131.0 | 129.4 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4108 ACOUSTIC RANGE 12.2m(40ft.) ARC
 SIZE MODEL-145cm²(22.4in²)

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| (12. #) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.96) | (3.14) | (3.31) | (0.) |
| 100 | 76.9 | 86.7 | 86.2 | 85.5 | 87.5 | 87.2 | 87.1 | 87.2 | 87.5 | 88.5 | 86.9 | 91.2 | 94.9 | 94.1 | 96.9 |
| 125 | 76.1 | 80.6 | 81.9 | 83.9 | 86.2 | 87.1 | 87.2 | 87.2 | 88.7 | 88.7 | 87.4 | 87.4 | 87.4 | 95.1 | 96.6 |
| 160 | 79.3 | 79.4 | 82.7 | 82.2 | 83.8 | 83.9 | 84.3 | 85.7 | 85.7 | 85.7 | 87.4 | 93.2 | 97.2 | 98.4 | 99.9 |
| 200 | 78.8 | 81.3 | 83.1 | 84.4 | 84.8 | 86.2 | 86.5 | 88.6 | 88.6 | 88.6 | 91.3 | 95.4 | 99.1 | 102.6 | 103.8 |
| 250 | 78.8 | 81.8 | 83.1 | 85.1 | 84.7 | 86.1 | 86.5 | 89.4 | 89.4 | 89.4 | 92.3 | 97.4 | 102.3 | 105.0 | 105.8 |
| 315 | 80.4 | 84.4 | 85.2 | 88.1 | 88.9 | 89.6 | 89.6 | 91.5 | 91.5 | 91.5 | 95.2 | 99.5 | 105.2 | 107.6 | 107.9 |
| 400 | 82.2 | 83.7 | 86.0 | 86.0 | 87.8 | 89.2 | 90.6 | 93.0 | 93.0 | 93.0 | 96.7 | 102.3 | 107.7 | 108.9 | 108.0 |
| 500 | 83.0 | 84.0 | 85.5 | 86.8 | 88.7 | 90.3 | 91.4 | 93.8 | 93.8 | 93.8 | 97.3 | 103.1 | 108.1 | 109.3 | 108.5 |
| 630 | 84.6 | 86.1 | 86.4 | 87.9 | 90.0 | 91.1 | 91.0 | 94.9 | 94.9 | 94.9 | 98.9 | 103.2 | 107.4 | 108.6 | 107.4 |
| 800 | 85.6 | 87.4 | 88.2 | 89.5 | 91.3 | 92.4 | 92.4 | 94.0 | 94.0 | 94.0 | 96.5 | 100.7 | 105.2 | 107.4 | 106.4 |
| 1000 | 87.0 | 89.0 | 90.0 | 90.8 | 92.4 | 93.5 | 94.9 | 97.8 | 97.8 | 97.8 | 101.0 | 105.6 | 106.3 | 105.5 | 105.0 |
| 1250 | 87.3 | 89.3 | 91.1 | 91.4 | 93.2 | 94.1 | 95.5 | 98.6 | 98.6 | 98.6 | 102.8 | 105.7 | 106.1 | 105.8 | 104.6 |
| 1600 | 87.6 | 90.2 | 90.9 | 91.7 | 94.1 | 95.2 | 96.3 | 99.0 | 99.0 | 99.0 | 103.4 | 105.8 | 106.5 | 106.6 | 105.4 |
| 2000 | 88.7 | 90.2 | 91.0 | 92.0 | 94.1 | 95.0 | 97.4 | 99.8 | 99.8 | 99.8 | 103.7 | 105.8 | 107.0 | 107.2 | 105.0 |
| 2500 | 89.0 | 91.3 | 91.9 | 92.1 | 94.5 | 95.3 | 97.5 | 100.6 | 100.6 | 100.6 | 105.1 | 105.7 | 106.6 | 107.6 | 105.6 |
| 3150 | 88.8 | 90.8 | 92.8 | 93.1 | 95.4 | 95.8 | 98.2 | 101.1 | 101.1 | 101.1 | 104.8 | 106.7 | 107.6 | 107.5 | 106.8 |
| 4000 | 89.0 | 90.8 | 91.9 | 92.9 | 94.7 | 96.1 | 98.2 | 101.9 | 101.9 | 101.9 | 104.9 | 106.0 | 106.9 | 107.6 | 106.1 |
| 5000 | 88.7 | 91.2 | 92.8 | 93.8 | 95.4 | 96.7 | 98.6 | 101.5 | 101.5 | 101.5 | 103.9 | 107.0 | 107.7 | 107.0 | 107.0 |
| 6300 | 88.5 | 91.0 | 92.8 | 94.1 | 96.2 | 97.5 | 99.9 | 102.3 | 102.3 | 102.3 | 104.8 | 105.4 | 106.1 | 107.0 | 106.8 |
| 8000 | 88.2 | 90.6 | 92.6 | 94.4 | 96.2 | 97.8 | 100.5 | 102.1 | 102.1 | 102.1 | 104.4 | 106.0 | 105.7 | 106.1 | 105.0 |
| 10000 | 87.1 | 92.5 | 94.5 | 95.6 | 97.4 | 96.7 | 99.6 | 102.1 | 102.1 | 102.1 | 104.1 | 105.0 | 104.6 | 106.2 | 105.5 |
| 12500 | 85.2 | 90.7 | 93.1 | 94.8 | 96.1 | 96.5 | 99.6 | 100.5 | 100.5 | 100.5 | 102.6 | 102.6 | 103.2 | 104.3 | 103.5 |
| 16000 | 83.8 | 89.3 | 91.7 | 94.4 | 96.3 | 96.3 | 98.9 | 99.2 | 102.2 | 101.7 | 101.5 | 103.1 | 102.3 | 102.3 | 102.3 |
| 20000 | 80.9 | 85.4 | 89.0 | 91.2 | 95.0 | 94.0 | 97.2 | 96.0 | 99.3 | 98.6 | 95.7 | 99.4 | 99.6 | 99.6 | 99.6 |
| 25000 | 78.7 | 83.4 | 86.5 | 88.3 | 90.8 | 90.5 | 92.6 | 90.5 | 93.2 | 90.5 | 93.1 | 97.0 | 94.8 | 95.7 | 95.7 |
| 31500 | 77.1 | 81.8 | 85.9 | 86.9 | 88.9 | 88.9 | 91.1 | 90.5 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 |
| 40000 | 73.8 | 79.0 | 84.3 | 84.2 | 84.8 | 84.8 | 87.3 | 85.4 | 89.8 | 89.8 | 90.1 | 90.7 | 90.7 | 89.8 | 89.8 |
| 50000 | 68.5 | 75.0 | 80.4 | 80.5 | 79.6 | 80.5 | 81.2 | 78.2 | 83.9 | 84.5 | 84.5 | 84.5 | 84.5 | 82.7 | 82.7 |
| 63000 | 62.5 | 69.3 | 77.1 | 76.1 | 76.1 | 77.9 | 77.9 | 71.4 | 78.6 | 81.8 | 82.2 | 77.5 | 76.6 | 76.6 | 76.6 |
| 80000 | 53.6 | 62.0 | 72.9 | 72.5 | 72.7 | 75.1 | 76.7 | 65.1 | 75.0 | 78.8 | 79.0 | 71.5 | 73.1 | 73.1 | 73.1 |
| OVERALL MEASURED | 99.8 | 102.7 | 104.3 | 105.5 | 107.5 | 108.1 | 110.4 | 112.5 | 115.7 | 117.6 | 119.3 | 120.0 | 119.3 | 119.3 | 119.3 |
| OVERALL CALCULATED | PHDB 112.6 | 114.8 | 116.3 | 117.0 | 119.1 | 119.9 | 121.9 | 124.9 | 128.1 | 130.2 | 131.6 | 132.1 | 131.3 | 131.3 | 131.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4/110 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-145cm²(22.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 27 HR. 12-2

| RDG. NO. | NO EGA | RADIAL 150. FT. | VEHICLE CONFIG | FULL SCALE DATA REDUCTION PROGRAM | | | | | | | | | | | | PWL | | | | |
|--------------------|--------|-----------------|----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| | | | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | | | | |
| | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | | |
| | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | | |
| FREQ. | | | | (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) | (2.97) | (3.14) | | |
| 50 | 63 | 80.9 | 83.9 | 85.2 | 85.2 | 85.2 | 86.8 | 88.2 | 90.6 | 92.5 | 94.4 | 96.2 | 98.0 | 100.0 | 102.0 | 104.0 | 106.0 | 108.0 | | |
| 80 | 84.3 | 85.8 | 88.1 | 90.0 | 91.3 | 92.7 | 95.1 | 98.8 | 104.4 | 109.9 | 111.0 | 110.1 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | |
| 100 | 85.1 | 86.2 | 87.7 | 88.9 | 90.8 | 92.4 | 93.5 | 95.1 | 97.0 | 101.0 | 105.3 | 109.5 | 113.7 | 109.5 | 108.5 | 108.5 | 108.5 | 108.5 | 108.5 | |
| 125 | 86.7 | 88.3 | 88.5 | 90.0 | 92.1 | 93.4 | 94.5 | 96.2 | 98.6 | 102.8 | 107.4 | 109.3 | 109.5 | 108.5 | 108.5 | 108.5 | 108.5 | 108.5 | 108.5 | |
| 160 | 87.8 | 89.5 | 90.3 | 91.6 | 93.4 | 94.5 | 95.6 | 97.0 | 99.9 | 103.1 | 107.7 | 108.4 | 107.6 | 107.1 | 106.7 | 106.7 | 106.7 | 106.7 | 106.7 | |
| 200 | 89.1 | 91.1 | 92.1 | 92.9 | 94.5 | 95.6 | 96.2 | 97.6 | 100.7 | 105.0 | 107.8 | 108.2 | 107.9 | 106.7 | 106.7 | 106.7 | 106.7 | 106.7 | 106.7 | |
| 250 | 89.4 | 91.5 | 93.2 | 93.5 | 95.3 | 96.2 | 97.3 | 98.5 | 101.1 | 105.6 | 107.9 | 108.6 | 108.8 | 107.6 | 107.6 | 107.6 | 107.6 | 107.6 | 107.6 | |
| 315 | 89.8 | 92.3 | 93.1 | 93.9 | 96.2 | 97.3 | 98.5 | 101.1 | 105.9 | 108.0 | 109.2 | 109.3 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | |
| 400 | 90.8 | 92.4 | 93.1 | 94.2 | 96.3 | 97.1 | 99.5 | 101.9 | 105.9 | 108.0 | 109.2 | 109.3 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | |
| 500 | 91.2 | 93.5 | 94.0 | 94.3 | 96.6 | 97.5 | 99.6 | 102.8 | 107.3 | 107.8 | 108.8 | 109.7 | 107.7 | 107.7 | 107.7 | 107.7 | 107.7 | 107.7 | 107.7 | |
| 630 | 91.0 | 93.0 | 95.0 | 95.3 | 97.6 | 98.0 | 100.4 | 103.3 | 107.0 | 108.9 | 109.8 | 109.7 | 109.0 | 109.0 | 109.0 | 109.0 | 109.0 | 109.0 | 109.0 | |
| 800 | 91.3 | 93.1 | 94.1 | 95.1 | 97.0 | 98.3 | 100.5 | 104.1 | 107.1 | 108.2 | 109.2 | 109.8 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | 108.3 | |
| 1000 | 90.9 | 93.5 | 95.0 | 96.0 | 97.6 | 99.0 | 100.9 | 103.8 | 106.8 | 108.1 | 109.3 | 109.9 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | 109.2 | |
| 1250 | 90.8 | 93.4 | 95.2 | 96.4 | 98.5 | 99.9 | 102.3 | 104.7 | 107.2 | 107.8 | 108.5 | 109.4 | 109.1 | 109.1 | 109.1 | 109.1 | 109.1 | 109.1 | 109.1 | |
| 1600 | 90.7 | 93.1 | 95.1 | 96.9 | 98.7 | 100.3 | 103.0 | 104.6 | 106.9 | 108.5 | 108.2 | 108.6 | 108.1 | 108.1 | 108.1 | 108.1 | 108.1 | 108.1 | 108.1 | |
| 2000 | 89.9 | 95.2 | 97.0 | 98.3 | 100.1 | 99.5 | 102.4 | 104.8 | 105.8 | 107.7 | 107.4 | 109.0 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | |
| 2500 | 88.5 | 93.8 | 96.2 | 97.9 | 99.2 | 99.6 | 102.7 | 103.5 | 105.7 | 105.9 | 106.3 | 107.3 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | |
| 3150 | 87.4 | 92.9 | 95.3 | 98.0 | 100.1 | 99.9 | 102.6 | 102.8 | 105.8 | 105.8 | 105.2 | 106.7 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | |
| 4000 | 85.3 | 89.8 | 93.4 | 95.5 | 99.3 | 98.4 | 101.5 | 100.3 | 103.6 | 102.9 | 103.0 | 103.7 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | |
| 5000 | 84.3 | 89.0 | 92.1 | 93.9 | 96.4 | 96.2 | 98.2 | 98.8 | 102.1 | 100.7 | 102.6 | 100.4 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | |
| 6300 | 83.4 | 88.6 | 93.9 | 93.7 | 94.3 | 96.8 | 94.9 | 99.4 | 99.7 | 100.3 | 100.3 | 100.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | |
| 8000 | 83.4 | 88.6 | 93.9 | 93.7 | 94.3 | 96.8 | 94.9 | 99.4 | 99.7 | 100.3 | 100.3 | 100.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | |
| 10000 | 80.6 | 87.6 | 93.0 | 93.1 | 92.2 | 93.1 | 93.8 | 90.7 | 96.5 | 97.1 | 98.8 | 96.7 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | |
| 12500 | 79.6 | 86.4 | 94.1 | 93.1 | 93.2 | 94.6 | 95.0 | 88.4 | 95.6 | 98.8 | 99.2 | 94.6 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | |
| 16000 | 77.0 | 85.4 | 96.3 | 95.8 | 96.1 | 98.5 | 100.1 | 88.5 | 98.4 | 102.2 | 102.4 | 94.9 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | |
| OVERALL CALCULATED | | | | 102.3 | 105.3 | 107.7 | 108.7 | 110.6 | 111.2 | 113.5 | 115.1 | 118.4 | 120.1 | 121.6 | 122.3 | 121.5 | 121.5 | 121.5 | 121.5 | 121.5 |
| PNDB | | | | 113.4 | 117.6 | 120.0 | 121.7 | 123.7 | 123.9 | 126.3 | 127.3 | 130.4 | 131.1 | 131.8 | 132.7 | 131.9 | 131.9 | 131.9 | 131.9 | 131.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4110 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | |
|--|--------------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| 50 | 52.7 | 57.3 | 59.7 | 60.4 | 62.5 | 64.0 | 66.2 | 67.7 | 68.9 | 72.9 | 77.0 | 76.7 | 74.1 |
| 63 | 54.3 | 59.9 | 59.7 | 62.5 | 65.8 | 66.8 | 67.3 | 68.7 | 71.7 | 74.9 | 79.1 | 79.2 | 76.0 |
| 80 | 56.0 | 59.1 | 62.4 | 63.2 | 65.5 | 67.0 | 68.2 | 70.2 | 73.2 | 77.7 | 81.5 | 80.4 | 75.9 |
| 100 | 56.7 | 59.3 | 62.0 | 64.0 | 66.2 | 68.0 | 69.0 | 71.0 | 73.7 | 78.4 | 81.8 | 80.6 | 76.3 |
| NFA (0. RPM) | 58.2 | 61.3 | 62.7 | 65.0 | 67.5 | 68.8 | 70.5 | 72.0 | 75.2 | 78.4 | 81.0 | 79.8 | 74.9 |
| (0. RAD/SEC) | 59.0 | 62.4 | 64.4 | 66.4 | 68.7 | 69.9 | 71.4 | 73.4 | 76.9 | 80.3 | 80.6 | 78.3 | 73.5 |
| NFK (1. RPM) | 60.1 | 63.9 | 66.0 | 67.6 | 69.6 | 70.9 | 72.1 | 74.6 | 77.0 | 80.4 | 79.4 | 76.1 | 71.7 |
| (0. RAD/SEC) | 60.2 | 64.6 | 66.6 | 68.1 | 70.3 | 71.3 | 72.5 | 75.3 | 78.7 | 80.3 | 79.0 | 76.1 | 70.8 |
| NFD (7500. RPM) | 60.2 | 64.6 | 66.6 | 68.1 | 70.9 | 72.2 | 73.2 | 75.4 | 79.1 | 80.2 | 79.1 | 76.6 | 71.0 |
| (785. RAD/SEC) | 60.8 | 64.2 | 66.3 | 68.2 | 70.7 | 71.7 | 74.0 | 75.9 | 79.0 | 79.8 | 79.2 | 76.5 | 69.7 |
| AIRFLOW RATIO | 60.7 | 64.9 | 66.8 | 67.9 | 70.8 | 71.8 | 73.8 | 76.4 | 80.0 | 79.3 | 78.3 | 76.2 | 69.4 |
| WF/WH 4.78 | 59.7 | 63.9 | 67.3 | 68.5 | 71.3 | 71.9 | 74.1 | 76.5 | 79.3 | 79.7 | 78.6 | 75.4 | 69.3 |
| VEHICLE CELL41 | 59.2 | 63.2 | 65.7 | 67.7 | 70.1 | 71.6 | 73.6 | 76.7 | 78.7 | 78.3 | 77.0 | 74.3 | 66.9 |
| CONFIG NC56 | 57.7 | 62.7 | 65.8 | 67.9 | 70.0 | 71.6 | 73.3 | 75.6 | 77.6 | 77.3 | 76.1 | 73.0 | 65.7 |
| LOC C41 ANECH CH | 56.3 | 61.5 | 65.0 | 67.4 | 70.1 | 71.6 | 73.8 | 75.6 | 77.0 | 75.9 | 73.9 | 70.7 | 63.0 |
| DATE 06-14-76 | 54.2 | 59.5 | 63.5 | 66.5 | 69.0 | 70.9 | 73.3 | 74.3 | 75.3 | 75.0 | 71.7 | 67.3 | 58.3 |
| RUN CONF4VELDEPN | 51.1 | 59.8 | 63.8 | 66.4 | 68.9 | 68.5 | 71.2 | 72.9 | 73.5 | 72.2 | 68.6 | 64.8 | 54.0 |
| TAPE X41100 | 46.2 | 55.6 | 60.4 | 63.7 | 65.9 | 66.5 | 69.4 | 69.4 | 69.9 | 67.6 | 64.1 | 58.8 | 45.9 |
| FAN TIP SPEED | 39.9 | 50.2 | 55.6 | 60.2 | 63.3 | 63.5 | 65.8 | 65.0 | 66.1 | 62.6 | 57.6 | 51.1 | 34.9 |
| FT/SEC | 29.6 | 40.3 | 47.8 | 52.3 | 57.4 | 56.9 | 59.6 | 57.1 | 58.1 | 53.4 | 47.4 | 37.7 | 17.4 |
| 5000 | 24.0 | 35.7 | 43.1 | 47.6 | 51.5 | 51.7 | 53.3 | 52.5 | 53.1 | 47.4 | 42.3 | 28.3 | 5.8 |
| 6300 | 10.2 | 24.2 | 34.1 | 38.6 | 43.0 | 43.1 | 44.7 | 42.1 | 41.8 | 35.4 | 26.4 | 12.9 | |
| 8000 | | 6.2 | 19.4 | 24.0 | 27.2 | 28.0 | 29.7 | 25.2 | 24.9 | 17.3 | 5.1 | | |
| 10000 | | | | 3.6 | 6.3 | 8.3 | 7.9 | 1.3 | 0.5 | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.6 | 74.8 | 77.4 | 79.2 | 81.7 | 82.9 | 84.7 | 86.8 | 89.4 | 90.7 | 91.1 | 89.2 | 84.4 |
| PNdB | 75.6 | 81.6 | 85.3 | 87.8 | 90.5 | 91.2 | 93.4 | 94.8 | 96.5 | 96.5 | 95.3 | 92.4 | 85.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4/1/0 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| RDG. NO. | NO EGA | R/DG. NO. | R/DG. FT. | ANGLES FROM INLET IN DEGREES (AND RADIANIS) | | | | | | | | | | | P= | |
|--------------------|-----------------|-----------|-----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | | 150. |
| 50 | | 82.9 | 85.7 | 87.2 | 87.5 | 88.6 | 89.9 | 92.3 | 94.5 | 95.9 | 100.5 | 107.5 | 109.9 | 110.4 | 115.3 | 155.1 |
| 63 | | 83.8 | 88.8 | 86.8 | 88.8 | 91.9 | 93.0 | 93.4 | 95.8 | 98.3 | 103.1 | 108.8 | 112.8 | 112.5 | 157.3 | 158.6 |
| 80 | | 86.3 | 87.6 | 89.6 | 89.9 | 91.5 | 92.6 | 94.0 | 96.6 | 99.6 | 104.9 | 111.4 | 113.8 | 113.1 | 159.6 | 159.6 |
| 100 | | 86.9 | 88.4 | 88.9 | 91.0 | 92.3 | 93.9 | 95.3 | 97.7 | 100.9 | 106.7 | 112.4 | 114.6 | 113.7 | 159.6 | 159.8 |
| 125 | | 88.2 | 90.0 | 90.0 | 92.1 | 93.6 | 95.0 | 96.4 | 98.8 | 102.0 | 107.1 | 112.3 | 114.7 | 113.3 | 159.8 | 159.0 |
| 160 | CELL41 | 89.5 | 91.0 | 91.3 | 93.3 | 94.7 | 95.8 | 97.4 | 100.1 | 104.0 | 108.1 | 111.8 | 114.2 | 114.0 | 159.0 | 158.6 |
| 200 | NC56 | 91.6 | 92.6 | 93.6 | 94.4 | 95.8 | 96.9 | 98.5 | 101.2 | 104.6 | 107.9 | 110.7 | 112.8 | 113.1 | 158.8 | 158.8 |
| 250 | ANECH CH | 91.7 | 93.0 | 94.2 | 95.3 | 96.1 | 97.7 | 98.8 | 102.8 | 105.5 | 108.3 | 109.5 | 111.9 | 112.2 | 158.5 | 158.7 |
| 315 | DATE 06-14-76 | 92.3 | 94.1 | 93.8 | 95.9 | 96.7 | 98.3 | 99.5 | 101.9 | 106.3 | 108.7 | 109.4 | 112.0 | 112.1 | 159.2 | 159.1 |
| 400 | CONFVELDEPN | 92.6 | 93.6 | 94.9 | 95.4 | 97.0 | 98.1 | 100.5 | 103.2 | 105.9 | 108.5 | 108.9 | 111.4 | 111.4 | 159.4 | 157.9 |
| 500 | X41120 | 92.7 | 94.5 | 95.3 | 95.8 | 97.4 | 98.5 | 100.6 | 103.8 | 107.3 | 107.9 | 109.1 | 111.5 | 111.3 | 157.4 | 155.8 |
| 630 | BAR 29.8 HG | 93.0 | 94.5 | 95.5 | 97.1 | 98.4 | 99.0 | 100.9 | 104.8 | 107.3 | 108.9 | 109.3 | 112.2 | 111.5 | 154.2 | 159.1 |
| 800 | (00755. N/M2) | 92.3 | 94.1 | 95.6 | 96.7 | 97.7 | 99.4 | 101.2 | 104.9 | 107.4 | 108.5 | 108.9 | 112.3 | 110.6 | 159.4 | 159.3 |
| 1000 | TAMB 83. DEG F | 92.4 | 94.5 | 96.0 | 97.3 | 98.6 | 100.0 | 101.9 | 105.1 | 107.0 | 107.9 | 109.3 | 112.5 | 110.2 | 157.6 | 157.9 |
| 1250 | (305. DEG K) | 91.6 | 95.9 | 97.0 | 98.5 | 99.6 | 100.9 | 103.3 | 105.5 | 107.5 | 107.3 | 110.0 | 112.2 | 109.9 | 157.9 | 157.9 |
| 1600 | TWET 76. DEG F | 92.5 | 95.6 | 97.2 | 99.2 | 100.3 | 101.1 | 103.8 | 105.4 | 107.2 | 107.8 | 110.5 | 110.9 | 108.6 | 157.9 | 157.9 |
| 2000 | (247. DEG K) | 91.9 | 97.5 | 98.3 | 99.6 | 101.1 | 100.5 | 103.4 | 105.1 | 107.6 | 107.5 | 109.9 | 110.3 | 108.0 | 157.9 | 157.9 |
| 2500 | HACT18.18 GH/M3 | 90.4 | 95.6 | 97.5 | 100.2 | 101.0 | 100.6 | 103.3 | 104.1 | 105.7 | 105.7 | 107.6 | 108.6 | 106.9 | 157.4 | 155.8 |
| 3150 | (.01818 KG/M3) | 88.7 | 94.0 | 96.4 | 99.3 | 100.9 | 101.0 | 103.4 | 102.9 | 105.6 | 104.6 | 106.2 | 107.5 | 105.5 | 154.2 | 154.2 |
| 4000 | FREQ. SHIFT | 86.6 | 91.1 | 94.7 | 97.4 | 100.9 | 99.7 | 102.6 | 100.2 | 103.2 | 102.0 | 103.6 | 105.1 | 104.7 | 153.2 | 150.5 |
| 5000 | JET 7 | 85.4 | 90.6 | 92.2 | 95.5 | 98.3 | 98.5 | 99.8 | 99.4 | 102.5 | 100.1 | 102.4 | 101.8 | 102.9 | 153.2 | 150.5 |
| 6300 | DIAMETER RATIO | 84.9 | 90.2 | 93.0 | 96.5 | 98.8 | 99.0 | 101.4 | 99.5 | 100.8 | 98.1 | 100.6 | 103.0 | 101.5 | 153.2 | 150.5 |
| 8000 | DF/DM 4.78 | 81.0 | 86.5 | 90.6 | 93.4 | 95.7 | 95.5 | 98.2 | 96.8 | 98.8 | 97.6 | 99.2 | 101.4 | 99.3 | 150.5 | 154.3 |
| 10000 | | 75.5 | 81.1 | 86.0 | 88.6 | 89.4 | 90.5 | 92.3 | 92.0 | 95.2 | 93.7 | 98.3 | 97.9 | 94.6 | 172.0 | 172.0 |
| 12500 | | 72.6 | 77.5 | 83.3 | 86.0 | 86.1 | 87.2 | 89.6 | 89.3 | 91.8 | 92.6 | 96.7 | 95.7 | 93.5 | | |
| 16000 | | 73.0 | 77.2 | 83.8 | 85.7 | 84.9 | 86.6 | 93.2 | 88.6 | 92.8 | 93.7 | 98.6 | 97.3 | 93.8 | | |
| OVERALL CALCULATED | | 103.9 | 106.8 | 108.2 | 110.0 | 111.6 | 112.1 | 114.3 | 116.1 | 118.7 | 120.2 | 122.9 | 125.2 | 124.4 | | |
| PNDB | | 114.9 | 119.0 | 120.8 | 123.1 | 124.7 | 125.1 | 127.3 | 128.0 | 130.6 | 130.7 | 133.0 | 134.5 | 133.3 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

SIZE
FULL-.33m²(513in²)

ACOUSTIC RANGE
45.7m(150ft.) ARC

CONFIGURATION TEST POINT
4 4112

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (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) | 50.7 | 59.1 | 61.7 | 62.7 | 64.2 | 65.7 | 68.0 | 69.7 | 70.4 | 73.9 | 79.3 | 79.5 | 76.6 |
| 80 | 58.0 | 60.8 | 64.0 | 65.0 | 67.0 | 68.2 | 69.5 | 71.7 | 74.0 | 78.2 | 83.0 | 83.2 | 78.9 |
| 100 | 58.4 | 61.6 | 63.2 | 66.0 | 67.8 | 69.5 | 70.8 | 72.7 | 75.2 | 79.9 | 84.0 | 83.9 | 79.3 |
| NFA (1. RPM | 59.7 | 63.1 | 64.2 | 67.0 | 69.0 | 70.5 | 71.8 | 73.7 | 76.2 | 80.2 | 83.7 | 83.8 | 78.6 |
| (0. RAD/SEC) | 60.8 | 64.0 | 65.4 | 68.2 | 69.9 | 71.2 | 72.7 | 74.9 | 78.1 | 81.0 | 83.1 | 83.1 | 79.1 |
| NFK (1. RPM | 62.6 | 65.4 | 67.5 | 69.1 | 70.9 | 72.1 | 73.6 | 75.8 | 78.5 | 80.7 | 81.7 | 81.4 | 77.7 |
| (0. RAD/SEC) | 62.5 | 65.5 | 67.9 | 69.8 | 71.1 | 72.8 | 73.8 | 77.3 | 79.2 | 80.8 | 80.3 | 80.1 | 76.3 |
| NFD (7500. RPM | 62.7 | 66.3 | 67.3 | 70.2 | 71.5 | 73.2 | 74.2 | 76.2 | 79.8 | 80.9 | 79.8 | 79.8 | 75.6 |
| (785. RAD/SEC) | 62.6 | 65.5 | 68.1 | 69.4 | 71.5 | 72.7 | 75.0 | 77.2 | 79.1 | 80.4 | 78.9 | 78.6 | 74.0 |
| AIRFLOW RATIO | 62.2 | 66.0 | 68.1 | 69.4 | 71.5 | 72.8 | 74.8 | 77.4 | 80.1 | 79.3 | 78.5 | 78.0 | 72.9 |
| WF/WH 4.78 | 61.8 | 65.4 | 67.8 | 70.2 | 72.1 | 72.9 | 74.6 | 78.0 | 79.6 | 79.8 | 78.1 | 77.9 | 71.8 |
| VEHICLE CELL41 | 60.2 | 64.2 | 67.2 | 69.2 | 70.9 | 72.6 | 74.4 | 77.5 | 79.0 | 78.6 | 76.8 | 76.8 | 69.2 |
| CONFIG NC56 | 59.2 | 63.7 | 66.9 | 69.2 | 71.1 | 72.6 | 74.3 | 76.9 | 77.9 | 77.1 | 76.1 | 75.5 | 66.8 |
| LOC C41 ANECH CH | 57.0 | 64.0 | 66.8 | 69.4 | 71.1 | 72.7 | 74.9 | 76.4 | 77.3 | 75.4 | 75.5 | 73.5 | 63.8 |
| DATE 06-14-76 | 56.0 | 62.1 | 65.6 | 68.8 | 70.6 | 71.7 | 74.1 | 75.1 | 75.6 | 74.3 | 74.0 | 69.6 | 58.8 |
| RUN CONF5VELDEPM | 53.1 | 62.1 | 65.1 | 67.7 | 70.0 | 69.6 | 72.2 | 73.2 | 74.3 | 72.0 | 71.1 | 66.1 | 53.8 |
| TAPE X41120 | 48.2 | 57.4 | 61.7 | 66.0 | 67.7 | 67.6 | 70.0 | 69.9 | 70.0 | 67.4 | 65.4 | 60.1 | 46.2 |
| FAN TIP SPEED | 41.2 | 51.2 | 56.7 | 61.5 | 64.1 | 64.6 | 66.6 | 65.1 | 66.0 | 61.9 | 58.7 | 52.0 | 34.5 |
| FT/SEC | 4000 | 31.0 | 41.7 | 49.1 | 54.1 | 59.0 | 60.7 | 57.0 | 57.6 | 52.5 | 48.0 | 39.0 | 18.3 |
| 5000 | 25.1 | 37.3 | 43.2 | 49.2 | 53.4 | 54.1 | 54.9 | 53.1 | 53.5 | 46.8 | 42.1 | 29.7 | 7.4 |
| 6300 | 10.8 | 25.4 | 34.0 | 40.9 | 45.1 | 46.0 | 47.8 | 44.0 | 41.7 | 33.3 | 26.5 | 13.1 | |
| 8000 | | 4.1 | 16.0 | 23.6 | 28.6 | 29.2 | 31.1 | 27.1 | 24.3 | 15.3 | 4.1 | | |
| 10000 | | | | | 3.5 | 5.8 | 6.4 | 2.5 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.5 | 76.4 | 78.7 | 80.9 | 82.8 | 84.0 | 85.7 | 88.0 | 90.0 | 91.2 | 92.6 | 92.6 | 88.1 |
| PND8 | 77.5 | 83.6 | 86.6 | 89.6 | 91.7 | 92.3 | 94.4 | 95.6 | 97.1 | 96.6 | 96.4 | 95.1 | 89.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 4 TEST POINT 4112 ACUSTIC RANGE FULL-33m (513in)
 SIZE 731.5m(2400ft.) SIDELINE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 27 HR. 12.2
ANGLES FROM INLET IN DEGREES (AND RADIAN) 0. 0. 0. 0. 0. 0.) (0.) (0.) (0.) (0.) (0.) (0.) (0.)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | PUL | | | | | | | |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 50. | 70. | 80. | 90. | | | | | | | | |
| 50 | 83.4 | 87.4 | 88.7 | 83.7 | 80.1 | 91.2 | 94.3 | 96.2 | 97.7 | 102.0 | 109.5 | 111.9 | 112.9 | 157.2 |
| 63 | 85.5 | 90.5 | 88.5 | 90.8 | 92.7 | 94.3 | 95.4 | 97.1 | 98.8 | 104.4 | 111.3 | 114.5 | 115.3 | 159.5 |
| 80 | 88.1 | 89.8 | 91.1 | 91.4 | 93.0 | 94.9 | 96.0 | 98.9 | 101.3 | 107.6 | 114.1 | 116.8 | 115.6 | 161.4 |
| 100 | 88.1 | 89.7 | 90.4 | 91.1 | 93.3 | 94.6 | 95.8 | 97.6 | 100.6 | 104.0 | 109.3 | 116.0 | 118.5 | 163.1 |
| 125 | 89.7 | 91.3 | 91.8 | 93.3 | 94.6 | 95.9 | 98.5 | 98.9 | 101.3 | 105.3 | 110.1 | 116.3 | 119.0 | 163.7 |
| 160 | 91.5 | 92.5 | 93.5 | 94.8 | 95.9 | 96.5 | 98.4 | 100.2 | 103.2 | 105.9 | 110.2 | 114.9 | 117.6 | 163.1 |
| 200 | 94.6 | 95.4 | 96.1 | 96.2 | 97.0 | 98.1 | 99.7 | 101.1 | 103.7 | 107.0 | 110.0 | 113.7 | 117.2 | 163.1 |
| 250 | 93.9 | 95.7 | 96.5 | 97.0 | 98.1 | 99.1 | 101.2 | 103.9 | 107.6 | 110.4 | 113.4 | 117.5 | 117.1 | 162.7 |
| 315 | 95.3 | 96.3 | 96.1 | 97.4 | 98.5 | 99.4 | 102.0 | 104.2 | 107.4 | 110.0 | 112.4 | 116.6 | 114.9 | 161.8 |
| 400 | 100.6 | 98.9 | 98.1 | 97.9 | 98.5 | 99.4 | 102.0 | 104.2 | 107.4 | 110.0 | 112.4 | 116.6 | 114.9 | 161.8 |
| 500 | 103.5 | 102.0 | 101.5 | 100.5 | 99.9 | 100.2 | 102.4 | 105.0 | 108.5 | 109.4 | 111.6 | 116.0 | 113.5 | 161.5 |
| 630 | 101.5 | 101.8 | 102.3 | 102.6 | 102.6 | 101.5 | 102.9 | 105.1 | 108.8 | 109.9 | 111.8 | 115.2 | 112.5 | 160.9 |
| 800 | 98.5 | 99.6 | 100.4 | 101.4 | 102.7 | 102.8 | 103.5 | 106.1 | 107.6 | 109.5 | 111.4 | 114.3 | 110.0 | 160.8 |
| 1000 | 97.7 | 99.2 | 100.5 | 101.8 | 101.9 | 104.4 | 104.8 | 108.3 | 108.9 | 111.8 | 113.2 | 110.0 | 110.0 | 160.7 |
| 1250 | 96.8 | 99.1 | 100.4 | 101.2 | 102.8 | 102.9 | 105.3 | 107.0 | 108.4 | 108.8 | 111.5 | 112.6 | 109.6 | 160.6 |
| 1600 | 96.2 | 98.3 | 99.7 | 101.7 | 103.0 | 103.3 | 105.2 | 107.7 | 109.2 | 108.8 | 111.0 | 111.6 | 107.2 | 160.3 |
| 2000 | 94.6 | 98.5 | 100.1 | 101.6 | 103.4 | 102.7 | 105.4 | 106.8 | 109.3 | 108.5 | 110.1 | 111.0 | 107.2 | 159.1 |
| 2500 | 92.6 | 96.8 | 98.9 | 100.9 | 102.5 | 102.6 | 105.2 | 105.8 | 107.4 | 107.5 | 107.8 | 109.1 | 106.1 | 158.6 |
| 3150 | 91.4 | 95.7 | 98.1 | 101.0 | 102.8 | 102.4 | 105.3 | 104.6 | 107.1 | 105.3 | 106.7 | 108.2 | 105.7 | 157.2 |
| 4000 | 89.5 | 93.8 | 96.6 | 99.0 | 102.6 | 101.7 | 103.1 | 102.6 | 105.2 | 102.4 | 103.8 | 105.5 | 102.4 | 155.6 |
| 5000 | 88.0 | 92.5 | 94.6 | 97.5 | 100.0 | 102.0 | 101.8 | 104.2 | 101.8 | 104.2 | 100.8 | 103.1 | 102.2 | 153.6 |
| 6300 | 86.8 | 91.8 | 94.9 | 97.7 | 99.9 | 99.9 | 102.3 | 100.9 | 102.7 | 99.5 | 101.0 | 103.7 | 98.0 | 154.6 |
| 8000 | 83.6 | 88.6 | 92.9 | 96.0 | 97.3 | 97.4 | 100.1 | 98.5 | 100.9 | 99.0 | 100.6 | 102.0 | 95.0 | 152.1 |
| 10000 | 78.9 | 84.4 | 89.3 | 93.4 | 92.2 | 93.3 | 95.1 | 94.3 | 97.0 | 95.4 | 98.3 | 98.2 | 89.9 | 151.6 |
| 12500 | 74.9 | 80.2 | 87.5 | 92.2 | 88.8 | 90.0 | 91.8 | 92.0 | 94.5 | 93.9 | 97.6 | 95.2 | 84.6 | 155.0 |
| 16000 | 73.4 | 80.5 | 88.3 | 93.8 | 88.5 | 89.9 | 92.3 | 89.9 | 95.0 | 95.1 | 97.5 | 95.8 | 85.2 | 174.6 |
| OVERALL CALCULATED 109.6 110.5 111.4 112.7 113.9 114.1 116.2 117.6 120.1 121.7 125.7 128.6 127.1 | | | | | | | | | | | | | | |
| PND8 118.8 121.5 123.2 125.2 126.8 129.2 129.7 132.1 132.4 134.4 136.4 133.9 | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
4 4113 45.7m(150ft.) ARC FULL-.33m²(513in²)

| NO EGA
SIDE LINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|-------|--|--|--|--|--|--|--|--|--|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | (D.) | | | | | | | | | |
| FREQ. | (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) | (D.) | | | | | | | | | |
| 50 | 55.2 | 60.8 | 63.2 | 63.9 | 65.7 | 67.0 | 70.0 | 71.4 | 72.2 | 75.4 | 81.3 | 81.5 | 79.1 | (D.) | | | | | | | | | |
| 63 | 57.3 | 63.9 | 63.0 | 66.0 | 68.3 | 70.0 | 71.0 | 72.2 | 74.2 | 77.7 | 83.1 | 84.0 | 81.3 | (D.) | | | | | | | | | |
| 80 | 59.7 | 63.1 | 65.4 | 66.2 | 68.5 | 69.5 | 71.2 | 73.2 | 75.7 | 80.9 | 85.8 | 86.2 | 81.4 | (D.) | | | | | | | | | |
| 100 | 59.7 | 62.8 | 64.7 | 66.5 | 68.7 | 70.5 | 71.5 | 74.0 | 76.7 | 82.2 | 86.5 | 86.4 | 81.3 | (D.) | | | | | | | | | |
| 125 | 61.2 | 64.3 | 66.0 | 68.2 | 70.0 | 71.3 | 73.0 | 75.0 | 78.2 | 82.4 | 87.5 | 87.5 | 82.1 | (D.) | | | | | | | | | |
| 160 | 62.8 | 65.4 | 67.6 | 69.6 | 71.2 | 71.9 | 74.2 | 76.1 | 79.4 | 83.0 | 87.6 | 87.8 | 82.6 | (D.) | | | | | | | | | |
| 200 | 65.6 | 68.1 | 70.0 | 70.8 | 72.1 | 73.6 | 75.4 | 77.8 | 79.8 | 82.9 | 85.9 | 86.6 | 82.2 | (D.) | | | | | | | | | |
| 250 | 64.7 | 68.2 | 70.2 | 71.5 | 73.1 | 74.8 | 76.1 | 78.3 | 80.7 | 82.6 | 84.5 | 86.9 | 81.3 | (D.) | | | | | | | | | |
| 315 | 65.7 | 68.6 | 69.6 | 71.7 | 73.2 | 74.0 | 76.0 | 78.2 | 81.1 | 82.7 | 83.8 | 85.3 | 80.5 | (D.) | | | | | | | | | |
| 400 | 70.6 | 70.8 | 71.3 | 71.9 | 73.0 | 74.0 | 76.5 | 78.2 | 80.5 | 81.9 | 82.4 | 83.8 | 77.5 | (D.) | | | | | | | | | |
| 500 | 72.9 | 73.4 | 74.3 | 74.2 | 74.0 | 74.5 | 76.5 | 78.7 | 81.3 | 80.8 | 81.0 | 82.5 | 75.1 | (D.) | | | | | | | | | |
| 630 | 70.3 | 72.6 | 74.6 | 75.7 | 76.3 | 75.4 | 76.6 | 78.2 | 81.1 | 80.7 | 80.6 | 80.9 | 72.8 | (D.) | | | | | | | | | |
| 800 | 66.4 | 69.7 | 72.0 | 74.0 | 75.8 | 76.1 | 76.6 | 78.7 | 79.2 | 79.6 | 79.3 | 78.8 | 68.9 | (D.) | | | | | | | | | |
| 1000 | 64.5 | 68.5 | 71.3 | 73.6 | 74.3 | 75.6 | 76.8 | 78.6 | 79.1 | 78.1 | 78.6 | 76.3 | 66.5 | (D.) | | | | | | | | | |
| 1250 | 62.3 | 67.2 | 70.3 | 72.1 | 74.3 | 74.7 | 76.8 | 77.9 | 78.3 | 76.9 | 76.9 | 73.9 | 63.6 | (D.) | | | | | | | | | |
| 1600 | 59.8 | 65.3 | 68.1 | 71.3 | 73.3 | 73.9 | 75.5 | 77.3 | 77.6 | 75.3 | 74.5 | 70.4 | 58.0 | (D.) | | | | | | | | | |
| 2000 | 55.8 | 63.0 | 66.8 | 69.6 | 72.2 | 71.8 | 74.2 | 74.9 | 76.0 | 73.0 | 71.3 | 66.8 | 53.0 | (D.) | | | | | | | | | |
| 2500 | 50.4 | 58.6 | 63.2 | 66.7 | 69.2 | 69.6 | 66.0 | 66.8 | 67.4 | 62.6 | 59.2 | 52.7 | 34.7 | (D.) | | | | | | | | | |
| 3150 | 43.9 | 52.9 | 58.4 | 63.2 | 66.1 | 60.2 | 63.2 | 59.4 | 59.6 | 53.0 | 48.2 | 39.5 | 15.9 | (D.) | | | | | | | | | |
| TAPE | X41130 | 44.4 | 51.1 | 55.8 | 57.1 | 55.5 | 55.1 | 47.4 | 42.8 | 30.1 | 4.8 | | | (D.) | | | | | | | | | |
| FAN TIP SPEED | FT/SEC | 5000 | 27.7 | 39.2 | 45.6 | 51.1 | 55.8 | 48.7 | 45.4 | 43.6 | 26.9 | 13.7 | | (D.) | | | | | | | | | |
| | | 6300 | 12.7 | 27.0 | 35.9 | 42.1 | 46.3 | 31.1 | 33.0 | 28.7 | 16.6 | | | (D.) | | | | | | | | | |
| | | 8000 | 6.3 | 18.4 | 26.3 | 30.2 | 31.1 | 9.2 | 4.8 | 1.0 | | | | (D.) | | | | | | | | | |
| | | 10000 | | | | | | | | | | | | (D.) | | | | | | | | | |
| | | 12500 | | | | | | | | | | | | (D.) | | | | | | | | | |
| | | 16000 | | | | | | | | | | | | (D.) | | | | | | | | | |
| OVERALL CALCULATED | | 78.3 | 80.6 | 82.4 | 83.9 | 85.3 | 85.9 | 87.6 | 89.4 | 91.3 | 93.0 | 95.9 | 96.4 | (D.) | | | | | | | | | |
| PND | | 84.3 | 87.1 | 89.3 | 91.8 | 94.0 | 94.3 | 96.3 | 97.4 | 98.6 | 98.1 | 99.2 | 99.4 | (D.) | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 4 413 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 7 HR. 13.5
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

| NO EGA | ROG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| | | (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.) |
| VEHICLE | 100 | 75.9 | 85.7 | 84.2 | 83.0 | 87.0 | 87.2 | 86.8 | 88.0 | 88.4 | 90.2 | 84.7 | 93.9 | 96.2 | 131.5 |
| CONFIG | 125 | 75.8 | 79.6 | 31.6 | 83.7 | 85.0 | 86.4 | 87.0 | 88.2 | 86.6 | 86.7 | 94.9 | 96.1 | 96.6 | 131.4 |
| LOC | 160 | 76.4 | 79.7 | 82.2 | 82.0 | 83.0 | 83.4 | 83.5 | 85.5 | 87.7 | 93.5 | 96.7 | 97.9 | 98.9 | 132.9 |
| DATE | 200 | 79.8 | 80.0 | 81.3 | 83.3 | 84.2 | 84.8 | 85.7 | 88.3 | 91.3 | 95.4 | 99.6 | 103.3 | 104.3 | 137.0 |
| RUN | 250 | 78.8 | 81.8 | 83.1 | 83.1 | 84.7 | 86.1 | 88.5 | 90.1 | 92.8 | 98.4 | 103.6 | 105.3 | 105.3 | 139.3 |
| TAPE | 315 | 80.2 | 84.2 | 83.4 | 85.2 | 87.6 | 88.4 | 89.6 | 91.5 | 95.4 | 100.5 | 105.5 | 108.1 | 107.4 | 141.6 |
| BAR | 400 | 82.2 | 83.7 | 86.0 | 86.0 | 87.3 | 89.2 | 90.1 | 93.0 | 95.2 | 102.3 | 107.0 | 108.9 | 108.0 | 142.6 |
| TARB | 500 | 82.8 | 84.0 | 85.5 | 86.3 | 87.9 | 89.5 | 90.7 | 93.8 | 95.8 | 103.9 | 108.1 | 109.7 | 108.0 | 143.5 |
| TWET | 633 | 83.6 | 85.6 | 86.4 | 87.7 | 89.0 | 90.4 | 92.3 | 95.2 | 98.9 | 104.0 | 107.4 | 109.3 | 107.9 | 143.3 |
| HACT | 800 | 84.6 | 86.4 | 87.4 | 88.7 | 90.5 | 92.4 | 93.8 | 96.7 | 100.7 | 105.2 | 106.7 | 107.4 | 105.9 | 142.7 |
| FREQ. SHIFT | 1000 | 86.7 | 88.2 | 90.2 | 90.5 | 91.6 | 93.2 | 94.4 | 97.8 | 101.2 | 105.3 | 106.0 | 105.2 | 104.2 | 142.2 |
| DIAMETER RATIO | 1250 | 86.3 | 88.3 | 90.8 | 91.1 | 91.9 | 93.8 | 94.9 | 98.1 | 102.3 | 105.6 | 105.8 | 106.0 | 103.8 | 142.6 |
| DF/DM | 1600 | 86.6 | 89.4 | 90.2 | 91.7 | 93.3 | 94.7 | 95.8 | 98.5 | 102.4 | 105.7 | 105.9 | 106.1 | 104.4 | 142.9 |
| | 2000 | 86.9 | 88.7 | 90.7 | 91.5 | 93.6 | 94.8 | 96.3 | 99.7 | 103.7 | 105.8 | 106.0 | 105.9 | 103.7 | 143.0 |
| | 2500 | 86.5 | 89.1 | 90.6 | 91.9 | 93.7 | 95.1 | 96.7 | 100.1 | 104.6 | 105.2 | 105.9 | 106.0 | 103.6 | 143.1 |
| | 3150 | 86.5 | 89.3 | 91.8 | 92.6 | 94.7 | 95.3 | 97.7 | 100.8 | 105.3 | 106.1 | 107.3 | 106.2 | 104.0 | 144.0 |
| | 4000 | 86.8 | 88.8 | 91.3 | 92.4 | 93.7 | 96.1 | 97.7 | 101.9 | 103.3 | 105.9 | 105.9 | 106.0 | 102.8 | 143.5 |
| | 5000 | 86.4 | 88.7 | 91.7 | 93.3 | 94.3 | 96.7 | 98.1 | 101.8 | 103.7 | 105.8 | 106.5 | 105.2 | 103.7 | 143.7 |
| | 6300 | 86.2 | 89.5 | 91.8 | 92.6 | 93.7 | 97.5 | 99.2 | 102.3 | 103.8 | 105.9 | 106.4 | 104.8 | 104.0 | 144.0 |
| | 8000 | 86.3 | 89.6 | 91.4 | 93.4 | 96.2 | 97.9 | 100.2 | 102.4 | 103.7 | 106.5 | 106.4 | 104.6 | 104.6 | 144.3 |
| | 10000 | 85.2 | 90.6 | 92.4 | 94.1 | 96.7 | 97.3 | 100.5 | 102.4 | 103.4 | 104.6 | 105.2 | 104.6 | 104.5 | 144.2 |
| | 12500 | 83.9 | 89.9 | 91.8 | 93.5 | 96.0 | 96.9 | 99.8 | 100.4 | 102.0 | 102.7 | 103.1 | 103.2 | 103.1 | 143.0 |
| | 16000 | 83.5 | 88.8 | 90.5 | 93.4 | 95.4 | 96.3 | 99.4 | 99.2 | 101.5 | 101.3 | 101.9 | 102.6 | 101.5 | 143.2 |
| | 20000 | 80.8 | 85.4 | 88.3 | 90.6 | 94.6 | 96.3 | 97.9 | 96.2 | 98.5 | 98.4 | 98.5 | 99.4 | 99.7 | 141.5 |
| | 25000 | 77.7 | 82.5 | 84.7 | 87.7 | 90.9 | 91.4 | 92.9 | 93.8 | 96.2 | 95.4 | 96.9 | 94.2 | 96.3 | 139.9 |
| | 31500 | 75.5 | 80.7 | 83.7 | 85.8 | 89.1 | 88.8 | 92.0 | 91.4 | 93.2 | 92.8 | 93.5 | 94.6 | 93.3 | 139.8 |
| | 40000 | 70.7 | 75.9 | 80.1 | 81.8 | 83.9 | 84.7 | 87.9 | 86.8 | 89.4 | 90.1 | 90.4 | 90.2 | 89.9 | 137.5 |
| | 50000 | 65.4 | 69.4 | 74.5 | 75.7 | 76.0 | 77.3 | 81.1 | 80.1 | 82.7 | 84.6 | 86.6 | 83.6 | 82.6 | 137.5 |
| | 63000 | 60.4 | 63.2 | 69.2 | 68.8 | 69.0 | 70.7 | 74.3 | 73.8 | 76.2 | 78.6 | 80.4 | 76.0 | 75.2 | 137.2 |
| | 80000 | 57.0 | 59.5 | 66.5 | 63.8 | 63.4 | 65.1 | 72.2 | 67.2 | 71.2 | 75.1 | 77.6 | 71.1 | 69.8 | 142.7 |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 98.3 | 101.4 | 103.3 | 104.7 | 106.8 | 108.1 | 110.2 | 112.5 | 115.3 | 117.6 | 119.0 | 119.5 | 118.3 | 156.7 |
| PND8 | | 110.8 | 113.4 | 115.5 | 116.4 | 118.4 | 119.8 | 121.5 | 124.9 | 128.0 | 130.0 | 131.4 | 131.1 | 129.3 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 4 4114 12.2m(40ft.) ARC MODEL-145cm²(22.4in²)

| RDG. NO. | MO EGA | RADIOAL 150. FT. | VEHICLE CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. SHIFT | DIAMETER RATIO | PROC. | DATE - MONTH 9 DAY 7 HR. 17.6 | | | | PWL | | | |
|--------------------|--------|------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|----------------|-------|-------------------------------|--------|--------|--------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | | (0.70) | (0.87) | (1.05) | (1.22) | | 90 | 100 | 110 |
| 50 | 80.9 | 83.9 | 85.2 | 86.8 | 88.2 | 90.6 | 92.2 | 94.9 | 97.5 | 99.9 | 103.0 | 107.5 | 108.3 | 109.5 | 108.0 | 106.2 | 105.7 | 105.1 | 105.1 | 105.1 | 105.1 | |
| 63 | 82.3 | 86.3 | 87.3 | 89.7 | 90.5 | 91.7 | 93.6 | 97.5 | 98.8 | 104.6 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 | 104.7 |
| 80 | 84.5 | 85.8 | 88.1 | 89.5 | 91.3 | 92.8 | 95.1 | 98.8 | 99.9 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 |
| 100 | 84.9 | 86.2 | 87.7 | 88.4 | 90.0 | 91.7 | 92.8 | 95.9 | 99.9 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 |
| 125 | 85.7 | 87.8 | 88.5 | 89.8 | 91.1 | 92.5 | 94.4 | 97.3 | 98.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 |
| 160 | 86.7 | 88.5 | 89.5 | 90.6 | 92.7 | 94.5 | 95.9 | 98.8 | 99.9 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 |
| 200 | 88.8 | 90.3 | 92.4 | 92.6 | 93.2 | 94.1 | 95.9 | 97.1 | 97.9 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 | 100.2 |
| 250 | 88.4 | 90.4 | 92.3 | 93.8 | 95.4 | 96.8 | 97.9 | 100.6 | 105.6 | 107.9 | 108.1 | 108.3 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 |
| 315 | 88.8 | 91.5 | 92.3 | 93.8 | 95.4 | 96.8 | 97.9 | 100.6 | 105.6 | 107.9 | 108.1 | 108.3 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 |
| 400 | 89.1 | 90.8 | 92.9 | 93.6 | 95.7 | 96.6 | 98.5 | 101.9 | 105.9 | 107.9 | 108.1 | 108.3 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 |
| 500 | 88.7 | 91.2 | 92.7 | 94.0 | 95.8 | 97.2 | 98.8 | 102.3 | 106.7 | 107.3 | 108.0 | 108.2 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 |
| 630 | 88.7 | 91.5 | 94.0 | 94.8 | 96.9 | 97.5 | 99.9 | 103.0 | 107.5 | 108.3 | 109.5 | 108.4 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 |
| 800 | 89.0 | 91.1 | 93.6 | 94.6 | 95.9 | 98.3 | 99.9 | 104.1 | 105.6 | 108.2 | 108.3 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 |
| 1000 | 88.6 | 90.9 | 94.0 | 95.5 | 96.6 | 98.9 | 100.3 | 104.0 | 106.0 | 108.1 | 108.8 | 107.4 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 |
| 1250 | 88.6 | 91.9 | 94.2 | 94.9 | 98.0 | 99.9 | 101.5 | 104.7 | 106.2 | 108.3 | 108.7 | 107.1 | 106.4 | 106.4 | 106.4 | 106.4 | 106.4 | 106.4 | 106.4 | 106.4 | 106.4 | 106.4 |
| 1600 | 89.0 | 92.1 | 93.9 | 95.9 | 98.7 | 100.4 | 102.7 | 104.9 | 106.2 | 108.6 | 109.0 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 |
| 2000 | 87.9 | 93.3 | 95.1 | 96.9 | 99.4 | 100.0 | 103.2 | 105.1 | 106.1 | 107.3 | 108.0 | 107.3 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 |
| 2500 | 86.9 | 93.0 | 94.9 | 96.6 | 99.1 | 100.0 | 103.9 | 103.5 | 105.1 | 105.8 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 |
| 3150 | 87.1 | 92.4 | 94.1 | 97.0 | 99.1 | 99.9 | 103.1 | 102.8 | 105.1 | 104.9 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 | 105.2 |
| 4000 | 85.1 | 89.7 | 92.6 | 95.0 | 99.0 | 99.0 | 102.2 | 100.5 | 102.9 | 102.7 | 102.8 | 103.7 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 |
| 5000 | 83.3 | 88.1 | 90.3 | 93.3 | 96.5 | 97.0 | 98.5 | 99.5 | 101.8 | 101.0 | 102.6 | 99.8 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 | 101.9 |
| 6300 | 82.7 | 87.9 | 90.9 | 93.0 | 96.3 | 96.0 | 98.2 | 98.6 | 100.4 | 100.0 | 100.7 | 101.8 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 |
| 8000 | 80.3 | 85.5 | 89.7 | 91.4 | 93.4 | 94.2 | 97.4 | 96.4 | 98.9 | 99.6 | 99.9 | 99.7 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| 10000 | 78.0 | 82.0 | 87.0 | 88.5 | 88.6 | 89.9 | 93.7 | 92.7 | 95.3 | 97.2 | 99.2 | 96.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 |
| 12500 | 77.4 | 80.2 | 85.2 | 85.8 | 86.1 | 87.7 | 91.3 | 90.9 | 93.2 | 95.7 | 97.4 | 93.1 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 |
| 16000 | 80.4 | 82.9 | 89.9 | 87.2 | 86.8 | 88.5 | 95.6 | 90.6 | 94.6 | 98.4 | 101.0 | 94.5 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| OVERALL CALCULATED | 100.8 | 104.0 | 106.1 | 107.5 | 109.8 | 110.9 | 113.3 | 115.2 | 117.9 | 120.0 | 121.4 | 121.7 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| PND8 | 112.3 | 116.6 | 118.6 | 120.7 | 122.9 | 123.9 | 126.5 | 127.4 | 129.9 | 130.9 | 131.8 | 131.9 | 131.0 | 131.0 | 131.0 | 131.0 | 131.0 | 131.0 | 131.0 | 131.0 | 131.0 | 131.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 4 TEST POINT 4114 ACOUSTIC RANGE 45.7m(150ft.) SIDELINE FULL-33m²(513in²) SIZE

| NO EGA
(731.52 M) | SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RPM) | NFK
(0. RPM) | NFD
(7500. RPM) | AIREFLOW RATIO
BF/WH 4.78 | VEHICLE
CONFIG | LOC
DATE 06-16-76 | RUN
CONF4VELDEPN | TAPE
X41160 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | |
|----------------------|----------------------------------|------------------|------------------|---------------------|------------------------------|-------------------|----------------------|---------------------|----------------|-------------------------|---|------|------|-----|-----|-----|------|------|------|------|------|------|------|----|--|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | |
| 50 | 52.7 | 57.3 | 59.7 | 60.4 | 62.4 | 63.9 | 66.2 | 67.4 | 69.4 | 73.9 | 77.5 | 77.0 | 73.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 63 | 54.0 | 59.6 | 60.0 | 62.5 | 65.3 | 66.3 | 67.3 | 68.7 | 72.0 | 75.9 | 79.3 | 79.7 | 75.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 80 | 56.0 | 59.1 | 62.4 | 63.2 | 65.3 | 67.0 | 67.7 | 70.2 | 73.2 | 77.7 | 80.8 | 80.4 | 75.9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 100 | 56.4 | 59.3 | 61.9 | 63.5 | 65.3 | 67.2 | 68.2 | 71.0 | 74.2 | 79.1 | 81.7 | 81.1 | 75.8 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 125 | 57.2 | 60.8 | 62.7 | 64.7 | 66.5 | 68.0 | 69.8 | 72.2 | 75.2 | 79.1 | 81.0 | 80.5 | 75.4 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 160 | 58.0 | 61.4 | 63.6 | 65.6 | 67.9 | 69.9 | 71.2 | 73.6 | 76.8 | 80.3 | 80.1 | 78.3 | 73.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 200 | 59.9 | 63.1 | 66.3 | 67.3 | 68.9 | 70.6 | 71.6 | 74.6 | 77.3 | 80.2 | 79.2 | 75.9 | 71.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 250 | 59.2 | 63.0 | 66.7 | 67.7 | 69.0 | 71.0 | 72.0 | 74.7 | 78.2 | 80.3 | 78.8 | 76.4 | 70.1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 315 | 59.1 | 62.7 | 66.0 | 67.6 | 70.2 | 71.7 | 72.7 | 74.9 | 79.0 | 80.1 | 78.5 | 76.0 | 70.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 400 | 59.1 | 62.7 | 66.0 | 67.6 | 70.2 | 71.7 | 72.7 | 74.9 | 79.0 | 80.1 | 78.5 | 76.0 | 70.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 500 | 58.2 | 62.7 | 65.5 | 67.6 | 70.0 | 71.5 | 73.0 | 75.9 | 79.0 | 79.8 | 78.1 | 75.3 | 68.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 630 | 57.5 | 62.3 | 66.3 | 67.9 | 70.5 | 71.3 | 73.5 | 76.2 | 79.8 | 79.2 | 78.3 | 74.1 | 66.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 800 | 56.9 | 61.2 | 65.2 | 67.2 | 69.1 | 71.6 | 73.1 | 76.7 | 77.2 | 78.3 | 76.0 | 72.7 | 63.6 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 1000 | 55.5 | 60.2 | 64.8 | 67.3 | 69.0 | 71.6 | 72.8 | 75.8 | 76.8 | 77.3 | 75.6 | 70.5 | 62.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 1250 | 54.0 | 60.0 | 64.0 | 65.9 | 69.6 | 71.6 | 73.1 | 75.6 | 76.4 | 76.4 | 74.2 | 68.4 | 60.3 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 1600 | 52.5 | 58.6 | 62.3 | 65.6 | 69.1 | 70.9 | 73.1 | 74.6 | 74.6 | 75.0 | 72.5 | 65.6 | 57.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 2000 | 49.1 | 57.8 | 61.9 | 65.0 | 68.3 | 69.1 | 72.0 | 73.2 | 72.9 | 71.9 | 69.2 | 63.1 | 52.8 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 2500 | 44.8 | 54.7 | 59.1 | 62.4 | 65.8 | 66.9 | 69.6 | 69.3 | 69.4 | 67.6 | 64.0 | 57.7 | 45.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 3150 | 39.6 | 49.7 | 54.4 | 59.3 | 62.3 | 63.5 | 65.1 | 65.4 | 62.2 | 58.0 | 50.7 | 34.2 | 17.6 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 4000 | 29.5 | 40.2 | 47.0 | 51.8 | 57.1 | 57.6 | 60.3 | 57.3 | 53.2 | 47.2 | 37.7 | 17.6 | 6.4 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 5000 | 23.0 | 34.8 | 41.3 | 47.0 | 51.7 | 52.6 | 53.7 | 53.1 | 52.8 | 47.7 | 42.5 | 27.7 | 6.4 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 6300 | 8.7 | 23.1 | 31.8 | 37.5 | 42.6 | 42.9 | 45.5 | 43.0 | 41.3 | 35.2 | 26.7 | 11.9 | 4.7 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 8000 | | 3.1 | 15.2 | 21.7 | 26.3 | 27.9 | 30.3 | 26.6 | 24.6 | 17.3 | 4.7 | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 10000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 69.3 | 73.5 | 76.7 | 78.7 | 81.0 | 82.7 | 84.2 | 86.7 | 89.1 | 90.7 | 90.7 | 89.1 | 83.9 | | | | | | | | | | | | |
| PNDB | 74.0 | 80.2 | 84.1 | 86.9 | 89.9 | 91.2 | 93.4 | 94.9 | 96.0 | 96.5 | 94.9 | 91.5 | 84.3 | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4114 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 27 HR. 11.9

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

ANGLES FROM INLET IN DEGREES (AND RADIAN) 140. 150. 160. 0. 0. 0. 0. 0. PHL
 (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.)

| ROG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PHL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| 100 | 78.6 | 87.2 | 84.7 | 80.2 | 88.5 | 87.9 | 88.5 | 89.5 | 89.9 | 91.7 | 94.9 | 95.1 | 98.2 | 132.8 | | | | | |
| 125 | 77.1 | 81.6 | 82.6 | 84.9 | 87.0 | 88.1 | 88.5 | 89.9 | 88.9 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | | | | | |
| 160 | 77.9 | 80.2 | 83.2 | 83.7 | 85.3 | 85.2 | 85.3 | 87.0 | 88.7 | 93.0 | 97.9 | 99.1 | 101.4 | 133.2 | | | | | |
| 200 | 80.0 | 81.3 | 81.5 | 84.3 | 85.2 | 85.8 | 85.8 | 87.2 | 89.1 | 92.3 | 95.6 | 99.8 | 105.5 | 134.4 | | | | | |
| 250 | 79.3 | 82.1 | 84.1 | 84.4 | 85.7 | 86.6 | 86.6 | 89.2 | 91.4 | 93.1 | 97.9 | 103.9 | 107.3 | 137.9 | | | | | |
| 315 | 80.9 | 84.9 | 84.2 | 85.7 | 89.4 | 89.4 | 90.6 | 92.7 | 95.4 | 100.5 | 105.7 | 109.1 | 109.7 | 140.3 | | | | | |
| 400 | 83.2 | 84.7 | 86.5 | 87.0 | 88.6 | 89.7 | 90.8 | 93.8 | 97.5 | 102.5 | 108.0 | 110.2 | 109.5 | 142.7 | | | | | |
| 500 | 83.5 | 85.0 | 86.5 | 87.1 | 89.2 | 90.8 | 92.2 | 94.6 | 98.5 | 104.1 | 108.1 | 110.3 | 109.5 | 143.8 | | | | | |
| 630 | 85.4 | 86.4 | 87.1 | 88.7 | 91.0 | 91.6 | 93.5 | 95.7 | 100.1 | 104.5 | 107.9 | 109.9 | 109.4 | 144.1 | | | | | |
| 800 | 86.4 | 88.4 | 88.7 | 90.2 | 92.3 | 92.9 | 94.5 | 97.5 | 101.7 | 106.0 | 107.7 | 108.6 | 108.9 | 144.1 | | | | | |
| 1070 | 88.2 | 89.5 | 90.2 | 91.3 | 92.9 | 94.0 | 95.6 | 98.3 | 102.2 | 106.1 | 108.5 | 106.7 | 107.2 | 143.4 | | | | | |
| 1250 | 87.8 | 89.8 | 91.6 | 92.4 | 93.5 | 94.6 | 96.7 | 99.1 | 103.8 | 106.7 | 108.9 | 107.0 | 106.6 | 143.9 | | | | | |
| 1600 | 88.6 | 90.9 | 91.2 | 92.5 | 94.6 | 95.4 | 96.8 | 99.2 | 103.9 | 106.8 | 107.0 | 106.9 | 106.9 | 144.1 | | | | | |
| 2000 | 89.2 | 90.2 | 92.0 | 92.5 | 94.6 | 95.7 | 97.9 | 100.5 | 104.7 | 106.8 | 107.3 | 106.9 | 107.5 | 144.5 | | | | | |
| 2500 | 89.5 | 91.3 | 92.4 | 92.9 | 95.0 | 95.8 | 98.0 | 101.4 | 105.6 | 106.2 | 107.1 | 107.3 | 108.1 | 144.7 | | | | | |
| 3150 | 90.3 | 91.6 | 92.6 | 93.9 | 96.2 | 96.3 | 98.7 | 101.6 | 105.6 | 106.9 | 107.6 | 108.0 | 108.6 | 145.3 | | | | | |
| 4000 | 89.8 | 91.5 | 93.1 | 93.6 | 95.7 | 95.8 | 98.7 | 102.4 | 104.9 | 107.0 | 106.7 | 108.1 | 108.1 | 145.1 | | | | | |
| 5000 | 90.4 | 93.5 | 95.0 | 95.4 | 97.0 | 97.0 | 99.1 | 102.8 | 104.8 | 105.9 | 107.0 | 108.5 | 107.7 | 145.1 | | | | | |
| 6300 | 91.0 | 96.0 | 96.8 | 95.6 | 97.2 | 98.3 | 100.7 | 102.8 | 105.3 | 105.9 | 106.6 | 108.3 | 107.3 | 145.5 | | | | | |
| 8000 | 91.2 | 96.6 | 96.9 | 97.6 | 98.5 | 98.3 | 101.0 | 102.6 | 105.4 | 106.0 | 106.2 | 107.3 | 106.1 | 145.5 | | | | | |
| 10000 | 91.4 | 98.0 | 99.1 | 99.6 | 100.4 | 98.2 | 100.1 | 102.3 | 104.6 | 105.2 | 105.4 | 107.2 | 104.5 | 145.6 | | | | | |
| 12500 | 90.5 | 96.2 | 97.9 | 100.1 | 100.1 | 99.2 | 100.4 | 101.0 | 102.6 | 103.5 | 103.7 | 104.0 | 103.2 | 144.7 | | | | | |
| 16000 | 87.5 | 93.3 | 95.2 | 98.1 | 99.9 | 99.0 | 100.7 | 99.4 | 102.4 | 101.7 | 101.8 | 103.3 | 102.0 | 144.5 | | | | | |
| 20000 | 85.2 | 90.0 | 92.3 | 94.4 | 98.5 | 96.8 | 99.5 | 97.0 | 99.3 | 98.5 | 98.7 | 99.9 | 99.6 | 142.9 | | | | | |
| 25000 | 82.4 | 87.2 | 88.8 | 92.1 | 93.8 | 93.8 | 95.3 | 94.7 | 97.0 | 95.1 | 97.2 | 95.6 | 95.7 | 141.3 | | | | | |
| 31500 | 80.8 | 84.8 | 87.5 | 89.9 | 92.5 | 92.2 | 93.9 | 92.2 | 93.7 | 92.8 | 93.0 | 95.2 | 93.0 | 141.2 | | | | | |
| 40000 | 76.6 | 79.8 | 84.1 | 86.2 | 86.8 | 88.6 | 89.5 | 87.4 | 89.6 | 89.7 | 90.0 | 90.7 | 89.1 | 140.4 | | | | | |
| 50000 | 71.0 | 74.0 | 79.7 | 80.3 | 79.1 | 84.0 | 81.7 | 80.2 | 83.2 | 83.1 | 85.0 | 83.1 | 80.8 | 138.3 | | | | | |
| 63000 | 65.8 | 68.1 | 74.9 | 75.6 | 73.4 | 80.1 | 73.7 | 73.2 | 76.1 | 77.8 | 79.7 | 75.3 | 73.4 | 138.9 | | | | | |
| 80000 | 58.4 | 63.0 | 73.0 | 72.3 | 68.5 | 77.6 | 68.8 | 65.2 | 70.3 | 72.9 | 74.0 | 69.3 | 68.2 | 144.1 | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 101.7 | 105.7 | 106.8 | 107.9 | 109.4 | 109.3 | 111.3 | 113.1 | 116.3 | 116.2 | 119.6 | 120.9 | 120.8 | 156.0 | | | | | |
| PN08 | 113.9 | 117.1 | 118.0 | 118.1 | 120.0 | 120.4 | 122.5 | 125.5 | 128.8 | 130.7 | 131.9 | 132.8 | 132.9 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 415 SIZE MODEL-145cm²(22.4in²)
 ACOUSTIC RANGE 12.2m(40ft.) ARC

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | PWL | | |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|------|------|------|------|------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | | | |
| 50 | 81.4 | 84.2 | 86.2 | 86.5 | 87.8 | 88.7 | 91.3 | 93.5 | 95.2 | 100.0 | 106.0 | 108.4 | 109.4 | 153.9 | 120. | 130. | 140. | 150. | 160. |
| 63 | 83.0 | 87.0 | 86.3 | 87.8 | 91.4 | 91.5 | 92.7 | 94.8 | 97.5 | 102.6 | 107.8 | 111.3 | 111.8 | 156.3 | 110. | 120. | 130. | 140. | 150. |
| 80 | 85.3 | 86.8 | 88.6 | 89.1 | 90.7 | 91.8 | 93.0 | 95.9 | 99.6 | 104.6 | 110.1 | 112.3 | 111.6 | 157.4 | 110. | 120. | 130. | 140. | 150. |
| 100 | 85.6 | 87.2 | 88.7 | 89.2 | 91.3 | 92.9 | 94.3 | 96.7 | 100.7 | 106.2 | 112.4 | 111.7 | 111.5 | 157.7 | 110. | 120. | 130. | 140. | 150. |
| 125 | 87.5 | 88.5 | 89.3 | 90.8 | 93.1 | 93.8 | 95.6 | 97.8 | 102.3 | 106.6 | 110.0 | 111.5 | 111.5 | 157.7 | 110. | 120. | 130. | 140. | 150. |
| 160 | 88.5 | 90.5 | 90.8 | 92.3 | 94.4 | 95.0 | 96.7 | 99.6 | 103.8 | 108.1 | 109.8 | 110.7 | 111.0 | 157.0 | 110. | 120. | 130. | 140. | 150. |
| 200 | 90.3 | 91.6 | 92.4 | 93.4 | 95.0 | 96.1 | 97.7 | 100.4 | 104.4 | 108.2 | 108.6 | 108.8 | 109.4 | 157.5 | 110. | 120. | 130. | 140. | 150. |
| 250 | 89.9 | 92.0 | 93.7 | 94.5 | 95.6 | 96.7 | 98.8 | 101.2 | 106.0 | 108.8 | 109.0 | 109.2 | 108.7 | 157.5 | 110. | 120. | 130. | 140. | 150. |
| 315 | 90.8 | 93.1 | 93.3 | 94.6 | 96.7 | 97.6 | 99.0 | 101.4 | 106.1 | 108.9 | 109.1 | 109.0 | 109.1 | 157.7 | 110. | 120. | 130. | 140. | 150. |
| 400 | 91.3 | 92.4 | 94.1 | 94.7 | 96.8 | 97.9 | 100.0 | 102.7 | 106.9 | 109.0 | 109.4 | 109.1 | 109.6 | 158.1 | 110. | 120. | 130. | 140. | 150. |
| 500 | 91.7 | 93.5 | 94.5 | 95.0 | 97.1 | 98.0 | 100.1 | 103.5 | 107.8 | 108.3 | 109.3 | 109.5 | 110.2 | 158.3 | 110. | 120. | 130. | 140. | 150. |
| 630 | 92.5 | 93.7 | 94.8 | 96.0 | 98.4 | 98.5 | 100.9 | 103.8 | 107.8 | 109.1 | 109.8 | 110.2 | 110.7 | 158.9 | 110. | 120. | 130. | 140. | 150. |
| 800 | 92.0 | 93.6 | 95.4 | 95.9 | 98.0 | 98.1 | 101.0 | 104.6 | 107.1 | 108.2 | 108.9 | 110.3 | 110.3 | 158.7 | 110. | 120. | 130. | 140. | 150. |
| 1000 | 92.7 | 95.7 | 96.5 | 97.3 | 97.6 | 99.2 | 101.4 | 105.0 | 107.0 | 108.1 | 109.3 | 110.7 | 110.0 | 159.1 | 110. | 120. | 130. | 140. | 150. |
| 1250 | 93.3 | 98.4 | 99.2 | 97.9 | 99.5 | 100.6 | 103.0 | 105.2 | 107.7 | 108.3 | 109.0 | 110.6 | 109.6 | 159.1 | 110. | 120. | 130. | 140. | 150. |
| 1600 | 93.7 | 99.1 | 99.4 | 100.1 | 101.0 | 101.0 | 100.8 | 103.5 | 105.1 | 107.9 | 108.5 | 108.7 | 109.8 | 159.1 | 110. | 120. | 130. | 140. | 150. |
| 2000 | 94.1 | 100.7 | 101.8 | 102.3 | 103.1 | 103.1 | 101.0 | 102.9 | 105.0 | 107.3 | 107.9 | 108.1 | 110.0 | 159.1 | 110. | 120. | 130. | 140. | 150. |
| 2500 | 93.6 | 99.3 | 100.9 | 103.1 | 103.2 | 102.3 | 102.3 | 103.5 | 104.0 | 105.7 | 106.6 | 106.8 | 107.1 | 158.3 | 110. | 120. | 130. | 140. | 150. |
| 3150 | 91.2 | 96.9 | 98.8 | 101.8 | 103.6 | 102.7 | 104.3 | 103.1 | 106.1 | 105.3 | 105.4 | 107.0 | 105.7 | 158.3 | 110. | 120. | 130. | 140. | 150. |
| 4000 | 89.5 | 94.3 | 96.6 | 98.8 | 102.8 | 101.1 | 103.8 | 101.3 | 103.6 | 102.7 | 103.0 | 104.2 | 103.9 | 156.5 | 110. | 120. | 130. | 140. | 150. |
| 5000 | 88.0 | 92.8 | 94.4 | 97.7 | 99.4 | 99.4 | 100.9 | 100.3 | 102.6 | 100.7 | 102.8 | 101.2 | 101.3 | 154.8 | 110. | 120. | 130. | 140. | 150. |
| 6300 | 88.0 | 92.1 | 94.7 | 97.2 | 99.7 | 99.4 | 101.1 | 99.4 | 100.9 | 100.0 | 100.2 | 102.4 | 100.2 | 154.8 | 110. | 120. | 130. | 140. | 150. |
| 8000 | 86.1 | 89.4 | 93.7 | 95.7 | 96.3 | 98.1 | 99.1 | 99.1 | 99.2 | 99.2 | 99.6 | 100.3 | 98.6 | 151.9 | 110. | 120. | 130. | 140. | 150. |
| 10000 | 83.6 | 86.6 | 92.2 | 92.9 | 91.7 | 96.6 | 94.3 | 92.8 | 95.8 | 95.7 | 97.6 | 95.7 | 93.4 | 152.5 | 110. | 120. | 130. | 140. | 150. |
| 12500 | 82.9 | 85.2 | 91.9 | 92.7 | 90.5 | 97.2 | 90.7 | 90.2 | 93.2 | 94.9 | 96.8 | 92.4 | 90.5 | 152.5 | 110. | 120. | 130. | 140. | 150. |
| 16000 | 81.8 | 86.4 | 96.4 | 95.7 | 91.9 | 101.0 | 92.2 | 88.6 | 93.7 | 96.3 | 97.4 | 92.7 | 91.5 | 157.7 | 110. | 120. | 130. | 140. | 150. |
| OVERALL CALCULATED | 104.4 | 108.4 | 110.0 | 111.2 | 112.6 | 112.8 | 114.3 | 115.8 | 118.9 | 120.6 | 121.9 | 123.1 | 122.8 | 171.5 | 110. | 120. | 130. | 140. | 150. |
| PND8 | 116.8 | 121.4 | 123.0 | 124.8 | 126.3 | 126.0 | 127.7 | 127.9 | 130.8 | 131.4 | 132.1 | 133.1 | 132.3 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4115 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| | | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--------------------|-------|--|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | FROM INLET IN DEGREES (AND RADIANS) | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | | (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) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| NO EGA | 63 | 53.2 | 57.6 | 60.7 | 61.7 | 63.5 | 64.5 | 67.0 | 68.7 | 69.7 | 73.4 | 77.8 | 78.0 | 75.6 |
| SIDELINE 2400. FT. | 80 | 54.8 | 60.4 | 60.7 | 63.0 | 67.0 | 67.3 | 68.3 | 70.0 | 72.0 | 75.9 | 79.6 | 80.7 | 77.8 |
| (731.52 M) | 100 | 57.0 | 60.1 | 62.9 | 64.2 | 66.2 | 67.5 | 68.5 | 71.0 | 73.9 | 77.9 | 81.8 | 81.7 | 77.4 |
| NFA (0. RPM) | 125 | 58.9 | 61.6 | 63.5 | 65.7 | 68.5 | 69.3 | 71.0 | 72.7 | 76.5 | 79.7 | 81.5 | 81.0 | 76.9 |
| (0. RAD/SEC) | 160 | 59.8 | 63.4 | 64.9 | 67.1 | 69.7 | 70.4 | 71.9 | 74.4 | 77.9 | 81.0 | 81.1 | 79.6 | 76.0 |
| NFK (1. RPM) | 200 | 61.4 | 64.4 | 66.3 | 68.1 | 70.1 | 71.4 | 72.9 | 75.1 | 78.3 | 80.9 | 79.7 | 77.4 | 74.0 |
| (0. RAD/SEC) | 250 | 60.7 | 64.5 | 67.4 | 69.0 | 70.5 | 71.8 | 73.8 | 75.8 | 79.7 | 81.3 | 79.8 | 77.4 | 72.8 |
| NFD (7500. RPM) | 315 | 61.2 | 65.3 | 66.8 | 68.9 | 71.4 | 72.5 | 73.7 | 75.6 | 79.6 | 81.2 | 79.6 | 76.8 | 72.5 |
| (785. RAD/SEC) | 400 | 61.3 | 64.2 | 67.3 | 68.7 | 71.2 | 72.5 | 74.5 | 76.7 | 80.0 | 80.8 | 79.4 | 76.3 | 72.2 |
| AIRFLOW RATIO | 500 | 61.2 | 64.9 | 67.3 | 68.7 | 71.3 | 72.3 | 74.3 | 77.2 | 80.5 | 79.8 | 78.8 | 76.0 | 71.9 |
| WF/WM 4.78 | 630 | 61.2 | 64.6 | 67.0 | 69.2 | 72.1 | 72.4 | 74.6 | 77.0 | 80.0 | 80.0 | 78.6 | 75.9 | 71.1 |
| VEHICLE CELL41 | 800 | 59.9 | 63.7 | 67.0 | 68.4 | 71.1 | 71.4 | 74.1 | 77.2 | 78.7 | 79.3 | 76.8 | 74.8 | 68.9 |
| CONFIG NC56 | 1000 | 59.5 | 64.9 | 67.3 | 69.1 | 70.0 | 71.8 | 73.8 | 76.9 | 77.8 | 77.3 | 76.1 | 73.8 | 66.5 |
| LOC C41 ANECH CH | 1250 | 58.8 | 66.5 | 69.0 | 68.9 | 71.1 | 72.4 | 74.6 | 76.1 | 77.5 | 76.4 | 74.4 | 71.9 | 63.5 |
| DATE 06-14-76 | 1600 | 57.2 | 65.5 | 67.8 | 69.8 | 71.3 | 71.4 | 73.8 | 74.8 | 75.3 | 75.0 | 72.2 | 68.6 | 58.8 |
| RUN CONF4VELDEPN | 2000 | 55.3 | 65.3 | 68.5 | 70.4 | 71.9 | 70.1 | 71.7 | 73.1 | 74.0 | 72.5 | 69.3 | 65.8 | 53.0 |
| TAPE X41150 | 2500 | 51.4 | 61.1 | 65.2 | 69.0 | 69.9 | 69.3 | 70.2 | 69.9 | 69.9 | 68.4 | 64.6 | 58.5 | 45.6 |
| FAN TIP SPEED | 3150 | 43.6 | 54.2 | 59.1 | 64.0 | 66.8 | 66.3 | 67.6 | 65.3 | 66.4 | 62.6 | 57.9 | 51.4 | 34.7 |
| FT/SEC | 4000 | 33.9 | 44.8 | 51.0 | 55.6 | 60.9 | 59.7 | 61.9 | 58.1 | 58.1 | 53.2 | 47.4 | 38.2 | 17.4 |
| | 5000 | 27.7 | 39.4 | 45.4 | 51.4 | 54.6 | 55.0 | 56.1 | 54.0 | 53.6 | 47.4 | 42.5 | 29.1 | 5.8 |
| | 8000 | 14.0 | 27.3 | 35.6 | 41.6 | 46.0 | 46.4 | 47.4 | 43.9 | 41.9 | 35.2 | 26.2 | 12.5 | |
| | 10000 | 7.0 | 19.1 | 26.0 | 29.2 | 31.8 | 32.0 | 27.2 | 24.7 | 24.7 | 16.8 | 4.4 | | |
| | 12500 | | 3.4 | 5.8 | 11.8 | 8.4 | | | | | | | | |
| | 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 71.7 | 76.4 | 78.9 | 80.7 | 82.8 | 83.5 | 85.3 | 87.4 | 90.1 | 91.4 | 91.4 | 90.2 | 86.2 |
| PNDB | | 77.7 | 85.2 | 88.4 | 90.9 | 92.7 | 92.7 | 94.2 | 95.4 | 97.2 | 97.0 | 95.7 | 93.0 | 87.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4115 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

| RDG. NO. | NO EGA | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | PWL | | | | | | |
|--------------------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. | | | | |
| 50 | 63 | (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.) |
| 80 | 80 | 79.4 | 85.7 | 85.7 | 87.2 | 90.0 | 88.9 | 89.3 | 89.7 | 90.2 | 91.7 | 95.7 | 96.1 | 99.4 | 133.7 | | | |
| 100 | 100 | 77.6 | 81.9 | 83.1 | 85.2 | 87.5 | 88.6 | 88.7 | 90.2 | 88.9 | 88.2 | 96.1 | 98.6 | 99.6 | 133.6 | | | |
| 125 | 125 | 78.6 | 80.4 | 84.2 | 84.2 | 85.3 | 85.3 | 85.3 | 87.0 | 88.9 | 93.7 | 98.2 | 99.9 | 102.2 | 136.5 | | | |
| 160 | 160 | 81.0 | 81.3 | 82.3 | 84.1 | 85.7 | 86.3 | 87.7 | 90.1 | 92.6 | 96.6 | 103.3 | 104.5 | 106.3 | 138.5 | | | |
| 200 | 200 | 80.3 | 82.6 | 84.6 | 84.6 | 86.0 | 87.1 | 90.0 | 91.9 | 93.6 | 98.2 | 104.4 | 107.0 | 108.1 | 140.5 | | | |
| 250 | 250 | 80.9 | 85.4 | 84.2 | 86.7 | 89.3 | 90.4 | 90.8 | 93.0 | 95.9 | 100.3 | 106.0 | 109.4 | 109.9 | 142.5 | | | |
| 315 | 315 | 83.2 | 85.0 | 87.0 | 87.5 | 88.8 | 90.2 | 91.1 | 94.0 | 97.0 | 103.0 | 108.5 | 110.4 | 110.2 | 144.2 | | | |
| 400 | 400 | 84.0 | 85.0 | 86.8 | 87.3 | 89.2 | 91.3 | 92.2 | 94.6 | 98.3 | 104.4 | 108.8 | 111.0 | 110.0 | 146.7 | | | |
| 500 | 500 | 85.1 | 86.6 | 87.6 | 88.9 | 90.8 | 92.1 | 93.8 | 95.9 | 99.9 | 104.5 | 108.9 | 110.9 | 109.9 | 146.8 | | | |
| 630 | 630 | 85.9 | 87.7 | 88.9 | 90.7 | 92.5 | 93.4 | 94.8 | 97.2 | 101.7 | 105.2 | 108.4 | 110.1 | 109.4 | 146.7 | | | |
| 800 | 800 | 88.2 | 89.5 | 90.7 | 91.3 | 92.9 | 94.0 | 95.4 | 98.5 | 101.2 | 105.6 | 107.0 | 108.0 | 108.2 | 143.7 | | | |
| 1000 | 1000 | 88.2 | 89.5 | 90.7 | 91.3 | 92.9 | 94.0 | 95.4 | 98.5 | 101.2 | 105.6 | 107.0 | 108.0 | 108.2 | 143.8 | | | |
| 1250 | 1250 | 87.8 | 89.3 | 91.3 | 91.6 | 93.7 | 94.8 | 96.0 | 99.4 | 102.8 | 105.9 | 106.6 | 107.8 | 107.5 | 143.7 | | | |
| 1600 | 1600 | 88.1 | 90.2 | 91.4 | 92.7 | 94.1 | 95.7 | 96.1 | 98.5 | 103.2 | 106.0 | 106.2 | 107.1 | 107.2 | 143.7 | | | |
| 2000 | 2000 | 88.9 | 90.2 | 91.7 | 92.3 | 94.4 | 95.7 | 97.4 | 100.3 | 103.5 | 103.8 | 105.5 | 107.2 | 106.7 | 143.8 | | | |
| 2500 | 2500 | 89.3 | 90.6 | 92.4 | 92.4 | 94.5 | 95.8 | 97.2 | 100.6 | 104.6 | 105.2 | 105.9 | 107.6 | 105.8 | 144.1 | | | |
| 3150 | 3150 | 89.8 | 91.1 | 92.8 | 93.6 | 95.7 | 96.1 | 98.2 | 101.1 | 104.3 | 106.2 | 105.6 | 107.5 | 106.1 | 143.9 | | | |
| 4000 | 4000 | 89.3 | 90.6 | 92.6 | 93.4 | 95.2 | 96.1 | 98.0 | 101.6 | 104.1 | 105.5 | 104.7 | 107.8 | 105.1 | 146.0 | | | |
| 5000 | 5000 | 89.4 | 91.5 | 93.5 | 94.3 | 96.7 | 96.7 | 98.6 | 101.5 | 103.8 | 104.9 | 104.8 | 108.2 | 105.2 | 146.2 | | | |
| 6300 | 6300 | 89.0 | 92.8 | 94.6 | 94.8 | 96.4 | 97.8 | 99.7 | 101.3 | 104.3 | 104.2 | 105.1 | 107.8 | 105.0 | 144.1 | | | |
| 8000 | 8000 | 89.0 | 92.6 | 93.9 | 96.1 | 97.5 | 97.6 | 100.0 | 101.9 | 103.6 | 104.5 | 104.7 | 106.6 | 103.1 | 144.3 | | | |
| 10000 | 10000 | 88.6 | 94.0 | 96.1 | 97.1 | 98.6 | 97.5 | 99.6 | 101.8 | 103.8 | 103.2 | 104.1 | 106.5 | 102.7 | 143.5 | | | |
| 12500 | 12500 | 86.7 | 93.2 | 95.4 | 97.3 | 98.9 | 97.7 | 99.6 | 100.0 | 102.1 | 102.5 | 102.4 | 103.5 | 101.0 | 143.1 | | | |
| 16000 | 16000 | 85.3 | 91.3 | 92.9 | 95.6 | 98.4 | 97.8 | 99.7 | 98.7 | 101.4 | 100.7 | 100.5 | 101.8 | 99.8 | 141.6 | | | |
| 20000 | 20000 | 82.9 | 87.7 | 90.8 | 92.9 | 96.7 | 95.5 | 98.2 | 95.8 | 98.6 | 97.6 | 97.9 | 99.7 | 96.6 | 140.2 | | | |
| 25000 | 25000 | 79.9 | 85.6 | 87.5 | 90.1 | 93.3 | 93.0 | 93.8 | 94.2 | 96.5 | 94.4 | 95.0 | 94.6 | 94.7 | 140.3 | | | |
| 31500 | 31500 | 77.1 | 82.8 | 86.2 | 88.7 | 92.0 | 91.2 | 92.9 | 92.0 | 93.0 | 91.0 | 92.2 | 94.7 | 90.7 | 139.0 | | | |
| 40000 | 40000 | 71.8 | 77.5 | 82.1 | 84.4 | 86.0 | 86.3 | 88.0 | 86.9 | 89.1 | 87.9 | 87.7 | 90.2 | 86.3 | 136.0 | | | |
| 50000 | 50000 | 63.5 | 69.0 | 74.4 | 76.7 | 77.1 | 78.5 | 79.5 | 78.9 | 82.1 | 81.5 | 83.5 | 82.8 | 79.5 | 135.1 | | | |
| 63000 | 63000 | 56.0 | 60.6 | 66.8 | 68.6 | 68.6 | 70.1 | 70.9 | 71.6 | 75.1 | 74.8 | 77.2 | 76.0 | 71.9 | 138.2 | | | |
| 80000 | 80000 | 49.8 | 53.5 | 60.2 | 60.5 | 60.9 | 62.3 | 66.5 | 64.4 | 68.2 | 69.5 | 71.7 | 70.0 | 65.1 | | | | |
| OVERALL MEASURED | | 100.6 | 103.6 | 105.3 | 106.6 | 108.6 | 109.8 | 110.6 | 112.5 | 115.4 | 117.4 | 119.2 | 121.2 | 120.4 | | | | |
| OVERALL CALCULATED | | 113.3 | 115.2 | 116.8 | 117.7 | 119.6 | 120.3 | 122.0 | 124.9 | 127.8 | 129.8 | 130.7 | 132.8 | 131.5 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4116 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-145cm²(22.4in²) SIZE

| RDG. NO. | NO EGA | RADIAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWT | HACT | FREQ. | PROC. DATE - MONTH 8 DAY 27 HR. 12.2 | | | | PHL | | | | | | | | | | | | | | |
|--------------------|--------|-----------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|------------------------|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | FULL SIZE SOUND PRESSURE LEVELS | SCALED FROM MODEL DATA | INLET IN DEGREES (AND RADIANS) | DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | | | |
| 50 | 82.4 | 84.7 | 86.7 | 88.1 | 89.2 | 92.1 | 94.0 | 95.7 | 100.3 | 106.5 | 109.2 | 110.2 | 120.0 | 130.0 | 140.0 | 150.0 | 154.5 | | | | | | | | | | | | | | | |
| 63 | 83.0 | 87.5 | 86.3 | 88.8 | 91.4 | 92.5 | 92.9 | 95.1 | 98.0 | 102.4 | 108.1 | 111.5 | 112.0 | 120.0 | 130.0 | 140.0 | 150.0 | 156.5 | | | | | | | | | | | | | | |
| 80 | 85.3 | 87.1 | 89.6 | 91.0 | 92.3 | 93.2 | 93.4 | 94.3 | 95.9 | 98.0 | 102.4 | 108.1 | 111.5 | 112.0 | 120.0 | 130.0 | 140.0 | 150.0 | 157.8 | | | | | | | | | | | | | |
| 100 | 86.1 | 87.2 | 88.9 | 89.4 | 91.3 | 93.4 | 93.4 | 94.3 | 95.9 | 98.0 | 102.4 | 108.1 | 111.5 | 112.0 | 120.0 | 130.0 | 140.0 | 150.0 | 158.3 | | | | | | | | | | | | | |
| 125 | 87.2 | 88.8 | 89.8 | 91.0 | 92.9 | 94.3 | 95.5 | 96.9 | 97.5 | 100.7 | 103.4 | 107.7 | 109.1 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 158.2 | | | | | | | | | | | | | |
| 160 | 88.0 | 89.8 | 91.0 | 92.8 | 93.4 | 95.0 | 96.1 | 97.5 | 98.1 | 101.5 | 105.0 | 108.0 | 108.7 | 109.9 | 109.5 | 109.5 | 109.5 | 109.5 | 157.3 | | | | | | | | | | | | | |
| 200 | 90.3 | 91.6 | 92.9 | 93.4 | 95.0 | 96.2 | 97.8 | 98.2 | 100.6 | 105.3 | 108.2 | 108.4 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 157.4 | | | | | | | | | | | | | |
| 250 | 89.9 | 91.5 | 93.5 | 93.7 | 95.8 | 97.0 | 98.1 | 98.5 | 100.6 | 105.3 | 108.2 | 108.4 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 157.3 | | | | | | | | | | | | | |
| 315 | 90.3 | 92.3 | 92.6 | 94.9 | 96.2 | 97.8 | 98.2 | 99.5 | 102.4 | 105.6 | 108.0 | 107.7 | 109.3 | 108.9 | 108.9 | 108.9 | 108.9 | 108.9 | 157.4 | | | | | | | | | | | | | |
| 400 | 91.1 | 92.4 | 93.9 | 94.4 | 96.5 | 97.9 | 98.5 | 99.5 | 102.4 | 105.6 | 108.0 | 107.7 | 109.3 | 108.9 | 108.9 | 108.9 | 108.9 | 108.9 | 157.3 | | | | | | | | | | | | | |
| 500 | 91.4 | 92.7 | 94.5 | 94.5 | 96.6 | 98.0 | 98.4 | 99.4 | 102.8 | 106.8 | 107.3 | 108.0 | 109.7 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 157.7 | | | | | | | | | | | | | |
| 630 | 92.0 | 93.2 | 95.0 | 95.8 | 97.9 | 98.2 | 98.3 | 98.3 | 100.4 | 103.3 | 106.5 | 108.4 | 107.8 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 157.5 | | | | | | | | | | | | | |
| 800 | 91.5 | 92.8 | 94.9 | 95.6 | 97.5 | 98.0 | 98.0 | 98.0 | 100.2 | 103.9 | 106.4 | 107.7 | 106.9 | 110.1 | 107.3 | 107.3 | 107.3 | 107.3 | 157.6 | | | | | | | | | | | | | |
| 1000 | 91.7 | 93.7 | 95.8 | 96.5 | 97.9 | 98.0 | 98.0 | 98.0 | 100.9 | 103.8 | 106.0 | 107.1 | 107.0 | 110.4 | 107.5 | 107.5 | 107.5 | 107.5 | 157.8 | | | | | | | | | | | | | |
| 1250 | 91.3 | 95.1 | 96.9 | 97.2 | 98.8 | 100.1 | 102.0 | 103.7 | 106.7 | 106.5 | 107.5 | 107.5 | 110.1 | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 157.7 | | | | | | | | | | | | | |
| 1600 | 91.5 | 95.1 | 96.4 | 98.6 | 100.0 | 100.0 | 102.4 | 104.5 | 106.5 | 105.9 | 106.9 | 109.2 | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 157.9 | | | | | | | | | | | | | |
| 2000 | 91.1 | 96.7 | 98.8 | 99.8 | 101.4 | 101.4 | 102.4 | 104.5 | 106.5 | 105.9 | 106.9 | 109.2 | 105.6 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 157.1 | | | | | | | | | | | | | |
| 2500 | 89.8 | 96.3 | 98.4 | 100.4 | 102.0 | 100.8 | 102.7 | 103.0 | 105.2 | 103.6 | 105.5 | 106.6 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 156.7 | | | | | | | | | | | | | |
| 3150 | 88.9 | 94.9 | 96.6 | 99.3 | 102.1 | 101.4 | 103.3 | 102.3 | 105.1 | 104.3 | 104.2 | 105.5 | 103.4 | 103.4 | 103.4 | 103.4 | 103.4 | 103.4 | 155.3 | | | | | | | | | | | | | |
| 4000 | 87.3 | 92.0 | 95.1 | 97.3 | 101.0 | 99.9 | 102.5 | 100.1 | 102.9 | 101.9 | 102.3 | 104.0 | 100.9 | 100.9 | 100.9 | 100.9 | 100.9 | 100.9 | 153.8 | | | | | | | | | | | | | |
| 5000 | 85.5 | 91.3 | 93.1 | 95.7 | 98.9 | 98.9 | 99.4 | 99.8 | 102.1 | 100.0 | 100.6 | 100.2 | 100.3 | 100.3 | 100.3 | 100.3 | 100.3 | 100.3 | 153.8 | | | | | | | | | | | | | |
| 6300 | 84.3 | 90.0 | 93.4 | 95.9 | 99.2 | 98.4 | 100.1 | 99.2 | 100.2 | 98.2 | 99.4 | 101.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 152.5 | | | | | | | | | | | | | |
| 8000 | 81.4 | 87.1 | 91.6 | 94.0 | 95.6 | 95.8 | 97.6 | 96.4 | 98.6 | 97.4 | 97.3 | 99.8 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 149.6 | | | | | | | | | | | | | |
| 10000 | 76.1 | 81.6 | 87.0 | 89.3 | 89.7 | 91.1 | 92.1 | 91.5 | 94.7 | 94.1 | 96.0 | 95.4 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 148.6 | | | | | | | | | | | | | |
| 12500 | 73.1 | 77.6 | 83.9 | 85.6 | 85.7 | 87.1 | 88.0 | 88.7 | 92.1 | 91.8 | 94.2 | 93.1 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 151.8 | | | | | | | | | | | | | |
| 16000 | 73.2 | 75.9 | 83.6 | 83.8 | 84.3 | 85.7 | 89.9 | 87.8 | 91.6 | 92.9 | 95.1 | 93.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 170.8 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | 102.9 | 106.2 | 108.1 | 109.5 | 111.6 | 111.7 | 113.5 | 115.1 | 118.0 | 119.7 | 121.4 | 123.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 |
| PNDB | | | | | | | | | | | | | | 114.3 | 119.0 | 121.1 | 122.9 | 125.2 | 125.0 | 126.8 | 127.2 | 129.9 | 130.4 | 131.0 | 132.8 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4116 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|----------------------|-------|---------------------------------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | |
| 50 | 54.2 | (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.) |
| 63 | 54.8 | 58.1 | 61.2 | 61.9 | 63.7 | 65.0 | 67.7 | 69.2 | 70.2 | 73.7 | 78.3 | 78.3 | 78.7 | 76.3 | | | | |
| 80 | 57.0 | 60.9 | 60.7 | 64.0 | 67.0 | 68.3 | 68.5 | 70.2 | 72.5 | 75.7 | 79.8 | 81.0 | 78.0 | | | | | |
| 100 | 57.7 | 60.3 | 63.2 | 64.5 | 66.7 | 69.0 | 69.7 | 71.7 | 74.7 | 79.7 | 82.5 | 82.3 | 77.8 | | | | | |
| 125 | 58.7 | 61.8 | 64.0 | 66.0 | 68.3 | 69.8 | 71.3 | 73.0 | 76.2 | 79.7 | 82.5 | 82.0 | 77.4 | | | | | |
| 160 | 59.3 | 62.7 | 65.1 | 67.6 | 69.9 | 72.2 | 74.1 | 77.9 | 80.3 | 81.8 | 81.1 | 76.5 | | | | | | |
| 200 | 61.4 | 64.4 | 66.8 | 68.1 | 70.1 | 71.4 | 72.6 | 75.3 | 77.3 | 80.4 | 80.2 | 78.6 | 75.0 | | | | | |
| 250 | 60.7 | 64.0 | 67.2 | 68.3 | 70.8 | 72.1 | 73.0 | 76.0 | 78.7 | 80.6 | 79.5 | 78.1 | 73.6 | | | | | |
| 315 | 60.7 | 64.6 | 66.1 | 69.1 | 70.9 | 72.7 | 72.9 | 74.9 | 78.8 | 80.4 | 78.8 | 77.1 | 72.8 | | | | | |
| 400 | 61.1 | 64.2 | 67.0 | 68.4 | 71.0 | 72.5 | 74.0 | 76.4 | 78.3 | 79.8 | 77.7 | 76.5 | 71.5 | | | | | |
| 500 | 60.9 | 64.2 | 67.3 | 68.2 | 70.8 | 72.3 | 73.5 | 76.4 | 79.5 | 78.8 | 77.5 | 76.2 | 69.6 | | | | | |
| 630 | 60.7 | 64.1 | 67.3 | 69.0 | 71.6 | 72.1 | 74.1 | 76.5 | 78.8 | 79.2 | 76.6 | 75.4 | 68.6 | | | | | |
| 800 | 59.4 | 62.9 | 66.5 | 68.2 | 70.6 | 71.6 | 73.3 | 76.4 | 78.0 | 77.8 | 74.8 | 74.5 | 65.9 | | | | | |
| 1000 | 58.5 | 62.9 | 66.6 | 68.4 | 70.3 | 71.6 | 73.3 | 75.6 | 76.8 | 76.3 | 73.9 | 73.5 | 64.0 | | | | | |
| 1250 | 56.8 | 63.2 | 66.8 | 68.1 | 70.3 | 71.9 | 73.6 | 74.6 | 76.5 | 74.6 | 72.9 | 71.4 | 61.3 | | | | | |
| 1600 | 55.0 | 61.5 | 64.8 | 68.3 | 70.3 | 70.6 | 72.8 | 74.0 | 74.5 | 73.5 | 70.7 | 67.8 | 55.8 | | | | | |
| 2000 | 52.3 | 61.3 | 65.5 | 67.9 | 70.2 | 69.3 | 71.2 | 72.6 | 73.3 | 70.5 | 68.1 | 65.0 | 51.2 | | | | | |
| 2500 | 47.7 | 58.1 | 62.7 | 66.2 | 68.7 | 67.8 | 69.4 | 68.9 | 69.4 | 67.4 | 63.4 | 58.0 | 43.4 | | | | | |
| 3150 | 41.4 | 52.2 | 56.9 | 61.5 | 65.3 | 65.0 | 66.6 | 64.5 | 65.4 | 61.6 | 56.6 | 49.9 | 32.4 | | | | | |
| 4000 | 31.6 | 42.6 | 49.5 | 54.1 | 59.1 | 58.4 | 60.6 | 56.9 | 57.3 | 52.4 | 46.7 | 38.0 | 14.4 | | | | | |
| 5000 | 25.2 | 37.9 | 44.1 | 49.3 | 54.0 | 54.2 | 54.5 | 53.5 | 53.1 | 46.6 | 40.3 | 28.1 | 4.8 | | | | | |
| 6300 | 10.2 | 25.2 | 34.3 | 40.3 | 45.5 | 45.3 | 46.4 | 43.6 | 41.1 | 33.4 | 25.4 | 11.9 | | | | | | |
| 8000 | 4.7 | 17.1 | 24.2 | 28.4 | 29.5 | 30.4 | 26.7 | 24.1 | 15.1 | 2.1 | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 71.2 | 75.2 | 78.1 | 80.0 | 82.4 | 83.4 | 84.8 | 86.9 | 89.3 | 90.7 | 91.4 | 90.8 | 86.5 | | | | |
| PNDB | | 76.3 | 82.7 | 86.6 | 89.2 | 91.8 | 92.0 | 93.5 | 94.8 | 96.3 | 96.0 | 94.6 | 93.2 | 86.9 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4116 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(13in)² SIZE

| NO EGA | RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PBL |
|--------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|
| 63 | 76.4 | 86.2 | 84.4 | 85.5 | 87.0 | 87.4 | 87.5 | 88.2 | 88.9 | 91.0 | 95.4 | 94.4 | 96.4 | 132.0 | | | | | | |
| 80 | 76.3 | 80.4 | 81.9 | 83.4 | 85.7 | 87.4 | 87.5 | 88.5 | 87.4 | 87.2 | 96.1 | 97.3 | 97.4 | 132.3 | | | | | | |
| 125 | 76.6 | 80.2 | 82.4 | 82.5 | 83.5 | 83.4 | 84.0 | 85.9 | 87.7 | 93.7 | 97.2 | 98.4 | 100.2 | 133.5 | | | | | | |
| VEHICLE | CELL41 | 80.3 | 80.8 | 81.5 | 84.1 | 85.3 | 86.2 | 88.6 | 91.5 | 95.6 | 100.3 | 103.3 | 104.0 | 137.1 | | | | | | |
| CONFIG | NC58 | 79.3 | 82.1 | 83.3 | 85.0 | 86.1 | 89.5 | 90.4 | 93.1 | 98.9 | 104.4 | 105.8 | 105.8 | 139.8 | | | | | | |
| LOC | C41 ANECH CH | 80.7 | 84.2 | 83.7 | 85.5 | 87.8 | 89.6 | 92.2 | 96.2 | 101.0 | 107.0 | 108.6 | 107.7 | 142.3 | | | | | | |
| DATE | 06-16-76 | 83.2 | 84.5 | 86.2 | 86.5 | 88.3 | 89.7 | 90.1 | 93.7 | 98.0 | 104.0 | 109.2 | 110.7 | 144.3 | | | | | | |
| RUN | CONF4VELDEFN | 83.3 | 84.5 | 86.3 | 87.1 | 88.7 | 90.8 | 91.7 | 94.6 | 99.3 | 106.6 | 111.3 | 110.0 | 146.2 | | | | | | |
| TAPE | X4118C | 85.1 | 86.6 | 88.4 | 90.0 | 91.4 | 93.3 | 96.4 | 100.6 | 107.0 | 111.9 | 113.6 | 111.1 | 147.0 | | | | | | |
| BAR | 29.4 HG | 86.6 | 88.2 | 89.9 | 91.5 | 92.9 | 94.3 | 97.4 | 101.7 | 107.2 | 111.9 | 113.4 | 111.1 | 147.1 | | | | | | |
| (99178. N/M2) | | 89.2 | 90.7 | 91.7 | 91.8 | 92.6 | 94.0 | 95.6 | 98.5 | 102.2 | 106.8 | 110.3 | 111.2 | 145.8 | | | | | | |
| TAMP | 54. DEG F | 87.5 | 89.8 | 92.1 | 92.1 | 92.9 | 95.1 | 95.9 | 99.4 | 103.3 | 106.6 | 108.8 | 110.3 | 145.1 | | | | | | |
| (285. DEG K) | | 87.6 | 89.4 | 90.7 | 92.0 | 93.8 | 95.4 | 96.5 | 98.7 | 103.9 | 106.7 | 108.4 | 110.4 | 145.1 | | | | | | |
| TWET | 53. DEG F | 88.2 | 90.2 | 92.0 | 92.0 | 93.3 | 95.5 | 97.1 | 100.0 | 104.2 | 107.3 | 108.0 | 107.7 | 145.9 | | | | | | |
| (285. DEG K) | | 87.3 | 90.1 | 91.3 | 92.4 | 93.9 | 95.6 | 96.9 | 100.4 | 104.3 | 106.7 | 107.9 | 108.5 | 144.4 | | | | | | |
| HACT | 9.88 GH/M3 | 88.2 | 90.3 | 92.0 | 93.3 | 94.4 | 96.0 | 97.9 | 100.8 | 105.0 | 107.1 | 108.3 | 108.7 | 145.0 | | | | | | |
| (.00988 KG/M3) | | 87.3 | 89.3 | 91.3 | 92.1 | 94.4 | 95.8 | 97.2 | 101.4 | 104.3 | 106.7 | 107.6 | 107.8 | 144.4 | | | | | | |
| JET | O | 86.4 | 89.7 | 91.5 | 93.0 | 94.3 | 96.2 | 97.6 | 102.0 | 104.0 | 106.3 | 107.8 | 107.7 | 144.4 | | | | | | |
| DIAMETER RATIO | | 86.2 | 89.5 | 92.1 | 92.8 | 95.7 | 97.5 | 99.7 | 101.6 | 104.6 | 106.2 | 108.1 | 106.8 | 144.7 | | | | | | |
| DF/DM | 1 | 86.0 | 89.1 | 90.9 | 92.9 | 95.5 | 97.4 | 100.0 | 102.7 | 103.9 | 105.8 | 107.2 | 106.1 | 144.6 | | | | | | |
| OVERALL PEASURED | | 84.7 | 90.1 | 92.4 | 93.4 | 96.5 | 96.8 | 99.7 | 101.1 | 103.4 | 104.6 | 105.7 | 106.1 | 144.1 | | | | | | |
| OVERALL CALCULATED | | 83.1 | 89.4 | 91.0 | 93.5 | 95.3 | 96.1 | 98.8 | 99.4 | 101.5 | 102.7 | 104.6 | 104.9 | 143.2 | | | | | | |
| PN08 | 111.8 | 114.2 | 115.8 | 116.9 | 118.4 | 120.0 | 121.7 | 124.8 | 128.2 | 131.0 | 133.1 | 133.7 | 130.9 | 143.1 | | | | | | |
| 20000 | 79.3 | 84.9 | 87.5 | 89.6 | 94.1 | 94.0 | 97.1 | 95.7 | 98.0 | 98.1 | 100.5 | 104.1 | 100.8 | 141.6 | | | | | | |
| 25000 | 76.9 | 82.5 | 84.4 | 87.2 | 90.7 | 91.2 | 92.4 | 93.1 | 96.0 | 94.9 | 98.7 | 96.0 | 95.0 | 140.0 | | | | | | |
| 31500 | 74.3 | 79.7 | 83.9 | 86.1 | 88.8 | 88.5 | 91.7 | 90.4 | 92.9 | 92.3 | 95.3 | 96.6 | 92.5 | 140.1 | | | | | | |
| 40000 | 69.7 | 75.4 | 80.4 | 81.6 | 83.1 | 83.9 | 87.4 | 86.3 | 88.9 | 89.8 | 93.6 | 92.2 | 88.7 | 139.7 | | | | | | |
| 50000 | 64.9 | 69.4 | 74.5 | 75.4 | 75.8 | 77.1 | 80.4 | 79.4 | 82.7 | 83.6 | 89.9 | 86.1 | 82.6 | 138.5 | | | | | | |
| 63000 | 60.4 | 63.7 | 68.9 | 68.8 | 68.5 | 70.2 | 74.0 | 73.3 | 76.2 | 78.4 | 86.1 | 78.8 | 76.2 | 139.5 | | | | | | |
| 80000 | 57.0 | 59.7 | 66.0 | 63.3 | 63.2 | 65.1 | 72.2 | 67.0 | 70.2 | 74.3 | 87.1 | 74.1 | 73.3 | 148.2 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 4 TEST POINT 4118 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-145cm²(22.4in²) SIZE

1281
119

| RDG. NO. | NO EGA | RADIAL | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | |
|--------------------|--------|--------|---------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 81.4 | 84.2 | 85.4 | 85.7 | 87.1 | 88.2 | 90.6 | 92.5 | 95.2 | 101.0 | 106.5 | 107.9 | 107.9 | 153.4 | | | | | | | | | | | | |
| 63 | 82.8 | 86.3 | 85.8 | 87.6 | 89.9 | 90.8 | 91.7 | 94.3 | 98.3 | 103.1 | 109.1 | 110.8 | 109.8 | 155.9 | | | | | | | | | | | | |
| 80 | 85.3 | 86.6 | 88.3 | 88.6 | 90.5 | 91.8 | 92.2 | 95.9 | 100.1 | 106.1 | 111.3 | 112.8 | 111.1 | 157.9 | | | | | | | | | | | | |
| 100 | 85.4 | 86.7 | 88.4 | 89.2 | 90.8 | 92.9 | 93.8 | 96.7 | 101.4 | 108.7 | 113.4 | 114.6 | 112.2 | 159.8 | | | | | | | | | | | | |
| 125 | 87.2 | 88.8 | 89.0 | 90.5 | 92.1 | 93.5 | 95.4 | 98.5 | 102.8 | 109.1 | 114.0 | 115.7 | 113.3 | 160.6 | | | | | | | | | | | | |
| 160 | 88.7 | 89.8 | 90.3 | 92.1 | 93.7 | 95.0 | 96.4 | 99.6 | 103.8 | 109.3 | 114.1 | 115.5 | 113.3 | 160.7 | | | | | | | | | | | | |
| 200 | 91.3 | 92.8 | 93.9 | 94.2 | 95.1 | 97.2 | 98.1 | 101.5 | 105.4 | 108.8 | 111.0 | 112.4 | 110.4 | 159.4 | | | | | | | | | | | | |
| 250 | 89.7 | 91.9 | 94.2 | 94.2 | 95.1 | 97.2 | 98.1 | 101.5 | 105.4 | 108.8 | 111.0 | 112.4 | 110.4 | 158.7 | | | | | | | | | | | | |
| 315 | 89.8 | 91.5 | 92.8 | 94.1 | 95.9 | 97.5 | 98.7 | 100.8 | 106.1 | 109.4 | 110.1 | 111.8 | 108.3 | 158.6 | | | | | | | | | | | | |
| 400 | 90.3 | 92.3 | 94.1 | 94.1 | 95.5 | 97.6 | 99.2 | 102.1 | 106.4 | 109.4 | 110.1 | 111.8 | 108.3 | 158.5 | | | | | | | | | | | | |
| 500 | 89.4 | 92.2 | 93.5 | 94.5 | 96.1 | 97.7 | 99.1 | 102.5 | 106.5 | 108.8 | 110.0 | 110.7 | 107.2 | 158.0 | | | | | | | | | | | | |
| 630 | 90.4 | 92.5 | 94.2 | 95.5 | 96.6 | 98.2 | 100.1 | 103.0 | 107.2 | 109.3 | 110.5 | 110.9 | 107.7 | 158.6 | | | | | | | | | | | | |
| 800 | 89.5 | 91.6 | 93.6 | 94.4 | 96.7 | 98.1 | 99.4 | 103.6 | 106.6 | 108.9 | 109.9 | 110.0 | 105.3 | 158.0 | | | | | | | | | | | | |
| 1000 | 88.6 | 91.9 | 93.7 | 95.3 | 96.6 | 98.4 | 99.8 | 104.3 | 106.2 | 108.6 | 110.0 | 109.9 | 105.4 | 158.0 | | | | | | | | | | | | |
| 1250 | 88.6 | 91.9 | 94.4 | 95.2 | 98.0 | 99.9 | 102.0 | 103.9 | 106.9 | 108.5 | 110.5 | 109.1 | 105.6 | 158.3 | | | | | | | | | | | | |
| 1600 | 88.5 | 91.6 | 93.4 | 95.4 | 98.0 | 99.9 | 102.5 | 105.2 | 106.4 | 108.3 | 109.7 | 108.6 | 103.6 | 158.1 | | | | | | | | | | | | |
| 2000 | 87.4 | 92.8 | 95.1 | 96.1 | 99.2 | 99.5 | 102.4 | 103.9 | 105.1 | 107.3 | 108.5 | 108.8 | 105.8 | 157.7 | | | | | | | | | | | | |
| 2500 | 86.2 | 92.5 | 94.1 | 96.6 | 98.4 | 99.2 | 101.9 | 102.5 | 104.6 | 105.8 | 107.7 | 108.0 | 104.7 | 156.8 | | | | | | | | | | | | |
| 3150 | 85.1 | 90.9 | 93.6 | 96.0 | 98.8 | 99.2 | 102.6 | 102.1 | 104.6 | 104.1 | 107.0 | 107.7 | 104.4 | 156.7 | | | | | | | | | | | | |
| 4000 | 83.6 | 89.2 | 91.9 | 94.0 | 96.5 | 98.3 | 101.5 | 100.0 | 102.4 | 102.4 | 104.8 | 105.4 | 102.6 | 155.2 | | | | | | | | | | | | |
| 5000 | 82.5 | 88.1 | 90.1 | 92.8 | 96.3 | 96.8 | 98.0 | 98.7 | 101.6 | 100.5 | 104.3 | 101.6 | 100.6 | 153.6 | | | | | | | | | | | | |
| 6300 | 81.5 | 86.9 | 91.1 | 93.3 | 96.0 | 95.7 | 98.9 | 97.6 | 100.2 | 99.5 | 102.5 | 103.8 | 99.8 | 153.7 | | | | | | | | | | | | |
| 8000 | 79.3 | 85.0 | 89.9 | 91.1 | 92.7 | 93.5 | 96.9 | 95.9 | 98.4 | 99.4 | 103.2 | 101.7 | 98.2 | 153.3 | | | | | | | | | | | | |
| 10000 | 77.5 | 82.0 | 87.0 | 88.0 | 88.4 | 89.7 | 93.0 | 92.0 | 95.3 | 96.2 | 102.5 | 98.7 | 94.9 | 152.1 | | | | | | | | | | | | |
| 12500 | 77.4 | 80.7 | 86.0 | 85.8 | 85.6 | 87.2 | 91.1 | 90.4 | 93.2 | 95.4 | 103.2 | 95.8 | 93.3 | 153.2 | | | | | | | | | | | | |
| 16000 | 80.4 | 83.1 | 89.4 | 86.7 | 86.6 | 88.5 | 95.6 | 90.4 | 93.6 | 97.7 | 110.5 | 97.5 | 96.7 | 161.8 | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | 101.4 | 104.3 | 106.3 | 107.5 | 109.7 | 110.9 | 113.1 | 115.0 | 118.2 | 121.0 | 124.1 | 124.8 | 122.3 |
| PNDB | | | | | | | | | | | | | | 111.8 | 116.3 | 118.5 | 120.3 | 122.8 | 123.6 | 126.2 | 127.0 | 129.8 | 131.2 | 133.7 | 134.2 | 131.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

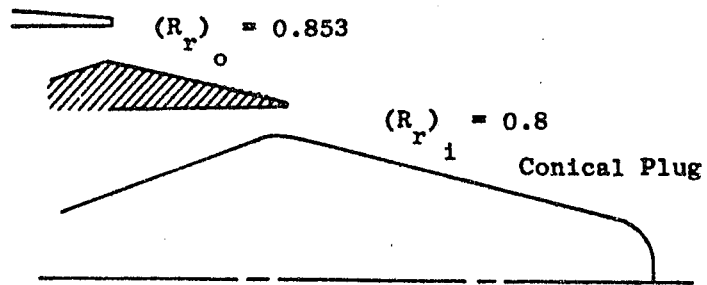
CONFIGURATION 4 TEST POINT 4118 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO EGA | (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) |
| SIDELINE 2400. FT. | 53.2 | 57.6 | 59.9 | 60.9 | 62.7 | 63.9 | 66.2 | 67.7 | 69.7 | 74.4 | 78.3 | 77.5 | 74.0 |
| (731.52 M) | 54.5 | 59.6 | 60.2 | 62.7 | 63.7 | 65.5 | 67.3 | 69.5 | 72.7 | 76.4 | 80.8 | 80.2 | 75.8 |
| NFA (0. RAD/SEC) | 57.0 | 59.8 | 62.7 | 63.7 | 66.0 | 67.5 | 67.7 | 71.0 | 74.4 | 79.4 | 83.0 | 82.1 | 76.9 |
| NFK (0. RAD/SEC) | 56.9 | 59.8 | 62.7 | 64.2 | 66.2 | 68.5 | 69.2 | 71.7 | 75.7 | 81.9 | 85.0 | 83.8 | 77.8 |
| NFD (7500. RPM) | 58.7 | 61.8 | 63.2 | 65.5 | 69.0 | 70.8 | 73.5 | 77.0 | 82.1 | 85.5 | 84.8 | 78.6 | 78.6 |
| (785. RAD/SEC) | 60.0 | 62.7 | 64.3 | 66.9 | 68.9 | 70.4 | 71.7 | 74.4 | 77.8 | 82.3 | 85.3 | 84.3 | 78.3 |
| AIRFLOW RATIO | 62.4 | 65.6 | 67.8 | 68.6 | 69.9 | 71.4 | 72.9 | 75.3 | 78.3 | 81.7 | 83.4 | 81.9 | 76.5 |
| WF/WM 4.78 | 60.4 | 64.5 | 67.9 | 68.7 | 70.0 | 72.3 | 73.0 | 76.0 | 79.2 | 81.3 | 81.8 | 80.6 | 74.6 |
| VEHICLE CELL41 | 60.2 | 63.8 | 66.3 | 68.4 | 70.7 | 72.4 | 73.4 | 75.1 | 79.5 | 81.1 | 81.0 | 80.3 | 73.3 |
| CONFIG NC58 | 60.3 | 64.2 | 67.3 | 68.1 | 69.9 | 72.2 | 73.7 | 76.1 | 79.5 | 81.3 | 80.1 | 79.0 | 71.0 |
| LOC C41 ANECH CH | 58.9 | 63.7 | 66.2 | 68.1 | 70.2 | 72.0 | 73.8 | 76.2 | 79.5 | 80.2 | 79.3 | 76.6 | 68.0 |
| DATE 06-16-76 | 59.2 | 63.3 | 66.5 | 68.7 | 70.3 | 72.1 | 73.2 | 76.2 | 79.2 | 79.0 | 77.8 | 74.5 | 63.9 |
| RUN CONF4VELDEPN | 57.4 | 61.7 | 65.2 | 66.9 | 69.8 | 71.3 | 72.6 | 76.2 | 78.2 | 77.0 | 76.8 | 73.0 | 62.0 |
| TAPE X41180 | 55.5 | 61.2 | 64.5 | 67.1 | 69.0 | 71.1 | 72.3 | 76.1 | 77.0 | 77.8 | 76.8 | 73.0 | 62.0 |
| FAN TIP SPEED | 54.0 | 60.0 | 64.2 | 66.1 | 69.6 | 71.6 | 73.6 | 74.9 | 76.7 | 76.6 | 75.9 | 70.4 | 59.5 |
| FT/SEC | 52.0 | 58.1 | 61.8 | 65.1 | 68.3 | 70.4 | 72.8 | 74.8 | 74.8 | 74.8 | 73.2 | 67.4 | 55.8 |
| OVERALL CALCULATED | 48.6 | 57.3 | 61.9 | 64.2 | 68.0 | 68.6 | 71.3 | 72.0 | 72.9 | 71.9 | 69.7 | 64.6 | 51.6 |
| PHDB | 44.0 | 54.2 | 58.4 | 62.4 | 65.1 | 66.2 | 68.6 | 68.3 | 68.9 | 67.6 | 65.5 | 59.4 | 44.0 |
| | 3150 | 37.6 | 48.2 | 53.9 | 58.3 | 62.1 | 62.8 | 65.8 | 64.3 | 64.9 | 61.4 | 59.5 | 52.2 |
| | 4000 | 28.0 | 39.7 | 46.3 | 50.8 | 56.8 | 56.8 | 59.6 | 56.8 | 56.8 | 53.0 | 49.2 | 39.4 |
| | 5000 | 22.2 | 34.8 | 41.0 | 46.5 | 51.4 | 52.4 | 53.2 | 52.4 | 52.6 | 47.2 | 44.0 | 29.5 |
| | 6300 | 7.4 | 22.1 | 32.1 | 37.7 | 42.4 | 42.7 | 45.3 | 42.0 | 41.1 | 34.7 | 28.4 | 13.9 |
| | 10000 | 2.6 | 15.4 | 21.4 | 25.6 | 27.2 | 29.8 | 26.1 | 23.9 | 17.0 | 8.0 | | |
| | 12500 | | | | 4.9 | 7.1 | 2.5 | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.5 | 74.5 | 77.3 | 79.1 | 81.3 | 83.0 | 84.5 | 86.9 | 89.7 | 92.2 | 93.7 | 92.5 | 86.4 |
| PHDB | 74.8 | 80.4 | 84.3 | 86.8 | 89.9 | 91.1 | 93.2 | 94.8 | 96.3 | 97.3 | 97.2 | 94.9 | 87.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 4 TEST POINT 4118 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

6.5 Acoustic Data

• Coannular Configuration No. 5



$$A_0 = 18.049 \text{ in.}^2$$

$$A_T = A^0 + A^i = 29.399 \text{ in.}^2$$

CS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANIS)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180.
 (0.70)(C.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.20)(3.40)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 100 | 78.1 | 86.4 | 83.9 | 35.2 | 86.3 | 85.9 | 86.6 | 87.0 | 87.9 | 89.7 | 93.4 | 103.6 | 96.4 | 134.8 | | |
| 125 | 76.1 | 81.9 | 84.2 | 86.3 | 87.1 | 87.5 | 88.7 | 88.7 | 87.6 | 86.4 | 94.6 | 107.1 | 98.1 | 137.4 | | |
| 160 | 77.6 | 78.7 | 82.7 | 83.0 | 83.6 | 84.2 | 84.3 | 85.7 | 86.7 | 86.7 | 91.0 | 107.6 | 100.2 | 138.0 | | |
| 200 | 79.0 | 80.0 | 81.8 | 82.8 | 83.4 | 84.5 | 85.7 | 87.8 | 90.5 | 94.1 | 97.6 | 112.3 | 104.3 | 142.2 | | |
| 250 | 78.6 | 81.6 | 83.3 | 83.1 | 84.2 | 85.6 | 88.2 | 89.9 | 91.3 | 95.4 | 101.4 | 114.8 | 106.3 | 146.7 | | |
| 315 | 79.9 | 84.4 | 83.2 | 85.0 | 87.3 | 88.4 | 89.3 | 91.0 | 93.9 | 97.8 | 102.7 | 116.9 | 107.7 | 146.8 | | |
| 400 | 82.2 | 83.7 | 85.7 | 85.8 | 86.8 | 88.2 | 89.1 | 92.0 | 95.0 | 99.8 | 105.5 | 118.2 | 107.7 | 148.0 | | |
| 500 | 82.3 | 83.3 | 85.0 | 85.8 | 86.9 | 88.3 | 89.9 | 92.6 | 95.5 | 100.9 | 105.3 | 118.5 | 108.0 | 148.4 | | |
| 630 | 83.4 | 84.9 | 85.7 | 87.2 | 88.8 | 89.4 | 91.5 | 93.9 | 96.9 | 101.5 | 105.2 | 118.6 | 107.9 | 148.5 | | |
| 800 | 84.4 | 85.9 | 86.9 | 88.0 | 89.5 | 90.4 | 92.8 | 94.7 | 98.4 | 102.0 | 104.4 | 117.1 | 106.9 | 147.2 | | |
| 1000 | 87.0 | 87.7 | 88.5 | 89.8 | 90.1 | 91.5 | 93.1 | 95.5 | 98.3 | 101.6 | 103.5 | 114.0 | 105.0 | 147.2 | | |
| 1250 | 86.0 | 87.3 | 89.3 | 89.6 | 90.5 | 91.8 | 93.5 | 96.4 | 99.1 | 101.9 | 102.6 | 112.5 | 102.8 | 143.6 | | |
| 1600 | 86.4 | 87.9 | 89.0 | 89.5 | 90.8 | 92.4 | 93.6 | 95.5 | 99.0 | 101.5 | 101.5 | 111.7 | 101.2 | 142.9 | | |
| 2000 | 87.2 | 87.7 | 89.3 | 89.8 | 91.4 | 92.0 | 93.9 | 96.8 | 99.0 | 100.8 | 100.3 | 109.5 | 99.7 | 141.5 | | |
| 2500 | 86.6 | 87.9 | 89.1 | 90.2 | 91.4 | 91.9 | 94.5 | 95.7 | 95.1 | 100.2 | 98.9 | 108.8 | 98.1 | 140.9 | | |
| 3150 | 87.0 | 88.1 | 89.9 | 89.6 | 91.5 | 92.1 | 94.0 | 96.6 | 99.6 | 99.7 | 98.4 | 108.1 | 97.6 | 140.5 | | |
| 4000 | 85.8 | 87.1 | 88.2 | 89.4 | 90.3 | 91.6 | 93.3 | 96.9 | 98.7 | 99.0 | 96.9 | 106.1 | 95.1 | 139.3 | | |
| 5000 | 85.2 | 86.3 | 88.0 | 89.1 | 90.1 | 91.5 | 93.4 | 96.1 | 98.0 | 97.9 | 96.6 | 105.2 | 95.8 | 138.7 | | |
| 6300 | 83.8 | 86.3 | 87.1 | 88.4 | 90.2 | 92.1 | 94.2 | 95.4 | 97.6 | 96.8 | 95.7 | 105.8 | 98.6 | 139.0 | | |
| 8000 | 83.5 | 84.6 | 85.2 | 87.7 | 90.0 | 91.9 | 93.5 | 94.7 | 97.2 | 96.1 | 95.0 | 105.1 | 98.6 | 138.6 | | |
| 10000 | 80.9 | 84.3 | 84.9 | 86.6 | 88.9 | 89.8 | 92.2 | 94.1 | 96.1 | 95.0 | 93.5 | 104.6 | 98.0 | 136.1 | | |
| 12500 | 78.3 | 82.3 | 82.9 | 84.9 | 87.0 | 88.1 | 90.5 | 91.3 | 93.4 | 91.9 | 91.8 | 103.3 | 97.3 | 136.9 | | |
| 16000 | 75.9 | 80.1 | 81.3 | 83.7 | 85.3 | 86.4 | 89.5 | 89.3 | 92.1 | 89.8 | 88.4 | 102.2 | 96.4 | 136.4 | | |
| 20000 | 73.0 | 76.8 | 78.2 | 80.3 | 84.1 | 83.7 | 87.1 | 85.7 | 88.5 | 85.7 | 84.4 | 97.1 | 89.5 | 132.9 | | |
| 25000 | 69.6 | 74.3 | 75.2 | 76.5 | 80.0 | 80.2 | 81.5 | 82.4 | 84.7 | 81.4 | 82.2 | 91.5 | 84.9 | 129.8 | | |
| 31500 | 67.0 | 72.1 | 74.2 | 75.7 | 79.0 | 78.4 | 80.1 | 78.5 | 80.5 | 76.8 | 76.8 | 89.7 | 81.5 | 129.5 | | |
| 40000 | 62.6 | 69.7 | 72.0 | 73.6 | 75.6 | 75.9 | 78.4 | 75.8 | 76.3 | 72.9 | 71.7 | 84.1 | 75.4 | 128.7 | | |
| 50000 | 56.7 | 64.8 | 67.0 | 68.6 | 70.9 | 71.7 | 72.5 | 71.5 | 70.5 | 66.7 | 64.4 | 75.2 | 66.8 | 126.9 | | |
| 63000 | 50.9 | 55.4 | 59.5 | 59.2 | 63.4 | 63.4 | 63.4 | 61.2 | 62.5 | 60.6 | 56.1 | 66.9 | 58.4 | 126.7 | | |
| 80000 | 47.3 | 50.9 | 56.6 | 53.7 | 60.9 | 61.0 | 61.9 | 53.9 | 55.8 | 59.1 | 50.2 | 61.8 | 53.5 | 120.6 | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 97.4 | 99.2 | 100.2 | 101.2 | 102.7 | 103.8 | 105.6 | 107.7 | 110.3 | 112.3 | 114.5 | 126.7 | 117.1 | 157.2 | | |
| PUSH | 110.4 | 111.9 | 112.9 | 113.8 | 115.4 | 116.3 | 118.1 | 120.6 | 123.1 | 124.3 | 124.6 | 135.3 | 125.6 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **540** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-190cm²(29.4in²)**

PAGE 390 INTENTIONALLY BLANK

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 27 HR. 5.5
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)

| RDG. NO. | NO EGA | RADIAL 159. FT.
(46. M) | VEHICLE
CELL 41
HC54 | CONFIG
LOC C41 ANECH CH
DATE 06-11-76
RUN CONF5HIGHFLW
TAPE X05400
BAR 29.3 HG
(98807. N/M2)
TAMB 90. DEG F
(305. DEG K)
TWET 76. DEG F
(297. DEG K)
HACT17.67 GM/M3
(.01767 KG/M3)
FREQ. SHIFT
JET 6
DIAMETER RATIO
DF/DM 4.18 | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | PROC. DATE - MONTH 8 DAY 27 HR. 5.5 | REL. HUM. DAY - JEMOTS | PWL | | | |
|--------------------|--------|-----------------------------|----------------------------|---|-------|---|-------|-------|-------------------------------------|------------------------|-------|-------|-------|-------|
| | | | | | | 40. | 50. | 60. | | | | 70. | 80. | 90. |
| 50 | 80.0 | 81.0 | 82.7 | 83.8 | 84.4 | 85.5 | 86.6 | 88.8 | 91.5 | 95.1 | 98.5 | 113.2 | 105.2 | 154.7 |
| 63 | 79.5 | 82.5 | 84.3 | 84.1 | 85.2 | 86.5 | 89.2 | 90.8 | 92.3 | 96.3 | 102.3 | 115.7 | 107.3 | 157.2 |
| 80 | 80.9 | 85.4 | 84.1 | 85.9 | 88.3 | 89.4 | 90.3 | 91.9 | 94.9 | 98.7 | 103.7 | 117.8 | 108.6 | 159.2 |
| 100 | 83.1 | 84.7 | 86.7 | 87.8 | 89.2 | 90.0 | 93.0 | 95.9 | 100.7 | 106.4 | 119.1 | 108.7 | 160.5 | |
| 125 | 83.2 | 84.2 | 86.0 | 86.8 | 87.9 | 89.2 | 90.9 | 93.5 | 96.5 | 101.8 | 106.3 | 119.5 | 109.0 | 160.8 |
| 160 | 84.3 | 85.8 | 86.6 | 88.1 | 89.7 | 90.3 | 92.5 | 94.9 | 97.8 | 102.4 | 106.1 | 119.6 | 108.8 | 160.9 |
| 200 | 85.3 | 86.9 | 87.9 | 88.9 | 90.5 | 91.4 | 93.7 | 95.7 | 99.4 | 102.9 | 105.4 | 118.1 | 107.9 | 159.7 |
| 250 | 87.9 | 88.7 | 89.5 | 90.7 | 91.1 | 92.4 | 94.1 | 96.5 | 99.2 | 102.5 | 104.5 | 114.9 | 105.9 | 157.1 |
| 315 | 87.0 | 88.3 | 90.3 | 90.6 | 91.4 | 92.8 | 94.4 | 97.3 | 100.0 | 102.9 | 103.6 | 113.5 | 103.8 | 156.1 |
| 400 | 87.4 | 88.9 | 89.9 | 90.4 | 91.8 | 93.4 | 94.5 | 96.4 | 99.9 | 102.5 | 102.4 | 112.6 | 102.1 | 155.3 |
| 500 | 88.2 | 88.7 | 90.2 | 90.7 | 92.3 | 92.9 | 94.8 | 97.7 | 100.0 | 101.8 | 101.2 | 110.4 | 100.7 | 153.9 |
| 630 | 87.5 | 88.8 | 90.1 | 91.1 | 92.2 | 92.8 | 95.5 | 97.6 | 100.1 | 101.2 | 99.9 | 109.8 | 99.1 | 153.4 |
| 800 | 88.0 | 89.1 | 89.8 | 90.6 | 92.5 | 93.1 | 95.0 | 97.6 | 100.6 | 100.7 | 99.4 | 109.0 | 98.6 | 153.0 |
| 1000 | 86.8 | 88.2 | 89.2 | 90.5 | 91.3 | 92.7 | 94.3 | 98.0 | 99.7 | 100.0 | 98.0 | 107.1 | 96.2 | 151.7 |
| 1250 | 86.2 | 87.3 | 89.1 | 90.1 | 91.2 | 92.5 | 94.4 | 97.1 | 99.1 | 98.9 | 97.6 | 106.3 | 96.8 | 151.1 |
| 1600 | 84.9 | 87.4 | 88.2 | 89.5 | 91.3 | 93.2 | 95.3 | 96.5 | 98.7 | 97.9 | 96.8 | 106.9 | 99.7 | 151.6 |
| 2000 | 84.5 | 85.9 | 86.4 | 88.9 | 91.3 | 93.1 | 94.8 | 95.9 | 98.4 | 97.3 | 96.2 | 106.4 | 99.9 | 150.5 |
| 2500 | 82.3 | 85.7 | 86.3 | 88.0 | 90.4 | 91.2 | 93.6 | 95.5 | 97.6 | 96.5 | 94.9 | 106.0 | 99.5 | 149.5 |
| 3150 | 80.0 | 84.0 | 84.6 | 86.6 | 88.6 | 89.7 | 92.1 | 93.0 | 95.1 | 93.6 | 93.5 | 105.0 | 99.0 | 148.8 |
| 4000 | 78.0 | 82.3 | 83.4 | 85.9 | 87.4 | 88.5 | 91.7 | 91.4 | 94.2 | 91.9 | 92.5 | 104.3 | 98.5 | 145.3 |
| 5000 | 76.0 | 79.8 | 81.2 | 83.3 | 85.3 | 87.1 | 86.7 | 90.1 | 88.6 | 91.4 | 88.7 | 87.3 | 100.0 | 92.4 |
| 6300 | 73.4 | 78.2 | 79.1 | 80.4 | 83.9 | 84.1 | 85.4 | 86.3 | 88.6 | 85.2 | 86.1 | 95.4 | 88.7 | 142.2 |
| 8000 | 72.2 | 77.2 | 79.4 | 80.9 | 84.1 | 83.6 | 85.3 | 85.6 | 85.7 | 82.0 | 82.0 | 94.9 | 86.6 | 141.9 |
| 10000 | 69.8 | 76.8 | 79.2 | 80.7 | 82.8 | 83.1 | 85.5 | 82.9 | 83.4 | 80.0 | 78.8 | 91.3 | 82.6 | 141.1 |
| 12500 | 66.3 | 74.4 | 76.6 | 78.2 | 80.5 | 81.4 | 82.1 | 81.1 | 80.1 | 76.4 | 74.0 | 84.8 | 76.4 | 139.3 |
| 16000 | 63.9 | 68.3 | 72.4 | 72.1 | 76.4 | 76.3 | 76.4 | 74.1 | 75.4 | 73.5 | 69.1 | 79.8 | 71.3 | 137.1 |
| 20000 | 65.7 | 69.3 | 74.9 | 72.1 | 79.4 | 79.4 | 80.3 | 72.2 | 74.2 | 77.4 | 63.5 | 80.1 | 71.9 | 143.0 |
| OVERALL CALCULATED | 98.3 | 99.9 | 101.1 | 102.1 | 103.6 | 104.7 | 106.6 | 108.7 | 111.3 | 113.3 | 115.3 | 127.6 | 117.9 | 169.5 |
| P.NDB | 107.9 | 110.6 | 111.6 | 113.0 | 115.0 | 116.0 | 118.1 | 119.7 | 122.1 | 122.1 | 122.1 | 133.3 | 125.3 | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 540 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO EGA | (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) |
| SIDELINE 2400. FT. | 50 | 51.8 | 54.4 | 57.2 | 59.0 | 60.0 | 61.2 | 62.2 | 64.0 | 68.4 | 70.3 | 82.8 | 71.3 |
| (731.52 M) | 63 | 51.3 | 55.9 | 58.7 | 59.2 | 60.7 | 62.2 | 64.7 | 66.0 | 69.7 | 74.1 | 85.2 | 73.3 |
| NFA | 80 | 52.5 | 58.6 | 58.5 | 61.0 | 63.8 | 65.0 | 65.8 | 67.0 | 69.3 | 72.0 | 75.3 | 74.4 |
| (0. RAD/SEC) | 100 | 54.7 | 57.8 | 61.0 | 61.7 | 63.3 | 64.8 | 65.5 | 68.0 | 70.2 | 73.9 | 78.0 | 88.4 |
| NFK | 125 | 54.6 | 57.3 | 60.2 | 61.7 | 63.2 | 64.8 | 66.2 | 68.5 | 70.7 | 74.9 | 77.7 | 88.4 |
| (0. RAD/SEC) | 200 | 55.6 | 58.8 | 60.7 | 63.0 | 65.0 | 65.7 | 67.7 | 69.7 | 71.9 | 75.3 | 77.4 | 88.4 |
| NFD | 250 | 56.4 | 59.6 | 61.8 | 63.6 | 65.6 | 66.6 | 68.9 | 70.3 | 73.3 | 75.7 | 76.4 | 86.6 |
| (785. RAD/SEC) | 315 | 58.7 | 61.2 | 63.2 | 65.2 | 66.0 | 67.5 | 69.0 | 71.0 | 72.9 | 75.1 | 75.3 | 83.1 |
| AIREFLOW RATIO | 315 | 57.5 | 60.5 | 63.8 | 64.9 | 66.2 | 67.7 | 69.2 | 71.6 | 73.5 | 75.1 | 74.0 | 81.3 |
| WF/WH 4.18 | 400 | 57.4 | 60.8 | 63.1 | 64.4 | 66.2 | 68.0 | 69.0 | 70.4 | 73.1 | 74.4 | 72.4 | 79.8 |
| VEHICLE | 500 | 57.6 | 60.1 | 63.0 | 64.4 | 66.5 | 67.2 | 69.0 | 71.4 | 72.7 | 73.2 | 70.7 | 76.9 |
| CONFIG | 600 | 56.3 | 59.7 | 62.4 | 64.3 | 65.9 | 66.7 | 69.1 | 70.8 | 72.4 | 72.0 | 68.7 | 75.4 |
| LOC C41 ANECH CH | 800 | 55.9 | 59.2 | 61.5 | 63.2 | 65.6 | 66.4 | 68.1 | 70.2 | 72.2 | 70.8 | 67.3 | 73.5 |
| DATE 06-11-76 | 1000 | 53.7 | 57.4 | 60.0 | 62.3 | 62.7 | 64.3 | 66.0 | 68.0 | 68.9 | 69.3 | 64.8 | 70.2 |
| RUN CONFISHGHEW | 1250 | 51.7 | 55.4 | 58.9 | 61.0 | 62.7 | 63.7 | 65.3 | 66.7 | 69.8 | 67.0 | 63.1 | 67.6 |
| TAPE X05400 | 1600 | 48.4 | 53.9 | 56.6 | 59.1 | 61.6 | 63.7 | 65.6 | 66.1 | 67.1 | 64.3 | 60.3 | 65.7 |
| FAN TIP SPEED | 2000 | 45.7 | 50.4 | 53.1 | 57.0 | 60.1 | 62.2 | 63.6 | 64.0 | 65.1 | 61.9 | 57.4 | 62.1 |
| FT/SEC | 2500 | 40.2 | 47.5 | 50.6 | 53.9 | 57.1 | 58.2 | 60.3 | 61.4 | 61.8 | 58.2 | 52.7 | 57.4 |
| | 3150 | 32.5 | 41.3 | 44.9 | 48.8 | 51.9 | 53.3 | 55.4 | 55.2 | 55.4 | 50.8 | 45.9 | 49.5 |
| | 4000 | 22.4 | 32.8 | 37.8 | 42.7 | 45.5 | 47.0 | 49.8 | 48.2 | 48.6 | 42.5 | 36.9 | 38.3 |
| | 5000 | 15.7 | 26.5 | 32.2 | 37.0 | 42.2 | 42.3 | 42.4 | 42.3 | 42.4 | 35.4 | 27.0 | 27.9 |
| | 6300 | 13.4 | 20.0 | 24.8 | 30.2 | 31.1 | 31.7 | 30.7 | 29.5 | 20.6 | 12.0 | 12.0 | 5.4 |
| | 8000 | | 4.9 | 11.1 | 17.0 | 17.3 | 18.2 | 13.9 | 11.2 | | | | |
| OVERALL CALCULATED | 10000 | 67.5 | 70.8 | 73.2 | 75.0 | 76.7 | 78.0 | 79.7 | 81.6 | 83.4 | 85.0 | 86.0 | 96.2 |
| | 12500 | 71.8 | 75.8 | 78.5 | 80.7 | 83.2 | 84.8 | 86.5 | 87.7 | 89.1 | 89.5 | 88.4 | 97.4 |
| | 16000 | | | | | | | | | | | | 82.3 |
| | 20000 | | | | | | | | | | | | 82.3 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 540 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 81.6 | 89.9 | 87.2 | 89.0 | 89.8 | 89.7 | 90.3 | 91.2 | 91.2 | 93.5 | 96.9 | 97.4 | 100.7 | 134.9 |
| 125 | 79.1 | 84.9 | 84.6 | 86.9 | 88.7 | 90.1 | 90.5 | 91.7 | 90.6 | 89.4 | 58.1 | 100.8 | 101.6 | 135.6 |
| 160 | 79.6 | 81.7 | 85.7 | 86.0 | 86.5 | 86.9 | 86.5 | 88.7 | 89.4 | 93.7 | 99.2 | 101.4 | 103.7 | 136.3 |
| 200 | 82.3 | 82.3 | 83.8 | 85.8 | 86.2 | 87.0 | 88.2 | 90.6 | 93.3 | 96.9 | 100.6 | 106.3 | 108.0 | 139.9 |
| 250 | 81.1 | 83.8 | 85.6 | 86.1 | 86.5 | 88.3 | 91.0 | 92.9 | 94.3 | 97.9 | 104.6 | 108.0 | 109.3 | 141.8 |
| 315 | 82.2 | 86.9 | 85.9 | 87.5 | 89.8 | 90.7 | 91.6 | 93.7 | 96.2 | 100.8 | 106.7 | 110.6 | 111.2 | 141.0 |
| 400 | 84.4 | 86.0 | 88.0 | 88.3 | 89.3 | 90.2 | 91.6 | 94.3 | 97.5 | 102.5 | 109.0 | 112.2 | 111.5 | 145.3 |
| 500 | 85.0 | 86.0 | 87.5 | 88.3 | 89.4 | 91.5 | 92.7 | 95.3 | 98.3 | 104.6 | 109.8 | 113.3 | 112.0 | 146.3 |
| 630 | 86.4 | 87.6 | 88.6 | 89.7 | 91.5 | 92.4 | 94.3 | 96.7 | 99.6 | 104.7 | 109.9 | 114.1 | 112.6 | 146.9 |
| 800 | 88.1 | 89.2 | 89.4 | 91.2 | 92.5 | 93.9 | 95.0 | 98.0 | 100.9 | 105.2 | 110.2 | 114.1 | 113.4 | 147.3 |
| 1000 | 91.0 | 91.5 | 91.5 | 92.3 | 93.4 | 94.5 | 96.1 | 98.5 | 101.3 | 105.3 | 109.0 | 112.7 | 113.0 | 146.5 |
| 1250 | 90.0 | 91.3 | 92.3 | 92.9 | 93.2 | 95.3 | 96.7 | 99.6 | 102.1 | 105.4 | 107.9 | 112.3 | 111.8 | 146.0 |
| 1600 | 89.9 | 91.9 | 91.7 | 92.5 | 93.8 | 95.4 | 96.8 | 99.2 | 102.5 | 104.6 | 106.7 | 110.4 | 110.9 | 145.0 |
| 2000 | 91.7 | 92.0 | 92.5 | 93.5 | 94.4 | 95.2 | 97.4 | 100.3 | 102.5 | 105.1 | 105.3 | 109.2 | 108.5 | 144.2 |
| 2500 | 95.1 | 94.1 | 94.1 | 93.9 | 94.7 | 95.6 | 97.5 | 100.4 | 102.6 | 104.0 | 104.7 | 108.1 | 107.9 | 143.7 |
| 3150 | 94.3 | 95.1 | 95.1 | 95.6 | 96.2 | 96.1 | 97.5 | 100.1 | 102.9 | 103.7 | 104.6 | 106.8 | 106.3 | 143.4 |
| 4000 | 92.3 | 93.4 | 93.7 | 95.2 | 95.8 | 96.4 | 97.3 | 99.9 | 102.4 | 103.5 | 103.2 | 105.1 | 103.9 | 142.5 |
| 5000 | 91.2 | 92.3 | 92.8 | 94.1 | 94.6 | 96.0 | 97.4 | 100.1 | 101.5 | 101.6 | 101.8 | 104.5 | 103.3 | 141.7 |
| 6300 | 89.5 | 91.3 | 92.1 | 93.4 | 94.7 | 96.3 | 98.5 | 99.9 | 101.9 | 101.0 | 101.4 | 104.8 | 103.3 | 141.8 |
| 8000 | 87.8 | 89.1 | 90.4 | 92.4 | 94.3 | 95.6 | 98.3 | 99.2 | 101.2 | 100.6 | 100.0 | 103.1 | 102.1 | 141.1 |
| 10000 | 86.4 | 88.8 | 89.1 | 90.9 | 94.2 | 94.3 | 96.2 | 98.4 | 100.4 | 98.5 | 98.7 | 102.6 | 101.5 | 140.4 |
| 12500 | 83.6 | 86.6 | 87.5 | 89.4 | 91.0 | 92.1 | 94.7 | 96.1 | 97.5 | 96.6 | 96.5 | 100.4 | 100.0 | 138.8 |
| 16000 | 82.4 | 84.9 | 86.1 | 88.0 | 89.5 | 90.6 | 93.5 | 93.3 | 96.3 | 94.8 | 94.9 | 99.7 | 99.4 | 138.2 |
| 20000 | 79.1 | 82.1 | 83.7 | 85.4 | 88.1 | 87.5 | 90.9 | 89.7 | 92.5 | 89.5 | 90.2 | 93.1 | 95.2 | 135.1 |
| 25000 | 77.1 | 79.6 | 80.8 | 82.6 | 84.6 | 84.5 | 85.6 | 85.9 | 88.5 | 85.2 | 87.7 | 87.6 | 89.6 | 132.5 |
| 31500 | 75.1 | 77.7 | 80.1 | 82.0 | 84.3 | 83.3 | 85.5 | 83.8 | 84.6 | 81.4 | 82.9 | 86.3 | 86.5 | 132.6 |
| 40000 | 70.7 | 74.5 | 77.4 | 79.7 | 80.5 | 81.5 | 83.3 | 81.4 | 81.4 | 78.3 | 78.3 | 82.0 | 82.1 | 132.8 |
| 50000 | 64.6 | 69.2 | 73.2 | 74.7 | 74.6 | 76.2 | 77.7 | 76.7 | 76.0 | 71.7 | 72.3 | 74.1 | 75.4 | 131.5 |
| 63000 | 59.9 | 62.9 | 67.2 | 66.2 | 65.7 | 66.9 | 67.4 | 67.0 | 67.3 | 65.1 | 65.9 | 67.1 | 68.4 | 129.4 |
| 80000 | 57.3 | 60.0 | 66.2 | 63.0 | 61.4 | 62.6 | 63.2 | 59.0 | 60.2 | 60.5 | 60.5 | 63.4 | 65.3 | 134.6 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 102.7 | 103.8 | 104.2 | 105.3 | 106.4 | 107.4 | 109.1 | 111.3 | 113.7 | 116.0 | 119.3 | 122.7 | 126.0 | 157.2 |
| PNOB | 116.3 | 117.4 | 117.7 | 118.5 | 119.5 | 120.2 | 121.6 | 124.0 | 126.5 | 129.1 | 132.0 | 135.0 | 132.7 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 541 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-190cm²(29.4in²) SIZE

| RDG. NO. | NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM., DAY - JENOTS) 5.5 | | | | |
|--------------------|--------|---|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. |
| 50 | | 83.2 | 83.2 | 84.7 | 86.8 | 87.1 |
| 63 | | 82.0 | 84.8 | 86.5 | 87.1 | 87.4 |
| 80 | | 83.1 | 87.9 | 86.9 | 88.2 | 90.8 |
| 100 | | 85.4 | 86.9 | 88.9 | 89.2 | 90.3 |
| 125 | | 86.0 | 87.0 | 88.5 | 89.3 | 90.4 |
| 160 | | 87.3 | 88.6 | 89.6 | 90.6 | 92.5 |
| 200 | | 89.1 | 90.1 | 90.4 | 92.2 | 94.3 |
| 250 | | 91.9 | 92.4 | 92.4 | 93.2 | 94.3 |
| 315 | | 91.0 | 92.3 | 93.3 | 93.8 | 94.2 |
| 400 | | 90.9 | 92.9 | 92.7 | 93.4 | 94.8 |
| 500 | | 92.7 | 93.5 | 94.5 | 94.5 | 95.3 |
| 630 | | 96.0 | 95.1 | 94.9 | 95.7 | 96.6 |
| 800 | | 95.3 | 96.1 | 96.1 | 96.6 | 97.2 |
| 1000 | | 93.3 | 94.4 | 94.7 | 96.2 | 96.8 |
| 1250 | | 92.2 | 93.3 | 93.8 | 95.1 | 95.7 |
| 1600 | | 90.6 | 92.4 | 93.2 | 94.5 | 95.8 |
| 2000 | | 89.0 | 90.4 | 91.7 | 93.7 | 95.5 |
| 2500 | | 87.8 | 90.2 | 90.6 | 92.3 | 95.6 |
| 3150 | | 85.2 | 83.3 | 89.1 | 91.1 | 92.7 |
| 4000 | | 84.5 | 87.0 | 88.2 | 90.1 | 92.8 |
| 5000 | | 82.0 | 85.1 | 86.7 | 88.3 | 91.1 |
| 6300 | | 81.0 | 83.5 | 84.6 | 86.5 | 88.4 |
| 8000 | | 80.3 | 82.8 | 85.2 | 87.2 | 89.5 |
| 10000 | | 77.9 | 81.7 | 84.6 | 86.8 | 87.7 |
| 12500 | | 74.2 | 78.8 | 82.8 | 84.4 | 84.2 |
| 16000 | | 72.8 | 75.8 | 80.2 | 79.1 | 78.6 |
| 20000 | | 75.7 | 78.3 | 84.5 | 81.4 | 79.8 |
| OVERALL CALCULATED | | 103.7 | 104.7 | 105.2 | 106.3 | 107.5 |
| PNUB | | 113.4 | 115.2 | 115.9 | 117.4 | 119.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION *5* TEST POINT *541* ACOUSTIC RANGE *45.7m(150ft.)* ARC
 SIZE *FULL-.33m²(513in²)*

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN(S)) | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | (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.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| FREQ. | | 50 | 55.0 | 56.6 | 59.2 | 62.0 | 65.7 | 64.7 | 66.7 | 68.7 | 71.2 | 73.3 | 76.8 | 75.1 |
| NO EGA | | 63 | 53.8 | 58.1 | 61.0 | 62.2 | 63.0 | 67.5 | 69.0 | 69.7 | 72.2 | 77.3 | 78.5 | 76.3 |
| SIDELINE 2400. FT. | | 80 | 54.3 | 61.1 | 61.2 | 63.5 | 67.3 | 68.0 | 69.8 | 71.5 | 75.0 | 79.3 | 81.0 | 77.9 |
| (731.52 M) | | 100 | 56.9 | 60.1 | 63.2 | 64.2 | 65.8 | 68.0 | 70.2 | 72.7 | 76.7 | 81.5 | 82.4 | 78.0 |
| NFA (1. RPM) | | 125 | 57.4 | 60.1 | 62.7 | 64.2 | 65.7 | 68.0 | 69.0 | 71.2 | 73.4 | 78.6 | 82.2 | 83.3 |
| NFK (0. RPM/SEC) | | 160 | 58.6 | 61.5 | 63.7 | 65.5 | 67.7 | 68.7 | 70.5 | 74.7 | 78.6 | 82.1 | 83.9 | 78.0 |
| NFD (0. RAD/SEC) | | 250 | 60.1 | 62.9 | 64.3 | 66.8 | 68.6 | 70.1 | 71.1 | 73.6 | 75.8 | 78.9 | 82.2 | 83.6 |
| (7500. RPM) | | 315 | 61.4 | 64.5 | 66.8 | 68.1 | 68.9 | 71.2 | 72.4 | 74.9 | 76.5 | 78.6 | 79.3 | 81.0 |
| (785. RAD/SEC) | | 400 | 60.9 | 64.8 | 65.8 | 67.4 | 69.2 | 71.0 | 72.2 | 74.2 | 76.6 | 77.6 | 77.7 | 78.6 |
| AIRFLOW RATIO | | 500 | 62.1 | 64.4 | 66.2 | 68.1 | 69.5 | 70.5 | 72.5 | 74.9 | 76.2 | 77.5 | 76.2 | 76.7 |
| WF/WM 4.18 | | 630 | 64.8 | 65.9 | 67.4 | 68.0 | 69.4 | 70.4 | 72.1 | 74.5 | 75.9 | 75.8 | 74.4 | 74.7 |
| VEHICLE CELL41 | | 800 | 63.2 | 66.2 | 67.7 | 69.2 | 70.3 | 70.4 | 71.6 | 73.7 | 75.5 | 74.8 | 73.5 | 72.3 |
| CONFIG NC54 | | 1000 | 60.2 | 63.6 | 65.5 | 68.0 | 69.2 | 70.0 | 70.7 | 72.8 | 74.2 | 73.8 | 71.0 | 69.2 |
| LOC C41 ANECH CH | | 1250 | 57.7 | 61.4 | 63.6 | 66.0 | 67.2 | 68.8 | 70.0 | 72.0 | 72.4 | 70.8 | 68.3 | 66.8 |
| DATE 06-11-76 | | 1600 | 54.1 | 58.9 | 61.6 | 64.1 | 66.1 | 68.0 | 69.9 | 70.6 | 71.4 | 68.6 | 66.0 | 64.7 |
| RUN CONF5HIGHFLW | | 2000 | 50.2 | 54.9 | 58.4 | 61.8 | 64.3 | 65.9 | 68.3 | 68.5 | 69.1 | 66.4 | 62.4 | 60.1 |
| TAPE X05410 | | 2500 | 45.7 | 52.0 | 54.8 | 58.1 | 62.3 | 62.7 | 64.3 | 65.6 | 66.1 | 61.7 | 58.0 | 55.4 |
| FAN TIP SPEED FT/SEC | | 3150 | 37.7 | 45.5 | 49.5 | 53.3 | 55.9 | 57.4 | 59.7 | 60.0 | 59.5 | 55.6 | 50.7 | 40.5 |
| | | 4000 | 28.9 | 37.6 | 42.6 | 46.9 | 49.8 | 51.3 | 53.8 | 52.2 | 52.9 | 47.5 | 41.5 | 35.8 |
| | | 5000 | 21.7 | 31.7 | 37.7 | 42.0 | 46.2 | 46.0 | 49.0 | 46.3 | 46.5 | 39.2 | 32.8 | 23.9 |
| | | 6300 | 6.9 | 18.7 | 25.6 | 30.9 | 34.8 | 35.4 | 35.8 | 34.3 | 33.3 | 24.3 | 17.6 | 1.5 |
| | | 8000 | | 0.5 | 10.7 | 17.5 | 22.3 | 22.1 | 23.5 | 19.2 | 15.3 | 4.2 | | |
| | | 10000 | | | | 1.8 | 3.9 | 4.5 | | | | | | |
| | | 12500 | | | | | | | | | | | | |
| | | 16000 | | | | | | | | | | | | |
| | | 20000 | | | | | | | | | | | | |
| OVERALL CALCULATED | | | 72.3 | 75.1 | 76.9 | 78.7 | 80.2 | 81.5 | 82.9 | 84.9 | 86.6 | 88.5 | 90.7 | 91.9 |
| PND8 | | | 77.7 | 80.7 | 82.8 | 85.2 | 87.2 | 88.6 | 90.5 | 91.7 | 92.8 | 93.1 | 93.8 | 94.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION *5* TEST POINT *54* ACOUSTIC RANGE *731.5m(2400ft.)* SIDELINE *FULL-.33m²(513in²)* SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 25 HR. 21.8

| RDG. NO. | NO EGA | RADIOAL (12. M) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWT | HACT | FREQ. | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | PWL | |
|--------------------|--------|-----------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|------------|------------|---|------------|------------|-------|-------------|
| | | | | | | | | | | | | | | 40. (0.70) | 50. (0.87) | 60. (1.05) | 70. (1.22) | 80. (1.40) | 90. (1.57) | | 100. (1.75) |
| 63 | | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | | |
| 100 | 83.9 | 92.7 | 89.9 | 91.7 | 92.5 | 91.7 | 93.0 | 93.5 | 94.4 | 95.7 | 95.7 | 99.2 | 100.4 | 103.2 | 94.4 | 93.4 | 92.2 | 100.9 | 103.3 | 104.1 | 137.5 |
| 125 | 81.8 | 86.6 | 87.1 | 89.9 | 91.5 | 92.9 | 93.2 | 94.4 | 93.4 | 92.2 | 94.4 | 93.4 | 92.2 | 100.9 | 96.7 | 96.7 | 101.9 | 104.1 | 106.4 | 133.2 | |
| 160 | 82.1 | 84.2 | 88.2 | 88.2 | 88.5 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 136.9 |
| 200 | 84.5 | 85.0 | 86.5 | 87.6 | 88.4 | 89.3 | 90.9 | 92.8 | 95.8 | 99.6 | 92.8 | 92.8 | 92.8 | 103.6 | 95.8 | 95.8 | 103.6 | 108.3 | 110.0 | 142.1 | |
| 250 | 83.1 | 86.3 | 88.1 | 88.1 | 89.2 | 90.1 | 92.7 | 94.9 | 96.3 | 100.9 | 92.7 | 94.9 | 96.3 | 103.6 | 96.3 | 96.3 | 103.6 | 111.3 | 112.6 | 144.9 | |
| 315 | 84.4 | 85.2 | 87.4 | 89.5 | 91.8 | 92.9 | 93.8 | 95.7 | 97.9 | 100.0 | 93.8 | 95.7 | 97.9 | 107.9 | 97.9 | 97.9 | 107.9 | 113.9 | 113.9 | 146.9 | |
| 400 | 86.9 | 88.5 | 90.2 | 90.0 | 91.3 | 92.7 | 93.6 | 95.0 | 97.0 | 99.5 | 93.6 | 95.0 | 97.0 | 112.0 | 99.5 | 99.5 | 112.0 | 115.2 | 114.2 | 148.2 | |
| 500 | 87.3 | 88.5 | 89.8 | 90.6 | 91.7 | 93.5 | 94.9 | 97.1 | 100.5 | 107.1 | 93.5 | 94.9 | 97.1 | 113.3 | 100.5 | 107.1 | 113.3 | 116.5 | 114.8 | 149.4 | |
| 630 | 88.9 | 90.4 | 90.6 | 92.2 | 93.5 | 94.4 | 96.3 | 98.4 | 102.1 | 107.7 | 94.4 | 96.3 | 98.4 | 114.9 | 102.1 | 107.7 | 114.9 | 116.2 | 115.1 | 150.3 | |
| 800 | 90.9 | 91.4 | 92.4 | 93.5 | 94.5 | 95.7 | 97.0 | 98.6 | 101.0 | 104.2 | 95.7 | 97.0 | 98.6 | 116.5 | 101.0 | 104.2 | 108.6 | 116.5 | 116.5 | 151.0 | |
| 1000 | 94.0 | 95.0 | 95.5 | 96.1 | 96.7 | 97.0 | 98.3 | 99.5 | 102.4 | 104.6 | 97.0 | 98.3 | 99.5 | 115.6 | 102.4 | 104.6 | 108.6 | 115.6 | 115.6 | 150.6 | |
| 1250 | 96.3 | 96.8 | 96.3 | 96.4 | 96.7 | 97.1 | 98.3 | 99.3 | 101.2 | 105.4 | 98.3 | 99.3 | 101.2 | 115.2 | 101.2 | 105.4 | 108.3 | 112.2 | 112.2 | 150.6 | |
| 1600 | 107.9 | 104.7 | 101.4 | 98.7 | 97.1 | 98.9 | 99.3 | 101.2 | 105.4 | 108.3 | 99.3 | 101.2 | 105.4 | 115.2 | 101.2 | 105.4 | 108.3 | 112.2 | 112.2 | 150.6 | |
| 2000 | 110.2 | 109.2 | 108.0 | 106.0 | 101.4 | 99.2 | 100.1 | 102.5 | 105.3 | 108.3 | 100.1 | 102.5 | 105.3 | 115.2 | 102.5 | 105.3 | 108.3 | 112.2 | 112.2 | 150.8 | |
| 2500 | 108.3 | 108.8 | 109.1 | 109.6 | 108.0 | 103.6 | 101.5 | 103.6 | 105.4 | 107.2 | 103.6 | 101.5 | 103.6 | 110.8 | 103.6 | 105.4 | 107.2 | 110.1 | 113.8 | 150.6 | |
| 3150 | 104.8 | 105.3 | 106.6 | 107.6 | 109.7 | 108.8 | 105.0 | 103.6 | 105.6 | 106.9 | 108.8 | 105.0 | 103.6 | 109.6 | 105.6 | 106.9 | 110.1 | 112.3 | 109.6 | 150.2 | |
| 4000 | 103.8 | 103.4 | 103.9 | 104.2 | 105.5 | 107.4 | 107.5 | 105.9 | 105.6 | 106.2 | 107.5 | 105.9 | 105.6 | 107.6 | 105.6 | 106.2 | 108.9 | 110.6 | 107.6 | 149.0 | |
| 5000 | 101.9 | 102.2 | 103.5 | 104.8 | 103.6 | 104.5 | 106.6 | 108.0 | 106.5 | 105.6 | 108.0 | 106.6 | 108.0 | 107.0 | 106.5 | 105.6 | 108.3 | 109.2 | 107.0 | 148.5 | |
| 6300 | 100.0 | 100.8 | 102.1 | 102.6 | 104.2 | 104.6 | 105.4 | 107.9 | 108.4 | 104.7 | 105.4 | 107.9 | 108.4 | 106.1 | 105.4 | 107.9 | 108.4 | 107.7 | 108.5 | 148.2 | |
| 8000 | 98.5 | 98.6 | 99.4 | 101.4 | 103.3 | 103.9 | 105.5 | 106.4 | 108.4 | 105.1 | 105.5 | 106.4 | 108.4 | 105.1 | 105.5 | 106.4 | 108.4 | 107.1 | 105.4 | 147.7 | |
| 10000 | 96.2 | 97.8 | 98.1 | 100.1 | 102.2 | 101.8 | 103.7 | 104.9 | 106.9 | 104.6 | 103.7 | 104.9 | 106.9 | 104.5 | 103.7 | 104.9 | 106.9 | 104.5 | 104.5 | 146.7 | |
| 12500 | 93.3 | 95.1 | 96.2 | 97.2 | 99.0 | 100.1 | 102.0 | 102.3 | 103.5 | 101.2 | 102.0 | 102.3 | 103.5 | 101.2 | 102.0 | 102.3 | 103.5 | 101.2 | 101.2 | 144.7 | |
| 16000 | 91.7 | 92.9 | 94.1 | 96.0 | 98.3 | 97.9 | 100.1 | 99.6 | 102.6 | 98.6 | 97.9 | 100.1 | 99.6 | 101.5 | 99.6 | 102.6 | 98.6 | 101.5 | 103.0 | 143.8 | |
| 20000 | 88.4 | 89.4 | 91.3 | 92.9 | 95.7 | 94.8 | 97.9 | 95.8 | 98.3 | 95.1 | 94.8 | 97.9 | 95.8 | 99.2 | 95.1 | 96.0 | 99.2 | 98.3 | 94.8 | 141.3 | |
| 25000 | 84.7 | 87.0 | 87.6 | 89.7 | 91.4 | 91.4 | 92.7 | 92.6 | 95.4 | 90.8 | 91.4 | 92.7 | 92.6 | 94.6 | 95.4 | 90.8 | 94.6 | 94.7 | 94.8 | 139.2 | |
| 31500 | 82.8 | 84.6 | 87.0 | 88.0 | 89.7 | 88.9 | 91.1 | 89.8 | 91.1 | 87.2 | 91.1 | 89.8 | 91.1 | 92.5 | 89.8 | 91.1 | 87.2 | 90.1 | 94.5 | 92.5 | 136.9 |
| 40000 | 78.7 | 81.1 | 84.5 | 84.7 | 85.8 | 85.1 | 87.5 | 85.4 | 87.0 | 83.4 | 85.1 | 87.5 | 85.4 | 86.4 | 87.0 | 83.4 | 86.4 | 86.4 | 87.8 | 138.2 | |
| 50000 | 74.4 | 77.1 | 80.6 | 79.9 | 79.0 | 79.8 | 80.3 | 79.0 | 80.6 | 76.2 | 80.3 | 79.0 | 80.6 | 81.3 | 80.6 | 76.2 | 81.3 | 81.3 | 81.3 | 136.6 | |
| 63000 | 70.3 | 72.1 | 77.0 | 74.9 | 74.4 | 73.8 | 74.2 | 71.7 | 74.1 | 69.2 | 74.2 | 71.7 | 74.1 | 73.9 | 74.1 | 69.2 | 76.7 | 76.1 | 73.9 | 137.3 | |
| 80000 | 67.8 | 70.6 | 76.4 | 72.9 | 72.0 | 72.2 | 72.3 | 65.6 | 68.9 | 63.8 | 72.3 | 65.6 | 68.9 | 70.2 | 68.9 | 63.8 | 73.8 | 70.0 | 70.2 | 144.1 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 115.3 | 114.9 | 114.9 | 115.2 | 115.3 | 115.0 | 115.3 | 116.2 | 117.8 | 119.3 | 116.2 | 117.8 | 119.3 | 123.9 | 116.2 | 117.8 | 119.3 | 123.9 | 127.3 | 125.7 | 162.1 |
| P:DB | 127.3 | 128.2 | 128.4 | 128.9 | 129.5 | 129.1 | 128.7 | 129.3 | 130.1 | 131.4 | 128.7 | 129.3 | 130.1 | 131.4 | 135.1 | 131.4 | 135.1 | 138.1 | 136.1 | 136.1 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 542 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-190cm²(29.4in²) SIZE

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE (46. M) | CONFIG NC54 | LOC C41 AWECH CH | DATE 06-11-76 | RUN CONFHIGHFLW | TAPE X35420 | BAR 29.3 HG | TAMB 84. DEG F | TWT 71. DEG F | HACT15.21 GM/M3 | FREQ. SHIFT | JET 6 | DIAMETER RATIO | DF/DM 4.18 | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | PWL |
|--------------------|--------|------------------|-----------------|-------------|------------------|---------------|-----------------|-------------|-------------|----------------|---------------|-----------------|-------------|-------|----------------|------------|---|-------|-------|-------|-------|
| | | | | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 85.5 | 86.0 | 87.5 | 88.5 | 89.4 | 90.2 | 91.9 | 93.8 | 96.7 | 100.6 | 104.5 | 109.2 | 114.3 | 119.5 | 125.2 | 131.2 | 137.5 | 144.5 | 152.5 | 161.8 | |
| 60 | 85.4 | 86.0 | 87.3 | 88.5 | 89.4 | 90.2 | 91.9 | 93.8 | 96.7 | 100.6 | 104.5 | 109.2 | 114.3 | 119.5 | 125.2 | 131.2 | 137.5 | 144.5 | 152.5 | 161.8 | |
| 80 | 85.4 | 86.0 | 87.3 | 88.5 | 89.4 | 90.2 | 91.9 | 93.8 | 96.7 | 100.6 | 104.5 | 109.2 | 114.3 | 119.5 | 125.2 | 131.2 | 137.5 | 144.5 | 152.5 | 161.8 | |
| 100 | 87.9 | 89.4 | 91.2 | 90.4 | 92.8 | 93.9 | 94.8 | 96.7 | 98.9 | 103.9 | 110.7 | 114.8 | 114.9 | 115.2 | 115.7 | 116.7 | 117.4 | 117.4 | 117.4 | 117.4 | 117.4 |
| 125 | 88.2 | 89.5 | 90.7 | 91.5 | 92.6 | 94.5 | 95.9 | 98.0 | 101.5 | 108.1 | 114.3 | 117.5 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 | 115.7 |
| 160 | 89.8 | 91.3 | 91.6 | 93.1 | 94.5 | 95.6 | 97.2 | 99.4 | 103.1 | 108.7 | 115.1 | 118.6 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 |
| 205 | 91.8 | 92.4 | 93.4 | 94.4 | 95.5 | 96.6 | 97.9 | 99.6 | 102.0 | 105.2 | 109.5 | 115.0 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 |
| 250 | 94.9 | 95.9 | 96.4 | 96.5 | 97.1 | 97.9 | 99.6 | 102.0 | 105.2 | 109.5 | 115.0 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 |
| 315 | 97.2 | 97.8 | 97.3 | 97.3 | 97.7 | 99.3 | 100.4 | 103.3 | 105.5 | 109.6 | 114.3 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 |
| 400 | 108.9 | 105.6 | 102.4 | 99.7 | 98.0 | 99.9 | 100.3 | 102.2 | 106.4 | 109.2 | 113.2 | 118.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 |
| 500 | 111.1 | 110.2 | 109.0 | 107.0 | 102.3 | 100.2 | 101.1 | 103.5 | 106.2 | 109.3 | 112.0 | 117.2 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 |
| 630 | 109.3 | 109.8 | 110.1 | 110.6 | 108.9 | 104.6 | 102.4 | 104.1 | 106.3 | 108.2 | 111.1 | 114.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 |
| 800 | 105.8 | 106.3 | 107.6 | 108.6 | 110.7 | 109.8 | 105.9 | 104.6 | 106.6 | 107.9 | 111.1 | 113.3 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 |
| 1000 | 104.8 | 104.4 | 104.9 | 105.2 | 106.5 | 108.4 | 108.5 | 106.9 | 106.7 | 107.3 | 110.0 | 111.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 |
| 1250 | 103.0 | 103.3 | 104.6 | 105.8 | 104.7 | 105.5 | 107.7 | 109.1 | 107.6 | 106.7 | 109.3 | 110.2 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 |
| 1600 | 101.1 | 101.9 | 103.2 | 103.7 | 105.3 | 105.7 | 106.5 | 109.0 | 109.5 | 105.8 | 108.8 | 109.6 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 |
| 2000 | 99.6 | 99.8 | 100.7 | 102.7 | 104.5 | 105.1 | 106.7 | 107.7 | 109.7 | 106.3 | 108.0 | 108.3 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 | 106.6 |
| 2500 | 97.6 | 99.2 | 99.6 | 101.6 | 103.6 | 103.2 | 105.1 | 106.3 | 108.3 | 106.0 | 106.6 | 107.7 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 |
| 3150 | 95.0 | 96.8 | 97.9 | 98.9 | 100.7 | 101.8 | 103.7 | 104.0 | 105.2 | 102.9 | 104.7 | 106.1 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 |
| 4000 | 93.8 | 95.1 | 96.2 | 98.2 | 100.5 | 100.5 | 102.2 | 101.7 | 104.7 | 100.8 | 103.6 | 105.1 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 |
| 5000 | 91.3 | 92.4 | 94.3 | 95.9 | 98.7 | 97.8 | 100.9 | 98.7 | 101.3 | 98.1 | 99.0 | 102.1 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 |
| 6300 | 88.6 | 90.9 | 91.5 | 93.6 | 95.3 | 95.3 | 96.5 | 96.4 | 99.3 | 94.7 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |
| 8000 | 87.9 | 89.8 | 92.2 | 93.1 | 94.9 | 94.1 | 96.3 | 94.9 | 96.2 | 92.3 | 95.3 | 99.7 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 |
| 10000 | 85.9 | 88.2 | 91.6 | 91.9 | 92.9 | 92.2 | 94.7 | 92.6 | 94.1 | 90.5 | 93.6 | 97.2 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 |
| 12500 | 84.0 | 86.7 | 90.2 | 89.5 | 88.6 | 89.4 | 89.9 | 88.7 | 90.3 | 85.8 | 91.4 | 93.4 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 |
| 16000 | 83.2 | 85.0 | 90.0 | 87.9 | 87.4 | 86.8 | 87.1 | 84.6 | 87.0 | 82.2 | 89.7 | 89.1 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 |
| 20000 | 86.2 | 88.9 | 94.7 | 91.3 | 90.4 | 90.5 | 90.7 | 83.9 | 87.2 | 82.1 | 92.1 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 |
| OVERALL CALCULATED | 116.3 | 115.9 | 116.0 | 116.2 | 116.5 | 116.2 | 116.5 | 117.4 | 118.9 | 120.3 | 124.8 | 128.2 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 |
| PNDB | 124.5 | 124.6 | 125.0 | 125.8 | 127.1 | 127.0 | 128.4 | 129.3 | 131.2 | 130.4 | 133.0 | 135.5 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 542 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-33m²(513in²)

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RAD/SEC) | NFK
(1. RPM) | NFD
(0. RAD/SEC) | AIRFLOW RATIO
WF/W 4.18 | VEHICLE
CONFIG NC54 | LOC C41 ANECH CH | DATE 06-11-76 | RUN CONF5HIGHFLW | TAPE X05420 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------------------------------|----------------------|------------------|----------------------|----------------------------|------------------------|------------------|---------------|------------------|-------------|-------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| | | | | | | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | | | | | |
| 50 | 57.3 | 59.4 | 62.0 | 63.7 | 65.0 | 66.0 | 67.5 | 69.0 | 71.2 | 73.9 | 76.3 | 78.8 | 81.1 | 83.2 | 85.3 | 87.4 | 89.7 | 91.7 | 93.7 | 95.1 | 96.1 | 96.7 | 97.4 | 97.9 | 98.5 | 99.1 | 92.5 | | | | | | | |
| 63 | 55.8 | 60.6 | 63.5 | 64.2 | 65.7 | 66.7 | 69.2 | 71.0 | 71.7 | 75.2 | 80.6 | 81.7 | 82.3 | 84.2 | 86.2 | 87.7 | 89.7 | 91.7 | 93.7 | 95.1 | 96.1 | 96.7 | 97.4 | 97.9 | 98.5 | 99.1 | 92.5 | | | | | | | |
| 80 | 57.0 | 63.4 | 62.7 | 65.5 | 68.3 | 69.5 | 70.3 | 71.8 | 73.2 | 77.2 | 82.3 | 84.2 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | | | | | | |
| 100 | 59.4 | 62.6 | 65.5 | 66.0 | 67.7 | 69.3 | 70.0 | 73.0 | 74.7 | 79.9 | 84.5 | 85.4 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | | | | | | |
| 125 | 59.6 | 62.6 | 64.9 | 66.5 | 68.0 | 70.0 | 71.2 | 73.0 | 75.7 | 81.1 | 85.7 | 86.5 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | | | | | | |
| 160 | 61.1 | 64.3 | 65.7 | 68.0 | 69.7 | 70.7 | 72.5 | 74.2 | 77.2 | 81.6 | 86.4 | 87.4 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | | | | | | |
| 200 | 62.9 | 65.1 | 67.3 | 69.1 | 70.6 | 71.9 | 73.6 | 75.6 | 78.5 | 82.2 | 86.9 | 87.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | | | | | |
| 250 | 65.7 | 68.5 | 70.2 | 71.0 | 72.0 | 73.0 | 74.5 | 76.5 | 78.9 | 82.0 | 85.8 | 86.1 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | | | | | |
| 315 | 67.7 | 70.0 | 70.8 | 71.6 | 72.4 | 74.2 | 75.2 | 77.6 | 79.0 | 81.9 | 84.8 | 85.5 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | | | | | |
| 400 | 78.9 | 77.5 | 75.6 | 73.7 | 72.5 | 74.5 | 74.7 | 76.2 | 79.6 | 81.1 | 83.2 | 85.3 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | | | | |
| 500 | 80.6 | 81.6 | 81.7 | 80.6 | 76.5 | 74.5 | 75.2 | 77.1 | 79.0 | 80.7 | 81.5 | 83.7 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | | | | |
| 630 | 78.1 | 80.7 | 82.3 | 83.8 | 82.6 | 78.4 | 76.1 | 77.3 | 78.6 | 79.0 | 79.9 | 80.4 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1 | | | | |
| 800 | 73.6 | 76.4 | 79.2 | 81.2 | 83.8 | 83.1 | 79.1 | 77.2 | 78.2 | 78.0 | 79.0 | 77.7 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | | | | |
| 1000 | 71.0 | 73.6 | 75.7 | 77.0 | 78.9 | 81.0 | 80.9 | 78.8 | 77.5 | 76.5 | 76.8 | 74.7 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | | | | |
| 1250 | 68.4 | 71.4 | 74.4 | 76.8 | 76.2 | 77.3 | 79.2 | 80.0 | 77.4 | 74.7 | 72.3 | 68.4 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | | | | |
| 1600 | 64.6 | 68.4 | 71.6 | 73.4 | 75.6 | 76.2 | 76.9 | 78.6 | 77.9 | 72.3 | 72.3 | 68.4 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | | | | |
| 2000 | 61.0 | 64.4 | 67.4 | 70.7 | 73.3 | 74.2 | 75.6 | 75.7 | 76.4 | 70.9 | 69.2 | 64.1 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | | | | |
| 2500 | 55.5 | 61.0 | 63.8 | 67.4 | 70.3 | 70.2 | 71.8 | 72.1 | 72.6 | 67.7 | 64.5 | 59.2 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | | | | |
| 3150 | 47.5 | 54.0 | 58.2 | 61.1 | 63.9 | 65.4 | 66.9 | 66.2 | 65.5 | 60.1 | 57.2 | 50.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | | | | |
| 4000 | 38.2 | 45.6 | 50.7 | 55.0 | 58.6 | 58.6 | 60.3 | 58.5 | 59.2 | 51.3 | 48.0 | 39.1 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | | | |
| 5000 | 31.0 | 39.1 | 45.3 | 49.6 | 53.8 | 53.3 | 56.0 | 52.4 | 52.3 | 44.7 | 38.7 | 30.0 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | | | |
| 6300 | 14.5 | 26.1 | 32.4 | 38.0 | 41.6 | 42.2 | 42.9 | 40.9 | 40.2 | 29.9 | 24.4 | 8.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| 8000 | 7.4 | 17.7 | 23.4 | 27.8 | 29.2 | 27.8 | 29.2 | 25.2 | 25.2 | 21.7 | 10.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| 10000 | | | | | | 7.4 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | 7.0 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | 7.4 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20000 | | | | | | 7.4 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 85.1 | 86.4 | 87.6 | 88.5 | 88.8 | 88.5 | 88.1 | 88.7 | 89.7 | 91.7 | 95.1 | 96.1 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | | |
| F.L.B | 90.4 | 92.4 | 93.9 | 95.5 | 96.2 | 96.2 | 96.7 | 97.4 | 97.9 | 96.7 | 98.8 | 99.1 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 542 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| | | PRC. DATE - MONTH 8 DAY 25 HR. 21.8 | | | | | | | | | | | | | |
|--------------------|----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| | | (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.) |
| FREQ. | 50 | 79.9 | 88.7 | 86.2 | 87.7 | 88.3 | 88.4 | 88.5 | 90.0 | 90.7 | 92.0 | 96.2 | 95.9 | 98.9 | 133.7 |
| | 63 | 77.8 | 83.6 | 83.6 | 85.9 | 87.7 | 88.9 | 89.5 | 90.2 | 89.4 | 88.9 | 96.9 | 99.1 | 99.9 | 134.2 |
| | 80 | 78.1 | 81.2 | 84.7 | 84.7 | 85.3 | 85.7 | 85.5 | 87.5 | 88.7 | 95.2 | 98.4 | 99.9 | 101.9 | 135.0 |
| VEHICLE | CELL41 | 81.3 | 81.8 | 83.5 | 84.8 | 85.4 | 86.0 | 87.7 | 89.6 | 92.3 | 98.4 | 99.5 | 104.5 | 106.0 | 138.4 |
| CONFIG | NCS4 | 80.3 | 82.8 | 84.6 | 85.1 | 85.7 | 87.1 | 89.7 | 91.6 | 93.3 | 97.7 | 103.9 | 106.8 | 107.5 | 140.6 |
| LOC | C41 ANECH CH | 81.7 | 85.9 | 84.4 | 86.2 | 88.8 | 89.7 | 90.8 | 92.5 | 95.4 | 99.8 | 105.5 | 108.6 | 109.2 | 142.3 |
| DATE | 06-11-76 | 83.9 | 85.5 | 87.2 | 87.5 | 88.6 | 89.7 | 90.8 | 94.0 | 96.7 | 102.3 | 108.0 | 110.7 | 109.5 | 144.0 |
| RUN | CONF5HGHFLW | 83.8 | 85.0 | 86.3 | 87.3 | 88.7 | 90.5 | 92.4 | 94.3 | 97.8 | 103.6 | 107.8 | 110.8 | 109.5 | 144.2 |
| TAPE | X05430 | 85.4 | 86.6 | 87.6 | 88.9 | 90.3 | 91.4 | 93.5 | 95.9 | 99.4 | 104.0 | 107.2 | 110.1 | 109.1 | 143.9 |
| BAR | 29.3 HG | 86.6 | 87.9 | 88.9 | 90.5 | 91.8 | 93.2 | 94.3 | 97.0 | 100.2 | 104.5 | 107.2 | 109.1 | 108.9 | 143.8 |
| TAHB | 38. DEG F | 88.2 | 89.5 | 90.5 | 91.0 | 92.4 | 94.2 | 95.6 | 98.0 | 100.8 | 104.3 | 106.0 | 106.7 | 107.5 | 142.9 |
| | (304. DEG K) | 89.3 | 91.3 | 91.6 | 92.5 | 94.1 | 96.0 | 98.6 | 101.1 | 104.2 | 105.4 | 106.5 | 106.8 | 106.8 | 142.7 |
| TWET | 74. DEG F | 90.2 | 92.2 | 92.2 | 93.3 | 94.9 | 95.6 | 98.2 | 101.7 | 104.0 | 105.2 | 106.2 | 106.4 | 106.4 | 142.6 |
| | (296. DEG K) | 90.0 | 91.0 | 92.0 | 93.6 | 95.0 | 96.9 | 99.3 | 102.0 | 104.3 | 104.3 | 105.5 | 105.7 | 105.7 | 142.5 |
| HACT | 16.81 GM/M3 | 89.9 | 91.1 | 92.6 | 93.5 | 94.9 | 97.0 | 99.6 | 102.4 | 103.7 | 103.7 | 105.6 | 105.4 | 105.4 | 142.3 |
| | (.01681 KG/M3) | 89.0 | 90.6 | 91.1 | 92.4 | 94.2 | 95.1 | 96.7 | 99.4 | 102.9 | 103.5 | 103.9 | 105.6 | 105.1 | 142.4 |
| FREQ. SHIFT | 4000 | 87.6 | 88.9 | 90.7 | 91.9 | 93.5 | 94.6 | 96.8 | 100.2 | 101.9 | 103.3 | 102.7 | 105.1 | 103.1 | 141.9 |
| JET | 0 | 87.4 | 88.8 | 89.3 | 91.8 | 92.6 | 95.0 | 96.1 | 99.3 | 101.5 | 101.4 | 102.8 | 104.5 | 103.8 | 141.4 |
| DIAMETER RATIO | 6390 | 85.2 | 88.6 | 89.9 | 91.1 | 93.5 | 95.1 | 97.2 | 99.9 | 101.4 | 101.5 | 102.2 | 104.1 | 102.8 | 141.3 |
| DF/DM | 1.0C | 85.3 | 86.9 | 88.7 | 90.2 | 93.0 | 94.9 | 97.0 | 98.4 | 100.4 | 100.8 | 101.0 | 103.1 | 101.9 | 140.8 |
| | 8000 | 82.9 | 86.5 | 87.6 | 89.6 | 92.2 | 92.8 | 95.4 | 97.9 | 99.9 | 99.0 | 99.7 | 102.8 | 101.3 | 140.2 |
| | 12500 | 80.1 | 84.3 | 86.0 | 87.9 | 89.7 | 91.1 | 94.0 | 95.3 | 97.7 | 96.9 | 97.3 | 100.1 | 99.6 | 139.4 |
| | 16000 | 78.1 | 82.1 | 84.1 | 86.5 | 88.5 | 89.9 | 92.8 | 93.1 | 96.6 | 94.8 | 95.4 | 98.5 | 97.6 | 137.6 |
| | 20000 | 74.6 | 79.1 | 81.5 | 83.4 | 86.6 | 86.5 | 89.6 | 89.2 | 92.5 | 90.3 | 91.4 | 94.6 | 95.2 | 135.0 |
| | 25000 | 71.1 | 76.4 | 77.8 | 79.8 | 82.3 | 82.8 | 84.3 | 85.2 | 89.0 | 86.2 | 86.5 | 89.3 | 91.1 | 132.4 |
| | 31500 | 68.1 | 74.2 | 76.3 | 78.3 | 80.1 | 80.3 | 83.0 | 82.1 | 84.6 | 81.9 | 84.1 | 88.6 | 88.5 | 131.8 |
| | 40000 | 62.5 | 70.5 | 73.9 | 74.2 | 75.0 | 75.3 | 78.3 | 76.4 | 79.2 | 77.5 | 79.6 | 83.5 | 84.3 | 130.2 |
| | 50000 | 56.6 | 66.5 | 69.9 | 69.7 | 68.6 | 69.9 | 70.7 | 69.2 | 71.7 | 70.5 | 73.3 | 75.9 | 76.9 | 127.8 |
| | 63000 | 51.1 | 61.4 | 64.2 | 64.9 | 63.9 | 63.6 | 63.7 | 62.2 | 64.5 | 64.6 | 67.7 | 68.4 | 70.1 | 128.0 |
| | 80000 | 47.8 | 59.5 | 65.9 | 62.3 | 61.2 | 61.6 | 62.0 | 55.2 | 58.4 | 60.7 | 61.0 | 63.4 | 65.8 | 134.0 |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 99.3 | 101.2 | 102.3 | 103.5 | 105.1 | 106.5 | 108.3 | 110.6 | 113.2 | 115.4 | 117.7 | 119.9 | 119.6 | 155.3 |
| PND8 | | 112.4 | 114.1 | 115.0 | 116.3 | 117.9 | 119.1 | 120.8 | 123.5 | 126.1 | 127.7 | 129.0 | 130.9 | 130.6 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 543 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-190cm²(29.4in²)

| ROG. NO. | NO EGA | Q. | 40. | 50. | 60. | 70. | 30. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PUL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 82.2 | 82.7 | 84.5 | 85.8 | 86.4 | 86.7 | 87.0 | 88.6 | 90.5 | 92.5 | 93.2 | 97.3 | 100.8 | 105.5 | 107.0 | 150.8 |
| 63 | 81.3 | 83.8 | 35.5 | 86.1 | 86.7 | 88.0 | 90.7 | 92.6 | 94.3 | 98.6 | 94.3 | 98.6 | 104.8 | 107.7 | 108.5 | 153.0 |
| 80 | 82.6 | 86.9 | 85.4 | 87.2 | 89.8 | 90.4 | 91.8 | 93.4 | 96.4 | 100.7 | 96.4 | 100.7 | 106.4 | 109.6 | 110.1 | 154.7 |
| 100 | 84.9 | 86.4 | 88.2 | 88.5 | 89.5 | 90.7 | 91.8 | 95.0 | 97.7 | 103.2 | 97.7 | 103.2 | 108.9 | 111.6 | 110.4 | 156.4 |
| 125 | 84.7 | 86.0 | 87.2 | 88.3 | 89.6 | 91.5 | 93.4 | 95.0 | 98.7 | 104.6 | 98.7 | 104.6 | 108.8 | 111.7 | 110.5 | 156.4 |
| 160 | 86.3 | 87.6 | 88.6 | 89.9 | 91.2 | 92.3 | 94.5 | 96.9 | 100.3 | 104.9 | 100.3 | 104.9 | 108.1 | 111.1 | 110.1 | 156.4 |
| 200 | 87.6 | 88.9 | 89.9 | 91.4 | 92.7 | 94.1 | 95.2 | 97.9 | 101.1 | 105.4 | 97.9 | 101.1 | 105.4 | 108.1 | 109.9 | 156.2 |
| 250 | 89.2 | 90.4 | 91.4 | 92.0 | 93.3 | 95.2 | 96.6 | 99.0 | 101.7 | 105.3 | 99.0 | 101.7 | 105.3 | 107.0 | 108.4 | 155.3 |
| 315 | 89.0 | 90.3 | 92.3 | 92.6 | 93.4 | 95.0 | 96.9 | 99.6 | 102.0 | 105.1 | 99.6 | 102.0 | 105.1 | 106.3 | 107.8 | 155.1 |
| 400 | 89.6 | 91.1 | 91.2 | 92.7 | 94.3 | 95.9 | 96.5 | 99.2 | 102.7 | 105.0 | 99.2 | 102.7 | 105.0 | 106.2 | 107.1 | 155.0 |
| 500 | 89.7 | 90.9 | 92.0 | 93.0 | 94.6 | 95.9 | 97.8 | 100.2 | 103.0 | 105.3 | 100.2 | 103.0 | 105.3 | 106.4 | 106.7 | 154.9 |
| 630 | 89.5 | 90.8 | 92.1 | 93.6 | 94.5 | 95.8 | 98.0 | 100.6 | 103.8 | 104.7 | 100.6 | 103.8 | 104.7 | 106.6 | 106.3 | 154.8 |
| 800 | 90.0 | 91.6 | 92.1 | 93.4 | 94.5 | 95.6 | 97.8 | 101.2 | 102.9 | 104.3 | 101.2 | 102.9 | 104.3 | 103.7 | 106.1 | 154.8 |
| 1000 | 88.6 | 89.9 | 91.7 | 92.9 | 94.5 | 95.6 | 97.8 | 101.2 | 102.9 | 104.3 | 101.2 | 102.9 | 104.3 | 103.7 | 106.1 | 154.3 |
| 1250 | 88.5 | 89.8 | 91.3 | 92.8 | 93.7 | 96.0 | 97.2 | 100.3 | 102.6 | 102.6 | 100.3 | 102.6 | 102.6 | 103.3 | 105.2 | 153.8 |
| 1600 | 87.3 | 89.7 | 91.0 | 92.2 | 94.6 | 96.2 | 98.3 | 100.0 | 102.5 | 102.5 | 100.0 | 102.5 | 102.5 | 103.3 | 103.9 | 153.7 |
| 2000 | 86.5 | 88.1 | 89.9 | 91.4 | 94.2 | 96.1 | 98.2 | 99.7 | 101.7 | 103.1 | 99.7 | 101.7 | 103.1 | 102.2 | 104.4 | 153.2 |
| 2500 | 84.3 | 85.0 | 89.1 | 91.0 | 93.6 | 94.2 | 96.9 | 99.3 | 101.3 | 100.5 | 99.3 | 101.3 | 100.5 | 101.1 | 104.2 | 152.6 |
| 3150 | 81.7 | 86.0 | 87.6 | 89.6 | 91.4 | 92.8 | 95.7 | 97.0 | 99.4 | 98.6 | 97.0 | 99.4 | 98.6 | 99.0 | 101.8 | 150.8 |
| 4000 | 80.2 | 84.3 | 86.2 | 88.6 | 90.7 | 92.0 | 94.9 | 95.2 | 98.7 | 97.0 | 98.7 | 97.0 | 97.6 | 100.6 | 99.8 | 150.0 |
| 5000 | 77.5 | 82.1 | 84.5 | 86.3 | 89.6 | 89.4 | 92.6 | 92.2 | 95.5 | 93.3 | 95.5 | 93.3 | 94.4 | 97.6 | 98.2 | 147.4 |
| 6300 | 75.0 | 80.3 | 81.6 | 83.7 | 86.2 | 86.7 | 88.2 | 89.1 | 92.9 | 90.1 | 92.9 | 90.1 | 92.4 | 93.2 | 95.0 | 144.8 |
| 8000 | 73.3 | 79.3 | 81.5 | 83.5 | 85.2 | 85.4 | 88.1 | 87.2 | 89.8 | 87.1 | 89.8 | 87.1 | 89.3 | 93.7 | 93.7 | 144.2 |
| 10000 | 69.6 | 77.7 | 81.1 | 81.3 | 82.2 | 82.4 | 85.4 | 83.6 | 86.3 | 84.7 | 86.3 | 84.7 | 86.7 | 90.6 | 91.5 | 142.6 |
| 12500 | 66.2 | 76.1 | 79.6 | 79.4 | 78.2 | 79.5 | 80.3 | 78.8 | 81.3 | 80.1 | 82.9 | 80.1 | 82.9 | 85.5 | 86.6 | 140.2 |
| 16000 | 64.1 | 74.3 | 79.2 | 77.9 | 76.9 | 76.6 | 75.1 | 77.5 | 77.6 | 75.1 | 77.5 | 77.6 | 80.6 | 81.3 | 83.1 | 140.4 |
| 20000 | 66.2 | 77.8 | 84.3 | 80.6 | 79.5 | 79.9 | 80.3 | 73.6 | 76.8 | 79.1 | 79.4 | 81.7 | 84.2 | 81.7 | 84.2 | 146.4 |
| OVERALL CALCULATED | 100.2 | 102.0 | 103.2 | 104.5 | 106.1 | 107.4 | 109.3 | 111.6 | 114.3 | 116.4 | 118.5 | 120.8 | 120.5 | 125.9 | 128.9 | 167.6 |
| PH.8 | 109.9 | 112.7 | 114.0 | 115.7 | 117.7 | 118.7 | 121.0 | 123.0 | 125.5 | 125.9 | 127.1 | 129.6 | 128.9 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **543** ACOUSTIC RANGE **45.7m(150ft.)** ARC **5** SIZE **FULL-.33m²(513in²)**

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (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) |
| SIDELINE 2400. FT. | 54.0 | 56.1 | 59.0 | 61.0 | 62.0 | 62.7 | 64.2 | 65.7 | 67.7 | 70.7 | 72.6 | 75.0 | 73.1 |
| (731.52 ft) | 53.0 | 57.1 | 60.1 | 61.2 | 62.2 | 63.7 | 66.2 | 67.7 | 68.7 | 71.9 | 76.6 | 77.2 | 74.5 |
| NFA (1. RPM) | 54.5 | 60.1 | 59.7 | 62.3 | 65.3 | 66.0 | 67.3 | 68.5 | 70.7 | 74.0 | 78.1 | 79.0 | 75.9 |
| (0. RAD/SEC) | 56.4 | 59.0 | 62.5 | 63.5 | 65.0 | 66.3 | 67.3 | 70.0 | 72.0 | 76.4 | 80.5 | 80.9 | 76.0 |
| NFK (1. RPM) | 59.1 | 61.4 | 63.2 | 65.0 | 67.0 | 68.7 | 70.2 | 72.9 | 77.6 | 80.2 | 80.8 | 75.9 | 75.1 |
| (0. RAD/SEC) | 57.6 | 60.5 | 62.7 | 64.7 | 66.5 | 67.7 | 71.7 | 74.4 | 77.9 | 79.4 | 79.9 | 75.1 | 74.5 |
| NFD (7500. RPM) | 58.6 | 61.6 | 63.8 | 66.1 | 67.9 | 69.4 | 70.4 | 72.6 | 75.0 | 78.2 | 79.2 | 78.6 | 74.5 |
| (785. RAD/SEC) | 59.9 | 63.0 | 65.2 | 66.5 | 68.3 | 70.3 | 71.5 | 73.5 | 75.4 | 77.8 | 77.8 | 75.3 | 72.6 |
| AIRFLOW RATIO | 59.4 | 62.5 | 65.8 | 66.9 | 68.2 | 69.9 | 71.7 | 73.9 | 75.5 | 77.4 | 76.8 | 75.3 | 71.3 |
| WF/WM 4.18 | 59.6 | 63.0 | 64.3 | 66.9 | 68.7 | 70.2 | 72.0 | 73.9 | 75.8 | 76.9 | 76.2 | 74.3 | 70.0 |
| VEHICLE CELL41 | 59.1 | 62.4 | 64.7 | 66.6 | 68.7 | 70.2 | 72.0 | 73.9 | 75.7 | 76.7 | 74.7 | 72.9 | 68.3 |
| CONFIG NCS4 | 58.3 | 61.7 | 64.4 | 66.8 | 68.1 | 69.7 | 71.6 | 73.8 | 75.6 | 75.5 | 73.4 | 72.2 | 66.6 |
| LOC C41 ANECH CH | 57.9 | 61.7 | 63.7 | 65.9 | 68.3 | 69.4 | 70.8 | 72.9 | 75.5 | 74.6 | 72.8 | 71.0 | 64.6 |
| DATE 06-11-76 | 55.4 | 59.1 | 62.5 | 64.8 | 67.0 | 68.3 | 70.2 | 73.0 | 73.7 | 73.5 | 70.5 | 69.2 | 60.7 |
| RUN CONFHIGHFLW | 53.9 | 57.9 | 61.1 | 63.8 | 65.2 | 67.8 | 68.7 | 71.3 | 72.4 | 70.5 | 69.3 | 66.8 | 58.7 |
| TAPE X05430 | 50.9 | 56.1 | 59.4 | 61.9 | 64.9 | 66.7 | 68.6 | 69.6 | 70.9 | 69.1 | 66.8 | 63.9 | 54.1 |
| FAN TIP SPEED | 42.2 | 49.7 | 53.3 | 56.9 | 60.3 | 61.2 | 63.6 | 65.1 | 65.6 | 62.2 | 59.0 | 55.7 | 42.0 |
| FT/SEC | 34.2 | 43.3 | 48.0 | 51.8 | 54.7 | 56.4 | 58.9 | 59.2 | 59.7 | 55.8 | 51.4 | 46.2 | 30.3 |
| | 24.8 | 34.8 | 40.6 | 45.4 | 48.8 | 50.5 | 53.0 | 52.0 | 53.1 | 47.5 | 42.0 | 34.5 | 13.3 |
| | 17.2 | 28.7 | 35.4 | 40.0 | 44.7 | 45.0 | 47.7 | 45.8 | 46.5 | 39.9 | 34.1 | 25.4 | 2.6 |
| | 0.9 | 15.5 | 22.6 | 28.1 | 32.5 | 33.6 | 34.5 | 33.5 | 33.8 | 25.3 | 18.3 | 5.2 | |
| | | | 7.0 | 13.7 | 18.1 | 19.1 | 21.0 | 17.5 | 15.3 | | | | |
| OVERALL CALCULATE: | 69.3 | 72.8 | 75.1 | 77.1 | 79.0 | 80.6 | 82.1 | 84.1 | 86.0 | 87.8 | 88.8 | 88.7 | 84.5 |
| Pkt | 73.8 | 78.0 | 80.8 | 83.3 | 85.9 | 87.7 | 89.5 | 90.9 | 92.4 | 92.5 | 92.0 | 90.9 | 85.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **543** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 8 DAY 25 HR. 21.8
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. L. 0. 0. 0. PWL
 (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.)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PADIAL 40. FT. | 80 | 83.9 | 92.4 | 90.2 | 91.7 | 92.8 | 91.7 | 93.0 | 93.5 | 93.7 | 95.2 | 99.2 | 100.1 | 102.7 | 137.3 |
| VEHICLE CELL41 | 100 | 81.6 | 86.4 | 86.9 | 89.4 | 91.2 | 92.6 | 93.7 | 94.2 | 93.1 | 91.9 | 101.1 | 103.6 | 104.4 | 138.3 |
| CONFIG NC54 | 125 | 82.1 | 84.2 | 87.7 | 83.0 | 88.3 | 83.9 | 88.5 | 91.0 | 92.2 | 96.5 | 102.2 | 104.1 | 106.2 | 138.9 |
| LOC C41 ANECH CH | 200 | 84.5 | 85.0 | 86.0 | 87.6 | 88.2 | 89.8 | 90.7 | 93.1 | 95.5 | 100.1 | 103.8 | 108.8 | 110.3 | 142.4 |
| DATE 06-11-76 | 250 | 83.3 | 86.1 | 87.6 | 87.9 | 88.7 | 90.3 | 93.2 | 95.1 | 97.1 | 101.2 | 106.1 | 111.0 | 112.3 | 144.9 |
| RUN CONF5HIGHFLW | 315 | 85.2 | 89.7 | 87.2 | 89.7 | 91.8 | 92.7 | 94.6 | 96.2 | 98.7 | 104.3 | 109.7 | 113.9 | 113.7 | 147.0 |
| TAPE X03440 | 400 | 86.7 | 88.0 | 90.2 | 90.3 | 91.6 | 93.0 | 94.1 | 96.8 | 100.2 | 106.5 | 112.5 | 115.2 | 113.7 | 148.3 |
| BAR 29.3 HG | 500 | 87.5 | 88.5 | 89.8 | 90.6 | 91.7 | 93.3 | 95.2 | 97.8 | 100.8 | 107.6 | 113.3 | 115.8 | 114.8 | 149.1 |
| (98773. N/M2) | 630 | 88.6 | 90.1 | 90.9 | 92.4 | 93.3 | 94.6 | 96.5 | 98.9 | 102.9 | 108.5 | 113.4 | 116.6 | 115.1 | 149.8 |
| TAMB 84. DEG F | 800 | 90.4 | 91.4 | 92.4 | 93.5 | 94.3 | 95.9 | 97.8 | 100.0 | 104.4 | 108.7 | 113.9 | 116.9 | 115.9 | 150.3 |
| (302. DEG K) | 1000 | 93.5 | 94.2 | 94.7 | 95.0 | 95.9 | 97.0 | 98.1 | 101.5 | 104.7 | 109.1 | 112.5 | 116.0 | 116.5 | 149.9 |
| TWET 71. DEG F | 1250 | 92.8 | 94.1 | 94.1 | 95.9 | 96.7 | 98.6 | 99.2 | 102.6 | 105.6 | 109.2 | 111.9 | 116.8 | 116.1 | 150.1 |
| (295. DEG K) | 1600 | 93.4 | 94.4 | 94.4 | 95.5 | 97.1 | 98.4 | 99.3 | 102.0 | 105.9 | 108.8 | 111.2 | 116.7 | 116.2 | 150.0 |
| HACT15.21 GM/H3 | 2000 | 96.2 | 96.0 | 96.5 | 96.5 | 97.4 | 98.2 | 99.6 | 102.8 | 106.3 | 108.8 | 110.8 | 116.2 | 114.2 | 149.4 |
| (.01521 KG/H3) | 2500 | 97.8 | 97.8 | 97.9 | 97.9 | 98.2 | 99.1 | 100.5 | 103.4 | 106.6 | 108.2 | 110.9 | 114.8 | 112.3 | 148.8 |
| FREQ. SHIFT | 3150 | 96.8 | 98.1 | 98.1 | 98.9 | 99.2 | 99.1 | 100.7 | 103.6 | 106.8 | 108.7 | 111.4 | 113.8 | 110.6 | 148.5 |
| JET D | 4000 | 94.3 | 95.9 | 96.9 | 98.2 | 98.7 | 99.6 | 100.7 | 104.2 | 106.4 | 108.0 | 110.2 | 112.1 | 108.1 | 147.5 |
| DIAMETER RATIO | 5000 | 93.2 | 95.2 | 95.8 | 97.5 | 98.1 | 100.0 | 100.9 | 104.0 | 106.0 | 106.9 | 110.3 | 110.2 | 107.0 | 145.9 |
| DF/DH 1.00 | 6300 | 92.5 | 95.1 | 95.6 | 96.9 | 98.7 | 99.8 | 101.9 | 103.6 | 106.1 | 106.5 | 109.2 | 109.0 | 106.8 | 146.5 |
| | 8000 | 92.0 | 94.1 | 94.7 | 96.7 | 98.5 | 99.9 | 102.0 | 103.4 | 105.7 | 106.1 | 106.2 | 107.9 | 105.6 | 146.1 |
| | 10000 | 89.7 | 93.3 | 94.4 | 96.1 | 97.9 | 98.0 | 101.2 | 102.9 | 104.6 | 105.1 | 107.0 | 107.1 | 104.5 | 145.5 |
| | 12500 | 86.8 | 91.1 | 92.7 | 94.4 | 96.5 | 96.8 | 99.2 | 100.6 | 102.2 | 102.4 | 104.3 | 105.1 | 103.6 | 143.0 |
| | 16000 | 84.9 | 88.9 | 90.9 | 93.3 | 95.3 | 95.4 | 98.6 | 98.8 | 101.1 | 99.9 | 102.5 | 103.2 | 102.4 | 143.0 |
| | 20000 | 81.9 | 85.2 | 87.6 | 89.9 | 93.4 | 93.3 | 96.4 | 94.8 | 98.1 | 96.4 | 98.0 | 99.2 | 98.8 | 140.7 |
| | 25000 | 79.4 | 83.2 | 84.1 | 86.7 | 89.9 | 89.6 | 91.7 | 92.3 | 95.4 | 92.8 | 96.9 | 94.4 | 95.5 | 139.0 |
| | 31500 | 76.5 | 80.3 | 82.8 | 85.2 | 87.2 | 87.2 | 89.6 | 89.0 | 91.6 | 88.9 | 92.6 | 94.3 | 93.7 | 138.5 |
| | 40000 | 71.7 | 75.8 | 79.5 | 81.5 | 82.5 | 82.6 | 86.5 | 84.4 | 87.2 | 86.4 | 89.9 | 91.0 | 89.6 | 135.0 |
| | 50000 | 66.1 | 70.3 | 74.1 | 75.1 | 74.7 | 76.3 | 79.6 | 77.8 | 80.6 | 80.7 | 84.5 | 83.8 | 83.3 | 136.3 |
| | 63000 | 61.0 | 64.1 | 68.3 | 67.9 | 67.7 | 68.6 | 73.4 | 71.5 | 73.8 | 75.5 | 80.2 | 79.4 | 78.1 | 136.8 |
| | 80000 | 58.1 | 61.1 | 65.6 | 63.9 | 63.0 | 63.9 | 72.6 | 65.8 | 69.6 | 72.5 | 76.5 | 74.3 | 74.2 | 142.5 |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 105.5 | 107.0 | 107.6 | 108.6 | 109.6 | 110.7 | 112.4 | 114.7 | 117.5 | 120.1 | 123.8 | 127.0 | 126.0 | 161.3 |
| PND8 | | 119.0 | 120.5 | 120.8 | 121.7 | 122.5 | 123.3 | 124.7 | 127.5 | 130.3 | 132.6 | 135.7 | 138.4 | 136.6 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 544 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-190cm²(29.4in²) SIZE

PROC. DATE - MONTH 8 DAY 27 HR. 5.5
0. 0. 0. 0.) (0.) (0.) (0.) (0.)
FREQ. (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.) (0.)
50 35.5 86.0 87.0 88.5 89.1 90.7 91.3 91.6 94.0 96.5 101.1 104.8 109.7 111.2 154.8
63 84.3 87.0 88.5 88.8 89.7 91.3 94.2 96.1 98.0 102.1 109.1 112.0 113.3 157.3
80 36.1 90.6 88.1 90.7 92.8 93.6 95.5 97.2 99.6 105.2 110.7 114.8 114.6 159.6
125 88.5 89.5 90.7 91.2 92.5 93.9 95.0 97.1 101.2 107.5 113.4 116.1 114.7 160.8
160 89.6 91.1 91.8 93.4 94.2 95.6 97.5 99.9 103.8 109.4 114.4 117.6 116.1 163.6
200 91.3 92.4 93.4 94.4 95.2 96.9 93.7 100.9 105.4 109.7 114.9 117.8 116.9 162.2
250 94.4 95.2 95.7 96.0 96.8 97.9 99.1 102.5 105.7 110.0 113.5 116.9 117.4 162.7
315 93.7 95.0 97.0 96.8 97.7 99.5 100.2 103.6 106.5 110.1 112.8 117.7 117.0 162.3
400 94.4 95.4 96.4 97.5 97.5 98.3 99.2 100.6 103.7 107.2 109.8 111.7 115.2 162.4
500 97.1 96.9 97.5 97.5 98.5 99.2 100.6 104.7 107.2 109.8 111.7 115.2 115.2 161.9
630 98.3 98.8 98.8 98.9 99.2 100.1 101.4 104.4 107.6 109.2 111.9 115.2 113.3 161.2
800 97.8 99.1 99.1 99.9 99.9 100.2 101.7 104.6 107.8 109.7 112.4 114.8 111.6 161.0
1000 95.3 96.9 97.9 99.2 99.8 100.6 101.8 105.2 107.4 109.0 111.2 113.1 109.1 160.0
1250 94.2 96.3 96.8 98.6 99.2 101.0 101.9 105.1 107.1 107.9 111.3 111.2 108.0 159.3
1600 93.6 96.2 96.7 98.0 99.8 100.9 103.0 104.7 107.2 107.6 110.3 110.1 107.9 159.0
2000 93.3 95.3 95.9 97.9 99.7 101.1 103.2 104.7 106.9 107.3 109.5 109.1 106.8 158.6
2500 91.1 94.7 95.8 97.6 99.4 99.5 102.6 104.3 106.1 106.5 108.4 108.5 106.0 157.9
3150 88.5 92.8 94.4 96.1 98.2 98.5 100.9 102.3 103.9 104.1 106.0 106.8 105.3 156.2
4000 87.0 91.1 93.0 95.4 97.5 97.6 100.7 101.0 103.2 102.0 104.6 105.4 104.6 155.5
5000 84.8 88.2 90.5 92.9 95.9 96.4 96.3 99.4 97.7 101.1 99.3 101.0 102.1 101.8 153.1
6300 83.3 87.1 88.0 90.6 93.8 93.5 95.5 96.2 99.3 96.7 100.8 98.3 99.4 151.5
8000 81.7 85.5 88.0 90.4 92.4 92.4 94.8 94.2 96.7 94.1 97.8 99.9 98.9 150.9
10000 78.9 83.0 86.6 88.6 89.7 89.7 93.7 91.6 94.4 93.5 97.1 98.2 96.7 150.5
12500 75.8 80.0 83.7 84.7 84.3 85.9 89.2 87.4 90.3 90.3 95.1 94.1 93.4 148.7
16000 74.0 77.0 81.2 80.9 80.6 81.5 86.4 84.4 86.8 88.4 93.2 92.3 91.0 149.2
20000 76.4 79.4 84.9 82.3 81.4 82.3 90.9 84.2 88.0 90.8 94.9 92.6 92.5 154.9
OVERALL CALCULATED 106.5 107.9 108.6 109.7 110.9 111.8 113.5 115.8 118.7 121.1 124.8 127.9 126.9 173.6
PN08 116.3 119.0 120.0 121.5 123.2 123.7 126.1 127.8 130.2 131.3 134.0 135.6 134.3

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 544 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 27 HR. 5.5

70 PERCENT REL. HUM. DAY

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F.) | | | 70 PERCENT REL. HUM. DAY |
|--------------------|--|--------|--------|--------------------------|
| | 40. | 50. | 60. | |
| 50 | (0.70) | (0.87) | (1.05) | (1.22) |
| 57.3 | 59.4 | 61.5 | 63.7 | 64.7 |
| 63 | 56.0 | 60.4 | 63.0 | 64.0 |
| 80 | 57.8 | 63.9 | 62.5 | 65.8 |
| 100 | 59.2 | 62.1 | 65.5 | 66.2 |
| 125 | 59.9 | 62.6 | 64.9 | 66.5 |
| 160 | 60.8 | 64.0 | 65.9 | 68.2 |
| 200 | 62.4 | 65.1 | 67.3 | 69.1 |
| 250 | 65.2 | 67.7 | 69.4 | 70.5 |
| 315 | 64.2 | 67.3 | 70.5 | 71.1 |
| 400 | 64.4 | 67.3 | 68.6 | 70.4 |
| 500 | 66.6 | 68.4 | 70.2 | 71.1 |
| 630 | 67.6 | 69.7 | 71.1 | 72.0 |
| 800 | 65.6 | 69.2 | 70.7 | 72.4 |
| 1000 | 62.1 | 66.1 | 68.7 | 71.0 |
| 1250 | 59.7 | 64.4 | 66.6 | 69.5 |
| 1600 | 57.1 | 62.6 | 65.1 | 67.6 |
| 2000 | 54.5 | 59.9 | 62.6 | 66.0 |
| 2500 | 49.0 | 56.5 | 60.1 | 63.4 |
| 3150 | 41.0 | 50.0 | 54.7 | 58.3 |
| 4000 | 31.4 | 41.6 | 47.4 | 52.2 |
| 5000 | 24.5 | 34.8 | 41.5 | 46.6 |
| 6300 | 9.3 | 22.3 | 28.9 | 35.0 |
| 8000 | 3.1 | 13.4 | 20.7 | 25.3 |
| 10000 | | | | 3.8 |
| 12500 | | | | 4.9 |
| 16000 | | | | 7.8 |
| 20000 | | | | 2.1 |
| PNDB | 75.1 | 78.1 | 80.1 | 81.7 |
| OVERALL CALCULATED | 80.6 | 84.2 | 86.4 | 88.8 |
| | | | | 91.0 |
| | | | | 92.3 |
| | | | | 94.0 |
| | | | | 95.4 |
| | | | | 96.9 |
| | | | | 97.5 |
| | | | | 98.6 |
| | | | | 98.9 |
| | | | | 99.2 |
| | | | | 99.7 |
| | | | | 100.0 |
| | | | | 110.0 |
| | | | | 120.0 |
| | | | | 130.0 |
| | | | | 140.0 |
| | | | | 150.0 |
| | | | | 160.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 544 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JEROTS)

PROC. DATE - MONTH 8 DAY 25 HR. 21.8
ANGLES FROM INLET IN DEGREES (AND RADIAN)

40. 50. 60. 75. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0.
FREQ. (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.) PWL
50

| RDG. NO. | NO EGA | 63 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 0. | 0. | 0. | 0. | 0. | PWL |
|--------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|-------|
| 630 | 29.2 HG | 94.4 | 93.7 | 94.5 | 93.9 | 94.5 | 95.5 | 96.4 | 97.5 | 101.4 | 102.1 | 105.2 | 139.4 | | | | | |
| 800 | (98739. N/R2) | 85.1 | 88.6 | 87.1 | 91.7 | 93.7 | 95.1 | 95.5 | 96.7 | 95.1 | 94.7 | 103.4 | 106.1 | 106.6 | | | | 140.7 |
| 1250 | 40. FT. | 84.1 | 85.7 | 90.9 | 90.5 | 91.3 | 91.4 | 90.8 | 93.2 | 94.4 | 99.2 | 105.7 | 107.1 | 108.9 | | | | 141.8 |
| 1600 | VEHICLE CELL41 | 86.5 | 87.0 | 88.3 | 90.1 | 90.4 | 92.0 | 93.7 | 95.8 | 98.5 | 102.6 | 107.1 | 111.5 | 113.3 | | | | 145.3 |
| 2500 | CONFIG NCS4 | 84.8 | 88.6 | 90.3 | 90.9 | 91.5 | 92.3 | 95.0 | 97.1 | 99.3 | 103.7 | 110.6 | 113.8 | 114.6 | | | | 147.3 |
| 3150 | LOC C41 ANECH CH | 86.9 | 91.4 | 89.9 | 91.7 | 93.8 | 94.9 | 96.1 | 98.0 | 100.7 | 106.8 | 112.7 | 116.4 | 116.4 | | | | 149.6 |
| 4000 | DATE 06-11-76 | 89.2 | 90.5 | 92.0 | 92.5 | 93.6 | 94.7 | 95.8 | 99.0 | 102.2 | 109.5 | 118.0 | 117.9 | 116.5 | | | | 151.3 |
| 5000 | RUN CONF5HIGHFLW | 90.0 | 90.3 | 91.8 | 92.6 | 93.9 | 95.8 | 97.4 | 99.6 | 103.5 | 110.4 | 115.8 | 118.8 | 116.8 | | | | 151.8 |
| 6300 | TAPE X05450 | 91.1 | 92.6 | 93.4 | 94.4 | 95.3 | 96.9 | 98.5 | 101.2 | 104.9 | 111.0 | 116.7 | 119.6 | 117.9 | | | | 152.7 |
| 8000 | BAR 29.2 HG | 93.9 | 93.9 | 94.7 | 96.0 | 96.8 | 98.2 | 99.5 | 102.2 | 106.9 | 111.5 | 117.2 | 120.6 | 118.7 | | | | 153.5 |
| 10000 | (98739. N/R2) | 96.5 | 97.0 | 97.2 | 97.5 | 97.9 | 99.0 | 101.1 | 103.8 | 107.0 | 111.3 | 116.8 | 120.2 | 119.0 | | | | 153.4 |
| 12500 | TAMP 82. DEG F | 97.0 | 98.3 | 98.6 | 98.4 | 99.0 | 100.6 | 101.5 | 104.6 | 108.1 | 111.7 | 116.9 | 120.8 | 118.1 | | | | 153.6 |
| 16000 | (301. DEG K) | 98.0 | 99.9 | 98.4 | 98.5 | 99.1 | 100.7 | 101.6 | 104.2 | 108.7 | 111.8 | 116.7 | 120.4 | 117.2 | | | | 152.9 |
| 20000 | TWET 70. DEG F | 102.7 | 101.7 | 102.2 | 101.0 | 100.6 | 102.2 | 102.6 | 105.5 | 108.7 | 111.6 | 117.3 | 119.2 | 114.5 | | | | 152.1 |
| 25000 | (294. DEG K) | 100.5 | 101.8 | 102.6 | 102.9 | 102.7 | 102.1 | 103.5 | 105.9 | 109.9 | 111.2 | 117.1 | 116.8 | 111.3 | | | | 151.8 |
| 31500 | HACT14.55 GM/H3 | 99.8 | 100.8 | 101.3 | 102.1 | 103.2 | 103.8 | 103.5 | 105.9 | 109.6 | 111.7 | 117.1 | 115.3 | 110.6 | | | | 150.7 |
| 40000 | (.01455 KG/H3) | 98.5 | 99.6 | 100.4 | 100.9 | 101.7 | 102.6 | 104.5 | 106.9 | 108.9 | 111.7 | 115.2 | 113.3 | 108.3 | | | | 149.8 |
| 50000 | JET 0 | 98.7 | 98.7 | 100.3 | 101.5 | 101.4 | 102.7 | 104.1 | 107.0 | 108.8 | 111.4 | 113.6 | 111.2 | 107.2 | | | | 149.7 |
| 63000 | DIAMETER RATIO | 96.0 | 97.8 | 99.4 | 100.6 | 102.7 | 103.6 | 104.9 | 107.1 | 109.4 | 110.7 | 112.7 | 110.8 | 106.3 | | | | 149.2 |
| 80000 | DF/DM 1.00 | 94.5 | 96.1 | 97.7 | 100.2 | 101.8 | 103.6 | 105.3 | 106.9 | 109.2 | 110.3 | 111.2 | 109.4 | 105.4 | | | | 148.4 |
| 100000 | | 92.4 | 96.1 | 97.4 | 98.9 | 101.4 | 101.6 | 104.2 | 105.9 | 108.1 | 109.6 | 109.5 | 108.3 | 104.6 | | | | 146.8 |
| 125000 | | 90.1 | 93.6 | 95.7 | 97.4 | 99.5 | 100.9 | 102.7 | 103.8 | 106.2 | 106.7 | 107.1 | 106.4 | 103.4 | | | | 146.1 |
| 160000 | | 88.4 | 91.7 | 93.9 | 96.6 | 98.3 | 99.4 | 101.8 | 101.9 | 104.4 | 105.1 | 105.8 | 104.8 | 101.9 | | | | 144.0 |
| 200000 | | 86.1 | 89.0 | 91.6 | 93.2 | 96.5 | 96.6 | 99.7 | 98.5 | 101.4 | 100.7 | 102.3 | 101.7 | 98.6 | | | | 142.6 |
| 250000 | | 83.5 | 86.3 | 88.2 | 90.5 | 92.7 | 92.9 | 95.0 | 95.4 | 99.0 | 97.6 | 101.2 | 98.0 | 95.3 | | | | 142.3 |
| 315000 | | 81.3 | 84.4 | 87.1 | 88.6 | 90.6 | 90.8 | 93.2 | 92.6 | 95.7 | 94.8 | 98.5 | 97.3 | 92.3 | | | | 142.5 |
| 400000 | | 78.0 | 80.9 | 84.1 | 84.8 | 85.6 | 86.4 | 88.9 | 88.3 | 92.4 | 93.5 | 96.1 | 94.6 | 89.2 | | | | 141.8 |
| 500000 | | 74.3 | 76.5 | 80.5 | 79.8 | 79.6 | 79.9 | 81.7 | 81.7 | 85.3 | 88.9 | 93.2 | 87.1 | 83.2 | | | | 143.1 |
| 630000 | | 70.2 | 72.0 | 77.2 | 75.6 | 74.6 | 74.5 | 75.1 | 75.4 | 80.3 | 84.5 | 88.0 | 82.1 | 78.3 | | | | 148.9 |
| 800000 | | 68.0 | 70.5 | 76.6 | 73.1 | 72.0 | 72.1 | 73.5 | 69.1 | 74.5 | 80.3 | 84.8 | 77.0 | 74.9 | | | | 164.5 |
| OVERALL MEASURED | | 109.8 | 110.5 | 111.3 | 112.0 | 113.0 | 113.8 | 115.3 | 117.5 | 120.4 | 123.3 | 128.0 | 130.0 | 127.9 | | | | |
| OVERALL CALCULATED | | 122.5 | 123.6 | 124.3 | 125.0 | 125.9 | 126.7 | 127.8 | 130.2 | 133.0 | 135.7 | 140.5 | 140.9 | 137.7 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **545** ACOUSTIC RANGE **12.2m(40ft.)** ARC
SIZE **MODEL-190cm²(29.4in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| RDG. NO. | NO EGA | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | PROC. DATE - MONTH 2 DAY 27 HR. 5.5 | | | | | | | | |
|--------------------|--------|---------------------------------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------------------------------------|-------|-------|--------|--------|--------|-------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | ANGLES FROM INLET IN DEGREES (AND RADIANS) | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | (0.) | 0.) | 0.) | 0.) | 0.) |
| 50 | 87.5 | 88.0 | 89.2 | 91.0 | 91.4 | 93.0 | 94.6 | 96.8 | 99.5 | 103.6 | 108.0 | 112.4 | 114.2 | 157.7 | (2.44) | (2.62) | (2.79) | (0.) | 0.) | 0.) |
| 63 | 85.6 | 89.5 | 91.3 | 91.8 | 92.4 | 93.3 | 95.9 | 98.1 | 100.3 | 104.6 | 111.6 | 114.7 | 115.5 | 159.8 | | | | | | |
| 30 | 87.9 | 92.4 | 90.9 | 92.7 | 94.8 | 95.9 | 97.0 | 98.9 | 101.6 | 107.7 | 113.7 | 117.3 | 117.4 | 162.0 | | | | | | |
| 100 | 90.1 | 91.4 | 92.9 | 93.4 | 94.5 | 95.7 | 96.8 | 98.9 | 103.2 | 110.5 | 116.9 | 118.9 | 117.4 | 163.7 | | | | | | |
| 125 | 91.0 | 91.2 | 92.7 | 93.5 | 94.9 | 96.7 | 98.4 | 100.5 | 104.5 | 111.3 | 116.8 | 119.7 | 117.4 | 164.2 | | | | | | |
| 160 | 92.1 | 93.6 | 94.3 | 95.4 | 96.2 | 97.8 | 99.5 | 102.1 | 107.9 | 112.4 | 118.1 | 121.6 | 119.6 | 165.1 | | | | | | |
| 200 | 94.8 | 94.9 | 95.6 | 96.9 | 97.7 | 98.5 | 98.8 | 99.9 | 102.4 | 105.6 | 109.0 | 112.6 | 117.8 | 165.9 | | | | | | |
| 250 | 97.4 | 97.9 | 98.2 | 98.5 | 98.8 | 99.3 | 99.5 | 99.9 | 101.5 | 102.4 | 103.0 | 103.7 | 104.4 | 166.8 | | | | | | |
| 315 | 98.0 | 99.3 | 99.5 | 99.3 | 99.4 | 99.4 | 99.4 | 100.0 | 101.6 | 102.5 | 103.6 | 104.7 | 105.4 | 166.0 | | | | | | |
| 400 | 102.6 | 100.9 | 99.4 | 99.4 | 100.0 | 101.6 | 101.2 | 103.2 | 102.0 | 101.6 | 101.2 | 103.6 | 109.7 | 165.8 | | | | | | |
| 500 | 103.6 | 102.7 | 103.2 | 102.0 | 101.6 | 101.2 | 103.6 | 106.5 | 109.7 | 112.5 | 118.2 | 120.2 | 115.4 | 165.3 | | | | | | |
| 630 | 101.5 | 102.8 | 103.6 | 103.9 | 103.7 | 103.1 | 104.4 | 106.9 | 110.8 | 112.2 | 118.1 | 117.8 | 112.3 | 166.5 | | | | | | |
| 800 | 99.6 | 100.6 | 101.4 | 101.9 | 102.6 | 103.8 | 104.2 | 104.8 | 104.4 | 106.9 | 112.8 | 116.2 | 114.4 | 164.2 | | | | | | |
| 1000 | 98.4 | 99.8 | 101.3 | 102.6 | 102.4 | 103.8 | 105.1 | 107.9 | 109.9 | 112.8 | 116.2 | 114.4 | 109.4 | 163.1 | | | | | | |
| 1250 | 98.4 | 99.8 | 101.3 | 102.6 | 102.4 | 103.8 | 105.1 | 107.9 | 109.9 | 112.8 | 116.2 | 114.4 | 109.4 | 162.2 | | | | | | |
| 1600 | 97.1 | 98.9 | 100.5 | 101.7 | 103.8 | 104.7 | 106.0 | 108.2 | 110.5 | 111.8 | 113.8 | 111.9 | 107.4 | 162.1 | | | | | | |
| 2000 | 95.8 | 97.3 | 98.9 | 101.4 | 103.0 | 104.8 | 106.5 | 108.2 | 110.4 | 111.6 | 112.5 | 110.6 | 106.6 | 161.6 | | | | | | |
| 2500 | 93.9 | 97.5 | 98.8 | 100.3 | 102.9 | 103.0 | 105.6 | 107.3 | 109.6 | 111.0 | 110.9 | 109.7 | 106.0 | 160.9 | | | | | | |
| 3150 | 91.3 | 95.3 | 97.4 | 99.1 | 101.2 | 102.5 | 104.4 | 105.5 | 107.9 | 108.4 | 108.8 | 108.1 | 105.0 | 159.3 | | | | | | |
| 4000 | 90.5 | 93.8 | 96.0 | 98.7 | 100.5 | 101.6 | 104.0 | 104.0 | 106.5 | 107.3 | 107.9 | 106.9 | 104.1 | 158.6 | | | | | | |
| 5000 | 89.1 | 91.9 | 94.6 | 96.2 | 99.4 | 99.5 | 102.7 | 101.5 | 104.3 | 103.6 | 105.2 | 104.7 | 101.6 | 156.4 | | | | | | |
| 6300 | 87.4 | 90.2 | 92.1 | 94.4 | 96.6 | 96.8 | 98.8 | 99.2 | 102.8 | 101.5 | 105.1 | 101.9 | 99.2 | 155.0 | | | | | | |
| 8000 | 86.5 | 89.6 | 92.3 | 93.7 | 95.7 | 95.9 | 98.4 | 97.7 | 100.8 | 99.9 | 103.6 | 102.5 | 97.5 | 154.8 | | | | | | |
| 10000 | 85.2 | 88.1 | 91.2 | 92.0 | 92.8 | 93.6 | 96.0 | 95.5 | 99.5 | 100.7 | 103.2 | 101.8 | 96.3 | 155.0 | | | | | | |
| 12500 | 83.9 | 86.1 | 90.1 | 89.4 | 87.2 | 89.6 | 91.3 | 91.3 | 95.4 | 98.5 | 102.8 | 96.8 | 92.8 | 154.3 | | | | | | |
| 16000 | 83.1 | 84.9 | 90.2 | 88.6 | 87.5 | 87.4 | 88.0 | 88.3 | 93.2 | 97.4 | 100.9 | 95.0 | 91.2 | 152.5 | | | | | | |
| 20000 | 86.3 | 88.9 | 94.9 | 91.5 | 90.3 | 90.5 | 91.9 | 87.4 | 92.9 | 98.6 | 103.1 | 95.3 | 93.2 | 161.3 | | | | | | |
| OVERALL CALCULATED | 110.8 | 111.5 | 112.4 | 113.1 | 114.1 | 115.0 | 116.6 | 118.6 | 121.6 | 124.4 | 129.0 | 131.0 | 128.7 | 176.9 | | | | | | |
| F4DB | 119.9 | 122.1 | 123.4 | 124.6 | 126.4 | 127.2 | 129.1 | 130.7 | 133.4 | 135.2 | 137.7 | 138.2 | 135.1 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 545 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | |
|----------------------------------|---------------------------------|------|------|------|------|------|------|---|-------|-------|-------|-------|------|--|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| NO EGA | 59.3 | 61.4 | 63.7 | 66.2 | 67.0 | 68.7 | 70.2 | 72.0 | 74.0 | 76.9 | 79.8 | 82.0 | 80.3 | |
| SIDELINE 2400. FT.
(731.52 M) | 63 | 57.5 | 62.9 | 65.7 | 67.0 | 68.0 | 69.0 | 71.5 | 73.2 | 74.7 | 77.9 | 83.3 | 84.2 | |
| NFA (0. RAD/SEC) | 80 | 59.5 | 65.6 | 65.2 | 67.8 | 70.3 | 71.5 | 72.5 | 74.0 | 70.0 | 81.0 | 85.3 | 86.7 | |
| MFK (1. RPM) | 100 | 61.7 | 64.6 | 67.2 | 68.5 | 70.0 | 71.3 | 72.2 | 75.0 | 77.5 | 83.7 | 88.5 | 83.1 | |
| MFD (0. RAD/SEC) | 125 | 62.4 | 64.3 | 66.9 | 68.5 | 70.2 | 72.3 | 73.7 | 75.5 | 78.7 | 84.4 | 88.2 | 83.1 | |
| (785. RAD/SEC) | 160 | 63.3 | 66.5 | 68.4 | 70.2 | 71.5 | 73.2 | 74.7 | 77.0 | 79.9 | 84.8 | 88.9 | 89.4 | |
| (1. RPM) | 200 | 65.9 | 67.6 | 69.5 | 71.6 | 72.9 | 74.4 | 75.6 | 77.8 | 81.8 | 85.2 | 89.2 | 90.1 | |
| (0. RAD/SEC) | 250 | 68.2 | 70.5 | 71.9 | 73.0 | 73.8 | 75.0 | 77.0 | 79.2 | 81.7 | 84.8 | 88.3 | 84.1 | |
| (7500. RPM) | 315 | 66.4 | 71.5 | 73.0 | 73.6 | 74.7 | 76.4 | 77.2 | 79.9 | 82.5 | 84.9 | 88.3 | 89.5 | |
| (785. RAD/SEC) | 400 | 72.0 | 72.8 | 72.6 | 73.4 | 74.5 | 76.3 | 77.0 | 79.2 | 82.8 | 84.6 | 87.7 | 88.6 | |
| AIRFLOW RATIO | 500 | 73.1 | 74.1 | 76.0 | 75.6 | 75.7 | 75.5 | 77.7 | 80.1 | 82.5 | 84.0 | 87.7 | 86.7 | |
| WF/WM 4.18 | 630 | 70.3 | 73.7 | 75.8 | 77.0 | 77.4 | 76.9 | 78.1 | 80.0 | 83.1 | 83.0 | 86.9 | 87.1 | |
| VEHICLE CELL 41 | 800 | 68.0 | 71.9 | 73.9 | 75.7 | 77.3 | 78.1 | 77.6 | 79.4 | 82.2 | 85.8 | 86.0 | 80.7 | |
| CONFIG NCS4 | 1000 | 66.4 | 69.9 | 72.2 | 73.8 | 75.2 | 76.2 | 77.9 | 79.8 | 80.7 | 82.0 | 83.0 | 77.4 | |
| LOC C41 ANECH CH | 1250 | 63.9 | 67.8 | 71.1 | 73.5 | 74.0 | 75.5 | 76.7 | 79.0 | 79.6 | 80.5 | 80.0 | 73.5 | |
| DATE C6-11-76 | 1600 | 60.6 | 65.4 | 68.9 | 71.3 | 74.1 | 75.2 | 76.4 | 77.8 | 78.9 | 78.3 | 77.3 | 70.7 | |
| RUM CONF5HIGHFLW | 2000 | 57.0 | 61.9 | 65.6 | 69.5 | 71.8 | 73.9 | 75.3 | 76.2 | 77.1 | 76.1 | 73.7 | 66.4 | |
| TAPE X05450 | 2500 | 51.7 | 59.2 | 63.1 | 66.1 | 69.6 | 70.0 | 72.3 | 73.1 | 73.8 | 72.7 | 68.7 | 61.2 | |
| FAN TIP SPEED | 3150 | 44.2 | 52.6 | 57.7 | 61.3 | 64.4 | 66.1 | 67.7 | 67.7 | 68.2 | 65.6 | 61.2 | 52.5 | |
| FT/SEC | 4000 | 34.9 | 44.4 | 50.4 | 55.5 | 58.6 | 60.1 | 62.1 | 60.8 | 60.9 | 57.8 | 52.3 | 40.9 | |
| | 5000 | 28.8 | 38.6 | 45.6 | 49.8 | 54.6 | 55.1 | 57.8 | 55.2 | 55.3 | 50.3 | 44.9 | 32.6 | |
| | 6300 | 13.3 | 25.4 | 33.0 | 38.8 | 42.9 | 43.8 | 45.2 | 43.7 | 43.8 | 36.7 | 31.0 | 11.9 | |
| | 8000 | 7.2 | 17.8 | 24.0 | 28.6 | 29.6 | 31.2 | 28.0 | 26.3 | 17.6 | 8.5 | | | |
| | 10000 | | 2.5 | 6.9 | 8.8 | 10.1 | 6.0 | | | | | | | |
| | 12500 | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | |
| | 20000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 79.6 | 81.9 | 83.7 | 85.0 | 86.2 | 87.2 | 88.4 | 90.6 | 92.8 | 95.2 | 98.7 | 94.8 | 93.0 | |
| | 85.2 | 87.9 | 90.3 | 92.2 | 94.2 | 95.6 | 97.0 | 98.4 | 100.0 | 100.8 | 103.0 | 102.0 | 94.6 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 545 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | | | | | | | | | | | | | | | | | | | |
|--------------------|--------------------------------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|--|--|
| | PROC. DATE - MONTH 8 DAY 25 HR. 21.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FREQ. | (0.70) | (0.37) | (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. | (0.) | | | | | | | | | | | | | | | | | | | |
| RDG. NO. | NO EGA | 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 | 25000 | 31500 | 40000 | 50000 | 63000 | 80000 | | | | |
| RADIAL | 40. FT. | 50. FT. | 60. FT. | 70. FT. | 80. FT. | 90. FT. | 100. FT. | 110. FT. | 120. FT. | 130. FT. | 140. FT. | 150. FT. | 160. FT. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | |
| VEHICLE | CELL41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONFIG | NC54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOC | C41 ANECH CH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | 06-11-76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RUN | CONFHIGHFLW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAPE | X05460 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAR | 29.2 HG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (98739. N/M2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAMB | 82. DEG F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (301. DEG K) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TWET | 70. DEG F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (29. DEG K) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HACT | 14.55 GM/M3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (.01455 KG/M3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FREQ. SHIFT | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JET | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIAMETER RATIO | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DF/DM | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 102.2 | 104.4 | 105.6 | 106.8 | 108.3 | 109.5 | 111.5 | 114.0 | 116.8 | 119.3 | 121.8 | 124.1 | 122.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| PM08 | 115.2 | 117.2 | 118.4 | 119.3 | 120.8 | 122.0 | 123.7 | 126.9 | 129.5 | 131.9 | 134.4 | 136.7 | 133.9 | | | | | | | | | | | | | | | | | | | | | | | | |

CONFIGURATION **5** TEST POINT **546** ACOUSTIC RANGE **12.2m(40ft.) ARC**

SIZE **MODEL-190cm²(29.4in²)**

ANECHOIC JET NOISE TEST FACILITY RESULTS

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | PWL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 84.0 | 84.7 | 85.0 | 85.3 | 85.6 | 86.0 | 86.3 | 86.7 | 87.0 | 87.4 | 87.8 | 88.2 | 88.6 | 89.0 | 153.7 |
| RDG. NO. 0. | 83.5 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 86.1 | 86.5 | 86.9 | 87.3 | 87.7 | 88.1 | 88.5 | 88.9 | 156.0 |
| RADIAL 150. FT. | 82.9 | 83.4 | 83.8 | 84.2 | 84.6 | 85.0 | 85.4 | 85.8 | 86.2 | 86.6 | 87.0 | 87.4 | 87.8 | 88.2 | 157.7 |
| (46. 4) | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 85.9 | 86.3 | 86.7 | 87.1 | 87.5 | 87.9 | 159.0 |
| VEHICLE CELL41 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 86.1 | 86.5 | 86.9 | 87.3 | 87.7 | 159.2 |
| CONFIG NC34 | 82.3 | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 85.9 | 86.3 | 86.7 | 87.1 | 87.5 | 159.1 |
| LOC C41 ANECH CH | 82.1 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 86.1 | 86.5 | 86.9 | 87.3 | 158.4 |
| DATE 06-11-76 | 81.9 | 82.3 | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 85.9 | 86.3 | 86.7 | 87.1 | 158.7 |
| RUN CONF5HIGHFLW | 81.7 | 82.1 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 86.1 | 86.5 | 86.9 | 159.2 |
| TAPE X03460 | 81.5 | 81.9 | 82.3 | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 85.9 | 86.3 | 86.7 | 160.1 |
| BAR 29.2 HG | 81.3 | 81.7 | 82.1 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 86.1 | 86.5 | 159.2 |
| (98739. H/M2) | 81.1 | 81.5 | 81.9 | 82.3 | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 85.9 | 86.3 | 158.4 |
| TAMB 82. DEG F | 80.9 | 81.3 | 81.7 | 82.1 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 86.1 | 158.1 |
| (301. DEG K) | 80.7 | 81.1 | 81.5 | 81.9 | 82.3 | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 85.9 | 157.6 |
| TWET 70. DEG F | 80.5 | 80.9 | 81.3 | 81.7 | 82.1 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 85.7 | 156.9 |
| (294. DEG K) | 80.3 | 80.7 | 81.1 | 81.5 | 81.9 | 82.3 | 82.7 | 83.1 | 83.5 | 83.9 | 84.3 | 84.7 | 85.1 | 85.5 | 155.4 |
| HACT14.55 GM/M3 | 80.1 | 80.5 | 80.9 | 81.3 | 81.7 | 82.1 | 82.5 | 82.9 | 83.3 | 83.7 | 84.1 | 84.5 | 84.9 | 85.3 | 154.4 |
| (.01455 KG/M3) | 80.0 | 80.4 | 80.8 | 81.2 | 81.6 | 82.0 | 82.4 | 82.8 | 83.2 | 83.6 | 84.0 | 84.4 | 84.8 | 85.2 | 152.2 |
| FREQ. SHIFT | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 150.2 |
| JET 6 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 149.8 |
| DIAMETER RATIO | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 149.0 |
| DF/DW 4.18 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 147.6 |
| 10000 | 76.2 | 76.6 | 77.0 | 77.4 | 77.8 | 78.2 | 78.6 | 79.0 | 79.4 | 79.8 | 80.2 | 80.6 | 81.0 | 81.4 | 147.8 |
| 12500 | 74.1 | 74.5 | 74.9 | 75.3 | 75.7 | 76.1 | 76.5 | 76.9 | 77.3 | 77.7 | 78.1 | 78.5 | 78.9 | 79.3 | 153.8 |
| 16000 | 73.4 | 73.7 | 74.1 | 74.4 | 74.8 | 75.1 | 75.5 | 75.9 | 76.3 | 76.7 | 77.1 | 77.5 | 77.9 | 78.3 | 151.6 |
| 20000 | 73.3 | 73.6 | 73.9 | 74.2 | 74.5 | 74.8 | 75.1 | 75.5 | 75.8 | 76.2 | 76.5 | 76.9 | 77.2 | 77.6 | 151.6 |
| OVERALL CALCULATED | 103.2 | 105.2 | 106.6 | 107.8 | 109.4 | 110.5 | 112.7 | 115.1 | 117.9 | 120.3 | 122.8 | 125.1 | 127.4 | 129.9 | 131.5 |
| PND8 | 113.3 | 116.2 | 118.2 | 119.9 | 121.9 | 122.6 | 125.2 | 127.0 | 129.5 | 130.6 | 132.2 | 134.0 | 135.8 | 137.5 | 138.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
CONFIGURATION 5-4/6 TEST POINT 5-4/6 AC声USTIC RANGE 45.7m(150ft.) ARC
SIZE FULL-.33m²(513in²)

| NO EGA
(731.52 M)
SIDELINE 2400. FT.
NFA
(0. RAD/SEC)
NFK
(0. RAD/SEC)
NFD
(7500. RPM)
(785. RAD/SEC)
AIRFLOW RATIO
WF/WH 4.18
VEHICLE CELL41
CONFIG NC54
LOC C41 ANECH CH
DATE 06-11-76
RUN CONF5HIGHFLW
TAPE XD3460
FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| 50 | 53.8 | 58.1 | 60.5 | 63.2 | 64.5 | 65.5 | 67.2 | 68.7 | 70.7 | 73.7 | 75.8 | 78.0 | 75.0 |
| 63 | 55.3 | 59.6 | 62.2 | 63.5 | 64.7 | 66.2 | 68.7 | 70.0 | 72.0 | 75.2 | 80.1 | 80.2 | 77.3 |
| 80 | 56.5 | 62.4 | 61.7 | 64.5 | 67.3 | 68.5 | 69.5 | 71.0 | 73.0 | 77.0 | 81.3 | 82.5 | 78.2 |
| 100 | 58.4 | 61.1 | 64.5 | 65.7 | 67.0 | 68.3 | 69.7 | 72.2 | 74.7 | 79.2 | 83.8 | 83.1 | 78.3 |
| 125 | 59.1 | 61.6 | 63.9 | 66.0 | 67.7 | 69.8 | 70.7 | 72.2 | 75.7 | 80.4 | 83.5 | 83.0 | 78.1 |
| 160 | 60.1 | 62.8 | 64.7 | 67.2 | 69.0 | 70.0 | 72.0 | 74.0 | 76.7 | 80.6 | 82.9 | 82.6 | 77.1 |
| 200 | 60.9 | 64.1 | 65.8 | 68.3 | 69.6 | 71.9 | 72.9 | 75.1 | 78.5 | 81.2 | 82.2 | 81.9 | 76.7 |
| 250 | 62.7 | 65.7 | 67.2 | 68.7 | 70.3 | 72.3 | 73.5 | 75.7 | 78.7 | 81.0 | 79.4 | 79.4 | 75.6 |
| 315 | 62.2 | 65.0 | 68.8 | 69.4 | 70.4 | 72.9 | 73.4 | 76.1 | 79.0 | 81.6 | 80.0 | 79.5 | 75.0 |
| 400 | 62.1 | 65.0 | 67.1 | 69.7 | 71.0 | 73.0 | 74.0 | 75.7 | 79.6 | 80.6 | 79.7 | 80.3 | 74.8 |
| 500 | 62.4 | 65.1 | 68.2 | 69.1 | 71.7 | 72.7 | 74.4 | 76.9 | 79.2 | 80.5 | 79.0 | 80.7 | 74.1 |
| 630 | 61.6 | 65.2 | 67.6 | 69.8 | 70.9 | 72.4 | 75.1 | 76.8 | 79.1 | 79.5 | 78.9 | 79.4 | 71.4 |
| 800 | 60.6 | 64.7 | 67.2 | 68.7 | 71.3 | 72.3 | 73.8 | 76.9 | 78.7 | 79.3 | 79.5 | 78.7 | 68.4 |
| 1000 | 58.9 | 63.1 | 66.0 | 68.0 | 69.7 | 71.2 | 72.9 | 76.5 | 77.5 | 78.2 | 77.8 | 75.2 | 63.9 |
| 1250 | 56.9 | 62.1 | 65.4 | 67.5 | 68.7 | 70.8 | 72.5 | 75.5 | 76.4 | 76.0 | 75.8 | 71.5 | 59.9 |
| 1600 | 54.3 | 60.4 | 63.6 | 66.1 | 68.4 | 70.2 | 72.4 | 74.1 | 75.1 | 73.5 | 72.5 | 68.7 | 55.8 |
| 2000 | 51.2 | 57.6 | 61.6 | 65.0 | 67.1 | 68.7 | 70.6 | 72.2 | 72.9 | 71.9 | 69.2 | 64.1 | 50.9 |
| 2500 | 46.0 | 53.5 | 58.6 | 62.1 | 65.3 | 65.7 | 67.8 | 69.4 | 69.8 | 67.7 | 64.2 | 59.2 | 44.1 |
| 3150 | 38.7 | 46.8 | 52.0 | 56.6 | 60.4 | 60.9 | 63.9 | 64.0 | 63.7 | 60.4 | 57.0 | 51.3 | 32.3 |
| 4000 | 28.7 | 38.4 | 44.7 | 50.2 | 54.3 | 54.9 | 57.8 | 56.8 | 56.7 | 52.1 | 47.0 | 39.4 | 16.1 |
| 5000 | 21.8 | 32.1 | 39.3 | 44.3 | 49.8 | 50.1 | 53.8 | 50.9 | 50.8 | 45.5 | 40.2 | 30.1 | 4.4 |
| 6300 | 5.8 | 18.6 | 26.5 | 32.8 | 37.4 | 38.5 | 40.2 | 39.7 | 39.3 | 31.2 | 25.3 | 8.4 | |
| 8000 | | | 10.8 | 18.2 | 22.8 | 23.6 | 26.5 | 23.5 | 21.3 | 11.3 | 2.2 | | |
| 10000 | | | | | 0.9 | 2.3 | 5.6 | 1.0 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| 20000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.1 | 75.6 | 78.0 | 79.9 | 81.7 | 83.3 | 84.9 | 87.1 | 89.4 | 91.4 | 92.5 | 92.3 | 87.3 |
| PND8 | 76.8 | 81.3 | 84.5 | 87.3 | 89.6 | 91.0 | 92.9 | 94.7 | 96.2 | 96.7 | 96.3 | 95.7 | 88.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 546 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160.
 PROC. DATE - MONTH 8 DAY 27 HR. 11.9
 G. C. U. O. PWL
 (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)

| NO | ESG | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 85.9 | 95.4 | 92.7 | 95.0 | 96.5 | 95.4 | 96.8 | 95.0 | 101.4 | 99.0 | 102.7 | 103.6 | 106.4 | 141.3 | 141.3 |
| 84.6 | 89.1 | 89.9 | 92.7 | 94.7 | 96.4 | 97.0 | 97.7 | 99.9 | 95.7 | 104.1 | 106.5 | 107.6 | 141.7 | 141.7 |
| 84.4 | 86.9 | 91.4 | 91.2 | 91.7 | 92.5 | 94.5 | 99.7 | 101.0 | 106.4 | 107.9 | 110.2 | 143.0 | 143.0 | 143.0 |
| 86.3 | 87.5 | 88.8 | 90.8 | 91.7 | 92.8 | 94.7 | 98.8 | 102.3 | 103.4 | 107.8 | 112.5 | 113.8 | 146.2 | 146.2 |
| 85.8 | 89.8 | 91.1 | 91.6 | 92.5 | 93.6 | 95.2 | 99.4 | 102.6 | 104.9 | 111.9 | 114.5 | 115.3 | 148.4 | 148.4 |
| 87.9 | 91.9 | 92.2 | 92.7 | 94.6 | 97.3 | 99.7 | 104.2 | 107.8 | 114.0 | 117.4 | 117.4 | 150.7 | 150.7 | 150.7 |
| 90.2 | 91.5 | 93.0 | 93.3 | 94.3 | 95.7 | 97.1 | 100.3 | 105.5 | 110.0 | 116.5 | 118.4 | 117.2 | 151.9 | 151.9 |
| 90.5 | 91.5 | 92.5 | 93.6 | 94.9 | 96.5 | 98.4 | 101.3 | 106.0 | 111.9 | 117.3 | 119.3 | 117.8 | 152.8 | 152.8 |
| 91.9 | 93.4 | 93.6 | 95.2 | 96.5 | 97.6 | 100.0 | 102.4 | 107.6 | 112.2 | 116.9 | 119.9 | 118.6 | 153.2 | 153.2 |
| 93.6 | 94.9 | 94.9 | 95.4 | 97.8 | 98.7 | 100.8 | 103.7 | 109.7 | 113.2 | 117.2 | 120.1 | 119.4 | 153.7 | 153.7 |
| 96.5 | 97.7 | 97.7 | 98.3 | 98.9 | 99.5 | 102.1 | 105.0 | 109.2 | 113.1 | 117.0 | 119.4 | 119.5 | 153.5 | 153.5 |
| 97.3 | 98.3 | 99.6 | 99.1 | 100.0 | 101.8 | 103.0 | 106.1 | 110.6 | 113.4 | 117.4 | 121.3 | 119.3 | 154.5 | 154.5 |
| 103.4 | 103.4 | 100.2 | 100.2 | 100.6 | 101.9 | 103.6 | 106.0 | 111.2 | 113.8 | 118.2 | 121.6 | 118.4 | 154.8 | 154.8 |
| 104.7 | 104.7 | 102.5 | 101.4 | 102.0 | 104.1 | 107.0 | 111.0 | 114.1 | 119.0 | 120.2 | 115.7 | 115.7 | 154.4 | 154.4 |
| 104.5 | 104.5 | 105.6 | 105.5 | 103.3 | 104.2 | 107.1 | 111.6 | 113.7 | 119.1 | 118.1 | 112.8 | 112.8 | 153.9 | 153.9 |
| 103.8 | 103.8 | 103.9 | 106.9 | 105.6 | 105.7 | 108.4 | 111.6 | 115.2 | 119.4 | 116.0 | 112.1 | 112.1 | 154.0 | 154.0 |
| 102.8 | 103.4 | 103.1 | 104.2 | 105.6 | 106.7 | 109.4 | 111.1 | 115.0 | 116.7 | 114.8 | 109.3 | 109.3 | 152.7 | 152.7 |
| 101.2 | 102.2 | 103.0 | 104.8 | 104.1 | 104.7 | 107.1 | 109.3 | 111.5 | 114.1 | 116.0 | 113.7 | 109.2 | 152.4 | 152.4 |
| 101.2 | 102.6 | 103.3 | 105.2 | 105.8 | 107.7 | 109.8 | 111.8 | 113.4 | 114.6 | 113.5 | 108.0 | 108.0 | 152.1 | 152.1 |
| 100.8 | 101.4 | 103.4 | 104.2 | 105.3 | 107.7 | 109.6 | 111.4 | 113.8 | 113.4 | 112.6 | 106.8 | 106.8 | 151.9 | 151.9 |
| 100.5 | 100.8 | 102.8 | 104.4 | 104.3 | 106.9 | 108.8 | 110.6 | 112.2 | 111.7 | 111.8 | 106.0 | 106.0 | 151.1 | 151.1 |
| 98.5 | 99.9 | 102.1 | 103.4 | 103.0 | 105.0 | 107.0 | 108.4 | 109.8 | 110.6 | 110.6 | 104.5 | 104.5 | 149.9 | 149.9 |
| 96.6 | 98.0 | 102.7 | 102.5 | 102.6 | 105.2 | 105.7 | 107.5 | 107.8 | 108.4 | 109.6 | 103.1 | 103.1 | 149.5 | 149.5 |
| 93.8 | 95.4 | 98.0 | 101.1 | 100.2 | 103.1 | 101.6 | 104.2 | 104.7 | 104.8 | 105.8 | 101.7 | 101.7 | 147.4 | 147.4 |
| 88.0 | 91.1 | 92.4 | 94.3 | 97.0 | 97.5 | 98.2 | 98.6 | 102.5 | 102.3 | 103.7 | 100.0 | 97.6 | 146.0 | 146.0 |
| 85.8 | 87.3 | 91.0 | 93.2 | 95.5 | 94.7 | 97.6 | 98.5 | 98.8 | 99.8 | 100.8 | 101.2 | 95.7 | 146.1 | 146.1 |
| 80.9 | 83.9 | 87.8 | 89.1 | 90.1 | 90.2 | 92.9 | 92.0 | 95.0 | 97.4 | 98.7 | 97.4 | 92.2 | 145.8 | 145.8 |
| 75.2 | 78.3 | 82.5 | 83.3 | 82.6 | 83.0 | 85.7 | 85.7 | 89.7 | 92.4 | 95.8 | 91.4 | 85.0 | 146.5 | 146.5 |
| 70.1 | 72.5 | 77.6 | 76.8 | 76.3 | 77.3 | 77.6 | 80.1 | 84.4 | 87.7 | 92.2 | 85.0 | 79.8 | 145.5 | 145.5 |
| 66.8 | 69.4 | 75.5 | 72.9 | 71.3 | 72.7 | 73.9 | 75.6 | 81.2 | 86.2 | 90.3 | 81.7 | 75.2 | 153.5 | 153.5 |
| 113.0 | 113.5 | 113.7 | 114.7 | 115.6 | 115.8 | 117.6 | 119.7 | 122.8 | 125.6 | 129.3 | 130.7 | 128.8 | 160.1 | 160.1 |
| 125.7 | 126.4 | 126.8 | 127.8 | 128.6 | 128.4 | 129.8 | 132.2 | 135.3 | 138.4 | 142.2 | 141.9 | 138.9 | | |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 547 ACOUSTIC RANGE 12.2m(40ft.) ARC

SIZE MODEL-190cm²(29.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)

| NO EGA | RDG. NO. | RADIAL 150. FT. | VEHICLE | CONF LG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | PROC. DATE - MONTH 8 DAY 27 HR. 12.2 | | | | | | | | | | | | | | | | |
|--|----------|-----------------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | | | | | | | | | DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS) | | | | | | | | | | | | | | | | |
| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | | |
| | | | | | | | | | | | | | | (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) | (2.97) | (3.14) | (3.32) | (3.49) |
| 50 | 87.2 | 88.5 | 89.7 | 91.8 | 92.6 | 93.7 | 95.6 | 97.8 | 103.2 | 104.3 | 108.8 | 113.4 | 114.7 | 158.6 | | | | | | | | | | | | | | | | |
| 63 | 86.8 | 90.8 | 92.0 | 92.6 | 93.4 | 94.5 | 97.2 | 99.3 | 103.5 | 105.8 | 112.8 | 115.7 | 116.3 | 160.8 | | | | | | | | | | | | | | | | |
| 80 | 88.9 | 92.9 | 91.1 | 93.7 | 95.5 | 96.9 | 98.3 | 100.7 | 105.1 | 108.7 | 114.9 | 118.3 | 118.4 | 163.1 | | | | | | | | | | | | | | | | |
| 100 | 91.1 | 92.4 | 93.9 | 94.2 | 95.3 | 96.7 | 98.0 | 101.2 | 106.4 | 111.0 | 117.4 | 119.4 | 118.2 | 164.3 | | | | | | | | | | | | | | | | |
| 125 | 91.5 | 92.5 | 93.5 | 94.5 | 95.9 | 97.5 | 99.4 | 102.3 | 107.0 | 112.8 | 118.3 | 120.2 | 118.7 | 165.2 | | | | | | | | | | | | | | | | |
| 160 | 92.8 | 94.3 | 94.6 | 96.1 | 97.5 | 98.6 | 101.0 | 103.4 | 108.6 | 113.2 | 117.9 | 120.8 | 119.6 | 165.6 | | | | | | | | | | | | | | | | |
| 200 | 94.6 | 95.9 | 95.9 | 97.4 | 98.7 | 99.6 | 101.7 | 104.6 | 109.6 | 114.2 | 118.1 | 121.1 | 120.4 | 166.1 | | | | | | | | | | | | | | | | |
| 250 | 97.4 | 98.7 | 98.7 | 99.2 | 99.8 | 100.4 | 103.1 | 106.0 | 110.2 | 114.0 | 118.0 | 120.4 | 120.4 | 166.0 | | | | | | | | | | | | | | | | |
| 315 | 98.2 | 99.3 | 100.5 | 100.1 | 100.9 | 102.8 | 103.9 | 107.1 | 111.5 | 114.4 | 118.3 | 122.2 | 120.3 | 166.9 | | | | | | | | | | | | | | | | |
| 400 | 105.1 | 104.4 | 101.1 | 101.2 | 101.5 | 102.9 | 104.5 | 106.9 | 112.1 | 114.7 | 119.2 | 122.6 | 119.4 | 167.2 | | | | | | | | | | | | | | | | |
| 500 | 107.1 | 105.7 | 104.9 | 103.5 | 102.3 | 102.9 | 105.1 | 108.0 | 111.9 | 115.0 | 120.0 | 121.1 | 116.7 | 166.8 | | | | | | | | | | | | | | | | |
| 630 | 105.5 | 105.8 | 106.6 | 106.6 | 106.4 | 104.3 | 105.2 | 108.1 | 112.6 | 114.6 | 120.1 | 119.0 | 113.8 | 166.3 | | | | | | | | | | | | | | | | |
| 800 | 104.0 | 104.8 | 104.8 | 105.8 | 107.9 | 106.8 | 106.7 | 109.3 | 112.6 | 116.2 | 120.4 | 117.0 | 113.0 | 166.4 | | | | | | | | | | | | | | | | |
| 1000 | 103.6 | 103.9 | 104.4 | 104.2 | 105.3 | 106.6 | 107.8 | 110.2 | 112.1 | 116.0 | 117.7 | 115.8 | 110.4 | 165.2 | | | | | | | | | | | | | | | | |
| 1250 | 102.2 | 103.2 | 104.0 | 105.8 | 105.1 | 105.7 | 108.1 | 110.3 | 112.5 | 115.1 | 117.1 | 114.7 | 110.2 | 164.8 | | | | | | | | | | | | | | | | |
| 1600 | 101.6 | 102.9 | 103.7 | 104.4 | 106.3 | 106.9 | 108.8 | 110.9 | 112.9 | 114.5 | 115.7 | 114.6 | 109.1 | 164.6 | | | | | | | | | | | | | | | | |
| 2000 | 101.0 | 102.1 | 102.6 | 104.6 | 105.5 | 106.6 | 109.0 | 110.9 | 112.6 | 115.0 | 114.7 | 113.8 | 108.1 | 164.3 | | | | | | | | | | | | | | | | |
| 2500 | 99.3 | 101.9 | 102.3 | 104.3 | 105.8 | 105.7 | 108.3 | 110.3 | 112.0 | 113.7 | 113.1 | 113.2 | 107.4 | 163.6 | | | | | | | | | | | | | | | | |
| 3150 | 97.2 | 99.7 | 101.6 | 103.8 | 105.1 | 104.7 | 107.9 | 108.7 | 110.1 | 111.5 | 111.7 | 112.2 | 106.2 | 162.4 | | | | | | | | | | | | | | | | |
| 4000 | 96.2 | 98.7 | 100.1 | 102.8 | 104.6 | 104.7 | 107.4 | 107.9 | 109.6 | 109.9 | 110.5 | 111.8 | 105.2 | 161.9 | | | | | | | | | | | | | | | | |
| 5000 | 94.2 | 96.8 | 98.4 | 101.0 | 104.0 | 103.1 | 106.0 | 104.6 | 107.2 | 107.7 | 107.8 | 108.7 | 104.6 | 159.9 | | | | | | | | | | | | | | | | |
| 6300 | 91.9 | 94.9 | 96.3 | 98.1 | 100.9 | 101.3 | 102.5 | 106.3 | 106.2 | 107.5 | 103.9 | 101.5 | 158.4 | | | | | | | | | | | | | | | | | |
| 8000 | 90.9 | 94.5 | 96.1 | 98.4 | 100.6 | 99.8 | 102.8 | 101.6 | 103.9 | 105.0 | 105.9 | 106.4 | 100.9 | 158.5 | | | | | | | | | | | | | | | | |
| 10000 | 88.0 | 91.1 | 94.9 | 96.2 | 97.3 | 97.3 | 100.0 | 99.2 | 102.2 | 104.5 | 105.8 | 104.5 | 99.3 | 158.2 | | | | | | | | | | | | | | | | |
| 12500 | 84.8 | 87.9 | 92.1 | 92.9 | 92.3 | 92.6 | 94.6 | 95.3 | 99.4 | 102.1 | 105.5 | 101.0 | 94.6 | 157.4 | | | | | | | | | | | | | | | | |
| 16000 | 83.0 | 85.5 | 90.5 | 89.8 | 89.3 | 90.2 | 90.5 | 93.0 | 97.3 | 100.6 | 105.2 | 97.9 | 92.7 | 159.0 | | | | | | | | | | | | | | | | |
| 20000 | 85.2 | 87.7 | 93.8 | 91.2 | 90.2 | 91.1 | 92.2 | 93.9 | 99.6 | 104.5 | 108.6 | 100.1 | 93.6 | 165.9 | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 114.1 | 114.6 | 115.0 | 116.0 | 116.9 | 117.1 | 119.0 | 120.9 | 124.0 | 126.8 | 130.4 | 131.7 | 129.7 | 178.5 | | | | | | | | | | | | | | | | |
| PNOB | 124.0 | 125.8 | 126.5 | 128.2 | 129.4 | 129.4 | 131.9 | 133.4 | 135.9 | 138.0 | 139.5 | 140.0 | 136.5 | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 547 ACOUSTIC RANGE FULL-33m²(513in²)
 45.7m(150ft.) ARC SIZE

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--|-------|--------------------------|------|------|------|------|--|------|-------|-------|-------|-------|-------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NFA | 50 | 59.0 | 61.9 | 64.2 | 67.0 | 68.2 | 69.5 | 71.2 | 73.0 | 77.7 | 77.7 | 80.6 | 83.0 | 80.8 |
| (| 63 | 58.5 | 64.1 | 66.5 | 67.7 | 69.0 | 70.2 | 72.7 | 74.5 | 78.0 | 79.2 | 84.6 | 85.2 | 82.3 |
| (| 80 | 60.5 | 66.1 | 65.5 | 68.8 | 71.0 | 72.5 | 73.8 | 75.8 | 79.5 | 82.0 | 86.6 | 87.7 | 84.2 |
| (| 100 | 62.7 | 65.6 | 68.2 | 69.2 | 70.7 | 72.3 | 73.5 | 76.2 | 80.7 | 84.2 | 89.0 | 88.6 | 83.8 |
| (| 125 | 62.9 | 65.6 | 67.7 | 69.5 | 71.2 | 73.0 | 74.7 | 77.2 | 81.2 | 85.9 | 89.7 | 89.3 | 84.1 |
| (| 160 | 64.1 | 67.3 | 68.7 | 71.0 | 72.7 | 74.0 | 76.2 | 78.2 | 82.7 | 86.1 | 89.1 | 89.6 | 84.6 |
| (| 200 | 65.6 | 68.6 | 69.8 | 72.1 | 73.9 | 74.9 | 76.9 | 79.3 | 83.5 | 86.9 | 89.2 | 89.6 | 85.0 |
| (| 250 | 68.2 | 71.2 | 72.4 | 73.7 | 74.8 | 75.5 | 78.0 | 80.5 | 83.9 | 86.5 | 88.8 | 88.6 | 84.6 |
| (| 315 | 68.7 | 71.5 | 74.0 | 74.3 | 75.7 | 77.7 | 81.3 | 85.0 | 86.6 | 88.8 | 90.0 | 83.8 | |
| (| 400 | 75.1 | 76.3 | 74.3 | 75.2 | 76.0 | 79.0 | 80.9 | 85.3 | 86.6 | 89.2 | 89.8 | 82.0 | |
| (| 500 | 76.6 | 77.1 | 77.7 | 77.1 | 76.4 | 77.2 | 79.2 | 81.6 | 84.7 | 86.5 | 89.5 | 87.7 | 78.3 |
| (| 630 | 74.3 | 76.7 | 78.8 | 79.8 | 80.1 | 78.2 | 78.9 | 81.3 | 84.8 | 85.5 | 88.9 | 84.7 | 74.1 |
| (| 800 | 71.9 | 74.9 | 76.4 | 79.4 | 81.0 | 80.1 | 79.8 | 81.9 | 84.2 | 86.3 | 88.2 | 81.5 | 71.6 |
| (| 1000 | 70.4 | 73.1 | 75.2 | 76.0 | 77.7 | 79.2 | 80.2 | 82.0 | 83.0 | 85.2 | 84.5 | 78.9 | 66.9 |
| (| 1250 | 67.6 | 71.3 | 73.9 | 76.7 | 76.7 | 77.5 | 79.7 | 81.2 | 82.4 | 83.2 | 82.5 | 76.0 | 64.1 |
| (| 1600 | 65.1 | 69.4 | 72.1 | 74.1 | 76.6 | 77.4 | 79.1 | 80.6 | 81.3 | 81.0 | 79.2 | 73.4 | 59.3 |
| (| 2000 | 62.2 | 66.6 | 69.3 | 72.7 | 74.3 | 75.7 | 77.8 | 79.0 | 79.3 | 79.6 | 75.9 | 69.6 | 53.8 |
| (| 2500 | 57.2 | 63.7 | 66.5 | 70.1 | 72.5 | 72.7 | 75.0 | 76.1 | 76.3 | 75.4 | 70.9 | 64.6 | 46.8 |
| (| 3150 | 49.7 | 57.0 | 61.9 | 66.0 | 68.4 | 68.3 | 71.1 | 70.9 | 70.4 | 68.8 | 64.1 | 56.7 | 35.2 |
| (| 4000 | 40.6 | 49.3 | 54.6 | 59.6 | 62.7 | 63.2 | 65.5 | 64.7 | 64.1 | 60.4 | 54.9 | 45.7 | 18.7 |
| (| 5000 | 33.9 | 43.4 | 49.4 | 54.7 | 59.2 | 58.7 | 61.2 | 58.2 | 58.1 | 54.3 | 47.5 | 36.6 | 9.2 |
| (| 6300 | 17.9 | 30.1 | 37.2 | 42.6 | 47.2 | 48.3 | 48.4 | 46.9 | 47.2 | 41.4 | 33.5 | 13.9 | |
| (| 8000 | | 12.1 | 21.6 | 28.6 | 33.5 | 33.5 | 35.7 | 31.9 | 29.4 | 22.6 | 10.8 | | |
| (| 10000 | | | 6.7 | 11.4 | 12.6 | 14.1 | 9.7 | 6.2 | | | | | |
| (| 12500 | | | | | | | | | | | | | |
| (| 16000 | | | | | | | | | | | | | |
| (| 20000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 82.3 | 84.4 | 85.8 | 87.2 | 88.3 | 88.8 | 90.2 | 92.3 | 95.2 | 97.2 | 99.8 | 99.2 | 93.9 |
| PNDB | | 88.4 | 90.9 | 92.9 | 95.0 | 96.7 | 97.4 | 99.3 | 100.7 | 102.4 | 103.2 | 104.6 | 103.1 | 95.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **547** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRJC. DATE - MONTH 8 DAY 27 HR. 11.9
 MODEL SOUND PRESSURE LEVELS (S9. DEG. F. 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANIS)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RADIAL (12. M) | 30 | (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) | (2.97) |
| VEHICLE CELL41 | 100 | 87.1 | 95.9 | 93.4 | 95.5 | 96.5 | 95.7 | 97.5 | 98.5 | 101.4 | 99.0 | 102.9 | 103.6 | 107.2 | 141.6 |
| CONFIG NC56 | 125 | 85.3 | 89.9 | 90.4 | 93.4 | 95.5 | 97.1 | 98.2 | 98.9 | 100.1 | 95.9 | 105.6 | 107.6 | 108.1 | 142.6 |
| LOC C41 ANECH CH | 200 | 87.0 | 88.0 | 89.5 | 91.3 | 92.2 | 93.3 | 95.4 | 97.8 | 102.3 | 103.9 | 109.1 | 113.3 | 114.8 | 143.5 |
| DATE 06-14-76 | 250 | 86.1 | 89.6 | 91.3 | 91.9 | 93.2 | 94.3 | 97.0 | 98.9 | 102.8 | 105.9 | 112.9 | 115.5 | 116.6 | 149.0 |
| RUN CONFESHIGHFLN | 315 | 87.9 | 92.7 | 90.9 | 93.0 | 95.3 | 95.9 | 97.6 | 100.2 | 103.9 | 108.6 | 114.7 | 117.9 | 118.2 | 149.3 |
| TAPE X0548D | 400 | 90.7 | 91.7 | 93.5 | 93.8 | 94.8 | 96.0 | 97.6 | 100.8 | 105.7 | 111.0 | 117.5 | 119.7 | 118.5 | 151.3 |
| BAR 29.3 HG | 500 | 91.3 | 92.5 | 92.8 | 93.8 | 95.9 | 97.3 | 99.4 | 101.8 | 106.5 | 112.9 | 118.3 | 120.8 | 118.8 | 153.0 |
| (98773. N/H2) | 630 | 92.1 | 93.6 | 94.4 | 95.7 | 97.0 | 98.4 | 100.8 | 103.2 | 108.4 | 113.5 | 119.2 | 121.4 | 119.6 | 154.7 |
| TAMB 75. DEG F | 800 | 94.9 | 95.4 | 95.7 | 96.9 | 98.5 | 99.7 | 101.8 | 104.4 | 109.7 | 114.0 | 119.9 | 121.6 | 119.9 | 155.2 |
| (297. DEG K) | 1000 | 99.0 | 99.2 | 99.0 | 99.3 | 100.1 | 101.0 | 102.4 | 105.5 | 109.7 | 114.6 | 119.5 | 121.4 | 120.0 | 155.2 |
| TWET 68. DEG F | 1250 | 103.8 | 102.8 | 101.8 | 109.9 | 101.2 | 102.3 | 103.7 | 106.4 | 110.8 | 113.7 | 119.9 | 122.8 | 119.8 | 155.8 |
| (293. DEG K) | 1600 | 106.6 | 107.4 | 105.4 | 104.2 | 102.6 | 102.7 | 104.1 | 106.7 | 111.4 | 114.5 | 120.5 | 121.9 | 117.9 | 155.8 |
| HACT15.04 GM/M3 | 2000 | 107.7 | 107.7 | 107.5 | 108.0 | 106.4 | 103.7 | 103.1 | 107.8 | 113.5 | 114.6 | 121.0 | 120.4 | 115.5 | 155.6 |
| (.01504 KG/M3) | 2500 | 104.5 | 106.1 | 106.9 | 107.9 | 108.5 | 107.8 | 106.0 | 107.9 | 112.6 | 114.2 | 120.6 | 118.1 | 113.1 | 155.0 |
| JET SHIFT | 3150 | 103.8 | 104.6 | 105.1 | 106.6 | 107.7 | 108.3 | 108.4 | 108.9 | 112.6 | 115.4 | 119.6 | 116.3 | 112.1 | 154.5 |
| DIAMETER RATIO | 4000 | 101.8 | 103.8 | 103.9 | 105.1 | 105.0 | 106.1 | 108.2 | 110.6 | 111.6 | 115.4 | 117.7 | 114.8 | 109.1 | 153.5 |
| 9F/DM 1.00 | 5000 | 101.2 | 103.0 | 103.5 | 104.8 | 105.6 | 105.7 | 107.6 | 111.0 | 111.6 | 115.4 | 116.5 | 113.4 | 109.0 | 153.0 |
| | 6300 | 99.2 | 101.8 | 103.1 | 105.1 | 106.2 | 106.5 | 107.9 | 110.1 | 112.8 | 114.4 | 115.1 | 112.5 | 108.0 | 152.6 |
| | 8000 | 98.7 | 100.6 | 101.6 | 103.6 | 105.7 | 106.3 | 108.2 | 109.6 | 112.1 | 113.8 | 114.2 | 111.1 | 106.8 | 152.2 |
| | 10000 | 96.4 | 100.0 | 100.8 | 102.8 | 104.6 | 105.3 | 107.6 | 108.8 | 111.1 | 112.7 | 112.2 | 109.8 | 106.3 | 151.3 |
| | 12500 | 94.5 | 98.0 | 99.6 | 101.9 | 103.4 | 103.8 | 106.4 | 107.0 | 108.9 | 110.1 | 110.5 | 107.8 | 104.5 | 149.9 |
| | 16000 | 92.8 | 96.6 | 97.8 | 100.9 | 103.2 | 102.8 | 106.0 | 107.2 | 108.0 | 108.5 | 108.6 | 106.9 | 102.8 | 149.5 |
| | 20000 | 90.5 | 93.3 | 95.7 | 98.0 | 101.6 | 100.7 | 104.1 | 102.1 | 104.9 | 105.4 | 105.1 | 103.8 | 100.4 | 147.7 |
| | 31500 | 87.3 | 90.8 | 91.9 | 95.0 | 97.7 | 97.5 | 99.0 | 99.1 | 102.7 | 102.6 | 104.2 | 99.7 | 98.1 | 146.5 |
| | 40000 | 84.3 | 88.3 | 90.2 | 92.9 | 95.2 | 95.4 | 97.9 | 96.2 | 100.3 | 100.8 | 101.0 | 101.0 | 96.0 | 146.5 |
| | 50000 | 78.4 | 82.9 | 86.5 | 88.8 | 90.4 | 90.7 | 93.4 | 92.0 | 96.8 | 96.4 | 98.7 | 96.9 | 92.4 | 146.2 |
| | 63000 | 71.2 | 75.8 | 79.7 | 82.0 | 82.4 | 83.5 | 85.2 | 85.4 | 90.2 | 93.2 | 94.8 | 90.6 | 83.7 | 144.7 |
| | 80000 | 64.3 | 68.8 | 73.4 | 74.8 | 76.3 | 77.1 | 79.6 | 85.1 | 89.4 | 91.7 | 84.3 | 77.8 | 77.8 | 146.6 |
| OVERALL MEASURED | 80000 | 59.1 | 62.9 | 68.7 | 68.7 | 67.6 | 69.7 | 71.9 | 73.1 | 79.2 | 86.7 | 87.8 | 80.0 | 72.7 | 151.9 |
| OVERALL CALCULATED | 114.5 | 115.1 | 115.2 | 116.2 | 116.9 | 117.1 | 118.5 | 120.3 | 123.4 | 126.3 | 130.8 | 131.6 | 129.4 | 167.0 | |
| PHDB | 126.7 | 127.7 | 128.1 | 129.1 | 129.8 | 130.2 | 131.1 | 133.2 | 136.0 | 139.0 | 143.2 | 142.3 | 139.0 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **54B** ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-190cm²(29.4in²)

PROC. DATE - MONTH 8 DAY 27 HR. 12.2
 DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| (0.87) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.96) | (3.13) |
| ANGLES FROM INLET IN DEGREES (AND RADIANS) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.96) | (3.13) |
| NO EGA | 50 | 63 | 80 | 86.9 | 93.6 | 91.9 | 93.9 | 96.3 | 96.9 | 98.5 | 101.2 | 104.9 | 109.7 | 115.7 |
| RDG. NO. | 0. | 80 | 86.9 | 93.6 | 91.9 | 93.9 | 96.3 | 96.9 | 98.5 | 101.2 | 104.9 | 109.7 | 115.7 | 161.7 |
| RADIAL 150. FT. | 100 | 91.6 | 92.7 | 94.4 | 94.7 | 95.8 | 96.9 | 97.5 | 98.5 | 101.2 | 104.9 | 109.7 | 115.7 | 163.7 |
| (46. M) | 125 | 92.2 | 93.5 | 93.7 | 94.8 | 96.9 | 98.2 | 100.4 | 102.8 | 107.5 | 113.8 | 119.3 | 121.7 | 165.4 |
| VEHICLE | 160 | 93.1 | 94.6 | 95.3 | 96.6 | 98.0 | 99.3 | 101.7 | 104.1 | 109.3 | 114.4 | 120.1 | 122.3 | 166.4 |
| CONFIG | 200 | 95.8 | 96.4 | 99.9 | 97.9 | 99.5 | 100.6 | 102.7 | 105.4 | 110.6 | 114.9 | 120.9 | 122.6 | 167.1 |
| LOC C41 ANECH CH | 250 | 99.9 | 100.2 | 99.9 | 100.2 | 101.1 | 101.9 | 103.3 | 106.5 | 110.7 | 115.5 | 120.5 | 122.4 | 167.7 |
| DATE 06-14-76 | 315 | 104.7 | 103.8 | 102.8 | 101.8 | 102.2 | 103.3 | 104.7 | 107.3 | 111.8 | 114.6 | 120.8 | 123.7 | 168.3 |
| RUN CONF5HIGHFLW | 400 | 109.6 | 103.4 | 106.4 | 105.2 | 103.5 | 103.6 | 105.0 | 107.7 | 112.4 | 115.5 | 121.4 | 122.8 | 168.2 |
| TAPE X05480 | 500 | 108.6 | 108.7 | 108.4 | 109.0 | 107.3 | 104.7 | 106.1 | 108.7 | 112.4 | 115.5 | 122.0 | 121.4 | 168.0 |
| BAR 29.3 HG | 630 | 105.5 | 107.0 | 107.8 | 108.8 | 109.4 | 108.8 | 106.9 | 108.8 | 113.6 | 115.1 | 121.6 | 119.0 | 167.4 |
| (98773. N/M2) | 800 | 104.7 | 105.5 | 106.1 | 107.6 | 108.7 | 109.3 | 109.4 | 109.8 | 113.6 | 116.4 | 120.6 | 117.3 | 166.9 |
| TAMB 75. DEG F | 1000 | 102.8 | 104.9 | 104.9 | 105.2 | 106.0 | 107.1 | 109.3 | 111.7 | 112.6 | 116.5 | 118.7 | 115.8 | 165.9 |
| (297. DEG K) | 1250 | 102.2 | 104.0 | 104.5 | 105.8 | 106.6 | 106.7 | 108.4 | 112.0 | 112.8 | 116.4 | 117.6 | 114.5 | 165.1 |
| TWET 68. DEG F | 1600 | 100.3 | 102.9 | 104.2 | 106.2 | 107.3 | 107.6 | 109.0 | 111.2 | 113.9 | 115.5 | 116.2 | 113.6 | 164.6 |
| (293. DEG K) | 2000 | 100.0 | 101.8 | 102.9 | 104.9 | 107.0 | 107.6 | 109.5 | 110.9 | 113.4 | 115.0 | 115.4 | 112.3 | 163.7 |
| HACT15-04 GR/M3 | 2500 | 97.8 | 101.4 | 102.3 | 104.3 | 106.1 | 106.7 | 109.1 | 110.3 | 112.5 | 114.2 | 113.6 | 111.2 | 164.6 |
| (.01504 KG/M3) | 3150 | 96.2 | 99.7 | 101.3 | 103.5 | 105.1 | 105.5 | 108.1 | 108.7 | 110.6 | 111.8 | 112.2 | 109.5 | 162.3 |
| FREQ. SHIFT | 4000 | 95.0 | 98.7 | 99.9 | 103.1 | 105.4 | 105.0 | 108.1 | 107.4 | 110.1 | 110.6 | 110.7 | 109.0 | 161.9 |
| JET 6 | 5000 | 93.5 | 96.3 | 98.6 | 101.0 | 104.5 | 103.6 | 107.0 | 105.1 | 107.9 | 108.4 | 108.0 | 106.7 | 160.2 |
| DIAMETER RATIO | 6300 | 91.2 | 94.7 | 95.8 | 98.9 | 101.6 | 101.3 | 102.9 | 103.0 | 106.6 | 106.5 | 108.0 | 103.6 | 158.7 |
| DF/DM 4.18 | 8000 | 89.4 | 93.5 | 95.4 | 98.1 | 100.4 | 100.6 | 103.0 | 101.4 | 105.4 | 106.0 | 106.2 | 106.1 | 158.9 |
| | 10000 | 85.5 | 90.1 | 93.7 | 96.0 | 97.5 | 97.8 | 100.5 | 99.2 | 103.9 | 105.5 | 105.8 | 104.0 | 157.1 |
| | 12500 | 80.8 | 85.4 | 89.3 | 91.7 | 92.0 | 93.1 | 94.9 | 95.1 | 99.9 | 102.8 | 104.5 | 100.3 | 159.0 |
| | 16000 | 77.3 | 81.7 | 86.3 | 87.8 | 87.8 | 89.2 | 90.0 | 92.5 | 98.1 | 102.4 | 104.7 | 97.2 | 159.0 |
| 20000 | 77.4 | 81.2 | 87.1 | 87.0 | 85.9 | 88.1 | 90.2 | 91.4 | 97.6 | 105.0 | 106.1 | 98.3 | 91.1 | 164.3 |
| OVERALL CALCULATED | 115.5 | 116.1 | 116.3 | 117.4 | 118.2 | 118.3 | 119.9 | 121.5 | 124.6 | 127.5 | 131.8 | 132.5 | 130.2 | 179.3 |
| PNDB | 124.4 | 126.1 | 126.9 | 128.7 | 130.2 | 130.4 | 132.5 | 133.6 | 136.5 | 138.6 | 140.5 | 139.9 | 136.7 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 578 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA | STRAIGHT LINE 2400. FT. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | |
|--------------------|-------------------------|--------------------------|------|------|------|------|--|-------|-------|-------|-------|-------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| 50 | 59.8 | 62.4 | 65.0 | 67.5 | 68.7 | 70.0 | 72.0 | 74.0 | 77.7 | 78.2 | 81.8 | 83.8 | 81.8 |
| 63 | 58.8 | 63.9 | 66.7 | 68.0 | 69.7 | 71.0 | 73.5 | 75.0 | 78.2 | 80.2 | 85.6 | 86.0 | 83.5 |
| 80 | 60.5 | 66.9 | 66.2 | 69.0 | 71.8 | 72.5 | 74.0 | 76.3 | 79.2 | 83.0 | 87.3 | 88.2 | 84.9 |
| 100 | 63.2 | 65.8 | 68.7 | 69.7 | 71.2 | 72.5 | 74.0 | 76.7 | 81.0 | 85.2 | 90.0 | 89.8 | 85.0 |
| 125 | 63.6 | 66.6 | 67.9 | 69.7 | 72.2 | 73.7 | 75.7 | 77.7 | 81.7 | 86.9 | 90.7 | 90.8 | 85.1 |
| 160 | 64.3 | 67.5 | 69.4 | 71.5 | 73.2 | 74.7 | 77.0 | 79.0 | 83.4 | 87.3 | 91.4 | 91.1 | 85.6 |
| 200 | 66.9 | 69.1 | 70.5 | 72.6 | 74.6 | 75.9 | 77.9 | 80.1 | 84.5 | 87.7 | 91.9 | 91.1 | 85.5 |
| 250 | 70.7 | 72.7 | 73.7 | 74.7 | 76.0 | 77.0 | 78.3 | 81.0 | 84.4 | 88.0 | 91.3 | 90.6 | 85.1 |
| 315 | 75.2 | 76.0 | 76.3 | 76.1 | 76.9 | 78.2 | 79.4 | 81.6 | 85.3 | 86.9 | 91.3 | 91.5 | 84.3 |
| NFD (7500. RPM) | 80.3 | 79.5 | 79.2 | 78.0 | 78.2 | 79.5 | 81.7 | 85.5 | 87.3 | 91.4 | 90.1 | 81.5 | |
| AIRFLOW RATIO | 500 | 78.1 | 80.1 | 81.2 | 82.6 | 81.4 | 79.0 | 80.2 | 82.4 | 85.2 | 87.0 | 91.5 | 87.9 |
| WF/WM 4.18 | 630 | 74.3 | 77.9 | 80.1 | 82.0 | 83.1 | 82.7 | 80.6 | 82.0 | 85.8 | 86.0 | 90.4 | 84.7 |
| VEHICLE CELL41 | 800 | 72.6 | 75.7 | 77.7 | 80.2 | 81.8 | 82.6 | 82.5 | 82.4 | 86.5 | 88.5 | 81.7 | 71.6 |
| CONFIG NC56 | 1000 | 69.6 | 74.1 | 75.7 | 78.0 | 78.4 | 79.7 | 81.7 | 83.5 | 85.7 | 85.5 | 78.9 | 66.6 |
| LOC C41 ANECH CH | 1250 | 67.6 | 72.1 | 74.4 | 76.7 | 78.2 | 78.5 | 79.9 | 83.0 | 82.6 | 84.5 | 75.8 | 63.9 |
| DATE 06-14-76 | 2000 | 61.2 | 66.4 | 69.6 | 73.0 | 75.8 | 77.6 | 78.2 | 79.3 | 80.8 | 82.3 | 82.0 | 79.7 |
| RUN CONF5HIGHFLW | 2500 | 55.7 | 63.2 | 66.5 | 70.1 | 72.8 | 73.7 | 75.8 | 76.1 | 76.8 | 75.9 | 71.4 | 53.8 |
| TAPE X05480 | 3150 | 48.7 | 57.0 | 61.6 | 65.8 | 68.4 | 69.1 | 71.4 | 70.9 | 70.9 | 69.0 | 64.6 | 53.9 |
| FAN TIP SPEED | 4000 | 39.3 | 49.3 | 54.3 | 59.9 | 63.5 | 63.5 | 66.2 | 64.2 | 64.2 | 61.2 | 55.1 | 43.0 |
| FT/SEC | 5000 | 33.2 | 42.9 | 49.6 | 54.7 | 59.7 | 59.2 | 62.2 | 58.7 | 58.9 | 55.1 | 47.7 | 34.6 |
| | 6300 | 17.1 | 29.9 | 36.7 | 43.3 | 47.9 | 48.3 | 49.2 | 47.4 | 47.5 | 41.7 | 34.0 | 13.7 |
| | 8000 | | 11.1 | 20.9 | 28.4 | 33.3 | 34.3 | 35.9 | 31.7 | 30.9 | 23.6 | 11.0 | |
| | 10000 | | | 6.5 | 11.6 | 13.1 | 14.6 | 9.7 | 7.9 | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| | 20000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 84.5 | 86.6 | 87.7 | 89.3 | 90.1 | 90.4 | 91.3 | 93.0 | 95.7 | 98.0 | 101.5 | 100.3 | 94.6 |
| PNDB | 90.2 | 92.8 | 94.5 | 96.5 | 98.0 | 98.6 | 100.1 | 101.1 | 103.1 | 103.9 | 106.2 | 103.7 | 96.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **548** ACUSTIC RANGE 791.5m(2600ft.) SIDELINE SIZE FULL-.33m²(513in²)

| PAGE 1 FULL SCALE DATA REDUCTION PROGRAM | | | | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | PROC. DATE - MONTH 8 DAY 27 HR. 11.9 | | | | | | |
|---|-------|-------|-------|---|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|
| MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. | | | | | | |
| FREQ. (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.) | | | | 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. | | | | 136.6 137.0 138.0 141.8 146.5 147.1 148.5 148.5 149.0 149.9 148.4 148.9 148.4 148.1 148.1 147.9 147.5 146.1 145.4 143.7 142.1 141.9 139.4 140.1 146.0 | | | | | | |
| NO. EGA | 100 | 80.9 | 91.4 | 84.4 | 90.2 | 92.0 | 91.7 | 92.5 | 92.7 | 93.9 | 95.2 | 99.4 | 98.9 | 101.2 |
| RDG. NO. 0 | 125 | 80.3 | 84.9 | 86.1 | 83.9 | 90.2 | 91.4 | 92.5 | 93.9 | 95.2 | 99.4 | 101.2 | 101.6 | 101.9 |
| RADIAL (12. X) | 160 | 80.1 | 83.7 | 85.4 | 87.2 | 87.8 | 88.4 | 88.5 | 90.5 | 90.7 | 92.8 | 96.8 | 100.1 | 104.6 |
| VEHICLE CELL41 | 200 | 84.0 | 84.3 | 85.0 | 87.6 | 87.9 | 89.0 | 90.7 | 92.8 | 96.8 | 100.1 | 104.6 | 108.0 | 108.8 |
| CONFIG MCS6 | 250 | 82.6 | 85.8 | 87.1 | 88.1 | 89.2 | 90.1 | 93.3 | 94.5 | 94.8 | 96.6 | 103.2 | 108.9 | 110.6 |
| LOC C41 ANECH CH | 315 | 84.9 | 88.4 | 87.7 | 89.7 | 91.3 | 92.9 | 94.6 | 96.5 | 100.2 | 105.8 | 111.5 | 113.6 | 112.4 |
| DATE 06-14-75 | 400 | 86.9 | 88.2 | 89.7 | 90.3 | 91.6 | 93.0 | 94.6 | 97.7 | 102.2 | 108.0 | 113.5 | 114.7 | 112.7 |
| RUN CONFVELVEPN | 500 | 87.3 | 88.5 | 89.5 | 90.6 | 92.2 | 93.8 | 95.4 | 98.3 | 102.8 | 109.9 | 113.8 | 115.0 | 112.8 |
| TAPB 29.3 HG | 630 | 88.4 | 90.1 | 90.1 | 92.2 | 93.3 | 95.1 | 97.0 | 99.9 | 104.4 | 109.7 | 113.4 | 114.9 | 112.9 |
| (98807. N/F2) | 800 | 89.9 | 91.2 | 91.7 | 93.7 | 94.3 | 95.9 | 97.6 | 101.2 | 106.2 | 116.5 | 112.7 | 113.9 | 111.9 |
| TAPB 75. DEG F | 1000 | 91.5 | 92.5 | 93.5 | 94.8 | 95.6 | 97.0 | 98.6 | 102.0 | 106.0 | 116.5 | 111.5 | 112.4 | 111.5 |
| (297. DEG K) | 1250 | 91.3 | 93.1 | 94.8 | 94.9 | 96.0 | 97.3 | 99.5 | 102.6 | 107.6 | 109.7 | 111.6 | 114.0 | 111.3 |
| THET 68. DEG K | 1600 | 91.4 | 93.2 | 93.4 | 95.2 | 96.3 | 97.9 | 99.3 | 102.5 | 107.4 | 109.8 | 111.7 | 113.4 | 110.9 |
| (293. DEG K) | 2000 | 91.7 | 93.0 | 94.5 | 95.5 | 96.6 | 97.7 | 100.6 | 104.0 | 107.7 | 109.6 | 111.8 | 113.2 | 110.2 |
| HACTT5.21 GM/M3 | 2500 | 91.8 | 93.8 | 94.9 | 95.6 | 96.7 | 98.3 | 103.5 | 103.9 | 108.9 | 109.9 | 111.9 | 113.3 | 109.6 |
| (.01521 KG/M3) | 3150 | 92.0 | 93.6 | 94.6 | 96.0 | 97.9 | 98.6 | 101.2 | 104.6 | 108.6 | 110.4 | 112.6 | 112.8 | 109.3 |
| FREQ. SHIFT | 4000 | 91.3 | 93.3 | 94.6 | 96.4 | 97.4 | 98.6 | 101.5 | 105.1 | 107.9 | 110.7 | 111.9 | 111.3 | 107.3 |
| JET | 5000 | 91.4 | 94.5 | 95.5 | 97.3 | 97.4 | 99.5 | 101.9 | 105.3 | 107.5 | 110.4 | 111.5 | 110.7 | 106.7 |
| DIAMETER RATIO | 6300 | 92.0 | 96.5 | 96.6 | 97.3 | 98.9 | 100.3 | 103.2 | 105.3 | 107.8 | 109.7 | 111.1 | 110.0 | 106.0 |
| DF/DM 1.00 | 8000 | 92.0 | 95.8 | 96.9 | 97.9 | 99.0 | 100.6 | 103.7 | 105.4 | 107.6 | 109.5 | 109.9 | 108.8 | 105.3 |
| | 10000 | 89.4 | 94.2 | 96.1 | 98.3 | 99.9 | 99.7 | 103.1 | 105.6 | 106.6 | 108.0 | 109.1 | 108.0 | 105.2 |
| | 12500 | 87.0 | 91.5 | 93.4 | 96.4 | 98.7 | 97.3 | 102.7 | 103.8 | 104.6 | 105.8 | 106.5 | 106.8 | 103.0 |
| | 16000 | 85.1 | 90.1 | 92.5 | 95.9 | 97.7 | 93.1 | 101.7 | 101.0 | 103.5 | 104.5 | 104.6 | 104.9 | 101.3 |
| | 20000 | 81.7 | 86.8 | 89.9 | 92.8 | 96.0 | 95.9 | 99.8 | 97.9 | 101.4 | 101.2 | 100.8 | 102.0 | 99.7 |
| | 25000 | 78.5 | 84.0 | 86.4 | 90.0 | 92.5 | 92.4 | 94.7 | 95.3 | 98.7 | 97.6 | 99.6 | 97.5 | 96.6 |
| | 31500 | 75.8 | 81.8 | 84.4 | 88.2 | 90.4 | 90.4 | 93.6 | 92.4 | 95.0 | 95.5 | 96.5 | 97.4 | 94.2 |
| | 40000 | 69.8 | 76.1 | 80.4 | 83.3 | 85.1 | 85.1 | 88.6 | 88.2 | 91.2 | 93.0 | 92.9 | 93.3 | 90.6 |
| | 50000 | 61.6 | 67.7 | 72.9 | 75.7 | 78.8 | 77.7 | 79.7 | 80.6 | 85.4 | 86.1 | 86.7 | 86.1 | 82.4 |
| | 63000 | 54.8 | 60.2 | 65.7 | 67.7 | 69.5 | 70.2 | 72.0 | 74.2 | 79.8 | 82.3 | 84.6 | 79.4 | 74.4 |
| | 80000 | 49.0 | 53.8 | 59.6 | 59.8 | 63.5 | 65.1 | 67.0 | 66.7 | 75.1 | 81.3 | 80.9 | 73.5 | 69.9 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 103.1 | 105.9 | 104.9 | 106.6 | 109.9 | 111.0 | 113.6 | 116.0 | 119.3 | 122.0 | 124.4 | 125.4 | 123.2 | |
| PNDB | 115.8 | 118.4 | 119.0 | 120.6 | 121.8 | 122.8 | 123.8 | 125.3 | 129.5 | 132.0 | 134.5 | 136.7 | 137.2 | 134.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5107 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-190cm²(29.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. MONTH 8 DAY 27 HR. 12.2
 PROC. DATE - MONTH 8 DAY 27 HR. 12.2
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA | FREQ. (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.) | | | | | | | | | | PWL | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. | 160. | 170. |
| 50 | 85.0 | 85.2 | 86.0 | 86.5 | 88.9 | 90.0 | 91.6 | 93.8 | 97.7 | 101.1 | 105.5 | 108.9 | 109.7 | 154.2 | |
| 63 | 83.5 | 86.8 | 88.0 | 89.1 | 90.2 | 91.0 | 93.9 | 95.6 | 99.5 | 104.1 | 109.8 | 111.5 | 111.5 | 157.0 | |
| 80 | 85.9 | 89.4 | 88.6 | 90.7 | 92.3 | 93.0 | 95.5 | 97.4 | 101.1 | 106.7 | 112.4 | 113.4 | 113.4 | 159.5 | |
| 100 | 87.9 | 89.2 | 90.7 | 91.2 | 92.5 | 93.9 | 95.5 | 98.7 | 103.2 | 109.0 | 114.4 | 115.6 | 113.7 | 160.9 | |
| 125 | 88.2 | 89.5 | 90.5 | 91.5 | 93.1 | 94.7 | 96.4 | 99.3 | 103.7 | 110.8 | 114.8 | 115.9 | 113.7 | 161.4 | |
| 160 | 89.3 | 91.1 | 91.1 | 93.1 | 94.2 | 96.1 | 98.0 | 100.9 | 105.3 | 110.7 | 114.4 | 115.8 | 113.8 | 161.4 | |
| 200 | 90.8 | 92.1 | 92.6 | 94.6 | 95.2 | 96.9 | 98.7 | 102.1 | 107.1 | 111.4 | 113.6 | 114.8 | 112.9 | 161.4 | |
| 250 | 92.4 | 93.4 | 94.4 | 95.7 | 96.6 | 97.9 | 99.6 | 103.0 | 106.9 | 111.3 | 112.5 | 113.4 | 112.4 | 160.4 | |
| 315 | 92.2 | 94.0 | 95.8 | 96.9 | 98.3 | 100.4 | 103.6 | 108.5 | 110.6 | 112.6 | 115.0 | 112.3 | 112.3 | 160.8 | |
| 400 | 92.3 | 94.1 | 94.4 | 96.2 | 97.3 | 98.9 | 100.3 | 103.4 | 108.4 | 110.7 | 112.7 | 114.3 | 111.9 | 160.8 | |
| 500 | 92.6 | 93.9 | 95.4 | 96.5 | 97.6 | 98.7 | 101.6 | 105.0 | 108.7 | 110.5 | 112.7 | 114.1 | 111.2 | 160.8 | |
| 630 | 92.8 | 94.8 | 95.8 | 96.6 | 97.7 | 99.3 | 101.4 | 104.8 | 109.8 | 110.9 | 112.8 | 114.3 | 110.5 | 161.0 | |
| 800 | 93.0 | 94.5 | 95.6 | 97.6 | 98.9 | 99.5 | 102.2 | 105.6 | 109.8 | 111.4 | 113.6 | 113.8 | 110.3 | 161.3 | |
| 1000 | 92.3 | 94.4 | 95.6 | 97.4 | 98.3 | 99.6 | 102.5 | 106.2 | 108.9 | 111.7 | 112.9 | 112.3 | 108.4 | 160.8 | |
| 1250 | 92.4 | 95.5 | 96.5 | 98.3 | 98.4 | 100.5 | 102.9 | 106.3 | 108.5 | 111.4 | 112.6 | 111.7 | 107.7 | 160.6 | |
| 1600 | 93.1 | 97.6 | 97.7 | 98.4 | 100.0 | 101.4 | 104.3 | 106.4 | 108.9 | 110.8 | 112.2 | 111.1 | 107.1 | 160.5 | |
| 2000 | 93.2 | 97.1 | 98.1 | 99.1 | 100.2 | 101.8 | 104.9 | 106.6 | 108.9 | 110.7 | 111.2 | 110.1 | 106.6 | 160.3 | |
| 2500 | 90.8 | 95.7 | 97.5 | 99.7 | 101.3 | 101.2 | 104.6 | 107.0 | 108.0 | 109.4 | 110.6 | 109.4 | 106.7 | 159.9 | |
| 3150 | 88.7 | 93.2 | 95.1 | 98.0 | 100.3 | 101.0 | 104.3 | 105.4 | 106.3 | 107.5 | 108.2 | 108.5 | 104.7 | 158.6 | |
| 4000 | 87.2 | 92.2 | 94.6 | 98.1 | 99.9 | 100.2 | 103.9 | 103.1 | 105.6 | 106.6 | 106.7 | 107.0 | 103.5 | 157.8 | |
| 5000 | 84.7 | 89.8 | 92.9 | 95.8 | 99.0 | 98.9 | 102.8 | 100.8 | 104.4 | 104.1 | 103.8 | 105.0 | 102.6 | 156.2 | |
| 6300 | 82.4 | 87.9 | 90.3 | 93.9 | 96.3 | 96.3 | 98.6 | 99.2 | 102.6 | 101.7 | 103.5 | 101.3 | 100.4 | 154.5 | |
| 8000 | 80.9 | 87.0 | 89.6 | 93.3 | 95.6 | 95.6 | 98.7 | 97.6 | 100.1 | 100.7 | 101.7 | 102.6 | 99.3 | 154.4 | |
| 10000 | 77.0 | 83.3 | 87.6 | 90.4 | 92.2 | 92.3 | 95.7 | 95.4 | 98.4 | 100.2 | 100.0 | 100.5 | 97.8 | 153.6 | |
| 12500 | 71.2 | 77.3 | 82.5 | 85.3 | 86.4 | 87.3 | 89.3 | 90.3 | 95.0 | 97.7 | 98.4 | 95.7 | 92.1 | 151.8 | |
| 16000 | 67.7 | 73.1 | 78.7 | 80.7 | 82.4 | 83.1 | 84.9 | 87.2 | 92.7 | 95.2 | 97.6 | 92.4 | 87.4 | 152.5 | |
| 20000 | 67.3 | 72.1 | 77.9 | 78.1 | 81.8 | 83.4 | 85.4 | 85.0 | 93.5 | 99.6 | 99.2 | 91.7 | 88.2 | 158.4 | |
| OVERALL CALCULATED | 104.1 | 106.9 | 108.1 | 109.8 | 111.3 | 112.3 | 115.0 | 117.2 | 120.5 | 123.2 | 125.5 | 126.4 | 124.1 | | |
| PND | 115.3 | 119.1 | 120.7 | 122.8 | 124.4 | 125.1 | 128.2 | 129.8 | 132.2 | 134.1 | 135.6 | 135.6 | 132.8 | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION *5* TEST POINT *5107* ACOUSTIC RANGE *45.7m(150ft.)* ARC SIZE *FULL-33m²(513in²)*

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| 50 | 56.8 | 58.6 | 60.5 | 63.7 | 64.5 | 65.7 | 67.2 | 69.0 | 72.2 | 74.4 | 77.3 | 78.5 | 75.8 |
| 63 | 55.3 | 60.1 | 62.5 | 64.2 | 65.7 | 66.7 | 69.5 | 70.7 | 74.0 | 77.4 | 81.6 | 81.0 | 77.5 |
| 80 | 57.5 | 62.6 | 63.0 | 65.8 | 67.8 | 69.5 | 71.0 | 72.5 | 75.5 | 80.0 | 84.1 | 84.0 | 79.2 |
| 100 | 59.4 | 62.3 | 65.0 | 66.2 | 68.0 | 69.5 | 71.0 | 73.7 | 77.5 | 82.2 | 86.0 | 84.8 | 79.3 |
| 125 | 59.6 | 62.6 | 64.7 | 66.5 | 70.2 | 71.7 | 74.2 | 77.9 | 83.9 | 86.2 | 85.0 | 79.1 | |
| 160 | 60.6 | 64.0 | 65.2 | 68.0 | 69.5 | 71.5 | 73.2 | 75.7 | 79.4 | 83.6 | 85.6 | 84.6 | 78.9 |
| 200 | 61.9 | 64.8 | 66.5 | 69.3 | 70.4 | 72.1 | 73.9 | 76.8 | 81.0 | 84.7 | 83.4 | 77.5 | |
| 250 | 63.2 | 66.0 | 68.2 | 70.2 | 71.5 | 73.0 | 74.5 | 77.5 | 80.7 | 83.8 | 83.3 | 81.6 | 76.6 |
| 315 | 62.7 | 66.3 | 69.3 | 70.1 | 71.7 | 73.2 | 75.2 | 77.8 | 82.0 | 82.9 | 83.0 | 82.8 | 75.8 |
| 400 | 62.4 | 66.0 | 67.5 | 70.2 | 71.7 | 73.5 | 74.7 | 77.4 | 81.5 | 82.6 | 82.7 | 81.6 | 74.5 |
| 500 | 62.1 | 65.4 | 68.2 | 70.1 | 71.7 | 73.0 | 75.7 | 78.6 | 81.5 | 82.0 | 82.2 | 80.7 | 72.8 |
| 630 | 61.5 | 65.7 | 68.1 | 69.8 | 71.4 | 73.2 | 75.1 | 78.0 | 82.1 | 81.8 | 81.6 | 79.9 | 70.9 |
| 800 | 60.9 | 64.7 | 67.2 | 70.2 | 72.0 | 72.8 | 75.3 | 78.2 | 81.4 | 81.5 | 81.5 | 78.2 | 68.9 |
| 1000 | 59.1 | 63.6 | 66.5 | 69.3 | 70.7 | 72.2 | 74.9 | 78.0 | 79.7 | 81.0 | 79.8 | 75.4 | 64.9 |
| 1250 | 57.9 | 63.6 | 66.4 | 69.2 | 69.9 | 72.3 | 74.4 | 77.2 | 78.4 | 79.5 | 78.0 | 73.0 | 61.6 |
| 1600 | 56.6 | 64.1 | 66.1 | 68.1 | 70.3 | 71.9 | 74.6 | 76.1 | 77.3 | 77.3 | 75.7 | 69.9 | 57.3 |
| 2000 | 54.4 | 61.6 | 64.8 | 67.2 | 69.0 | 70.9 | 73.8 | 74.7 | 75.6 | 75.3 | 72.4 | 65.8 | 52.3 |
| 2500 | 48.7 | 57.4 | 61.8 | 65.6 | 68.0 | 68.2 | 71.3 | 72.8 | 72.3 | 71.2 | 68.4 | 60.9 | 46.0 |
| 3150 | 41.2 | 50.5 | 55.4 | 60.3 | 63.6 | 64.6 | 67.6 | 67.7 | 66.6 | 64.8 | 60.6 | 52.9 | 33.7 |
| 4000 | 31.6 | 42.8 | 49.0 | 54.9 | 58.0 | 58.7 | 62.0 | 59.9 | 60.0 | 57.2 | 51.1 | 41.0 | 17.0 |
| 5000 | 24.4 | 36.4 | 43.8 | 49.4 | 54.1 | 54.4 | 57.9 | 54.5 | 55.4 | 50.8 | 43.5 | 32.9 | 7.2 |
| 6300 | 8.3 | 23.1 | 31.2 | 38.3 | 42.7 | 43.3 | 44.9 | 43.7 | 43.5 | 36.9 | 29.4 | 11.4 | |
| 8000 | 4.6 | 15.1 | 23.6 | 28.5 | 29.3 | 31.6 | 27.9 | 25.6 | 18.3 | 6.5 | | | |
| 10000 | | | 0.9 | 6.3 | 7.5 | 9.8 | 5.9 | 2.3 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| 20000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.6 | 76.5 | 78.8 | 81.0 | 82.6 | 84.2 | 86.3 | 88.8 | 91.9 | 93.9 | 95.0 | 93.8 | 88.0 |
| PNDB | 77.6 | 83.6 | 86.5 | 89.4 | 91.5 | 92.8 | 95.4 | 96.9 | 98.8 | 99.4 | 99.2 | 96.9 | 89.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5107 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 25 HR. 21.8
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANS)
 40. 50. 60. 70. 80.
 90. 100. 110. 120. 130. 140. 150. 160.
 FREQ. (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)(3.2)(3.4)(3.6)(3.8)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 100 | 80.9 | 80.7 | 88.4 | 90.0 | 91.0 | 91.4 | 91.5 | 92.0 | 93.2 | 94.7 | 96.9 | 98.4 | 100.7 | 136.0 | |
| 125 | 80.3 | 85.4 | 86.4 | 88.2 | 90.5 | 91.9 | 92.2 | 93.4 | 92.6 | 91.7 | 99.4 | 101.8 | 102.1 | 136.8 | |
| 160 | 80.6 | 83.7 | 86.4 | 87.2 | 88.0 | 88.0 | 89.7 | 89.7 | 91.9 | 97.0 | 101.4 | 102.6 | 104.2 | 137.7 | |
| 200 | 83.5 | 84.0 | 85.8 | 87.6 | 89.0 | 89.9 | 92.1 | 95.5 | 100.1 | 103.1 | 103.1 | 107.3 | 108.3 | 141.1 | |
| 250 | 82.8 | 85.6 | 87.1 | 87.6 | 88.5 | 89.8 | 92.0 | 93.9 | 96.8 | 102.2 | 107.6 | 109.5 | 109.8 | 143.6 | |
| 315 | 84.2 | 88.2 | 87.2 | 89.2 | 91.1 | 92.2 | 93.6 | 95.7 | 99.4 | 105.3 | 110.0 | 112.4 | 111.7 | 146.0 | |
| 400 | 86.4 | 88.0 | 89.5 | 89.5 | 91.3 | 92.7 | 93.8 | 95.8 | 101.2 | 107.5 | 112.2 | 113.7 | 112.2 | 147.6 | |
| 500 | 87.3 | 88.0 | 89.3 | 89.8 | 91.4 | 93.5 | 95.4 | 97.8 | 101.8 | 108.9 | 112.1 | 113.8 | 112.0 | 147.8 | |
| 630 | 87.4 | 89.4 | 90.1 | 91.7 | 93.0 | 94.1 | 95.3 | 98.2 | 103.4 | 110.9 | 112.6 | 111.1 | | 147.8 | |
| 800 | 89.4 | 90.7 | 91.2 | 92.5 | 94.0 | 95.7 | 97.3 | 102.2 | 105.2 | 110.4 | 111.1 | 109.9 | | 146.9 | |
| 1000 | 91.2 | 92.0 | 93.0 | 94.0 | 95.4 | 96.7 | 98.4 | 101.3 | 105.5 | 109.8 | 109.5 | 110.5 | 109.5 | 146.7 | |
| 1250 | 90.8 | 92.3 | 94.8 | 94.9 | 95.5 | 96.8 | 98.7 | 102.1 | 107.1 | 109.4 | 110.1 | 111.8 | 109.8 | 147.3 | |
| 1600 | 90.9 | 92.7 | 93.2 | 94.5 | 96.1 | 98.4 | 99.1 | 102.2 | 107.2 | 110.3 | 111.0 | 112.4 | 111.4 | 148.1 | |
| 2000 | 91.4 | 93.2 | 94.5 | 95.0 | 96.4 | 98.0 | 100.1 | 103.5 | 107.5 | 110.6 | 110.8 | 112.7 | 111.2 | 148.3 | |
| 2500 | 91.3 | 92.8 | 94.6 | 96.1 | 97.0 | 98.3 | 100.5 | 103.6 | 107.6 | 110.2 | 111.6 | 112.1 | 110.3 | 148.2 | |
| 3150 | 91.8 | 93.3 | 94.3 | 95.6 | 97.7 | 98.3 | 100.7 | 104.4 | 108.6 | 110.9 | 111.4 | 111.3 | 109.6 | 148.4 | |
| 4000 | 91.0 | 93.1 | 94.9 | 95.6 | 97.2 | 98.6 | 100.7 | 105.1 | 107.1 | 110.7 | 110.2 | 109.8 | 107.3 | 147.6 | |
| 5000 | 90.7 | 93.7 | 95.0 | 96.3 | 97.4 | 99.2 | 101.4 | 105.0 | 106.8 | 109.9 | 109.6 | 109.0 | 106.5 | 147.2 | |
| 6300 | 91.2 | 95.3 | 96.4 | 97.1 | 98.2 | 99.8 | 102.2 | 104.9 | 106.6 | 109.2 | 108.4 | 108.3 | 106.1 | 146.9 | |
| 8000 | 90.3 | 94.4 | 95.7 | 97.9 | 98.7 | 99.9 | 102.5 | 104.7 | 106.2 | 108.8 | 107.5 | 107.6 | 105.4 | 146.8 | |
| 10000 | 87.9 | 92.3 | 94.4 | 97.4 | 99.7 | 99.0 | 101.7 | 104.1 | 105.1 | 107.3 | 105.7 | 106.3 | 104.0 | 146.0 | |
| 12500 | 85.1 | 88.8 | 92.0 | 94.9 | 97.2 | 98.6 | 100.5 | 101.6 | 103.2 | 104.9 | 103.3 | 104.6 | 103.1 | 144.5 | |
| 16000 | 83.7 | 87.2 | 90.1 | 93.3 | 95.8 | 96.7 | 100.1 | 99.6 | 101.9 | 102.6 | 102.0 | 103.5 | 100.9 | 143.7 | |
| 20000 | 80.1 | 84.2 | 87.1 | 90.2 | 94.2 | 94.3 | 97.7 | 96.8 | 99.4 | 99.4 | 98.3 | 99.9 | 97.6 | 141.8 | |
| 25000 | 77.5 | 81.0 | 83.9 | 87.2 | 90.2 | 90.7 | 93.0 | 93.9 | 96.5 | 95.9 | 96.9 | 95.0 | 94.3 | 139.9 | |
| 31500 | 75.0 | 78.9 | 82.1 | 85.0 | 87.8 | 88.2 | 91.4 | 91.1 | 93.6 | 93.2 | 93.8 | 91.5 | | 139.6 | |
| 40000 | 70.5 | 73.9 | 78.8 | 80.8 | 81.9 | 82.9 | 86.9 | 86.3 | 89.3 | 90.5 | 90.3 | 90.6 | 87.2 | 136.9 | |
| 50000 | 65.2 | 68.7 | 72.5 | 74.2 | 74.6 | 75.9 | 79.9 | 79.1 | 83.2 | 85.8 | 86.4 | 84.3 | 81.7 | 137.5 | |
| 63000 | 60.9 | 63.2 | 67.9 | 67.5 | 68.7 | 74.0 | 73.1 | 76.9 | 81.6 | 80.4 | 77.8 | 76.0 | | 136.2 | |
| 80000 | 58.2 | 60.7 | 66.7 | 63.5 | 63.1 | 64.8 | 72.9 | 67.4 | 72.2 | 78.1 | 77.9 | 73.4 | 74.0 | 144.3 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | |
| PND8 | 102.5 | 105.0 | 106.4 | 107.8 | 109.4 | 110.5 | 112.7 | 115.4 | 116.5 | 121.8 | 122.8 | 123.9 | 122.6 | | |
| | 115.4 | 117.5 | 118.9 | 119.9 | 121.5 | 122.7 | 124.7 | 128.2 | 131.4 | 134.5 | 135.2 | 135.8 | 134.3 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5108** ACUSTIC RANGE 12.2m(40ft.) ARC MODEL-190cm²(29.4in²) SIZE

| RDG. NO. | NO EGA | RADIAL 150. FT. | (46. M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | PWL | | | | | | | | |
|--------------------|--------|-----------------|----------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
| 50 | 84.5 | 35.0 | 86.7 | 88.5 | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.14) | (3.32) | 153.5 |
| 63 | 83.8 | 26.5 | 88.0 | 88.6 | 89.4 | 90.2 | 90.8 | 91.5 | 92.2 | 92.9 | 93.6 | 94.3 | 95.0 | 95.7 | 96.4 | 97.1 | 97.8 | 98.5 | 156.0 |
| 80 | 85.1 | 89.1 | 88.1 | 89.2 | 90.2 | 91.2 | 92.0 | 92.8 | 93.5 | 94.2 | 94.9 | 95.6 | 96.3 | 97.0 | 97.7 | 98.4 | 99.1 | 99.8 | 158.5 |
| 125 | 88.2 | 89.0 | 90.2 | 90.8 | 91.6 | 92.4 | 93.1 | 93.8 | 94.5 | 95.2 | 95.9 | 96.6 | 97.3 | 98.0 | 98.7 | 99.4 | 100.1 | 100.8 | 160.0 |
| 160 | 88.3 | 90.3 | 91.1 | 92.6 | 93.4 | 94.2 | 95.0 | 95.8 | 96.6 | 97.4 | 98.2 | 99.0 | 99.8 | 100.6 | 101.4 | 102.2 | 103.0 | 103.8 | 160.2 |
| 200 | 90.3 | 91.6 | 92.1 | 93.4 | 94.2 | 95.0 | 95.8 | 96.6 | 97.4 | 98.2 | 99.0 | 99.8 | 100.6 | 101.4 | 102.2 | 103.0 | 103.8 | 104.6 | 159.5 |
| 250 | 92.2 | 92.9 | 93.9 | 95.0 | 96.3 | 97.7 | 99.3 | 101.1 | 103.1 | 105.4 | 108.0 | 110.4 | 112.8 | 115.2 | 117.6 | 120.0 | 122.4 | 124.8 | 159.1 |
| 315 | 91.7 | 93.3 | 95.8 | 95.8 | 96.4 | 97.8 | 99.7 | 103.1 | 108.0 | 114.1 | 120.4 | 127.1 | 133.8 | 140.5 | 147.2 | 153.9 | 160.6 | 167.3 | 159.7 |
| 400 | 91.8 | 93.6 | 94.1 | 95.4 | 97.0 | 99.4 | 100.0 | 103.2 | 108.1 | 113.2 | 118.3 | 123.4 | 128.5 | 133.6 | 138.7 | 143.8 | 148.9 | 154.0 | 160.5 |
| 500 | 92.4 | 94.2 | 95.5 | 96.0 | 97.3 | 98.9 | 101.1 | 104.5 | 108.5 | 112.5 | 116.5 | 120.5 | 124.5 | 128.5 | 132.5 | 136.5 | 140.5 | 144.5 | 160.7 |
| 630 | 92.3 | 93.8 | 95.6 | 97.1 | 97.9 | 99.3 | 101.4 | 104.6 | 108.6 | 112.6 | 116.6 | 120.6 | 124.6 | 128.6 | 132.6 | 136.6 | 140.6 | 144.6 | 160.7 |
| 800 | 92.3 | 94.3 | 95.8 | 96.6 | 98.7 | 99.6 | 101.7 | 105.4 | 109.6 | 113.9 | 118.2 | 122.5 | 126.8 | 131.1 | 135.4 | 139.7 | 144.0 | 148.3 | 160.8 |
| 1000 | 92.1 | 94.1 | 95.9 | 96.7 | 98.3 | 99.6 | 101.8 | 106.2 | 111.8 | 117.4 | 123.0 | 128.6 | 134.2 | 139.8 | 145.4 | 151.0 | 156.6 | 162.2 | 159.6 |
| 1250 | 91.7 | 94.8 | 96.0 | 97.5 | 98.4 | 100.3 | 102.4 | 106.1 | 110.9 | 115.7 | 120.5 | 125.3 | 130.1 | 134.9 | 139.7 | 144.5 | 149.3 | 154.1 | 159.4 |
| 1600 | 92.3 | 96.4 | 97.5 | 98.2 | 99.3 | 100.9 | 103.3 | 106.0 | 107.7 | 110.3 | 112.9 | 115.5 | 118.1 | 120.7 | 123.3 | 125.9 | 128.5 | 131.1 | 133.7 |
| 2000 | 91.5 | 95.6 | 96.9 | 99.2 | 100.0 | 101.1 | 103.7 | 105.9 | 107.4 | 110.0 | 112.6 | 115.2 | 117.8 | 120.4 | 123.0 | 125.6 | 128.2 | 130.8 | 133.4 |
| 2500 | 89.4 | 93.7 | 95.8 | 98.8 | 101.1 | 100.5 | 103.1 | 105.6 | 108.7 | 111.7 | 114.7 | 117.7 | 120.7 | 123.7 | 126.7 | 129.7 | 132.7 | 135.7 | 138.7 |
| 3150 | 86.8 | 90.5 | 93.7 | 96.5 | 98.9 | 100.3 | 102.2 | 103.3 | 104.9 | 106.6 | 108.3 | 110.0 | 111.7 | 113.4 | 115.1 | 116.8 | 118.5 | 120.2 | 121.9 |
| 4000 | 85.8 | 89.3 | 92.3 | 95.9 | 98.0 | 98.8 | 102.2 | 101.7 | 104.0 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 |
| 5000 | 83.1 | 87.2 | 90.1 | 93.2 | 97.2 | 97.3 | 100.7 | 99.7 | 102.3 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 |
| 6300 | 81.4 | 84.9 | 87.8 | 91.1 | 94.1 | 94.6 | 96.8 | 97.7 | 100.3 | 99.7 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 |
| 8000 | 80.2 | 84.1 | 87.3 | 90.2 | 93.0 | 93.4 | 96.6 | 96.2 | 98.8 | 98.4 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| 10000 | 77.7 | 81.0 | 85.9 | 88.0 | 89.0 | 90.0 | 94.0 | 93.4 | 96.5 | 97.6 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |
| 12500 | 74.8 | 78.3 | 82.1 | 83.8 | 84.2 | 85.5 | 89.5 | 88.8 | 92.9 | 95.4 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| 16000 | 73.8 | 76.1 | 80.9 | 80.7 | 80.5 | 81.6 | 87.0 | 86.0 | 89.9 | 94.6 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 |
| 20000 | 76.5 | 79.0 | 85.1 | 81.9 | 81.5 | 83.1 | 91.3 | 85.8 | 90.6 | 96.5 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 |
| OVERALL CALCULATED | 103.5 | 105.9 | 107.5 | 109.0 | 110.6 | 111.7 | 114.0 | 116.5 | 119.6 | 122.8 | 123.8 | 124.9 | 126.0 | 127.1 | 128.2 | 129.3 | 130.4 | 131.5 | 132.6 |
| PWDB | 114.2 | 117.5 | 119.5 | 121.7 | 123.7 | 124.4 | 126.7 | 128.8 | 131.0 | 133.4 | 133.4 | 133.4 | 133.4 | 133.4 | 133.4 | 133.4 | 133.4 | 133.4 | 133.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5108 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | |
|--|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | |
| NFA (1. RPM) | 50 | (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.) |
| NFK (1. RPM) | 63 | 56.3 | 58.4 | 61.2 | 63.7 | 64.5 | 65.7 | 66.5 | 68.2 | 71.0 | 74.4 | 75.8 | 77.8 | 75.3 | | | | |
| NFD (7500. RPM) | 80 | 56.8 | 62.4 | 62.5 | 63.7 | 65.0 | 66.5 | 68.5 | 70.0 | 72.2 | 76.4 | 80.3 | 80.0 | 76.8 | | | | |
| AIRFLOW RATIO | 100 | 58.9 | 62.1 | 64.7 | 65.5 | 67.7 | 69.3 | 70.2 | 72.7 | 76.5 | 81.7 | 84.8 | 82.7 | 78.4 | | | | |
| WF/WM 4.18 | 125 | 59.6 | 62.1 | 64.4 | 65.7 | 67.7 | 70.0 | 71.7 | 73.7 | 76.9 | 82.9 | 84.5 | 83.8 | 78.4 | | | | |
| VEHICLE CELL41 | 160 | 59.6 | 63.3 | 65.2 | 69.2 | 70.5 | 72.5 | 75.0 | 78.4 | 82.3 | 83.1 | 82.4 | 77.1 | | | | | |
| CONFIG NC54 | 200 | 61.4 | 64.4 | 66.0 | 68.1 | 70.1 | 71.9 | 73.4 | 75.8 | 80.0 | 83.7 | 82.4 | 80.6 | 75.5 | | | | |
| LOC C41 ANECH CH | 250 | 62.9 | 65.5 | 67.7 | 69.5 | 71.3 | 72.8 | 74.3 | 76.7 | 80.2 | 83.3 | 81.3 | 79.6 | 74.0 | | | | |
| DATE 06-11-76 | 315 | 62.2 | 65.5 | 69.3 | 70.1 | 71.2 | 72.7 | 74.4 | 77.4 | 81.5 | 82.6 | 81.5 | 80.5 | 74.3 | | | | |
| RUN CONFVELDEPN | 400 | 61.9 | 65.5 | 67.3 | 69.4 | 71.5 | 74.0 | 74.5 | 77.2 | 81.3 | 83.1 | 81.9 | 80.6 | 75.0 | | | | |
| TAPE X51080 | 500 | 61.9 | 65.6 | 68.2 | 69.6 | 71.4 | 73.2 | 75.2 | 78.1 | 81.2 | 83.0 | 81.2 | 80.2 | 73.8 | | | | |
| FAN YIP SPEED | 600 | 61.1 | 64.7 | 67.8 | 70.3 | 71.6 | 73.2 | 75.1 | 77.8 | 80.8 | 82.0 | 81.4 | 78.7 | 71.6 | | | | |
| FT/SEC | 800 | 60.6 | 64.4 | 67.4 | 69.2 | 71.8 | 72.6 | 74.8 | 77.9 | 81.2 | 82.0 | 80.3 | 76.7 | 69.1 | | | | |
| OVERALL CALCULATED | 1000 | 58.9 | 63.3 | 66.7 | 68.5 | 70.7 | 72.2 | 74.2 | 78.0 | 79.0 | 81.0 | 78.0 | 73.9 | 64.9 | | | | |
| PNDB | 12500 | 57.1 | 62.8 | 65.9 | 68.2 | 70.0 | 72.0 | 74.0 | 77.0 | 77.6 | 79.0 | 76.0 | 71.3 | 61.4 | | | | |
| | 16000 | 55.8 | 62.9 | 65.9 | 67.8 | 69.6 | 71.4 | 73.6 | 75.6 | 76.1 | 76.8 | 73.0 | 68.2 | 57.3 | | | | |
| | 20000 | 52.7 | 60.1 | 63.6 | 67.2 | 68.8 | 70.2 | 72.6 | 74.0 | 74.1 | 74.6 | 69.9 | 64.6 | 52.4 | | | | |
| | | 47.2 | 55.5 | 60.1 | 64.6 | 67.8 | 67.5 | 69.8 | 71.4 | 70.8 | 70.5 | 65.0 | 59.2 | 44.8 | | | | |
| | | 39.2 | 47.8 | 54.0 | 58.8 | 62.2 | 63.9 | 65.4 | 65.2 | 63.9 | 57.5 | 50.7 | 33.8 | | | | | |
| | | 30.2 | 39.9 | 46.7 | 52.7 | 56.1 | 57.3 | 60.3 | 58.5 | 58.4 | 55.3 | 48.5 | 39.6 | 16.0 | | | | |
| | | 22.8 | 33.8 | 41.0 | 46.8 | 52.3 | 52.9 | 55.8 | 53.4 | 53.3 | 49.0 | 40.9 | 30.8 | 5.3 | | | | |
| | | 7.3 | 20.1 | 28.7 | 35.5 | 40.4 | 41.5 | 43.2 | 42.2 | 41.3 | 34.9 | 26.7 | 8.9 | | | | | |
| | | 1.7 | 12.8 | 20.5 | 25.8 | 27.1 | 29.5 | 26.5 | 24.3 | 16.0 | 3.2 | | | | | | | |
| | | 5.1 | 5.3 | 8.1 | 4.0 | 0.4 | | | | | | | | | | | | |

OVERALL CALCULATED 72.1 75.9 78.6 80.5 82.4 84.0 85.7 88.3 91.2 93.7 93.5 92.3 87.2
 PNDB 75.9 82.6 85.8 88.8 91.2 92.3 94.4 96.2 97.7 99.2 97.7 95.5 88.9

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5108 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 25 HR. 21.8
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANs)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| 81.9 | 91.2 | 88.7 | 90.0 | 91.6 | 90.9 | 91.8 | 91.7 | 92.9 | 95.0 | 96.9 | 93.6 | 101.7 | 136.3 | | |
| 80.3 | 85.9 | 86.4 | 88.4 | 89.8 | 91.4 | 92.5 | 93.2 | 91.9 | 91.4 | 99.4 | 102.1 | 102.4 | 136.8 | | |
| 80.6 | 83.4 | 86.4 | 87.0 | 87.8 | 87.9 | 88.1 | 89.7 | 91.7 | 90.2 | 101.2 | 102.4 | 104.2 | 137.5 | | |
| 83.8 | 84.3 | 85.8 | 87.3 | 88.2 | 89.3 | 90.7 | 92.3 | 95.5 | 99.0 | 102.8 | 107.5 | 108.5 | 141.2 | | |
| 82.6 | 85.1 | 86.8 | 86.9 | 88.5 | 89.3 | 92.2 | 93.9 | 96.6 | 101.2 | 106.9 | 109.3 | 109.6 | 143.2 | | |
| 83.9 | 88.2 | 86.9 | 89.0 | 91.1 | 91.7 | 92.8 | 95.0 | 98.2 | 104.0 | 108.5 | 111.9 | 111.2 | 145.2 | | |
| 85.7 | 87.2 | 89.0 | 89.0 | 90.3 | 92.0 | 93.3 | 96.3 | 99.5 | 106.0 | 110.5 | 112.2 | 111.0 | 146.1 | | |
| 86.8 | 87.3 | 88.8 | 90.1 | 91.4 | 93.0 | 94.7 | 97.1 | 100.5 | 107.4 | 109.8 | 111.5 | 110.3 | 145.9 | | |
| 87.6 | 89.1 | 89.7 | 91.4 | 92.8 | 94.1 | 96.0 | 97.9 | 102.7 | 107.7 | 109.4 | 110.6 | 109.1 | 145.6 | | |
| 82.9 | 90.4 | 90.9 | 92.7 | 94.0 | 95.2 | 96.8 | 100.0 | 104.2 | 108.7 | 109.4 | 109.4 | 108.2 | 145.8 | | |
| 90.5 | 91.7 | 92.8 | 93.8 | 94.6 | 96.2 | 97.9 | 100.5 | 104.3 | 109.3 | 108.5 | 108.2 | 107.5 | 145.5 | | |
| 90.5 | 92.3 | 94.3 | 94.4 | 95.0 | 97.1 | 98.5 | 101.9 | 105.8 | 109.9 | 109.1 | 110.0 | 108.3 | 146.3 | | |
| 92.9 | 93.5 | 94.5 | 94.5 | 95.8 | 97.9 | 98.6 | 102.0 | 106.7 | 109.3 | 109.5 | 111.4 | 110.2 | 147.5 | | |
| 93.2 | 94.3 | 95.0 | 95.0 | 96.9 | 98.2 | 99.9 | 103.3 | 107.3 | 109.6 | 110.0 | 112.5 | 111.0 | 147.9 | | |
| 93.1 | 95.1 | 96.2 | 96.7 | 98.1 | 98.1 | 100.7 | 103.7 | 107.4 | 110.0 | 110.9 | 113.1 | 111.1 | 148.4 | | |
| 92.5 | 94.3 | 95.1 | 96.4 | 98.0 | 97.1 | 100.7 | 103.9 | 107.9 | 110.2 | 111.9 | 113.8 | 111.1 | 149.0 | | |
| 92.3 | 94.1 | 94.9 | 95.9 | 97.5 | 98.6 | 100.8 | 104.4 | 107.4 | 110.0 | 110.9 | 112.3 | 108.1 | 148.2 | | |
| 94.7 | 96.8 | 96.3 | 96.6 | 97.4 | 99.0 | 101.1 | 104.8 | 107.0 | 109.2 | 110.6 | 111.0 | 107.3 | 147.7 | | |
| 95.5 | 98.6 | 98.1 | 97.9 | 98.5 | 100.3 | 102.5 | 104.6 | 107.4 | 109.0 | 109.7 | 109.8 | 106.6 | 147.6 | | |
| 93.8 | 96.1 | 97.4 | 98.9 | 99.8 | 100.1 | 102.5 | 104.2 | 106.9 | 108.8 | 108.5 | 108.6 | 105.4 | 147.5 | | |
| 90.4 | 94.0 | 95.1 | 98.1 | 100.2 | 99.5 | 101.4 | 103.6 | 106.1 | 107.5 | 108.7 | 108.3 | 104.3 | 146.6 | | |
| 87.6 | 91.8 | 92.9 | 94.9 | 97.7 | 99.1 | 101.0 | 101.8 | 103.7 | 104.9 | 104.8 | 106.1 | 102.6 | 145.1 | | |
| 85.4 | 90.1 | 91.6 | 94.2 | 96.0 | 96.6 | 99.5 | 100.0 | 102.6 | 103.1 | 102.2 | 103.9 | 101.9 | 144.1 | | |
| 86.6 | 89.0 | 91.1 | 94.3 | 93.9 | 97.6 | 96.4 | 99.2 | 99.2 | 99.2 | 98.9 | 100.1 | 98.0 | 141.9 | | |
| 83.8 | 85.0 | 87.5 | 90.0 | 90.2 | 92.3 | 93.6 | 96.7 | 95.6 | 96.9 | 95.5 | 94.6 | 94.6 | 140.0 | | |
| 75.3 | 83.6 | 82.7 | 85.5 | 87.5 | 87.4 | 90.9 | 90.0 | 93.0 | 92.8 | 93.3 | 95.0 | 92.2 | 139.4 | | |
| 75.4 | 78.8 | 81.1 | 81.9 | 82.2 | 85.9 | 84.8 | 88.8 | 89.9 | 90.9 | 90.4 | 88.2 | 88.2 | 139.6 | | |
| 64.9 | 69.0 | 73.0 | 73.9 | 75.0 | 78.8 | 78.2 | 82.3 | 84.2 | 86.4 | 83.2 | 80.5 | 80.5 | 136.7 | | |
| 63.4 | 67.7 | 66.9 | 68.1 | 72.9 | 71.7 | 75.7 | 79.3 | 82.1 | 75.1 | 72.9 | 72.9 | 72.9 | 137.5 | | |
| 59.9 | 65.8 | 65.0 | 62.1 | 63.0 | 71.9 | 65.6 | 70.6 | 70.1 | 77.4 | 70.3 | 67.8 | 67.8 | 142.8 | | |
| 103.9 | 106.4 | 107.0 | 108.2 | 109.6 | 110.6 | 112.6 | 115.0 | 118.3 | 121.1 | 122.3 | 123.8 | 122.1 | 159.9 | | |
| 116.9 | 119.4 | 119.6 | 120.3 | 121.7 | 122.9 | 124.6 | 127.7 | 131.0 | 133.6 | 135.2 | 136.8 | 134.6 | | | |

OVERALL MEASURED

OVERALL CALCULATED 103.9 106.4 107.0 108.2 109.6 110.6 112.6 115.0 118.3 121.1 122.3 123.8 122.1
 PNDB 116.9 119.4 119.6 120.3 121.7 122.9 124.6 127.7 131.0 133.6 135.2 136.8 134.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5110 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-190cm²(29.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|----------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|
| NO EGA | (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.) |
| ROG. NO. | 50 | 84.7 | 85.2 | 86.5 | 88.3 | 89.1 | 90.2 | 91.6 | 93.3 | 96.5 | 100.6 | 103.8 | 108.5 | 109.5 |
| RADIAL | 63 | 83.5 | 86.0 | 87.3 | 87.8 | 89.4 | 90.8 | 93.2 | 94.8 | 97.5 | 102.1 | 107.8 | 110.2 | 110.5 |
| VEHICLE | 80 | 84.9 | 89.1 | 87.9 | 89.9 | 92.0 | 92.6 | 93.8 | 95.9 | 99.1 | 105.0 | 109.4 | 112.8 | 112.1 |
| CONFIG | 100 | 86.6 | 88.2 | 89.9 | 90.0 | 91.3 | 92.9 | 94.3 | 97.2 | 100.4 | 107.0 | 111.4 | 113.1 | 111.9 |
| LOC | 125 | 87.7 | 88.2 | 89.7 | 91.0 | 92.4 | 94.0 | 95.6 | 98.0 | 101.5 | 108.3 | 110.8 | 112.5 | 111.2 |
| DATE | 200 | 89.6 | 91.4 | 90.6 | 92.4 | 93.7 | 95.1 | 97.0 | 98.9 | 103.6 | 108.7 | 110.4 | 111.6 | 110.1 |
| RUN | 250 | 91.4 | 92.7 | 93.7 | 94.7 | 95.6 | 97.2 | 98.8 | 101.5 | 109.7 | 110.4 | 110.3 | 109.1 | 158.3 |
| TAPE | 315 | 91.5 | 93.3 | 95.3 | 95.3 | 95.9 | 98.0 | 99.4 | 102.8 | 106.8 | 109.9 | 110.4 | 108.4 | 158.2 |
| BAR | 400 | 91.9 | 93.9 | 94.4 | 95.4 | 96.8 | 98.9 | 99.5 | 102.9 | 107.7 | 110.2 | 110.4 | 109.3 | 158.0 |
| TAHB | 500 | 92.9 | 94.2 | 95.2 | 96.0 | 97.8 | 99.2 | 100.8 | 104.2 | 108.2 | 110.5 | 111.0 | 111.1 | 159.5 |
| DEG F | 630 | 93.0 | 94.1 | 96.1 | 97.1 | 97.7 | 99.1 | 101.5 | 104.6 | 108.3 | 110.9 | 111.9 | 111.9 | 160.3 |
| DEG K | 800 | 93.5 | 95.2 | 95.9 | 97.4 | 99.0 | 100.1 | 101.7 | 104.9 | 108.8 | 111.2 | 112.9 | 114.8 | 160.8 |
| GM/M3 | 1000 | 95.7 | 97.8 | 97.3 | 97.6 | 98.4 | 99.7 | 101.8 | 105.5 | 108.4 | 111.0 | 112.0 | 113.4 | 161.4 |
| KG/M3 | 1250 | 96.6 | 99.9 | 99.2 | 99.0 | 99.6 | 101.4 | 103.6 | 105.7 | 108.5 | 110.2 | 111.6 | 112.0 | 160.6 |
| SHIFT | 1600 | 97.4 | 98.7 | 100.2 | 101.0 | 101.6 | 101.0 | 103.8 | 105.4 | 108.2 | 110.1 | 110.8 | 110.9 | 160.1 |
| RATIO | 2000 | 91.8 | 95.5 | 96.6 | 99.5 | 101.6 | 101.0 | 102.9 | 105.0 | 107.6 | 109.0 | 108.1 | 109.7 | 159.7 |
| DF/DM | 3150 | 89.2 | 93.5 | 94.6 | 96.6 | 98.2 | 98.8 | 101.7 | 102.6 | 103.5 | 105.4 | 106.6 | 106.5 | 159.1 |
| DF/DM | 4000 | 87.5 | 92.3 | 93.7 | 96.4 | 98.2 | 98.8 | 101.7 | 102.2 | 104.7 | 105.2 | 104.3 | 106.1 | 157.5 |
| DF/DM | 5000 | 85.0 | 89.6 | 91.9 | 94.1 | 97.3 | 96.9 | 100.6 | 99.4 | 102.2 | 102.2 | 101.8 | 103.0 | 156.5 |
| DF/DM | 6300 | 82.7 | 87.7 | 88.8 | 91.2 | 93.9 | 94.1 | 96.1 | 97.5 | 100.6 | 99.5 | 100.8 | 98.4 | 154.3 |
| DF/DM | 8000 | 80.4 | 85.7 | 87.9 | 90.6 | 92.6 | 92.6 | 96.0 | 95.1 | 98.2 | 98.0 | 98.5 | 100.1 | 152.4 |
| DF/DM | 10000 | 77.8 | 82.6 | 85.9 | 88.2 | 89.0 | 89.3 | 93.0 | 91.9 | 95.9 | 97.0 | 98.1 | 97.5 | 151.9 |
| DF/DM | 12500 | 74.5 | 78.7 | 82.6 | 83.9 | 83.5 | 84.6 | 88.4 | 87.8 | 91.9 | 93.8 | 96.0 | 92.8 | 149.2 |
| DF/DM | 16000 | 73.1 | 76.3 | 80.7 | 80.6 | 79.9 | 81.1 | 85.9 | 84.6 | 88.7 | 92.2 | 95.1 | 88.1 | 149.9 |
| DF/DM | 20000 | 75.4 | 78.3 | 84.2 | 81.3 | 80.5 | 81.4 | 90.3 | 84.0 | 89.2 | 94.4 | 95.3 | 88.6 | 155.2 |
| DF/DM | OVERALL CALCULATED | 105.0 | 107.4 | 108.1 | 109.4 | 110.8 | 111.8 | 113.9 | 116.2 | 119.5 | 122.2 | 123.3 | 124.3 | 123.0 |
| DF/DM | PND8 | 116.4 | 119.3 | 120.2 | 122.2 | 124.0 | 124.6 | 126.7 | 128.4 | 131.3 | 133.2 | 133.4 | 134.7 | 132.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5110** ACOUSTIC RANGE **45.7m(150ft.) ARC**

SIZE **FULL-.33m²(513in²)**

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | |
|--------------------|--|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. |
| 50 | 56.5 | 58.6 | 61.0 | 63.5 | 64.7 | 66.0 | 67.2 |
| 63 | 55.3 | 59.4 | 62.2 | 63.0 | 65.0 | 66.5 | 68.7 |
| 80 | 56.5 | 62.4 | 62.3 | 65.0 | 67.5 | 68.3 | 71.0 |
| 100 | 58.2 | 61.3 | 64.2 | 65.0 | 69.8 | 68.5 | 72.2 |
| 125 | 59.1 | 61.3 | 63.9 | 66.0 | 67.7 | 69.5 | 71.0 |
| 160 | 59.8 | 63.0 | 64.7 | 67.2 | 69.0 | 70.5 | 72.2 |
| 200 | 60.9 | 64.1 | 65.8 | 68.3 | 70.1 | 71.4 | 72.9 |
| 250 | 62.2 | 65.2 | 67.4 | 69.2 | 70.5 | 72.3 | 73.8 |
| 315 | 62.0 | 65.5 | 68.8 | 69.6 | 70.7 | 72.9 | 74.2 |
| 400 | 61.9 | 65.8 | 67.6 | 69.4 | 71.2 | 73.5 | 74.0 |
| 500 | 62.4 | 65.6 | 68.0 | 69.6 | 72.0 | 73.5 | 75.0 |
| 630 | 61.8 | 64.9 | 68.4 | 70.3 | 71.4 | 72.9 | 75.1 |
| 800 | 61.4 | 65.4 | 67.7 | 69.9 | 72.1 | 73.4 | 74.8 |
| 1000 | 60.2 | 64.4 | 66.8 | 68.3 | 71.0 | 72.3 | 74.2 |
| 1250 | 61.2 | 65.9 | 67.1 | 68.5 | 70.0 | 71.8 | 73.7 |
| 1600 | 60.1 | 66.4 | 67.6 | 68.6 | 69.9 | 72.0 | 73.9 |
| 2000 | 56.2 | 61.9 | 65.4 | 68.3 | 69.8 | 70.5 | 72.6 |
| 2500 | 49.7 | 57.2 | 60.8 | 65.4 | 68.3 | 67.9 | 70.9 |
| 3150 | 41.7 | 50.8 | 54.9 | 58.8 | 62.7 | 64.3 | 65.9 |
| 4000 | 31.9 | 42.8 | 48.1 | 53.2 | 56.3 | 57.3 | 59.8 |
| FAN TIP SPEED | 24.7 | 30.2 | 42.9 | 47.7 | 52.4 | 52.5 | 53.0 |
| FT/SEC | 8.6 | 22.9 | 29.8 | 35.6 | 40.2 | 41.1 | 42.5 |
| 6300 | 3.4 | 13.4 | 20.9 | 25.5 | 26.3 | 23.9 | 25.4 |
| 8000 | | | | | | 4.6 | 7.1 |
| 10000 | | | | | | | |
| 12500 | | | | | | | |
| 16000 | | | | | | | |
| 20000 | | | | | | | |
| OVERALL CALCULATED | 72.6 | 76.5 | 78.8 | 80.6 | 82.4 | 83.9 | 85.5 |
| P.-B | 79.1 | 84.6 | 86.8 | 89.3 | 91.4 | 92.4 | 94.2 |
| | | | | | | 95.8 | 97.7 |
| | | | | | | 98.6 | 92.8 |
| | | | | | | 92.4 | 91.5 |
| | | | | | | 97.1 | 95.3 |
| | | | | | | 86.2 | 88.0 |

VEHICLE CELL41
 CONFIG MC54
 LOC C41 ANECH CH
 DATE 06-11-76
 RLM CONFVELVEPN
 TAPE X51100
 FAN TIP SPEED FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5110 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 8 DAY 25 HR. 21.8

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. PWL
 FREQ. (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)

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PWL |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| 100 | 83.6 | 92.7 | 90.2 | 91.5 | 92.8 | 92.7 | 93.1 | 93.5 | 94.7 | 96.0 | 99.9 | 100.1 | 103.2 | 137.7 | | | | | |
| 125 | 81.8 | 86.9 | 87.6 | 89.9 | 91.3 | 92.9 | 94.3 | 94.4 | 93.9 | 92.7 | 101.1 | 103.3 | 104.4 | 136.4 | | | | | |
| 160 | 80.9 | 84.4 | 88.4 | 88.7 | 89.1 | 89.2 | 89.3 | 91.5 | 92.7 | 97.5 | 103.4 | 104.9 | 106.4 | 139.6 | | | | | |
| 200 | 84.5 | 85.0 | 86.5 | 88.6 | 88.9 | 90.0 | 91.4 | 93.6 | 96.5 | 100.6 | 104.6 | 109.0 | 110.3 | 142.8 | | | | | |
| 250 | 83.3 | 86.3 | 88.3 | 88.6 | 90.0 | 91.1 | 94.0 | 95.9 | 97.8 | 101.7 | 108.9 | 111.5 | 112.3 | 145.3 | | | | | |
| 315 | 85.2 | 89.4 | 87.7 | 90.2 | 92.6 | 93.4 | 94.3 | 96.7 | 99.7 | 104.5 | 110.7 | 113.9 | 113.7 | 147.2 | | | | | |
| 400 | 87.4 | 88.7 | 90.5 | 92.6 | 92.6 | 93.5 | 94.6 | 97.5 | 101.2 | 107.3 | 112.5 | 115.2 | 113.7 | 148.5 | | | | | |
| 500 | 87.5 | 88.5 | 89.8 | 91.3 | 92.4 | 94.3 | 95.4 | 98.1 | 101.8 | 108.1 | 112.1 | 115.3 | 113.8 | 148.6 | | | | | |
| 630 | 88.9 | 90.1 | 90.9 | 92.9 | 93.8 | 94.9 | 97.0 | 99.7 | 103.4 | 109.0 | 111.7 | 115.4 | 114.4 | 148.9 | | | | | |
| 800 | 90.4 | 91.7 | 92.4 | 93.7 | 95.0 | 96.7 | 98.3 | 101.0 | 105.2 | 110.0 | 111.7 | 114.6 | 114.2 | 148.9 | | | | | |
| 1000 | 92.7 | 93.5 | 94.3 | 95.0 | 96.1 | 97.7 | 98.9 | 102.0 | 105.3 | 109.8 | 110.5 | 113.7 | 114.2 | 148.5 | | | | | |
| 1250 | 92.8 | 94.1 | 95.8 | 95.9 | 96.7 | 98.6 | 99.7 | 102.6 | 106.3 | 110.4 | 111.4 | 115.0 | 114.8 | 149.4 | | | | | |
| 1600 | 93.2 | 93.9 | 94.5 | 96.0 | 97.1 | 99.2 | 100.1 | 103.0 | 107.5 | 109.6 | 112.0 | 115.7 | 115.7 | 149.9 | | | | | |
| 2000 | 94.2 | 94.7 | 95.0 | 96.5 | 98.1 | 99.2 | 101.1 | 103.8 | 107.8 | 110.3 | 112.8 | 116.2 | 114.2 | 150.2 | | | | | |
| 2500 | 93.8 | 94.6 | 96.6 | 97.4 | 98.2 | 99.4 | 101.7 | 104.7 | 108.4 | 110.0 | 113.4 | 115.8 | 112.6 | 150.1 | | | | | |
| 3150 | 94.8 | 95.8 | 96.4 | 97.4 | 98.5 | 99.3 | 101.7 | 105.1 | 108.6 | 110.7 | 114.7 | 114.6 | 110.3 | 150.1 | | | | | |
| 4000 | 94.1 | 95.1 | 96.4 | 97.2 | 98.5 | 99.9 | 102.0 | 105.7 | 108.2 | 111.0 | 113.9 | 112.3 | 107.6 | 149.4 | | | | | |
| 5000 | 93.2 | 94.8 | 96.0 | 97.6 | 98.1 | 100.0 | 101.6 | 105.8 | 108.3 | 110.4 | 113.3 | 111.0 | 107.0 | 149.0 | | | | | |
| 6300 | 92.5 | 94.6 | 95.9 | 97.1 | 99.2 | 100.6 | 103.5 | 105.1 | 107.9 | 110.0 | 111.4 | 109.8 | 106.1 | 148.3 | | | | | |
| 8000 | 91.8 | 93.4 | 94.4 | 96.7 | 99.0 | 100.4 | 103.0 | 105.2 | 107.4 | 109.8 | 110.8 | 108.9 | 105.4 | 148.1 | | | | | |
| 10000 | 89.9 | 94.0 | 94.1 | 95.9 | 98.4 | 99.3 | 101.7 | 104.4 | 106.6 | 108.0 | 108.7 | 108.1 | 104.8 | 147.1 | | | | | |
| 12500 | 87.8 | 92.6 | 93.7 | 94.7 | 97.0 | 97.6 | 100.7 | 102.6 | 103.9 | 105.6 | 106.5 | 106.3 | 102.6 | 145.5 | | | | | |
| 16000 | 86.6 | 90.9 | 92.6 | 95.0 | 96.0 | 96.4 | 100.0 | 100.5 | 103.3 | 104.1 | 104.9 | 104.4 | 101.9 | 145.0 | | | | | |
| 20000 | 83.5 | 87.6 | 89.5 | 92.1 | 94.3 | 94.2 | 97.3 | 96.7 | 99.7 | 100.0 | 101.4 | 100.3 | 98.2 | 142.5 | | | | | |
| 25000 | 79.8 | 84.1 | 85.7 | 88.0 | 90.5 | 90.5 | 91.8 | 93.6 | 96.7 | 96.4 | 99.2 | 95.5 | 94.9 | 140.6 | | | | | |
| 31500 | 76.5 | 81.6 | 83.7 | 86.2 | 88.2 | 87.9 | 90.9 | 90.5 | 93.5 | 93.6 | 95.5 | 95.2 | 91.7 | 140.1 | | | | | |
| 40000 | 72.1 | 76.7 | 79.0 | 81.8 | 82.6 | 82.7 | 86.4 | 85.0 | 89.0 | 90.4 | 93.7 | 92.1 | 88.9 | 139.8 | | | | | |
| 50000 | 65.9 | 69.8 | 73.5 | 74.8 | 74.7 | 75.7 | 79.0 | 78.0 | 82.8 | 85.0 | 90.4 | 85.7 | 81.8 | 138.7 | | | | | |
| 63000 | 60.4 | 63.9 | 68.2 | 68.4 | 67.9 | 68.9 | 72.9 | 71.4 | 76.2 | 80.1 | 85.4 | 80.1 | 75.6 | 139.6 | | | | | |
| 80000 | 57.3 | 60.2 | 66.1 | 63.5 | 62.1 | 63.8 | 71.7 | 65.9 | 70.6 | 76.6 | 82.9 | 75.0 | 73.5 | 145.7 | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 104.6 | 106.3 | 107.4 | 108.6 | 110.1 | 111.3 | 113.4 | 116.0 | 119.0 | 121.9 | 124.6 | 126.5 | 125.3 | 161.8 | | | | | |
| PND8 | 117.7 | 119.2 | 120.0 | 121.1 | 122.4 | 123.7 | 125.7 | 128.8 | 131.8 | 134.6 | 137.7 | 138.7 | 136.4 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/12 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-190cm²(29.4in²)

| NO EGA | PROC. DATE - MONTH 8 DAY 27 HR. 5.5 | | | | | | | | | | | | |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | |
| RSG. NO. | ANGLES FROM INLET IN DEGREES (AND RADIANST) | | | | | | | | | | | | |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 85.5 | 86.0 | 87.5 | 89.5 | 89.9 | 91.0 | 92.4 | 94.5 | 97.5 | 101.6 | 105.5 | 110.0 | 111.2 |
| 63 | 84.3 | 87.3 | 89.3 | 89.6 | 89.9 | 92.0 | 94.9 | 96.8 | 98.8 | 102.6 | 109.8 | 112.5 | 113.3 |
| 20 | 86.1 | 90.4 | 88.6 | 91.2 | 93.5 | 94.4 | 95.3 | 97.7 | 100.6 | 105.5 | 111.7 | 114.8 | 114.0 |
| 100 | 88.4 | 89.7 | 91.4 | 91.5 | 93.5 | 94.4 | 95.5 | 98.5 | 102.2 | 108.2 | 113.4 | 116.1 | 114.7 |
| 125 | 88.5 | 89.5 | 90.7 | 92.3 | 93.4 | 95.2 | 96.4 | 99.0 | 102.7 | 109.1 | 113.0 | 116.2 | 114.7 |
| 160 | 89.3 | 91.1 | 91.8 | 93.9 | 94.7 | 95.8 | 98.0 | 100.6 | 104.3 | 109.9 | 112.6 | 115.3 | 115.3 |
| 200 | 91.3 | 92.6 | 93.4 | 94.7 | 96.0 | 97.6 | 99.2 | 101.9 | 106.1 | 110.9 | 112.6 | 115.6 | 115.1 |
| 250 | 93.7 | 94.4 | 95.2 | 96.0 | 97.1 | 98.7 | 99.8 | 103.0 | 106.2 | 110.8 | 111.5 | 114.7 | 115.2 |
| 315 | 93.7 | 95.0 | 96.2 | 96.8 | 97.7 | 99.5 | 100.7 | 103.6 | 107.3 | 111.4 | 112.3 | 115.0 | 115.6 |
| 400 | 94.1 | 94.9 | 95.4 | 96.9 | 98.0 | 100.1 | 101.0 | 103.9 | 108.4 | 110.7 | 112.9 | 116.6 | 116.0 |
| RUN CONFVELDEPN | 95.2 | 95.7 | 97.0 | 97.5 | 99.1 | 100.2 | 102.1 | 104.7 | 108.7 | 111.3 | 113.7 | 117.2 | 115.2 |
| TAPE | 94.8 | 95.6 | 97.6 | 98.4 | 99.2 | 100.3 | 102.7 | 105.6 | 109.3 | 110.9 | 114.4 | 116.8 | 113.6 |
| BAR 29.3 HG | 95.8 | 96.8 | 97.3 | 98.4 | 99.5 | 100.3 | 102.7 | 106.1 | 109.6 | 111.7 | 115.6 | 115.5 | 111.3 |
| (98773. N/M2) | 95.1 | 96.2 | 97.4 | 98.2 | 99.5 | 100.9 | 103.0 | 106.7 | 109.2 | 112.0 | 115.0 | 113.4 | 108.7 |
| TAMB 90. DEG F | 94.2 | 95.8 | 97.1 | 98.6 | 99.2 | 101.0 | 102.7 | 106.8 | 109.3 | 111.4 | 114.4 | 112.0 | 108.0 |
| (305. DEG K) | 95.7 | 97.0 | 98.2 | 100.3 | 101.7 | 104.6 | 106.2 | 109.0 | 111.1 | 112.5 | 110.9 | 107.2 | |
| TWET 76. DEG F | 94.6 | 95.7 | 97.9 | 97.9 | 100.3 | 101.6 | 104.3 | 106.4 | 108.7 | 111.1 | 112.0 | 110.1 | 106.6 |
| (297. DEG K) | 95.5 | 95.6 | 97.3 | 98.6 | 99.2 | 102.4 | 104.2 | 107.3 | 107.3 | 103.2 | 103.2 | 103.2 | 104.2 |
| HACT17.67 GM/M3 | 94.2 | 95.4 | 96.3 | 98.6 | 99.2 | 102.2 | 102.7 | 105.4 | 106.2 | 107.0 | 106.6 | 104.0 | |
| (.01767 KG/M3) | 88.7 | 93.0 | 94.7 | 97.1 | 98.2 | 98.5 | 102.2 | 102.7 | 105.4 | 106.2 | 107.0 | 106.6 | 104.0 |
| FREQ. SHIFT | 86.5 | 90.6 | 92.4 | 95.1 | 97.3 | 97.2 | 100.5 | 99.6 | 102.7 | 103.0 | 104.3 | 103.3 | 101.2 |
| JET 6 | 83.7 | 88.0 | 89.6 | 91.9 | 94.4 | 94.4 | 95.6 | 97.5 | 100.6 | 100.2 | 103.1 | 99.4 | 98.7 |
| DIAMETER RATIO | 81.7 | 86.7 | 88.9 | 91.4 | 93.4 | 93.1 | 96.0 | 95.6 | 98.7 | 98.7 | 100.7 | 100.4 | 96.9 |
| DF/DM 4.15 | 79.3 | 83.8 | 86.2 | 89.0 | 89.8 | 89.8 | 93.5 | 92.2 | 96.2 | 97.5 | 100.8 | 99.3 | 96.1 |
| 10000 | 75.6 | 77.4 | 83.1 | 84.4 | 84.4 | 84.4 | 85.4 | 88.6 | 87.6 | 92.4 | 94.6 | 100.0 | 95.3 |
| 12500 | 73.4 | 76.8 | 81.2 | 81.4 | 80.9 | 81.8 | 85.9 | 84.4 | 89.2 | 93.0 | 98.3 | 93.1 | 88.9 |
| 16000 | 75.7 | 73.5 | 84.4 | 81.8 | 80.5 | 82.1 | 90.0 | 84.2 | 88.9 | 94.9 | 101.3 | 93.4 | 91.6 |
| 20000 | 105.6 | 107.3 | 108.4 | 109.7 | 111.2 | 112.4 | 114.6 | 117.1 | 120.2 | 123.0 | 123.7 | 127.4 | 126.1 |
| OVERALL CALCULATED | 116.2 | 119.2 | 120.3 | 122.0 | 123.6 | 124.5 | 127.0 | 129.2 | 131.9 | 133.9 | 135.6 | 135.9 | 133.7 |
| PADN | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/12 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | |
|--|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) | (2.97) | (3.14) | (3.32) | (3.49) | (3.67) | (3.84) | (4.02) | (4.19) | (4.37) | (4.54) | (4.72) | (4.89) | |
| 63 | 57.3 | 59.4 | 62.0 | 64.7 | 65.5 | 66.7 | 68.0 | 69.7 | 72.0 | 74.9 | 77.3 | 79.5 | 81.6 | 82.1 | 84.5 | 85.3 | 80.1 | 80.4 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 |
| 80 | 57.3 | 63.6 | 63.7 | 64.7 | 66.5 | 67.7 | 70.5 | 72.0 | 73.2 | 75.9 | 81.6 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 |
| 100 | 59.9 | 62.8 | 65.7 | 66.5 | 69.0 | 70.0 | 71.0 | 73.5 | 76.5 | 81.4 | 85.0 | 85.4 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 |
| 125 | 59.9 | 62.6 | 64.9 | 67.2 | 68.7 | 70.8 | 71.7 | 74.0 | 76.9 | 82.1 | 84.5 | 85.3 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 |
| 160 | 61.1 | 64.0 | 65.9 | 68.7 | 70.0 | 71.2 | 73.2 | 75.5 | 78.4 | 82.8 | 83.9 | 85.1 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| 200 | 62.4 | 65.4 | 67.3 | 69.3 | 71.1 | 72.9 | 74.4 | 76.6 | 80.0 | 83.7 | 83.7 | 84.1 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 |
| 250 | 64.5 | 67.0 | 68.9 | 70.5 | 72.0 | 73.8 | 74.8 | 77.5 | 79.9 | 83.3 | 82.3 | 82.9 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 |
| 315 | 64.2 | 67.3 | 70.3 | 71.1 | 72.4 | 74.4 | 75.4 | 77.9 | 80.8 | 83.6 | 82.8 | 83.8 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 |
| 400 | 64.1 | 66.8 | 68.6 | 70.9 | 72.5 | 74.8 | 75.5 | 77.9 | 81.6 | 82.6 | 82.9 | 83.8 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 |
| 500 | 64.6 | 67.1 | 69.7 | 71.1 | 73.2 | 74.5 | 76.2 | 78.4 | 81.5 | 82.7 | 83.2 | 83.7 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 |
| 630 | 63.6 | 66.4 | 69.9 | 71.5 | 72.9 | 74.2 | 76.4 | 78.9 | 81.6 | 81.6 | 81.8 | 83.2 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 |
| 800 | 63.7 | 66.9 | 69.0 | 70.9 | 72.6 | 73.6 | 75.8 | 78.7 | 81.2 | 81.8 | 83.5 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| 1000 | 61.9 | 65.4 | 68.3 | 70.1 | 72.0 | 73.5 | 75.5 | 78.6 | 80.0 | 81.3 | 81.8 | 83.5 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| 1250 | 59.7 | 63.9 | 66.9 | 69.5 | 70.7 | 72.8 | 74.2 | 77.8 | 79.1 | 79.5 | 79.8 | 81.8 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 |
| 1600 | 57.1 | 62.2 | 65.4 | 67.9 | 70.6 | 72.2 | 74.9 | 75.9 | 77.4 | 77.6 | 76.0 | 69.7 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| 2000 | 54.2 | 59.2 | 62.4 | 66.0 | 69.1 | 70.7 | 73.1 | 74.5 | 75.4 | 75.6 | 73.2 | 65.9 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| RUN CONF/SVELDEPN | 2500 | 49.2 | 57.2 | 59.8 | 63.1 | 66.6 | 67.7 | 69.8 | 71.6 | 72.3 | 71.2 | 68.0 | 60.9 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| TAPE X51120 | 3150 | 42.0 | 51.5 | 55.7 | 58.6 | 61.9 | 62.8 | 65.7 | 66.5 | 65.9 | 64.6 | 60.7 | 52.5 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 |
| FAN TIP SPEED | 4000 | 33.1 | 43.6 | 49.1 | 53.9 | 56.3 | 57.0 | 60.3 | 59.5 | 59.8 | 56.7 | 51.4 | 40.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| FT/SEC | 5000 | 26.2 | 37.2 | 43.4 | 48.7 | 52.4 | 52.7 | 55.4 | 53.3 | 53.7 | 49.6 | 44.0 | 31.2 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | 6300 | 9.6 | 23.2 | 30.5 | 36.3 | 40.7 | 41.3 | 42.0 | 41.9 | 41.5 | 35.4 | 29.0 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| | 8000 | 4.4 | 14.4 | 21.6 | 26.3 | 28.9 | 26.8 | 28.9 | 25.9 | 24.2 | 16.4 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | 10000 | | | | 3.9 | 5.1 | 7.6 | 2.7 | 0.1 | | | | | | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 74.0 | 77.2 | 79.7 | 81.6 | 83.4 | 85.0 | 86.6 | 89.0 | 91.5 | 93.7 | 94.8 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| P-1DB | 79.2 | 83.3 | 86.3 | 88.9 | 91.4 | 92.9 | 95.0 | 96.8 | 98.4 | 99.4 | 99.6 | 98.3 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/12 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE 731.5m(2400ft.) SIZE 33m²(513in²)

FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO. EGA | FREQ. (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) | | | PROC. DATE - MONTH 3 DAY 25 HR. 21.8 | | | ANGLE FROM INLET IN DEGREES (AND RADIAN) | HUM. DAY - JENOTS | | | | | | |
|--------------------|---------|---|-------|-------|--------------------------------------|-------|-------|--|-------------------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 70. | 80. | 90. | 100. | | | 110. | 120. | 130. | 140. | 150. | 160. |
| 100 | 63 | 85.1 | 93.9 | 91.4 | 92.7 | 93.6 | 93.2 | 94.1 | 94.5 | 95.2 | 97.0 | 100.7 | 101.4 | 104.4 | 138.7 |
| 125 | 50 | 82.8 | 88.4 | 83.6 | 90.9 | 92.8 | 94.4 | 95.0 | 95.7 | 94.6 | 94.2 | 102.1 | 104.8 | 105.6 | 139.7 |
| 160 | 63 | 82.9 | 85.7 | 89.7 | 89.5 | 89.8 | 90.2 | 90.3 | 92.2 | 93.4 | 98.5 | 103.9 | 105.4 | 107.9 | 140.5 |
| 200 | 63 | 85.3 | 86.5 | 87.8 | 89.3 | 90.2 | 91.3 | 92.7 | 95.3 | 97.3 | 101.6 | 105.3 | 110.0 | 112.0 | 144.0 |
| 250 | 63 | 86.4 | 87.6 | 89.6 | 89.6 | 91.0 | 91.8 | 94.2 | 96.6 | 98.6 | 102.9 | 109.9 | 113.0 | 113.8 | 146.6 |
| 315 | 63 | 86.4 | 89.7 | 92.0 | 92.3 | 93.1 | 94.0 | 95.3 | 98.5 | 101.5 | 108.0 | 114.2 | 116.7 | 116.0 | 148.6 |
| 400 | 63 | 89.3 | 90.0 | 91.5 | 92.3 | 92.9 | 94.8 | 96.4 | 99.3 | 103.0 | 109.9 | 115.1 | 118.0 | 116.3 | 150.1 |
| 500 | 63 | 90.4 | 91.9 | 92.7 | 93.9 | 94.8 | 96.1 | 98.5 | 100.7 | 104.7 | 110.5 | 115.2 | 118.4 | 116.9 | 151.1 |
| 630 | 63 | 92.1 | 92.9 | 94.2 | 94.7 | 96.0 | 97.4 | 99.0 | 102.0 | 105.9 | 111.0 | 115.9 | 118.6 | 117.7 | 151.6 |
| 800 | 63 | 95.5 | 96.0 | 96.5 | 97.0 | 96.9 | 98.2 | 99.9 | 102.8 | 106.5 | 111.1 | 114.8 | 118.0 | 117.7 | 152.2 |
| 1000 | 63 | 95.5 | 97.1 | 98.1 | 98.1 | 98.5 | 100.1 | 101.2 | 104.1 | 107.6 | 110.9 | 114.9 | 119.3 | 117.6 | 152.4 |
| 1250 | 63 | 103.2 | 101.2 | 99.0 | 93.7 | 98.3 | 100.2 | 100.8 | 103.5 | 108.0 | 110.8 | 114.5 | 119.4 | 117.4 | 152.4 |
| 1600 | 63 | 105.9 | 104.2 | 103.5 | 102.0 | 100.1 | 100.0 | 102.1 | 105.0 | 108.5 | 110.8 | 115.3 | 119.0 | 115.5 | 152.6 |
| 2000 | 63 | 104.1 | 105.4 | 105.6 | 105.7 | 103.7 | 102.4 | 103.0 | 105.7 | 108.6 | 110.5 | 115.9 | 117.1 | 112.6 | 152.6 |
| 2500 | 63 | 101.3 | 103.1 | 103.6 | 104.9 | 106.2 | 105.1 | 103.2 | 105.6 | 109.1 | 111.0 | 116.7 | 115.3 | 111.1 | 152.6 |
| 3150 | 63 | 99.6 | 100.1 | 101.2 | 102.4 | 103.5 | 104.6 | 105.3 | 106.7 | 108.7 | 111.0 | 114.7 | 113.3 | 108.6 | 151.8 |
| 4000 | 63 | 98.4 | 99.5 | 100.8 | 101.3 | 101.6 | 103.5 | 103.6 | 107.6 | 108.5 | 110.4 | 113.1 | 112.2 | 107.5 | 150.6 |
| 5000 | 63 | 97.3 | 98.3 | 99.6 | 100.9 | 102.5 | 103.8 | 105.5 | 103.1 | 108.9 | 110.0 | 111.9 | 111.6 | 107.1 | 149.9 |
| 6300 | 63 | 95.8 | 97.1 | 97.9 | 100.2 | 101.5 | 103.1 | 105.3 | 107.2 | 109.2 | 110.1 | 110.8 | 110.1 | 105.0 | 149.7 |
| 8000 | 63 | 93.7 | 96.0 | 97.4 | 99.1 | 100.7 | 101.5 | 103.7 | 105.9 | 107.9 | 108.0 | 109.2 | 109.1 | 104.5 | 149.2 |
| 10000 | 63 | 90.6 | 94.3 | 95.4 | 97.7 | 99.0 | 99.8 | 102.5 | 103.3 | 105.2 | 106.4 | 107.3 | 107.6 | 103.1 | 148.2 |
| 12500 | 63 | 89.1 | 91.9 | 93.6 | 96.0 | 98.0 | 99.1 | 101.0 | 101.3 | 104.1 | 104.1 | 105.2 | 105.4 | 102.1 | 148.2 |
| 16000 | 63 | 86.5 | 88.8 | 91.0 | 93.1 | 96.1 | 95.7 | 98.3 | 97.7 | 100.7 | 100.0 | 101.9 | 102.8 | 98.7 | 146.7 |
| 20000 | 63 | 83.6 | 86.1 | 87.5 | 89.8 | 92.0 | 91.7 | 93.5 | 94.6 | 98.2 | 96.6 | 99.9 | 97.8 | 95.0 | 145.7 |
| 31500 | 63 | 81.3 | 83.8 | 86.0 | 87.2 | 90.0 | 89.2 | 91.9 | 91.5 | 94.0 | 93.8 | 96.5 | 97.5 | 92.2 | 143.6 |
| 40000 | 63 | 77.6 | 79.9 | 83.3 | 84.1 | 84.9 | 84.7 | 86.9 | 86.8 | 90.3 | 91.9 | 94.7 | 93.4 | 87.9 | 141.7 |
| 50000 | 63 | 73.7 | 76.0 | 79.7 | 78.8 | 78.4 | 78.7 | 79.8 | 80.5 | 84.5 | 86.7 | 91.1 | 87.7 | 82.0 | 141.1 |
| 63000 | 63 | 69.7 | 71.1 | 76.0 | 74.2 | 73.2 | 73.1 | 73.4 | 73.7 | 78.7 | 83.3 | 86.1 | 81.4 | 76.9 | 140.3 |
| 80000 | 63 | 67.1 | 69.2 | 75.3 | 72.0 | 70.9 | 71.0 | 72.2 | 72.2 | 75.6 | 80.0 | 82.2 | 77.5 | 74.0 | 141.6 |
| 100000 | 63 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 147.7 |
| OVERALL MEASURED | | 111.5 | 111.9 | 112.5 | 112.9 | 113.4 | 113.9 | 115.2 | 117.4 | 119.9 | 122.6 | 126.7 | 129.1 | 127.4 | 163.8 |
| OVERALL CALCULATED | | 124.4 | 125.5 | 126.4 | 127.3 | 127.2 | 128.0 | 130.0 | 132.5 | 135.0 | 138.6 | 140.5 | 137.7 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 513 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-190cm²(29.4in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | PROC. DATE - MONTH 8 DAY 27 HR. 5.5 | | | | | | | |
|--------------------|---------------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------------------------------------|-------|-------|--------------------------|--|--|--|--|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | (0.) (0.) (0.) (0.) (0.) | | | | |
| NO EGA | 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 | | | | | |
| RDG. NO. | 86.2 | 87.5 | 88.7 | 90.3 | 91.1 | 92.2 | 93.6 | 96.3 | 98.2 | 102.6 | 106.3 | 111.0 | 113.0 | | | | | |
| RADIAL 150. FT. | 85.3 | 88.5 | 90.5 | 90.8 | 91.9 | 92.8 | 95.2 | 97.1 | 99.5 | 103.8 | 110.8 | 114.0 | 114.8 | | | | | |
| (46. M) | 87.4 | 91.6 | 90.4 | 91.9 | 94.3 | 95.4 | 96.0 | 98.2 | 101.1 | 106.7 | 112.7 | 116.3 | 116.1 | | | | | |
| VEHICLE CELL41 | 89.4 | 90.7 | 92.9 | 93.2 | 94.0 | 94.9 | 96.3 | 99.5 | 102.4 | 109.0 | 115.2 | 117.6 | 116.9 | | | | | |
| CONFIG NC54 | 90.2 | 91.0 | 92.5 | 93.3 | 93.9 | 95.7 | 97.4 | 100.3 | 104.0 | 110.8 | 116.0 | 119.0 | 117.8 | | | | | |
| LOC C41 ANECH CH | 91.3 | 92.8 | 93.6 | 94.9 | 95.7 | 97.1 | 99.5 | 101.6 | 105.6 | 111.4 | 116.1 | 119.3 | 117.8 | | | | | |
| DATE 06-11-76 | 93.1 | 93.9 | 95.1 | 95.7 | 97.0 | 98.4 | 100.0 | 102.9 | 106.9 | 111.9 | 116.9 | 119.6 | 118.6 | | | | | |
| RUN CONFVELDEPN | 96.4 | 96.9 | 97.5 | 98.0 | 97.8 | 99.2 | 103.8 | 103.7 | 107.5 | 112.0 | 115.7 | 118.9 | 118.7 | | | | | |
| TAPE X51130 | 96.5 | 98.0 | 99.0 | 99.1 | 99.4 | 101.0 | 102.2 | 105.1 | 108.5 | 111.9 | 115.8 | 120.2 | 118.5 | | | | | |
| BAR 29.2 HG | 104.1 | 102.1 | 99.9 | 99.7 | 99.3 | 101.1 | 101.8 | 104.4 | 108.9 | 111.7 | 115.4 | 120.4 | 118.4 | | | | | |
| (98739. N/M2) | 106.9 | 105.2 | 104.5 | 103.0 | 101.1 | 100.9 | 103.0 | 106.0 | 109.5 | 111.8 | 116.2 | 119.9 | 116.4 | | | | | |
| TAMB 90. DEG F | 105.0 | 106.3 | 106.6 | 106.6 | 104.7 | 103.3 | 104.0 | 106.6 | 109.6 | 111.4 | 116.9 | 118.0 | 113.6 | | | | | |
| (305. DEG K) | 102.3 | 104.1 | 104.6 | 105.9 | 107.2 | 108.1 | 108.2 | 106.6 | 110.1 | 111.9 | 117.6 | 116.3 | 112.1 | | | | | |
| TWET 76. DEG F | 100.6 | 101.2 | 102.2 | 102.3 | 104.5 | 105.7 | 106.3 | 107.7 | 109.7 | 112.0 | 115.7 | 114.4 | 109.7 | | | | | |
| (297. DEG K) | 99.5 | 100.5 | 101.8 | 102.3 | 102.7 | 104.5 | 106.7 | 108.6 | 109.6 | 111.4 | 114.1 | 113.3 | 108.5 | | | | | |
| HACT17.67 GM/M3 | 98.4 | 99.4 | 100.7 | 102.0 | 103.6 | 104.9 | 106.6 | 109.2 | 110.0 | 111.1 | 113.0 | 112.7 | 108.2 | | | | | |
| (-01767 KG/M3) | 97.0 | 98.4 | 99.2 | 101.4 | 102.8 | 104.4 | 106.5 | 108.4 | 110.4 | 111.3 | 112.0 | 111.4 | 106.9 | | | | | |
| FREQ. SHIFT | 95.1 | 97.5 | 98.8 | 100.5 | 102.1 | 103.0 | 105.1 | 107.3 | 109.3 | 110.2 | 109.3 | 110.2 | 106.0 | | | | | |
| DIAMETER RATIO | 92.2 | 96.0 | 97.1 | 99.3 | 100.6 | 101.5 | 104.1 | 105.0 | 106.9 | 108.1 | 109.0 | 109.3 | 104.7 | | | | | |
| JET 6 | 91.2 | 94.0 | 95.7 | 98.1 | 100.2 | 100.3 | 103.2 | 103.9 | 106.2 | 106.2 | 107.3 | 107.6 | 104.3 | | | | | |
| DP/DM 4.18 | 89.5 | 91.8 | 93.9 | 96.1 | 99.1 | 98.7 | 101.3 | 100.6 | 103.7 | 103.0 | 104.8 | 105.8 | 101.7 | | | | | |
| OVERALL CALCULATED | 86.2 | 89.0 | 91.2 | 92.4 | 95.1 | 94.3 | 97.0 | 96.6 | 99.2 | 99.0 | 101.7 | 102.6 | 97.4 | | | | | |
| H.NDB | 84.8 | 87.1 | 90.4 | 91.2 | 92.0 | 91.8 | 94.0 | 93.9 | 97.4 | 99.0 | 101.7 | 102.6 | 97.4 | | | | | |
| | 83.3 | 85.7 | 89.4 | 88.4 | 88.0 | 88.4 | 89.4 | 90.1 | 94.1 | 96.3 | 100.7 | 97.3 | 91.6 | | | | | |
| | 82.6 | 84.1 | 88.9 | 87.1 | 86.1 | 86.4 | 86.6 | 91.7 | 96.2 | 99.1 | 94.3 | 89.8 | 152.8 | | | | | |
| | 85.4 | 87.5 | 93.7 | 90.3 | 89.2 | 89.4 | 90.5 | 85.5 | 91.9 | 98.9 | 100.5 | 95.9 | 92.4 | | | | | |
| | 112.6 | 112.9 | 113.4 | 114.0 | 114.5 | 115.0 | 116.4 | 118.5 | 121.0 | 123.7 | 127.7 | 130.0 | 128.2 | | | | | |
| | 121.4 | 122.5 | 123.5 | 124.9 | 126.1 | 126.8 | 128.7 | 130.5 | 132.9 | 134.5 | 136.8 | 137.8 | 135.1 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5/13** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|-----------------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| STIDELINE 2400. FT.
(731.52 M) | 58.0 | 60.9 | 63.2 | 65.5 | 66.7 | 68.0 | 69.2 | 71.5 | 72.7 | 74.0 | 75.9 | 78.1 | 80.5 |
| NFA
(0. RAD/SEC) | 57.0 | 61.9 | 65.0 | 67.5 | 68.5 | 70.7 | 72.2 | 74.0 | 77.2 | 82.6 | 83.5 | 80.3 | 81.9 |
| YFK
(0. RAD/SEC) | 59.0 | 64.9 | 64.8 | 67.0 | 69.8 | 71.0 | 71.5 | 73.3 | 75.5 | 80.0 | 84.3 | 85.7 | 82.5 |
| MFO
(7500. RPM) | 60.9 | 63.8 | 67.2 | 68.2 | 69.5 | 70.5 | 74.5 | 76.7 | 82.2 | 80.8 | 86.9 | 82.5 | 82.6 |
| AIRFLOW RATIO
WF/W 4.12 | 61.6 | 64.1 | 66.7 | 68.2 | 69.2 | 71.3 | 72.7 | 75.2 | 78.2 | 83.9 | 87.5 | 88.0 | 82.9 |
| VEHICLE | 62.6 | 65.8 | 67.7 | 69.7 | 71.0 | 72.5 | 74.7 | 76.5 | 79.7 | 84.3 | 87.4 | 88.1 | 83.2 |
| LOC C41 ANECH CH | 64.1 | 66.0 | 69.0 | 70.3 | 72.1 | 73.6 | 75.1 | 77.6 | 80.8 | 84.7 | 87.9 | 88.1 | 83.2 |
| DATE 06-11-76 | 67.2 | 69.5 | 71.2 | 72.3 | 72.8 | 74.3 | 75.8 | 78.2 | 81.2 | 84.6 | 86.5 | 87.1 | 82.0 |
| TAPE XS1130 | 70.3 | 72.5 | 73.4 | 74.2 | 75.9 | 76.9 | 79.4 | 82.0 | 84.1 | 86.3 | 88.0 | 82.0 | 81.0 |
| FAN TIP SPEED | 74.0 | 73.1 | 73.7 | 73.7 | 73.7 | 75.8 | 76.2 | 78.4 | 82.1 | 83.6 | 85.4 | 87.6 | 81.0 |
| | 76.4 | 76.6 | 77.2 | 76.6 | 75.2 | 75.2 | 77.2 | 79.6 | 82.2 | 83.2 | 85.7 | 86.4 | 78.1 |
| | 77.2 | 78.9 | 79.8 | 78.4 | 77.2 | 77.6 | 79.8 | 81.9 | 82.3 | 85.7 | 86.4 | 78.1 | 73.9 |
| | 70.2 | 74.2 | 76.2 | 78.4 | 80.3 | 79.4 | 77.3 | 79.2 | 81.7 | 82.1 | 85.5 | 80.8 | 70.6 |
| | 67.4 | 70.4 | 73.0 | 75.3 | 77.0 | 78.3 | 78.7 | 79.6 | 80.5 | 81.3 | 82.5 | 77.4 | 66.2 |
| | 64.9 | 68.6 | 71.6 | 73.3 | 74.2 | 76.3 | 78.2 | 79.5 | 79.4 | 79.5 | 79.6 | 74.6 | 62.4 |
| | 61.9 | 65.9 | 69.1 | 71.6 | 73.9 | 75.5 | 76.9 | 78.9 | 78.4 | 77.6 | 76.5 | 71.5 | 58.4 |
| | 58.2 | 62.9 | 65.9 | 69.5 | 71.6 | 73.5 | 75.3 | 76.5 | 77.1 | 75.9 | 73.2 | 67.1 | 52.0 |
| | 52.7 | 59.2 | 63.1 | 66.4 | 66.8 | 69.9 | 71.8 | 73.1 | 73.6 | 72.0 | 68.5 | 61.9 | 45.3 |
| | 44.7 | 53.3 | 57.4 | 61.6 | 63.9 | 65.1 | 67.4 | 67.2 | 67.2 | 65.3 | 61.4 | 53.7 | 33.6 |
| | 35.6 | 44.6 | 50.1 | 54.9 | 53.3 | 58.8 | 61.3 | 60.7 | 60.6 | 56.7 | 51.7 | 41.5 | 17.6 |
| | 29.2 | 38.5 | 44.9 | 49.7 | 54.2 | 54.2 | 56.4 | 54.3 | 54.7 | 49.6 | 44.5 | 33.7 | 6.2 |
| | 13.4 | 25.2 | 32.3 | 38.1 | 42.2 | 42.6 | 43.7 | 42.9 | 43.0 | 35.7 | 29.7 | 11.7 | |
| | 6.6 | 16.6 | 22.6 | 28.0 | 28.0 | 28.0 | 29.9 | 26.9 | 24.7 | 16.6 | 6.5 | | |
| | | | 1.7 | 0.1 | 7.1 | 8.1 | 4.5 | 1.4 | | | | | |

| | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|
| OVERALL CALCULATED | 81.3 | 83.3 | 84.8 | 86.1 | 86.7 | 87.4 | 88.3 | 90.2 | 92.2 | 94.5 | 97.3 | 97.6 | 92.3 |
| PAEJ | 87.1 | 89.5 | 91.6 | 93.3 | 94.4 | 95.4 | 96.9 | 98.4 | 99.6 | 100.0 | 101.6 | 101.2 | 94.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/1/3 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
PRUC. DATE - MONTH 8 DAY 27 HR. 11.9
ANGLES FROM INLET IN DEGREES (AND RADIAN)
FREQ. (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)(3.15)

Table with columns: MO EGA, ROG. NO., RARIAL, VEHICLE, CONFIG, LCC, DATE, RUN, TAPE, RAR, TAMR, TWET, HACT, FREQ., JET, DIAMETER, DF/DM, OVERALL CALCULATED, PNDR

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
5 5114 12.2m(40ft.) ARC MODEL-190cm^2(29.4in^2)

| RDG. NO. | NO EGA | G. | RADIOAL 150. FT. | (46. M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | |
|--------------------|--------|-------|------------------|---------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. |
| 50 | 84.0 | 85.0 | 86.0 | 87.5 | 88.3 | 88.6 | 89.7 | 91.4 | 93.5 | 97.5 | 100.8 | 95.0 | 108.2 | 109.0 | 154.9 |
| 63 | 83.3 | 85.5 | 87.5 | 88.6 | 89.2 | 91.0 | 93.4 | 95.3 | 98.5 | 103.3 | 99.1 | 110.5 | 110.8 | 157.3 | |
| 80 | 84.9 | 89.1 | 88.1 | 90.4 | 92.3 | 93.1 | 95.0 | 96.9 | 100.6 | 103.9 | 100.9 | 113.3 | 112.9 | 158.1 | |
| 100 | 87.1 | 88.7 | 90.2 | 91.2 | 91.8 | 93.2 | 94.8 | 97.9 | 102.4 | 108.2 | 102.9 | 113.9 | 112.9 | 158.8 | |
| 125 | 87.7 | 88.5 | 90.0 | 90.8 | 92.6 | 94.7 | 95.6 | 98.5 | 103.0 | 109.3 | 103.5 | 114.7 | 113.2 | 158.2 | |
| 160 | 86.8 | 90.8 | 91.1 | 92.4 | 94.2 | 95.1 | 97.7 | 99.9 | 104.3 | 109.4 | 101.9 | 113.3 | 111.8 | 158.0 | |
| 200 | 90.1 | 91.6 | 93.2 | 93.9 | 95.0 | 95.8 | 97.4 | 100.1 | 102.5 | 106.7 | 109.8 | 110.7 | 110.9 | 157.6 | |
| 250 | 91.7 | 93.2 | 93.9 | 95.0 | 96.1 | 96.4 | 98.0 | 100.2 | 103.3 | 107.8 | 110.4 | 101.3 | 111.7 | 158.5 | |
| 315 | 91.7 | 93.8 | 95.0 | 96.1 | 96.7 | 97.5 | 98.6 | 100.8 | 103.4 | 108.4 | 110.5 | 101.4 | 111.4 | 159.0 | |
| 400 | 91.8 | 93.9 | 94.1 | 96.7 | 97.5 | 98.6 | 99.2 | 101.8 | 104.7 | 108.7 | 110.5 | 101.5 | 111.6 | 159.5 | |
| 500 | 92.1 | 93.7 | 94.9 | 96.0 | 97.8 | 99.2 | 101.8 | 104.4 | 106.2 | 108.0 | 108.7 | 97.8 | 107.4 | 159.1 | |
| 630 | 92.5 | 94.5 | 95.6 | 96.8 | 97.7 | 99.0 | 101.4 | 103.3 | 105.1 | 106.6 | 107.4 | 96.4 | 106.5 | 158.9 | |
| 800 | 92.7 | 94.5 | 96.1 | 97.3 | 98.4 | 99.5 | 102.2 | 106.1 | 109.1 | 111.4 | 101.9 | 111.8 | 109.3 | 159.0 | |
| 1000 | 92.1 | 94.4 | 96.1 | 97.2 | 98.3 | 99.9 | 102.5 | 106.4 | 108.4 | 111.5 | 101.4 | 110.6 | 107.1 | 158.9 | |
| 1250 | 92.7 | 95.7 | 96.8 | 98.0 | 98.4 | 100.2 | 102.6 | 106.3 | 108.0 | 111.1 | 101.6 | 109.7 | 106.7 | 159.0 | |
| 1600 | 92.8 | 97.4 | 98.4 | 98.7 | 99.5 | 101.6 | 103.8 | 106.7 | 108.7 | 110.3 | 100.0 | 109.4 | 105.9 | 158.4 | |
| 2000 | 92.2 | 96.8 | 98.6 | 100.1 | 100.7 | 101.6 | 104.9 | 106.9 | 108.6 | 110.5 | 99.4 | 108.8 | 105.3 | 157.2 | |
| HACT15.21 | 90.1 | 94.7 | 97.5 | 100.2 | 101.8 | 101.4 | 104.1 | 106.2 | 108.0 | 108.7 | 97.8 | 107.4 | 104.9 | 156.6 | |
| 3150 | 88.0 | 92.5 | 95.1 | 97.8 | 100.1 | 100.7 | 104.1 | 106.4 | 106.3 | 106.8 | 96.4 | 106.5 | 103.2 | 154.9 | |
| FREQ. SHIFT | 4000 | 86.4 | 91.5 | 93.9 | 97.1 | 99.4 | 100.0 | 103.9 | 103.6 | 105.4 | 95.2 | 104.8 | 102.0 | 152.8 | |
| JET | 5000 | 84.0 | 88.8 | 92.1 | 95.3 | 99.0 | 98.6 | 102.3 | 100.8 | 103.9 | 103.1 | 92.3 | 102.7 | 151.7 | |
| DIAMETER RATIO | 6300 | 81.9 | 87.2 | 89.5 | 92.9 | 95.8 | 97.6 | 99.0 | 102.3 | 100.7 | 91.2 | 98.3 | 97.7 | 149.6 | |
| DF/DH 4.18 | 8000 | 80.4 | 85.5 | 89.1 | 92.1 | 94.8 | 94.6 | 98.0 | 97.3 | 100.6 | 99.4 | 89.4 | 100.1 | 153.7 | |
| | 10000 | 78.2 | 82.0 | 86.9 | 89.7 | 91.5 | 92.0 | 94.7 | 94.4 | 98.1 | 98.9 | 87.8 | 97.2 | 149.6 | |
| | 12500 | 71.5 | 76.8 | 81.8 | 84.6 | 85.9 | 87.0 | 88.8 | 89.8 | 95.0 | 96.2 | 85.4 | 92.9 | 153.7 | |
| | 16000 | 67.2 | 72.6 | 77.9 | 80.2 | 81.4 | 82.1 | 83.7 | 84.4 | 91.7 | 93.7 | 82.8 | 89.1 | 171.6 | |
| | 20000 | 67.3 | 72.1 | 77.4 | 77.1 | 81.6 | 82.9 | 84.4 | 83.5 | 92.5 | 95.1 | 83.5 | 87.4 | | |
| OVERALL CALCULATED | 103.6 | 106.6 | 108.1 | 109.7 | 111.2 | 112.1 | 114.8 | 117.1 | 120.1 | 122.6 | 113.8 | 124.3 | 122.9 | | |
| PROB | 114.6 | 118.5 | 120.6 | 122.8 | 124.4 | 124.9 | 127.9 | 129.5 | 132.0 | 133.4 | 133.6 | 133.5 | 131.3 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5/14** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | MFA
(0. RPM) | MFK
(1. RPM) | MFD
(0. RAD/SEC) | AIRFLOW RATIO
WF/WN 4.18 | VEHICLE
CELL41 | FULL SCALE DATA REDUCTION PROGRAM | | | | | | | | | | | | |
|--------------------|----------------------------------|------------------|------------------|----------------------|-----------------------------|-------------------|-----------------------------------|------|------|--|------|------|--|------|------|--------|------|------|------|
| | | | | | | | FULL SIZE SOUND PRESSURE | | | LEVELS SCALED FROM INLET IN DEGREES (AND RADIAN) | | | FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | ANGLES | | | |
| | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 55.8 | 58.4 | 60.5 | 63.5 | 64.2 | 65.5 | 67.0 | 68.7 | 72.0 | 74.2 | 76.7 | 78.8 | 80.0 | 82.0 | 83.8 | 85.1 | 86.6 | 88.0 | 89.5 |
| 63 | 55.0 | 59.9 | 62.0 | 63.7 | 64.7 | 66.7 | 69.0 | 70.5 | 73.0 | 75.0 | 76.7 | 78.8 | 80.0 | 82.0 | 83.8 | 85.1 | 86.6 | 88.0 | 89.5 |
| 80 | 56.5 | 62.4 | 62.5 | 65.5 | 67.8 | 68.8 | 70.2 | 71.0 | 73.5 | 75.0 | 76.7 | 78.8 | 80.0 | 82.0 | 83.8 | 85.1 | 86.6 | 88.0 | 89.5 |
| 100 | 58.7 | 61.8 | 64.5 | 66.2 | 67.2 | 68.8 | 70.2 | 71.0 | 73.5 | 75.0 | 76.7 | 78.8 | 80.0 | 82.0 | 83.8 | 85.1 | 86.6 | 88.0 | 89.5 |
| 125 | 59.1 | 61.6 | 64.2 | 65.7 | 68.0 | 69.5 | 71.0 | 71.9 | 73.9 | 75.8 | 78.9 | 82.3 | 83.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 |
| 160 | 60.1 | 63.8 | 65.2 | 67.2 | 69.5 | 70.4 | 71.9 | 73.9 | 75.8 | 80.0 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 |
| 200 | 61.1 | 64.3 | 65.8 | 68.3 | 70.4 | 71.9 | 73.9 | 75.8 | 80.0 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 |
| 250 | 62.4 | 65.7 | 67.7 | 69.5 | 70.8 | 72.5 | 75.0 | 77.0 | 80.4 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 |
| 315 | 62.2 | 66.0 | 68.5 | 70.3 | 71.2 | 72.9 | 74.9 | 77.6 | 81.3 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 |
| 400 | 61.9 | 65.8 | 67.3 | 70.7 | 72.0 | 73.2 | 75.3 | 77.4 | 81.5 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 |
| 500 | 61.6 | 65.1 | 67.7 | 69.6 | 71.9 | 73.5 | 75.9 | 78.4 | 81.5 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 |
| 630 | 61.3 | 65.4 | 67.8 | 70.0 | 71.4 | 72.9 | 75.1 | 78.5 | 81.3 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 |
| 800 | 60.6 | 64.7 | 67.7 | 69.9 | 71.5 | 72.8 | 75.3 | 78.7 | 80.7 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 |
| 1000 | 58.9 | 63.6 | 67.0 | 69.0 | 70.7 | 72.5 | 74.9 | 78.3 | 79.2 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 |
| 1250 | 58.1 | 63.8 | 66.6 | 69.0 | 69.9 | 72.0 | 74.2 | 77.2 | 77.9 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 |
| 1600 | 56.3 | 63.9 | 66.8 | 68.3 | 69.8 | 72.2 | 74.1 | 76.3 | 77.1 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 |
| 2000 | 53.4 | 61.4 | 65.3 | 68.2 | 69.5 | 70.6 | 73.8 | 75.0 | 75.3 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| RUN CONF5VELDEPN | 47.9 | 50.4 | 51.8 | 56.1 | 56.4 | 58.4 | 60.0 | 63.4 | 67.4 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 |
| TAPE X51140 | 40.4 | 49.7 | 55.4 | 60.0 | 63.4 | 64.3 | 67.4 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 |
| FAN TIP SPEED | 30.8 | 42.0 | 48.3 | 53.9 | 57.5 | 58.5 | 62.0 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |
| FT/SEC | 5000 | 23.7 | 35.4 | 43.1 | 48.9 | 54.1 | 54.2 | 57.4 | 54.5 | 54.9 | 49.8 | 32.0 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 |
| 8000 | 6300 | 7.8 | 22.4 | 30.5 | 37.3 | 42.2 | 42.8 | 43.9 | 43.4 | 43.2 | 35.9 | 17.2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 12500 | | | 3.1 | 14.6 | 22.3 | 27.7 | 28.3 | 30.9 | 27.6 | 26.1 | 17.1 | | | | | | | | |
| 16000 | | | | | 0.2 | 5.6 | 7.3 | 8.8 | 4.9 | 2.1 | | | | | | | | | |
| 20000 | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.1 | 76.2 | 78.6 | 80.9 | 82.5 | 84.0 | 86.2 | 88.7 | 91.4 | 93.2 | 83.5 | 91.8 | 86.9 | | | | | | |
| PND8 | 77.1 | 83.3 | 86.6 | 89.5 | 91.6 | 92.6 | 95.3 | 96.9 | 98.4 | 98.9 | 87.4 | 94.7 | 88.1 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5114** ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. G. 0. 0. PwL
 FREQ. (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) (3.15) (3.3)

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | G. | 0. | 0. | PwL |
|----------|---------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|-------|
| 100 | 63 | 83.1 | 89.9 | 91.2 | 92.3 | 91.7 | 92.6 | 93.5 | 93.9 | 95.5 | 99.9 | 99.9 | 99.9 | 102.4 | | | | | 137.3 |
| 125 | 80 | 81.1 | 86.4 | 88.9 | 90.8 | 92.1 | 93.0 | 94.2 | 93.1 | 92.7 | 100.9 | 103.1 | 103.1 | 103.1 | | | | | 137.9 |
| 160 | 125 | 80.9 | 87.7 | 87.5 | 88.1 | 88.4 | 88.8 | 90.7 | 92.2 | 97.2 | 102.4 | 103.9 | 105.2 | 105.2 | | | | | 138.7 |
| 200 | 200 | 84.3 | 84.8 | 86.3 | 87.8 | 89.0 | 90.9 | 93.1 | 95.8 | 100.6 | 104.3 | 104.5 | 109.5 | 109.5 | | | | | 142.2 |
| 250 | 250 | 83.1 | 85.8 | 87.3 | 87.9 | 89.1 | 91.0 | 93.0 | 94.6 | 98.9 | 101.7 | 110.5 | 111.1 | 111.1 | | | | | 146.4 |
| 315 | 315 | 84.7 | 88.4 | 87.7 | 89.5 | 91.3 | 93.8 | 96.0 | 98.9 | 104.5 | 110.2 | 112.9 | 112.4 | 112.4 | | | | | 146.4 |
| 400 | 400 | 86.9 | 88.0 | 90.3 | 91.8 | 93.2 | 93.8 | 96.8 | 100.5 | 106.3 | 111.7 | 113.7 | 112.5 | 112.5 | | | | | 147.3 |
| 500 | 500 | 87.3 | 88.0 | 89.0 | 90.3 | 91.4 | 93.5 | 94.9 | 97.8 | 101.0 | 107.4 | 111.3 | 112.3 | 112.3 | | | | | 147.3 |
| 630 | 630 | 88.6 | 89.6 | 90.4 | 91.4 | 94.9 | 96.5 | 98.7 | 102.7 | 108.0 | 110.9 | 112.6 | 111.6 | 111.6 | | | | | 147.3 |
| 800 | 800 | 89.4 | 91.4 | 91.7 | 93.2 | 94.3 | 95.9 | 97.5 | 100.2 | 104.7 | 109.2 | 110.4 | 111.1 | 111.2 | | | | | 149.2 |
| 1000 | 1000 | 91.5 | 92.0 | 93.3 | 94.3 | 95.4 | 97.0 | 98.4 | 101.5 | 105.3 | 109.1 | 110.0 | 110.0 | 110.7 | | | | | 146.7 |
| 1250 | 1250 | 91.3 | 92.8 | 94.6 | 95.1 | 96.0 | 97.3 | 99.0 | 102.6 | 106.6 | 108.9 | 109.9 | 111.5 | 111.1 | | | | | 147.3 |
| 1600 | 1600 | 92.2 | 93.4 | 94.0 | 95.0 | 96.3 | 98.4 | 99.3 | 102.2 | 107.2 | 109.5 | 110.7 | 112.2 | 112.7 | | | | | 148.0 |
| 2000 | 2000 | 92.7 | 93.7 | 95.0 | 95.5 | 97.6 | 98.5 | 100.1 | 103.5 | 107.5 | 109.3 | 111.5 | 113.7 | 113.0 | | | | | 148.8 |
| 2500 | 2500 | 92.8 | 93.9 | 95.4 | 96.2 | 97.5 | 99.1 | 101.5 | 103.9 | 107.9 | 109.2 | 112.4 | 114.3 | 112.4 | | | | | 149.2 |
| 3150 | 3150 | 93.8 | 95.1 | 96.6 | 96.6 | 98.5 | 99.1 | 101.0 | 104.6 | 108.4 | 110.0 | 113.9 | 114.3 | 112.1 | | | | | 149.8 |
| 4000 | 4000 | 95.1 | 96.4 | 96.2 | 98.0 | 99.1 | 101.3 | 105.4 | 107.9 | 110.0 | 113.7 | 112.3 | 108.1 | 108.1 | | | | | 149.1 |
| 5000 | 5000 | 97.7 | 97.3 | 97.5 | 97.3 | 97.6 | 99.5 | 101.4 | 103.3 | 107.5 | 109.4 | 113.1 | 110.7 | 107.5 | | | | | 148.6 |
| 6300 | 6300 | 95.6 | 98.1 | 99.9 | 99.5 | 99.9 | 99.5 | 100.6 | 102.2 | 104.6 | 107.9 | 109.3 | 111.4 | 109.8 | 106.3 | | | | 148.2 |
| 8000 | 8000 | 93.0 | 95.4 | 96.7 | 99.9 | 100.8 | 100.8 | 102.5 | 104.7 | 106.7 | 106.6 | 110.0 | 103.6 | 105.9 | | | | | 147.6 |
| 10000 | 10000 | 91.2 | 94.3 | 95.4 | 97.6 | 100.4 | 100.5 | 102.7 | 104.1 | 106.6 | 107.8 | 108.2 | 107.6 | 104.3 | | | | | 147.1 |
| 12500 | 12500 | 88.3 | 92.8 | 94.2 | 95.2 | 97.2 | 98.6 | 101.7 | 101.8 | 104.2 | 105.1 | 106.5 | 105.6 | 103.3 | | | | | 145.5 |
| 16000 | 16000 | 86.6 | 91.1 | 92.1 | 94.7 | 96.0 | 96.9 | 100.3 | 100.5 | 103.1 | 102.6 | 104.7 | 103.9 | 102.4 | | | | | 146.7 |
| 20000 | 20000 | 83.0 | 87.3 | 90.0 | 91.6 | 95.1 | 94.2 | 97.6 | 96.7 | 100.2 | 98.7 | 100.9 | 100.1 | 99.0 | | | | | 142.4 |
| 25000 | 25000 | 79.6 | 84.3 | 85.2 | 87.5 | 90.3 | 90.7 | 92.3 | 93.6 | 96.7 | 95.4 | 99.2 | 95.8 | 95.3 | | | | | 140.5 |
| 31500 | 31500 | 76.3 | 81.8 | 83.7 | 86.2 | 88.0 | 87.7 | 90.6 | 90.5 | 93.3 | 93.0 | 95.3 | 95.7 | 92.5 | | | | | 140.0 |
| 40000 | 40000 | 71.1 | 76.2 | 80.0 | 81.3 | 82.1 | 82.4 | 86.1 | 86.0 | 89.0 | 90.6 | 92.4 | 91.1 | 88.9 | | | | | 139.4 |
| 50000 | 50000 | 65.4 | 70.0 | 73.5 | 74.6 | 74.7 | 75.0 | 79.0 | 78.5 | 82.8 | 84.7 | 86.4 | 84.4 | 82.8 | | | | | 137.8 |
| 63000 | 63000 | 60.4 | 63.6 | 68.0 | 68.4 | 67.2 | 68.6 | 73.2 | 71.9 | 75.7 | 79.1 | 82.9 | 77.6 | 77.1 | | | | | 133.1 |
| 80000 | 80000 | 57.3 | 60.4 | 65.8 | 63.7 | 62.4 | 64.0 | 71.9 | 66.4 | 71.6 | 75.8 | 79.4 | 73.5 | 72.3 | | | | | 143.9 |

OVERALL MEASURED
 OVERALL CALCULATED 105.1 107.0 107.7 108.2 110.1 111.1 113.0 115.5 118.8 121.1 123.9 124.7 123.7
 PNOB 118.7 120.4 120.7 121.3 122.3 123.2 125.1 128.3 131.5 133.7 137.0 137.6 135.9

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/15 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-190cm²(29.4in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 27 HR. 5.5

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | PWL | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. | 160. | 170. | 180. |
| 50 | (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) | (2.97) | (3.14) | (3.32) |
| 63 | 85.2 | 85.7 | 87.2 | 88.2 | 89.6 | 90.0 | 91.9 | 94.0 | 96.7 | 101.6 | 105.3 | 109.5 | 110.5 | 111.5 | 112.0 | 112.0 |
| 80 | 84.0 | 86.8 | 88.3 | 88.8 | 89.9 | 91.0 | 93.9 | 95.6 | 97.8 | 102.6 | 109.1 | 111.5 | 112.0 | 113.4 | 113.4 | 113.4 |
| 100 | 87.9 | 88.9 | 90.9 | 91.2 | 92.6 | 94.2 | 94.8 | 97.7 | 101.4 | 107.2 | 112.7 | 114.6 | 113.4 | 113.4 | 113.4 | 113.4 |
| 125 | 88.2 | 89.0 | 90.0 | 91.3 | 92.4 | 94.5 | 95.9 | 98.8 | 102.0 | 108.3 | 112.3 | 114.5 | 113.2 | 113.2 | 113.2 | 113.2 |
| 160 | 89.6 | 90.6 | 91.3 | 93.4 | 94.2 | 95.6 | 97.5 | 99.6 | 103.6 | 108.9 | 111.9 | 113.6 | 112.6 | 112.6 | 112.6 | 112.6 |
| 200 | 90.3 | 92.4 | 92.6 | 94.2 | 95.2 | 96.9 | 98.5 | 101.2 | 105.6 | 110.2 | 111.4 | 112.1 | 112.1 | 112.1 | 112.1 | 112.1 |
| 250 | 92.4 | 92.9 | 94.2 | 95.2 | 96.3 | 97.9 | 99.3 | 102.5 | 106.2 | 110.0 | 111.0 | 110.9 | 111.7 | 111.7 | 111.7 | 111.7 |
| 315 | 92.2 | 93.8 | 95.5 | 96.1 | 96.9 | 98.3 | 99.9 | 103.6 | 107.5 | 109.9 | 110.8 | 112.5 | 112.0 | 112.0 | 112.0 | 112.0 |
| 400 | 93.1 | 94.4 | 94.9 | 95.9 | 97.3 | 99.4 | 100.3 | 103.2 | 108.2 | 110.5 | 111.7 | 113.1 | 113.6 | 113.6 | 113.6 | 113.6 |
| 500 | 93.7 | 94.7 | 96.0 | 96.5 | 98.6 | 99.4 | 101.1 | 104.5 | 108.5 | 110.3 | 112.5 | 114.7 | 113.9 | 113.9 | 113.9 | 113.9 |
| 630 | 93.8 | 94.8 | 96.3 | 97.1 | 98.5 | 100.1 | 102.5 | 104.9 | 108.8 | 110.2 | 113.4 | 115.3 | 113.3 | 113.3 | 113.3 | 113.3 |
| 800 | 94.6 | 96.1 | 96.8 | 97.6 | 99.5 | 100.1 | 102.0 | 105.6 | 109.3 | 110.9 | 114.9 | 115.3 | 113.1 | 113.1 | 113.1 | 113.1 |
| 1000 | 96.1 | 97.4 | 97.2 | 97.5 | 99.0 | 100.2 | 102.4 | 106.2 | 108.9 | 111.0 | 114.7 | 113.4 | 109.2 | 109.2 | 109.2 | 109.2 |
| 1250 | 98.7 | 100.3 | 98.6 | 98.3 | 98.7 | 100.5 | 102.4 | 106.3 | 108.6 | 110.4 | 116.1 | 111.8 | 108.5 | 108.5 | 108.5 | 108.5 |
| 1600 | 96.9 | 99.2 | 101.0 | 101.0 | 100.6 | 101.7 | 103.3 | 105.7 | 109.0 | 110.4 | 112.5 | 110.9 | 107.9 | 107.9 | 107.9 | 107.9 |
| 2000 | 94.3 | 96.6 | 97.9 | 101.2 | 102.0 | 101.9 | 103.8 | 105.9 | 107.9 | 109.8 | 111.2 | 109.9 | 107.1 | 107.1 | 107.1 | 107.1 |
| 2500 | 92.6 | 95.7 | 96.8 | 98.0 | 101.9 | 102.0 | 104.1 | 105.5 | 108.1 | 109.2 | 109.6 | 109.0 | 106.2 | 106.2 | 106.2 | 106.2 |
| 3150 | 90.0 | 94.5 | 95.9 | 96.8 | 98.9 | 100.2 | 103.4 | 105.5 | 105.9 | 106.8 | 108.2 | 107.3 | 105.0 | 105.0 | 105.0 | 105.0 |
| 4000 | 88.7 | 93.3 | 94.2 | 96.9 | 98.2 | 99.0 | 102.4 | 102.7 | 105.2 | 104.7 | 106.8 | 106.1 | 104.5 | 104.5 | 104.5 | 104.5 |
| 5000 | 86.0 | 90.3 | 92.9 | 94.6 | 98.1 | 97.2 | 100.6 | 99.6 | 103.2 | 101.7 | 103.8 | 103.0 | 101.9 | 101.9 | 101.9 | 101.9 |
| 6300 | 83.4 | 88.2 | 89.1 | 91.4 | 94.1 | 94.6 | 96.1 | 97.5 | 100.6 | 99.2 | 103.1 | 99.6 | 99.2 | 99.2 | 99.2 | 99.2 |
| 8000 | 81.4 | 87.0 | 88.9 | 91.4 | 93.1 | 92.8 | 95.8 | 95.6 | 98.4 | 98.2 | 100.5 | 100.9 | 97.6 | 97.6 | 97.6 | 97.6 |
| 10000 | 78.3 | 83.3 | 85.2 | 88.5 | 89.3 | 89.6 | 93.3 | 93.2 | 96.2 | 97.8 | 99.6 | 98.3 | 96.1 | 96.1 | 96.1 | 96.1 |
| 12500 | 75.1 | 79.7 | 83.1 | 84.2 | 84.3 | 84.6 | 88.6 | 88.1 | 92.4 | 94.3 | 98.0 | 94.0 | 92.4 | 92.4 | 92.4 | 92.4 |
| 16000 | 73.4 | 76.6 | 80.9 | 81.4 | 80.1 | 81.6 | 86.1 | 84.9 | 88.7 | 92.0 | 95.8 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| 20000 | 75.7 | 78.8 | 84.2 | 82.1 | 80.7 | 82.4 | 80.3 | 84.7 | 89.9 | 94.2 | 97.8 | 91.9 | 91.1 | 91.1 | 91.1 | 91.1 |
| OVERALL CALCULATED | 106.1 | 108.0 | 108.9 | 110.0 | 111.3 | 112.2 | 114.3 | 116.7 | 119.9 | 122.2 | 125.0 | 125.7 | 124.6 | 124.6 | 124.6 | 124.6 |
| PND8 | 116.9 | 119.6 | 120.8 | 122.4 | 124.4 | 124.9 | 127.2 | 128.8 | 131.7 | 133.3 | 135.1 | 134.9 | 133.0 | 133.0 | 133.0 | 133.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/15 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO EGA | (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) |
| SIDELINE 2600. FT. | 57.0 | 59.1 | 61.7 | 64.0 | 65.2 | 65.7 | 67.5 | 69.2 | 71.2 | 74.9 | 77.1 | 79.0 | 76.6 |
| (731-52 ft.) | 55.8 | 60.1 | 62.7 | 64.0 | 65.5 | 66.7 | 69.5 | 70.7 | 72.2 | 75.9 | 80.8 | 81.0 | 78.0 |
| MFA | 57.3 | 62.6 | 63.0 | 65.5 | 67.8 | 68.3 | 70.3 | 72.0 | 74.3 | 78.7 | 82.8 | 83.2 | 79.2 |
| (0. RAD/SEC) | 59.4 | 62.1 | 65.2 | 66.2 | 68.3 | 69.8 | 70.3 | 72.7 | 75.7 | 80.4 | 84.3 | 83.9 | 79.0 |
| (1. RPM) | 60.6 | 63.5 | 65.4 | 68.2 | 69.5 | 71.2 | 71.2 | 73.7 | 76.2 | 81.4 | 83.7 | 83.5 | 78.6 |
| (0. RAD/SEC) | 61.4 | 65.1 | 66.5 | 68.8 | 70.4 | 72.1 | 73.6 | 75.8 | 79.5 | 82.9 | 82.4 | 80.6 | 76.7 |
| (0. RAD/SEC) | 63.2 | 65.5 | 67.9 | 69.7 | 71.3 | 73.0 | 74.3 | 77.9 | 82.6 | 81.8 | 79.1 | 75.8 | |
| MFD 7500. RPM | 62.7 | 66.0 | 69.0 | 70.4 | 71.7 | 73.2 | 74.7 | 77.9 | 81.0 | 82.1 | 81.3 | 80.3 | 75.5 |
| (785. RAD/SEC) | 63.1 | 66.1 | 68.7 | 70.1 | 72.7 | 74.0 | 74.7 | 77.2 | 81.3 | 82.4 | 81.7 | 80.3 | 75.3 |
| AIRFLOW RATIO | 500 | 62.6 | 65.7 | 68.6 | 70.3 | 72.1 | 73.9 | 76.1 | 78.0 | 81.1 | 81.0 | 82.2 | 80.9 |
| WF/WM 4.18 | 800 | 62.7 | 66.2 | 68.5 | 70.2 | 72.6 | 73.4 | 75.1 | 78.2 | 81.1 | 81.1 | 82.8 | 79.8 |
| VEHICLE CELL41 | 1000 | 62.9 | 66.6 | 68.0 | 69.3 | 71.5 | 72.8 | 74.7 | 78.1 | 79.8 | 80.3 | 81.5 | 76.4 |
| CONFIG NCS4 | 1250 | 64.2 | 68.6 | 68.4 | 69.3 | 70.2 | 72.3 | 74.0 | 77.3 | 78.5 | 79.6 | 73.1 | 62.4 |
| LOC C41 ANECH CH | 1600 | 60.4 | 65.7 | 59.4 | 70.6 | 70.9 | 72.2 | 73.6 | 75.4 | 77.4 | 76.8 | 76.0 | 69.7 |
| DATE 06-11-76 | 2000 | 55.5 | 61.2 | 64.6 | 69.3 | 70.8 | 71.0 | 72.6 | 74.0 | 74.6 | 74.4 | 72.4 | 65.0 |
| RUN CONF/S/ELDEPN | 2500 | 50.4 | 57.5 | 61.1 | 64.9 | 68.6 | 68.9 | 70.8 | 71.4 | 72.3 | 71.0 | 67.5 | 60.4 |
| TAPE R51150 | 3150 | 42.5 | 51.8 | 56.2 | 59.1 | 62.2 | 63.8 | 66.7 | 65.7 | 66.2 | 64.1 | 60.7 | 51.7 |
| FAN TIP SPEED | 4000 | 33.1 | 43.8 | 48.6 | 53.7 | 56.3 | 57.5 | 60.5 | 59.5 | 55.2 | 51.2 | 40.0 | 18.0 |
| FT/SEC | 5000 | 25.7 | 37.0 | 43.9 | 48.2 | 53.2 | 52.7 | 55.7 | 53.3 | 54.2 | 48.4 | 43.5 | 30.9 |
| | 6300 | 9.4 | 23.4 | 30.0 | 35.8 | 40.5 | 41.6 | 42.5 | 41.9 | 41.5 | 34.4 | 29.0 | 9.7 |
| | 8000 | 4.6 | 14.4 | 21.6 | 26.0 | 26.5 | 28.7 | 25.9 | 23.9 | 15.9 | 5.3 | | |
| | 10000 | | | | 3.4 | 4.8 | 7.4 | 3.7 | 0.1 | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| | 20000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 73.7 | 77.3 | 79.5 | 81.3 | 83.0 | 84.4 | 86.0 | 88.4 | 91.1 | 92.9 | 94.0 | 92.8 | 88.1 |
| F:09 | 79.9 | 84.7 | 87.8 | 90.0 | 91.9 | 92.9 | 94.7 | 96.3 | 98.2 | 98.0 | 98.8 | 96.3 | 90.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/15 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 100 | 86.9 | 97.2 | 95.2 | 96.7 | 98.0 | 98.4 | 99.3 | 99.5 | 100.7 | 101.2 | 105.7 | 105.9 | 109.2 | 143.2 | | | | |
| 125 | 87.1 | 90.9 | 92.1 | 94.4 | 96.7 | 97.9 | 98.7 | 99.7 | 98.1 | 97.2 | 106.6 | 108.6 | 109.1 | 143.3 | | | | |
| 160 | 86.6 | 90.2 | 93.2 | 93.5 | 93.8 | 94.7 | 94.8 | 97.0 | 98.7 | 104.7 | 108.2 | 110.4 | 111.9 | 145.0 | | | | |
| 200 | 89.0 | 90.3 | 91.3 | 94.1 | 95.2 | 96.3 | 98.2 | 99.3 | 103.0 | 107.1 | 111.6 | 116.0 | 116.3 | 149.2 | | | | |
| 250 | 88.3 | 91.8 | 92.8 | 93.6 | 95.2 | 96.8 | 100.0 | 101.4 | 105.1 | 110.4 | 116.1 | 118.0 | 117.6 | 151.7 | | | | |
| 315 | 90.9 | 94.7 | 93.4 | 95.5 | 97.6 | 99.2 | 101.8 | 103.7 | 107.4 | 113.2 | 119.0 | 120.9 | 119.7 | 154.3 | | | | |
| 400 | 93.2 | 95.0 | 96.0 | 96.5 | 97.8 | 100.0 | 102.1 | 105.5 | 110.2 | 117.3 | 122.2 | 122.9 | 120.2 | 156.8 | | | | |
| 500 | 94.5 | 95.3 | 96.3 | 97.1 | 98.7 | 101.0 | 102.9 | 105.8 | 111.5 | 119.9 | 124.1 | 124.2 | 120.8 | 158.4 | | | | |
| 630 | 96.1 | 97.6 | 98.1 | 99.2 | 100.5 | 102.6 | 104.8 | 108.2 | 113.4 | 121.5 | 124.9 | 125.6 | 122.6 | 159.7 | | | | |
| 800 | 99.9 | 99.9 | 100.2 | 101.7 | 102.3 | 103.9 | 106.5 | 109.7 | 115.7 | 123.2 | 126.4 | 126.9 | 124.1 | 161.2 | | | | |
| 1000 | 104.9 | 105.5 | 104.7 | 104.8 | 105.9 | 106.2 | 107.9 | 110.5 | 115.5 | 123.6 | 126.5 | 126.7 | 124.2 | 161.4 | | | | |
| 1250 | 107.8 | 107.6 | 106.6 | 105.9 | 105.7 | 107.3 | 108.4 | 111.6 | 116.3 | 122.9 | 126.8 | 127.0 | 123.3 | 161.5 | | | | |
| 1600 | 109.6 | 109.4 | 108.2 | 108.2 | 105.8 | 106.4 | 108.3 | 111.2 | 115.9 | 122.5 | 125.2 | 125.1 | 121.4 | 160.2 | | | | |
| 2000 | 108.9 | 108.5 | 109.5 | 109.7 | 109.3 | 107.7 | 108.8 | 111.2 | 115.5 | 121.3 | 123.2 | 122.7 | 118.2 | 158.6 | | | | |
| 2500 | 107.8 | 108.3 | 108.3 | 109.1 | 109.9 | 109.8 | 109.4 | 111.6 | 115.8 | 119.4 | 121.4 | 121.5 | 117.1 | 157.5 | | | | |
| 3150 | 107.5 | 109.3 | 109.3 | 109.1 | 109.2 | 109.8 | 110.7 | 112.6 | 115.8 | 119.7 | 121.1 | 120.0 | 115.5 | 157.3 | | | | |
| 4000 | 106.3 | 108.8 | 109.4 | 109.6 | 109.6 | 109.1 | 110.5 | 112.6 | 115.4 | 118.2 | 119.4 | 118.3 | 113.1 | 156.2 | | | | |
| 5000 | 106.2 | 109.0 | 108.5 | 109.3 | 109.2 | 109.0 | 110.4 | 112.5 | 116.3 | 117.6 | 118.8 | 117.2 | 112.7 | 155.8 | | | | |
| 6300 | 105.0 | 108.3 | 108.4 | 109.4 | 110.5 | 111.3 | 111.5 | 111.9 | 114.1 | 116.0 | 117.9 | 116.3 | 112.6 | 155.4 | | | | |
| 8000 | 104.3 | 106.9 | 107.2 | 109.0 | 110.3 | 110.9 | 111.6 | 111.2 | 113.5 | 115.6 | 117.1 | 115.4 | 111.2 | 155.0 | | | | |
| 10000 | 102.5 | 106.2 | 106.5 | 108.5 | 110.1 | 109.2 | 111.1 | 111.0 | 113.0 | 114.7 | 115.6 | 114.9 | 110.7 | 154.6 | | | | |
| 12500 | 100.2 | 103.8 | 105.0 | 106.9 | 107.7 | 108.8 | 109.9 | 108.8 | 110.5 | 112.7 | 114.0 | 113.3 | 109.0 | 153.3 | | | | |
| 16000 | 98.7 | 102.5 | 103.0 | 105.6 | 106.7 | 107.0 | 109.4 | 107.6 | 110.0 | 111.0 | 113.4 | 112.1 | 108.5 | 153.0 | | | | |
| 20000 | 96.0 | 99.4 | 100.4 | 102.2 | 105.4 | 104.7 | 107.4 | 105.3 | 108.4 | 108.4 | 108.7 | 114.3 | 114.3 | 152.3 | | | | |
| 25000 | 92.5 | 97.4 | 96.5 | 98.8 | 100.3 | 99.5 | 102.0 | 100.9 | 103.5 | 104.7 | 107.2 | 105.9 | 109.5 | 151.2 | | | | |
| 31500 | 90.9 | 95.4 | 96.5 | 98.8 | 100.3 | 99.5 | 102.0 | 100.9 | 103.5 | 104.7 | 107.2 | 105.9 | 109.5 | 151.7 | | | | |
| 40000 | 86.8 | 91.5 | 94.6 | 95.5 | 95.8 | 96.0 | 98.8 | 96.7 | 100.1 | 103.4 | 105.7 | 103.6 | 106.6 | 152.4 | | | | |
| 50000 | 80.5 | 86.4 | 89.8 | 91.0 | 90.0 | 90.3 | 92.4 | 91.2 | 95.4 | 99.3 | 101.4 | 98.1 | 103.1 | 152.1 | | | | |
| 63000 | 75.1 | 81.1 | 86.7 | 86.0 | 84.5 | 85.4 | 87.5 | 86.3 | 90.7 | 95.3 | 98.1 | 92.5 | 97.4 | 153.9 | | | | |
| 80000 | 70.1 | 77.3 | 82.9 | 81.7 | 78.8 | 80.7 | 84.6 | 81.9 | 87.4 | 92.3 | 94.9 | 87.0 | 94.4 | 159.8 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | |
| PNDB 130.1 131.8 131.8 132.4 132.5 133.0 134.0 135.9 139.3 143.7 146.0 145.8 142.2 | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5/50** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-116cm²(18in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | PROC. DATE - MONTH 3 DAY 30 HR. 16.3 |
|-------|---|-------|-------|-------|-------|-------|-------|---|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | |
| 53 | 91.4 | 94.9 | 95.9 | 96.7 | 98.3 | 99.9 | 103.0 | 100. 110. 120. 130. 140. 150. 160. |
| 63 | 94.0 | 97.7 | 98.5 | 99.6 | 100.6 | 102.2 | 106.9 | 104.4 109.1 113.5 119.2 121.1 120.6 |
| 80 | 96.2 | 98.0 | 99.0 | 99.6 | 100.9 | 103.0 | 108.6 | 113.3 120.3 122.0 123.9 122.7 |
| 100 | 97.5 | 98.3 | 99.3 | 100.1 | 101.7 | 104.1 | 108.0 | 113.3 120.3 122.0 123.9 122.7 |
| 125 | 99.2 | 100.7 | 101.2 | 102.2 | 103.6 | 105.7 | 107.8 | 111.2 115.5 124.5 128.0 128.7 125.7 |
| 160 | 102.9 | 103.0 | 103.2 | 104.8 | 105.3 | 107.0 | 109.6 | 112.8 119.7 126.3 120.5 129.9 127.2 |
| 200 | 108.0 | 108.5 | 107.8 | 107.8 | 108.9 | 109.3 | 110.9 | 113.6 118.5 126.6 129.6 129.8 127.3 |
| 250 | 110.9 | 110.6 | 109.6 | 108.9 | 108.8 | 110.4 | 111.5 | 114.7 119.4 126.0 129.9 130.1 126.4 |
| 315 | 112.7 | 112.5 | 111.3 | 111.3 | 108.9 | 109.5 | 111.4 | 114.3 119.0 125.6 128.3 129.2 124.5 |
| 400 | 110.9 | 111.4 | 111.4 | 112.2 | 113.1 | 112.9 | 112.6 | 114.7 118.9 122.5 124.5 124.5 120.2 |
| 500 | 110.6 | 112.4 | 112.4 | 112.2 | 113.1 | 112.9 | 112.6 | 114.7 118.9 122.5 124.5 124.5 120.2 |
| 630 | 109.5 | 112.0 | 112.6 | 112.8 | 112.4 | 113.7 | 113.8 | 115.7 113.9 122.8 124.2 123.1 118.7 |
| 800 | 109.4 | 112.2 | 111.7 | 113.5 | 112.8 | 113.2 | 113.6 | 115.7 117.5 120.8 122.0 120.6 116.3 |
| 1000 | 108.3 | 111.6 | 111.7 | 112.7 | 113.8 | 114.6 | 114.8 | 115.2 117.4 119.3 121.2 119.6 115.9 |
| 1250 | 107.8 | 110.4 | 110.7 | 112.4 | 113.9 | 114.4 | 115.0 | 114.7 116.7 118.4 119.1 120.5 118.9 114.5 |
| 1600 | 104.3 | 107.8 | 109.0 | 110.9 | 111.7 | 112.8 | 114.0 | 112.8 114.5 116.7 118.4 118.1 117.4 113.1 |
| 2000 | 103.2 | 107.1 | 107.6 | 110.2 | 111.2 | 111.6 | 114.0 | 112.3 114.6 115.6 118.0 116.7 113.1 |
| 2500 | 101.3 | 104.7 | 105.6 | 107.5 | 110.7 | 110.0 | 112.7 | 110.5 113.6 113.8 115.6 114.0 119.5 |
| 3150 | 99.0 | 103.9 | 104.2 | 105.9 | 108.1 | 107.8 | 109.1 | 109.1 112.7 112.2 116.8 111.2 117.7 |
| 4000 | 97.3 | 102.0 | 105.1 | 106.0 | 106.3 | 106.5 | 109.3 | 107.2 110.5 113.9 116.2 114.1 117.0 |
| 5000 | 94.1 | 99.9 | 103.4 | 104.5 | 103.6 | 103.9 | 105.9 | 104.7 108.9 112.9 114.9 111.7 116.7 |
| 6300 | 93.1 | 99.1 | 104.7 | 104.0 | 102.5 | 103.4 | 105.4 | 104.3 108.8 113.3 116.1 110.5 115.4 |
| 8000 | 94.4 | 101.7 | 107.2 | 106.0 | 103.1 | 105.0 | 108.9 | 106.2 111.8 116.7 119.2 111.4 118.8 |
| 10000 | 120.9 | 122.5 | 122.8 | 123.7 | 124.1 | 124.4 | 125.7 | 126.8 130.4 135.7 138.6 135.9 |
| PNOB | 130.2 | 133.1 | 133.7 | 135.2 | 136.1 | 136.5 | 138.2 | 138.0 141.0 143.9 146.3 145.6 144.9 |

NO EGA
 RFG. NO. 0.
 RADIAL 153. FT.
 (46. M)
 VEHICLE CELL41
 CONFIG NC6C
 LJC C41 ANECH CH
 DATE 06-21-76
 RUN CONFZEROELW
 TAPE X51500
 BAR 29.3 HG
 (98975. N/M2)
 TAMB 53. DEG F
 (285. DEG K)
 TWET 50. DEG F
 (282. DEG K)
 HACT 8.39 GM/M3
 (.00039 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 DF/DM 5.33

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/50 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 16.3

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--------------------|---------------------------------|------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 63.2 | 68.3 | 70.4 | 71.9 | 73.9 | 75.6 | 78.6 | 79.6 | 82.6 | 86.8 | 91.0 | 90.7 | 86.7 |
| 63 | 65.7 | 71.1 | 70.9 | 73.7 | 76.2 | 78.0 | 80.5 | 81.9 | 84.9 | 89.6 | 93.8 | 93.4 | 88.7 |
| 80 | 67.9 | 71.3 | 73.4 | 74.7 | 76.4 | 78.7 | 80.7 | 83.7 | 87.6 | 93.6 | 97.0 | 95.3 | 89.1 |
| 100 | 69.1 | 71.5 | 73.6 | 75.2 | 77.2 | 79.7 | 81.4 | 83.9 | 88.9 | 96.1 | 98.7 | 96.5 | 89.5 |
| 125 | 70.6 | 73.8 | 75.4 | 77.2 | 79.0 | 81.2 | 83.2 | 86.2 | 90.6 | 97.6 | 99.4 | 97.7 | 91.1 |
| 160 | 74.2 | 75.9 | 77.3 | 79.6 | 80.6 | 82.4 | 84.9 | 87.6 | 92.8 | 99.2 | 100.8 | 99.8 | 92.2 |
| 200 | 79.1 | 81.3 | 81.7 | 82.5 | 84.1 | 85.5 | 86.5 | 88.3 | 92.5 | 99.4 | 100.6 | 98.3 | 91.9 |
| 250 | 81.6 | 83.2 | 83.4 | 83.7 | 85.5 | 86.5 | 88.2 | 93.1 | 98.5 | 100.7 | 98.3 | 90.5 | |
| 315 | 83.2 | 84.7 | 84.7 | 85.6 | 83.6 | 84.4 | 86.1 | 88.6 | 92.5 | 97.8 | 98.7 | 96.3 | 88.2 |
| 400 | 82.0 | 83.4 | 85.7 | 85.8 | 86.9 | 85.4 | 86.4 | 88.3 | 91.7 | 96.3 | 96.3 | 93.0 | 83.9 |
| 500 | 80.4 | 82.9 | 84.2 | 85.8 | 87.2 | 87.2 | 86.7 | 88.3 | 91.7 | 94.0 | 93.9 | 91.2 | 81.8 |
| 630 | 79.4 | 83.3 | 84.7 | 85.4 | 86.0 | 86.8 | 87.5 | 88.9 | 91.7 | 94.0 | 93.9 | 91.2 | 81.8 |
| 800 | 77.4 | 82.1 | 84.2 | 85.4 | 85.5 | 85.6 | 86.8 | 88.4 | 90.2 | 91.5 | 90.5 | 86.0 | 74.8 |
| 1000 | 76.2 | 81.4 | 82.5 | 83.3 | 85.2 | 85.8 | 86.0 | 87.6 | 83.3 | 90.0 | 88.8 | 83.5 | 72.4 |
| 1250 | 73.7 | 79.7 | 81.5 | 83.6 | 85.3 | 86.4 | 86.3 | 86.1 | 87.2 | 87.4 | 86.7 | 80.9 | 69.8 |
| 1600 | 71.3 | 76.8 | 79.1 | 82.1 | 84.1 | 84.9 | 85.3 | 84.3 | 85.3 | 85.6 | 84.0 | 77.7 | 64.8 |
| 2000 | 67.4 | 74.4 | 76.9 | 80.3 | 82.6 | 81.9 | 83.6 | 82.8 | 83.4 | 82.9 | 80.5 | 74.4 | 60.1 |
| 2500 | 62.1 | 69.6 | 73.2 | 76.7 | 78.6 | 79.8 | 80.7 | 78.6 | 78.7 | 78.4 | 75.9 | 68.8 | 52.4 |
| 3150 | 55.7 | 64.3 | 67.9 | 72.4 | 74.5 | 75.2 | 77.2 | 74.5 | 74.9 | 72.9 | 70.4 | 61.1 | 42.1 |
| 4000 | 45.7 | 55.2 | 60.0 | 64.3 | 68.8 | 68.6 | 70.8 | 67.3 | 65.1 | 64.3 | 60.0 | 47.9 | 33.1 |
| 5000 | 38.7 | 50.6 | 55.2 | 59.6 | 63.2 | 63.4 | 64.2 | 62.7 | 63.7 | 58.9 | 56.5 | 39.1 | 22.3 |
| 6300 | 25.0 | 38.8 | 45.6 | 51.4 | 54.8 | 54.6 | 56.5 | 53.5 | 52.6 | 48.1 | 41.3 | 24.1 | |
| 8000 | 2.1 | 19.7 | 30.6 | 36.3 | 39.1 | 40.2 | 42.1 | 37.5 | 35.1 | 31.5 | 21.0 | | |
| 10000 | | | 7.3 | 15.1 | 17.7 | 19.1 | 20.0 | 15.3 | 12.9 | 6.0 | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 89.9 | 92.7 | 94.0 | 95.4 | 96.1 | 96.6 | 97.6 | 99.2 | 102.5 | 107.5 | 109.0 | 106.7 | 99.9 |
| PLNS | 95.2 | 98.6 | 100.6 | 102.8 | 104.4 | 104.9 | 105.9 | 106.1 | 108.2 | 111.8 | 112.7 | 109.5 | 101.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/50 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (SP, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | | (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.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| 100 | 81.6 | 91.4 | 89.4 | 91.2 | 92.5 | 92.2 | 93.3 | 94.0 | 94.4 | 96.5 | 99.9 | 99.6 | 102.7 | 137.3 | |
| 125 | 80.8 | 84.6 | 86.9 | 89.2 | 91.0 | 92.4 | 93.0 | 93.9 | 92.1 | 91.9 | 100.6 | 102.3 | 102.6 | 137.3 | |
| 160 | 81.4 | 84.9 | 87.4 | 87.0 | 88.0 | 88.4 | 88.8 | 90.7 | 93.4 | 99.0 | 102.9 | 103.9 | 106.2 | 139.3 | |
| 200 | 84.8 | 85.3 | 88.6 | 89.5 | 89.2 | 90.5 | 91.4 | 94.1 | 97.3 | 101.4 | 105.6 | 108.8 | 109.5 | 142.6 | |
| 250 | 83.6 | 86.6 | 87.6 | 87.9 | 89.5 | 90.8 | 93.2 | 94.9 | 98.6 | 103.6 | 109.1 | 110.8 | 111.1 | 144.8 | |
| 315 | 85.2 | 89.2 | 87.7 | 90.2 | 92.1 | 93.4 | 94.6 | 97.0 | 101.7 | 107.2 | 112.0 | 114.1 | 113.4 | 147.7 | |
| 400 | 87.7 | 88.7 | 90.0 | 91.2 | 92.8 | 94.0 | 95.3 | 98.5 | 104.5 | 110.3 | 115.0 | 115.7 | 113.5 | 149.7 | |
| 500 | 89.3 | 89.3 | 90.8 | 91.8 | 93.4 | 95.5 | 97.4 | 99.8 | 106.5 | 113.6 | 116.8 | 117.0 | 114.0 | 151.5 | |
| 630 | 90.1 | 91.6 | 91.9 | 93.4 | 95.3 | 96.6 | 99.0 | 101.9 | 108.6 | 115.5 | 118.2 | 118.3 | 115.1 | 153.0 | |
| 800 | 92.9 | 93.4 | 93.4 | 95.4 | 96.3 | 97.9 | 100.0 | 103.2 | 110.7 | 117.2 | 119.9 | 119.1 | 115.9 | 154.6 | |
| 1000 | 97.2 | 98.0 | 98.5 | 99.3 | 99.4 | 99.7 | 101.4 | 104.5 | 111.0 | 118.1 | 119.8 | 119.7 | 116.2 | 154.8 | |
| 1250 | 96.3 | 99.1 | 100.3 | 99.9 | 100.4 | 102.1 | 102.4 | 105.6 | 111.3 | 118.9 | 120.6 | 121.3 | 116.3 | 155.8 | |
| 1600 | 94.6 | 96.2 | 96.4 | 98.0 | 98.8 | 101.2 | 102.5 | 105.2 | 111.7 | 117.5 | 119.2 | 119.4 | 114.4 | 154.4 | |
| 2000 | 95.9 | 96.7 | 99.0 | 99.0 | 100.2 | 103.3 | 106.0 | 111.2 | 117.0 | 118.5 | 117.4 | 112.0 | 112.0 | 152.4 | |
| 2500 | 94.5 | 96.8 | 98.3 | 98.1 | 100.2 | 102.9 | 102.9 | 106.1 | 111.8 | 116.2 | 116.9 | 115.3 | 109.8 | 152.0 | |
| 3150 | 95.5 | 97.3 | 98.6 | 99.3 | 99.9 | 100.8 | 103.2 | 106.8 | 111.8 | 116.6 | 115.6 | 113.0 | 108.3 | 153.5 | |
| 4000 | 95.0 | 97.8 | 97.6 | 98.4 | 99.5 | 100.6 | 103.2 | 106.6 | 110.4 | 115.5 | 113.6 | 111.6 | 106.5 | 150.8 | |
| 5000 | 93.9 | 97.7 | 97.5 | 99.3 | 99.1 | 100.7 | 102.6 | 106.3 | 110.0 | 113.9 | 113.0 | 110.2 | 106.5 | 149.9 | |
| 6300 | 92.7 | 96.3 | 97.4 | 98.6 | 100.2 | 101.6 | 103.7 | 105.9 | 109.6 | 112.7 | 111.4 | 109.6 | 106.6 | 148.9 | |
| 8000 | 92.1 | 94.7 | 95.5 | 98.2 | 100.0 | 100.9 | 103.8 | 105.9 | 108.7 | 112.1 | 111.0 | 108.4 | 106.2 | 148.3 | |
| 10000 | 89.5 | 95.1 | 96.0 | 97.7 | 99.8 | 100.1 | 102.8 | 104.2 | 107.8 | 111.4 | 109.8 | 108.2 | 104.9 | 148.4 | |
| 12500 | 87.5 | 93.3 | 94.4 | 96.4 | 98.2 | 99.3 | 101.7 | 102.3 | 104.9 | 108.9 | 107.8 | 106.3 | 103.8 | 146.7 | |
| 16000 | 86.1 | 92.0 | 93.2 | 96.1 | 97.4 | 98.0 | 101.4 | 101.1 | 103.7 | 107.5 | 105.8 | 105.3 | 102.7 | 146.3 | |
| 20000 | 83.0 | 88.1 | 90.3 | 93.1 | 96.1 | 95.7 | 99.1 | 97.7 | 101.6 | 104.2 | 103.0 | 101.6 | 99.2 | 144.4 | |
| 25000 | 79.4 | 85.6 | 86.8 | 89.6 | 92.7 | 92.7 | 94.0 | 94.7 | 99.6 | 100.8 | 102.1 | 96.8 | 95.1 | 143.1 | |
| 31500 | 77.1 | 83.1 | 85.9 | 88.8 | 91.2 | 90.9 | 93.1 | 92.5 | 96.4 | 99.6 | 98.8 | 97.0 | 93.4 | 143.3 | |
| 40000 | 72.2 | 78.7 | 82.7 | 84.4 | 86.7 | 86.7 | 89.2 | 88.1 | 93.0 | 97.5 | 96.0 | 93.7 | 90.0 | 143.4 | |
| 50000 | 66.9 | 72.8 | 77.2 | 78.9 | 80.9 | 81.5 | 82.5 | 81.8 | 87.0 | 92.9 | 93.0 | 87.0 | 83.5 | 142.8 | |
| 63000 | 61.8 | 67.0 | 72.1 | 73.4 | 75.8 | 76.5 | 76.3 | 76.4 | 81.4 | 88.9 | 88.2 | 80.9 | 76.8 | 144.3 | |
| 80000 | 58.8 | 62.6 | 69.0 | 68.0 | 72.9 | 73.5 | 74.4 | 70.9 | 77.0 | 86.5 | 85.5 | 76.4 | 72.0 | 150.7 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 106.0 | 108.4 | 109.3 | 110.4 | 111.5 | 112.6 | 114.7 | 117.2 | 122.2 | 127.7 | 129.1 | 128.9 | 125.3 | 165.0 | |
| PNCB | 118.7 | 121.1 | 121.8 | 122.9 | 123.7 | 124.8 | 126.9 | 130.0 | 134.9 | 139.9 | 140.3 | 139.3 | 135.4 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/5/ ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-116cm²(18in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO | NO EGA | C. | PROC. DATE - MONTH 9 DAY 30 HR. 16.3 | | | | | | | | | | | | |
|--------------------|--------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | | | | | | | | |
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 86.6 | 89.6 | 90.6 | 90.9 | 92.5 | 93.9 | 96.3 | 97.9 | 101.6 | 106.7 | 112.2 | 113.8 | 114.1 | 159.3 | |
| 63 | 88.2 | 92.2 | 93.7 | 93.3 | 95.1 | 96.5 | 97.6 | 100.3 | 104.6 | 109.6 | 115.0 | 116.5 | 117.1 | 157.3 | |
| 83 | 90.7 | 91.8 | 93.0 | 94.3 | 95.9 | 97.0 | 98.4 | 101.6 | 107.5 | 113.3 | 118.0 | 118.7 | 116.5 | 164.2 | |
| 103 | 92.3 | 92.3 | 93.0 | 94.9 | 96.5 | 98.6 | 100.5 | 102.9 | 109.6 | 116.7 | 119.9 | 120.1 | 117.1 | 156.7 | |
| 125 | 93.2 | 94.7 | 95.0 | 96.5 | 98.3 | 99.7 | 102.1 | 105.0 | 111.7 | 118.5 | 121.2 | 121.4 | 118.2 | 167.5 | |
| 163 | 95.9 | 96.5 | 96.5 | 98.5 | 99.3 | 101.0 | 103.1 | 106.3 | 113.7 | 120.3 | 123.0 | 122.2 | 119.7 | 168.9 | |
| 203 | 100.3 | 101.0 | 101.6 | 102.3 | 102.4 | 102.8 | 104.4 | 107.6 | 114.1 | 121.1 | 122.8 | 122.8 | 119.3 | 169.4 | |
| 253 | 99.4 | 102.1 | 103.4 | 102.9 | 103.5 | 105.1 | 105.5 | 108.7 | 114.4 | 122.0 | 123.7 | 124.3 | 119.4 | 169.4 | |
| 315 | 97.7 | 99.2 | 99.5 | 101.0 | 101.9 | 104.2 | 105.6 | 108.3 | 114.8 | 120.6 | 122.3 | 122.5 | 117.5 | 173.4 | |
| 403 | 99.7 | 99.8 | 102.1 | 102.1 | 102.4 | 103.3 | 106.4 | 109.1 | 114.3 | 120.1 | 121.6 | 120.5 | 115.0 | 168.9 | |
| 503 | 97.6 | 99.9 | 101.4 | 102.2 | 103.3 | 104.4 | 106.0 | 109.2 | 114.9 | 119.3 | 120.0 | 118.4 | 112.9 | 167.0 | |
| 633 | 98.6 | 100.4 | 101.7 | 102.5 | 103.1 | 103.9 | 106.3 | 110.0 | 116.9 | 119.8 | 118.7 | 116.1 | 111.4 | 165.5 | |
| 803 | 98.2 | 101.0 | 100.8 | 101.6 | 102.7 | 103.8 | 106.4 | 109.8 | 113.5 | 118.6 | 116.8 | 114.7 | 109.3 | 165.3 | |
| 1003 | 97.1 | 100.9 | 100.7 | 102.5 | 102.3 | 103.9 | 105.8 | 109.5 | 113.2 | 117.1 | 116.2 | 113.4 | 109.7 | 164.1 | |
| 1253 | 96.0 | 100.7 | 102.5 | 102.3 | 103.5 | 104.9 | 107.0 | 109.2 | 112.9 | 116.0 | 114.7 | 112.8 | 109.9 | 163.8 | |
| 1603 | 95.5 | 98.1 | 98.9 | 101.7 | 103.5 | 104.4 | 107.2 | 109.9 | 112.2 | 115.6 | 114.5 | 111.9 | 109.5 | 163.4 | |
| 2003 | 93.2 | 98.8 | 99.7 | 101.4 | 103.5 | 103.8 | 106.5 | 107.9 | 111.4 | 115.1 | 113.5 | 111.8 | 108.6 | 162.9 | |
| 2503 | 91.5 | 97.3 | 98.4 | 100.4 | 102.2 | 103.3 | 105.7 | 106.3 | 109.9 | 112.9 | 111.8 | 110.1 | 107.8 | 161.2 | |
| 3153 | 90.7 | 96.5 | 97.8 | 100.7 | 101.9 | 102.5 | 105.9 | 105.7 | 108.3 | 112.1 | 110.4 | 100.9 | 107.3 | 163.8 | |
| 4003 | 88.2 | 93.4 | 95.6 | 98.4 | 101.4 | 101.0 | 104.4 | 103.0 | 105.8 | 109.4 | 108.3 | 106.9 | 104.5 | 159.3 | |
| 5003 | 84.0 | 92.1 | 93.4 | 96.1 | 99.3 | 99.3 | 100.6 | 101.2 | 105.1 | 107.4 | 108.7 | 103.4 | 101.5 | 157.5 | |
| 6303 | 85.3 | 93.2 | 94.0 | 96.9 | 99.4 | 99.1 | 101.3 | 100.7 | 104.5 | 107.8 | 107.0 | 105.2 | 101.6 | 157.8 | |
| 8003 | 82.7 | 89.2 | 93.2 | 94.9 | 97.2 | 97.2 | 99.7 | 98.6 | 103.5 | 108.0 | 106.5 | 104.2 | 100.4 | 157.9 | |
| 10003 | 80.5 | 86.3 | 90.7 | 92.4 | 94.5 | 95.0 | 96.1 | 95.3 | 101.5 | 106.5 | 106.5 | 100.5 | 97.3 | 157.3 | |
| 12503 | 79.8 | 85.0 | 90.1 | 91.4 | 93.8 | 94.0 | 94.3 | 94.4 | 99.4 | 106.9 | 106.2 | 98.9 | 94.8 | 158.8 | |
| 16003 | 83.1 | 87.0 | 93.3 | 92.4 | 97.2 | 97.8 | 98.7 | 95.3 | 101.4 | 110.8 | 109.8 | 100.7 | 96.3 | 165.3 | |
| OVERALL CALCULATED | | | 109.1 | 111.7 | 112.7 | 113.9 | 115.1 | 116.1 | 118.3 | 120.5 | 125.5 | 131.0 | 132.3 | 131.9 | 128.2 |
| PNDB | | | 118.1 | 122.3 | 123.6 | 125.6 | 127.1 | 127.8 | 130.5 | 131.4 | 135.4 | 139.7 | 139.7 | 138.9 | 135.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/5/ ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| (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) | (2.97) | (3.14) |
| 50 | 58.4 | 63.0 | 65.1 | 66.1 | 68.1 | 69.6 | 71.9 | 73.1 | 75.1 | 76.0 | 78.4 | 80.2 | 82.5 |
| 63 | 62.4 | 65.6 | 68.4 | 70.7 | 72.2 | 73.2 | 75.2 | 77.2 | 79.2 | 80.6 | 82.8 | 84.2 | 86.7 |
| 80 | 63.9 | 65.5 | 68.1 | 69.9 | 71.9 | 74.2 | 75.9 | 77.9 | 80.6 | 81.9 | 84.9 | 86.7 | 89.3 |
| 100 | 64.6 | 67.8 | 69.1 | 71.4 | 73.7 | 75.2 | 77.5 | 79.9 | 83.9 | 85.9 | 89.3 | 91.5 | 93.6 |
| 125 | 67.2 | 69.4 | 70.5 | 73.3 | 74.5 | 76.4 | 78.4 | 81.1 | 87.8 | 93.2 | 94.3 | 91.3 | 84.2 |
| 160 | 71.3 | 73.8 | 75.5 | 77.0 | 77.6 | 78.1 | 79.6 | 82.3 | 83.0 | 83.9 | 93.9 | 91.3 | 83.9 |
| 200 | 71.5 | 73.0 | 74.4 | 75.3 | 76.6 | 79.1 | 80.4 | 82.6 | 83.2 | 88.2 | 92.8 | 92.7 | 90.2 |
| 250 | 71.7 | 73.2 | 74.2 | 75.8 | 76.9 | 77.9 | 80.9 | 83.1 | 87.5 | 92.0 | 91.6 | 87.7 | 77.7 |
| 315 | 71.4 | 74.2 | 75.8 | 77.4 | 78.7 | 80.2 | 82.8 | 87.7 | 90.7 | 89.4 | 84.9 | 74.5 | 71.7 |
| 400 | 71.3 | 74.0 | 75.6 | 76.8 | 77.8 | 80.0 | 83.1 | 87.5 | 90.7 | 87.5 | 81.8 | 71.7 | 67.8 |
| 500 | 71.1 | 72.4 | 74.1 | 75.8 | 77.1 | 79.5 | 82.4 | 85.2 | 88.8 | 84.7 | 79.2 | 67.8 | 66.2 |
| 630 | 70.1 | 71.5 | 74.3 | 74.7 | 76.5 | 78.2 | 81.3 | 84.0 | 86.3 | 83.1 | 76.5 | 66.2 | 63.8 |
| 800 | 67.7 | 70.5 | 72.9 | 75.1 | 76.6 | 78.6 | 80.1 | 82.7 | 84.1 | 80.2 | 74.1 | 63.8 | 59.8 |
| 1000 | 64.6 | 67.3 | 71.3 | 73.8 | 74.9 | 77.6 | 78.6 | 81.6 | 82.0 | 78.0 | 73.6 | 59.8 | 54.3 |
| 1250 | 63.4 | 66.4 | 69.5 | 72.3 | 72.9 | 75.3 | 76.0 | 78.1 | 79.7 | 74.7 | 67.6 | 54.3 | 47.1 |
| 1600 | 59.0 | 62.7 | 66.2 | 68.9 | 70.3 | 72.4 | 72.1 | 73.2 | 74.7 | 69.6 | 61.5 | 47.1 | 36.3 |
| 2000 | 53.8 | 58.1 | 62.9 | 65.2 | 66.1 | 69.2 | 67.9 | 69.6 | 69.3 | 62.9 | 54.3 | 36.3 | 18.0 |
| 2500 | 43.9 | 50.0 | 55.2 | 59.5 | 59.5 | 62.5 | 59.8 | 61.2 | 60.0 | 52.7 | 40.9 | 18.0 | 6.2 |
| 3150 | 38.8 | 44.3 | 49.8 | 54.4 | 54.9 | 55.7 | 54.9 | 57.1 | 54.0 | 48.4 | 31.3 | 6.2 | |
| 4000 | 26.4 | 35.0 | 41.3 | 45.7 | 46.0 | 47.6 | 45.1 | 45.5 | 43.0 | 32.9 | 15.2 | | |
| 5000 | 11.2 | 18.7 | 25.2 | 30.2 | 30.9 | 32.5 | 28.9 | 29.0 | 25.6 | 11.4 | | | |
| 6300 | 6.8 | 10.3 | 13.0 | 16.2 | 16.5 | 17.4 | 14.5 | 14.5 | 11.4 | | | | |
| 8000 | 3.0 | 4.5 | 5.9 | 7.5 | 7.5 | 7.9 | 6.5 | 6.5 | 5.0 | | | | |
| 10000 | 1.5 | 2.2 | 2.9 | 3.7 | 3.7 | 3.9 | 3.2 | 3.2 | 2.5 | | | | |
| 12500 | 0.8 | 1.2 | 1.6 | 2.0 | 2.0 | 2.1 | 1.7 | 1.7 | 1.3 | | | | |
| 16000 | 0.4 | 0.6 | 0.8 | 1.0 | 1.0 | 1.1 | 0.8 | 0.8 | 0.6 | | | | |
| OVERALL CALCULATED | 78.6 | 82.3 | 84.5 | 86.3 | 87.6 | 89.0 | 90.8 | 93.2 | 97.9 | 102.6 | 100.0 | 92.5 | |
| PHD3 | 83.0 | 87.8 | 90.5 | 92.9 | 95.1 | 96.2 | 98.4 | 99.9 | 103.5 | 107.4 | 106.4 | 103.1 | 91.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5/5/ ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE -- MONTH 8 DAY 30 HR. 15.6
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PML
 (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.)

| RDG. NO. | NO EGA | 76.4 | 86.2 | 84.4 | 86.0 | 86.5 | 87.2 | 87.5 | 88.2 | 88.9 | 91.0 | 94.9 | 94.1 | 96.7 |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 76.4 | 86.2 | 84.4 | 86.0 | 86.5 | 87.2 | 87.5 | 88.2 | 88.9 | 91.0 | 94.9 | 94.1 | 96.7 | 131.8 |
| 125 | 75.8 | 80.1 | 81.9 | 84.2 | 85.7 | 86.9 | 87.5 | 88.4 | 87.4 | 86.9 | 94.6 | 96.3 | 96.6 | 131.5 |
| 160 | 76.6 | 79.9 | 81.9 | 82.2 | 83.3 | 83.4 | 83.8 | 85.5 | 88.2 | 93.7 | 96.7 | 98.4 | 99.9 | 133.3 |
| 200 | 80.5 | 80.3 | 81.5 | 83.8 | 84.7 | 85.0 | 86.2 | 88.8 | 92.3 | 95.9 | 99.8 | 103.5 | 104.0 | 137.2 |
| 250 | 79.3 | 82.6 | 83.1 | 83.6 | 85.2 | 86.6 | 88.5 | 90.1 | 93.3 | 98.1 | 103.4 | 105.5 | 105.3 | 139.3 |
| 315 | 80.9 | 84.9 | 83.4 | 85.7 | 88.1 | 88.9 | 90.1 | 91.5 | 96.2 | 101.2 | 106.2 | 108.6 | 108.4 | 142.3 |
| 400 | 83.4 | 84.7 | 86.5 | 87.0 | 88.1 | 89.7 | 90.6 | 93.5 | 98.2 | 104.8 | 109.2 | 110.9 | 109.2 | 144.6 |
| 500 | 84.3 | 85.3 | 86.0 | 87.3 | 88.4 | 90.5 | 92.2 | 94.2 | 96.2 | 101.4 | 108.5 | 113.2 | 110.5 | 146.8 |
| 630 | 85.4 | 86.9 | 87.1 | 88.9 | 90.5 | 91.4 | 94.0 | 94.0 | 98.2 | 101.4 | 108.5 | 114.2 | 111.6 | 147.8 |
| 800 | 87.6 | 88.1 | 88.7 | 90.4 | 91.8 | 92.9 | 95.0 | 98.2 | 102.7 | 109.7 | 114.2 | 114.9 | 112.9 | 149.0 |
| 1000 | 91.7 | 92.7 | 92.5 | 93.0 | 93.9 | 94.2 | 96.1 | 98.8 | 103.0 | 108.8 | 113.5 | 114.2 | 113.2 | 148.5 |
| 1250 | 89.5 | 91.8 | 92.6 | 92.9 | 93.7 | 95.3 | 96.7 | 99.9 | 103.6 | 108.4 | 112.6 | 114.8 | 112.6 | 148.6 |
| 1600 | 88.9 | 90.2 | 89.9 | 92.0 | 93.3 | 95.2 | 96.5 | 99.2 | 103.9 | 107.7 | 110.7 | 112.6 | 110.7 | 146.8 |
| 2000 | 89.7 | 91.0 | 92.5 | 92.5 | 93.8 | 95.2 | 97.3 | 100.0 | 103.2 | 106.5 | 109.7 | 111.7 | 109.0 | 145.9 |
| 2500 | 88.8 | 90.3 | 91.3 | 92.9 | 94.4 | 95.1 | 96.9 | 99.9 | 103.1 | 105.7 | 109.6 | 111.0 | 107.1 | 145.4 |
| 3150 | 88.5 | 89.8 | 91.6 | 93.3 | 94.4 | 95.5 | 97.2 | 100.1 | 103.1 | 105.6 | 109.1 | 108.8 | 105.8 | 144.6 |
| 4000 | 87.5 | 88.6 | 91.1 | 92.6 | 94.0 | 94.3 | 96.7 | 99.6 | 102.1 | 105.0 | 107.6 | 106.8 | 103.3 | 143.4 |
| 5000 | 86.0 | 87.8 | 89.9 | 92.1 | 93.7 | 95.1 | 97.5 | 99.3 | 101.5 | 103.4 | 106.0 | 105.2 | 103.7 | 142.4 |
| 6300 | 86.0 | 87.8 | 89.9 | 92.1 | 93.7 | 95.1 | 97.5 | 99.3 | 101.5 | 103.4 | 106.0 | 105.2 | 103.7 | 141.8 |
| 8000 | 85.1 | 86.7 | 88.5 | 91.5 | 93.5 | 94.4 | 96.5 | 98.5 | 100.2 | 101.1 | 102.5 | 104.7 | 103.9 | 141.3 |
| 10000 | 83.3 | 86.4 | 87.8 | 90.5 | 92.8 | 93.4 | 95.8 | 97.5 | 99.3 | 99.9 | 100.6 | 103.9 | 103.4 | 140.6 |
| 12500 | 80.2 | 83.8 | 85.9 | 88.9 | 90.7 | 92.0 | 94.7 | 95.3 | 97.2 | 97.9 | 98.8 | 102.3 | 102.0 | 139.4 |
| 16000 | 78.1 | 82.2 | 84.7 | 87.8 | 89.6 | 90.2 | 93.9 | 93.4 | 95.7 | 96.2 | 97.3 | 101.3 | 101.0 | 138.9 |
| 20000 | 75.0 | 79.1 | 81.5 | 84.6 | 86.1 | 87.9 | 91.6 | 90.4 | 93.1 | 92.9 | 94.3 | 96.9 | 96.2 | 136.5 |
| 25000 | 71.7 | 77.1 | 78.6 | 81.3 | 84.0 | 84.7 | 86.2 | 87.2 | 89.1 | 89.6 | 92.4 | 92.1 | 93.1 | 134.6 |
| 31500 | 68.4 | 75.3 | 78.2 | 80.3 | 82.2 | 81.9 | 84.9 | 84.9 | 86.9 | 86.9 | 89.3 | 92.1 | 90.5 | 134.6 |
| 40000 | 63.7 | 71.7 | 75.5 | 76.9 | 77.9 | 78.2 | 80.9 | 79.9 | 82.8 | 83.0 | 85.8 | 87.0 | 86.7 | 133.7 |
| 50000 | 58.2 | 67.8 | 71.5 | 71.7 | 71.2 | 72.0 | 73.6 | 73.1 | 76.3 | 76.7 | 81.3 | 80.1 | 80.0 | 131.9 |
| 63000 | 52.6 | 63.0 | 68.1 | 67.0 | 66.4 | 66.5 | 66.9 | 67.0 | 69.7 | 71.7 | 75.2 | 73.4 | 73.8 | 132.4 |
| 80000 | 48.9 | 61.0 | 67.2 | 63.9 | 63.3 | 63.4 | 64.1 | 60.1 | 63.7 | 66.9 | 69.2 | 67.8 | 69.2 | 137.2 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | |
| PRDB | 99.8 | 101.5 | 102.6 | 104.1 | 105.5 | 106.6 | 108.6 | 110.8 | 114.2 | 118.5 | 122.4 | 123.7 | 121.8 | 158.2 |
| | 112.3 | 113.9 | 115.2 | 116.9 | 118.1 | 119.2 | 121.0 | 123.6 | 126.7 | 130.0 | 133.4 | 134.5 | 132.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5/52** ACOUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-116cm²(18in²)**

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | PWL | |
|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | | 160. |
| 50 | 82.4 | 85.6 | 86.1 | 86.7 | 88.3 | 89.6 | 91.5 | 93.2 | 95.4 | 101.2 | 106.4 | 108.6 | 108.4 | 153.8 |
| 80 | 84.0 | 88.0 | 86.5 | 88.8 | 91.1 | 92.0 | 93.1 | 94.5 | 99.2 | 104.3 | 109.3 | 111.7 | 111.5 | 156.8 |
| 100 | 86.5 | 87.8 | 89.5 | 90.1 | 91.2 | 92.8 | 93.7 | 96.6 | 101.3 | 107.8 | 112.3 | 114.0 | 112.3 | 159.1 |
| 125 | 88.4 | 89.9 | 90.2 | 92.0 | 93.6 | 94.4 | 97.1 | 99.2 | 104.5 | 111.5 | 116.0 | 117.2 | 114.7 | 161.5 |
| 160 | 90.7 | 91.2 | 91.7 | 93.5 | 94.9 | 96.0 | 98.1 | 101.3 | 105.7 | 112.8 | 117.2 | 117.9 | 116.0 | 162.6 |
| 200 | 94.8 | 95.8 | 95.6 | 96.1 | 96.9 | 97.3 | 99.2 | 101.8 | 105.1 | 111.9 | 116.6 | 117.3 | 116.3 | 163.5 |
| 250 | 92.6 | 94.9 | 95.6 | 95.9 | 96.8 | 98.4 | 99.8 | 102.9 | 105.6 | 111.5 | 115.7 | 117.8 | 115.5 | 162.9 |
| 315 | 92.0 | 93.2 | 93.0 | 95.0 | 96.4 | 98.2 | 99.6 | 102.3 | 107.0 | 110.8 | 113.8 | 115.7 | 113.7 | 161.3 |
| 400 | 92.8 | 94.0 | 94.6 | 95.6 | 96.9 | 98.3 | 100.4 | 103.1 | 105.3 | 109.6 | 112.8 | 114.8 | 112.0 | 160.4 |
| 500 | 91.9 | 93.4 | 94.4 | 96.0 | 97.6 | 98.2 | 100.1 | 103.0 | 105.2 | 108.8 | 112.7 | 114.1 | 110.2 | 159.9 |
| 630 | 91.6 | 92.9 | 94.7 | 96.5 | 97.6 | 98.7 | 100.3 | 103.2 | 105.2 | 108.8 | 112.2 | 111.9 | 108.9 | 159.2 |
| 800 | 90.7 | 91.8 | 94.3 | 95.8 | 97.2 | 97.5 | 99.9 | 102.8 | 105.3 | 108.1 | 110.8 | 110.0 | 106.5 | 158.3 |
| 1000 | 90.1 | 91.9 | 93.7 | 95.7 | 96.3 | 97.9 | 99.8 | 102.5 | 104.7 | 106.6 | 109.2 | 108.4 | 106.9 | 156.9 |
| 1250 | 89.3 | 91.1 | 93.2 | 95.4 | 97.0 | 98.4 | 100.7 | 101.9 | 104.4 | 105.5 | 107.0 | 108.1 | 107.6 | 156.3 |
| 1600 | 88.5 | 90.1 | 91.9 | 94.9 | 97.0 | 97.9 | 100.0 | 101.9 | 103.7 | 104.6 | 106.0 | 108.1 | 107.4 | 155.9 |
| 2000 | 86.9 | 90.1 | 91.4 | 94.2 | 96.5 | 97.1 | 99.5 | 101.2 | 102.9 | 103.6 | 104.3 | 107.5 | 107.1 | 155.2 |
| 2500 | 84.2 | 87.8 | 89.9 | 92.9 | 94.7 | 96.0 | 98.7 | 99.3 | 101.2 | 101.9 | 102.8 | 106.3 | 106.0 | 153.9 |
| 3150 | 82.7 | 86.8 | 89.3 | 92.4 | 94.2 | 94.8 | 98.4 | 98.0 | 100.3 | 100.8 | 101.9 | 105.9 | 105.5 | 153.6 |
| 4000 | 80.2 | 84.4 | 86.8 | 89.9 | 93.4 | 93.2 | 96.9 | 95.7 | 98.3 | 98.2 | 99.6 | 102.1 | 101.5 | 151.1 |
| 5000 | 78.2 | 83.6 | 85.1 | 87.9 | 90.6 | 91.3 | 92.8 | 93.7 | 96.6 | 96.1 | 98.9 | 98.6 | 99.5 | 149.1 |
| 6300 | 76.5 | 83.5 | 86.3 | 88.4 | 90.4 | 90.1 | 93.0 | 92.7 | 95.1 | 95.0 | 97.5 | 100.2 | 98.5 | 149.1 |
| 8000 | 74.2 | 82.2 | 86.0 | 87.4 | 88.4 | 88.7 | 91.4 | 90.4 | 93.3 | 93.5 | 96.3 | 97.5 | 97.2 | 148.3 |
| 10000 | 71.8 | 81.4 | 85.0 | 85.2 | 84.7 | 85.6 | 87.1 | 86.6 | 89.8 | 90.2 | 94.8 | 93.6 | 93.6 | 146.9 |
| 12500 | 70.6 | 81.0 | 86.2 | 85.0 | 84.6 | 84.5 | 84.9 | 85.0 | 87.7 | 89.7 | 93.2 | 91.4 | 91.8 | 145.9 |
| 16000 | 73.3 | 85.4 | 91.5 | 88.3 | 87.6 | 87.7 | 88.4 | 84.4 | 88.1 | 91.3 | 93.5 | 92.1 | 93.5 | 151.8 |
| PNDR | 111.3 | 114.2 | 116.0 | 118.3 | 120.0 | 120.9 | 123.5 | 124.5 | 127.2 | 129.2 | 131.9 | 133.8 | 132.6 | 177.7 |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **5** TEST POINT **5/52** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-.33m²(513in²)** SIZE

| NO EGA | SIDELINE 2400. FT. | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | AC. | C. | D. | | | | | | | | |
|--------------------|--------------------|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | | | | | | | | | | | |
| 53 | | | (0.75) | (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.) |
| 63 | | | 54.2 | 59.0 | 60.6 | 61.9 | 63.9 | 65.4 | 67.1 | 68.4 | 73.9 | 74.6 | 78.2 | 78.2 | 74.5 | | | | |
| 83 | | | 58.2 | 61.0 | 63.9 | 65.2 | 66.7 | 68.4 | 69.2 | 71.7 | 75.6 | 81.1 | 84.0 | 83.3 | 78.1 | | | | |
| 103 | | | 58.9 | 61.5 | 63.4 | 65.4 | 66.9 | 69.2 | 70.7 | 72.7 | 77.6 | 84.3 | 85.9 | 85.5 | 79.2 | | | | |
| 125 | | | 59.9 | 63.0 | 64.4 | 66.9 | 69.0 | 70.0 | 72.5 | 74.2 | 78.6 | 84.6 | 87.4 | 86.2 | 80.1 | | | | |
| 163 | | | 61.9 | 64.1 | 65.8 | 68.3 | 70.1 | 71.4 | 73.4 | 76.1 | 79.8 | 85.7 | 88.5 | 85.8 | 81.2 | | | | |
| 203 | | | 65.8 | 68.5 | 69.5 | 70.8 | 72.1 | 72.6 | 74.3 | 76.5 | 80.3 | 84.6 | 87.6 | 85.8 | 80.9 | | | | |
| 250 | | | 63.4 | 67.4 | 69.4 | 70.4 | 71.7 | 73.5 | 74.7 | 77.4 | 83.4 | 84.0 | 86.5 | 86.1 | 79.8 | | | | |
| 315 | | | 62.4 | 65.5 | 66.5 | 69.3 | 71.1 | 73.1 | 74.4 | 76.6 | 83.5 | 83.1 | 84.2 | 83.5 | 77.2 | | | | |
| 403 | | | 62.8 | 65.9 | 68.7 | 69.6 | 71.4 | 72.9 | 74.9 | 77.1 | 79.5 | 81.5 | 82.8 | 82.0 | 74.7 | | | | |
| 503 | | | 61.4 | 64.9 | 67.2 | 69.6 | 71.7 | 72.5 | 74.2 | 76.6 | 79.0 | 80.2 | 82.2 | 80.7 | 71.8 | | | | |
| 630 | | | 60.4 | 63.8 | 67.0 | 69.6 | 71.3 | 72.5 | 74.0 | 76.4 | 78.5 | 79.7 | 81.0 | 77.5 | 69.2 | | | | |
| 803 | | | 58.6 | 61.9 | 65.9 | 68.4 | 70.3 | 70.8 | 73.0 | 75.4 | 75.9 | 78.3 | 78.7 | 74.5 | 65.1 | | | | |
| 1003 | | | 56.9 | 61.1 | 64.5 | 67.6 | 68.7 | 70.5 | 72.2 | 74.3 | 75.5 | 75.8 | 76.1 | 71.5 | 63.4 | | | | |
| 1253 | | | 54.7 | 59.2 | 63.0 | 66.4 | 68.6 | 70.1 | 72.3 | 72.9 | 74.2 | 73.6 | 72.4 | 69.4 | 61.5 | | | | |
| 1603 | | | 52.7 | 56.6 | 60.3 | 64.6 | 67.3 | 68.4 | 70.3 | 71.6 | 72.1 | 71.0 | 69.5 | 66.9 | 57.5 | | | | |
| 2003 | | | 48.1 | 54.6 | 58.1 | 62.2 | 65.3 | 66.2 | 68.3 | 69.2 | 69.6 | 68.2 | 65.5 | 63.4 | 52.8 | | | | |
| 2503 | | | 42.1 | 49.5 | 54.2 | 58.7 | 61.4 | 63.0 | 65.4 | 65.1 | 65.4 | 63.7 | 60.6 | 57.8 | 45.4 | | | | |
| 3153 | | | 35.2 | 44.1 | 49.6 | 54.6 | 57.5 | 58.4 | 61.7 | 60.2 | 60.2 | 58.1 | 54.4 | 50.3 | 34.5 | | | | |
| 4003 | | | 24.6 | 34.9 | 41.2 | 46.7 | 51.5 | 51.8 | 55.0 | 52.5 | 52.8 | 48.7 | 44.0 | 36.1 | 15.0 | | | | |
| 5003 | | | 17.9 | 30.3 | 36.1 | 41.5 | 45.7 | 46.9 | 47.9 | 47.4 | 47.6 | 42.8 | 38.6 | 26.5 | 4.2 | | | | |
| 6303 | | | 7.5 | 18.7 | 27.2 | 32.9 | 36.7 | 37.0 | 39.4 | 37.1 | 36.0 | 30.2 | 23.4 | 17.3 | | | | | |
| 8003 | | | | | 11.5 | 17.7 | 21.3 | 22.4 | 24.3 | 20.7 | 18.7 | 11.2 | | | | | | | |
| 10003 | | | | | | | | 0.8 | | | | | | | | | | | |
| 12503 | | | | | | | | | | | | | | | | | | | |
| 16003 | | | | | | | | | | | | | | | | | | | |
| PNDB | | | 72.7 | 76.0 | 78.1 | 80.2 | 82.3 | 83.3 | 85.0 | 87.1 | 93.3 | 93.8 | 96.0 | 94.9 | 89.3 | | | | |
| OVERALL CALCULATED | | | 76.5 | 80.6 | 83.5 | 86.2 | 88.6 | 89.8 | 91.8 | 93.2 | 95.3 | 97.4 | 99.0 | 97.5 | 90.5 | | | | |

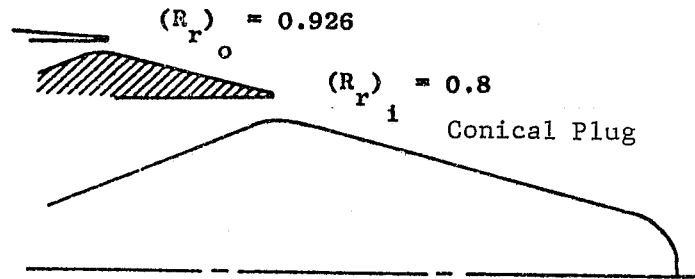
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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 5 TEST POINT 5152 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

6.6 Acoustic Data

• Coannular Configuration No. 6



$$A^0 = 8.013 \text{ in.}^2$$

$$A_T = A^0 + A^1 = 19.363 \text{ in.}^2$$

| FREQ. | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | | | | |
|-------|---|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. |
| 50 | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) |
| 63 | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) |
| 80 | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) |
| 100 | 72.9 | 81.9 | 89.7 | 91.0 | 82.3 | 82.4 |
| 125 | 72.3 | 76.6 | 83.4 | 80.2 | 81.7 | 82.9 |
| 160 | 72.6 | 75.4 | 83.7 | 78.7 | 79.3 | 79.7 |
| 200 | 74.8 | 75.3 | 87.3 | 79.3 | 80.8 | 82.2 |
| 250 | 74.3 | 77.8 | 89.3 | 78.6 | 80.0 | 81.8 |
| 315 | 75.9 | 80.2 | 88.7 | 82.0 | 83.6 | 84.4 |
| 400 | 77.9 | 80.0 | 92.2 | 82.0 | 82.8 | 84.5 |
| 500 | 78.3 | 80.0 | 91.5 | 82.1 | 83.9 | 85.8 |
| 630 | 79.6 | 81.4 | 92.1 | 83.7 | 85.5 | 86.6 |
| 800 | 80.9 | 82.7 | 93.7 | 84.9 | 86.3 | 87.7 |
| 1000 | 83.7 | 85.0 | 96.0 | 86.8 | 87.4 | 88.7 |
| 1250 | 82.5 | 84.3 | 96.1 | 86.4 | 87.7 | 89.3 |
| 1600 | 82.9 | 84.9 | 95.4 | 87.2 | 88.3 | 89.7 |
| 2000 | 82.9 | 84.7 | 97.0 | 87.0 | 88.3 | 89.0 |
| 2500 | 83.3 | 85.3 | 96.8 | 87.4 | 88.9 | 89.8 |
| 3150 | 83.5 | 85.0 | 97.5 | 87.1 | 89.4 | 89.8 |
| 4000 | 82.5 | 84.6 | 97.6 | 87.6 | 89.2 | 90.3 |
| 5000 | 82.4 | 84.4 | 96.5 | 87.5 | 88.8 | 90.7 |
| 6300 | 81.0 | 83.3 | 95.6 | 87.1 | 88.7 | 90.0 |
| 8000 | 79.8 | 82.1 | 93.9 | 85.9 | 88.0 | 89.6 |
| 10000 | 77.7 | 82.3 | 93.9 | 85.1 | 87.4 | 87.8 |
| 12500 | 75.8 | 80.1 | 92.2 | 84.0 | 86.3 | 86.9 |
| 16000 | 74.2 | 78.5 | 90.7 | 83.1 | 85.6 | 86.2 |
| 20000 | 72.0 | 75.3 | 88.2 | 80.3 | 83.8 | 83.6 |
| 25000 | 69.3 | 73.4 | 85.3 | 77.9 | 80.3 | 80.6 |
| 31500 | 66.9 | 72.1 | 85.0 | 77.2 | 80.0 | 78.9 |
| 40000 | 63.9 | 69.8 | 84.5 | 76.2 | 77.8 | 78.0 |
| 50000 | 62.5 | 69.0 | 84.3 | 75.8 | 75.9 | 77.0 |
| 63000 | 54.2 | 59.5 | 75.2 | 65.6 | 64.9 | 66.0 |
| 80000 | 47.7 | 51.6 | 68.1 | 56.2 | 55.3 | 56.7 |

OVERALL MEASURED
 OVERALL CALCULATED
 PNDB

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 640 ACUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-12.5cm²(.194in²)

450 INTENTIONAL BLANK

| NO EGA | PROC. DATE - MONTH 8 DAY 26 HR. 22.1 | | | | | | | | | | | | | |
|--------------------|--------------------------------------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|
| | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | |
| NO. FT. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PAL |
| 50 | 77.1 | 80.6 | 82.1 | 81.4 | 82.7 | 84.6 | 87.5 | 89.1 | 90.3 | 94.9 | 101.1 | 103.1 | 104.8 | 149.0 |
| 63 | 78.7 | 82.9 | 84.7 | 86.3 | 87.2 | 88.1 | 90.0 | 92.2 | 96.8 | 102.2 | 105.9 | 107.2 | 151.1 | 152.7 |
| 80 | 80.7 | 82.7 | 85.0 | 84.8 | 85.6 | 87.2 | 88.4 | 91.3 | 93.5 | 99.0 | 104.5 | 107.4 | 108.2 | 153.9 |
| 100 | 81.0 | 82.8 | 84.5 | 84.8 | 86.7 | 88.5 | 89.4 | 90.8 | 93.4 | 96.4 | 100.7 | 106.4 | 108.9 | 154.4 |
| 125 | 82.4 | 84.1 | 84.9 | 86.4 | 88.3 | 89.4 | 90.4 | 92.1 | 94.7 | 97.4 | 101.7 | 106.7 | 108.9 | 154.4 |
| 160 | 83.6 | 85.4 | 86.4 | 87.7 | 89.1 | 90.4 | 92.1 | 93.2 | 95.6 | 98.3 | 101.6 | 105.5 | 106.6 | 153.5 |
| 200 | 86.5 | 87.7 | 88.8 | 89.5 | 90.1 | 91.5 | 92.6 | 93.2 | 95.5 | 98.5 | 102.0 | 105.9 | 106.6 | 152.3 |
| 250 | 85.7 | 87.7 | 88.2 | 89.0 | 91.1 | 92.4 | 93.1 | 95.5 | 98.5 | 102.0 | 102.7 | 103.2 | 103.2 | 151.6 |
| 315 | 85.7 | 87.5 | 89.8 | 89.8 | 91.1 | 91.7 | 93.6 | 96.3 | 98.0 | 100.8 | 101.3 | 101.0 | 99.7 | 150.7 |
| 400 | 86.1 | 88.1 | 89.6 | 90.2 | 91.7 | 92.6 | 93.5 | 96.2 | 98.9 | 100.2 | 99.4 | 98.8 | 97.1 | 150.1 |
| 500 | 86.3 | 87.9 | 100.4 | 90.9 | 92.3 | 92.6 | 94.0 | 96.7 | 98.6 | 100.7 | 99.2 | 97.3 | 95.4 | 150.3 |
| 630 | 85.4 | 87.4 | 100.5 | 90.5 | 92.1 | 93.2 | 94.1 | 96.7 | 98.2 | 99.6 | 98.3 | 96.2 | 93.4 | 149.9 |
| 800 | 85.3 | 87.3 | 99.4 | 90.4 | 91.7 | 93.6 | 94.7 | 96.9 | 97.9 | 97.7 | 97.4 | 95.8 | 94.8 | 149.4 |
| 1000 | 84.0 | 86.3 | 98.6 | 90.1 | 91.7 | 93.0 | 95.7 | 97.3 | 98.1 | 97.4 | 96.6 | 97.5 | 96.8 | 149.5 |
| 1250 | 82.9 | 85.2 | 97.1 | 89.1 | 91.1 | 92.7 | 94.6 | 96.6 | 97.8 | 97.4 | 95.9 | 96.7 | 96.5 | 148.9 |
| 1600 | 81.1 | 85.7 | 97.3 | 88.5 | 90.8 | 91.2 | 94.1 | 95.8 | 97.5 | 96.9 | 94.3 | 96.7 | 97.4 | 148.5 |
| 2000 | 79.6 | 83.8 | 96.0 | 87.7 | 90.0 | 90.6 | 93.2 | 94.1 | 96.2 | 95.4 | 93.6 | 96.4 | 97.6 | 148.5 |
| 3150 | 78.5 | 82.8 | 95.0 | 87.4 | 89.9 | 90.5 | 93.4 | 93.4 | 95.7 | 94.7 | 93.3 | 96.8 | 98.0 | 147.6 |
| 4000 | 76.9 | 80.3 | 93.2 | 85.3 | 88.8 | 88.6 | 92.0 | 91.1 | 93.4 | 92.2 | 91.1 | 94.3 | 95.9 | 147.6 |
| 5000 | 75.6 | 79.7 | 91.6 | 84.1 | 86.6 | 86.8 | 89.0 | 89.0 | 92.4 | 89.8 | 90.1 | 90.9 | 93.7 | 145.9 |
| 6300 | 74.8 | 79.9 | 92.9 | 85.1 | 87.8 | 86.8 | 89.5 | 88.8 | 90.4 | 88.6 | 87.2 | 91.3 | 92.5 | 144.0 |
| 8000 | 74.1 | 80.0 | 94.7 | 86.4 | 88.0 | 86.2 | 90.5 | 89.1 | 89.4 | 87.4 | 85.1 | 88.2 | 89.3 | 144.4 |
| 10000 | 75.6 | 82.2 | 97.5 | 89.0 | 89.1 | 90.2 | 92.0 | 92.0 | 91.3 | 85.9 | 82.5 | 82.9 | 84.5 | 145.4 |
| 12500 | 71.9 | 77.2 | 93.0 | 83.3 | 82.6 | 83.7 | 85.1 | 86.1 | 87.5 | 84.1 | 79.2 | 78.3 | 81.0 | 143.5 |
| 16000 | 71.7 | 75.6 | 92.1 | 80.2 | 79.4 | 80.7 | 86.7 | 82.4 | 83.9 | 84.9 | 77.0 | 77.8 | 80.3 | 145.2 |
| OVERALL CALCULATED | 96.8 | 99.1 | 111.1 | 102.1 | 103.7 | 104.7 | 106.5 | 108.3 | 110.2 | 112.4 | 115.2 | 117.2 | 117.3 | 145.9 |
| PND8 | 106.2 | 109.6 | 121.8 | 113.5 | 115.5 | 116.3 | 118.5 | 119.5 | 121.5 | 121.7 | 121.7 | 123.8 | 124.3 | 166.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 640 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | 70 PERCENT REL. HUM. DAY | | | | | | | | | |
|----------------------------------|---|------|------|------|--------------------------|------|------|------|------|------|------|------|------|------|
| | FREQ. | 40. | 50. | 60. | | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| SIDELINE 2400. FT.
(731.52 M) | 50 | 46.9 | 54.0 | 66.6 | 56.6 | 58.3 | 60.3 | 63.1 | 64.3 | 66.8 | 68.3 | 72.9 | 72.6 | 70.9 |
| NFA (0. RAD/SEC) | 63 | 50.4 | 56.3 | 65.9 | 59.9 | 61.9 | 62.9 | 63.9 | 66.4 | 67.8 | 72.3 | 76.2 | 76.8 | 74.0 |
| HFK (0. RAD/SEC) | 80 | 52.4 | 56.0 | 69.3 | 59.9 | 61.1 | 62.9 | 63.9 | 66.4 | 67.8 | 72.3 | 77.9 | 78.2 | 74.2 |
| NFD (7500. RPM) | 100 | 52.6 | 56.0 | 63.6 | 59.9 | 62.1 | 64.1 | 64.9 | 66.6 | 68.6 | 73.3 | 77.9 | 78.7 | 74.3 |
| AIRFLOW RATIO | 125 | 53.8 | 57.2 | 69.1 | 61.4 | 63.7 | 64.9 | 66.2 | 68.4 | 70.6 | 73.8 | 77.9 | 78.7 | 73.7 |
| WF/HM 5.15 | 160 | 54.9 | 58.3 | 70.5 | 62.5 | 64.3 | 65.8 | 67.3 | 69.5 | 71.5 | 74.7 | 78.0 | 77.7 | 73.7 |
| VEHICLE CELL41 | 200 | 57.5 | 60.5 | 72.7 | 64.2 | 65.3 | 66.8 | 67.8 | 70.0 | 71.4 | 74.3 | 76.6 | 75.0 | 71.6 |
| CONFIG NC57 | 250 | 56.1 | 59.6 | 72.6 | 63.6 | 65.4 | 67.2 | 68.2 | 70.1 | 72.1 | 74.4 | 74.7 | 72.8 | 69.0 |
| LOC C41 ANECH CH | 315 | 56.1 | 59.9 | 71.7 | 64.3 | 65.8 | 67.3 | 67.8 | 69.8 | 71.9 | 74.3 | 73.2 | 70.9 | 66.7 |
| DATE 06-16-76 | 400 | 55.7 | 59.4 | 72.9 | 63.8 | 65.6 | 66.4 | 68.1 | 70.3 | 71.2 | 72.7 | 71.3 | 68.2 | 62.4 |
| RUN CONFOHIGHFLW | 500 | 55.6 | 59.6 | 72.4 | 63.8 | 65.9 | 66.9 | 67.6 | 69.8 | 71.6 | 71.7 | 68.9 | 65.4 | 58.7 |
| TAPE XD6400 | 630 | 55.1 | 58.7 | 72.7 | 64.1 | 65.9 | 66.5 | 67.7 | 69.8 | 70.9 | 71.6 | 68.0 | 63.0 | 55.7 |
| FAN YIP SPEED | 800 | 53.3 | 57.6 | 72.1 | 63.1 | 65.2 | 66.5 | 67.2 | 69.3 | 69.8 | 69.7 | 66.2 | 60.6 | 52.0 |
| FT/SEC | 1000 | 52.1 | 56.6 | 70.2 | 62.2 | 64.2 | 66.2 | 67.2 | 68.7 | 68.7 | 66.9 | 64.2 | 58.9 | 51.4 |
| OVERALL CALCULATED | 1250 | 49.4 | 54.4 | 68.4 | 61.0 | 63.2 | 64.8 | 67.2 | 68.3 | 67.9 | 65.5 | 62.1 | 58.8 | 50.7 |
| PND8 | 1600 | 46.4 | 51.7 | 65.5 | 58.7 | 61.4 | 63.3 | 64.9 | 66.2 | 66.2 | 63.9 | 59.4 | 55.5 | 46.7 |
| | 2000 | 42.3 | 50.2 | 64.0 | 56.6 | 59.7 | 60.3 | 62.9 | 63.8 | 64.2 | 61.5 | 55.5 | 52.5 | 43.2 |
| | 2500 | 37.4 | 43.6 | 60.2 | 53.5 | 56.7 | 57.6 | 59.9 | 59.9 | 60.5 | 57.2 | 51.4 | 47.8 | 36.9 |
| | 3150 | 30.9 | 40.0 | 55.3 | 49.6 | 53.2 | 54.1 | 56.7 | 55.7 | 56.0 | 52.0 | 45.8 | 41.3 | 27.0 |
| | 4000 | 21.3 | 30.8 | 47.6 | 42.1 | 46.9 | 47.2 | 50.1 | 47.9 | 47.9 | 42.8 | 35.5 | 28.2 | 9.4 |
| | 5000 | 15.3 | 26.3 | 42.6 | 37.8 | 41.7 | 42.4 | 43.5 | 42.7 | 43.4 | 36.5 | 29.8 | 18.8 | |
| | 6300 | U.7 | 15.1 | 33.8 | 29.5 | 34.2 | 33.7 | 35.8 | 33.3 | 31.3 | 23.8 | 13.2 | 1.4 | |
| | 8000 | | 20.2 | 16.7 | 20.8 | 21.9 | 23.3 | 19.4 | 14.9 | 5.0 | | | | |
| | 10000 | | 1.5 | 3.2 | 5.4 | 6.1 | 2.5 | | | | | | | |
| OVERALL CALCULATED | 16000 | 66.1 | 69.9 | 82.8 | 74.5 | 76.4 | 77.7 | 78.9 | 80.8 | 82.1 | 84.2 | 86.1 | 85.8 | 82.2 |
| | | 69.9 | 74.7 | 88.6 | 80.4 | 83.0 | 84.4 | 86.0 | 87.3 | 88.0 | 88.4 | 88.1 | 86.3 | 81.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 64c TEST POINT 64c ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-33m²(513in²)

6

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 22.0

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

FREQ. (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)(3.15)(3.3)(3.45)(3.6)(3.75)(3.9)(4.05)(4.2)(4.35)(4.5)(4.75)(5.0)(5.2)(5.4)(5.6)(5.8)(6.0)(6.3)(6.6)(6.9)(7.2)(7.5)(7.8)(8.1)(8.4)(8.7)(9.0)(9.5)(10.0)(10.5)(11.0)(11.5)(12.0)(12.5)(13.0)(13.5)(14.0)(15.0)(16.0)(18.0)(20.0)(25.0)(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)(160.0)(180.0)(200.0)(250.0)(300.0)(400.0)(500.0)(600.0)(700.0)(800.0)(900.0)(1000.0)(1250.0)(1500.0)(2000.0)(2500.0)(3150.0)(4000.0)(5000.0)(6300.0)(8000.0)(10000.0) (G.)(D.)(PWL)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | D. | PWL |
|----------|--------|------|-------|------|------|------|------|------|-------|------|-------|-------|-------|------|----|----|----|----|-------|
| 100 | 76.1 | 84.7 | 92.7 | 84.5 | 86.0 | 85.9 | 86.0 | 87.0 | 87.7 | 78.7 | 93.2 | 92.9 | 96.2 | | | | | | 131.1 |
| 125 | 75.6 | 80.1 | 91.4 | 83.9 | 85.7 | 86.9 | 85.7 | 86.7 | 88.2 | 86.4 | 75.2 | 94.1 | 96.3 | 97.6 | | | | | 131.9 |
| 160 | 75.6 | 78.2 | 91.7 | 82.0 | 82.5 | 83.2 | 83.3 | 83.5 | 85.2 | 85.9 | 81.2 | 95.2 | 96.9 | 99.4 | | | | | 132.2 |
| 200 | 78.5 | 78.3 | 90.8 | 82.8 | 83.7 | 84.3 | 85.2 | 87.8 | 90.3 | 83.4 | 97.3 | 102.5 | 104.5 | | | | | | 136.2 |
| 250 | 77.3 | 81.3 | 92.6 | 82.1 | 83.7 | 85.6 | 88.2 | 89.4 | 90.8 | 85.4 | 101.4 | 104.5 | 105.8 | | | | | | 138.2 |
| 315 | 79.2 | 83.9 | 92.2 | 84.7 | 87.3 | 87.7 | 88.6 | 90.7 | 93.2 | 87.7 | 103.2 | 107.6 | 108.7 | | | | | | 140.8 |
| 400 | 80.9 | 83.2 | 95.2 | 85.0 | 86.3 | 87.8 | 88.6 | 92.0 | 94.5 | 89.8 | 106.2 | 109.4 | 109.5 | | | | | | 142.5 |
| 500 | 81.8 | 83.3 | 94.3 | 85.3 | 87.2 | 88.5 | 90.2 | 92.8 | 95.8 | 92.1 | 108.1 | 111.5 | 110.0 | | | | | | 144.0 |
| 630 | 83.4 | 84.9 | 95.4 | 86.7 | 88.3 | 89.6 | 91.5 | 93.9 | 96.9 | 92.5 | 109.4 | 112.6 | 111.6 | | | | | | 145.3 |
| 800 | 85.4 | 85.9 | 97.4 | 88.2 | 89.8 | 91.2 | 92.0 | 95.4 | 98.4 | 93.2 | 110.4 | 112.6 | 111.7 | | | | | | 145.6 |
| 1000 | 88.9 | 89.5 | 100.5 | 91.0 | 91.6 | 92.7 | 93.6 | 95.8 | 99.0 | 93.6 | 109.5 | 112.2 | 112.0 | | | | | | 145.6 |
| 1250 | 87.5 | 89.3 | 100.6 | 90.6 | 91.7 | 93.1 | 94.2 | 97.4 | 99.8 | 93.9 | 108.1 | 112.0 | 111.3 | | | | | | 145.1 |
| 1600 | 87.9 | 88.9 | 99.2 | 90.7 | 92.3 | 93.7 | 94.0 | 96.7 | 99.9 | 93.7 | 106.5 | 111.1 | 110.2 | | | | | | 144.1 |
| 2000 | 90.4 | 90.0 | 101.7 | 91.5 | 92.1 | 93.2 | 94.6 | 97.5 | 100.2 | 93.3 | 104.7 | 107.9 | 107.7 | | | | | | 142.5 |
| 2500 | 96.5 | 94.3 | 103.1 | 92.1 | 92.9 | 93.6 | 94.7 | 97.4 | 100.3 | 92.2 | 102.6 | 106.0 | 104.8 | | | | | | 141.7 |
| 3150 | 99.2 | 98.0 | 107.5 | 96.1 | 94.9 | 94.3 | 94.7 | 97.8 | 100.8 | 92.4 | 101.3 | 104.3 | 103.0 | | | | | | 143.0 |
| 4000 | 96.5 | 96.3 | 107.3 | 97.4 | 96.9 | 95.3 | 95.2 | 97.9 | 99.8 | 91.2 | 99.1 | 101.5 | 99.3 | | | | | | 142.3 |
| 5000 | 95.4 | 95.9 | 106.5 | 97.2 | 97.6 | 97.9 | 96.1 | 97.7 | 99.5 | 89.6 | 98.0 | 99.4 | 98.4 | | | | | | 141.9 |
| 6300 | 94.0 | 95.0 | 105.6 | 96.1 | 96.7 | 98.0 | 98.7 | 98.3 | 99.8 | 89.2 | 97.1 | 98.3 | 98.3 | | | | | | 141.6 |
| 8000 | 92.7 | 93.1 | 104.4 | 95.2 | 96.7 | 96.6 | 98.0 | 98.9 | 99.6 | 88.8 | 96.5 | 97.3 | 98.8 | | | | | | 141.2 |
| 10000 | 89.4 | 92.3 | 102.9 | 94.6 | 96.2 | 95.5 | 96.7 | 98.4 | 99.9 | 87.8 | 95.7 | 98.5 | 99.8 | | | | | | 140.7 |
| 12500 | 86.1 | 88.8 | 101.0 | 92.4 | 94.5 | 94.6 | 95.7 | 96.6 | 98.7 | 86.9 | 94.6 | 97.9 | 99.6 | | | | | | 139.8 |
| 16000 | 83.9 | 86.5 | 98.9 | 90.8 | 92.6 | 93.0 | 95.4 | 95.4 | 97.7 | 85.7 | 93.8 | 97.3 | 98.5 | | | | | | 139.2 |
| 20000 | 80.4 | 83.5 | 95.9 | 87.3 | 91.0 | 90.6 | 93.0 | 92.3 | 94.2 | 82.2 | 90.3 | 94.7 | 96.9 | | | | | | 137.5 |
| 25000 | 77.0 | 80.9 | 92.8 | 84.3 | 87.3 | 87.0 | 88.0 | 89.4 | 91.5 | 78.7 | 88.0 | 89.8 | 92.6 | | | | | | 135.5 |
| 31500 | 74.6 | 78.5 | 91.7 | 83.1 | 86.1 | 85.3 | 87.5 | 86.4 | 88.0 | 75.1 | 84.3 | 89.9 | 90.4 | | | | | | 135.5 |
| 40000 | 70.1 | 74.2 | 88.4 | 80.4 | 82.4 | 84.4 | 83.1 | 84.4 | 85.4 | 71.8 | 79.8 | 84.4 | 85.2 | | | | | | 135.5 |
| 50000 | 64.9 | 68.6 | 83.2 | 73.9 | 75.0 | 76.8 | 77.8 | 77.1 | 77.9 | 65.0 | 73.3 | 77.3 | 78.3 | | | | | | 133.7 |
| 63000 | 60.4 | 62.7 | 77.8 | 66.7 | 67.5 | 67.9 | 68.5 | 69.0 | 69.9 | 57.8 | 66.5 | 68.4 | 71.2 | | | | | | 133.0 |
| 80000 | 57.3 | 59.7 | 76.1 | 63.0 | 62.2 | 62.8 | 63.7 | 59.9 | 62.1 | 52.2 | 60.2 | 63.8 | 66.1 | | | | | | 139.1 |

OVERALL MEASURED

OVERALL CALCULATED 104.9 105.0 115.5 105.9 106.7 107.0 107.8 109.5 111.8 104.1 118.1 121.3 120.8

PNUB 119.2 113.9 129.0 119.1 119.4 119.7 120.0 121.8 124.2 116.3 127.6 131.0 130.5

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT TEST POINT ACOUSTIC RANGE ACoustic RANGE SIZE MODEL-125 cm²(194 in²)

6 6 41 12.2m(40ft.) ARC

| NO EGA | SIDELINE 240G. FT.
(731.52 M) | NFA
(0. RPM/SEC) | NFK
(1. RPM) | NFD
(0. RAD/SEC) | AIRFLOW RATIO
WF/HM 5.15 | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|--------------------|---|----------------------|------------------|----------------------|-----------------------------|---|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. |
| FREQ. | (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 | 51.9 | 57.5 | 60.0 | 62.1 | 64.1 | 66.6 | 67.3 | 68.1 | 61.5 | 75.9 | 76.9 | 74.7 | 0. | 0. | 0. |
| 50 | 51.9 | 57.5 | 60.0 | 62.1 | 64.1 | 66.6 | 67.3 | 68.1 | 61.5 | 75.9 | 76.9 | 74.7 | 0. | 0. | 0. | 0. | |
| 63 | 53.7 | 60.0 | 68.4 | 62.6 | 65.7 | 66.2 | 66.9 | 68.6 | 70.4 | 63.8 | 77.7 | 79.9 | 77.4 | 0. | 0. | 0. | |
| 80 | 55.4 | 59.2 | 72.3 | 62.9 | 64.6 | 66.1 | 66.9 | 69.9 | 71.6 | 65.8 | 80.7 | 81.5 | 78.0 | 0. | 0. | 0. | |
| 100 | 56.1 | 59.2 | 71.3 | 63.1 | 65.4 | 66.9 | 68.4 | 70.6 | 72.8 | 68.0 | 82.4 | 83.5 | 78.4 | 0. | 0. | 0. | |
| 125 | 57.6 | 60.7 | 74.4 | 64.4 | 66.4 | 67.9 | 69.7 | 71.6 | 73.9 | 68.3 | 83.6 | 84.4 | 79.8 | 0. | 0. | 0. | |
| 160 | 59.4 | 61.6 | 74.2 | 65.8 | 67.8 | 69.3 | 70.1 | 73.0 | 75.2 | 68.9 | 84.5 | 84.2 | 79.4 | 0. | 0. | 0. | |
| 200 | 62.8 | 65.0 | 77.2 | 68.5 | 69.5 | 70.8 | 71.5 | 73.2 | 75.7 | 69.1 | 83.3 | 83.5 | 79.4 | 0. | 0. | 0. | |
| 250 | 61.1 | 64.6 | 77.1 | 67.9 | 69.4 | 70.9 | 71.9 | 74.6 | 76.3 | 69.2 | 81.7 | 83.0 | 78.2 | 0. | 0. | 0. | |
| 315 | 61.1 | 63.9 | 75.4 | 67.8 | 69.8 | 71.3 | 71.8 | 73.8 | 76.2 | 68.8 | 79.7 | 81.7 | 76.4 | 0. | 0. | 0. | |
| 400 | 63.2 | 64.6 | 77.7 | 68.3 | 69.3 | 70.6 | 71.8 | 74.3 | 76.2 | 68.0 | 77.5 | 77.9 | 73.1 | 0. | 0. | 0. | |
| 500 | 68.8 | 68.6 | 78.7 | 68.5 | 69.9 | 70.7 | 71.8 | 73.8 | 75.9 | 66.4 | 74.9 | 75.4 | 69.2 | 0. | 0. | 0. | |
| 630 | 70.9 | 71.7 | 81.7 | 72.1 | 71.4 | 71.0 | 71.2 | 73.8 | 75.9 | 66.1 | 73.0 | 72.7 | 66.2 | 0. | 0. | 0. | |
| 800 | 67.3 | 69.3 | 81.8 | 72.8 | 72.9 | 71.5 | 71.2 | 73.3 | 74.3 | 64.2 | 69.9 | 68.9 | 60.8 | 0. | 0. | 0. | |
| 1000 | 65.1 | 68.1 | 80.2 | 72.0 | 72.9 | 73.5 | 71.4 | 72.5 | 73.2 | 61.7 | 67.7 | 65.4 | 57.9 | 0. | 0. | 0. | |
| 1250 | 62.4 | 66.1 | 78.4 | 70.0 | 71.2 | 72.8 | 73.2 | 72.3 | 72.6 | 60.3 | 65.6 | 62.6 | 55.2 | 0. | 0. | 0. | |
| 1600 | 59.4 | 62.7 | 76.0 | 67.9 | 70.2 | 70.3 | 71.4 | 71.7 | 71.2 | 58.4 | 63.1 | 59.3 | 52.2 | 0. | 0. | 0. | |
| 2000 | 54.0 | 60.2 | 73.0 | 66.1 | 68.4 | 68.9 | 69.8 | 70.0 | 70.0 | 55.7 | 60.3 | 57.7 | 48.9 | 0. | 0. | 0. | |
| 2500 | 47.6 | 54.3 | 68.7 | 62.0 | 64.9 | 65.3 | 66.2 | 66.1 | 66.7 | 52.4 | 56.1 | 53.0 | 42.6 | 0. | 0. | 0. | |
| 3150 | 40.7 | 48.0 | 63.5 | 57.3 | 60.2 | 60.8 | 62.9 | 61.9 | 62.3 | 47.2 | 50.5 | 46.0 | 31.7 | 0. | 0. | 0. | |
| 4000 | 29.8 | 39.0 | 55.3 | 49.0 | 54.1 | 54.1 | 56.1 | 54.1 | 53.5 | 37.7 | 39.7 | 33.7 | 15.4 | 0. | 0. | 0. | |
| 5000 | 23.0 | 33.8 | 50.0 | 44.2 | 48.7 | 48.9 | 49.4 | 49.4 | 48.8 | 31.6 | 34.0 | 24.0 | 3.4 | 0. | 0. | 0. | |
| 6300 | 8.4 | 21.5 | 40.5 | 35.4 | 40.3 | 40.1 | 41.7 | 38.7 | 36.8 | 18.2 | 18.1 | 7.8 | 0. | 0. | 0. | 0. | |
| 8000 | 2.0 | 24.0 | 20.8 | 25.5 | 26.3 | 27.5 | 23.5 | 20.1 | 20.1 | 0.9 | 0.9 | 0.9 | 0.9 | 0. | 0. | 0. | |
| 10000 | 0.4 | 0.4 | 2.3 | 2.3 | 5.3 | 5.3 | 5.2 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0. | 0. | 0. | |
| 12500 | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 76.1 | 77.9 | 89.7 | 80.8 | 81.9 | 82.6 | 83.1 | 84.8 | 86.5 | 78.7 | 91.7 | 92.4 | 88.0 | | | |
| PND | | 82.0 | 84.4 | 96.7 | 88.1 | 90.1 | 90.5 | 91.4 | 92.3 | 93.1 | 83.0 | 94.0 | 94.1 | 88.8 | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 64/ ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM., DAY - JENONTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 22.0

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 100 | 79.4 | 87.9 | 95.7 | 87.0 | 88.3 | 89.2 | 88.5 | 89.5 | 90.2 | 91.0 | 95.2 | 95.9 | 98.7 | 134.0 | | | | |
| 125 | 78.6 | 82.1 | 93.6 | 85.9 | 87.7 | 88.6 | 89.0 | 90.4 | 88.1 | 87.2 | 96.1 | 96.6 | 100.1 | 134.2 | | | | |
| 160 | 78.1 | 80.7 | 84.9 | 84.0 | 84.8 | 85.4 | 85.5 | 87.0 | 87.9 | 93.0 | 97.2 | 99.4 | 102.4 | 135.1 | | | | |
| 200 | 80.0 | 80.5 | 92.5 | 84.6 | 85.4 | 86.5 | 87.2 | 89.8 | 92.0 | 95.4 | 99.6 | 104.5 | 106.3 | 136.4 | | | | |
| 250 | 79.3 | 83.8 | 95.1 | 84.9 | 86.0 | 87.8 | 90.2 | 91.9 | 93.6 | 97.4 | 104.6 | 107.3 | 109.1 | 141.4 | | | | |
| 315 | 81.4 | 86.2 | 94.9 | 87.2 | 89.6 | 90.4 | 90.8 | 92.7 | 94.7 | 99.8 | 106.2 | 110.6 | 111.4 | 143.8 | | | | |
| 400 | 83.4 | 85.5 | 97.5 | 86.7 | 88.6 | 89.7 | 90.3 | 94.2 | 96.5 | 102.3 | 109.0 | 111.9 | 112.0 | 145.3 | | | | |
| 500 | 83.8 | 85.5 | 97.0 | 87.6 | 89.2 | 90.8 | 91.9 | 94.3 | 97.0 | 104.1 | 111.1 | 114.2 | 113.5 | 147.2 | | | | |
| 630 | 85.6 | 87.1 | 98.1 | 88.9 | 90.5 | 91.6 | 93.0 | 95.9 | 98.4 | 105.2 | 112.7 | 115.1 | 113.9 | 148.2 | | | | |
| 800 | 88.4 | 88.9 | 99.7 | 90.7 | 92.0 | 92.9 | 94.3 | 97.4 | 100.2 | 106.7 | 114.4 | 115.9 | 114.4 | 149.3 | | | | |
| 1000 | 91.7 | 92.2 | 103.0 | 93.5 | 93.9 | 94.5 | 95.4 | 98.5 | 101.0 | 106.6 | 114.3 | 115.9 | 115.0 | 149.6 | | | | |
| 1250 | 91.5 | 92.8 | 104.1 | 94.1 | 94.9 | 96.3 | 97.2 | 99.4 | 102.1 | 106.6 | 112.9 | 116.3 | 114.8 | 149.4 | | | | |
| 1600 | 98.4 | 97.4 | 104.7 | 95.0 | 95.8 | 97.2 | 96.6 | 99.2 | 102.4 | 107.3 | 112.2 | 115.6 | 114.4 | 149.1 | | | | |
| 2000 | 106.4 | 103.5 | 112.2 | 95.3 | 96.3 | 96.5 | 97.6 | 100.0 | 102.5 | 106.6 | 110.5 | 114.2 | 112.0 | 149.4 | | | | |
| 2500 | 107.5 | 106.3 | 116.3 | 104.6 | 102.2 | 98.3 | 97.5 | 99.9 | 103.1 | 105.4 | 108.6 | 111.8 | 109.8 | 150.7 | | | | |
| 3150 | 105.7 | 105.3 | 116.3 | 106.8 | 106.9 | 104.0 | 100.2 | 100.6 | 103.6 | 105.9 | 107.6 | 109.8 | 107.8 | 150.8 | | | | |
| 4000 | 102.5 | 102.8 | 113.6 | 104.4 | 105.7 | 105.6 | 103.7 | 102.1 | 102.6 | 104.4 | 105.1 | 107.5 | 104.3 | 148.9 | | | | |
| 5000 | 101.4 | 101.4 | 112.0 | 103.0 | 103.6 | 104.7 | 105.3 | 104.5 | 103.7 | 103.6 | 103.8 | 105.2 | 103.7 | 148.0 | | | | |
| 6300 | 100.0 | 100.5 | 111.3 | 101.8 | 102.7 | 103.5 | 104.9 | 105.6 | 105.6 | 103.4 | 103.9 | 105.3 | 104.3 | 147.8 | | | | |
| 8000 | 98.5 | 98.3 | 109.1 | 100.9 | 102.0 | 103.1 | 103.5 | 104.6 | 106.4 | 104.0 | 101.2 | 103.6 | 104.1 | 147.0 | | | | |
| 10000 | 96.4 | 97.8 | 108.1 | 99.3 | 101.4 | 101.0 | 102.7 | 103.8 | 106.1 | 103.3 | 100.4 | 104.3 | 103.8 | 146.5 | | | | |
| 12500 | 94.1 | 95.1 | 106.2 | 97.9 | 99.5 | 99.3 | 101.0 | 101.6 | 102.9 | 101.1 | 98.8 | 102.8 | 102.3 | 144.9 | | | | |
| 16000 | 91.4 | 92.9 | 104.1 | 96.5 | 98.3 | 97.7 | 99.8 | 100.1 | 101.6 | 99.6 | 97.7 | 101.7 | 100.9 | 144.2 | | | | |
| 20000 | 88.4 | 89.2 | 101.3 | 92.9 | 96.4 | 95.5 | 97.9 | 96.3 | 98.6 | 96.1 | 94.2 | 97.7 | 97.8 | 142.3 | | | | |
| 25000 | 85.5 | 87.3 | 97.9 | 89.5 | 92.2 | 92.7 | 93.3 | 95.7 | 92.3 | 91.9 | 93.2 | 94.5 | 140.2 | | | | | |
| 31500 | 83.0 | 84.9 | 97.3 | 88.3 | 90.8 | 90.2 | 92.2 | 90.5 | 92.6 | 89.2 | 88.1 | 92.8 | 92.7 | 140.8 | | | | |
| 40000 | 78.7 | 81.3 | 94.9 | 85.2 | 87.0 | 87.0 | 88.5 | 86.7 | 88.2 | 85.3 | 84.1 | 87.8 | 88.3 | 140.6 | | | | |
| 50000 | 73.8 | 76.5 | 90.0 | 79.7 | 80.3 | 81.2 | 81.7 | 79.9 | 81.7 | 80.0 | 79.1 | 80.9 | 81.2 | 139.2 | | | | |
| 63000 | 69.5 | 71.2 | 86.4 | 74.6 | 74.1 | 74.2 | 74.3 | 73.1 | 74.7 | 73.3 | 72.8 | 73.5 | 75.8 | 140.6 | | | | |
| 80000 | 66.7 | 68.8 | 85.2 | 71.6 | 70.8 | 71.1 | 72.1 | 66.3 | 68.7 | 70.0 | 68.6 | 66.9 | 73.2 | 148.0 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 113.2 112.4 122.8 112.9 113.4 113.0 113.2 113.9 115.5 117.5 122.4 125.1 124.1 | | | | | | | | | | | | | | | | | | |
| PNDB 125.4 125.8 136.4 126.7 127.0 126.4 125.8 126.2 127.3 129.7 132.7 135.7 134.4 | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 64Z ACOUSTIC RANGE 12.2m(40ft) ARC SIZE MODEL-25 cm²(1/4 in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | P.dL |
|--|--|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | |
| 50 | 82.1 | 86.6 | 97.8 | 87.6 | 68.7 | 155.6 |
| 63 | 84.2 | 88.9 | 97.7 | 90.0 | 92.3 | 158.1 |
| 80 | 86.2 | 91.2 | 100.2 | 89.5 | 91.4 | 159.5 |
| 100 | 88.5 | 93.8 | 102.6 | 92.5 | 93.1 | 161.5 |
| 125 | 91.1 | 97.0 | 105.8 | 94.4 | 95.8 | 162.4 |
| 160 | 94.5 | 100.9 | 109.7 | 97.2 | 98.7 | 163.6 |
| 200 | 97.8 | 104.3 | 114.3 | 100.0 | 101.3 | 163.6 |
| 250 | 101.2 | 107.5 | 117.5 | 103.1 | 104.4 | 164.9 |
| 315 | 104.6 | 110.7 | 120.7 | 106.1 | 107.4 | 165.0 |
| 400 | 108.0 | 114.1 | 124.1 | 109.1 | 110.4 | 163.2 |
| 500 | 111.4 | 117.5 | 127.5 | 112.1 | 113.4 | 162.2 |
| 630 | 114.8 | 120.6 | 130.6 | 115.1 | 116.4 | 161.2 |
| 800 | 118.2 | 123.7 | 133.7 | 118.1 | 119.4 | 160.8 |
| 1000 | 121.6 | 126.8 | 136.8 | 121.1 | 122.4 | 159.2 |
| 1250 | 125.0 | 130.0 | 140.0 | 124.1 | 125.4 | 156.4 |
| 1600 | 128.4 | 133.1 | 143.1 | 127.1 | 128.4 | 158.5 |
| 2000 | 131.8 | 136.2 | 146.2 | 130.1 | 131.4 | 154.5 |
| 2500 | 135.2 | 139.3 | 149.3 | 133.1 | 134.4 | 155.0 |
| 3150 | 138.6 | 142.4 | 152.4 | 136.1 | 137.4 | 154.9 |
| 4000 | 142.0 | 145.5 | 155.5 | 139.1 | 140.4 | 153.4 |
| 5000 | 145.4 | 148.6 | 158.6 | 142.1 | 143.4 | 154.8 |
| 6300 | 148.8 | 151.7 | 161.7 | 145.1 | 146.4 | 162.2 |
| 8000 | 152.2 | 154.8 | 164.8 | 148.1 | 149.4 | 175.5 |
| 10000 | 155.6 | 157.9 | 167.9 | 151.1 | 152.4 | |
| 12500 | 159.0 | 161.0 | 171.0 | 154.1 | 155.4 | |
| 16000 | 162.4 | 164.1 | 174.1 | 157.1 | 158.4 | |
| OVERALL CALCULATED 110.1 115.4 125.9 116.0 116.6 117.1 118.7 120.4 125.2 127.9 126.8 | | | | | | |
| PNDB 124.4 124.4 135.1 126.1 127.5 127.3 128.5 128.9 130.9 130.3 131.4 134.5 133.6 | | | | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION C TEST POINT 642 ACOUSTIC RANGE 45.7m(150ft.) ARC 642 SIZE FULL-.33m²(513in²)

| NO EGA
SIDE LINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|---|-------|---|---------------|---------------|---------------|---------------|---------------|----------------|------|------|------|------|------|
| | | 4U.
(0.70) | 50.
(1.05) | 60.
(1.22) | 70.
(1.40) | 80.
(1.57) | 90.
(1.75) | 100.
(1.92) | | | | | |
| NFA | 50 | 53.9 | 60.0 | 62.3 | 64.3 | 66.3 | 69.8 | 73.5 | 79.2 | 80.2 | 140. | 150. | 160. |
| NFK | 80 | 57.9 | 61.5 | 64.6 | 67.4 | 69.1 | 70.1 | 72.1 | 73.6 | 75.8 | 80.7 | 83.4 | 84.0 |
| NFD | 100 | 58.1 | 61.5 | 64.6 | 67.4 | 69.1 | 70.1 | 72.1 | 73.6 | 75.8 | 80.7 | 83.4 | 84.0 |
| AIREFLOW RATIO | 125 | 59.8 | 63.0 | 66.6 | 68.7 | 69.9 | 71.2 | 73.6 | 75.4 | 81.0 | 86.9 | 86.9 | 82.0 |
| WF/WM 5.15 | 150 | 62.4 | 64.6 | 66.5 | 68.3 | 70.1 | 71.1 | 72.3 | 75.0 | 77.0 | 82.4 | 82.5 | 87.5 |
| VEHICLE | 200 | 65.5 | 67.7 | 71.0 | 71.3 | 72.5 | 73.3 | 76.0 | 77.7 | 82.1 | 87.3 | 87.3 | 82.4 |
| CONFIG | 250 | 65.1 | 68.1 | 71.4 | 72.7 | 74.2 | 74.9 | 76.6 | 78.6 | 82.0 | 86.4 | 87.3 | 81.7 |
| LOC C41 ANECH CH | 315 | 71.0 | 72.4 | 75.0 | 75.3 | 74.8 | 74.1 | 76.3 | 78.7 | 82.3 | 85.4 | 86.2 | 80.7 |
| DATE 06-16-76 | 400 | 79.2 | 81.1 | 82.8 | 83.4 | 81.7 | 79.7 | 74.6 | 76.8 | 81.2 | 83.3 | 84.2 | 77.4 |
| RUN CONF6HIGHFLW | 500 | 79.8 | 80.6 | 81.9 | 81.1 | 75.4 | 74.4 | 76.3 | 78.7 | 79.7 | 80.9 | 81.1 | 74.2 |
| TAPE XCG420 | 630 | 77.4 | 79.0 | 81.4 | 83.4 | 80.7 | 76.7 | 76.6 | 78.7 | 79.6 | 79.2 | 78.2 | 70.9 |
| FAN TIP SPEED | 800 | 75.3 | 75.8 | 77.7 | 77.7 | 78.9 | 79.7 | 77.6 | 77.1 | 77.4 | 75.9 | 74.9 | 65.8 |
| FT/SEC | 1000 | 71.1 | 73.6 | 75.7 | 77.7 | 78.9 | 80.2 | 80.7 | 79.2 | 77.4 | 75.7 | 73.5 | 71.1 |
| OVERALL CALCULATED | 1250 | 68.4 | 71.6 | 75.8 | 77.2 | 78.3 | 79.5 | 78.4 | 74.5 | 70.3 | 69.5 | 61.2 | 61.2 |
| PNDB | 1600 | 65.2 | 67.9 | 73.7 | 75.4 | 76.8 | 76.9 | 77.4 | 77.9 | 73.6 | 67.9 | 65.8 | 57.4 |
| | 2000 | 61.0 | 65.7 | 70.8 | 73.6 | 73.5 | 74.9 | 75.3 | 76.2 | 71.2 | 65.0 | 63.4 | 52.9 |
| | 2500 | 55.8 | 60.5 | 67.2 | 67.5 | 69.9 | 70.0 | 71.4 | 71.1 | 70.9 | 66.6 | 60.3 | 45.4 |
| | 3150 | 48.1 | 54.5 | 68.7 | 63.0 | 65.9 | 65.5 | 67.4 | 66.6 | 66.2 | 61.2 | 54.5 | 50.4 |
| | 4000 | 37.7 | 44.7 | 60.7 | 54.7 | 59.5 | 59.0 | 61.0 | 58.0 | 58.0 | 51.6 | 43.6 | 36.6 |
| | 5000 | 31.4 | 40.2 | 55.2 | 49.4 | 53.6 | 54.1 | 53.3 | 52.9 | 45.3 | 37.9 | 27.4 | 5.3 |
| | 6300 | 16.6 | 27.9 | 46.1 | 40.5 | 45.0 | 46.4 | 42.8 | 41.4 | 32.2 | 21.9 | 10.7 | |
| | 8000 | 9.1 | 30.6 | 25.7 | 30.1 | 30.9 | 31.6 | 27.1 | 23.9 | 13.2 | | | |
| | 10000 | 7.2 | 7.2 | 3.5 | 7.7 | 9.6 | 9.0 | 3.7 | | | | | |
| OVERALL CALCULATED | 16000 | 64.9 | 85.9 | 97.5 | 88.1 | 88.9 | 88.5 | 88.1 | 88.5 | 89.4 | 91.8 | 95.9 | 96.0 |
| | PNDB | 90.1 | 92.0 | 104.0 | 95.2 | 96.4 | 96.2 | 96.4 | 96.8 | 97.6 | 96.8 | 98.7 | 98.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 642 TEST POINT 642 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| RDG. NO. | NO. EGA | 40. FT. | 60. FT. | 80. FT. | 90. FT. | 100. FT. | 110. FT. | 120. FT. | 130. FT. | 140. FT. | 150. FT. | 160. FT. | 0. DEG. | 0. DEG. | 0. DEG. | 0. DEG. | 0. DEG. | 0. DEG. | 0. DEG. | |
|----------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|-------|
| 50 | 63 | 74.4 | 83.4 | 91.7 | 82.7 | 83.3 | 90.9 | 84.5 | 85.5 | 85.7 | 87.5 | 91.4 | 91.4 | 91.4 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 130.4 |
| 80 | 100 | 74.4 | 83.4 | 89.6 | 81.7 | 83.5 | 91.9 | 84.5 | 84.4 | 83.9 | 83.7 | 92.1 | 92.1 | 94.3 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 130.6 |
| 125 | 160 | 73.6 | 77.9 | 90.2 | 79.7 | 80.5 | 87.9 | 81.5 | 83.2 | 34.7 | 90.0 | 92.9 | 92.9 | 94.9 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 134.2 |
| 200 | 250 | 77.0 | 88.8 | 88.8 | 80.8 | 81.2 | 89.0 | 82.9 | 85.6 | 38.0 | 91.1 | 95.8 | 100.0 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 136.4 |
| 315 | 400 | 76.1 | 79.3 | 90.3 | 80.6 | 81.7 | 90.9 | 86.2 | 87.9 | 38.8 | 93.7 | 99.6 | 102.0 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 136.5 |
| 400 | 500 | 76.9 | 81.7 | 90.4 | 82.7 | 85.3 | 91.4 | 86.3 | 86.7 | 91.4 | 95.7 | 101.0 | 104.9 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 105.7 | 140.3 |
| 500 | 630 | 81.5 | 83.0 | 93.0 | 83.8 | 85.2 | 94.0 | 87.9 | 90.3 | 93.8 | 99.9 | 104.8 | 106.0 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 141.3 |
| 800 | 1000 | 81.1 | 82.9 | 93.9 | 85.2 | 86.8 | 94.6 | 89.5 | 92.4 | 95.1 | 100.0 | 105.2 | 107.8 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 141.5 |
| 1250 | 1600 | 82.9 | 84.4 | 95.2 | 86.7 | 88.0 | 96.9 | 90.8 | 93.4 | 96.7 | 101.0 | 105.2 | 107.4 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 140.6 |
| 2000 | 2500 | 84.3 | 86.1 | 97.6 | 87.9 | 88.9 | 97.2 | 91.9 | 94.0 | 97.0 | 101.1 | 103.5 | 104.7 | 105.5 | 105.5 | 105.5 | 105.5 | 105.5 | 105.5 | 140.0 |
| 3150 | 4000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 139.4 |
| 5000 | 6300 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 138.3 |
| 8000 | 10000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 138.5 |
| 12500 | 16000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 138.4 |
| 20000 | 25000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 137.8 |
| 31500 | 40000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 137.7 |
| 50000 | 63000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 136.1 |
| 80000 | 100000 | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 134.0 |
| 152.7 | | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 133.5 |
| | | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 131.7 |
| | | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 130.5 |
| | | 84.3 | 86.1 | 96.9 | 87.9 | 88.9 | 97.8 | 91.9 | 94.9 | 97.3 | 101.1 | 102.3 | 103.3 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 133.8 |

OVERALL MEASURED 95.5 97.9 109.6 100.5 102.2 110.4 105.0 107.4 109.6 111.9 114.2 116.1 116.2
 OVERALL CALCULATED 108.5 110.8 122.6 113.2 114.6 122.9 117.2 120.0 122.0 124.1 124.7 124.7 124.6

PNDB 108.5 110.8 122.6 113.2 114.6 122.9 117.2 120.0 122.0 124.1 124.7 124.7 124.6

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 6 TEST POINT 643 ACUSTIC RANGE 12.2m(40ft) ARC MODEL-125 cm²(194 in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 26 HR. 22.1 | | | | | | | | | | | | |
|---|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 26 HR. 22.1 | | | | | | | | | | | | |
| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| 50 | 78.8 | 82.1 | 93.1 | 83.4 | 84.5 | 93.3 | 89.0 | 90.6 | 91.6 | 96.4 | 102.4 | 104.8 | 106.1 | 150.6 |
| 63 | 79.7 | 84.2 | 93.2 | 85.5 | 86.1 | 94.7 | 89.1 | 91.5 | 94.2 | 98.5 | 103.7 | 107.7 | 108.4 | 152.8 |
| 80 | 82.7 | 84.5 | 96.7 | 86.5 | 87.6 | 95.5 | 89.9 | 93.0 | 95.7 | 101.0 | 106.7 | 109.4 | 109.8 | 154.6 |
| 100 | 83.5 | 84.3 | 95.8 | 86.6 | 87.9 | 96.8 | 90.7 | 93.1 | 96.6 | 102.6 | 107.6 | 110.8 | 109.8 | 155.5 |
| 125 | 83.9 | 85.6 | 96.7 | 87.9 | 89.5 | 97.4 | 92.3 | 95.2 | 97.9 | 102.7 | 107.9 | 110.6 | 109.6 | 155.7 |
| 160 | 85.6 | 87.2 | 97.9 | 89.5 | 90.8 | 99.7 | 93.6 | 96.2 | 99.4 | 103.7 | 108.0 | 110.1 | 109.9 | 155.9 |
| 200 | 87.7 | 89.0 | 100.3 | 90.8 | 91.6 | 100.0 | 94.6 | 96.8 | 99.8 | 103.8 | 106.3 | 107.5 | 108.2 | 154.8 |
| 250 | 87.1 | 88.8 | 100.3 | 90.6 | 91.7 | 100.6 | 94.7 | 97.6 | 100.1 | 103.9 | 105.1 | 106.1 | 106.6 | 154.2 |
| 315 | 87.4 | 89.4 | 99.7 | 91.2 | 92.6 | 100.9 | 95.1 | 97.5 | 100.7 | 104.0 | 104.0 | 104.4 | 104.7 | 153.7 |
| 400 | 87.7 | 89.2 | 101.3 | 91.8 | 92.9 | 100.7 | 95.4 | 98.3 | 100.8 | 103.3 | 103.0 | 102.5 | 101.7 | 153.2 |
| 500 | 87.6 | 89.6 | 100.9 | 91.4 | 93.0 | 100.9 | 95.5 | 98.2 | 101.1 | 102.0 | 101.4 | 100.3 | 100.1 | 152.5 |
| 630 | 87.8 | 90.1 | 102.4 | 92.4 | 93.8 | 101.4 | 95.8 | 98.9 | 101.1 | 102.7 | 101.7 | 99.3 | 98.9 | 153.0 |
| 800 | 87.1 | 89.2 | 101.7 | 91.7 | 93.6 | 102.2 | 96.1 | 99.2 | 100.7 | 102.1 | 99.8 | 98.2 | 96.7 | 152.7 |
| 1000 | 86.3 | 88.6 | 100.6 | 91.9 | 93.2 | 101.8 | 96.0 | 99.1 | 100.6 | 101.2 | 99.7 | 97.8 | 97.1 | 152.3 |
| 1250 | 85.2 | 88.5 | 100.3 | 91.6 | 93.4 | 102.5 | 97.2 | 99.3 | 100.3 | 100.9 | 100.9 | 98.8 | 98.5 | 152.7 |
| 1600 | 84.5 | 87.4 | 99.8 | 91.0 | 93.6 | 101.7 | 96.6 | 98.7 | 100.5 | 99.9 | 100.6 | 99.2 | 100.5 | 152.6 |
| 2000 | 83.5 | 87.4 | 99.8 | 91.0 | 93.6 | 101.7 | 96.6 | 98.7 | 100.5 | 99.9 | 100.6 | 99.2 | 100.5 | 152.6 |
| 2500 | 82.3 | 86.1 | 98.7 | 90.4 | 92.5 | 100.8 | 96.2 | 97.1 | 99.2 | 98.9 | 99.5 | 101.1 | 102.8 | 152.0 |
| 3150 | 80.5 | 85.0 | 97.4 | 89.9 | 92.4 | 100.2 | 95.9 | 96.4 | 99.2 | 98.2 | 99.3 | 101.6 | 102.7 | 151.9 |
| 4000 | 76.6 | 82.0 | 95.9 | 87.7 | 91.5 | 98.6 | 94.7 | 94.3 | 96.9 | 96.2 | 95.8 | 99.2 | 100.6 | 150.3 |
| 5000 | 76.3 | 81.1 | 93.3 | 85.8 | 88.8 | 96.3 | 91.0 | 92.7 | 95.6 | 93.5 | 95.8 | 96.1 | 98.4 | 148.3 |
| 6300 | 75.5 | 80.6 | 94.3 | 86.2 | 89.2 | 96.2 | 91.6 | 91.8 | 94.1 | 92.5 | 93.4 | 97.3 | 97.5 | 148.5 |
| 8000 | 73.3 | 78.9 | 93.8 | 85.1 | 86.9 | 94.9 | 90.4 | 89.0 | 92.1 | 91.2 | 92.3 | 94.4 | 94.9 | 147.7 |
| 10000 | 70.9 | 76.9 | 91.6 | 82.9 | 83.7 | 92.6 | 86.8 | 88.7 | 87.2 | 88.6 | 89.3 | 90.6 | 90.6 | 145.9 |
| 12500 | 69.3 | 73.6 | 89.5 | 79.7 | 79.9 | 88.9 | 84.0 | 85.0 | 85.0 | 86.2 | 87.4 | 87.4 | 87.4 | 144.7 |
| 16000 | 71.4 | 74.7 | 90.7 | 79.0 | 78.2 | 88.3 | 86.7 | 81.5 | 84.4 | 86.2 | 85.0 | 86.9 | 89.6 | 148.1 |
| OVERALL CALCULATED | 98.4 | 100.7 | 112.5 | 103.5 | 105.3 | 113.5 | 108.3 | 110.4 | 112.7 | 114.8 | 117.0 | 118.8 | 118.8 | 166.8 |
| PWDB | 108.0 | 111.3 | 123.6 | 115.2 | 117.4 | 125.4 | 120.6 | 121.9 | 124.3 | 124.7 | 125.8 | 127.2 | 127.9 | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 643 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | FREQ. | INLET IN DEGREES (AND RADIANHS) | | | 70 PERCENT REL. HUM. DAY | | | | | | | |
|----------------------|---|--------|--------|--------|---------------------------------|--------|--------|--------------------------|--------|--------|--------|--------|-------|-------|-------|
| | 40. | 50. | 60. | | 90. | 100. | 110. | | 120. | 130. | 140. | 150. | 160. | | |
| SIDELINE 2400. FT. | (0.70) | (0.87) | (1.05) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (0.) | (0.) | (0.) |
| (731.52 M) | 50.6 | 55.5 | 67.6 | 58.6 | 60.1 | 69.1 | 65.8 | 66.1 | 69.8 | 74.2 | 74.4 | 72.2 | | | |
| 1. RPM | 51.7 | 57.5 | 67.6 | 60.6 | 63.7 | 70.4 | 66.6 | 68.6 | 71.8 | 75.5 | 77.1 | 74.4 | | | |
| (0. RAD/SEC) | 54.4 | 57.7 | 71.1 | 61.0 | 63.1 | 71.1 | 65.4 | 68.1 | 70.1 | 74.3 | 78.4 | 78.8 | | | |
| (0. RAD/SEC) | 54.8 | 57.5 | 70.1 | 61.6 | 63.4 | 72.4 | 66.1 | 68.1 | 70.3 | 75.8 | 79.1 | 80.0 | | | |
| 7500. RPM | 55.3 | 58.7 | 70.9 | 62.9 | 64.9 | 72.9 | 67.7 | 70.1 | 72.1 | 75.8 | 79.4 | 79.7 | | | |
| (785. RAD/SEC) | 56.9 | 60.1 | 72.0 | 64.3 | 66.1 | 75.1 | 68.8 | 71.0 | 73.5 | 76.7 | 79.2 | 79.0 | | | |
| AIRFLOW RATIO | 56.8 | 61.7 | 74.2 | 65.5 | 66.8 | 75.3 | 69.8 | 71.5 | 73.7 | 76.6 | 77.3 | 76.0 | | | |
| WFF/M 5.15 | 57.8 | 61.4 | 74.1 | 65.1 | 66.7 | 75.7 | 69.7 | 72.1 | 73.8 | 76.4 | 75.9 | 74.3 | | | |
| VEHICLE CELL41 | 57.9 | 61.7 | 73.2 | 65.5 | 67.3 | 75.8 | 69.8 | 71.8 | 74.2 | 76.3 | 74.4 | 72.2 | | | |
| CONFIS NC57 | 57.7 | 61.1 | 74.4 | 65.8 | 67.3 | 75.4 | 69.8 | 72.3 | 73.9 | 75.2 | 73.0 | 69.7 | | | |
| LOC C41 ANECH CH | 57.1 | 61.1 | 73.7 | 65.0 | 67.1 | 75.2 | 69.6 | 71.8 | 73.9 | 73.4 | 70.9 | 66.9 | | | |
| DATE 06-16-76 | 56.6 | 61.0 | 74.7 | 65.6 | 67.4 | 75.2 | 69.4 | 72.1 | 73.4 | 73.6 | 70.5 | 65.0 | | | |
| RUN CONF0HIGHFLW | 55.0 | 59.3 | 73.3 | 64.3 | 66.7 | 75.5 | 69.2 | 71.8 | 72.3 | 72.2 | 67.7 | 62.6 | | | |
| TAPE X06430 | 53.1 | 57.8 | 71.4 | 63.7 | 65.7 | 74.5 | 68.4 | 71.0 | 71.4 | 70.4 | 66.5 | 60.9 | | | |
| FAN TIP SPEED FT/SEC | 50.7 | 56.6 | 70.1 | 62.5 | 65.0 | 74.3 | 68.7 | 70.3 | 70.6 | 69.0 | 66.3 | 60.1 | | | |
| OVERALL CALCULATED | 47.9 | 54.0 | 67.5 | 60.9 | 63.7 | 72.5 | 67.7 | 69.4 | 68.7 | 67.4 | 64.1 | 58.0 | | | |
| PN08 | 44.7 | 52.0 | 66.5 | 59.1 | 62.4 | 70.7 | 65.4 | 66.8 | 67.2 | 64.5 | 61.0 | 56.5 | | | |
| | 40.1 | 47.8 | 62.9 | 56.2 | 59.2 | 67.8 | 62.9 | 63.4 | 60.6 | 57.4 | 52.5 | 42.1 | | | |
| | 32.9 | 42.3 | 57.8 | 52.1 | 55.7 | 63.8 | 59.2 | 58.6 | 59.5 | 55.5 | 51.8 | 46.0 | | | |
| | 22.8 | 32.5 | 50.3 | 44.5 | 49.6 | 57.1 | 52.9 | 51.1 | 51.3 | 46.7 | 41.2 | 33.2 | | | |
| | 16.0 | 27.8 | 44.3 | 39.5 | 43.9 | 51.9 | 46.2 | 46.4 | 46.5 | 40.1 | 35.5 | 24.0 | | | |
| | 1.4 | 15.8 | 35.2 | 30.7 | 35.6 | 43.1 | 38.0 | 36.2 | 35.0 | 27.7 | 19.3 | 7.3 | | | |
| | | | 19.3 | 15.3 | 19.7 | 28.6 | 23.2 | 19.3 | 17.6 | 8.9 | | | | | |
| | | | | | | 7.8 | 1.4 | | | | | | | | |

CONFIGURATION 6 TEST POINT 643 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 643 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH. 8 DAY 26 HR. 22.0
ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160.
FREQ. (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)(3.5)(4.0)(4.5)(5.0)(5.5)(6.0)(6.5)(7.0)(7.5)(8.0)(8.5)(9.0)(9.5)(10.0)(10.5)(11.0)(11.5)(12.0)(12.5)(13.0)(13.5)(14.0)(14.5)(15.0)(15.5)(16.0)

NO EGA 63
RDG. NO. 0. FT. 80
RADIAL 40. FT. 100
VEHICLE CELL41 125
CONFIG NC57 160
LOC C41 ANECH CH 200
DATE 06-16-76 250
RUN CONF6HIGHFLW 315
TAPE X06440 400
BAR 29.3 HG 500
(98975. N/M2) 630
TARB 61. DEG # 800
(289. DEG K) 1000
TRET 59. DEG F 1600
(288. DEG K) 2000
HACT12-23 GM/M3 2500
(.01223 KG/M3) 3150
JET 4000
DIAMETER RATIO 5000
DF/DM 1 8000

| RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 77.4 | 86.4 | 94.2 | 85.7 | 87.3 | 87.7 | 87.5 | 88.7 | 89.4 | 90.5 | 94.4 | 95.1 | 97.2 |
| 125 | 76.8 | 80.4 | 92.4 | 85.2 | 86.7 | 87.9 | 87.7 | 89.4 | 87.1 | 86.4 | 95.4 | 97.6 | 98.6 |
| 160 | 76.0 | 79.7 | 93.2 | 83.2 | 84.0 | 84.4 | 84.5 | 86.5 | 87.4 | 92.5 | 96.4 | 98.6 | 101.7 |
| 200 | 79.5 | 80.0 | 91.8 | 83.8 | 84.7 | 85.5 | 86.2 | 88.8 | 91.3 | 94.9 | 98.5 | 103.5 | 105.8 |
| 250 | 78.8 | 82.6 | 94.3 | 83.9 | 84.7 | 86.8 | 89.2 | 91.1 | 92.3 | 96.9 | 103.4 | 106.3 | 107.6 |
| 315 | 80.4 | 85.2 | 93.7 | 86.0 | 88.3 | 88.9 | 89.6 | 92.2 | 94.2 | 98.8 | 104.7 | 108.9 | 109.2 |
| 400 | 82.7 | 84.7 | 97.0 | 86.5 | 87.6 | 89.5 | 90.1 | 93.5 | 95.7 | 101.5 | 108.0 | 111.4 | 111.2 |
| 500 | 82.5 | 84.5 | 96.0 | 86.8 | 87.9 | 90.3 | 91.4 | 93.8 | 96.5 | 103.6 | 109.6 | 112.7 | 111.3 |
| 630 | 84.1 | 85.9 | 97.1 | 88.2 | 89.8 | 91.4 | 92.8 | 95.4 | 98.6 | 103.7 | 110.2 | 113.8 | 112.1 |
| 800 | 86.6 | 87.9 | 98.7 | 89.9 | 91.5 | 92.7 | 93.8 | 96.9 | 99.7 | 105.0 | 110.7 | 114.1 | 112.7 |
| 1000 | 89.9 | 91.0 | 102.2 | 92.3 | 92.9 | 94.0 | 95.1 | 98.3 | 100.2 | 104.8 | 110.0 | 113.4 | 112.7 |
| 1250 | 88.5 | 90.1 | 101.6 | 91.9 | 93.7 | 95.1 | 95.7 | 98.9 | 101.1 | 105.1 | 108.1 | 113.0 | 112.3 |
| 1600 | 89.4 | 90.9 | 100.4 | 92.7 | 93.3 | 94.9 | 96.1 | 98.5 | 101.4 | 105.3 | 107.0 | 111.9 | 111.7 |
| 2000 | 90.9 | 91.0 | 103.0 | 92.8 | 93.6 | 95.5 | 96.6 | 99.3 | 102.2 | 104.8 | 105.8 | 110.4 | 109.2 |
| 2500 | 95.5 | 94.1 | 103.6 | 93.1 | 94.4 | 95.1 | 96.4 | 99.4 | 102.3 | 103.7 | 104.1 | 108.3 | 107.3 |
| 3150 | 98.2 | 97.3 | 107.3 | 96.3 | 95.4 | 95.0 | 96.9 | 100.1 | 102.6 | 103.9 | 104.1 | 107.5 | 106.0 |
| 4000 | 96.3 | 96.3 | 106.8 | 97.1 | 97.2 | 96.1 | 96.7 | 100.1 | 102.1 | 103.2 | 102.1 | 105.3 | 103.6 |
| 5000 | 95.1 | 95.9 | 105.7 | 97.2 | 97.3 | 98.5 | 99.7 | 100.2 | 102.2 | 102.3 | 102.0 | 104.2 | 103.7 |
| 6300 | 92.9 | 94.8 | 105.6 | 96.1 | 97.4 | 98.5 | 99.7 | 100.1 | 102.1 | 101.7 | 101.6 | 105.2 | 104.3 |
| 8000 | 91.7 | 93.3 | 103.9 | 95.6 | 97.0 | 97.8 | 99.2 | 100.6 | 101.9 | 102.0 | 101.2 | 105.1 | 104.1 |
| 10000 | 88.9 | 91.7 | 103.1 | 94.6 | 96.9 | 96.5 | 98.6 | 101.3 | 102.1 | 100.7 | 100.2 | 105.5 | 104.5 |
| 12500 | 86.0 | 89.8 | 101.7 | 93.1 | 94.9 | 95.8 | 97.0 | 99.0 | 100.7 | 99.3 | 100.0 | 104.3 | 102.8 |
| 16000 | 84.1 | 88.6 | 100.1 | 92.2 | 93.5 | 94.4 | 97.0 | 97.5 | 99.8 | 98.1 | 98.9 | 103.2 | 101.9 |
| 20000 | 81.3 | 85.6 | 98.0 | 89.9 | 92.9 | 92.2 | 95.1 | 93.9 | 97.0 | 94.5 | 95.9 | 99.1 | 98.7 |
| 25000 | 77.9 | 83.4 | 94.6 | 86.6 | 89.1 | 88.8 | 90.1 | 91.5 | 94.6 | 91.5 | 93.6 | 94.4 | 95.7 |
| 31500 | 76.2 | 81.5 | 93.7 | 85.6 | 87.9 | 87.1 | 89.8 | 88.7 | 91.2 | 88.3 | 90.3 | 94.7 | 93.1 |
| 40000 | 71.8 | 77.4 | 90.8 | 82.3 | 83.4 | 83.4 | 85.4 | 84.8 | 86.5 | 85.4 | 87.0 | 89.8 | 88.9 |
| 50000 | 60.1 | 71.3 | 85.0 | 76.3 | 76.1 | 77.2 | 77.7 | 77.7 | 80.5 | 79.0 | 80.9 | 82.9 | 82.2 |
| 63000 | 60.2 | 64.2 | 78.8 | 69.0 | 68.5 | 69.7 | 70.3 | 70.8 | 73.8 | 73.4 | 74.5 | 75.5 | 74.5 |
| 80000 | 56.9 | 59.4 | 76.0 | 63.2 | 62.9 | 63.5 | 64.7 | 62.9 | 68.6 | 70.0 | 70.4 | 69.3 | 69.0 |
| OVERALL MEASURED | | | | | | | | | | | | | |
| OVERALL CALCULATED | 104.5 | 105.2 | 115.8 | 106.5 | 107.5 | 108.1 | 109.4 | 111.5 | 113.7 | 115.9 | 119.3 | 123.1 | 122.2 |
| PNDB | 118.7 | 118.8 | 129.1 | 119.5 | 120.0 | 120.5 | 121.3 | 123.8 | 126.1 | 128.0 | 129.6 | 133.3 | 132.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 644 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-125 cm²(194in²) SIZE

FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 8 DAY 26 HR. 22.1
59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | TAP | BAR | TAMB | TWET | HACT | FREQ. | SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PWL |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-----|-----|-----|
| | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | |
| 50 | 81.6 | 85.3 | 87.9 | 86.4 | 88.7 | 91.1 | 91.7 | 92.3 | 95.0 | 96.9 | 101.5 | 107.5 | 111.7 | 111.9 | 154.5 | | | |
| 63 | 83.2 | 87.9 | 96.4 | 88.7 | 89.3 | 90.4 | 92.2 | 92.9 | 96.3 | 98.5 | 104.3 | 110.7 | 114.2 | 114.0 | 156.3 | | | |
| 80 | 85.4 | 87.5 | 99.7 | 89.6 | 90.7 | 93.1 | 94.2 | 96.6 | 99.3 | 106.4 | 112.3 | 115.5 | 114.1 | 158.8 | | | | |
| 100 | 85.3 | 87.3 | 98.8 | 89.6 | 90.7 | 93.1 | 94.2 | 96.6 | 99.3 | 106.4 | 112.3 | 115.5 | 114.1 | 159.9 | | | | |
| 125 | 86.9 | 88.7 | 99.9 | 90.9 | 92.5 | 94.2 | 95.5 | 98.2 | 101.4 | 106.5 | 112.9 | 116.6 | 114.9 | 160.8 | | | | |
| 160 | 89.4 | 90.7 | 101.4 | 92.7 | 94.3 | 95.4 | 96.6 | 99.7 | 102.4 | 107.7 | 113.5 | 116.9 | 115.4 | 161.3 | | | | |
| 200 | 92.7 | 95.7 | 105.0 | 95.0 | 95.6 | 96.7 | 97.9 | 101.0 | 103.0 | 107.6 | 112.8 | 116.2 | 115.5 | 161.1 | | | | |
| 250 | 91.3 | 92.8 | 104.3 | 94.6 | 96.5 | 97.8 | 98.5 | 101.6 | 103.8 | 107.9 | 110.9 | 115.8 | 115.1 | 160.6 | | | | |
| 315 | 92.2 | 93.7 | 103.2 | 93.5 | 96.1 | 97.7 | 98.8 | 101.2 | 104.2 | 108.0 | 109.7 | 114.7 | 114.4 | 159.9 | | | | |
| 400 | 93.7 | 93.7 | 105.8 | 95.5 | 96.4 | 98.2 | 99.4 | 102.0 | 105.0 | 107.6 | 108.5 | 113.2 | 112.0 | 159.0 | | | | |
| 500 | 98.3 | 96.9 | 106.4 | 95.9 | 97.3 | 97.9 | 99.3 | 102.2 | 105.1 | 106.5 | 106.9 | 111.1 | 110.1 | 158.1 | | | | |
| 630 | 101.1 | 100.1 | 110.1 | 99.2 | 98.3 | 97.9 | 99.8 | 102.9 | 105.4 | 106.7 | 106.9 | 110.3 | 108.9 | 158.9 | | | | |
| 800 | 99.1 | 99.2 | 109.7 | 100.0 | 100.1 | 98.9 | 99.6 | 103.0 | 105.0 | 106.1 | 105.0 | 108.2 | 106.4 | 158.1 | | | | |
| 1000 | 98.0 | 98.8 | 108.6 | 100.1 | 100.2 | 101.1 | 100.5 | 103.1 | 105.1 | 105.2 | 104.9 | 107.1 | 106.6 | 157.7 | | | | |
| 1250 | 95.9 | 97.8 | 108.5 | 99.1 | 100.4 | 101.5 | 102.6 | 103.1 | 105.0 | 104.7 | 104.6 | 108.2 | 107.3 | 157.9 | | | | |
| 1600 | 94.9 | 96.5 | 107.0 | 96.5 | 100.1 | 101.0 | 102.4 | 103.8 | 105.0 | 105.2 | 104.3 | 108.2 | 107.2 | 157.7 | | | | |
| 2000 | 92.3 | 95.1 | 106.5 | 98.0 | 100.3 | 99.9 | 102.0 | 104.7 | 105.5 | 104.1 | 103.5 | 108.9 | 107.9 | 157.7 | | | | |
| 2500 | 89.8 | 93.5 | 105.4 | 96.8 | 98.7 | 99.5 | 101.4 | 102.7 | 104.4 | 103.1 | 103.7 | 108.0 | 106.5 | 156.8 | | | | |
| 3150 | 86.4 | 92.9 | 104.3 | 94.5 | 97.8 | 98.6 | 101.3 | 101.8 | 104.1 | 102.3 | 103.2 | 107.5 | 106.1 | 156.4 | | | | |
| 4000 | 86.3 | 90.6 | 103.0 | 94.9 | 97.9 | 97.2 | 100.1 | 98.9 | 102.0 | 99.5 | 100.9 | 104.1 | 103.7 | 154.6 | | | | |
| 5000 | 84.2 | 89.7 | 100.8 | 92.9 | 95.4 | 95.1 | 96.4 | 97.8 | 100.9 | 97.8 | 99.8 | 100.6 | 102.0 | 152.8 | | | | |
| 6300 | 84.0 | 89.4 | 101.5 | 93.5 | 95.8 | 95.0 | 97.7 | 96.5 | 99.1 | 96.1 | 98.1 | 102.5 | 101.0 | 153.2 | | | | |
| 8000 | 82.0 | 87.6 | 101.0 | 92.5 | 93.6 | 93.6 | 95.6 | 94.9 | 96.7 | 95.6 | 97.2 | 100.0 | 99.1 | 152.6 | | | | |
| 10000 | 79.4 | 84.5 | 98.2 | 89.5 | 89.4 | 90.4 | 91.0 | 90.9 | 93.7 | 92.2 | 94.1 | 96.1 | 95.5 | 150.4 | | | | |
| 12500 | 78.0 | 81.9 | 96.5 | 86.7 | 86.2 | 87.4 | 88.0 | 88.5 | 91.5 | 91.1 | 92.2 | 93.2 | 92.2 | 150.0 | | | | |
| 16000 | 80.9 | 83.5 | 100.1 | 87.2 | 86.9 | 87.6 | 88.7 | 86.9 | 92.6 | 94.1 | 94.4 | 93.3 | 93.1 | 155.1 | | | | |
| OVERALL CALCULATED | 107.4 | 108.2 | 119.0 | 109.7 | 110.8 | 111.4 | 112.3 | 114.7 | 116.9 | 118.8 | 122.1 | 125.9 | 125.0 | 172.0 | | | | |
| PND8 | 116.5 | 118.8 | 130.1 | 121.6 | 123.0 | 123.5 | 126.7 | 128.9 | 128.7 | 130.3 | 134.2 | 133.2 | 133.2 | | | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 644 ACUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(51in²)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN(S)) | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) | (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)(3.1) |
| FREQ. | | 50 | 53.4 | 57.1 | 60.7 | 64.4 | 68.1 | 71.8 | 75.5 | 79.2 | 82.9 | 86.6 | 90.3 | 94.0 |
| NO EGA | | 63 | 54.9 | 61.3 | 70.9 | 83.9 | 96.7 | 110.4 | 124.1 | 137.8 | 151.5 | 165.2 | 178.9 | 192.6 |
| SIDELINE 2400. FT. | | 80 | 57.1 | 60.7 | 74.1 | 88.4 | 102.7 | 117.0 | 131.3 | 145.6 | 159.9 | 174.2 | 188.5 | 202.8 |
| (731.52 M) | | 100 | 56.8 | 60.5 | 73.1 | 86.6 | 100.1 | 113.6 | 127.1 | 140.6 | 154.1 | 167.6 | 181.1 | 194.6 |
| NFA (1. RPM | | 225 | 58.3 | 61.7 | 74.1 | 87.9 | 101.7 | 115.5 | 129.3 | 143.1 | 156.9 | 170.7 | 184.5 | 198.3 |
| (0. RAD/SEC) | | 160 | 60.6 | 63.6 | 75.5 | 89.5 | 103.5 | 117.5 | 131.5 | 145.5 | 159.5 | 173.5 | 187.5 | 201.5 |
| NFK (1. RPM | | 200 | 63.8 | 66.5 | 78.9 | 92.7 | 106.5 | 120.3 | 134.1 | 147.9 | 161.7 | 175.5 | 189.3 | 203.1 |
| (0. RAD/SEC) | | 250 | 62.1 | 65.4 | 78.1 | 91.4 | 104.7 | 118.0 | 131.3 | 144.6 | 157.9 | 171.2 | 184.5 | 197.8 |
| NFD (7500. RPM | | 315 | 62.6 | 65.9 | 78.7 | 91.8 | 104.9 | 118.0 | 131.1 | 144.2 | 157.3 | 170.4 | 183.5 | 196.6 |
| (785. RAD/SEC) | | 400 | 63.7 | 66.6 | 79.9 | 93.2 | 106.5 | 119.8 | 133.1 | 146.4 | 159.7 | 173.0 | 186.3 | 199.6 |
| AIRFLOW RATIO | | 500 | 67.5 | 68.3 | 79.2 | 89.6 | 100.0 | 110.4 | 120.8 | 131.2 | 141.6 | 152.0 | 162.4 | 172.8 |
| W/F/H 5.15 | | 630 | 69.9 | 71.0 | 82.4 | 93.8 | 105.2 | 116.6 | 128.0 | 139.4 | 150.8 | 162.2 | 173.6 | 185.0 |
| VEHICLE CELL41 | | 800 | 67.0 | 69.3 | 81.3 | 93.2 | 105.1 | 117.0 | 128.9 | 140.8 | 152.7 | 164.6 | 176.5 | 188.4 |
| CONFIG NC57 | | 1000 | 64.8 | 68.1 | 79.4 | 90.7 | 102.0 | 113.3 | 124.6 | 135.9 | 147.2 | 158.5 | 169.8 | 181.1 |
| LOC C41 ANECH CH | | 1250 | 61.4 | 65.8 | 78.4 | 91.0 | 103.6 | 116.2 | 128.8 | 141.4 | 154.0 | 166.6 | 179.2 | 191.8 |
| DATE 06-16-76 | | 1600 | 56.4 | 62.9 | 75.4 | 88.4 | 101.4 | 114.4 | 127.4 | 140.4 | 153.4 | 166.4 | 179.4 | 192.4 |
| RUN CONF081GHFLW | | 2000 | 53.5 | 59.7 | 73.2 | 86.0 | 98.8 | 111.6 | 124.4 | 137.2 | 150.0 | 162.8 | 175.6 | 188.4 |
| TAPE X06440 | | 2500 | 47.6 | 55.3 | 69.6 | 84.7 | 99.8 | 114.9 | 130.0 | 145.1 | 160.2 | 175.3 | 190.4 | 205.5 |
| FAN TIP SPEED | | 3150 | 40.8 | 50.2 | 64.7 | 79.2 | 93.7 | 108.2 | 122.7 | 137.2 | 151.7 | 166.2 | 180.7 | 195.2 |
| FT/SEC | | 4000 | 36.7 | 41.2 | 57.4 | 71.7 | 86.0 | 100.3 | 114.6 | 128.9 | 143.2 | 157.5 | 171.8 | 186.1 |
| | | 5000 | 23.9 | 28.3 | 41.8 | 56.0 | 70.2 | 84.4 | 98.6 | 112.8 | 127.0 | 141.2 | 155.4 | 169.6 |
| | | 6300 | 10.0 | 24.6 | 33.5 | 42.1 | 50.7 | 59.3 | 67.9 | 76.5 | 85.1 | 93.7 | 102.3 | 110.9 |
| | | 8000 | | 25.8 | 28.8 | 42.1 | 50.7 | 59.3 | 67.9 | 76.5 | 85.1 | 93.7 | 102.3 | 110.9 |
| | | 10000 | | 5.2 | 26.4 | 28.8 | 42.1 | 50.7 | 59.3 | 67.9 | 76.5 | 85.1 | 93.7 | 102.3 |
| | | 12500 | | | 2.2 | 0.1 | 3.5 | 5.7 | 8.1 | 10.5 | 13.2 | 16.0 | 18.8 | 21.6 |
| | | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | | 75.6 | 78.1 | 90.1 | 81.4 | 82.8 | 83.8 | 84.7 | 86.7 | 88.2 | 90.2 | 92.6 | 93.9 | 89.1 |
| PND8 | | 81.6 | 84.5 | 97.0 | 88.8 | 91.0 | 91.7 | 93.0 | 94.6 | 95.2 | 95.1 | 95.5 | 96.3 | 90.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 644 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------|
| RADIAL (12. M) | | (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.) (0.) (0.) |
| 100 | 81.4 | 89.2 | 96.9 | 88.5 | 90.3 | 89.4 | 90.3 | 91.2 | 91.9 | 102.2 | 96.7 | 97.1 | 100.4 | 137.3 | |
| 125 | 80.1 | 82.6 | 94.6 | 87.2 | 88.2 | 90.4 | 90.5 | 91.4 | 89.6 | 98.2 | 93.1 | 100.6 | 100.9 | 136.4 | |
| 160 | 79.6 | 81.9 | 95.9 | 85.2 | 86.3 | 86.4 | 86.5 | 88.7 | 89.7 | 104.5 | 99.4 | 100.9 | 103.9 | 138.9 | |
| 200 | 81.8 | 82.0 | 94.3 | 86.3 | 86.4 | 88.3 | 88.7 | 91.3 | 93.5 | 106.6 | 101.6 | 106.3 | 108.5 | 142.0 | |
| 250 | 80.8 | 84.6 | 96.3 | 85.9 | 87.0 | 88.8 | 91.5 | 93.4 | 94.3 | 108.7 | 106.1 | 108.5 | 110.1 | 144.2 | |
| 315 | 82.9 | 87.4 | 95.9 | 87.7 | 90.6 | 91.2 | 92.3 | 94.5 | 96.4 | 111.3 | 107.7 | 112.1 | 112.4 | 146.8 | |
| 400 | 85.2 | 87.0 | 99.5 | 88.3 | 89.8 | 91.5 | 92.3 | 95.3 | 98.2 | 114.0 | 111.0 | 113.9 | 113.5 | 149.0 | |
| 500 | 85.6 | 86.8 | 98.3 | 88.8 | 90.7 | 92.3 | 92.9 | 96.1 | 98.5 | 116.1 | 112.8 | 115.2 | 114.0 | 150.6 | |
| 630 | 87.1 | 88.9 | 99.4 | 90.7 | 92.3 | 93.4 | 94.5 | 97.4 | 100.6 | 117.5 | 113.9 | 116.1 | 114.6 | 151.7 | |
| 800 | 89.9 | 90.4 | 100.9 | 92.4 | 93.8 | 94.4 | 95.8 | 98.9 | 101.9 | 118.2 | 115.2 | 117.1 | 115.2 | 152.6 | |
| 1000 | 93.2 | 94.0 | 105.0 | 94.5 | 95.1 | 96.0 | 97.4 | 99.3 | 102.5 | 117.8 | 115.0 | 116.7 | 116.2 | 152.6 | |
| 1250 | 95.0 | 95.3 | 105.8 | 95.9 | 96.4 | 97.8 | 99.2 | 101.1 | 104.1 | 117.9 | 113.4 | 117.5 | 115.6 | 152.6 | |
| 1600 | 104.4 | 102.9 | 109.4 | 97.0 | 96.8 | 97.9 | 98.1 | 100.5 | 103.9 | 118.0 | 112.7 | 117.4 | 115.9 | 152.8 | |
| 2000 | 109.9 | 107.2 | 116.0 | 102.8 | 99.1 | 98.2 | 99.1 | 101.8 | 104.7 | 117.8 | 111.0 | 115.4 | 114.2 | 153.4 | |
| 2500 | 109.5 | 108.8 | 119.3 | 107.9 | 106.7 | 102.3 | 99.5 | 102.1 | 105.6 | 116.7 | 109.9 | 114.0 | 112.3 | 154.3 | |
| 3150 | 106.2 | 106.8 | 117.8 | 109.1 | 109.2 | 107.8 | 103.4 | 103.3 | 105.8 | 117.1 | 110.1 | 112.5 | 110.5 | 153.9 | |
| 4000 | 104.0 | 104.1 | 115.1 | 105.4 | 107.2 | 108.1 | 107.2 | 104.9 | 105.6 | 116.2 | 108.6 | 111.0 | 108.1 | 152.5 | |
| 5000 | 103.4 | 103.9 | 114.5 | 105.0 | 104.8 | 105.9 | 107.1 | 107.2 | 106.5 | 116.3 | 108.3 | 109.7 | 108.2 | 152.2 | |
| 6300 | 101.4 | 102.3 | 113.6 | 104.3 | 105.2 | 105.8 | 106.2 | 108.1 | 108.3 | 116.2 | 107.9 | 109.5 | 107.3 | 152.1 | |
| 8000 | 100.2 | 101.1 | 111.6 | 102.9 | 104.7 | 105.6 | 106.0 | 107.9 | 109.4 | 116.8 | 107.7 | 108.3 | 106.6 | 152.1 | |
| 10000 | 98.1 | 99.7 | 110.6 | 102.1 | 103.9 | 103.7 | 105.4 | 106.8 | 109.3 | 116.7 | 106.9 | 108.0 | 106.2 | 152.0 | |
| 12500 | 95.0 | 97.3 | 108.9 | 100.6 | 101.9 | 102.3 | 103.9 | 105.0 | 106.2 | 114.1 | 105.5 | 106.6 | 104.5 | 150.2 | |
| 16000 | 92.8 | 95.4 | 106.5 | 99.0 | 100.8 | 100.6 | 103.3 | 103.3 | 103.3 | 105.0 | 112.3 | 103.6 | 103.4 | 149.3 | |
| 20000 | 90.1 | 91.9 | 104.2 | 95.6 | 98.4 | 98.5 | 101.4 | 100.4 | 102.0 | 108.8 | 98.9 | 102.3 | 100.7 | 147.3 | |
| 25000 | 86.9 | 89.9 | 100.8 | 92.6 | 94.6 | 95.0 | 96.1 | 97.0 | 98.8 | 105.7 | 97.0 | 97.8 | 97.4 | 145.4 | |
| 31500 | 84.4 | 87.2 | 99.9 | 91.1 | 93.1 | 92.8 | 94.5 | 94.9 | 96.2 | 102.2 | 93.4 | 97.9 | 95.1 | 145.3 | |
| 40000 | 79.8 | 83.1 | 96.4 | 87.5 | 89.0 | 88.3 | 90.0 | 90.2 | 92.0 | 98.8 | 90.4 | 94.3 | 90.8 | 144.8 | |
| 50000 | 74.3 | 77.7 | 91.7 | 81.7 | 81.8 | 82.4 | 83.2 | 82.9 | 86.2 | 93.9 | 86.3 | 86.8 | 84.7 | 143.6 | |
| 63000 | 70.2 | 71.7 | 86.8 | 75.7 | 75.5 | 75.9 | 75.5 | 76.0 | 80.3 | 87.6 | 81.4 | 80.9 | 78.2 | 144.0 | |
| 80000 | 66.4 | 68.9 | 84.8 | 71.7 | 71.1 | 71.8 | 72.4 | 69.9 | 76.3 | 82.5 | 78.3 | 76.0 | 75.3 | 149.8 | |
| OVERALL MEASURED | 115.5 | 114.9 | 125.2 | 115.3 | 115.7 | 115.5 | 115.6 | 116.5 | 118.1 | 129.2 | 123.9 | 126.7 | 125.5 | 165.1 | |
| OVERALL CALCULATED | 128.4 | 128.2 | 138.6 | 129.0 | 128.7 | 128.2 | 128.2 | 128.6 | 129.8 | 141.3 | 135.0 | 137.8 | 136.4 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 645 ACOUSTIC RANGE 12.2m(40ft) ARC MODEL-125cm²(194in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 22.1

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (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) | (2.97) | (3.14) | (3.32) | (3.49) |
| RDG. NO. | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 |
| RADIAL 150. FT. | 83.6 | 87.3 | 99.1 | 88.6 | 89.7 | 91.6 | 94.2 | 96.1 | 97.1 | 97.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| (46. M) | 85.7 | 90.2 | 98.7 | 90.5 | 93.3 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| VEHICLE CELL41 | 87.9 | 89.7 | 102.2 | 91.0 | 92.6 | 94.2 | 95.1 | 95.1 | 95.1 | 95.1 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| LOC C41 ANECH CH | 88.5 | 89.6 | 101.1 | 91.6 | 93.4 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| DATE 06-16-76 | 89.9 | 91.7 | 102.2 | 93.4 | 95.0 | 96.2 | 97.3 | 98.6 | 97.2 | 98.6 | 101.7 | 103.4 | 120.2 | 116.7 | 118.9 | 117.4 | 117.4 |
| RUN CONF6HIGHFLW | 92.6 | 93.2 | 103.7 | 95.2 | 96.6 | 97.2 | 98.6 | 97.2 | 98.6 | 101.7 | 103.4 | 120.2 | 116.7 | 118.9 | 117.4 | 117.4 | 117.4 |
| TAPE X06450 | 95.0 | 96.8 | 107.8 | 97.3 | 97.9 | 98.8 | 100.1 | 102.0 | 105.3 | 120.6 | 117.8 | 119.5 | 119.0 | 119.0 | 119.0 | 119.0 | 119.0 |
| BAR 29.3 HG | 97.8 | 98.1 | 108.6 | 98.6 | 99.2 | 100.6 | 102.0 | 103.9 | 106.8 | 120.7 | 116.1 | 120.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 |
| (98908. N/M2) | 107.2 | 105.7 | 112.2 | 99.7 | 99.6 | 100.7 | 100.8 | 103.2 | 106.7 | 120.8 | 115.5 | 120.2 | 118.7 | 118.7 | 118.7 | 118.7 | 118.7 |
| TARB 64. DEG F | 112.7 | 110.0 | 118.8 | 105.5 | 101.9 | 101.0 | 101.9 | 104.9 | 104.5 | 107.5 | 120.6 | 113.8 | 118.2 | 117.0 | 117.0 | 117.0 | 117.0 |
| (251. DEG K) | 109.1 | 109.6 | 120.6 | 111.9 | 112.0 | 110.6 | 106.3 | 106.2 | 108.4 | 119.5 | 112.7 | 116.8 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| TWET 61. DEG F | 106.9 | 106.9 | 118.0 | 108.3 | 110.1 | 110.9 | 110.1 | 107.8 | 108.5 | 119.1 | 111.5 | 113.9 | 110.9 | 110.9 | 110.9 | 110.9 | 110.9 |
| (289. DEG K) | 104.4 | 105.3 | 116.6 | 107.3 | 108.1 | 108.8 | 109.1 | 108.8 | 109.1 | 111.1 | 111.3 | 119.2 | 112.6 | 111.1 | 111.1 | 111.1 | 111.1 |
| HACT12.83 GM/M3 | 104.2 | 104.2 | 114.8 | 106.0 | 107.9 | 108.7 | 109.1 | 108.8 | 109.1 | 111.0 | 112.5 | 119.9 | 110.8 | 111.5 | 109.7 | 109.7 | 109.7 |
| FREQ. SHIFT | 101.5 | 103.1 | 114.0 | 105.5 | 107.3 | 107.1 | 108.8 | 110.2 | 112.7 | 120.1 | 110.3 | 111.4 | 109.6 | 109.6 | 109.6 | 109.6 | 109.6 |
| JET | 101.0 | 112.6 | 104.3 | 105.6 | 106.0 | 107.6 | 108.7 | 109.9 | 117.8 | 109.2 | 110.3 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 |
| DIAMETER RATIO | 95.0 | 96.8 | 109.2 | 100.6 | 103.3 | 104.9 | 107.5 | 107.6 | 109.3 | 116.6 | 107.9 | 109.9 | 107.6 | 107.6 | 107.6 | 107.6 | 107.6 |
| DF/DM 5.15 | 93.1 | 96.2 | 107.7 | 98.9 | 100.8 | 101.3 | 102.3 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 |
| OVERALL CALCULATED | 90.0 | 93.3 | 106.6 | 97.7 | 99.2 | 98.5 | 100.2 | 100.4 | 102.2 | 109.0 | 100.6 | 104.5 | 101.0 | 101.0 | 101.0 | 101.0 | 101.0 |
| | 87.9 | 90.9 | 104.9 | 94.9 | 95.0 | 95.6 | 96.4 | 96.1 | 99.4 | 107.2 | 99.5 | 100.1 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 |
| | 90.4 | 92.9 | 108.8 | 95.7 | 95.2 | 95.8 | 96.5 | 93.9 | 100.3 | 106.5 | 102.4 | 100.0 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 |
| | 118.3 | 117.9 | 128.3 | 118.4 | 118.9 | 118.7 | 119.0 | 119.8 | 121.5 | 132.2 | 126.8 | 129.6 | 128.2 | 128.2 | 128.2 | 128.2 | 128.2 |
| | 128.5 | 126.8 | 137.6 | 128.6 | 129.8 | 129.9 | 131.3 | 132.0 | 133.8 | 142.8 | 135.2 | 137.5 | 135.7 | 135.7 | 135.7 | 135.7 | 135.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 6 645 45.7m(150ft.) ARC FULL-33m²(513in²)

| NO EGA
(731.52 M) | SIDELINE 2400. FT.
(731.52 M) | NFA (| NFX (| NFD 7500. RPM
(785. RAD/SEC) | AIRFLOW RATIO
WF/WM 5.15 | VEHICLE
CONFIG NCS7 | LOC C41 ANECH CH
DATE 06-16-76 | RUN CONFHIGHFLW
TAPE X06450 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | |
|----------------------|----------------------------------|-------|-------|----------------------------------|-----------------------------|------------------------|-----------------------------------|--------------------------------|-------------------------|---|-------|-------|------|------|------|-----|------|------|------|
| | | | | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. |
| 50 | 55.4 | 60.7 | 63.5 | 73.1 | 65.6 | 68.9 | 69.7 | 70.7 | 72.4 | 73.6 | 84.8 | 80.7 | 80.9 | 78.9 | 160. | | | | |
| 63 | 57.4 | 63.5 | 73.1 | 65.6 | 68.9 | 69.7 | 70.7 | 72.4 | 73.6 | 84.8 | 80.7 | 80.9 | 78.9 | 160. | | | | | |
| 80 | 59.6 | 63.0 | 76.6 | 66.1 | 68.1 | 69.9 | 70.6 | 71.1 | 73.9 | 75.3 | 90.1 | 85.4 | 86.0 | 82.0 | 150. | | | | |
| 100 | 60.1 | 62.7 | 75.3 | 65.6 | 68.9 | 70.6 | 71.1 | 73.9 | 75.6 | 92.0 | 87.1 | 87.2 | 82.6 | 82.8 | 160. | | | | |
| 125 | 61.3 | 64.7 | 76.4 | 68.4 | 70.4 | 71.7 | 72.7 | 75.1 | 77.6 | 93.3 | 88.1 | 87.9 | 82.8 | 82.8 | 160. | | | | |
| 160 | 63.9 | 66.1 | 77.7 | 70.0 | 71.8 | 72.6 | 73.6 | 76.5 | 78.7 | 93.9 | 89.2 | 86.7 | 82.9 | 82.9 | 160. | | | | |
| 200 | 67.0 | 69.5 | 81.7 | 72.0 | 73.0 | 74.0 | 75.3 | 76.7 | 79.2 | 93.3 | 88.8 | 88.0 | 83.6 | 83.6 | 160. | | | | |
| 250 | 68.0 | 70.6 | 82.3 | 73.1 | 74.2 | 75.7 | 76.9 | 78.4 | 80.6 | 93.2 | 86.9 | 88.5 | 82.5 | 82.5 | 160. | | | | |
| 315 | 77.0 | 77.9 | 85.7 | 74.0 | 74.3 | 75.6 | 75.6 | 77.5 | 80.2 | 93.0 | 85.9 | 88.0 | 82.2 | 82.2 | 160. | | | | |
| 400 | 82.7 | 81.9 | 91.9 | 79.5 | 76.3 | 75.6 | 76.3 | 78.5 | 80.7 | 92.5 | 83.8 | 85.4 | 79.6 | 79.6 | 160. | | | | |
| 500 | 81.8 | 83.1 | 94.9 | 84.3 | 83.6 | 79.4 | 76.4 | 78.6 | 81.2 | 90.9 | 82.2 | 83.4 | 76.7 | 76.7 | 160. | | | | |
| 630 | 77.9 | 80.5 | 92.9 | 85.1 | 85.7 | 84.5 | 80.0 | 79.3 | 80.9 | 90.9 | 81.7 | 81.0 | 73.7 | 73.7 | 160. | | | | |
| 800 | 74.8 | 77.1 | 89.6 | 80.8 | 83.2 | 84.2 | 83.2 | 80.3 | 80.1 | 89.2 | 79.4 | 78.4 | 69.5 | 69.5 | 160. | | | | |
| 1000 | 73.1 | 76.1 | 88.2 | 79.7 | 80.2 | 81.5 | 82.4 | 82.0 | 80.2 | 88.4 | 78.0 | 75.6 | 67.6 | 67.6 | 160. | | | | |
| 1250 | 69.9 | 73.3 | 86.4 | 78.2 | 79.7 | 80.5 | 80.7 | 82.0 | 81.1 | 87.2 | 76.3 | 73.8 | 64.2 | 64.2 | 160. | | | | |
| 1600 | 66.9 | 70.7 | 83.2 | 75.7 | 78.2 | 79.3 | 79.4 | 80.7 | 80.9 | 86.4 | 74.3 | 70.2 | 59.9 | 59.9 | 160. | | | | |
| 2000 | 62.7 | 67.7 | 80.7 | 73.5 | 76.1 | 76.2 | 77.6 | 78.3 | 79.4 | 84.7 | 71.5 | 67.2 | 55.4 | 55.4 | 160. | | | | |
| 2500 | 56.6 | 62.8 | 76.9 | 70.2 | 72.3 | 73.0 | 74.3 | 74.8 | 74.1 | 79.6 | 67.1 | 61.7 | 47.6 | 47.6 | 160. | | | | |
| 3150 | 49.6 | 56.9 | 71.1 | 65.5 | 68.3 | 68.5 | 70.8 | 69.8 | 69.6 | 73.8 | 60.4 | 54.4 | 36.6 | 36.6 | 160. | | | | |
| 4000 | 39.4 | 47.4 | 63.6 | 57.4 | 61.5 | 62.0 | 64.5 | 62.2 | 61.4 | 64.3 | 48.2 | 41.3 | 19.2 | 19.2 | 160. | | | | |
| 5000 | 32.8 | 42.8 | 58.0 | 52.5 | 56.0 | 56.9 | 57.5 | 56.9 | 56.0 | 58.6 | 43.0 | 32.0 | 8.2 | 8.2 | 160. | | | | |
| 6300 | 18.2 | 30.3 | 48.7 | 43.4 | 47.3 | 47.6 | 48.7 | 47.1 | 44.9 | 45.3 | 27.2 | 15.7 | | | 160. | | | | |
| 8000 | | 10.9 | 32.1 | 27.9 | 32.1 | 32.2 | 33.1 | 30.7 | 27.6 | 26.6 | 5.4 | | | | 160. | | | | |
| 10000 | | | 8.9 | 5.5 | 9.2 | 10.9 | 10.5 | 6.7 | 3.4 | 0.3 | | | | | 160. | | | | |
| 12500 | | | | | | | | | | | | | | | 160. | | | | |
| 16000 | | | | | | | | | | | | | | | 160. | | | | |
| OVERALL CALCULATED | 87.4 | 88.4 | 100.0 | 90.5 | 91.2 | 90.9 | 90.3 | 90.8 | 91.8 | 103.3 | 97.1 | 97.4 | 92.3 | 92.3 | 160. | | | | |
| PND8 | 92.7 | 94.4 | 106.6 | 97.5 | 98.6 | 98.6 | 98.9 | 99.6 | 100.6 | 108.7 | 100.7 | 100.5 | 94.0 | 94.0 | 160. | | | | |

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 6 645 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 22.0
 F. 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. | D. | D. | PWL |
|--------------------|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-------|-------|
| | | 40. | 50. | 60. | 70. | | | | | | | | | | | | | |
| 100 | 63 | 76.4 | 85.2 | 93.4 | 84.7 | 86.3 | 86.2 | 86.3 | 87.5 | 88.2 | 89.5 | 93.2 | 92.9 | 95.9 | | | | 131.0 |
| 125 | 80 | 75.3 | 79.4 | 91.4 | 83.7 | 85.5 | 86.6 | 86.5 | 87.9 | 86.1 | 85.2 | 94.1 | 96.1 | 96.9 | | | | 131.7 |
| 160 | CELL41 | 78.8 | 78.4 | 91.7 | 82.0 | 82.5 | 82.9 | 83.5 | 85.0 | 86.4 | 92.0 | 95.7 | 97.1 | 99.7 | | | | 132.9 |
| 200 | NC57 | 78.8 | 78.8 | 90.5 | 82.6 | 83.4 | 84.3 | 85.2 | 87.8 | 90.5 | 93.6 | 98.1 | 102.0 | 103.8 | | | | 136.1 |
| 250 | C41 ANECH CH | 77.8 | 80.8 | 92.6 | 82.4 | 84.0 | 85.6 | 87.5 | 89.6 | 91.1 | 96.2 | 101.9 | 104.3 | 105.6 | | | | 138.5 |
| 315 | DATE 06-16-76 | 78.9 | 83.2 | 92.2 | 84.2 | 86.8 | 88.2 | 88.3 | 90.7 | 93.4 | 97.5 | 103.2 | 107.4 | 107.7 | | | | 140.6 |
| 400 | RUM CONF6HIGHFLW | 81.2 | 83.0 | 95.2 | 85.2 | 86.8 | 88.0 | 89.3 | 92.5 | 95.0 | 100.5 | 106.2 | 109.2 | 109.0 | | | | 142.6 |
| 500 | TAPE X06460 | 82.0 | 83.5 | 94.8 | 85.8 | 87.2 | 89.0 | 90.4 | 92.8 | 95.8 | 101.6 | 107.1 | 109.7 | 108.8 | | | | 143.1 |
| 630 | BAR 29.3 HG | 82.9 | 85.4 | 95.9 | 86.7 | 89.0 | 89.6 | 91.5 | 94.2 | 97.6 | 102.0 | 106.9 | 110.1 | 109.1 | | | | 143.4 |
| 800 | (98375. N/42) | 85.1 | 86.7 | 97.2 | 88.2 | 89.3 | 91.4 | 92.5 | 96.2 | 98.7 | 103.5 | 106.9 | 109.1 | 108.9 | | | | 143.4 |
| 1000 | TAMB 60. DEG F | 86.7 | 88.5 | 99.5 | 90.0 | 90.9 | 92.2 | 93.6 | 96.8 | 99.0 | 103.3 | 105.8 | 107.2 | 107.7 | | | | 142.6 |
| 1250 | (289. DEG K) | 86.5 | 87.8 | 100.3 | 89.4 | 91.2 | 93.1 | 93.9 | 97.4 | 100.7 | 103.5 | 104.0 | 105.1 | 105.4 | | | | 142.2 |
| 1600 | TRFT 58. DEG F | 86.4 | 88.9 | 99.4 | 91.0 | 92.1 | 93.7 | 94.6 | 97.0 | 100.7 | 103.5 | 104.0 | 105.1 | 105.4 | | | | 141.8 |
| 2000 | HACT11.66 GM/M3 | 86.9 | 88.7 | 100.5 | 90.5 | 91.8 | 93.5 | 95.3 | 98.0 | 101.0 | 103.3 | 103.0 | 103.9 | 104.0 | | | | 141.5 |
| 2500 | (.01166 KG/M3) | 86.5 | 89.3 | 100.3 | 90.6 | 92.7 | 93.8 | 94.9 | 98.4 | 101.6 | 102.2 | 101.6 | 103.3 | 102.3 | | | | 141.0 |
| 3150 | 87.2 | 89.5 | 101.1 | 91.6 | 93.2 | 94.0 | 95.9 | 98.6 | 101.8 | 102.9 | 101.8 | 103.3 | 102.5 | | | | 141.0 | |
| 4000 | FREQ. SHIFT | 86.8 | 88.3 | 100.1 | 90.9 | 91.9 | 93.8 | 94.9 | 99.4 | 100.8 | 102.4 | 100.6 | 102.0 | 101.1 | | | | 140.8 |
| 5000 | JET | 85.9 | 88.4 | 100.0 | 91.5 | 92.6 | 94.7 | 96.1 | 99.7 | 101.0 | 101.8 | 101.0 | 101.9 | 101.4 | | | | 140.9 |
| 6300 | DIAMETER RATIO | 85.2 | 88.3 | 99.8 | 91.1 | 93.2 | 95.0 | 97.2 | 99.3 | 101.3 | 101.9 | 100.9 | 102.3 | 102.8 | | | | 141.3 |
| 8000 | DF/DM 1 | 84.7 | 86.6 | 98.9 | 91.1 | 92.7 | 94.6 | 97.2 | 99.1 | 100.9 | 102.3 | 100.9 | 103.3 | 102.8 | | | | 141.5 |
| 10000 | | 83.1 | 87.3 | 99.9 | 90.3 | 93.2 | 93.3 | 96.4 | 99.3 | 100.9 | 101.3 | 100.7 | 104.0 | 103.8 | | | | 141.9 |
| 12500 | | 80.8 | 86.1 | 98.9 | 90.4 | 92.5 | 93.1 | 95.2 | 97.1 | 99.2 | 100.1 | 100.0 | 103.6 | 102.1 | | | | 141.3 |
| 16000 | | 79.6 | 86.2 | 98.6 | 89.8 | 92.1 | 91.9 | 95.1 | 95.8 | 98.6 | 98.4 | 98.7 | 101.7 | 100.2 | | | | 140.9 |
| 20000 | | 77.1 | 83.4 | 97.6 | 88.2 | 90.9 | 90.0 | 93.2 | 92.8 | 95.3 | 94.9 | 95.7 | 99.4 | 98.1 | | | | 139.6 |
| 25000 | | 74.5 | 81.8 | 93.9 | 86.7 | 88.2 | 87.7 | 88.7 | 90.1 | 93.4 | 91.6 | 93.7 | 94.2 | 94.5 | | | | 137.8 |
| 31500 | | 72.5 | 79.4 | 92.8 | 85.0 | 87.0 | 86.2 | 87.9 | 87.5 | 89.8 | 88.9 | 90.1 | 94.3 | 92.0 | | | | 138.1 |
| 40000 | | 66.9 | 74.0 | 88.7 | 81.4 | 82.3 | 82.0 | 83.8 | 82.9 | 85.5 | 85.6 | 86.4 | 90.3 | 88.3 | | | | 137.3 |
| 50000 | | 60.5 | 66.7 | 81.7 | 74.5 | 75.1 | 75.6 | 76.4 | 75.9 | 79.2 | 79.2 | 81.3 | 82.3 | 81.2 | | | | 134.8 |
| 63000 | | 53.7 | 58.9 | 75.3 | 68.0 | 68.3 | 68.4 | 68.5 | 69.0 | 72.1 | 74.0 | 75.0 | 75.0 | 74.5 | | | | 134.4 |
| 80000 | | 47.9 | 52.7 | 69.1 | 63.0 | 62.7 | 63.3 | 64.0 | 61.7 | 66.9 | 71.6 | 70.0 | 69.8 | 68.6 | | | | 138.7 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 97.8 | 103.4 | 112.1 | 103.0 | 104.7 | 105.9 | 107.6 | 110.3 | 112.6 | 114.8 | 116.7 | 119.1 | 118.9 | | | | 155.2 |
| PNDB | | 110.7 | 113.1 | 124.5 | 115.2 | 116.8 | 118.1 | 119.7 | 122.8 | 125.2 | 127.0 | 127.5 | 129.3 | 129.0 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 646 TEST POINT 646 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-125cm²(19.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA | PRUC. DATE - MONTH 8 DAY 26 HR. 22.1 | | | | | |
|--------------------|---|-------|-------|-------|-------|-------|
| | DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS | | | | | |
| RDG. NO. | 50. | 60. | 70. | 80. | 90. | 100. |
| 50 | 80.6 | 85.6 | 90.6 | 95.6 | 100.6 | 105.6 |
| 63 | 81.7 | 85.9 | 90.9 | 95.9 | 100.9 | 105.9 |
| 80 | 83.9 | 85.7 | 90.7 | 95.7 | 100.7 | 105.7 |
| 100 | 84.6 | 86.3 | 91.3 | 96.3 | 101.3 | 106.3 |
| 125 | 85.6 | 88.1 | 93.1 | 98.1 | 103.1 | 108.1 |
| 160 | 87.9 | 89.4 | 94.4 | 99.4 | 104.4 | 109.4 |
| 200 | 89.5 | 91.2 | 96.2 | 101.2 | 106.2 | 111.2 |
| 250 | 89.3 | 90.6 | 95.6 | 100.6 | 105.6 | 110.6 |
| 315 | 89.2 | 91.7 | 102.2 | 107.2 | 112.2 | 117.2 |
| 400 | 89.7 | 91.5 | 103.3 | 105.3 | 107.3 | 109.3 |
| 500 | 89.3 | 92.1 | 103.1 | 105.1 | 107.1 | 109.1 |
| 630 | 90.1 | 92.4 | 103.9 | 106.4 | 108.9 | 111.4 |
| 800 | 89.6 | 91.2 | 103.0 | 105.0 | 107.0 | 109.0 |
| 1000 | 88.8 | 91.3 | 102.9 | 104.9 | 106.9 | 108.9 |
| 1250 | 88.2 | 91.3 | 102.8 | 104.8 | 106.8 | 108.8 |
| 1600 | 87.9 | 89.7 | 102.0 | 104.0 | 106.0 | 108.0 |
| 2000 | 86.5 | 90.6 | 103.2 | 105.2 | 107.2 | 109.2 |
| 2500 | 84.5 | 89.8 | 102.7 | 104.7 | 106.7 | 108.7 |
| 3150 | 83.9 | 90.4 | 102.9 | 104.9 | 106.9 | 108.9 |
| 4000 | 82.1 | 88.4 | 102.5 | 104.5 | 106.5 | 108.5 |
| 5000 | 80.7 | 88.0 | 100.2 | 102.2 | 104.2 | 106.2 |
| 6300 | 80.4 | 87.2 | 100.7 | 102.7 | 104.7 | 106.7 |
| 8000 | 77.1 | 84.2 | 98.9 | 101.6 | 104.3 | 107.0 |
| 10000 | 73.8 | 79.9 | 94.9 | 97.7 | 100.5 | 103.2 |
| 12500 | 71.4 | 76.6 | 93.1 | 95.7 | 98.3 | 100.9 |
| 16000 | 71.9 | 76.7 | 93.2 | 95.8 | 98.4 | 101.0 |
| OVERALL CALCULATED | 100.6 | 103.5 | 115.4 | 127.7 | 131.6 | 135.5 |
| PND8 | 110.7 | 115.4 | 127.7 | 131.6 | 135.5 | 139.4 |

*

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
 C C4C 45.7m(150ft.) ARC FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | 70 PERCENT REL. HUM. DAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|--------|--------|--------|--------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | (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) | (2.97) | (3.15) | (3.33) | (3.51) | (3.69) | (3.87) | (4.05) | (4.23) | (4.41) | (4.59) | (4.77) | (4.95) | (5.13) | (5.31) | (5.49) | (5.67) | (5.85) | (6.03) | (6.21) | (6.39) | (6.57) | (6.75) | (6.93) | (7.11) | (7.29) | (7.47) | (7.65) | (7.83) | (8.01) | (8.19) | (8.37) | (8.55) | (8.73) | (8.91) | (9.09) | (9.27) | (9.45) | (9.63) | (9.81) | (9.99) | (10.17) | (10.35) | (10.53) | (10.71) | (10.89) | (11.07) | (11.25) | (11.43) | (11.61) | (11.79) | (11.97) | (12.15) | (12.33) | (12.51) | (12.69) | (12.87) | (13.05) | (13.23) | (13.41) | (13.59) | (13.77) | (13.95) | (14.13) | (14.31) | (14.49) | (14.67) | (14.85) | (15.03) | (15.21) | (15.39) | (15.57) | (15.75) | (15.93) | (16.11) | (16.29) | (16.47) | (16.65) | (16.83) | (17.01) | (17.19) | (17.37) | (17.55) | (17.73) | (17.91) | (18.09) | (18.27) | (18.45) | (18.63) | (18.81) | (18.99) | (19.17) | (19.35) | (19.53) | (19.71) | (19.89) | (20.07) | (20.25) | (20.43) | (20.61) | (20.79) | (20.97) | (21.15) | (21.33) | (21.51) | (21.69) | (21.87) | (22.05) | (22.23) | (22.41) | (22.59) | (22.77) | (22.95) | (23.13) | (23.31) | (23.49) | (23.67) | (23.85) | (24.03) | (24.21) | (24.39) | (24.57) | (24.75) | (24.93) | (25.11) | (25.29) | (25.47) | (25.65) | (25.83) | (26.01) | (26.19) | (26.37) | (26.55) | (26.73) | (26.91) | (27.09) | (27.27) | (27.45) | (27.63) | (27.81) | (27.99) | (28.17) | (28.35) | (28.53) | (28.71) | (28.89) | (29.07) | (29.25) | (29.43) | (29.61) | (29.79) | (29.97) | (30.15) | (30.33) | (30.51) | (30.69) | (30.87) | (31.05) | (31.23) | (31.41) | (31.59) | (31.77) | (31.95) | (32.13) | (32.31) | (32.49) | (32.67) | (32.85) | (33.03) | (33.21) | (33.39) | (33.57) | (33.75) | (33.93) | (34.11) | (34.29) | (34.47) | (34.65) | (34.83) | (35.01) | (35.19) | (35.37) | (35.55) | (35.73) | (35.91) | (36.09) | (36.27) | (36.45) | (36.63) | (36.81) | (36.99) | (37.17) | (37.35) | (37.53) | (37.71) | (37.89) | (38.07) | (38.25) | (38.43) | (38.61) | (38.79) | (38.97) | (39.15) | (39.33) | (39.51) | (39.69) | (39.87) | (40.05) | (40.23) | (40.41) | (40.59) | (40.77) | (40.95) | (41.13) | (41.31) | (41.49) | (41.67) | (41.85) | (42.03) | (42.21) | (42.39) | (42.57) | (42.75) | (42.93) | (43.11) | (43.29) | (43.47) | (43.65) | (43.83) | (44.01) | (44.19) | (44.37) | (44.55) | (44.73) | (44.91) | (45.09) | (45.27) | (45.45) | (45.63) | (45.81) | (45.99) | (46.17) | (46.35) | (46.53) | (46.71) | (46.89) | (47.07) | (47.25) | (47.43) | (47.61) | (47.79) | (47.97) | (48.15) | (48.33) | (48.51) | (48.69) | (48.87) | (49.05) | (49.23) | (49.41) | (49.59) | (49.77) | (49.95) | (50.13) | (50.31) | (50.49) | (50.67) | (50.85) | (51.03) | (51.21) | (51.39) | (51.57) | (51.75) | (51.93) | (52.11) | (52.29) | (52.47) | (52.65) | (52.83) | (53.01) | (53.19) | (53.37) | (53.55) | (53.73) | (53.91) | (54.09) | (54.27) | (54.45) | (54.63) | (54.81) | (54.99) | (55.17) | (55.35) | (55.53) | (55.71) | (55.89) | (56.07) | (56.25) | (56.43) | (56.61) | (56.79) | (56.97) | (57.15) | (57.33) | (57.51) | (57.69) | (57.87) | (58.05) | (58.23) | (58.41) | (58.59) | (58.77) | (58.95) | (59.13) | (59.31) | (59.49) | (59.67) | (59.85) | (60.03) | (60.21) | (60.39) | (60.57) | (60.75) | (60.93) | (61.11) | (61.29) | (61.47) | (61.65) | (61.83) | (62.01) | (62.19) | (62.37) | (62.55) | (62.73) | (62.91) | (63.09) | (63.27) | (63.45) | (63.63) | (63.81) | (63.99) | (64.17) | (64.35) | (64.53) | (64.71) | (64.89) | (65.07) | (65.25) | (65.43) | (65.61) | (65.79) | (65.97) | (66.15) | (66.33) | (66.51) | (66.69) | (66.87) | (67.05) | (67.23) | (67.41) | (67.59) | (67.77) | (67.95) | (68.13) | (68.31) | (68.49) | (68.67) | (68.85) | (69.03) | (69.21) | (69.39) | (69.57) | (69.75) | (69.93) | (70.11) | (70.29) | (70.47) | (70.65) | (70.83) | (71.01) | (71.19) | (71.37) | (71.55) | (71.73) | (71.91) | (72.09) | (72.27) | (72.45) | (72.63) | (72.81) | (72.99) | (73.17) | (73.35) | (73.53) | (73.71) | (73.89) | (74.07) | (74.25) | (74.43) | (74.61) | (74.79) | (74.97) | (75.15) | (75.33) | (75.51) | (75.69) | (75.87) | (76.05) | (76.23) | (76.41) | (76.59) | (76.77) | (76.95) | (77.13) | (77.31) | (77.49) | (77.67) | (77.85) | (78.03) | (78.21) | (78.39) | (78.57) | (78.75) | (78.93) | (79.11) | (79.29) | (79.47) | (79.65) | (79.83) | (80.01) | (80.19) | (80.37) | (80.55) | (80.73) | (80.91) | (81.09) | (81.27) | (81.45) | (81.63) | (81.81) | (81.99) | (82.17) | (82.35) | (82.53) | (82.71) | (82.89) | (83.07) | (83.25) | (83.43) | (83.61) | (83.79) | (83.97) | (84.15) | (84.33) | (84.51) | (84.69) | (84.87) | (85.05) | (85.23) | (85.41) | (85.59) | (85.77) | (85.95) | (86.13) | (86.31) | (86.49) | (86.67) | (86.85) | (87.03) | (87.21) | (87.39) | (87.57) | (87.75) | (87.93) | (88.11) | (88.29) | (88.47) | (88.65) | (88.83) | (89.01) | (89.19) | (89.37) | (89.55) | (89.73) | (89.91) | (90.09) | (90.27) | (90.45) | (90.63) | (90.81) | (90.99) | (91.17) | (91.35) | (91.53) | (91.71) | (91.89) | (92.07) | (92.25) | (92.43) | (92.61) | (92.79) | (92.97) | (93.15) | (93.33) | (93.51) | (93.69) | (93.87) | (94.05) | (94.23) | (94.41) | (94.59) | (94.77) | (94.95) | (95.13) | (95.31) | (95.49) | (95.67) | (95.85) | (96.03) | (96.21) | (96.39) | (96.57) | (96.75) | (96.93) | (97.11) | (97.29) | (97.47) | (97.65) | (97.83) | (98.01) | (98.19) | (98.37) | (98.55) | (98.73) | (98.91) | (99.09) | (99.27) | (99.45) | (99.63) | (99.81) | (100.0) |

NO EGA
 SIDELINE 2400. FT.
 (731.52 M)
 NFA
 (1. RPM
 (C. RAD/SEC)
 NFK
 (0. RAD/SEC)
 NFD
 (7500. RPM
 (785. RAD/SEC)
 AIRFLOW RATIO
 WF/WM 5.15
 800
 1000
 1250
 1600
 2000
 2500
 3150
 4000
 5000
 6300
 8000
 10000
 12500
 16000
 OVERALL CALCULATED
 PND8

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6
 TEST POINT 646
 ACOUSTIC RANGE 731.5m(2400ft.)
 SIDELINE FULL-.33m²(513in²)
 SIZE

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | PWL | | | | | | | | | |
|--|--------|-----|-----|-----|-----|-----|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|
| | | | | | | | 90. | 100. | 110. | 120. | 130. | 140. | | 150. | 160. | U. | 0. | 0. | | | | |
| 50 | | | | | | | (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.) |
| 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 | | | | | | | | | | | | | | | | | | | | | | |
| 25000 | | | | | | | | | | | | | | | | | | | | | | |
| 31500 | | | | | | | | | | | | | | | | | | | | | | |
| 40000 | | | | | | | | | | | | | | | | | | | | | | |
| 50000 | | | | | | | | | | | | | | | | | | | | | | |
| 63000 | | | | | | | | | | | | | | | | | | | | | | |
| 80000 | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | | | | |
| PNDB 121.0 121.7 132.5 122.3 123.2 124.8 124.9 127.7 130.8 133.0 136.7 139.0 137.1 | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 647 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-125cm²(19.4in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 22.1
 ANGLES FROM INLET IN DEGREES (AND RADIAN) (0. 0. 0. 0.) (0. 0. 0.) (0. 0.) (0.) (0.)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 84.1 | 87.8 | 91.1 | 89.6 | 90.7 | 93.6 | 95.0 | 96.6 | 98.3 | 103.4 | 109.6 | 112.6 | 113.3 | 157.8 |
| RDG. NO. 0. | 86.2 | 90.7 | 99.4 | 92.0 | 94.6 | 96.2 | 96.1 | 97.5 | 100.4 | 105.8 | 111.5 | 115.4 | 115.7 | 161.1 |
| RADIAL 150. FT. | 87.9 | 90.0 | 101.7 | 93.4 | 93.4 | 97.6 | 97.2 | 100.1 | 103.1 | 110.6 | 116.1 | 118.3 | 117.1 | 163.1 |
| (46. M) | 90.4 | 92.2 | 102.9 | 94.2 | 95.8 | 97.9 | 98.6 | 101.2 | 104.9 | 111.0 | 116.7 | 118.9 | 117.9 | 163.8 |
| VEHICLE CELL41 | 92.9 | 93.4 | 104.2 | 95.5 | 97.3 | 99.9 | 99.8 | 102.7 | 106.4 | 111.7 | 117.2 | 119.6 | 118.9 | 164.0 |
| CONFIG NC57 | 96.2 | 97.5 | 106.3 | 98.0 | 98.4 | 100.5 | 100.6 | 103.8 | 107.0 | 111.8 | 116.5 | 119.0 | 119.2 | 154.5 |
| LOC C41 ANECH CH | 93.3 | 96.8 | 107.8 | 97.9 | 99.0 | 101.3 | 101.5 | 105.1 | 108.1 | 111.7 | 115.4 | 119.8 | 118.6 | 164.5 |
| DATE 06-16-76 | 96.7 | 97.5 | 107.2 | 98.0 | 99.1 | 102.0 | 102.1 | 104.5 | 108.7 | 111.8 | 115.5 | 119.4 | 119.2 | 164.4 |
| RUN CONF6HIGHFLW | 100.0 | 99.2 | 110.0 | 98.8 | 100.1 | 101.7 | 102.6 | 105.8 | 109.3 | 111.8 | 115.0 | 119.2 | 117.7 | 164.0 |
| TAPE X06470 | 101.8 | 100.9 | 110.6 | 100.4 | 101.0 | 102.1 | 103.0 | 105.9 | 109.9 | 111.2 | 115.2 | 118.3 | 116.1 | 164.0 |
| BAR 29.3 MG | 102.3 | 102.4 | 112.4 | 101.9 | 102.8 | 103.6 | 103.3 | 106.9 | 110.6 | 112.0 | 115.7 | 117.8 | 114.4 | 164.3 |
| (98975. N/M2) | 102.1 | 102.4 | 113.2 | 102.2 | 102.6 | 103.7 | 103.8 | 107.2 | 110.0 | 111.6 | 114.5 | 115.4 | 112.2 | 163.4 |
| TAMB 62. DEG F | 100.0 | 101.6 | 113.1 | 103.1 | 103.5 | 104.1 | 104.5 | 107.1 | 109.9 | 111.0 | 114.2 | 114.6 | 111.3 | 163.2 |
| (290. DEG K) | 1250 | 96.2 | 100.3 | 112.0 | 102.6 | 103.9 | 106.0 | 106.1 | 107.8 | 110.5 | 110.9 | 113.6 | 113.7 | 163.0 |
| TWET 60. DEG F | 97.9 | 99.7 | 111.3 | 102.5 | 104.1 | 104.6 | 106.5 | 108.4 | 109.7 | 110.6 | 111.0 | 112.1 | 109.1 | 162.2 |
| (289. DEG K) | 2000 | 95.8 | 99.9 | 111.2 | 102.7 | 104.3 | 104.6 | 106.5 | 108.4 | 109.7 | 110.6 | 111.0 | 109.1 | 161.4 |
| HACT12.52 GM/H3 | 94.2 | 98.0 | 111.1 | 102.3 | 103.6 | 104.7 | 105.9 | 107.2 | 108.6 | 108.8 | 109.2 | 110.8 | 108.2 | 160.9 |
| (.01252 KG/MS) | 3150 | 92.6 | 97.4 | 110.1 | 102.0 | 103.5 | 104.4 | 105.8 | 106.1 | 108.3 | 107.6 | 108.4 | 110.2 | 160.9 |
| FREQ. SHIFT | 4000 | 89.4 | 95.1 | 108.5 | 100.1 | 103.6 | 105.9 | 105.1 | 103.9 | 106.2 | 105.5 | 105.6 | 108.1 | 159.8 |
| JET 7 | 5000 | 94.4 | 106.6 | 98.9 | 101.3 | 101.6 | 101.3 | 102.2 | 104.8 | 103.5 | 105.8 | 104.9 | 104.2 | 158.2 |
| DIAMETER RATIO | 6300 | 88.0 | 93.6 | 107.0 | 99.2 | 101.7 | 100.7 | 102.4 | 101.5 | 103.5 | 102.3 | 104.6 | 106.5 | 158.2 |
| DF/DM 5.15 | 8000 | 85.5 | 91.8 | 105.9 | 98.2 | 99.5 | 99.8 | 100.2 | 99.4 | 101.7 | 102.5 | 103.6 | 104.0 | 157.7 |
| 12500 | 82.1 | 87.7 | 103.1 | 96.2 | 95.5 | 97.1 | 95.4 | 95.6 | 98.7 | 98.9 | 102.3 | 100.6 | 99.2 | 156.0 |
| 16030 | 81.6 | 85.6 | 102.2 | 96.4 | 95.6 | 93.9 | 95.3 | 93.7 | 93.7 | 97.2 | 98.8 | 101.9 | 98.8 | 156.2 |
| OVERALL CALCULATED | 110.4 | 111.6 | 123.0 | 113.7 | 115.0 | 116.6 | 116.8 | 118.7 | 121.4 | 123.6 | 127.4 | 129.9 | 128.7 | 161.2 |
| PH08 | 119.8 | 122.9 | 134.9 | 126.3 | 127.8 | 129.6 | 129.7 | 130.8 | 133.3 | 134.1 | 136.2 | 138.1 | 136.0 | 176.5 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 647 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| RO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (0.70) | (0.67) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| 50 | 55.9 | 61.2 | 73.6 | 64.8 | 68.3 | 69.3 | 70.6 | 71.8 | 72.8 | 76.8 | 81.4 | 82.1 | 79.4 |
| 80 | 59.6 | 64.0 | 73.9 | 67.1 | 70.2 | 71.9 | 71.7 | 72.6 | 74.9 | 79.1 | 83.2 | 84.9 | 81.7 |
| 100 | 60.1 | 65.5 | 75.6 | 67.6 | 69.4 | 73.4 | 71.4 | 74.1 | 76.1 | 81.6 | 85.9 | 86.5 | 82.0 |
| 125 | 61.8 | 65.2 | 77.1 | 69.1 | 71.2 | 73.4 | 74.2 | 76.1 | 79.1 | 84.0 | 88.1 | 87.9 | 83.3 |
| 160 | 64.1 | 66.3 | 78.2 | 70.3 | 72.6 | 75.3 | 75.1 | 77.5 | 80.5 | 84.7 | 88.5 | 88.5 | 83.9 |
| 200 | 67.3 | 70.2 | 81.9 | 72.7 | 73.5 | 75.8 | 75.8 | 78.5 | 80.9 | 84.6 | 87.6 | 87.5 | 83.9 |
| 250 | 66.1 | 69.4 | 81.6 | 72.4 | 73.9 | 76.4 | 76.4 | 79.6 | 81.8 | 84.2 | 86.2 | 86.0 | 82.7 |
| 315 | 67.1 | 69.7 | 80.7 | 72.3 | 73.8 | 76.8 | 76.8 | 78.8 | 82.2 | 84.0 | 85.9 | 87.2 | 82.7 |
| 400 | 70.0 | 71.1 | 83.2 | 72.8 | 74.6 | 76.4 | 77.1 | 79.8 | 82.4 | 83.7 | 85.1 | 86.4 | 80.4 |
| AIRFLOW RATIO | 500 | 71.3 | 82.3 | 74.1 | 75.1 | 76.4 | 77.1 | 79.6 | 82.7 | 82.7 | 84.7 | 84.9 | 77.7 |
| WF/WM 5.15 | 630 | 71.1 | 84.7 | 75.1 | 76.4 | 77.5 | 76.9 | 80.1 | 82.9 | 82.8 | 84.5 | 83.5 | 74.7 |
| VEHICLE | 800 | 70.0 | 84.8 | 74.8 | 75.7 | 77.0 | 76.9 | 79.8 | 81.6 | 81.7 | 82.4 | 79.9 | 70.8 |
| CONFIG | 1000 | 66.6 | 70.8 | 83.9 | 75.0 | 75.9 | 76.9 | 79.0 | 80.7 | 80.2 | 81.0 | 77.0 | 67.8 |
| LOC C41 ANECHO CH | 1250 | 63.6 | 68.3 | 81.9 | 73.5 | 75.4 | 77.8 | 77.7 | 80.4 | 79.0 | 79.0 | 75.0 | 66.4 |
| DATE 06-16-76 | 1600 | 61.4 | 66.2 | 79.7 | 72.2 | 74.4 | 78.8 | 76.9 | 77.7 | 78.4 | 77.9 | 76.1 | 59.9 |
| RUM CONF6HIGHFLW | 2000 | 57.0 | 64.4 | 77.9 | 70.8 | 73.1 | 73.7 | 75.4 | 76.5 | 76.4 | 75.2 | 67.9 | 54.9 |
| TAPE X06470 | 2500 | 52.1 | 59.8 | 75.4 | 68.2 | 70.3 | 71.7 | 72.6 | 73.1 | 72.9 | 70.6 | 62.2 | 47.6 |
| FAN TIP SPEED | 3150 | 45.1 | 54.7 | 70.4 | 64.2 | 66.8 | 68.0 | 69.1 | 68.3 | 68.6 | 64.8 | 60.9 | 36.6 |
| | 4000 | 34.9 | 45.6 | 62.9 | 56.9 | 61.7 | 64.5 | 63.2 | 60.7 | 60.6 | 56.0 | 50.0 | 19.7 |
| | 5000 | 29.1 | 41.1 | 57.5 | 52.5 | 56.5 | 57.2 | 56.5 | 55.9 | 55.8 | 50.1 | 45.5 | 32.7 |
| | 6300 | 13.9 | 28.8 | 47.9 | 43.6 | 48.1 | 47.6 | 48.7 | 45.9 | 44.4 | 37.5 | 30.5 | 16.5 |
| | 8000 | 9.4 | 31.4 | 28.4 | 32.4 | 33.5 | 33.1 | 29.7 | 27.1 | 20.2 | 8.4 | | |
| | 10000 | 7.1 | 6.7 | 9.6 | 12.4 | 10.5 | 6.2 | | | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 78.9 | 81.5 | 93.6 | 84.6 | 86.2 | 88.3 | 88.3 | 90.4 | 92.7 | 94.6 | 97.3 | 97.6 | 92.7 |
| PNDB | 84.3 | 87.8 | 100.8 | 92.8 | 95.0 | 97.5 | 97.1 | 98.5 | 99.6 | 100.0 | 101.1 | 100.8 | 94.5 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6477 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

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

PROC. DATE - MONTH 8 DAY 26 HR. 22.0
 0. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. PUL
 FREQ. (0.70)(0.37)(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)

| RDG. NO. | NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 0. | 0. | 0. | PUL |
|---------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|-----|
| 100 | 63 | 91.7 | 99.2 | 91.0 | 92.8 | 92.4 | 92.8 | 94.2 | 94.7 | 95.5 | 99.7 | 100.6 | 103.2 | 136.2 | | | | |
| 125 | 81.6 | 25.6 | 97.4 | 89.4 | 91.2 | 93.1 | 93.2 | 94.4 | 92.4 | 91.9 | 101.1 | 103.6 | 104.9 | 138.8 | | | | |
| 160 | 81.9 | 84.2 | 98.4 | 98.0 | 88.3 | 89.2 | 89.3 | 91.5 | 92.4 | 97.7 | 102.2 | 104.1 | 106.9 | 159.6 | | | | |
| 200 | 84.5 | 84.8 | 96.3 | 83.3 | 85.2 | 90.5 | 91.7 | 97.0 | 97.0 | 100.4 | 104.8 | 107.5 | 111.5 | 143.6 | | | | |
| 250 | 82.8 | 87.1 | 99.1 | 83.4 | 90.2 | 91.1 | 93.7 | 95.9 | 97.3 | 102.2 | 108.9 | 111.5 | 113.1 | 143.6 | | | | |
| 315 | 85.7 | 90.2 | 98.2 | 90.2 | 92.8 | 93.7 | 94.3 | 97.2 | 99.4 | 105.0 | 110.7 | 114.9 | 115.2 | 148.0 | | | | |
| 400 | 87.4 | 89.2 | 101.2 | 90.7 | 92.3 | 94.0 | 94.8 | 98.2 | 101.2 | 108.0 | 114.0 | 116.7 | 116.0 | 150.0 | | | | |
| 500 | 88.5 | 89.3 | 100.5 | 91.6 | 92.7 | 94.5 | 95.7 | 98.8 | 102.5 | 109.6 | 115.6 | 118.0 | 116.3 | 151.1 | | | | |
| 630 | 89.9 | 91.4 | 102.1 | 92.9 | 94.8 | 95.4 | 97.3 | 100.4 | 103.6 | 110.5 | 116.4 | 119.1 | 117.1 | 152.1 | | | | |
| 800 | 91.9 | 92.4 | 103.4 | 94.7 | 96.0 | 97.2 | 98.3 | 101.7 | 105.9 | 111.2 | 117.7 | 120.1 | 117.7 | 153.2 | | | | |
| 1000 | 95.2 | 96.2 | 107.0 | 97.0 | 97.6 | 98.7 | 99.4 | 103.0 | 106.5 | 110.8 | 117.3 | 119.4 | 118.5 | 153.1 | | | | |
| 1250 | 96.5 | 97.3 | 108.6 | 97.4 | 98.7 | 100.1 | 101.2 | 104.1 | 107.3 | 110.9 | 116.6 | 120.8 | 118.3 | 153.6 | | | | |
| 1600 | 103.9 | 101.7 | 109.9 | 98.7 | 98.6 | 100.9 | 101.1 | 103.5 | 108.4 | 111.3 | 116.2 | 120.9 | 116.4 | 153.8 | | | | |
| 2000 | 104.7 | 104.0 | 114.7 | 102.8 | 101.1 | 100.7 | 101.6 | 104.8 | 108.5 | 111.3 | 116.3 | 119.9 | 116.0 | 153.8 | | | | |
| 2500 | 104.8 | 105.3 | 115.1 | 105.1 | 104.5 | 103.1 | 102.5 | 105.4 | 109.3 | 110.2 | 115.1 | 118.3 | 114.1 | 153.3 | | | | |
| 3150 | 103.5 | 104.5 | 116.1 | 105.8 | 106.2 | 105.5 | 104.4 | 106.3 | 109.6 | 111.1 | 117.1 | 117.5 | 112.3 | 153.8 | | | | |
| 4000 | 101.0 | 102.1 | 113.6 | 103.9 | 104.9 | 104.6 | 105.7 | 107.4 | 109.3 | 111.2 | 115.9 | 115.0 | 112.1 | 152.4 | | | | |
| 5000 | 100.1 | 101.9 | 112.2 | 103.5 | 103.8 | 104.7 | 105.8 | 108.5 | 109.7 | 110.8 | 114.5 | 114.7 | 109.4 | 151.8 | | | | |
| 6300 | 99.7 | 101.0 | 112.3 | 102.6 | 103.7 | 105.0 | 106.2 | 108.3 | 110.3 | 110.9 | 113.4 | 113.3 | 108.8 | 151.3 | | | | |
| 8000 | 98.5 | 99.8 | 110.9 | 102.4 | 104.0 | 104.8 | 106.5 | 108.4 | 109.9 | 111.5 | 112.7 | 111.8 | 107.6 | 150.9 | | | | |
| 10000 | 96.6 | 100.0 | 110.6 | 101.8 | 104.1 | 103.8 | 105.9 | 107.6 | 109.6 | 110.5 | 111.2 | 111.0 | 106.5 | 149.5 | | | | |
| 12500 | 94.5 | 97.8 | 109.2 | 100.9 | 102.4 | 102.5 | 104.4 | 105.5 | 106.9 | 108.6 | 109.5 | 108.6 | 105.0 | 149.1 | | | | |
| 16000 | 93.1 | 96.6 | 108.1 | 100.5 | 102.0 | 101.6 | 103.5 | 104.0 | 107.1 | 106.6 | 107.4 | 107.4 | 103.9 | 147.6 | | | | |
| 20000 | 90.3 | 93.9 | 105.8 | 97.6 | 100.7 | 100.0 | 102.2 | 101.2 | 103.5 | 103.3 | 104.2 | 105.1 | 101.0 | 146.0 | | | | |
| 25000 | 87.7 | 91.7 | 102.8 | 94.2 | 96.6 | 96.6 | 98.5 | 101.4 | 100.6 | 98.5 | 98.8 | 101.2 | 95.9 | 146.4 | | | | |
| 31500 | 85.5 | 90.0 | 102.2 | 92.7 | 95.4 | 94.4 | 96.3 | 95.9 | 98.5 | 98.1 | 99.8 | 101.2 | 95.9 | 145.0 | | | | |
| 40000 | 81.1 | 85.2 | 98.6 | 88.8 | 90.7 | 90.2 | 91.9 | 91.8 | 94.3 | 96.0 | 98.3 | 98.1 | 91.5 | 146.1 | | | | |
| 50000 | 75.4 | 79.3 | 93.3 | 83.6 | 83.2 | 83.8 | 84.8 | 84.8 | 89.1 | 90.6 | 93.7 | 90.7 | 86.1 | 146.1 | | | | |
| 63000 | 69.8 | 73.1 | 88.2 | 77.6 | 77.1 | 77.3 | 77.4 | 79.7 | 82.7 | 86.6 | 89.1 | 85.1 | 77.3 | 146.1 | | | | |
| 80000 | 66.8 | 69.3 | 85.7 | 73.1 | 72.1 | 72.9 | 73.9 | 72.8 | 79.0 | 83.5 | 85.1 | 82.2 | 72.5 | 152.0 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL -CALCULATED | | | | | | | | | | | | | | | | | | |
| 112.3 | 113.0 | 123.8 | 114.0 | 114.8 | 115.0 | 116.1 | 118.1 | 120.6 | 123.0 | 127.8 | 130.1 | 127.8 | 127.8 | 165.3 | | | | |
| 125.3 | 126.1 | 157.2 | 127.2 | 127.7 | 127.7 | 128.3 | 130.5 | 132.9 | 135.2 | 140.4 | 141.7 | 138.5 | 138.5 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 648 TEST POINT 648 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-125cm²(19.4in²)

| NO | EQA | RDG. HO. | G. | RADIAL 15' FT. | (45. M) | VEHICLE CELL 41 | CONFIG. MC37 | LUC C41 ANECH CH | DATE 06-16-76 | RUN CONF6HIGHFLW | TAPE X06680 | JAR 29.5 HG | (S8942. N/M2) | TAMS 63. DEG F | (290. DEG K) | TWET 60. DEG F | (289. DEG K) | HACT12.38 GM/M3 | (0.1238 KG/M3) | FREQ. SHIFT | JET 7 | DIAMETER RATIO | DF/DM 5.15 | PRJC. DATE - MONTH 8 DAY 26 HR. 22.1 | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------|----------|-------|----------------|---------|-----------------|--------------|------------------|---------------|------------------|-------------|-------------|---------------|----------------|--------------|----------------|--------------|-----------------|----------------|-------------|-------|---|------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | | | | | | | | | | | | | | | | | | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | 210. | 220. | 230. | 240. | | |
| | | | | | | | | | | | | | | | | | | | | | | FREQ. (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) | (2.97) | (3.15) | (3.33) | (3.51) | (3.69) | (3.87) | (4.05) | (4.23) | (4.41) | (4.59) |
| 50 | 85.6 | 89.8 | 101.8 | 91.1 | 93.0 | 93.8 | 96.5 | 98.6 | 100.6 | 104.9 | 111.6 | 114.3 | 115.8 | 117.9 | 119.9 | 120.4 | 121.9 | 122.9 | 123.9 | 124.9 | 125.9 | 126.9 | 127.9 | 128.9 | | | | | | | | | | | | | | | | | | | | |
| 63 | 88.4 | 92.9 | 100.9 | 93.0 | 95.0 | 96.4 | 97.1 | 100.0 | 102.2 | 107.8 | 113.5 | 117.7 | 117.9 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | | | | | | | | | | | | | | | | | | | |
| 80 | 90.2 | 92.0 | 104.0 | 93.5 | 95.1 | 96.7 | 97.6 | 101.0 | 104.0 | 110.8 | 116.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | 119.4 | 118.7 | | | | | | | | | | | | | | | | | | | |
| 100 | 91.0 | 92.1 | 103.3 | 94.3 | 95.4 | 97.3 | 98.4 | 101.6 | 105.3 | 112.4 | 118.3 | 120.8 | 119.1 | 119.9 | 119.9 | 120.4 | 121.9 | 122.9 | 123.9 | 124.9 | 125.9 | 126.9 | 127.9 | 128.9 | 129.9 | | | | | | | | | | | | | | | | | | | |
| 125 | 92.6 | 94.2 | 104.9 | 95.7 | 97.5 | 98.2 | 100.0 | 103.2 | 106.4 | 113.2 | 119.2 | 121.9 | 119.9 | 120.4 | 121.9 | 122.9 | 123.9 | 124.9 | 125.9 | 126.9 | 127.9 | 128.9 | 129.9 | 130.9 | 131.9 | | | | | | | | | | | | | | | | | | | |
| 160 | 94.6 | 95.2 | 106.2 | 97.5 | 98.8 | 99.9 | 101.1 | 104.5 | 108.7 | 114.0 | 120.5 | 122.9 | 120.4 | 120.4 | 121.9 | 122.9 | 123.9 | 124.9 | 125.9 | 126.9 | 127.9 | 128.9 | 129.9 | 130.9 | 131.9 | | | | | | | | | | | | | | | | | | | |
| 200 | 96.0 | 99.0 | 109.8 | 99.3 | 100.4 | 101.5 | 102.1 | 105.8 | 109.3 | 113.6 | 120.0 | 122.2 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | | | | | | | | | | | | | | | | | | | |
| 250 | 99.3 | 100.1 | 111.3 | 100.1 | 101.5 | 102.8 | 104.0 | 106.9 | 110.1 | 113.7 | 119.4 | 123.6 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | | | | | | | | | | | | | | | | | | | |
| 315 | 106.7 | 104.5 | 112.7 | 101.5 | 101.3 | 103.7 | 103.8 | 106.2 | 111.2 | 114.0 | 119.0 | 123.7 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | | | | | | | | | | | | | | | | | | | |
| 400 | 107.5 | 106.8 | 117.5 | 105.5 | 103.9 | 103.5 | 104.4 | 107.5 | 111.3 | 114.1 | 119.0 | 122.7 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | | | | | | | | | | | | | | | | | | | |
| 500 | 107.6 | 108.1 | 117.9 | 107.9 | 107.3 | 105.9 | 105.3 | 108.2 | 112.1 | 113.0 | 118.9 | 121.1 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | 116.9 | | | | | | | | | | | | | | | | | | | |
| 630 | 106.3 | 107.4 | 118.9 | 108.7 | 109.0 | 108.4 | 107.3 | 109.2 | 112.4 | 114.0 | 119.9 | 120.3 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | | | | | | | | | | | | | | | | | | | |
| 800 | 103.9 | 104.9 | 116.5 | 106.7 | 107.8 | 107.4 | 106.6 | 108.7 | 111.4 | 112.6 | 113.7 | 117.4 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | | | | | | | | | | | | | | | | | | | |
| 1000 | 103.0 | 104.8 | 115.1 | 106.4 | 106.6 | 108.0 | 109.1 | 111.3 | 113.3 | 113.9 | 116.3 | 116.2 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | | | | | | | | | | | | | | | | | | | |
| 1250 | 102.7 | 104.0 | 115.3 | 105.9 | 106.6 | 108.0 | 109.1 | 111.3 | 113.3 | 113.9 | 116.3 | 116.2 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | | | | | | | | | | | | | | | | | | | |
| 1600 | 101.6 | 103.0 | 114.0 | 105.5 | 107.1 | 108.0 | 109.6 | 111.5 | 113.0 | 114.7 | 115.8 | 115.0 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | | | | | | | | | | | | | | | | | | | |
| 2000 | 100.0 | 103.4 | 114.0 | 105.2 | 107.5 | 107.1 | 109.3 | 111.0 | 113.0 | 113.9 | 114.5 | 114.4 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 | | | | | | | | | | | | | | | | | | | |
| 2500 | 98.3 | 101.5 | 112.9 | 104.6 | 106.2 | 106.3 | 108.2 | 109.3 | 110.6 | 112.3 | 113.2 | 112.3 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | | | | | | | | | | | | | | | | | | | |
| 3150 | 97.4 | 100.9 | 112.3 | 104.8 | 106.5 | 105.9 | 107.8 | 108.3 | 111.3 | 110.8 | 111.7 | 111.7 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | | | | | | | | | | | | | | | | | | | |
| 4000 | 95.3 | 98.9 | 110.7 | 102.6 | 105.6 | 105.0 | 107.1 | 106.2 | 108.5 | 108.3 | 109.2 | 110.1 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | | | | | | | | | | | | | | | | | | | |
| 5000 | 93.9 | 98.0 | 109.1 | 100.4 | 102.9 | 102.9 | 103.9 | 104.8 | 107.6 | 106.3 | 106.4 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | 103.7 | | | | | | | | | | | | | | | | | | | |
| 6300 | 93.3 | 97.9 | 110.1 | 100.5 | 103.3 | 102.2 | 104.2 | 103.8 | 106.3 | 105.9 | 107.6 | 109.0 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | | | | | | | | | | | | | | | | | | | |
| 8000 | 91.3 | 95.4 | 108.8 | 99.0 | 100.9 | 100.4 | 102.1 | 102.0 | 104.5 | 106.2 | 108.5 | 108.3 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | | | | | | | | | | | | | | | | | | | |
| 10000 | 88.7 | 92.6 | 106.6 | 96.8 | 96.4 | 97.0 | 98.0 | 98.0 | 102.3 | 103.6 | 106.0 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | | | | | | | | | | | | | | | | | | | |
| 12500 | 87.6 | 90.8 | 105.9 | 95.3 | 94.9 | 95.0 | 95.1 | 97.4 | 100.4 | 104.3 | 106.8 | 102.8 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | | | | | | | | | | | | | | | | | | | |
| 16000 | 90.8 | 93.4 | 109.8 | 97.2 | 96.1 | 97.0 | 97.9 | 96.9 | 103.1 | 107.5 | 109.1 | 106.3 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 115.3 | 116.1 | 127.0 | 117.5 | 118.3 | 119.5 | 121.3 | 123.9 | 126.2 | 130.8 | 133.0 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | | | | | | | | | | | | | | | | | | | |
| PNOB | 124.2 | 126.7 | 137.9 | 129.2 | 130.6 | 130.5 | 132.0 | 133.2 | 135.9 | 137.1 | 139.8 | 140.6 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | | | | | | | | | | | | | | | | | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 648 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--------------------|--------------------------|------|-------|------|--|------|------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 57.4 | 63.2 | 76.3 | 68.6 | 69.6 | 72.1 | 73.8 | 75.1 | 78.3 | 83.4 | 83.9 | 81.9 |
| 63 | 60.2 | 66.3 | 75.4 | 68.1 | 71.2 | 72.2 | 75.1 | 76.6 | 81.1 | 85.2 | 87.1 | 63.9 |
| 80 | 61.9 | 65.2 | 78.3 | 68.6 | 70.6 | 72.4 | 73.1 | 76.1 | 78.3 | 84.1 | 88.4 | 84.5 |
| 100 | 62.6 | 65.2 | 77.0 | 69.4 | 70.9 | 73.9 | 73.9 | 76.6 | 79.6 | 85.5 | 89.9 | 90.0 |
| 125 | 64.1 | 67.2 | 79.1 | 70.6 | 72.9 | 73.7 | 75.4 | 78.1 | 80.6 | 86.3 | 90.6 | 85.3 |
| 160 | 65.9 | 68.1 | 80.2 | 72.3 | 74.1 | 75.3 | 76.3 | 79.3 | 82.7 | 86.9 | 91.7 | 85.4 |
| 200 | 69.0 | 71.7 | 83.7 | 74.5 | 75.5 | 76.8 | 77.3 | 80.5 | 83.2 | 86.3 | 91.1 | 85.9 |
| 250 | 70.1 | 72.6 | 85.1 | 74.6 | 76.4 | 77.9 | 78.6 | 80.5 | 82.8 | 86.2 | 90.2 | 85.2 |
| 315 | 77.1 | 78.6 | 90.7 | 79.5 | 78.3 | 78.1 | 78.8 | 81.5 | 84.4 | 86.3 | 89.4 | 84.7 |
| 400 | 77.5 | 78.6 | 90.7 | 79.5 | 78.3 | 78.1 | 78.8 | 81.5 | 84.4 | 86.3 | 89.4 | 84.7 |
| 500 | 77.1 | 79.6 | 90.7 | 81.6 | 81.4 | 80.2 | 79.4 | 81.8 | 84.9 | 84.4 | 86.4 | 87.6 |
| 630 | 75.1 | 78.2 | 91.2 | 81.8 | 82.7 | 82.2 | 80.9 | 82.5 | 84.2 | 84.9 | 88.7 | 86.0 |
| 800 | 71.8 | 75.1 | 88.1 | 79.3 | 80.9 | 80.7 | 81.7 | 82.8 | 83.2 | 84.2 | 86.7 | 82.4 |
| 1000 | 69.6 | 74.1 | 85.9 | 78.2 | 79.2 | 80.2 | 81.2 | 83.2 | 83.2 | 82.9 | 84.2 | 80.6 |
| 1250 | 65.1 | 72.1 | 85.1 | 75.2 | 77.4 | 78.5 | 79.9 | 81.2 | 82.3 | 83.1 | 81.4 | 81.8 |
| 1600 | 61.2 | 67.9 | 80.7 | 73.3 | 76.4 | 76.2 | 78.1 | 79.0 | 79.7 | 78.4 | 75.7 | 70.2 |
| 2000 | 61.2 | 67.9 | 80.7 | 73.3 | 76.4 | 76.2 | 78.1 | 79.0 | 79.7 | 78.4 | 75.7 | 70.2 |
| 2500 | 56.1 | 63.3 | 77.1 | 70.4 | 72.9 | 73.2 | 74.9 | 75.1 | 74.9 | 74.1 | 71.1 | 63.7 |
| 3150 | 49.9 | 58.2 | 72.7 | 67.0 | 69.6 | 69.5 | 71.1 | 70.5 | 71.7 | 68.1 | 64.2 | 56.2 |
| 4000 | 39.7 | 49.4 | 65.2 | 59.4 | 63.7 | 63.5 | 65.2 | 63.0 | 62.9 | 58.8 | 53.5 | 44.1 |
| 5000 | 33.6 | 44.6 | 60.1 | 54.1 | 58.0 | 58.5 | 59.0 | 58.4 | 58.6 | 52.9 | 48.5 | 34.3 |
| 6300 | 19.3 | 33.1 | 51.0 | 45.0 | 49.6 | 49.2 | 50.5 | 48.2 | 47.3 | 41.1 | 33.0 | 19.1 |
| 8000 | | 13.0 | 34.2 | 29.3 | 33.7 | 34.1 | 35.0 | 32.3 | 30.0 | 23.8 | 13.3 | |
| 10000 | | | 10.5 | 7.4 | 10.5 | 12.3 | 12.1 | 8.6 | 6.3 | | | |
| 12500 | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 84.1 | 86.3 | 98.3 | 89.1 | 90.0 | 90.4 | 91.0 | 92.9 | 94.9 | 96.8 | 100.5 | 100.7 |
| PND8 | 89.5 | 92.7 | 105.1 | 90.3 | 98.2 | 98.6 | 99.8 | 101.1 | 102.3 | 102.7 | 104.7 | 104.1 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 648 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(5131m²) SIZE

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL | |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|------|--|
| (12. M) | | (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.) | |
| 84.1 | 92.7 | 100.7 | 91.7 | 93.5 | 93.4 | 94.3 | 95.2 | 95.7 | 97.0 | 100.4 | 101.1 | 103.9 | 139.2 | | | | | | |
| 82.8 | 86.4 | 97.9 | 90.2 | 92.5 | 93.4 | 93.7 | 94.9 | 93.6 | 92.9 | 101.6 | 104.1 | 105.6 | 139.4 | | | | | | |
| 125 | 82.9 | 85.2 | 99.7 | 89.0 | 90.4 | 90.0 | 92.5 | 93.9 | 99.0 | 103.7 | 105.6 | 108.4 | 141.0 | | | | | | |
| 160 | 85.5 | 85.8 | 97.8 | 89.8 | 90.4 | 91.5 | 93.2 | 95.6 | 97.8 | 101.6 | 106.1 | 111.0 | 144.9 | | | | | | |
| 200 | 85.5 | 87.3 | 99.3 | 89.9 | 90.5 | 92.6 | 94.7 | 96.9 | 98.3 | 103.7 | 110.4 | 114.3 | 146.9 | | | | | | |
| 250 | 84.1 | 87.3 | 99.3 | 89.9 | 90.5 | 92.6 | 94.7 | 96.9 | 98.3 | 103.7 | 110.4 | 114.3 | 149.1 | | | | | | |
| 315 | 85.7 | 90.9 | 99.4 | 91.5 | 94.1 | 94.7 | 95.6 | 97.7 | 100.4 | 106.3 | 112.2 | 115.9 | 151.0 | | | | | | |
| 400 | 86.4 | 90.5 | 102.2 | 91.3 | 93.3 | 94.7 | 95.6 | 98.8 | 102.2 | 109.0 | 115.0 | 117.9 | 152.3 | | | | | | |
| 500 | 89.3 | 90.3 | 101.8 | 92.3 | 93.9 | 95.8 | 96.9 | 99.6 | 103.3 | 110.9 | 116.8 | 119.2 | 153.2 | | | | | | |
| 630 | 90.4 | 92.1 | 103.1 | 93.9 | 95.0 | 96.4 | 98.5 | 101.2 | 104.9 | 111.2 | 117.7 | 120.1 | 154.1 | | | | | | |
| 800 | 93.1 | 93.4 | 104.2 | 95.4 | 97.0 | 98.4 | 99.8 | 102.7 | 106.7 | 112.5 | 118.7 | 120.9 | 154.3 | | | | | | |
| 1000 | 96.0 | 97.0 | 108.2 | 98.3 | 98.1 | 99.5 | 100.6 | 104.0 | 107.7 | 112.3 | 118.0 | 120.7 | 154.9 | | | | | | |
| 1250 | 98.0 | 98.6 | 109.1 | 98.6 | 99.7 | 101.1 | 102.2 | 105.1 | 108.3 | 112.6 | 118.1 | 122.0 | 155.0 | | | | | | |
| 1600 | 103.6 | 102.2 | 110.7 | 100.2 | 100.1 | 101.4 | 102.3 | 105.0 | 109.2 | 113.0 | 118.5 | 121.9 | 155.8 | | | | | | |
| 2000 | 104.7 | 103.7 | 114.7 | 103.0 | 102.3 | 101.7 | 102.8 | 106.0 | 109.7 | 112.8 | 118.8 | 120.7 | 154.8 | | | | | | |
| 2500 | 104.0 | 104.6 | 115.1 | 104.6 | 105.0 | 104.3 | 103.7 | 105.9 | 110.3 | 112.7 | 118.6 | 118.8 | 154.3 | | | | | | |
| 3150 | 102.5 | 103.3 | 115.1 | 105.3 | 106.2 | 105.3 | 105.7 | 107.6 | 111.6 | 113.4 | 118.8 | 117.8 | 154.4 | | | | | | |
| 4000 | 100.8 | 101.6 | 113.1 | 102.9 | 104.2 | 103.1 | 102.2 | 104.2 | 108.4 | 111.1 | 113.2 | 117.1 | 153.2 | | | | | | |
| 5000 | 100.4 | 101.7 | 112.5 | 103.2 | 103.8 | 105.2 | 105.8 | 108.7 | 111.0 | 113.3 | 115.5 | 114.7 | 152.6 | | | | | | |
| 6300 | 99.7 | 101.0 | 111.8 | 102.8 | 104.4 | 105.0 | 106.7 | 109.6 | 111.1 | 112.9 | 114.9 | 113.7 | 152.4 | | | | | | |
| 8000 | 98.0 | 99.6 | 110.9 | 102.6 | 104.5 | 105.1 | 107.0 | 109.6 | 111.1 | 112.8 | 113.2 | 112.3 | 151.4 | | | | | | |
| 10000 | 96.9 | 99.7 | 110.3 | 102.1 | 104.1 | 104.0 | 106.6 | 108.6 | 110.8 | 111.2 | 111.6 | 111.0 | 150.3 | | | | | | |
| 12500 | 95.3 | 98.5 | 109.7 | 101.1 | 102.7 | 103.8 | 105.4 | 106.8 | 108.9 | 109.6 | 110.0 | 108.8 | 149.9 | | | | | | |
| 16000 | 93.3 | 96.9 | 108.5 | 101.0 | 102.5 | 102.4 | 105.0 | 105.3 | 108.0 | 107.8 | 108.1 | 107.4 | 148.6 | | | | | | |
| 20000 | 91.8 | 94.9 | 106.2 | 97.6 | 101.6 | 100.7 | 103.4 | 101.9 | 104.7 | 104.5 | 104.9 | 105.1 | 147.3 | | | | | | |
| 25000 | 88.6 | 92.4 | 103.5 | 95.3 | 98.3 | 97.5 | 98.8 | 99.7 | 102.6 | 101.7 | 103.0 | 100.6 | 147.4 | | | | | | |
| 31500 | 86.4 | 90.7 | 102.6 | 93.8 | 96.6 | 95.3 | 97.5 | 96.9 | 99.7 | 99.5 | 100.7 | 101.6 | 147.5 | | | | | | |
| 40000 | 81.8 | 86.1 | 99.7 | 89.7 | 91.5 | 91.1 | 93.3 | 92.9 | 96.0 | 97.6 | 98.6 | 98.3 | 146.3 | | | | | | |
| 50000 | 76.1 | 80.4 | 94.4 | 84.2 | 84.3 | 84.6 | 85.2 | 86.1 | 90.4 | 92.7 | 94.8 | 92.1 | 147.4 | | | | | | |
| 63000 | 70.7 | 74.2 | 89.3 | 78.0 | 78.2 | 78.2 | 78.2 | 80.7 | 84.5 | 88.1 | 90.2 | 86.9 | 153.2 | | | | | | |
| 80000 | 67.1 | 69.4 | 86.0 | 73.4 | 72.4 | 74.0 | 74.2 | 74.6 | 79.5 | 84.5 | 87.3 | 82.3 | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 112.1 | 112.8 | 123.7 | 114.1 | 115.2 | 115.5 | 116.9 | 119.1 | 121.9 | 124.6 | 129.3 | 131.1 | 128.8 | | | | | | |
| PND8 | 124.9 | 125.7 | 136.8 | 127.1 | 128.0 | 128.0 | 129.0 | 131.4 | 134.4 | 137.1 | 141.9 | 142.3 | 139.1 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 6 6 & 4 12.2m(40ft.) ARC MODEL-125cm²(19.4in²)

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 22.1
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| REQ. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | FREQ. (HZ) | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PHL |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|------------|---|-------|-------|-------|-----|-----|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | |
| 50 | 86.8 | 90.1 | 102.1 | 92.6 | 93.2 | 95.3 | 97.5 | 99.6 | 101.1 | 106.4 | 113.1 | 115.8 | 117.1 | 163.4 | | |
| 63 | 88.4 | 93.7 | 102.2 | 94.2 | 96.8 | 97.4 | 98.3 | 98.4 | 101.5 | 103.2 | 109.0 | 115.0 | 118.9 | 163.4 | | |
| 80 | 91.2 | 93.2 | 105.0 | 94.5 | 96.1 | 97.5 | 98.4 | 101.5 | 103.0 | 111.8 | 117.7 | 120.7 | 119.5 | 165.2 | | |
| 100 | 92.0 | 93.1 | 104.6 | 95.1 | 96.7 | 98.6 | 99.7 | 102.3 | 106.1 | 113.6 | 119.6 | 122.0 | 120.1 | 166.6 | | |
| 125 | 93.1 | 94.9 | 105.9 | 96.7 | 97.8 | 99.2 | 101.3 | 103.9 | 107.7 | 114.0 | 120.4 | 122.9 | 121.2 | 167.5 | | |
| 160 | 95.9 | 96.2 | 106.9 | 98.2 | 99.8 | 101.2 | 102.6 | 105.5 | 109.4 | 115.2 | 121.5 | 123.6 | 121.7 | 168.4 | | |
| 200 | 98.7 | 99.8 | 111.0 | 101.0 | 100.9 | 102.3 | 103.4 | 106.8 | 110.5 | 115.1 | 120.8 | 123.5 | 122.8 | 168.5 | | |
| 250 | 100.6 | 101.3 | 111.8 | 101.4 | 102.5 | 103.8 | 105.0 | 107.9 | 111.1 | 115.4 | 120.9 | 124.8 | 122.3 | 169.1 | | |
| 315 | 106.4 | 105.0 | 113.5 | 103.0 | 102.8 | 104.2 | 105.1 | 107.7 | 112.0 | 115.8 | 121.2 | 124.7 | 121.7 | 169.2 | | |
| 400 | 107.5 | 106.5 | 117.5 | 105.8 | 105.1 | 104.5 | 105.6 | 108.8 | 112.5 | 115.6 | 121.5 | 123.5 | 119.3 | 169.1 | | |
| 500 | 106.8 | 107.4 | 117.9 | 107.4 | 107.8 | 107.1 | 106.5 | 109.7 | 113.1 | 115.5 | 121.4 | 121.6 | 116.6 | 168.6 | | |
| 650 | 105.3 | 106.1 | 117.9 | 108.2 | 109.0 | 108.1 | 108.5 | 110.4 | 114.4 | 116.2 | 121.7 | 120.6 | 115.6 | 168.7 | | |
| 800 | 103.6 | 104.4 | 116.0 | 105.8 | 107.1 | 107.9 | 109.1 | 111.3 | 114.0 | 116.1 | 120.0 | 119.2 | 112.9 | 167.5 | | |
| 1000 | 103.3 | 104.6 | 115.4 | 106.1 | 106.7 | 108.1 | 108.7 | 111.6 | 113.9 | 116.2 | 118.4 | 117.6 | 112.8 | 166.8 | | |
| 1250 | 102.7 | 104.0 | 114.8 | 105.8 | 107.4 | 108.0 | 109.6 | 112.6 | 114.1 | 115.9 | 117.8 | 116.7 | 111.8 | 166.0 | | |
| 1600 | 101.1 | 102.7 | 114.0 | 105.8 | 107.6 | 108.2 | 110.1 | 112.8 | 114.3 | 115.9 | 116.3 | 115.4 | 110.7 | 166.2 | | |
| 2000 | 100.3 | 103.1 | 114.2 | 105.5 | 107.5 | 107.4 | 110.0 | 112.0 | 114.2 | 114.6 | 115.0 | 114.4 | 110.1 | 165.7 | | |
| 2500 | 99.0 | 102.2 | 113.4 | 104.8 | 106.4 | 107.5 | 109.1 | 110.5 | 112.6 | 113.3 | 113.7 | 112.5 | 109.0 | 164.6 | | |
| 3150 | 97.6 | 101.1 | 112.8 | 105.3 | 106.8 | 106.6 | 109.3 | 109.6 | 112.3 | 112.1 | 112.4 | 111.7 | 108.4 | 164.1 | | |
| 4000 | 96.8 | 99.8 | 111.2 | 102.6 | 106.6 | 105.7 | 108.3 | 106.9 | 109.7 | 109.5 | 109.9 | 110.1 | 107.2 | 162.6 | | |
| 5000 | 94.9 | 98.7 | 109.8 | 101.6 | 104.6 | 103.8 | 105.1 | 106.0 | 108.8 | 108.0 | 109.3 | 106.9 | 105.9 | 161.2 | | |
| 6300 | 94.2 | 98.6 | 110.5 | 101.7 | 104.5 | 103.2 | 105.4 | 104.7 | 107.5 | 107.3 | 108.6 | 109.5 | 104.9 | 161.7 | | |
| 8000 | 92.0 | 96.3 | 109.9 | 99.9 | 101.7 | 101.3 | 103.5 | 103.1 | 106.2 | 107.8 | 108.8 | 108.5 | 104.3 | 161.7 | | |
| 10000 | 89.3 | 93.7 | 107.6 | 97.4 | 97.5 | 97.9 | 98.4 | 99.4 | 103.7 | 105.9 | 108.0 | 105.3 | 102.4 | 160.6 | | |
| 12500 | 88.4 | 91.9 | 107.0 | 95.7 | 95.9 | 95.9 | 98.4 | 98.4 | 102.2 | 105.8 | 107.9 | 104.6 | 101.9 | 161.7 | | |
| 16000 | 91.2 | 93.4 | 110.1 | 97.5 | 96.4 | 98.0 | 98.2 | 98.7 | 103.6 | 108.5 | 111.4 | 106.3 | 106.8 | 167.4 | | |
| OVERALL CALCULATED | 115.1 | 116.0 | 127.1 | 117.4 | 118.7 | 118.9 | 120.4 | 122.4 | 125.1 | 127.7 | 132.2 | 133.9 | 131.4 | 180.5 | | |
| PND# | 124.0 | 126.9 | 138.3 | 129.6 | 131.2 | 131.2 | 133.2 | 134.3 | 137.1 | 138.4 | 140.8 | 141.3 | 138.1 | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 684 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| NO EGA | SIDE LINE 2400. FT. | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--------|---------------------|-------|---------------------------------|------|-------|------|------|------|---|-------|-------|-------|-------|-------|------|------|
| | | | 4J. | 50. | 63. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| 53 | | 50 | 58.6 | 63.5 | 67.0 | 76.0 | 80.0 | 84.3 | 88.0 | 91.0 | 93.1 | 94.8 | 95.6 | 95.8 | 95.4 | 93.2 |
| 30 | | 80 | 60.2 | 67.0 | 76.0 | 80.0 | 84.3 | 88.0 | 91.0 | 93.1 | 94.8 | 95.6 | 95.8 | 95.4 | 93.2 | 84.9 |
| 100 | | 100 | 63.0 | 66.5 | 79.3 | 67.0 | 73.1 | 73.2 | 73.9 | 75.6 | 77.6 | 82.3 | 86.7 | 86.1 | 86.7 | 86.1 |
| 125 | | 125 | 64.6 | 68.0 | 80.1 | 71.5 | 73.2 | 74.1 | 75.1 | 77.4 | 80.3 | 86.8 | 91.1 | 91.2 | 85.7 | 85.7 |
| 160 | | 160 | 67.1 | 69.1 | 81.0 | 73.0 | 75.1 | 76.6 | 77.8 | 80.3 | 83.5 | 89.2 | 92.7 | 92.5 | 86.7 | 86.7 |
| 200 | | 200 | 69.6 | 72.5 | 84.9 | 75.7 | 76.0 | 77.5 | 78.5 | 81.5 | 84.4 | 87.8 | 91.3 | 92.0 | 87.4 | 87.4 |
| 250 | | 250 | 71.6 | 73.9 | 85.6 | 75.9 | 77.4 | 78.9 | 79.9 | 82.4 | 84.8 | 88.0 | 91.7 | 93.0 | 86.5 | 86.5 |
| 315 | | 315 | 70.9 | 77.2 | 86.9 | 77.3 | 79.6 | 79.1 | 80.1 | 82.8 | 85.7 | 87.5 | 91.6 | 90.7 | 81.9 | 81.9 |
| 400 | | 400 | 77.5 | 78.4 | 90.7 | 79.8 | 79.6 | 80.1 | 80.1 | 83.3 | 85.9 | 86.9 | 90.9 | 88.1 | 78.2 | 78.2 |
| 500 | | 500 | 76.3 | 78.8 | 90.7 | 81.1 | 81.9 | 82.0 | 82.2 | 83.6 | 86.7 | 87.1 | 90.5 | 86.2 | 75.9 | 75.9 |
| 630 | | 630 | 74.1 | 77.0 | 87.6 | 78.3 | 80.2 | 81.2 | 82.2 | 83.8 | 85.6 | 86.2 | 87.9 | 83.6 | 71.5 | 71.5 |
| 800 | | 800 | 71.5 | 74.6 | 87.6 | 78.0 | 79.2 | 80.7 | 81.2 | 83.5 | 84.7 | 85.4 | 85.2 | 80.6 | 69.4 | 69.4 |
| 1000 | | 1000 | 70.1 | 73.3 | 86.2 | 78.0 | 79.0 | 79.8 | 81.2 | 83.5 | 83.9 | 84.0 | 83.3 | 78.0 | 65.7 | 65.7 |
| 1250 | | 1250 | 68.1 | 72.1 | 84.6 | 76.7 | 77.9 | 78.8 | 80.4 | 82.4 | 82.7 | 82.4 | 79.8 | 74.2 | 60.9 | 60.9 |
| 1600 | | 1600 | 64.9 | 69.2 | 82.4 | 75.4 | 76.4 | 76.5 | 78.9 | 80.0 | 80.9 | 79.2 | 76.2 | 70.2 | 55.9 | 55.9 |
| 2000 | | 2000 | 61.5 | 67.7 | 80.9 | 73.3 | 76.4 | 75.8 | 75.8 | 78.9 | 79.9 | 75.1 | 71.6 | 64.0 | 48.3 | 48.3 |
| 2500 | | 2500 | 56.8 | 64.0 | 77.6 | 70.7 | 73.1 | 74.5 | 75.8 | 78.3 | 78.9 | 75.1 | 71.6 | 64.0 | 48.3 | 48.3 |
| 3150 | | 3150 | 50.1 | 58.4 | 73.1 | 67.5 | 70.1 | 70.2 | 72.6 | 71.8 | 72.6 | 69.3 | 64.9 | 56.1 | 37.4 | 37.4 |
| 4000 | | 4000 | 41.2 | 50.4 | 65.6 | 59.4 | 64.7 | 64.2 | 66.5 | 63.7 | 64.1 | 60.0 | 54.2 | 44.0 | 20.7 | 20.7 |
| 5000 | | 5000 | 34.6 | 45.3 | 60.8 | 55.3 | 59.7 | 59.4 | 60.2 | 59.6 | 59.8 | 54.6 | 49.0 | 34.7 | 10.5 | 10.5 |
| 6300 | | 6300 | 20.2 | 33.8 | 51.4 | 46.1 | 50.8 | 50.1 | 51.7 | 49.1 | 48.4 | 42.5 | 34.5 | 19.5 | 19.5 | 19.5 |
| 8000 | | 8000 | 13.9 | 13.9 | 35.4 | 30.2 | 34.6 | 35.0 | 36.4 | 33.4 | 31.6 | 25.4 | 13.7 | 13.7 | 13.7 | 13.7 |
| 10000 | | 10000 | 11.0 | 11.0 | 8.0 | 11.7 | 13.1 | 12.5 | 9.9 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 12500 | | 12500 | 8.0 | 8.0 | 8.0 | 11.7 | 13.1 | 12.5 | 9.9 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 16000 | | 16000 | 5.9 | 86.1 | 98.2 | 89.1 | 90.4 | 91.0 | 91.9 | 93.9 | 96.1 | 98.4 | 102.0 | 101.7 | 95.7 | 95.7 |
| PND# | | PND# | 89.6 | 92.5 | 105.1 | 96.4 | 98.6 | 99.2 | 100.7 | 102.2 | 103.6 | 104.2 | 106.4 | 105.0 | 97.2 | 97.2 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 684 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 7 HR. 13.5
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| RDG. NO. | NO EGA | FREQ. | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | 84.2 | 87.0 | 50.7 | 89.1 | 91.7 |
|--------------------|------------------|-------|---|-------------|-------------|-------------|-------------|-------|-------|-------|-------|-------|
| | | | 4C. (C.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.) (0.) | 50. (110.) | 60. (115.) | 70. (120.) | 80. (125.) | | | | | |
| 100 | 0 | 50 | 72.1 | 81.9 | 72.9 | 81.0 | 82.3 | 83.7 | 84.2 | 87.0 | 89.1 | 91.7 |
| 125 | 0 | 60 | 72.1 | 76.6 | 77.9 | 79.9 | 82.2 | 84.2 | 82.9 | 90.4 | 91.6 | 92.1 |
| 160 | CELL 41 | 80 | 72.4 | 75.7 | 77.9 | 78.2 | 79.8 | 82.0 | 83.9 | 89.0 | 91.9 | 92.6 |
| 200 | NCSB | 100 | 75.3 | 76.3 | 77.6 | 80.4 | 81.9 | 84.6 | 87.0 | 90.9 | 94.3 | 97.5 |
| 250 | ANECH CH | 125 | 75.6 | 78.1 | 79.6 | 81.0 | 82.3 | 85.9 | 88.1 | 93.2 | 97.9 | 99.8 |
| 315 | DATE C6-16-76 | 150 | 76.4 | 80.2 | 79.9 | 82.5 | 84.2 | 85.6 | 87.7 | 90.4 | 95.5 | 102.6 |
| 400 | RUN CONF6VELDEPN | 180 | 78.2 | 80.5 | 82.5 | 84.3 | 85.2 | 86.1 | 89.2 | 92.2 | 97.3 | 102.6 |
| 500 | TAPE X6107C | 200 | 79.3 | 80.5 | 82.3 | 83.3 | 86.7 | 89.8 | 92.5 | 98.1 | 101.5 | 102.5 |
| 630 | BAR 29.4 HG | 250 | 79.9 | 82.4 | 83.4 | 84.7 | 86.0 | 87.1 | 88.3 | 91.2 | 94.6 | 99.0 |
| 800 | (92712. N/M2) | 300 | 80.4 | 83.2 | 84.7 | 85.7 | 87.3 | 88.4 | 89.8 | 92.4 | 96.2 | 100.9 |
| 1000 | TAMB. 57. DEG F | 350 | 81.9 | 84.5 | 86.7 | 87.3 | 88.4 | 90.0 | 91.1 | 94.0 | 96.7 | 101.3 |
| 1250 | (287. DEG K) | 400 | 81.9 | 84.6 | 87.6 | 88.7 | 91.1 | 91.7 | 94.9 | 98.6 | 101.6 | 100.8 |
| 1600 | TWET 55. DEG F | 450 | 81.9 | 85.4 | 86.7 | 88.2 | 90.0 | 91.7 | 92.5 | 95.5 | 99.2 | 102.0 |
| 2000 | (286. DEG K) | 500 | 81.5 | 85.2 | 88.0 | 90.6 | 92.0 | 93.6 | 96.5 | 100.0 | 101.5 | 101.4 |
| 2500 | HACTIC. 60 GM/M3 | 550 | 81.5 | 85.1 | 88.6 | 89.1 | 90.9 | 92.3 | 94.2 | 97.6 | 101.8 | 101.7 |
| 3150 | (.01060 KG/M3) | 600 | 82.0 | 86.3 | 89.0 | 90.6 | 92.2 | 93.3 | 95.2 | 98.3 | 102.5 | 102.0 |
| 4000 | FREQ. SHIFT | 650 | 82.0 | 85.6 | 89.3 | 89.9 | 91.9 | 93.8 | 95.9 | 99.9 | 102.1 | 103.2 |
| 5000 | JET | 700 | 82.1 | 85.7 | 89.2 | 91.2 | 92.8 | 94.7 | 96.8 | 100.7 | 102.7 | 103.1 |
| 6300 | DIAPHRAGM RATIO | 800 | 82.2 | 86.3 | 90.1 | 91.6 | 94.7 | 96.8 | 99.8 | 102.1 | 103.1 | 103.8 |
| 8000 | DF/DH 1.0 | 900 | 82.6 | 86.1 | 89.9 | 92.4 | 95.7 | 98.1 | 101.2 | 103.2 | 102.9 | 103.6 |
| 10000 | | 1000 | 81.9 | 87.5 | 90.1 | 92.6 | 97.2 | 98.0 | 101.4 | 103.4 | 102.6 | 102.6 |
| 12500 | | 1250 | 81.1 | 85.9 | 90.0 | 92.5 | 95.0 | 97.1 | 100.5 | 101.6 | 102.0 | 102.3 |
| 16000 | | 1600 | 80.7 | 86.2 | 89.9 | 92.9 | 94.9 | 96.0 | 99.9 | 100.7 | 101.8 | 102.9 |
| 20000 | | 2000 | 79.0 | 84.5 | 88.4 | 90.3 | 94.3 | 94.1 | 98.1 | 99.4 | 100.7 | 99.5 |
| 25000 | | 2500 | 75.8 | 81.9 | 85.3 | 88.1 | 91.1 | 91.6 | 92.3 | 93.5 | 95.4 | 92.8 |
| 31500 | | 3150 | 73.2 | 79.6 | 83.5 | 86.2 | 89.4 | 92.1 | 91.5 | 92.8 | 90.2 | 91.4 |
| 40000 | | 4000 | 68.4 | 74.3 | 80.0 | 82.0 | 84.0 | 85.3 | 87.0 | 87.2 | 88.5 | 87.7 |
| 50000 | | 5000 | 61.3 | 66.5 | 72.8 | 76.0 | 77.7 | 79.5 | 80.0 | 81.8 | 81.9 | 82.7 |
| 63000 | | 6300 | 54.2 | 59.0 | 65.7 | 68.9 | 69.1 | 70.3 | 71.1 | 73.7 | 76.3 | 77.4 |
| 80000 | | 8000 | 48.2 | 52.6 | 60.1 | 63.4 | 63.1 | 64.7 | 67.4 | 67.8 | 70.3 | 72.4 |
| OVERALL MEASURED | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | |
| | | | 94.2 | 98.2 | 101.2 | 102.9 | 105.5 | 107.0 | 109.7 | 111.6 | 113.1 | 114.1 |
| PNDB | | | 106.3 | 110.1 | 112.9 | 114.2 | 116.2 | 118.0 | 120.1 | 122.9 | 125.3 | 126.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 2 TEST POINT 6107 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-125cm²(19.4in²)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | O. | O. | O. | PWL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|-------|
| 50 | 78.3 | 80.8 | 82.3 | 82.1 | 83.7 | 85.1 | 87.0 | 88.6 | 90.2 | 95.9 | 100.6 | 102.1 | 102.6 | | | | 147.9 |
| 63 | 79.2 | 82.9 | 82.7 | 85.2 | 87.1 | 87.7 | 88.3 | 90.5 | 93.2 | 98.3 | 102.2 | 105.4 | 104.9 | | | | 150.6 |
| 80 | 80.9 | 83.2 | 85.2 | 85.5 | 87.1 | 88.0 | 88.9 | 92.0 | 95.0 | 100.0 | 104.2 | 105.9 | 105.2 | | | | 151.5 |
| 100 | 82.0 | 83.3 | 85.1 | 86.1 | 87.9 | 89.0 | 89.4 | 92.6 | 95.3 | 100.9 | 104.3 | 105.3 | 104.5 | | | | 151.6 |
| 125 | 82.6 | 85.1 | 86.2 | 87.4 | 88.3 | 89.9 | 91.0 | 93.9 | 97.4 | 101.7 | 103.7 | 104.1 | 101.6 | | | | 151.0 |
| 150 | 83.1 | 85.9 | 87.4 | 88.5 | 90.1 | 91.2 | 92.6 | 95.2 | 98.9 | 103.5 | 103.9 | 103.6 | 101.4 | | | | 151.6 |
| 200 | 84.7 | 87.2 | 89.5 | 90.0 | 91.1 | 92.7 | 93.9 | 96.8 | 99.1 | 103.6 | 103.8 | 102.5 | 100.7 | | | | 151.7 |
| 250 | 84.3 | 87.3 | 90.3 | 90.4 | 91.5 | 93.8 | 94.5 | 97.6 | 101.3 | 104.4 | 103.6 | 101.3 | 101.3 | | | | 152.6 |
| 315 | 84.7 | 88.2 | 89.5 | 91.0 | 92.8 | 94.4 | 95.3 | 98.2 | 102.0 | 104.8 | 104.2 | 104.2 | 101.4 | | | | 153.0 |
| 400 | 84.7 | 88.0 | 90.8 | 91.5 | 93.4 | 94.7 | 96.4 | 99.3 | 102.8 | 104.3 | 104.0 | 104.5 | 101.5 | | | | 153.2 |
| 500 | 84.3 | 87.9 | 91.4 | 91.9 | 93.7 | 95.1 | 97.0 | 100.4 | 104.6 | 104.5 | 104.4 | 104.8 | 101.9 | | | | 154.0 |
| 630 | 84.3 | 89.1 | 91.9 | 93.4 | 95.0 | 96.1 | 98.0 | 101.2 | 105.4 | 105.7 | 105.4 | 106.1 | 103.1 | | | | 155.0 |
| 800 | 84.9 | 88.4 | 92.2 | 92.7 | 94.8 | 96.7 | 98.8 | 102.7 | 105.0 | 106.1 | 105.3 | 106.2 | 103.4 | | | | 155.3 |
| 1000 | 85.0 | 88.6 | 92.1 | 94.1 | 95.7 | 97.6 | 99.7 | 103.6 | 105.6 | 106.0 | 106.7 | 107.6 | 105.3 | | | | 156.2 |
| 1250 | 85.2 | 89.3 | 93.1 | 94.6 | 97.7 | 99.8 | 102.4 | 105.1 | 106.1 | 105.9 | 107.6 | 109.0 | 105.5 | | | | 157.2 |
| 1600 | 85.9 | 89.2 | 93.1 | 95.6 | 98.9 | 101.2 | 104.4 | 106.3 | 106.1 | 106.9 | 107.4 | 109.0 | 105.7 | | | | 157.9 |
| 2000 | 85.3 | 90.9 | 93.5 | 96.0 | 100.6 | 101.4 | 104.8 | 106.8 | 106.0 | 105.4 | 106.8 | 107.9 | 105.7 | | | | 157.8 |
| 2500 | 84.8 | 89.6 | 93.7 | 96.2 | 98.7 | 100.8 | 104.2 | 105.3 | 104.5 | 104.6 | 105.6 | 106.6 | 105.6 | | | | 156.8 |
| 3150 | 85.0 | 90.5 | 94.2 | 97.1 | 99.2 | 100.3 | 104.2 | 103.7 | 105.0 | 103.7 | 104.1 | 106.3 | 105.0 | | | | 156.9 |
| 4000 | 83.9 | 89.5 | 93.4 | 95.3 | 99.3 | 99.1 | 103.0 | 101.4 | 102.7 | 101.0 | 104.3 | 103.9 | 103.9 | | | | 155.2 |
| 5000 | 82.1 | 88.2 | 91.6 | 94.4 | 97.4 | 97.8 | 98.6 | 99.8 | 99.8 | 99.1 | 101.6 | 101.1 | 101.4 | | | | 153.4 |
| 6300 | 81.0 | 87.4 | 91.4 | 94.1 | 97.1 | 97.3 | 100.0 | 99.3 | 100.7 | 98.1 | 99.2 | 102.6 | 100.3 | | | | 153.6 |
| 8000 | 78.6 | 84.5 | 90.2 | 92.2 | 94.2 | 95.5 | 97.2 | 97.4 | 98.7 | 97.9 | 98.4 | 100.2 | 98.8 | | | | 152.6 |
| 10000 | 74.5 | 79.7 | 86.0 | 89.3 | 89.6 | 90.9 | 92.7 | 93.2 | 95.1 | 95.1 | 96.0 | 96.7 | 94.7 | | | | 150.2 |
| 12500 | 71.9 | 76.7 | 83.5 | 86.6 | 86.8 | 88.0 | 88.8 | 91.4 | 94.0 | 93.9 | 95.2 | 93.6 | 92.0 | | | | 150.0 |
| 16000 | 72.2 | 76.6 | 84.1 | 87.5 | 87.1 | 88.7 | 91.4 | 91.9 | 94.4 | 96.4 | 97.2 | 93.3 | 94.0 | | | | 154.3 |
| OVERALL CALCULATED | 97.4 | 101.5 | 104.8 | 106.8 | 109.4 | 110.7 | 113.5 | 115.1 | 116.6 | 117.3 | 118.2 | 119.2 | 117.2 | | | | 168.6 |
| PRDS | 109.7 | 114.5 | 118.0 | 120.3 | 122.7 | 123.9 | 126.9 | 127.8 | 129.1 | 128.9 | 129.8 | 131.1 | 129.4 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6107 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL SIZE (513m²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| NO EGA
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 |
|----------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | FREQ. | 40.0 | 50.0 | | | | | | | | | | |
| 50 | (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) |
| 63 | 50.1 | 54.2 | 56.8 | 57.3 | 59.3 | 60.8 | 62.6 | 63.8 | 65.3 | 67.6 | 71.6 | 74.0 | 70.9 |
| 80 | 50.3 | 56.3 | 57.1 | 60.4 | 62.7 | 63.4 | 63.9 | 65.6 | 67.6 | 71.6 | 74.0 | 74.9 | 70.9 |
| 100 | 52.6 | 56.5 | 59.3 | 61.1 | 63.4 | 64.6 | 64.9 | 67.6 | 69.6 | 74.0 | 75.9 | 74.5 | 70.2 |
| 125 | 54.1 | 58.2 | 60.4 | 62.4 | 64.2 | 65.4 | 66.4 | 68.9 | 71.6 | 74.8 | 75.1 | 73.2 | 67.0 |
| 160 | 54.4 | 58.8 | 61.5 | 63.3 | 65.3 | 66.6 | 67.8 | 70.0 | 73.0 | 76.4 | 75.2 | 72.5 | 66.4 |
| 200 | 55.8 | 60.0 | 63.4 | 64.7 | 66.3 | 68.0 | 69.0 | 71.5 | 73.4 | 76.3 | 74.8 | 71.0 | 65.4 |
| 250 | 55.1 | 59.9 | 64.1 | 64.9 | 66.4 | 68.9 | 69.4 | 72.1 | 75.1 | 76.9 | 75.2 | 71.8 | 65.5 |
| 315 | 55.1 | 60.4 | 62.9 | 65.3 | 67.6 | 69.3 | 70.1 | 72.5 | 75.4 | 77.0 | 74.7 | 71.9 | 64.9 |
| 400 | 54.7 | 59.9 | 63.9 | 65.5 | 67.8 | 69.4 | 70.8 | 73.3 | 75.9 | 76.2 | 74.0 | 71.7 | 64.1 |
| 500 | 53.8 | 59.3 | 64.1 | 65.5 | 67.9 | 69.4 | 71.1 | 74.0 | 77.4 | 75.9 | 73.9 | 71.4 | 63.5 |
| 630 | 53.6 | 60.0 | 64.2 | 66.6 | 68.7 | 70.0 | 71.7 | 74.3 | 77.7 | 76.6 | 74.2 | 71.7 | 63.4 |
| 800 | 52.8 | 58.6 | 63.5 | 65.3 | 67.9 | 70.0 | 71.9 | 75.3 | 76.6 | 76.2 | 73.2 | 70.6 | 62.0 |
| 1000 | 51.9 | 57.8 | 62.9 | 66.0 | 68.2 | 70.2 | 72.2 | 75.5 | 76.4 | 75.2 | 73.5 | 70.6 | 61.9 |
| 1250 | 50.7 | 57.4 | 62.9 | 65.5 | 69.2 | 71.5 | 74.0 | 76.0 | 75.9 | 74.0 | 73.1 | 70.3 | 59.4 |
| 1600 | 49.4 | 55.7 | 61.5 | 65.2 | 69.2 | 71.8 | 74.7 | 75.9 | 76.5 | 73.4 | 70.9 | 67.8 | 55.9 |
| 2000 | 46.5 | 55.5 | 60.2 | 64.1 | 69.4 | 70.5 | 73.7 | 74.8 | 72.7 | 70.0 | 68.0 | 63.7 | 51.4 |
| 2500 | 42.7 | 51.3 | 58.0 | 62.0 | 65.4 | 67.8 | 70.9 | 71.2 | 68.2 | 66.2 | 63.4 | 58.0 | 44.9 |
| TAPE | 3150 | 37.4 | 47.8 | 54.5 | 59.4 | 62.4 | 63.9 | 67.4 | 65.9 | 65.3 | 61.0 | 56.5 | 50.8 |
| FAR TIP SPEED | 4000 | 28.3 | 40.1 | 47.8 | 52.1 | 57.4 | 57.7 | 61.1 | 58.2 | 57.1 | 51.5 | 46.5 | 38.2 |
| .FT/SEC | 5000 | 21.8 | 34.8 | 42.6 | 48.0 | 52.5 | 53.4 | 53.7 | 53.4 | 52.6 | 45.7 | 41.3 | 29.0 |
| 8000 | 7.0 | 22.6 | 32.3 | 38.5 | 43.4 | 44.2 | 46.3 | 43.8 | 41.6 | 33.3 | 25.2 | 12.6 | |
| 10000 | 2.1 | 15.7 | 22.4 | 27.1 | 29.2 | 30.1 | 27.6 | 24.2 | 15.5 | 3.2 | | | |
| 12500 | | | 3.7 | 6.2 | 6.8 | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 65.5 | 70.7 | 74.7 | 76.9 | 79.6 | 81.4 | 83.4 | 85.5 | 86.9 | 87.4 | 86.4 | 84.4 | 78.7 |
| PN98 | 70.4 | 77.6 | 82.5 | 85.7 | 89.6 | 91.1 | 93.7 | 95.0 | 94.8 | 94.0 | 92.0 | 88.9 | 80.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6107 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

| RDG. NO. | NO EGA | 40. FT. | 50. FT. | 60. FT. | 70. FT. | 80. FT. | 90. FT. | 100. FT. | 110. FT. | 120. FT. | 130. FT. | 140. FT. | 150. FT. | 160. FT. | 170. FT. | 180. FT. | 190. FT. | 200. FT. |
|----------|--------------------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 100 | 50 | 73.1 | 82.9 | 83.9 | 81.5 | 83.0 | 84.2 | 84.0 | 84.2 | 84.7 | 87.0 | 90.9 | 89.6 | 92.4 | 127.9 | | | |
| 125 | 63 | 72.8 | 76.6 | 78.6 | 80.4 | 82.0 | 83.4 | 83.2 | 84.9 | 83.4 | 83.4 | 81.4 | 92.3 | 92.9 | 127.5 | | | |
| 150 | 80 | 73.4 | 75.7 | 78.7 | 80.6 | 82.0 | 82.4 | 82.5 | 82.2 | 84.2 | 89.2 | 92.4 | 93.4 | 95.2 | 128.5 | | | |
| 200 | 100 | 75.8 | 76.3 | 78.3 | 80.6 | 81.2 | 82.7 | 82.7 | 85.1 | 87.8 | 91.4 | 94.8 | 98.3 | 99.3 | 132.3 | | | |
| 250 | 125 | 75.2 | 78.1 | 79.8 | 80.1 | 81.2 | 83.1 | 84.7 | 86.6 | 88.6 | 93.4 | 97.9 | 99.5 | 100.3 | 134.0 | | | |
| 315 | 150 | 77.2 | 80.7 | 80.4 | 82.7 | 84.6 | 85.4 | 86.3 | 87.7 | 91.2 | 96.0 | 100.0 | 102.4 | 102.7 | 136.4 | | | |
| 400 | 200 | 78.9 | 81.0 | 83.0 | 83.2 | 84.6 | 86.0 | 86.3 | 89.5 | 92.7 | 98.0 | 101.7 | 102.9 | 102.2 | 137.3 | | | |
| 500 | 250 | 79.8 | 81.0 | 83.0 | 83.6 | 84.9 | 86.8 | 87.7 | 90.3 | 93.3 | 98.9 | 101.6 | 102.2 | 100.8 | 137.0 | | | |
| 630 | 315 | 80.4 | 82.6 | 83.4 | 85.2 | 86.5 | 87.6 | 88.8 | 91.4 | 95.1 | 99.2 | 101.2 | 101.3 | 99.4 | 137.6 | | | |
| 800 | 400 | 81.6 | 83.7 | 85.2 | 86.2 | 87.5 | 89.2 | 90.3 | 92.9 | 96.9 | 100.7 | 101.7 | 100.6 | 98.2 | 137.6 | | | |
| 1000 | 500 | 82.4 | 85.0 | 86.7 | 87.3 | 88.9 | 90.2 | 91.1 | 94.3 | 97.5 | 101.3 | 103.8 | 99.2 | 97.2 | 138.2 | | | |
| 1250 | 630 | 82.8 | 85.1 | 87.8 | 87.6 | 88.9 | 91.1 | 92.2 | 95.4 | 98.6 | 101.6 | 103.8 | 100.5 | 97.6 | 138.2 | | | |
| 1600 | 800 | 82.9 | 86.7 | 86.9 | 88.5 | 90.3 | 91.9 | 92.8 | 95.2 | 99.2 | 101.7 | 102.0 | 101.6 | 98.4 | 138.9 | | | |
| 2000 | 1000 | 82.9 | 86.2 | 88.7 | 88.5 | 90.3 | 92.5 | 93.6 | 97.0 | 100.2 | 101.8 | 102.0 | 101.4 | 98.0 | 139.2 | | | |
| 2500 | 1250 | 83.0 | 86.3 | 88.8 | 89.1 | 91.4 | 92.3 | 93.7 | 97.9 | 101.6 | 101.9 | 101.6 | 101.3 | 98.6 | 139.6 | | | |
| 3150 | 1600 | 83.2 | 87.3 | 89.3 | 90.3 | 92.2 | 92.8 | 94.9 | 98.3 | 102.8 | 103.1 | 103.1 | 102.0 | 98.8 | 140.7 | | | |
| 4000 | 2000 | 83.3 | 86.1 | 88.8 | 89.4 | 91.4 | 93.1 | 95.2 | 99.1 | 102.1 | 103.2 | 102.4 | 102.3 | 98.3 | 140.6 | | | |
| 5000 | 2500 | 82.9 | 86.4 | 89.0 | 91.2 | 91.8 | 93.9 | 95.8 | 99.7 | 102.0 | 103.3 | 103.8 | 102.4 | 100.2 | 141.2 | | | |
| 6300 | 3150 | 82.5 | 86.3 | 89.8 | 91.1 | 93.2 | 95.5 | 97.4 | 100.1 | 102.3 | 103.4 | 104.6 | 102.5 | 100.3 | 141.9 | | | |
| 8000 | 4000 | 82.5 | 86.1 | 88.9 | 91.4 | 93.7 | 95.6 | 98.0 | 100.7 | 102.4 | 103.8 | 104.2 | 102.1 | 100.3 | 142.2 | | | |
| 10000 | 5000 | 81.9 | 86.5 | 90.1 | 91.6 | 94.2 | 95.0 | 98.2 | 103.9 | 102.1 | 102.5 | 103.0 | 101.6 | 101.3 | 142.0 | | | |
| 12500 | 6300 | 80.6 | 86.1 | 90.2 | 91.5 | 93.8 | 94.9 | 98.3 | 99.4 | 100.0 | 101.2 | 102.1 | 103.6 | 99.9 | 141.4 | | | |
| 16000 | 8000 | 80.7 | 87.0 | 91.2 | 93.1 | 95.9 | 94.0 | 97.4 | 97.7 | 99.9 | 99.2 | 99.8 | 100.3 | 99.2 | 141.2 | | | |
| 20000 | 10000 | 78.7 | 84.8 | 89.2 | 90.8 | 94.3 | 92.6 | 95.6 | 94.6 | 97.2 | 96.8 | 97.4 | 97.3 | 96.9 | 140.0 | | | |
| 25000 | 12500 | 75.3 | 82.2 | 85.6 | 87.9 | 90.6 | 90.1 | 91.1 | 92.0 | 95.1 | 93.0 | 95.6 | 92.6 | 93.2 | 138.4 | | | |
| 31500 | 16000 | 72.7 | 79.6 | 83.8 | 86.0 | 89.0 | 88.2 | 90.1 | 89.2 | 92.1 | 90.2 | 91.6 | 93.0 | 91.2 | 138.3 | | | |
| 40000 | 20000 | 67.4 | 74.3 | 80.2 | 81.2 | 83.5 | 83.3 | 85.8 | 84.9 | 86.0 | 87.4 | 88.3 | 86.3 | 86.3 | 137.4 | | | |
| 50000 | 25000 | 60.5 | 66.8 | 74.3 | 75.6 | 77.0 | 77.7 | 78.2 | 81.0 | 81.9 | 83.5 | 81.4 | 78.2 | 78.2 | 135.2 | | | |
| 63000 | 31500 | 54.0 | 58.8 | 69.0 | 68.4 | 69.5 | 69.5 | 69.6 | 71.7 | 74.5 | 75.9 | 78.4 | 74.8 | 71.3 | 135.2 | | | |
| 80000 | 40000 | 47.9 | 52.3 | 63.4 | 63.1 | 64.2 | 65.1 | 65.8 | 69.6 | 72.0 | 72.7 | 71.5 | 66.7 | 66.7 | 139.9 | | | |
| | OVERALL MEASURED | | | | | | | | | | | | | | | | | |
| | OVERALL CALCULATED | 94.5 | 98.6 | 101.4 | 102.7 | 104.6 | 105.7 | 107.9 | 110.3 | 112.9 | 114.4 | 115.1 | 114.6 | 113.1 | 153.6 | | | |
| | PNOB | 107.3 | 110.8 | 112.9 | 114.0 | 115.8 | 117.2 | 118.9 | 122.2 | 125.4 | 126.6 | 127.3 | 126.7 | 124.4 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 6 TEST POINT 6/08 ACoustic RANGE 12.2m(40ft.) ARC MODEL-125cm²(19.4in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| RDG. NO. | NO EGA | FULL SIZE SOUND PRESSURE LEVELS | | | | | | SCALED FROM MODEL DATA | | | | | | PROC. DATE - MONTH 9 DAY 7 HR. 17.6 | | | | | |
|--------------------|-------------------|---------------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|-------------------------------------|------|-----------|------|--------------|------|
| | | 40. | | 50. | | 60. | | 70. | | 80. | | 90. | | INLET IN DEGREES (AND RADIAN) | | REL. HUM. | | DAY - JEROTS | |
| 50 | | 78.6 | 80.8 | 82.6 | 82.9 | 84.0 | 85.8 | 87.5 | 89.4 | 91.3 | 96.2 | 100.6 | 102.3 | 103.1 | 120. | 130. | 140. | 150. | 160. |
| 63 | | 79.9 | 83.4 | 83.2 | 85.5 | 87.3 | 88.2 | 89.1 | 90.5 | 93.9 | 98.8 | 102.7 | 105.2 | 105.4 | 110. | 120. | 130. | 140. | 150. |
| 80 | | 81.7 | 83.7 | 85.7 | 86.0 | 87.4 | 88.7 | 89.1 | 92.3 | 95.5 | 100.8 | 104.5 | 105.7 | 105.0 | 110. | 120. | 130. | 140. | 150. |
| 100 | | 82.5 | 83.8 | 85.8 | 86.3 | 87.7 | 89.5 | 90.4 | 93.1 | 96.6 | 101.6 | 104.3 | 105.0 | 103.5 | 110. | 120. | 130. | 140. | 150. |
| 125 | | 83.1 | 85.4 | 86.2 | 87.9 | 89.3 | 90.4 | 91.5 | 94.2 | 97.9 | 102.0 | 103.9 | 104.1 | 102.1 | 110. | 120. | 130. | 140. | 150. |
| 160 | CELL41 | 84.4 | 86.4 | 87.9 | 89.0 | 90.3 | 91.9 | 93.1 | 95.7 | 99.7 | 103.5 | 104.4 | 103.4 | 100.9 | 110. | 120. | 130. | 140. | 150. |
| 200 | NC58 | 85.2 | 87.7 | 89.5 | 90.0 | 91.6 | 93.0 | 93.9 | 97.0 | 100.3 | 104.1 | 103.5 | 102.0 | 100.0 | 110. | 120. | 130. | 140. | 150. |
| 250 | C41 ANECH CH | 85.6 | 87.8 | 90.6 | 90.4 | 91.7 | 93.8 | 95.0 | 98.1 | 101.3 | 104.4 | 103.6 | 103.3 | 100.3 | 110. | 120. | 130. | 140. | 150. |
| 315 | GATE 06-16-76 | 85.7 | 89.4 | 89.7 | 91.2 | 93.1 | 94.7 | 95.6 | 98.0 | 102.0 | 104.5 | 104.7 | 104.4 | 101.2 | 110. | 120. | 130. | 140. | 150. |
| 400 | RUN CONF6VELDEPN | 85.7 | 89.0 | 91.5 | 91.3 | 93.1 | 95.2 | 96.4 | 99.8 | 103.0 | 104.6 | 104.8 | 104.2 | 100.7 | 110. | 120. | 130. | 140. | 150. |
| 500 | TAPE 29-4 HG | 85.8 | 89.1 | 91.6 | 91.9 | 94.2 | 95.1 | 96.5 | 100.7 | 104.4 | 104.7 | 104.4 | 104.1 | 101.4 | 110. | 120. | 130. | 140. | 150. |
| 630 | BAR (9212. N/M2) | 86.1 | 90.1 | 92.1 | 93.2 | 95.0 | 95.6 | 97.8 | 101.2 | 105.6 | 106.0 | 105.9 | 104.8 | 101.6 | 110. | 120. | 130. | 140. | 150. |
| 800 | TAMB (287. DEG K) | 86.1 | 88.9 | 91.7 | 92.2 | 94.3 | 95.9 | 98.1 | 102.0 | 105.0 | 106.1 | 105.3 | 105.2 | 101.2 | 110. | 120. | 130. | 140. | 150. |
| 1000 | 57. DEG F | 85.8 | 89.3 | 91.9 | 94.1 | 94.7 | 96.8 | 98.7 | 102.6 | 104.9 | 106.2 | 106.7 | 105.3 | 103.1 | 110. | 120. | 130. | 140. | 150. |
| 1250 | (287. DEG K) | 85.5 | 89.3 | 92.8 | 94.1 | 96.2 | 98.5 | 100.4 | 103.1 | 105.3 | 106.4 | 107.6 | 105.5 | 103.3 | 110. | 120. | 130. | 140. | 150. |
| 1600 | 55. DEG F | 85.6 | 89.2 | 92.1 | 94.6 | 96.9 | 98.7 | 101.1 | 103.8 | 105.6 | 106.9 | 107.4 | 105.2 | 103.5 | 110. | 120. | 130. | 140. | 150. |
| 2000 | (286. DEG K) | 85.3 | 89.9 | 93.5 | 95.0 | 97.6 | 98.4 | 101.6 | 104.3 | 105.5 | 105.9 | 106.3 | 104.9 | 104.4 | 110. | 120. | 130. | 140. | 150. |
| 2500 | HACT10.60 GM/M3 | 84.3 | 89.8 | 94.0 | 95.2 | 97.5 | 98.6 | 102.0 | 103.1 | 103.7 | 104.9 | 105.8 | 104.4 | 103.6 | 110. | 120. | 130. | 140. | 150. |
| 3150 | (01060 KG/M3) | 85.0 | 91.3 | 95.5 | 97.4 | 98.2 | 98.3 | 101.7 | 101.9 | 104.2 | 103.5 | 104.1 | 104.6 | 103.5 | 110. | 120. | 130. | 140. | 150. |
| 4000 | FREQ. SHIFT | 83.7 | 89.8 | 94.2 | 95.8 | 99.3 | 97.6 | 100.5 | 99.6 | 102.2 | 101.7 | 102.4 | 102.3 | 101.9 | 110. | 120. | 130. | 140. | 150. |
| 5000 | JET | 81.6 | 88.4 | 91.9 | 94.1 | 96.9 | 96.3 | 97.4 | 98.3 | 101.4 | 99.3 | 101.8 | 98.9 | 99.4 | 110. | 120. | 130. | 140. | 150. |
| 6300 | DIAMETER RATIO | 80.5 | 87.4 | 91.7 | 93.8 | 96.8 | 96.0 | 98.0 | 97.1 | 99.9 | 98.1 | 99.5 | 100.8 | 99.0 | 110. | 120. | 130. | 140. | 150. |
| 8000 | DF/DH 5.15 | 77.6 | 84.5 | 90.4 | 91.4 | 93.7 | 93.5 | 96.0 | 95.1 | 98.2 | 97.6 | 98.9 | 98.5 | 96.5 | 110. | 120. | 130. | 140. | 150. |
| 10000 | | 73.8 | 80.0 | 87.5 | 88.3 | 88.9 | 90.2 | 91.0 | 91.5 | 94.8 | 95.1 | 96.7 | 94.7 | 91.5 | 110. | 120. | 130. | 140. | 150. |
| 12500 | | 71.7 | 76.5 | 86.7 | 86.8 | 86.1 | 87.2 | 87.3 | 89.4 | 92.2 | 93.6 | 96.2 | 92.6 | 89.0 | 110. | 120. | 130. | 140. | 150. |
| 16000 | | 72.0 | 76.4 | 90.4 | 87.5 | 87.1 | 88.2 | 89.2 | 89.9 | 93.9 | 96.7 | 96.7 | 95.5 | 90.8 | 110. | 120. | 130. | 140. | 150. |
| OVERALL CALCULATED | | 97.9 | 101.9 | 105.2 | 106.5 | 108.5 | 109.3 | 111.6 | 113.7 | 116.3 | 117.6 | 118.3 | 117.7 | 116.0 | 110. | 120. | 130. | 140. | 150. |
| PNDB | | 109.8 | 115.0 | 118.7 | 120.3 | 122.3 | 122.4 | 124.9 | 126.2 | 128.6 | 129.1 | 130.0 | 129.4 | 128.0 | 110. | 120. | 130. | 140. | 150. |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6/08 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| % O EGA
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|-----------------------|-------|---|------|------|------|------|------|---|------|------|------|------|------|------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | ANGLES FROM INLET IN DEGREES (AND RADIANHS) | | | | | | | |
| | 50 | 50.4 | 54.2 | 57.1 | 58.1 | 59.6 | 61.6 | 63.1 | 64.6 | 65.8 | 69.5 | 72.4 | 71.9 | 69.2 | 160. |
| | 63 | 51.7 | 56.8 | 57.6 | 60.6 | 62.9 | 63.9 | 64.7 | 65.6 | 68.4 | 72.1 | 74.5 | 74.6 | 71.4 | 150. |
| | 80 | 53.4 | 57.0 | 63.1 | 61.1 | 62.9 | 64.4 | 64.6 | 67.4 | 69.3 | 74.1 | 76.2 | 75.0 | 70.8 | 140. |
| NFA (1. RPM) | 100 | 54.1 | 57.0 | 60.1 | 61.4 | 63.1 | 65.1 | 65.9 | 68.1 | 70.8 | 74.3 | 75.9 | 74.2 | 69.2 | 130. |
| (0. RAD/SEC) | 125 | 54.6 | 58.5 | 60.4 | 62.9 | 64.7 | 65.9 | 66.9 | 69.1 | 72.1 | 75.0 | 75.4 | 73.2 | 67.5 | 120. |
| NFK (1. RPM) | 160 | 55.6 | 59.3 | 62.0 | 63.8 | 65.6 | 67.3 | 68.3 | 70.5 | 73.7 | 76.4 | 75.7 | 72.2 | 65.9 | 110. |
| (0. RAD/SEC) | 200 | 56.3 | 60.5 | 63.4 | 64.7 | 66.8 | 68.3 | 69.0 | 71.7 | 74.2 | 76.8 | 74.6 | 70.5 | 64.6 | 100. |
| HFD (7500. RPM) | 250 | 56.3 | 60.4 | 64.3 | 64.9 | 66.7 | 68.9 | 69.9 | 72.6 | 75.1 | 76.9 | 74.4 | 71.5 | 64.5 | 90. |
| (785. RAD/SEC) | 315 | 56.1 | 61.7 | 63.2 | 65.5 | 67.8 | 69.6 | 70.3 | 72.3 | 75.4 | 76.8 | 75.2 | 72.2 | 64.7 | 80. |
| AIRFLOW RATIO | 400 | 55.7 | 60.9 | 64.7 | 65.3 | 67.6 | 69.9 | 70.8 | 73.8 | 76.2 | 76.5 | 74.6 | 71.4 | 63.4 | 70. |
| WF/W 5.15 | 500 | 55.3 | 60.6 | 64.4 | 65.5 | 68.4 | 69.4 | 70.6 | 74.3 | 77.1 | 76.2 | 73.9 | 70.6 | 63.0 | 60. |
| VEHICLE CELL41 | 630 | 54.9 | 61.0 | 64.4 | 66.3 | 68.7 | 69.5 | 71.4 | 74.3 | 77.9 | 76.8 | 74.7 | 70.5 | 61.9 | 50. |
| CONFIG NCS8 | 800 | 54.0 | 59.1 | 63.3 | 64.8 | 67.4 | 69.2 | 71.2 | 74.6 | 76.6 | 76.2 | 73.2 | 69.6 | 59.8 | 40. |
| LOC C41 ANECH CH | 1000 | 52.6 | 58.6 | 62.7 | 66.0 | 67.2 | 69.5 | 71.2 | 74.5 | 75.7 | 75.4 | 73.5 | 68.4 | 59.6 | 30. |
| DATE 06-16-76 | 1250 | 50.9 | 57.4 | 62.6 | 65.0 | 67.7 | 70.3 | 72.0 | 74.0 | 75.1 | 74.5 | 73.1 | 68.3 | 57.2 | 20. |
| RUN CONF6VELDEPN | 2000 | 46.5 | 54.5 | 60.2 | 63.1 | 66.4 | 67.5 | 70.4 | 73.4 | 74.0 | 73.4 | 70.9 | 64.0 | 53.7 | 10. |
| TAPE X61080 | 2500 | 42.2 | 51.6 | 58.2 | 61.0 | 64.2 | 65.6 | 68.9 | 72.3 | 72.2 | 70.5 | 67.5 | 60.7 | 50.2 | 0. |
| FAN TIP SPEED | 3150 | 37.4 | 48.5 | 55.8 | 59.6 | 61.4 | 61.9 | 64.9 | 64.2 | 64.5 | 60.8 | 56.5 | 49.0 | 32.5 | -10. |
| F1/SEC | 4000 | 28.1 | 40.3 | 48.6 | 52.6 | 57.4 | 56.2 | 58.6 | 56.4 | 56.4 | 52.3 | 46.7 | 36.2 | 15.4 | -20. |
| | 5000 | 21.3 | 35.1 | 42.8 | 47.8 | 52.0 | 51.9 | 52.5 | 51.9 | 52.4 | 46.0 | 41.5 | 26.8 | 4.0 | -30. |
| | 6300 | 6.5 | 22.6 | 32.6 | 38.3 | 43.2 | 43.0 | 44.3 | 41.5 | 40.8 | 33.3 | 25.4 | 10.9 | | -40. |
| | 8000 | | 2.1 | 15.9 | 21.7 | 26.6 | 27.2 | 28.8 | 25.4 | 23.7 | 15.2 | 3.7 | | | -50. |
| | 10000 | | | | 3.0 | 5.4 | 5.1 | 2.0 | | | | | | | -60. |
| | 12500 | | | | | | | | | | | | | | -70. |
| | 16000 | | | | | | | | | | | | | | -80. |
| OVERALL CALCULATED | | 66.4 | 71.3 | 74.8 | 76.7 | 79.0 | 80.7 | 82.3 | 84.7 | 86.9 | 87.6 | 86.6 | 83.9 | 78.4 | -90. |
| PNDB | | 70.9 | 77.6 | 82.6 | 85.2 | 88.1 | 89.5 | 91.7 | 93.5 | 94.5 | 94.2 | 92.1 | 87.4 | 79.0 | -100. |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6108 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

| FREQ. | 4C. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------------|
| RDG. NO. | (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.) (0.) |
| NO EGA | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | |
| RADIAL | 40. | 40. | 40. | 40. | 40. | 40. | 40. | 40. | 40. | 40. | 40. | 40. | 40. | |
| VEHICLE | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | |
| CONFIG | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | NCS8 | |
| LOC | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | |
| DATE | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | 06-16-76 | |
| RUN | CONF | CONF | CONF | CONF | CONF | CONF | CONF | CONF | CONF | CONF | CONF | CONF | CONF | |
| TAPE | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | |
| TAP9 | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | 56. DEG F | |
| TWET | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | 54. DEG F | |
| HACT | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | 10.48 GM/M3 | |
| FREQ. SHIFT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| JET | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DIAMETER | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| DF/DB | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| OVERALL PEASURED | 55.4 | 59.3 | 101.8 | 102.9 | 104.8 | 105.7 | 107.7 | 110.3 | 112.8 | 114.4 | 115.8 | 116.2 | 116.9 | |
| OVERALL CALCULATED | 107.7 | 111.0 | 113.5 | 114.2 | 116.0 | 117.3 | 119.0 | 122.5 | 125.3 | 126.8 | 128.0 | 128.2 | 125.9 | |

SIZE MODEL-125cm² (19.4in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE
 6 6110 12.2m(40ft.) ARC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| NO EGA | (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) | (2.96) | (0.) |
| RDG. NO. | 50 | 79.6 | 82.1 | 83.1 | 83.6 | 85.5 | 86.8 | 88.7 | 90.4 | 92.1 | 97.4 | 102.4 | 104.1 | 105.1 | 149.9 |
| RADIAL 150. FT. | 63 | 80.2 | 84.4 | 83.7 | 85.7 | 88.1 | 88.9 | 89.8 | 91.7 | 94.4 | 98.5 | 103.5 | 106.7 | 106.7 | 151.7 |
| (46. M) | 80 | 82.4 | 84.2 | 86.5 | 86.8 | 88.4 | 89.7 | 90.6 | 93.3 | 96.2 | 100.5 | 105.2 | 107.4 | 107.2 | 152.9 |
| VEHICLE CELL41 | 100 | 82.8 | 84.5 | 86.6 | 86.8 | 88.7 | 90.5 | 91.4 | 94.1 | 97.1 | 102.4 | 105.8 | 107.0 | 105.5 | 152.5 |
| LOC C41 ANECH CH | 125 | 84.1 | 85.9 | 87.2 | 88.7 | 90.0 | 91.1 | 92.5 | 95.2 | 98.4 | 102.7 | 105.7 | 105.6 | 103.6 | 152.7 |
| DATE 06-16-76 | 160 | 85.1 | 87.7 | 88.2 | 89.5 | 91.3 | 92.7 | 93.6 | 96.5 | 99.7 | 103.5 | 105.9 | 104.6 | 102.2 | 152.7 |
| RUN CONF6VELDEPN | 200 | 86.2 | 88.7 | 90.3 | 90.8 | 91.4 | 93.2 | 94.0 | 97.3 | 100.8 | 104.1 | 105.5 | 103.2 | 101.5 | 153.1 |
| TAPE X61100 | 250 | 86.3 | 88.8 | 90.6 | 91.1 | 92.2 | 93.8 | 95.2 | 98.1 | 101.8 | 104.7 | 105.1 | 104.3 | 100.8 | 153.8 |
| BAR 29.4 HG | 315 | 86.4 | 89.7 | 90.7 | 91.5 | 93.6 | 95.2 | 96.3 | 98.5 | 102.7 | 105.3 | 105.5 | 103.2 | 101.9 | 154.0 |
| (59212. N/M2) | 400 | 86.5 | 89.5 | 91.5 | 92.0 | 94.2 | 95.1 | 97.0 | 100.2 | 103.9 | 104.6 | 105.3 | 105.7 | 102.0 | 154.1 |
| TAMB 56. DEG F | 600 | 86.3 | 89.9 | 92.9 | 93.4 | 95.3 | 95.9 | 97.8 | 101.7 | 105.1 | 106.0 | 106.4 | 106.8 | 103.4 | 155.4 |
| (286. DEG K) | 1000 | 85.5 | 89.6 | 91.9 | 93.4 | 94.3 | 96.2 | 98.1 | 102.2 | 105.2 | 105.3 | 106.0 | 106.2 | 102.9 | 155.1 |
| TWET 54. DEG F | 1250 | 86.0 | 89.5 | 92.3 | 93.3 | 95.9 | 98.5 | 99.9 | 103.3 | 105.6 | 106.2 | 107.6 | 107.0 | 104.8 | 156.3 |
| (.01048 KG/7.3) | 1600 | 86.4 | 89.0 | 92.6 | 94.3 | 96.9 | 98.2 | 100.9 | 104.1 | 104.8 | 106.9 | 107.4 | 106.2 | 106.0 | 156.5 |
| HACT10.48 GM/H3 | 2000 | 86.1 | 90.7 | 94.3 | 95.0 | 97.8 | 97.2 | 100.8 | 104.0 | 105.0 | 105.9 | 106.6 | 106.7 | 107.4 | 155.7 |
| (.01048 KG/7.3) | 3150 | 85.7 | 93.3 | 96.5 | 98.1 | 98.4 | 97.8 | 100.7 | 102.6 | 103.7 | 104.4 | 105.1 | 106.6 | 106.1 | 155.7 |
| FREQ. SHIFT | 4000 | 83.7 | 90.3 | 94.7 | 95.8 | 99.9 | 98.1 | 100.3 | 99.1 | 101.4 | 101.0 | 101.8 | 100.4 | 101.2 | 154.3 |
| JET | 5000 | 82.4 | 88.9 | 91.9 | 94.1 | 96.9 | 96.8 | 97.4 | 98.3 | 101.1 | 99.1 | 99.1 | 101.8 | 100.4 | 152.8 |
| DIAMETER RATIO | 6300 | 81.0 | 87.4 | 91.6 | 94.1 | 96.8 | 96.5 | 98.2 | 97.1 | 99.4 | 98.0 | 98.5 | 102.3 | 100.0 | 152.8 |
| LF/DM 5.15 | 8000 | 77.8 | 84.0 | 89.7 | 91.9 | 94.4 | 93.7 | 95.2 | 95.6 | 97.2 | 97.6 | 98.6 | 100.2 | 98.7 | 151.8 |
| OVERALL CALCULATED | 10000 | 74.3 | 80.2 | 85.8 | 88.5 | 89.3 | 89.7 | 90.2 | 91.4 | 94.3 | 94.6 | 96.4 | 95.1 | 95.9 | 149.6 |
| | 12500 | 71.7 | 77.5 | 83.7 | 86.3 | 89.3 | 87.7 | 87.0 | 88.6 | 92.2 | 93.6 | 95.1 | 92.5 | 94.7 | 153.9 |
| | 16000 | 72.2 | 76.6 | 84.5 | 87.4 | 90.8 | 88.4 | 89.1 | 87.3 | 92.8 | 96.4 | 96.2 | 93.0 | 97.2 | 149.6 |
| | PND8 | 110.4 | 116.1 | 119.2 | 120.7 | 122.3 | 122.3 | 124.6 | 126.0 | 128.4 | 128.9 | 130.2 | 130.9 | 129.7 | 168.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION ζ TEST POINT 6/10 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO EGA | (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) |
| SIDELINE 2400. FT. | 50 | 51.4 | 55.5 | 57.6 | 58.8 | 61.1 | 62.6 | 64.3 | 65.6 | 66.6 | 70.8 | 74.2 | 73.6 |
| (731.52 M) | 63 | 51.9 | 57.8 | 58.1 | 60.9 | 63.7 | 64.7 | 65.4 | 66.9 | 68.9 | 71.8 | 75.2 | 76.1 |
| NFA (1. RPM | 80 | 54.1 | 57.5 | 60.8 | 61.9 | 63.9 | 65.4 | 66.1 | 68.4 | 70.6 | 73.8 | 76.9 | 76.8 |
| (0. RAD/SEC) | 100 | 54.3 | 57.7 | 60.8 | 61.9 | 64.1 | 66.1 | 66.9 | 69.1 | 71.3 | 75.5 | 77.4 | 76.2 |
| NFK (1. RPM | 125 | 55.6 | 59.0 | 61.4 | 63.6 | 65.4 | 66.7 | 67.9 | 70.1 | 72.6 | 75.8 | 77.1 | 74.7 |
| (0. RAD/SEC) | 160 | 56.4 | 60.6 | 62.2 | 64.3 | 66.6 | 68.1 | 68.8 | 71.3 | 73.7 | 76.4 | 77.2 | 73.5 |
| NFD (7500. RPM | 200 | 57.3 | 61.5 | 64.2 | 65.5 | 66.5 | 68.5 | 69.8 | 72.0 | 74.7 | 76.8 | 76.6 | 71.8 |
| (785. RAD/SEC) | 250 | 57.1 | 61.4 | 64.3 | 65.6 | 67.2 | 68.9 | 70.2 | 72.6 | 75.6 | 77.2 | 75.9 | 72.5 |
| AIREFLOW RATIO | 315 | 56.9 | 61.9 | 64.2 | 65.8 | 68.3 | 70.1 | 71.1 | 72.8 | 76.2 | 77.5 | 75.9 | 72.9 |
| WF/MW 5.15 | 400 | 56.5 | 61.4 | 64.7 | 66.0 | 67.8 | 70.1 | 71.3 | 74.0 | 76.4 | 76.5 | 75.3 | 72.9 |
| VEHICLE | 500 | 55.6 | 61.1 | 64.6 | 65.8 | 68.4 | 69.4 | 71.1 | 73.8 | 76.6 | 75.9 | 74.9 | 72.1 |
| CONFIG NC58 | 630 | 55.1 | 60.7 | 65.2 | 66.6 | 68.9 | 69.7 | 71.4 | 74.8 | 77.4 | 76.8 | 75.2 | 72.5 |
| LOC C41 ANECH CH | 800 | 53.8 | 59.1 | 63.6 | 65.1 | 67.4 | 69.5 | 71.2 | 74.8 | 76.8 | 75.4 | 73.9 | 70.6 |
| DATE 06-16-76 | 1000 | 52.4 | 58.8 | 62.7 | 65.2 | 67.2 | 69.2 | 71.2 | 74.2 | 75.7 | 75.2 | 73.7 | 69.9 |
| RUN CONFVLEDEPN | 1250 | 51.4 | 57.6 | 62.1 | 64.3 | 67.5 | 70.3 | 71.5 | 74.3 | 75.4 | 74.3 | 73.1 | 68.3 |
| TAPE X61100 | 1600 | 49.9 | 55.5 | 61.0 | 63.9 | 67.2 | 68.8 | 71.2 | 73.7 | 73.2 | 73.4 | 70.9 | 65.0 |
| FAN TIP SPEED | 2000 | 47.3 | 55.2 | 61.0 | 63.1 | 66.7 | 66.3 | 69.7 | 72.1 | 71.7 | 70.5 | 67.8 | 62.5 |
| FT/SEC | 2500 | 42.9 | 53.6 | 59.2 | 61.5 | 63.7 | 65.1 | 67.4 | 68.4 | 68.0 | 66.2 | 62.9 | 58.0 |
| | 3150 | 38.2 | 50.5 | 56.8 | 60.4 | 61.7 | 61.4 | 64.2 | 63.7 | 64.3 | 60.8 | 57.0 | 50.5 |
| | 4000 | 28.1 | 40.8 | 49.1 | 52.6 | 57.1 | 56.7 | 58.4 | 55.9 | 55.9 | 51.5 | 46.2 | 38.0 |
| | 5000 | 22.1 | 35.6 | 42.8 | 47.8 | 52.0 | 52.4 | 52.5 | 51.9 | 52.1 | 45.7 | 41.5 | 28.3 |
| | 6300 | 7.0 | 22.6 | 32.6 | 38.5 | 43.2 | 43.5 | 44.6 | 41.5 | 40.3 | 33.3 | 25.4 | 12.4 |
| | 8000 | | 1.6 | 15.1 | 22.2 | 27.3 | 27.4 | 28.1 | 25.9 | 22.7 | 15.2 | 3.5 | |
| | 10000 | | | | 3.4 | 4.9 | 4.3 | 2.0 | | | | | |
| OVERALL CALCULATED | 67.0 | 71.9 | 75.2 | 77.0 | 79.3 | 80.9 | 82.4 | 85.0 | 87.0 | 87.7 | 87.6 | 85.4 | 80.0 |
| PNDB | 71.6 | 78.4 | 83.2 | 85.5 | 88.3 | 89.3 | 91.4 | 93.5 | 94.3 | 94.2 | 92.6 | 88.9 | 80.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6110 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

C-6

| RDG. NO. | NO. EGA | 40. FREQ. | 50. (0.70) | 60. (1.05) | 70. (1.22) | 80. (1.40) | 90. (1.57) | 87.3 (1.75) | 88.5 (1.92) | 88.9 (2.09) | 90.5 (2.27) | 94.4 (2.44) | 94.1 (2.62) | 96.9 (2.79) | 0. (0.) | 0. (0.) | 0. (0.) | PWL | |
|--------------------|---------|-----------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|---------|---------|-------|-------|
| 100 | 63 | 76.6 | 86.2 | 94.4 | 85.5 | 87.0 | 87.2 | 87.3 | 88.5 | 88.9 | 90.5 | 94.4 | 94.1 | 96.9 | | | | 132.0 | |
| 125 | 80 | 76.3 | 80.1 | 92.4 | 84.4 | 86.0 | 87.6 | 87.2 | 89.4 | 87.1 | 86.9 | 95.6 | 97.3 | 98.1 | | | | 132.9 | |
| 160 | 76.9 | 79.4 | 79.4 | 92.9 | 83.0 | 85.5 | 84.4 | 84.5 | 86.5 | 87.7 | 93.0 | 96.7 | 98.4 | 100.7 | | | | 133.9 | |
| 200 | 79.5 | 79.5 | 91.5 | 83.6 | 84.4 | 85.5 | 86.2 | 86.2 | 89.1 | 91.3 | 95.1 | 99.1 | 103.3 | 105.0 | | | | 137.3 | |
| 250 | 78.6 | 82.3 | 93.6 | 83.1 | 85.0 | 86.6 | 89.0 | 86.6 | 89.0 | 92.3 | 97.2 | 103.1 | 105.3 | 106.3 | | | | 139.4 | |
| 315 | 80.2 | 84.4 | 93.7 | 85.7 | 88.3 | 88.7 | 89.1 | 92.0 | 94.4 | 99.2 | 104.7 | 108.1 | 108.9 | | | | | 141.7 | |
| 400 | 82.2 | 84.0 | 96.2 | 86.2 | 87.3 | 88.7 | 90.1 | 93.0 | 96.0 | 101.8 | 107.7 | 109.9 | 109.2 | | | | | 143.5 | |
| 500 | 82.8 | 84.3 | 95.5 | 87.1 | 88.2 | 90.0 | 91.2 | 94.1 | 97.3 | 103.1 | 108.6 | 111.0 | 109.8 | | | | | 144.4 | |
| 630 | 84.4 | 85.6 | 96.6 | 87.9 | 89.8 | 91.1 | 93.0 | 95.4 | 98.6 | 103.5 | 108.7 | 111.3 | 109.9 | | | | | 144.7 | |
| 800 | 86.1 | 87.4 | 98.7 | 88.9 | 91.3 | 92.4 | 94.0 | 96.2 | 99.9 | 104.2 | 108.7 | 110.6 | 109.7 | | | | | 144.7 | |
| 1000 | 87.9 | 89.2 | 100.2 | 91.3 | 92.1 | 93.5 | 95.1 | 97.5 | 100.5 | 104.3 | 107.0 | 108.4 | 109.2 | | | | | 143.8 | |
| 1250 | 87.3 | 88.6 | 101.1 | 91.1 | 92.4 | 94.6 | 95.7 | 98.4 | 101.1 | 104.6 | 105.6 | 108.0 | 108.1 | | | | | 143.5 | |
| 1600 | 87.4 | 89.7 | 100.4 | 92.0 | 93.0 | 95.2 | 96.0 | 98.0 | 102.2 | 104.7 | 105.7 | 107.6 | 107.7 | | | | | 143.5 | |
| 2000 | 88.2 | 89.2 | 101.7 | 92.0 | 93.3 | 95.0 | 96.6 | 99.0 | 102.7 | 104.5 | 104.7 | 106.7 | 107.0 | | | | | 143.3 | |
| 2500 | 87.8 | 90.3 | 101.3 | 92.4 | 93.7 | 95.1 | 96.4 | 99.4 | 103.1 | 103.9 | 104.1 | 106.0 | 105.6 | | | | | 142.9 | |
| 3150 | 86.7 | 91.0 | 102.6 | 92.4 | 93.7 | 95.3 | 96.9 | 100.1 | 103.8 | 104.1 | 104.3 | 106.7 | 105.8 | | | | | 143.5 | |
| 4000 | 87.8 | 90.1 | 101.6 | 92.4 | 93.7 | 95.3 | 96.9 | 100.6 | 103.1 | 103.7 | 103.1 | 105.5 | 103.6 | | | | | 142.8 | |
| 5000 | 87.1 | 89.7 | 101.5 | 93.2 | 93.6 | 95.9 | 97.6 | 101.0 | 102.5 | 103.6 | 103.5 | 105.9 | 104.2 | | | | | 143.5 | |
| 6300 | 86.5 | 89.3 | 101.8 | 92.9 | 94.9 | 96.5 | 98.2 | 100.8 | 103.3 | 103.4 | 103.6 | 106.8 | 105.0 | | | | | 143.5 | |
| 8000 | 86.3 | 88.6 | 101.4 | 92.9 | 95.0 | 96.4 | 98.5 | 100.9 | 102.9 | 103.3 | 103.0 | 106.3 | 104.8 | | | | | 143.7 | |
| 10000 | 84.9 | 89.8 | 102.4 | 93.6 | 95.4 | 97.3 | 99.1 | 101.0 | 101.4 | 101.4 | 101.3 | 104.9 | 102.1 | | | | | 142.9 | |
| 12500 | 83.1 | 88.4 | 101.5 | 92.5 | 94.5 | 96.4 | 98.4 | 100.9 | 102.9 | 103.3 | 103.6 | 103.6 | 101.2 | | | | | 142.7 | |
| 16000 | 82.5 | 87.7 | 100.9 | 92.6 | 94.6 | 96.6 | 98.5 | 101.0 | 101.4 | 101.4 | 101.3 | 100.8 | 98.9 | | | | | 141.3 | |
| 20000 | 79.7 | 84.8 | 98.9 | 90.8 | 94.1 | 97.1 | 99.4 | 99.9 | 97.5 | 96.5 | 96.6 | 100.8 | 98.9 | | | | | 139.6 | |
| 25000 | 77.3 | 82.7 | 95.1 | 87.9 | 91.1 | 90.6 | 91.3 | 92.3 | 95.1 | 93.5 | 95.3 | 95.6 | 96.2 | | | | | 140.1 | |
| 31500 | 75.2 | 80.3 | 94.5 | 86.5 | 89.5 | 88.7 | 90.4 | 90.2 | 91.8 | 91.2 | 92.1 | 96.0 | 93.7 | | | | | 139.3 | |
| 40000 | 71.1 | 76.0 | 91.0 | 82.7 | 84.3 | 84.5 | 86.3 | 85.9 | 87.7 | 88.2 | 88.2 | 91.0 | 89.6 | | | | | 137.2 | |
| 50000 | 65.5 | 69.8 | 85.3 | 76.0 | 77.5 | 78.2 | 79.0 | 81.8 | 82.1 | 83.2 | 83.2 | 83.7 | 83.2 | | | | | 137.2 | |
| 63000 | 60.5 | 63.5 | 79.5 | 69.1 | 69.6 | 70.5 | 70.6 | 72.7 | 74.8 | 76.7 | 77.2 | 76.8 | 79.3 | | | | | 137.4 | |
| 80000 | 57.4 | 59.8 | 76.8 | 63.9 | 64.1 | 65.2 | 65.9 | 66.6 | 69.3 | 72.6 | 71.9 | 71.5 | 75.2 | | | | | 142.5 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 99.0 | 101.7 | 113.6 | 104.7 | 106.4 | 107.5 | 109.2 | 111.6 | 114.3 | 116.2 | 118.4 | 120.9 | 120.2 | | | | | 156.9 |
| PNDB | | 112.0 | 114.3 | 125.8 | 116.7 | 118.4 | 119.4 | 121.0 | 124.0 | 126.9 | 128.4 | 129.6 | 132.0 | 131.3 | | | | | |

CONFIGURATION 6 TEST POINT 6/12 ACOUSTIC RANGE 12.2m(40ft.) ARC
 SIZE MODEL-125cm²(19.4in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

| RDG. NO. | NO. EG | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PdL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|-------|
| FREQ. | (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) | (2.97) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| 50 | 81.6 | 85.1 | 86.3 | 85.9 | 87.7 | 89.3 | 91.7 | 93.4 | 95.1 | 97.2 | 102.0 | 107.5 | 110.9 | 111.7 | | | | | | 153.7 |
| 80 | 82.9 | 87.2 | 86.4 | 88.5 | 91.1 | 91.5 | 92.9 | 95.8 | 98.7 | 104.5 | 110.5 | 112.7 | 112.0 | | | | | | | 156.0 |
| 100 | 85.5 | 87.0 | 93.3 | 89.8 | 90.9 | 92.8 | 93.9 | 96.8 | 100.1 | 105.9 | 111.3 | 113.8 | 112.5 | | | | | | | 157.7 |
| 125 | 87.1 | 88.4 | 99.4 | 90.7 | 92.5 | 93.9 | 95.6 | 98.2 | 101.4 | 106.2 | 111.4 | 114.1 | 112.6 | | | | | | | 158.9 |
| 160 | 88.9 | 90.2 | 101.4 | 91.7 | 94.1 | 95.2 | 96.8 | 99.0 | 102.7 | 107.0 | 111.4 | 113.4 | 112.4 | | | | | | | 158.9 |
| 200 | 90.7 | 92.0 | 103.0 | 94.0 | 94.9 | 96.2 | 97.9 | 103.3 | 107.3 | 107.1 | 109.8 | 111.2 | 112.0 | | | | | | | 159.1 |
| 250 | 90.1 | 91.3 | 103.8 | 93.9 | 95.2 | 97.3 | 98.5 | 101.1 | 103.8 | 107.4 | 108.4 | 110.8 | 110.8 | | | | | | | 157.7 |
| 315 | 90.2 | 92.4 | 103.2 | 94.7 | 95.8 | 97.9 | 98.6 | 100.7 | 105.0 | 107.5 | 108.5 | 110.4 | 110.4 | | | | | | | 157.5 |
| 400 | 91.0 | 92.0 | 104.5 | 94.8 | 96.1 | 97.7 | 99.4 | 101.8 | 105.5 | 107.3 | 107.5 | 109.5 | 109.7 | | | | | | | 157.1 |
| 500 | 90.6 | 93.1 | 104.1 | 95.2 | 96.5 | 97.9 | 99.2 | 102.2 | 105.9 | 106.7 | 106.9 | 108.8 | 108.4 | | | | | | | 157.7 |
| 630 | 91.6 | 93.9 | 105.1 | 95.9 | 97.8 | 98.1 | 99.8 | 102.9 | 106.6 | 107.2 | 107.2 | 109.6 | 108.6 | | | | | | | 157.0 |
| 800 | 90.6 | 92.9 | 104.5 | 95.2 | 96.6 | 98.2 | 99.8 | 103.5 | 106.0 | 106.6 | 106.0 | 108.4 | 106.4 | | | | | | | 157.8 |
| 1000 | 90.0 | 92.6 | 104.4 | 96.1 | 96.5 | 98.8 | 100.5 | 103.9 | 105.4 | 106.5 | 106.4 | 108.8 | 107.1 | | | | | | | 157.2 |
| 1250 | 89.5 | 92.3 | 104.8 | 95.3 | 97.9 | 99.5 | 101.2 | 103.8 | 106.3 | 106.4 | 106.6 | 109.8 | 108.0 | | | | | | | 157.9 |
| 1600 | 89.4 | 91.7 | 104.6 | 96.1 | 98.1 | 99.2 | 101.6 | 104.3 | 106.1 | 107.2 | 106.6 | 109.5 | 108.0 | | | | | | | 158.2 |
| 2000 | 88.3 | 93.2 | 105.3 | 97.0 | 98.8 | 98.7 | 101.5 | 104.3 | 106.3 | 106.7 | 106.3 | 110.2 | 107.2 | | | | | | | 157.1 |
| 2500 | 86.8 | 92.1 | 105.2 | 96.2 | 98.2 | 99.1 | 101.0 | 102.8 | 104.7 | 105.2 | 105.1 | 108.6 | 105.8 | | | | | | | 157.0 |
| 3150 | 86.7 | 92.0 | 105.2 | 96.9 | 98.9 | 99.3 | 101.4 | 101.7 | 104.2 | 104.5 | 104.6 | 107.8 | 105.5 | | | | | | | 155.6 |
| 4000 | 84.7 | 89.8 | 103.9 | 95.8 | 99.0 | 98.4 | 100.8 | 99.9 | 102.4 | 101.5 | 101.6 | 105.8 | 103.9 | | | | | | | 153.9 |
| 5000 | 83.6 | 88.9 | 101.4 | 94.1 | 97.4 | 96.8 | 97.6 | 98.5 | 101.4 | 99.8 | 101.6 | 101.9 | 102.4 | | | | | | | 153.5 |
| 6300 | 83.0 | 88.2 | 102.4 | 94.3 | 97.3 | 96.5 | 96.2 | 98.1 | 99.7 | 99.1 | 100.0 | 103.8 | 101.5 | | | | | | | 151.4 |
| 8000 | 81.3 | 86.2 | 101.2 | 92.9 | 94.5 | 94.7 | 96.5 | 96.1 | 97.9 | 98.4 | 98.4 | 101.2 | 99.8 | | | | | | | 151.6 |
| 10000 | 78.6 | 83.0 | 98.5 | 89.3 | 89.9 | 90.7 | 91.5 | 92.2 | 95.1 | 95.4 | 96.5 | 96.9 | 96.5 | | | | | | | 150.7 |
| 12500 | 78.2 | 81.2 | 97.2 | 86.8 | 87.3 | 88.2 | 88.3 | 90.4 | 92.5 | 94.4 | 94.9 | 94.6 | 97.0 | | | | | | | 171.1 |
| 16000 | 81.5 | 83.9 | 100.9 | 88.0 | 88.1 | 89.2 | 89.9 | 90.6 | 93.4 | 96.7 | 96.0 | 95.5 | 99.3 | | | | | | | |
| OVERALL CALCULATED | 102.1 | 104.8 | 117.1 | 108.2 | 110.0 | 110.9 | 112.7 | 114.8 | 117.5 | 119.2 | 121.3 | 123.8 | 123.0 | | | | | | | |
| PNDB | 112.8 | 116.9 | 129.6 | 121.1 | 123.1 | 123.7 | 125.6 | 126.8 | 129.3 | 130.2 | 131.0 | 133.8 | 132.3 | | | | | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION C TEST POINT 6112 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 79 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | ANGLES FROM INLET IN DEGREES (AND RADIANES) | | | | | | | | | | | | |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| NO CSA | (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) |
| SIDELINE 2400. FT. | 53.4 | 58.5 | 60.5 | 70.9 | 63.6 | 67.2 | 67.4 | 69.9 | 71.6 | 75.3 | 79.2 | 80.4 | 77.7 |
| (731.52 M) | 56.6 | 60.0 | 63.0 | 64.1 | 65.6 | 67.1 | 68.4 | 70.9 | 73.1 | 77.8 | 82.2 | 82.0 | 77.8 |
| NFA | 57.1 | 60.2 | 72.6 | 64.9 | 68.4 | 68.4 | 69.4 | 71.9 | 74.3 | 79.0 | 82.9 | 83.0 | 78.2 |
| (0. RAD/SEC) | 58.6 | 61.5 | 73.6 | 65.6 | 67.9 | 69.4 | 71.2 | 73.1 | 75.6 | 79.3 | 82.9 | 83.0 | 78.0 |
| NFK | 60.1 | 63.1 | 75.5 | 66.5 | 69.3 | 70.6 | 72.1 | 73.8 | 76.7 | 79.9 | 82.7 | 82.2 | 77.4 |
| (0. RAD/SEC) | 61.8 | 64.7 | 76.9 | 68.7 | 70.0 | 71.5 | 73.0 | 75.0 | 77.2 | 79.8 | 80.8 | 79.8 | 76.6 |
| NFD | 60.3 | 63.9 | 77.6 | 68.4 | 70.2 | 72.4 | 73.4 | 75.6 | 77.6 | 79.9 | 79.2 | 79.0 | 75.0 |
| (7500. RPM) | 60.6 | 64.7 | 76.7 | 69.0 | 70.6 | 72.8 | 73.6 | 75.0 | 78.4 | 79.8 | 78.9 | 78.2 | 73.9 |
| (785. RAD/SEC) | 61.0 | 63.9 | 77.7 | 68.8 | 70.6 | 72.4 | 73.2 | 75.8 | 78.7 | 79.2 | 77.5 | 76.7 | 72.4 |
| AIRFLOW RATIO | 60.1 | 64.6 | 76.9 | 68.8 | 70.6 | 72.2 | 73.4 | 75.8 | 78.6 | 78.2 | 76.4 | 75.4 | 70.0 |
| W/F/M 5.15 | 60.4 | 64.7 | 77.4 | 69.1 | 71.4 | 72.0 | 73.4 | 76.1 | 78.9 | 77.8 | 76.0 | 75.2 | 68.9 |
| VERICILE | 58.5 | 63.1 | 76.1 | 67.8 | 69.7 | 71.5 | 72.9 | 76.1 | 77.6 | 76.7 | 73.9 | 72.9 | 65.0 |
| CONFIG | 56.9 | 61.8 | 75.2 | 68.0 | 68.9 | 71.5 | 72.9 | 75.7 | 76.2 | 75.7 | 73.2 | 71.9 | 63.6 |
| LOC C41 ANECH CH | 54.9 | 60.4 | 74.6 | 66.3 | 69.5 | 71.3 | 72.7 | 74.8 | 76.1 | 74.5 | 72.1 | 71.1 | 61.9 |
| DATE 06-16-76 | 52.9 | 58.2 | 73.0 | 65.7 | 68.4 | 69.8 | 71.9 | 73.9 | 74.5 | 73.7 | 70.1 | 68.3 | 58.2 |
| RUN CONFVELDEPH | 49.5 | 57.7 | 72.5 | 65.1 | 67.7 | 67.8 | 70.7 | 72.3 | 73.0 | 71.2 | 67.5 | 66.0 | 52.9 |
| TAPE X61120 | 44.7 | 53.8 | 69.5 | 62.0 | 64.9 | 66.1 | 67.7 | 68.7 | 69.0 | 66.9 | 62.9 | 60.0 | 45.2 |
| FAN TIP SPEED | 39.2 | 49.3 | 65.5 | 59.1 | 62.2 | 62.9 | 64.7 | 63.9 | 64.5 | 61.8 | 57.0 | 52.3 | 34.5 |
| FT/SEC | 29.1 | 40.3 | 58.3 | 52.6 | 57.1 | 56.9 | 56.9 | 56.7 | 56.9 | 52.0 | 46.0 | 39.7 | 17.4 |
| | 23.3 | 35.6 | 52.3 | 47.8 | 52.5 | 52.4 | 52.2 | 52.4 | 52.4 | 46.5 | 41.3 | 29.8 | 7.0 |
| | 9.0 | 23.4 | 43.3 | 38.8 | 43.7 | 43.5 | 44.6 | 42.5 | 40.6 | 34.3 | 25.9 | 13.9 | |
| | 3.9 | 26.7 | 23.2 | 27.3 | 28.4 | 29.3 | 26.4 | 23.4 | 16.0 | 3.2 | | | |
| | | 2.5 | 4.0 | 5.9 | 5.6 | 2.7 | | | | | | | |

| | 70.9 | 74.8 | 87.7 | 79.5 | 81.5 | 83.1 | 84.5 | 86.7 | 88.8 | 90.1 | 91.4 | 91.2 | 86.8 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| OVERALL CALCULATED | 75.5 | 80.7 | 95.2 | 87.4 | 89.9 | 90.9 | 92.8 | 94.5 | 95.8 | 95.6 | 94.5 | 93.6 | 87.9 |
| PND8 | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION ζ TEST POINT 6/1/2 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(5131m²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 22.0
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160. J. 0. 0. 0. 0. P.H.
 FREQ. (0.70)(0.87)(1.05)(1.22)(1.43)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0)(3.0)(3.0)

| NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 90.5 | 91.4 | 92.7 | 96.7 | 97.1 | 99.7 | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ROG. NO. | 79.9 | 88.7 | 96.4 | 87.5 | 89.5 | 89.7 | 89.8 | 90.5 | 91.4 | 92.7 | 96.7 | 97.1 | 99.7 |
| RADIAL (12. 4) | 78.8 | 82.9 | 94.4 | 86.7 | 88.2 | 89.9 | 90.0 | 91.2 | 89.1 | 88.4 | 97.6 | 100.1 | 101.4 |
| VEHICLE CELL41 | 79.4 | 81.7 | 95.2 | 85.5 | 86.5 | 86.4 | 86.3 | 88.2 | 88.9 | 94.7 | 98.7 | 100.9 | 103.7 |
| COMP. NO. 0057 | 81.3 | 82.0 | 93.5 | 85.6 | 86.2 | 87.3 | 88.2 | 90.8 | 93.3 | 96.6 | 101.1 | 106.3 | 108.0 |
| LOC C41 ANECH CH | 80.1 | 84.3 | 96.1 | 85.9 | 86.7 | 88.6 | 91.0 | 92.9 | 94.3 | 99.2 | 105.6 | 108.5 | 139.6 |
| DATE 06-16-76 | 82.2 | 86.7 | 95.2 | 87.5 | 90.3 | 90.7 | 91.6 | 94.2 | 96.4 | 101.5 | 107.5 | 111.4 | 111.9 |
| RUN CONF0VELDEPN | 84.4 | 86.0 | 98.2 | 88.5 | 89.6 | 90.7 | 91.8 | 95.0 | 97.7 | 104.5 | 110.7 | 113.2 | 113.0 |
| TAPE X61130 | 84.8 | 85.8 | 97.8 | 88.6 | 89.7 | 91.8 | 92.7 | 95.3 | 99.0 | 106.4 | 112.8 | 114.5 | 112.8 |
| BAR 29.3 HG | 86.1 | 87.9 | 98.6 | 90.2 | 91.3 | 93.1 | 95.0 | 96.7 | 100.4 | 106.5 | 113.2 | 115.6 | 113.9 |
| (99009. N/M2) | 89.1 | 89.4 | 99.9 | 91.9 | 93.3 | 94.4 | 96.0 | 98.7 | 101.9 | 107.5 | 114.4 | 116.4 | 114.9 |
| TARB 57. DEG F | 92.2 | 93.2 | 104.2 | 94.3 | 94.9 | 96.0 | 96.9 | 99.5 | 102.2 | 107.8 | 113.8 | 115.7 | 115.2 |
| (287. DEG K) | 90.8 | 92.3 | 104.3 | 94.4 | 95.7 | 97.1 | 97.7 | 100.9 | 103.6 | 107.4 | 113.1 | 116.5 | 114.8 |
| TWET 55. DEG F | 92.9 | 93.4 | 102.9 | 94.7 | 95.5 | 97.2 | 97.8 | 100.0 | 104.7 | 107.7 | 112.2 | 116.1 | 114.7 |
| (286. DEG K) | 98.4 | 96.5 | 107.0 | 95.2 | 96.3 | 97.5 | 98.6 | 101.0 | 104.2 | 107.3 | 110.7 | 114.4 | 113.0 |
| HACT10.60 GM/M3 | 100.8 | 100.1 | 109.3 | 98.9 | 97.9 | 97.8 | 98.2 | 101.6 | 105.1 | 106.2 | 110.1 | 113.3 | 111.3 |
| (.01060 KG/M3) | 100.0 | 99.5 | 110.5 | 100.6 | 100.7 | 99.0 | 98.9 | 102.1 | 105.3 | 106.6 | 109.8 | 112.5 | 109.8 |
| 4000 98.0 | 98.1 | 109.3 | 99.4 | 100.7 | 100.6 | 99.9 | 99.9 | 102.6 | 104.6 | 105.7 | 108.4 | 110.3 | 107.3 |
| 5000 96.4 | 96.9 | 107.7 | 99.7 | 99.6 | 100.4 | 101.1 | 103.0 | 104.5 | 104.8 | 107.8 | 108.9 | 106.9 | 106.9 |
| 6300 94.7 | 95.8 | 106.8 | 98.3 | 100.2 | 100.8 | 102.2 | 103.6 | 105.1 | 104.9 | 107.1 | 108.8 | 106.8 | 106.8 |
| 8000 94.0 | 94.8 | 105.9 | 97.9 | 99.5 | 100.6 | 102.2 | 104.2 | 104.7 | 104.8 | 106.5 | 107.3 | 105.3 | 105.3 |
| 10000 91.7 | 95.3 | 105.9 | 97.4 | 99.2 | 99.3 | 101.7 | 103.9 | 104.6 | 103.8 | 106.0 | 107.3 | 105.5 | 105.5 |
| 12500 89.6 | 93.1 | 105.0 | 96.5 | 97.8 | 97.9 | 100.8 | 102.6 | 103.2 | 102.2 | 104.3 | 105.9 | 104.1 | 104.1 |
| 16000 88.0 | 91.5 | 103.2 | 95.6 | 97.1 | 97.2 | 99.6 | 100.7 | 102.4 | 100.7 | 102.8 | 104.1 | 102.7 | 102.7 |
| 20000 85.7 | 88.8 | 100.9 | 92.6 | 96.1 | 95.1 | 98.1 | 96.9 | 99.7 | 97.3 | 99.1 | 101.0 | 100.4 | 100.4 |
| 25000 82.3 | 86.9 | 97.8 | 89.9 | 92.8 | 92.3 | 93.6 | 94.3 | 97.4 | 94.0 | 97.3 | 96.6 | 97.2 | 97.2 |
| 31500 80.2 | 85.1 | 96.8 | 89.0 | 91.2 | 90.4 | 92.9 | 91.7 | 93.8 | 91.2 | 94.1 | 97.0 | 94.7 | 94.7 |
| 40000 75.6 | 80.3 | 93.7 | 85.0 | 86.5 | 86.3 | 88.8 | 86.9 | 89.5 | 87.7 | 90.7 | 92.3 | 91.1 | 91.1 |
| 50000 68.8 | 74.0 | 87.5 | 78.5 | 79.4 | 80.0 | 82.2 | 80.7 | 83.3 | 81.9 | 86.0 | 85.4 | 84.0 | 84.0 |
| 63000 62.5 | 67.0 | 81.7 | 72.4 | 71.9 | 72.8 | 75.4 | 74.4 | 76.5 | 76.4 | 81.4 | 78.6 | 77.1 | 77.1 |
| 80000 57.7 | 61.6 | 77.6 | 66.2 | 65.3 | 66.7 | 73.1 | 67.8 | 71.3 | 72.6 | 76.2 | 73.8 | 71.7 | 71.7 |
| OVERALL MEASURED | 107.5 | 107.8 | 118.6 | 109.3 | 110.4 | 110.7 | 112.0 | 114.0 | 116.2 | 118.5 | 123.4 | 125.9 | 124.7 |
| OVERALL CALCULATED | 121.0 | 121.2 | 132.0 | 122.5 | 123.1 | 123.4 | 123.7 | 126.1 | 128.6 | 130.7 | 134.6 | 137.1 | 135.5 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6/13 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-125cm²(19.4in²) SIZE

| ADG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 50 | 82.8 | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.45) | (2.62) | (2.79) | 156.6 |
| 63 | 84.9 | 87.1 | 89.4 | 91.7 | 94.0 | 96.3 | 98.6 | 100.9 | 103.2 | 105.5 | 107.8 | 110.1 | 112.4 | 114.7 | 158.9 |
| 80 | 87.2 | 89.5 | 91.8 | 94.1 | 96.4 | 98.7 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 160.9 |
| 100 | 89.5 | 91.8 | 94.1 | 96.4 | 98.7 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 162.9 |
| 125 | 91.8 | 94.1 | 96.4 | 98.7 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 164.0 |
| 160 | 94.1 | 96.4 | 98.7 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 165.9 |
| 200 | 96.4 | 98.7 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 167.7 |
| 250 | 98.7 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 169.5 |
| 315 | 101.0 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 171.3 |
| 400 | 103.3 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 173.1 |
| 500 | 105.6 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 174.9 |
| 630 | 107.9 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 176.7 |
| 800 | 110.2 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 178.5 |
| 1000 | 112.5 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 180.3 |
| 1250 | 114.8 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 182.1 |
| 1600 | 117.1 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 183.9 |
| 2000 | 119.4 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 185.7 |
| 2500 | 121.7 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 187.5 |
| 3150 | 124.0 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 189.3 |
| 4000 | 126.3 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 191.1 |
| 5000 | 128.6 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 192.9 |
| 6300 | 130.9 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 160.8 | 194.7 |
| 8000 | 133.2 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 160.8 | 163.1 | 196.5 |
| 10000 | 135.5 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 160.8 | 163.1 | 165.4 | 198.3 |
| 12500 | 137.8 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 160.8 | 163.1 | 165.4 | 167.7 | 200.1 |
| 16000 | 140.1 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 160.8 | 163.1 | 165.4 | 167.7 | 170.0 | 201.9 |
| PN08 | 142.4 | 144.7 | 147.0 | 149.3 | 151.6 | 153.9 | 156.2 | 158.5 | 160.8 | 163.1 | 165.4 | 167.7 | 170.0 | 172.3 | 203.7 |
| OVERALL CALCULATED | | | | | | | | | | | | | | | |
| 110.4 110.9 121.8 112.6 113.8 114.0 115.2 117.3 119.4 121.5 126.2 128.7 127.4 | | | | | | | | | | | | | | | |
| * 126.3 128.2 129.6 131.5 131.4 134.6 136.5 135.0 | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **C** TEST POINT **6/13** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

| NO EGA | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | 210. | 220. | 230. | 240. | | |
| FREQ. (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) | (2.97) | (3.14) | (3.32) | (3.49) | (3.67) | (3.84) | (4.02) | (4.19) | (4.37) | (4.54) | |
| 50 | 54.6 | 60.5 | 73.3 | 63.8 | 65.1 | 67.1 | 69.3 | 70.8 | 71.6 | 75.3 | 80.2 | 80.9 | 78.4 | 80.7 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 63 | 56.7 | 62.8 | 72.4 | 65.4 | 68.7 | 69.2 | 69.9 | 72.1 | 73.6 | 77.6 | 82.0 | 83.6 | 80.7 | 80.7 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 80 | 58.9 | 62.0 | 75.3 | 66.4 | 67.9 | 69.1 | 70.1 | 72.9 | 74.3 | 80.6 | 85.2 | 85.3 | 81.5 | 81.5 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 100 | 59.1 | 61.7 | 74.8 | 66.4 | 67.9 | 70.1 | 70.9 | 73.1 | 76.1 | 82.3 | 87.1 | 86.5 | 81.2 | 81.2 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 125 | 60.3 | 63.7 | 75.6 | 67.9 | 69.9 | 71.4 | 73.2 | 74.4 | 77.4 | 83.2 | 87.4 | 87.4 | 82.0 | 82.0 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 160 | 63.1 | 65.1 | 76.7 | 69.5 | 71.3 | 72.6 | 74.1 | 76.3 | 78.7 | 83.2 | 88.5 | 88.5 | 84.0 | 84.0 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 200 | 66.0 | 68.7 | 80.9 | 71.7 | 72.8 | 74.0 | 74.8 | 77.0 | 78.9 | 83.3 | 87.6 | 87.6 | 82.0 | 82.0 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 250 | 64.3 | 67.6 | 80.8 | 71.6 | 73.4 | 74.9 | 75.4 | 78.1 | 80.1 | 82.7 | 86.7 | 87.0 | 82.0 | 82.0 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 315 | 66.1 | 68.4 | 79.2 | 71.8 | 73.1 | 74.8 | 75.3 | 77.0 | 80.9 | 82.8 | 85.4 | 86.7 | 80.9 | 80.9 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 400 | 71.2 | 71.1 | 52.9 | 72.0 | 73.6 | 74.9 | 75.8 | 77.6 | 80.2 | 82.0 | 83.5 | 84.4 | 78.4 | 78.4 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 500 | 73.1 | 74.3 | 84.9 | 75.3 | 74.9 | 74.9 | 75.1 | 78.0 | 80.6 | 80.4 | 82.4 | 82.6 | 75.7 | 75.7 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 630 | 71.6 | 73.2 | 85.7 | 76.6 | 77.2 | 75.7 | 75.4 | 78.1 | 80.4 | 80.3 | 81.5 | 81.0 | 72.9 | 72.9 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 800 | 68.8 | 71.1 | 83.8 | 74.8 | 76.7 | 76.7 | 76.7 | 79.1 | 79.1 | 78.7 | 79.2 | 77.6 | 68.8 | 68.8 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 1000 | 66.1 | 69.1 | 81.4 | 74.5 | 74.9 | 76.0 | 76.4 | 77.5 | 77.5 | 77.9 | 76.9 | 77.5 | 74.9 | 74.9 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 1250 | 63.2 | 66.9 | 79.6 | 72.3 | 74.7 | 75.5 | 76.7 | 77.5 | 77.5 | 77.9 | 76.0 | 75.6 | 73.1 | 73.1 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 1600 | 60.7 | 64.5 | 77.5 | 70.7 | 72.9 | 74.3 | 75.7 | 76.9 | 76.2 | 74.4 | 73.1 | 69.3 | 50.7 | 50.7 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 2000 | 56.3 | 63.2 | 76.0 | 66.8 | 71.4 | 71.8 | 73.9 | 75.3 | 74.7 | 71.7 | 70.5 | 66.5 | 54.7 | 54.7 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 2500 | 51.2 | 58.6 | 73.0 | 66.0 | 68.2 | 68.6 | 71.2 | 72.2 | 67.2 | 67.0 | 62.3 | 59.5 | 52.8 | 52.8 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 3150 | 44.7 | 53.0 | 67.8 | 62.1 | 64.7 | 65.1 | 67.2 | 67.2 | 67.2 | 67.0 | 62.3 | 59.5 | 52.8 | 52.8 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| TAPE X61130 | 35.1 | 44.3 | 60.3 | 54.3 | 59.1 | 58.7 | 61.1 | 58.7 | 59.1 | 52.8 | 48.5 | 40.0 | 18.9 | 18.9 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 4000 | 35.1 | 44.3 | 60.3 | 54.3 | 59.1 | 58.7 | 61.1 | 58.7 | 59.1 | 52.8 | 48.5 | 40.0 | 18.9 | 18.9 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| FAN TIP SPEED FT/SEC | 26.3 | 39.8 | 55.1 | 49.8 | 54.2 | 55.0 | 54.2 | 54.2 | 54.2 | 47.1 | 44.0 | 42.6 | 34.3 | 34.3 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 6300 | 14.0 | 28.1 | 45.6 | 41.3 | 45.4 | 45.2 | 47.1 | 44.0 | 42.6 | 34.3 | 27.9 | 14.9 | 14.9 | 14.9 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 8000 | 8.1 | 29.4 | 25.4 | 29.6 | 30.2 | 31.8 | 27.9 | 25.2 | 15.5 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 10000 | 4.8 | 4.8 | 2.3 | 6.7 | 8.4 | 9.6 | 4.5 | 4.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 12500 | 2.3 | 2.3 | 6.7 | 8.4 | 9.6 | 4.5 | 4.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| 16000 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 83.6 | 85.2 | 85.3 | 81.5 | 81.2 | 87.4 | 82.0 | 82.7 | 82.6 |
| OVERALL CALCULATED | 79.0 | 80.9 | 93.0 | 84.3 | 85.6 | 86.3 | 87.0 | 88.9 | 90.7 | 92.9 | 96.5 | 96.6 | 91.5 | 91.5 | 93.6 | 95.2 | 95.3 | 91.5 | 91.2 | 97.4 | 92.0 | 92.7 | 92.6 |
| PN08 | 84.7 | 87.5 | 99.9 | 91.6 | 93.7 | 94.4 | 95.7 | 97.1 | 97.8 | 97.8 | 99.9 | 99.6 | 93.0 | 93.0 | 95.1 | 95.2 | 95.3 | 91.5 | 91.2 | 97.4 | 92.0 | 92.7 | 92.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6113 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160. G. P.WL
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. G. P.WL
 FREQ. (C.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)(3.2)(3.4)(3.6)

| NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ROG. NO. G. | 72.6 | 82.2 | 80.2 | 83.7 | 82.0 | 82.7 | 82.8 | 83.7 | 84.4 | 85.7 | 86.7 | 87.0 | 87.1 |
| RADIAL (12. M) | 72.3 | 76.4 | 78.1 | 79.9 | 81.5 | 82.9 | 84.4 | 85.7 | 87.0 | 88.3 | 89.6 | 90.9 | 92.1 |
| VEHICLE CELL41 | 72.9 | 75.9 | 78.2 | 78.0 | 79.5 | 79.4 | 79.5 | 82.0 | 83.4 | 84.8 | 86.2 | 87.6 | 88.5 |
| CONFIG NC58 | 75.5 | 76.0 | 77.3 | 79.8 | 81.3 | 81.4 | 84.3 | 86.8 | 88.8 | 90.4 | 92.4 | 94.3 | 95.5 |
| LOC C41 ARECH CH | 75.1 | 77.8 | 79.1 | 79.4 | 81.0 | 82.3 | 84.2 | 85.6 | 87.8 | 89.4 | 91.4 | 93.8 | 95.5 |
| DATE 06-16-76 | 76.4 | 79.2 | 79.7 | 81.7 | 84.1 | 84.4 | 84.8 | 87.7 | 90.7 | 95.0 | 98.7 | 100.6 | 101.2 |
| RUN CONF6VELDEPA | 77.4 | 79.7 | 82.2 | 82.5 | 84.1 | 85.0 | 85.6 | 88.7 | 91.7 | 96.8 | 100.5 | 101.7 | 101.0 |
| TAPE X6114C | 78.5 | 80.3 | 82.0 | 83.1 | 84.4 | 86.0 | 86.4 | 89.6 | 93.0 | 98.1 | 100.8 | 101.0 | 99.5 |
| BAR 29.4 HG | 75.6 | 81.9 | 83.1 | 84.4 | 86.0 | 86.9 | 88.3 | 90.7 | 94.6 | 98.5 | 100.9 | 100.3 | 98.1 |
| (9212. N/M2) | 80.9 | 83.4 | 84.7 | 86.2 | 87.5 | 88.4 | 89.3 | 92.7 | 96.7 | 100.5 | 101.9 | 100.6 | 98.1 |
| TAMB 56. DEG F | 82.2 | 84.7 | 86.7 | 87.0 | 88.6 | 89.7 | 90.9 | 93.5 | 97.2 | 101.1 | 101.8 | 99.7 | 97.7 |
| (286. DEG K) | 82.0 | 85.1 | 87.8 | 87.9 | 88.9 | 91.1 | 91.7 | 94.6 | 98.3 | 102.1 | 101.8 | 101.0 | 98.3 |
| 1600 54. DEG F | 82.1 | 86.4 | 87.2 | 88.7 | 90.3 | 91.9 | 92.8 | 95.0 | 99.9 | 101.7 | 102.5 | 101.4 | 98.7 |
| 2000 54. DEG K | 82.7 | 86.5 | 88.5 | 88.5 | 90.6 | 92.2 | 94.1 | 96.7 | 100.7 | 102.0 | 102.5 | 101.9 | 99.0 |
| (235. DEG K) | 82.5 | 86.1 | 88.6 | 89.4 | 91.4 | 92.6 | 94.4 | 97.4 | 102.1 | 101.7 | 102.9 | 102.8 | 99.1 |
| HACT10.22 GM/M3 | 82.5 | 86.8 | 90.0 | 90.8 | 92.4 | 93.3 | 95.4 | 98.8 | 103.3 | 102.9 | 103.6 | 103.3 | 100.0 |
| (.01022 KG/M3) | 82.8 | 86.1 | 89.8 | 90.1 | 92.2 | 93.8 | 96.2 | 101.1 | 102.6 | 103.4 | 103.6 | 103.8 | 99.8 |
| FREQ. SHIFT | 82.4 | 86.4 | 90.0 | 91.8 | 92.8 | 94.9 | 97.3 | 101.0 | 103.5 | 103.6 | 104.8 | 104.9 | 101.2 |
| JET | 82.5 | 86.8 | 90.3 | 91.6 | 94.4 | 96.8 | 99.2 | 102.1 | 103.1 | 103.9 | 105.4 | 105.8 | 101.5 |
| DIAMETER RATIO | 82.5 | 86.9 | 90.4 | 92.7 | 95.5 | 98.1 | 100.5 | 102.9 | 102.7 | 104.5 | 105.5 | 105.1 | 101.4 |
| 0.05/DM 1 | 81.9 | 87.6 | 91.2 | 93.1 | 96.2 | 97.6 | 101.2 | 103.1 | 102.9 | 103.3 | 104.0 | 105.6 | 102.1 |
| | 80.6 | 86.9 | 91.0 | 92.7 | 95.3 | 96.9 | 100.3 | 101.4 | 101.5 | 102.0 | 102.4 | 103.9 | 101.4 |
| | 80.7 | 87.5 | 91.5 | 93.6 | 95.4 | 96.9 | 99.7 | 99.4 | 101.0 | 100.2 | 103.8 | 103.1 | 100.0 |
| | 78.3 | 85.6 | 89.5 | 91.4 | 94.6 | 94.4 | 97.9 | 96.4 | 98.5 | 97.3 | 97.4 | 100.3 | 98.5 |
| | 75.6 | 82.7 | 85.7 | 88.4 | 91.4 | 92.9 | 94.3 | 96.2 | 93.6 | 92.2 | 91.8 | 95.2 | 94.2 |
| | 73.5 | 75.9 | 84.1 | 86.8 | 90.0 | 90.0 | 92.2 | 91.6 | 93.2 | 91.8 | 92.0 | 95.1 | 92.3 |
| | 67.7 | 74.9 | 80.3 | 82.8 | 84.4 | 84.9 | 87.9 | 87.3 | 89.1 | 88.5 | 89.1 | 90.4 | 87.9 |
| | 60.5 | 67.4 | 73.9 | 76.4 | 76.7 | 78.3 | 79.6 | 80.6 | 82.5 | 83.1 | 83.1 | 80.1 | 80.1 |
| | 53.9 | 59.7 | 67.4 | 69.3 | 70.0 | 70.7 | 71.8 | 74.1 | 75.9 | 76.9 | 77.9 | 73.5 | 73.5 |
| | 48.3 | 52.9 | 60.5 | 63.8 | 64.2 | 65.4 | 66.8 | 68.3 | 71.0 | 73.1 | 73.1 | 68.7 | 67.6 |
| OVERALL MEASURED | 94.4 | 92.7 | 101.8 | 103.3 | 105.5 | 106.9 | 109.5 | 111.6 | 113.5 | 114.6 | 115.6 | 116.0 | 113.4 |
| OVERALL CALCULATED | 106.8 | 110.6 | 113.6 | 114.3 | 116.1 | 118.0 | 120.0 | 122.9 | 125.8 | 126.9 | 127.8 | 127.9 | 124.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6114 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-125cm²(19.4in²) SIZE

| PAGE 1 | | FULL SCALE DATA REDUCTION PROGRAM | | | | PROC. DATE - MONTH 9 DAY 7 HR. 17.6 | | | | HUR. DAY - JENOTS | | | | |
|---------------------------------|--------|--|--------|--------|--------|-------------------------------------|--------|--------|--------|---------------------------------------|--------|--------|--------|-------------------------|
| FULL SIZE SOUND PRESSURE LEVELS | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | INLET IN DEGREES (AND RADIAN) | | | | 0. 0. 0. 0.) (0.) (0.) (0.) (0.) | | | | |
| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| NO EGA | (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 | 77.8 | 80.6 | 81.3 | 82.1 | 83.7 | 85.1 | 87.0 | 88.4 | 90.6 | 95.2 | 100.1 | 101.6 | 102.1 | 149.5 |
| 63 | 79.2 | 81.9 | 82.4 | 84.5 | 86.8 | 87.2 | 87.6 | 90.5 | 93.4 | 97.8 | 101.5 | 103.4 | 103.9 | 149.3 |
| 80 | 80.2 | 82.5 | 85.0 | 85.3 | 86.9 | 87.7 | 88.4 | 91.5 | 94.5 | 99.5 | 103.2 | 104.4 | 103.7 | 150.4 |
| 100 | 81.3 | 83.0 | 84.3 | 85.8 | 87.2 | 88.8 | 89.2 | 92.3 | 95.8 | 100.9 | 103.6 | 103.8 | 102.3 | 150.5 |
| 125 | 82.4 | 84.6 | 85.0 | 87.2 | 86.8 | 89.6 | 91.0 | 92.1 | 95.5 | 99.4 | 101.2 | 103.7 | 103.1 | 150.9 |
| 160 | 83.6 | 86.2 | 87.4 | 89.0 | 90.3 | 91.2 | 92.1 | 95.5 | 99.4 | 103.2 | 104.7 | 103.4 | 100.9 | 151.8 |
| 200 | 85.0 | 87.5 | 89.5 | 89.8 | 91.4 | 92.5 | 93.6 | 96.3 | 100.0 | 103.8 | 104.5 | 102.5 | 100.5 | 152.0 |
| 250 | 84.8 | 87.8 | 90.6 | 90.6 | 91.7 | 93.8 | 94.5 | 97.4 | 101.1 | 104.9 | 104.6 | 103.8 | 101.1 | 152.8 |
| 315 | 84.9 | 89.2 | 90.0 | 91.5 | 93.1 | 94.7 | 95.6 | 97.7 | 102.7 | 104.5 | 105.2 | 104.2 | 101.4 | 153.3 |
| 400 | 85.5 | 89.2 | 91.3 | 91.3 | 93.4 | 95.0 | 96.9 | 99.5 | 103.5 | 104.8 | 105.3 | 104.7 | 101.7 | 153.8 |
| 500 | 85.3 | 88.9 | 91.4 | 92.2 | 94.2 | 95.4 | 97.2 | 100.2 | 104.9 | 104.5 | 105.7 | 105.6 | 101.9 | 154.4 |
| 630 | 85.3 | 89.6 | 92.9 | 93.7 | 95.3 | 96.7 | 99.1 | 101.7 | 106.1 | 105.7 | 106.4 | 106.1 | 102.9 | 155.4 |
| 800 | 85.6 | 89.0 | 92.7 | 93.0 | 95.1 | 96.7 | 99.1 | 103.0 | 105.5 | 106.3 | 106.5 | 106.7 | 102.7 | 155.7 |
| 1000 | 85.3 | 89.3 | 92.9 | 94.6 | 95.7 | 97.8 | 100.2 | 103.9 | 106.4 | 106.5 | 107.7 | 107.8 | 104.1 | 156.6 |
| 1250 | 85.5 | 89.8 | 93.3 | 94.6 | 97.4 | 99.8 | 102.2 | 105.1 | 106.1 | 106.9 | 108.4 | 108.8 | 104.5 | 157.4 |
| 1600 | 85.7 | 90.0 | 93.6 | 95.8 | 98.6 | 101.2 | 103.6 | 106.1 | 105.8 | 107.7 | 108.6 | 108.2 | 104.5 | 157.9 |
| 2000 | 85.3 | 90.9 | 96.5 | 96.5 | 99.6 | 100.9 | 104.6 | 106.5 | 106.3 | 106.7 | 107.4 | 103.9 | 103.4 | 158.1 |
| 2500 | 84.3 | 90.6 | 94.7 | 96.4 | 99.0 | 100.6 | 104.0 | 105.1 | 105.2 | 105.7 | 106.1 | 107.6 | 105.1 | 157.0 |
| 3150 | 85.0 | 91.8 | 95.8 | 97.9 | 99.7 | 100.3 | 104.0 | 103.7 | 105.3 | 104.5 | 105.1 | 107.4 | 104.3 | 157.2 |
| 4000 | 83.2 | 90.6 | 94.5 | 96.3 | 99.6 | 99.4 | 102.8 | 101.4 | 103.5 | 102.3 | 102.4 | 105.3 | 103.4 | 155.6 |
| 5000 | 81.9 | 89.0 | 91.9 | 94.7 | 97.7 | 97.6 | 99.2 | 100.6 | 102.4 | 99.9 | 101.9 | 101.5 | 100.5 | 153.8 |
| 6300 | 81.4 | 87.8 | 92.0 | 94.7 | 97.9 | 97.9 | 100.0 | 99.4 | 101.0 | 99.7 | 99.8 | 102.9 | 100.1 | 154.0 |
| 8000 | 77.9 | 85.1 | 90.5 | 93.0 | 94.6 | 95.1 | 98.1 | 98.1 | 97.5 | 99.3 | 98.7 | 99.3 | 100.6 | 153.0 |
| 10000 | 74.1 | 80.6 | 87.2 | 89.7 | 90.0 | 91.6 | 92.8 | 93.8 | 95.7 | 95.8 | 96.3 | 96.3 | 93.3 | 150.5 |
| 12500 | 71.6 | 77.4 | 85.1 | 87.0 | 87.7 | 88.4 | 89.5 | 91.8 | 93.6 | 94.6 | 95.6 | 93.5 | 91.2 | 154.5 |
| 16000 | 72.4 | 76.8 | 84.5 | 87.9 | 88.3 | 89.4 | 90.8 | 92.3 | 95.1 | 97.1 | 97.2 | 92.7 | 91.7 | 154.5 |
| OVERALL CALCULATED | 97.6 | 102.2 | 105.5 | 107.2 | 109.5 | 110.7 | 113.5 | 115.1 | 117.0 | 117.8 | 118.8 | 119.2 | 116.5 | 168.6 |
| PND3 | 109.7 | 115.4 | 119.0 | 120.9 | 123.0 | 123.9 | 126.8 | 127.8 | 129.5 | 129.7 | 130.4 | 131.6 | 128.8 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION G_{111} TEST POINT G_{111} ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | |
|--|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|------|------|------|------|------|------|----|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| FREQ. | (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.) | (0.) | (0.) | |
| 50 | 49.6 | 54.0 | 56.3 | 57.3 | 59.3 | 60.8 | 62.6 | 63.6 | 65.1 | 68.5 | 71.9 | 71.1 | 68.2 | | | | | | | |
| 63 | 50.9 | 55.3 | 56.9 | 59.6 | 62.4 | 62.9 | 63.2 | 65.6 | 67.9 | 71.1 | 73.2 | 72.9 | 69.9 | | | | | | | |
| 80 | 51.9 | 55.7 | 59.3 | 60.4 | 62.4 | 63.4 | 63.9 | 66.6 | 68.8 | 72.8 | 74.9 | 73.8 | 69.5 | | | | | | | |
| 100 | 52.8 | 56.2 | 59.1 | 60.9 | 62.6 | 64.4 | 64.6 | 67.4 | 70.1 | 74.0 | 75.1 | 73.0 | 67.9 | | | | | | | |
| 125 | 53.8 | 57.7 | 60.1 | 62.1 | 64.2 | 65.2 | 66.4 | 68.4 | 71.6 | 74.3 | 75.1 | 72.2 | 66.3 | | | | | | | |
| 160 | 54.9 | 59.1 | 61.5 | 63.8 | 65.6 | 66.6 | 67.3 | 70.3 | 73.5 | 76.2 | 76.0 | 72.2 | 65.9 | | | | | | | |
| 200 | 56.0 | 60.2 | 63.4 | 64.5 | 66.5 | 67.8 | 68.8 | 71.0 | 73.9 | 76.6 | 75.6 | 71.0 | 65.1 | | | | | | | |
| 250 | 55.6 | 60.4 | 64.3 | 65.1 | 66.7 | 68.9 | 69.4 | 71.9 | 74.8 | 77.4 | 75.4 | 72.0 | 65.2 | | | | | | | |
| 315 | 55.4 | 61.4 | 65.4 | 65.8 | 67.8 | 69.6 | 70.3 | 72.0 | 76.2 | 76.8 | 75.7 | 71.9 | 64.9 | | | | | | | |
| 400 | 55.5 | 61.1 | 64.4 | 65.3 | 67.5 | 69.6 | 71.3 | 73.5 | 76.7 | 76.7 | 73.3 | 71.9 | 64.4 | | | | | | | |
| NFD 7500. RPM | 54.8 | 60.3 | 64.1 | 65.8 | 68.4 | 69.7 | 71.4 | 73.8 | 77.6 | 75.6 | 75.6 | 72.1 | 63.5 | | | | | | | |
| AIRFLOW RATIO | 54.1 | 60.5 | 65.2 | 66.8 | 68.9 | 70.0 | 71.9 | 74.8 | 78.4 | 76.6 | 75.2 | 71.7 | 63.2 | | | | | | | |
| WF/WM 5.15 | 53.5 | 59.1 | 64.3 | 65.6 | 68.2 | 70.0 | 72.2 | 75.6 | 77.1 | 76.4 | 74.4 | 71.1 | 61.3 | | | | | | | |
| VEHICLE CELL41 | 52.1 | 58.6 | 63.7 | 66.5 | 68.2 | 70.5 | 72.7 | 75.7 | 77.2 | 75.7 | 74.5 | 70.9 | 60.6 | | | | | | | |
| CONFIG NC58 | 50.9 | 57.9 | 63.1 | 65.5 | 69.0 | 71.5 | 73.7 | 76.0 | 75.9 | 75.0 | 73.8 | 70.1 | 58.4 | | | | | | | |
| LDC C41 ANECH CH | 49.2 | 56.5 | 62.0 | 65.4 | 69.0 | 71.8 | 74.0 | 75.7 | 74.2 | 72.1 | 72.1 | 67.0 | 54.7 | | | | | | | |
| DATE 06-16-76 | 46.5 | 55.5 | 61.2 | 64.6 | 68.4 | 70.0 | 73.4 | 74.6 | 73.0 | 71.2 | 68.6 | 64.7 | 51.2 | | | | | | | |
| RUN CONF0VELDEPN | 42.2 | 52.4 | 57.0 | 62.3 | 65.7 | 67.6 | 70.7 | 70.9 | 69.5 | 67.4 | 63.9 | 59.1 | 44.4 | | | | | | | |
| TAPE X61140 | 37.5 | 49.1 | 56.1 | 60.1 | 63.0 | 63.9 | 67.2 | 65.9 | 65.6 | 61.8 | 57.6 | 51.8 | 33.3 | | | | | | | |
| FAN TIP SPEED | 27.6 | 41.1 | 48.9 | 53.1 | 57.7 | 57.9 | 60.9 | 58.2 | 57.9 | 52.9 | 46.8 | 39.3 | 17.0 | | | | | | | |
| FT/SEC | 21.6 | 35.6 | 42.9 | 48.4 | 52.8 | 53.2 | 54.3 | 54.2 | 53.4 | 46.5 | 41.6 | 29.3 | 5.1 | | | | | | | |
| 5000 | 21.6 | 35.6 | 42.9 | 48.4 | 52.8 | 53.2 | 54.3 | 54.2 | 53.4 | 46.5 | 41.6 | 29.3 | 5.1 | | | | | | | |
| 6300 | 7.3 | 23.0 | 32.9 | 39.1 | 44.2 | 44.8 | 46.4 | 43.9 | 41.9 | 34.9 | 25.8 | 13.0 | | | | | | | | |
| 8000 | | 2.7 | 16.0 | 23.3 | 27.4 | 28.8 | 30.9 | 27.8 | 24.8 | 16.4 | 4.1 | | | | | | | | | |
| 10000 | | | 0.2 | 4.1 | 6.8 | 6.9 | 4.4 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 65.8 | 71.1 | 75.1 | 77.0 | 79.6 | 81.4 | 83.3 | 85.5 | 87.3 | 87.6 | 86.9 | 83.9 | 77.6 | | | | | | | |
| PND8 | 70.5 | 78.0 | 83.2 | 86.1 | 89.3 | 90.9 | 93.5 | 94.9 | 95.1 | 94.5 | 92.9 | 88.6 | 79.6 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6//4 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO EGA | PROC. DATE - MONTH 8 DAY 26 HR. 22.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|--------------------------------------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|---|--|--|-----|--|--|------|--|--|------|--|--|------|--|--|------|--|--|------|--|--|------|--|--|------|
| | | 40. | | | 50. | | | 60. | | | 70. | | | 80. | | | 90. | | | 100. | | | 110. | | | 120. | | | 130. | | | 140. | | | 150. | | | 160. |
| 100 | 74.9 | 95.2 | 92.9 | 84.2 | 85.5 | 85.9 | 86.0 | 87.0 | 87.4 | 89.7 | 93.7 | 92.9 | 95.4 | 131.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 75.1 | 79.1 | 91.1 | 82.9 | 84.7 | 86.4 | 85.7 | 87.9 | 85.9 | 85.9 | 93.9 | 95.1 | 96.1 | 131.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 75.4 | 78.4 | 91.4 | 81.7 | 82.5 | 82.7 | 83.3 | 85.2 | 86.4 | 91.7 | 94.9 | 95.1 | 98.7 | 132.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 78.3 | 78.5 | 90.5 | 82.6 | 82.9 | 84.0 | 84.4 | 87.3 | 89.8 | 93.1 | 97.1 | 101.3 | 102.6 | 135.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 77.8 | 80.6 | 92.1 | 82.4 | 83.5 | 85.1 | 87.2 | 89.4 | 90.8 | 95.9 | 101.1 | 103.0 | 104.1 | 137.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 315 | 78.7 | 82.7 | 92.2 | 84.5 | 86.3 | 87.2 | 87.8 | 90.2 | 93.4 | 97.5 | 102.0 | 105.4 | 105.9 | 139.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 80.9 | 82.7 | 94.7 | 85.0 | 86.3 | 87.2 | 88.6 | 91.5 | 94.7 | 99.5 | 104.5 | 106.2 | 106.0 | 140.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 82.0 | 83.3 | 95.0 | 85.6 | 87.2 | 88.8 | 89.9 | 92.3 | 95.5 | 101.1 | 105.1 | 106.7 | 105.8 | 140.9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 630 | 82.6 | 84.6 | 95.6 | 86.7 | 88.5 | 89.6 | 91.3 | 94.2 | 97.1 | 101.5 | 104.4 | 105.6 | 104.6 | 140.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 84.1 | 85.9 | 96.7 | 88.2 | 89.8 | 91.4 | 92.5 | 95.2 | 98.7 | 102.2 | 104.2 | 104.1 | 102.9 | 140.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 85.9 | 87.0 | 98.2 | 89.3 | 90.9 | 92.2 | 93.1 | 96.3 | 99.0 | 102.6 | 103.8 | 101.9 | 100.7 | 140.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1250 | 85.5 | 87.1 | 99.6 | 89.1 | 90.9 | 92.8 | 93.9 | 96.9 | 100.1 | 102.6 | 102.8 | 102.0 | 100.3 | 140.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | 85.9 | 88.2 | 98.9 | 90.5 | 92.3 | 93.4 | 94.3 | 97.0 | 100.7 | 103.2 | 103.0 | 101.9 | 100.7 | 140.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 86.4 | 88.0 | 99.5 | 90.5 | 92.3 | 93.7 | 95.6 | 98.0 | 101.0 | 102.8 | 102.7 | 102.2 | 100.0 | 140.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2500 | 86.3 | 88.6 | 100.3 | 90.9 | 92.4 | 93.8 | 94.9 | 98.4 | 102.1 | 102.7 | 102.9 | 101.8 | 100.8 | 141.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3150 | 87.0 | 88.8 | 100.5 | 91.8 | 93.7 | 93.8 | 96.2 | 99.3 | 102.3 | 103.6 | 103.8 | 102.7 | 101.8 | 141.9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 86.3 | 88.1 | 100.1 | 91.1 | 92.4 | 94.3 | 96.2 | 99.6 | 102.1 | 103.7 | 103.1 | 102.5 | 101.6 | 141.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5000 | 85.6 | 88.2 | 100.2 | 92.2 | 92.8 | 95.2 | 96.6 | 100.5 | 102.0 | 103.3 | 103.5 | 102.9 | 102.4 | 142.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6300 | 85.5 | 88.3 | 100.6 | 91.8 | 93.9 | 96.0 | 98.2 | 100.6 | 102.8 | 103.7 | 104.4 | 104.3 | 104.5 | 143.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8000 | 85.3 | 88.8 | 100.9 | 92.2 | 94.2 | 95.8 | 98.7 | 100.9 | 102.7 | 104.8 | 104.0 | 105.1 | 105.1 | 143.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10000 | 84.7 | 91.0 | 103.9 | 93.4 | 95.7 | 95.3 | 98.4 | 100.9 | 102.6 | 103.3 | 103.0 | 105.6 | 104.8 | 144.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | 83.3 | 92.1 | 104.2 | 94.0 | 94.3 | 95.1 | 97.5 | 98.6 | 100.7 | 101.9 | 101.8 | 103.6 | 103.4 | 143.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | 82.0 | 91.0 | 103.9 | 95.1 | 95.4 | 94.2 | 96.9 | 97.7 | 100.2 | 100.2 | 101.1 | 102.3 | 102.5 | 143.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20000 | 80.0 | 87.8 | 100.9 | 93.1 | 95.8 | 94.1 | 95.6 | 94.6 | 97.0 | 97.0 | 98.1 | 100.0 | 99.7 | 142.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25000 | 76.3 | 85.2 | 97.1 | 89.6 | 92.1 | 91.8 | 92.1 | 92.2 | 95.6 | 93.5 | 96.1 | 94.4 | 96.4 | 140.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31500 | 74.9 | 82.8 | 95.8 | 88.2 | 90.2 | 89.7 | 91.4 | 90.5 | 92.3 | 90.7 | 92.4 | 94.5 | 93.4 | 140.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 40000 | 69.4 | 77.8 | 92.2 | 83.7 | 84.8 | 85.3 | 87.0 | 86.2 | 88.2 | 88.7 | 89.4 | 90.0 | 89.8 | 139.9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 50000 | 62.5 | 71.2 | 86.5 | 77.3 | 77.6 | 78.4 | 79.4 | 79.2 | 82.0 | 82.4 | 83.9 | 82.6 | 82.2 | 137.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 63000 | 55.0 | 64.5 | 81.0 | 70.4 | 70.6 | 71.5 | 71.3 | 73.1 | 75.2 | 76.6 | 77.7 | 74.3 | 75.5 | 137.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 80000 | 48.6 | 60.0 | 77.2 | 64.9 | 64.3 | 65.4 | 66.3 | 66.8 | 70.5 | 72.8 | 72.6 | 68.2 | 69.9 | 142.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | 155.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | 97.7 101.4 113.5 104.4 106.0 106.7 108.6 110.9 113.5 115.3 116.4 117.1 116.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| PNDB | | | | | | | | | | | | | | 110.4 112.7 124.4 115.5 117.2 118.3 120.1 123.1 125.9 127.6 128.4 128.2 127.8 | | | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION \leftarrow TEST POINT \leftarrow ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-125cm²(19.4in²) SIZE

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PAL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 80.6 | 83.3 | 84.8 | 85.1 | 85.2 | 85.2 | 87.8 | 90.0 | 92.1 | 93.6 | 98.7 | 103.9 | 105.8 | 109.8 | 151.7 |
| 63 | 81.4 | 85.4 | 87.2 | 89.1 | 89.9 | 90.5 | 91.4 | 94.3 | 97.5 | 102.3 | 107.2 | 108.9 | 108.7 | 108.7 | 154.6 |
| 80 | 83.7 | 85.5 | 87.5 | 88.3 | 89.9 | 91.5 | 92.7 | 98.9 | 99.9 | 104.2 | 107.2 | 108.4 | 107.4 | 108.5 | 155.2 |
| 100 | 84.6 | 86.0 | 87.8 | 89.4 | 91.3 | 92.4 | 95.3 | 98.0 | 101.4 | 105.0 | 106.9 | 106.9 | 105.7 | 105.7 | 154.7 |
| 125 | 85.4 | 87.4 | 89.4 | 91.0 | 92.6 | 94.2 | 95.3 | 99.0 | 101.8 | 105.3 | 106.5 | 104.7 | 103.5 | 104.6 | 154.6 |
| 160 | 86.9 | 88.7 | 91.0 | 92.0 | 93.6 | 95.0 | 96.7 | 99.6 | 102.8 | 105.4 | 105.6 | 104.8 | 103.5 | 104.5 | 154.3 |
| 200 | 88.3 | 89.8 | 91.7 | 93.2 | 95.1 | 96.2 | 97.1 | 99.7 | 103.5 | 106.0 | 105.7 | 104.7 | 103.4 | 104.8 | 154.8 |
| 250 | 88.7 | 90.9 | 91.7 | 93.3 | 95.1 | 96.5 | 98.4 | 100.8 | 103.8 | 105.6 | 105.5 | 105.0 | 102.7 | 104.9 | 154.9 |
| 315 | 89.2 | 90.7 | 92.3 | 93.7 | 95.2 | 96.6 | 97.7 | 101.2 | 104.9 | 105.5 | 105.7 | 104.6 | 103.6 | 105.3 | 155.3 |
| 400 | 89.2 | 90.7 | 92.3 | 93.7 | 95.2 | 96.6 | 97.7 | 101.2 | 104.9 | 105.5 | 105.7 | 104.6 | 103.6 | 105.2 | 156.2 |
| 500 | 89.1 | 91.4 | 93.1 | 94.7 | 96.5 | 96.6 | 99.0 | 102.2 | 105.6 | 106.5 | 106.7 | 105.6 | 104.6 | 105.9 | 155.9 |
| 630 | 89.8 | 91.6 | 93.4 | 94.7 | 96.5 | 96.6 | 99.0 | 102.2 | 105.6 | 106.5 | 106.7 | 105.6 | 104.6 | 105.2 | 156.2 |
| 800 | 89.1 | 90.9 | 93.0 | 94.0 | 95.3 | 97.2 | 99.1 | 102.5 | 105.0 | 106.6 | 106.0 | 105.4 | 104.4 | 105.8 | 157.2 |
| 1000 | 88.5 | 91.1 | 93.1 | 95.1 | 95.7 | 98.1 | 99.5 | 103.4 | 104.9 | 106.2 | 106.4 | 105.8 | 105.3 | 107.5 | 157.8 |
| 1250 | 86.5 | 91.3 | 93.6 | 94.8 | 96.9 | 99.0 | 101.2 | 103.6 | 105.8 | 106.7 | 107.4 | 107.3 | 107.5 | 108.2 | 156.2 |
| 1600 | 88.4 | 92.0 | 94.1 | 95.3 | 97.4 | 99.0 | 101.9 | 104.1 | 105.8 | 107.9 | 107.1 | 108.2 | 108.2 | 108.2 | 157.6 |
| 2000 | 88.1 | 94.4 | 97.3 | 96.8 | 99.1 | 98.7 | 101.8 | 104.3 | 106.0 | 106.7 | 106.3 | 108.9 | 108.2 | 107.1 | 157.7 |
| 2500 | 87.1 | 95.8 | 108.0 | 97.7 | 98.0 | 98.8 | 101.2 | 102.3 | 104.5 | 104.5 | 105.3 | 106.6 | 106.8 | 106.3 | 156.3 |
| 3150 | 86.2 | 95.3 | 108.2 | 99.4 | 99.7 | 98.5 | 101.2 | 101.9 | 104.5 | 104.5 | 105.3 | 106.6 | 106.8 | 104.6 | 154.8 |
| 4000 | 84.9 | 92.8 | 105.9 | 98.0 | 100.8 | 99.1 | 100.5 | 99.6 | 101.9 | 102.0 | 103.1 | 105.0 | 104.6 | 102.7 | 154.1 |
| 5000 | 82.8 | 91.4 | 103.4 | 95.9 | 98.4 | 98.1 | 98.4 | 98.5 | 101.9 | 99.8 | 102.3 | 100.6 | 102.7 | 101.3 | 152.0 |
| 6300 | 82.8 | 90.7 | 103.6 | 96.1 | 98.1 | 97.5 | 99.2 | 98.3 | 100.2 | 98.5 | 100.2 | 102.3 | 101.3 | 100.0 | 151.9 |
| 8000 | 79.6 | 88.0 | 102.4 | 93.9 | 94.9 | 95.5 | 97.2 | 96.4 | 98.4 | 98.9 | 99.6 | 100.2 | 100.0 | 95.4 | 156.6 |
| 10000 | 75.8 | 84.5 | 99.8 | 90.5 | 90.3 | 91.7 | 92.7 | 92.4 | 95.3 | 95.6 | 97.2 | 95.9 | 95.4 | 93.2 | 156.6 |
| 12500 | 72.7 | 82.2 | 98.7 | 88.1 | 88.3 | 89.2 | 89.0 | 90.8 | 92.9 | 94.3 | 95.4 | 92.0 | 93.2 | 92.2 | 169.7 |
| 16000 | 72.7 | 84.1 | 101.3 | 88.9 | 88.3 | 89.4 | 90.3 | 90.8 | 94.6 | 96.9 | 96.7 | 92.2 | 93.9 | 119.7 | |
| OVERALL CALCULATED | 100.7 | 104.9 | 117.3 | 105.3 | 109.9 | 110.4 | 112.3 | 114.3 | 116.8 | 118.5 | 119.4 | 120.1 | 119.7 | 131.3 | |
| PNOB | 111.9 | 118.4 | 131.0 | 122.2 | 123.7 | 123.4 | 125.3 | 126.6 | 129.1 | 129.9 | 130.7 | 131.5 | 131.3 | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6115 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|---------------------|--|---|--------|--------|--------|--------|---|--------|--------|--------|--------|---------------|--------|------|------|
| | | FREQ. | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | REL. HUM. DAY | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 0. | 0. |
| | | (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.) |
| NO EGA | | 50 | 52.4 | 56.7 | 69.3 | 60.3 | 61.8 | 63.6 | 65.6 | 67.3 | 68.1 | 72.0 | 75.7 | 75.4 | 72.9 |
| SIDELINE 2400. FT. | | 63 | 53.2 | 58.8 | 69.4 | 62.4 | 64.7 | 65.7 | 66.2 | 68.1 | 70.6 | 73.6 | 76.5 | 77.6 | 74.7 |
| (731.52 M) | | 80 | 55.4 | 58.7 | 71.8 | 62.9 | 64.6 | 66.1 | 66.9 | 69.4 | 71.8 | 75.6 | 78.9 | 78.3 | 74.5 |
| MFA (0. RAD/SEC) | | 100 | 56.3 | 59.2 | 72.1 | 63.4 | 65.4 | 67.1 | 68.1 | 70.1 | 72.0 | 77.0 | 79.4 | 78.7 | 74.2 |
| MFK (1. RPM) | | 125 | 56.8 | 60.5 | 72.6 | 64.4 | 66.7 | 67.9 | 69.4 | 71.9 | 74.1 | 77.3 | 78.6 | 77.4 | 72.8 |
| MFD (0. RAD/SEC) | | 160 | 58.1 | 61.6 | 73.5 | 65.3 | 67.8 | 69.6 | 70.6 | 72.8 | 75.5 | 77.9 | 78.2 | 75.7 | 70.7 |
| MFE (1. RPM) | | 200 | 59.0 | 62.5 | 74.9 | 66.7 | 68.8 | 70.3 | 71.0 | 73.7 | 75.7 | 78.1 | 77.6 | 73.3 | 68.1 |
| MFF (0. RAD/SEC) | | 250 | 59.1 | 62.4 | 76.1 | 66.4 | 68.7 | 70.7 | 71.7 | 74.1 | 76.6 | 77.9 | 76.4 | 73.0 | 67.2 |
| MFG (785. RAD/SEC) | | 315 | 59.1 | 63.2 | 75.2 | 67.5 | 69.8 | 71.1 | 71.8 | 74.0 | 76.9 | 78.3 | 76.2 | 72.4 | 66.9 |
| MFH (0. RAD/SEC) | | 400 | 59.2 | 62.6 | 75.4 | 67.3 | 69.6 | 71.1 | 72.8 | 74.8 | 76.9 | 77.5 | 75.5 | 72.2 | 65.4 |
| MFI (785. RAD/SEC) | | 500 | 58.6 | 62.8 | 75.9 | 67.3 | 69.4 | 70.9 | 71.9 | 74.8 | 77.6 | 76.9 | 75.1 | 71.1 | 65.2 |
| MFL (0. RAD/SEC) | | 630 | 58.6 | 62.5 | 75.7 | 67.8 | 70.2 | 70.5 | 72.7 | 75.3 | 77.9 | 77.3 | 75.5 | 71.2 | 64.9 |
| MFM (5.15) | | 800 | 57.0 | 61.1 | 74.6 | 66.6 | 68.4 | 70.5 | 72.2 | 75.1 | 76.6 | 76.7 | 73.9 | 69.9 | 63.0 |
| MFN (0. RAD/SEC) | | 1000 | 55.4 | 60.3 | 73.9 | 67.0 | 68.2 | 70.7 | 71.9 | 75.2 | 75.7 | 75.4 | 73.2 | 68.9 | 61.9 |
| MFO (0. RAD/SEC) | | 1250 | 53.9 | 59.4 | 73.4 | 65.8 | 68.5 | 70.8 | 72.7 | 74.5 | 75.6 | 74.8 | 72.8 | 68.6 | 61.4 |
| MFP (0. RAD/SEC) | | 1600 | 51.9 | 58.5 | 72.5 | 64.9 | 67.7 | 69.5 | 72.2 | 73.7 | 74.2 | 74.4 | 70.6 | 67.0 | 58.4 |
| MFS (0. RAD/SEC) | | 2000 | 49.3 | 59.0 | 74.0 | 64.8 | 67.9 | 67.8 | 70.7 | 72.3 | 72.7 | 71.2 | 67.5 | 64.7 | 53.9 |
| MFT (0. RAD/SEC) | | 2500 | 44.9 | 57.6 | 72.2 | 63.5 | 64.7 | 65.8 | 67.9 | 68.2 | 68.7 | 67.4 | 63.4 | 58.8 | 46.4 |
| MFU (0. RAD/SEC) | | 3150 | 38.7 | 52.5 | 68.5 | 61.6 | 62.9 | 62.1 | 64.4 | 64.2 | 64.8 | 61.8 | 57.8 | 51.0 | 35.8 |
| MFV (0. RAD/SEC) | | 4000 | 29.3 | 43.3 | 60.3 | 54.8 | 58.9 | 57.7 | 58.6 | 56.4 | 56.4 | 52.5 | 47.5 | 39.0 | 18.2 |
| MFW (0. RAD/SEC) | | 5000 | 22.3 | 38.1 | 54.3 | 49.5 | 53.5 | 53.7 | 53.5 | 52.2 | 52.9 | 46.5 | 42.0 | 28.5 | 7.2 |
| MFX (0. RAD/SEC) | | 6300 | 8.7 | 25.9 | 44.6 | 40.5 | 44.4 | 44.5 | 45.6 | 42.8 | 41.1 | 33.8 | 26.2 | 12.4 | |
| MFY (0. RAD/SEC) | | 8000 | | 5.6 | 27.9 | 24.2 | 27.8 | 29.2 | 30.1 | 26.6 | 23.9 | 16.5 | 4.5 | | |
| MFZ (0. RAD/SEC) | | 10000 | | | 3.7 | 1.1 | 4.9 | 6.9 | 6.8 | 3.0 | 2.6 | 1.5 | | | |
| MFA (0. RAD/SEC) | | 12500 | | | | | | | | | | | | | |
| MFB (0. RAD/SEC) | | 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 69.5 | 73.4 | 86.5 | 78.4 | 80.5 | 82.0 | 83.5 | 85.8 | 87.7 | 88.8 | 88.6 | 86.6 | 82.2 | |
| PNDB | | 74.1 | 81.1 | 95.5 | 87.2 | 89.6 | 90.3 | 92.4 | 94.0 | 95.2 | 95.2 | 93.0 | 89.5 | 82.5 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION C TEST POINT 6/15 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 26 HR. 22.0
F. 70 PERCENT REL. HUM. DAY - JENOTS

ANGLES FROM INLET IN DEGREES (AND RADIAN) (0.) (0.) (0.) (0.)
40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0. 0. PHL

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PHL |
|----------|--------|------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| 100 | 75.1 | 85.4 | 73.2 | 84.5 | 86.5 | 86.6 | 86.7 | 86.7 | 87.7 | 88.4 | 89.7 | 93.5 | 93.4 | 95.9 | 131.8 | | | | | |
| 125 | 75.6 | 79.6 | 91.4 | 83.9 | 85.2 | 86.6 | 86.7 | 88.7 | 88.6 | 86.6 | 86.4 | 94.1 | 96.1 | 96.9 | 131.8 | | | | | |
| 160 | 75.9 | 79.2 | 92.2 | 82.2 | 83.0 | 83.7 | 83.8 | 85.7 | 86.9 | 86.9 | 92.5 | 95.9 | 97.6 | 99.4 | 133.1 | | | | | |
| 200 | 78.8 | 79.5 | 90.8 | 82.8 | 85.0 | 85.0 | 85.9 | 88.3 | 91.0 | 94.4 | 98.6 | 102.8 | 104.3 | 136.7 | 138.5 | | | | | |
| 250 | 77.8 | 81.1 | 93.1 | 82.6 | 84.2 | 86.1 | 86.2 | 89.9 | 91.6 | 96.4 | 101.6 | 104.3 | 105.6 | 140.7 | 142.1 | | | | | |
| 315 | 79.4 | 83.9 | 92.7 | 85.0 | 87.3 | 88.4 | 89.1 | 91.7 | 93.9 | 98.2 | 103.5 | 107.1 | 107.7 | 142.9 | 142.9 | | | | | |
| 400 | 81.4 | 83.5 | 95.5 | 85.7 | 87.1 | 88.5 | 89.3 | 92.7 | 96.0 | 101.0 | 105.7 | 108.4 | 108.2 | 142.9 | 142.9 | | | | | |
| 500 | 82.3 | 83.3 | 95.0 | 86.1 | 87.2 | 89.3 | 90.9 | 93.3 | 96.8 | 102.1 | 106.8 | 109.5 | 108.0 | 142.9 | 142.9 | | | | | |
| 630 | 83.4 | 85.4 | 95.9 | 87.9 | 89.3 | 90.4 | 92.3 | 95.4 | 98.4 | 102.7 | 106.4 | 108.8 | 107.6 | 142.8 | 142.6 | | | | | |
| 800 | 85.1 | 86.9 | 97.4 | 88.9 | 90.5 | 91.9 | 93.3 | 96.2 | 99.7 | 103.7 | 105.9 | 107.6 | 107.4 | 142.0 | 142.6 | | | | | |
| 1000 | 86.7 | 88.2 | 99.5 | 90.3 | 91.4 | 92.5 | 94.4 | 97.3 | 100.0 | 103.6 | 104.8 | 105.7 | 106.0 | 141.8 | 142.0 | | | | | |
| 1250 | 86.5 | 88.1 | 100.1 | 90.1 | 91.4 | 93.6 | 94.7 | 97.6 | 100.8 | 103.9 | 104.1 | 105.0 | 104.3 | 142.0 | 142.0 | | | | | |
| 1600 | 86.6 | 88.9 | 99.7 | 91.2 | 92.8 | 94.2 | 95.3 | 97.7 | 101.9 | 104.5 | 103.7 | 104.4 | 104.4 | 141.8 | 142.0 | | | | | |
| 2000 | 87.7 | 88.7 | 101.0 | 91.2 | 92.8 | 94.2 | 96.3 | 98.5 | 102.2 | 104.0 | 103.2 | 104.2 | 103.2 | 141.8 | 141.8 | | | | | |
| 2500 | 87.8 | 89.3 | 100.6 | 91.4 | 93.2 | 94.6 | 96.2 | 98.9 | 102.8 | 103.4 | 102.6 | 103.8 | 103.1 | 142.6 | 142.6 | | | | | |
| 3150 | 88.0 | 89.8 | 101.8 | 92.1 | 93.9 | 95.0 | 96.4 | 99.8 | 103.3 | 104.4 | 102.6 | 104.7 | 103.8 | 142.3 | 142.3 | | | | | |
| 4000 | 87.5 | 89.1 | 100.8 | 91.6 | 93.4 | 95.1 | 96.4 | 100.4 | 103.1 | 103.7 | 102.1 | 104.3 | 103.1 | 143.1 | 143.1 | | | | | |
| 5000 | 87.4 | 89.2 | 101.0 | 92.5 | 93.8 | 95.4 | 96.8 | 100.5 | 102.5 | 103.6 | 102.5 | 104.4 | 103.9 | 143.1 | 143.1 | | | | | |
| 6300 | 87.0 | 89.8 | 101.3 | 92.6 | 94.9 | 96.8 | 98.7 | 100.8 | 102.8 | 103.4 | 102.9 | 104.8 | 103.3 | 143.9 | 143.9 | | | | | |
| 8000 | 86.5 | 90.1 | 101.7 | 92.9 | 94.5 | 96.1 | 98.5 | 100.9 | 102.9 | 104.3 | 102.2 | 105.3 | 104.6 | 143.2 | 143.2 | | | | | |
| 10000 | 85.7 | 92.8 | 104.1 | 94.1 | 95.2 | 95.5 | 98.2 | 100.6 | 102.6 | 103.0 | 102.5 | 105.3 | 104.8 | 143.2 | 143.2 | | | | | |
| 12500 | 83.8 | 92.9 | 104.7 | 93.5 | 94.5 | 95.4 | 97.8 | 98.9 | 100.2 | 101.2 | 100.6 | 103.4 | 102.9 | 141.6 | 141.6 | | | | | |
| 16000 | 82.7 | 91.0 | 103.9 | 95.1 | 95.4 | 94.2 | 97.6 | 97.7 | 100.4 | 100.0 | 99.3 | 101.8 | 101.7 | 140.5 | 140.5 | | | | | |
| 20000 | 80.2 | 88.0 | 101.2 | 92.6 | 95.3 | 93.4 | 96.1 | 94.4 | 97.7 | 96.5 | 96.4 | 98.8 | 99.6 | 137.7 | 137.7 | | | | | |
| 25000 | 77.3 | 85.7 | 97.6 | 89.6 | 92.1 | 91.3 | 91.6 | 92.3 | 95.6 | 93.0 | 94.3 | 94.4 | 96.4 | 137.6 | 137.6 | | | | | |
| 31500 | 75.2 | 83.3 | 96.5 | 88.2 | 90.5 | 89.2 | 91.4 | 90.2 | 92.1 | 90.7 | 90.6 | 94.0 | 93.9 | 137.6 | 137.6 | | | | | |
| 40000 | 69.9 | 78.5 | 92.7 | 84.0 | 85.3 | 85.3 | 86.5 | 85.4 | 88.2 | 87.7 | 86.9 | 89.8 | 90.1 | 137.6 | 137.6 | | | | | |
| 50000 | 62.5 | 72.3 | 87.0 | 77.8 | 77.9 | 78.2 | 79.0 | 79.5 | 81.6 | 81.6 | 82.0 | 82.7 | 83.0 | 137.6 | 137.6 | | | | | |
| 63000 | 55.5 | 65.3 | 81.2 | 70.6 | 70.6 | 71.3 | 70.9 | 72.9 | 75.5 | 75.5 | 75.9 | 75.1 | 76.6 | 137.6 | 137.6 | | | | | |
| 80000 | 49.2 | 60.6 | 77.3 | 64.7 | 64.3 | 66.6 | 66.6 | 66.8 | 70.1 | 72.6 | 71.7 | 70.8 | 72.5 | 156.2 | 156.2 | | | | | |

OVERALL MEASURED
OVERALL CALCULATED 98.7 102.3 114.0 104.8 106.3 107.2 109.0 111.3 114.1 115.9 116.8 116.9 118.6
PHL 111.5 113.7 125.3 116.0 117.7 119.0 120.6 123.7 126.6 128.2 128.0 130.1 129.6

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
MODEL-125cm²(19.4in²)
12.2m(40ft.) ARC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | | | | | | | | | | | | |
|-------|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| | | PROC. DATE - MONTH 8 DAY 26 HR. 22.1 | | | | | | | | | | | | | |
| | | ANGLE FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | |
| | | 0. 100. 110. 120. 130. 140. 150. 160. 170. 180. | | | | | | | | | | | | | |
| FREQ. | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| 50 | ROG. NO. 0. | 80.6 | 83.8 | 85.8 | 87.0 | 88.8 | 91.0 | 92.6 | 94.3 | 99.2 | 104.4 | 107.1 | 108.3 | 152.7 | |
| 63 | RADIAL 150. FT. | 82.2 | 86.7 | 87.5 | 88.5 | 89.9 | 91.2 | 91.8 | 94.5 | 96.7 | 101.0 | 106.2 | 109.9 | 154.9 | |
| 80 | (46. M) | 84.2 | 86.2 | 88.2 | 89.8 | 89.9 | 92.1 | 95.5 | 98.7 | 103.8 | 108.5 | 111.2 | 111.0 | 156.4 | |
| 100 | VEHICLE CELL 41 | 85.0 | 86.0 | 87.8 | 88.8 | 89.9 | 92.0 | 93.1 | 95.0 | 98.2 | 101.2 | 105.5 | 109.2 | 157.0 | |
| 125 | CONFIG NCS7 | 86.1 | 87.1 | 88.7 | 90.7 | 92.0 | 93.1 | 94.7 | 96.1 | 99.0 | 102.4 | 106.5 | 108.7 | 156.8 | |
| 200 | LOC C41 ANECH CH | 89.5 | 91.0 | 102.3 | 93.0 | 94.1 | 95.2 | 97.1 | 100.0 | 102.6 | 106.3 | 107.4 | 110.2 | 156.2 | |
| 250 | DATE 08-16-76 | 89.3 | 90.8 | 102.8 | 92.9 | 94.2 | 96.3 | 97.5 | 100.4 | 103.6 | 106.7 | 108.5 | 108.7 | 156.0 | |
| 315 | RUN CONF6VELDEPN | 89.4 | 91.7 | 102.5 | 94.0 | 95.6 | 96.9 | 98.1 | 100.5 | 104.7 | 107.3 | 106.5 | 107.2 | 156.2 | |
| 400 | TAPE X61160 | 90.5 | 91.5 | 103.8 | 94.0 | 95.6 | 97.0 | 99.1 | 101.3 | 105.0 | 106.8 | 106.0 | 106.0 | 156.1 | |
| 500 | BAR 29.4 HG | 90.6 | 92.6 | 104.6 | 94.9 | 96.8 | 97.9 | 99.3 | 102.7 | 106.4 | 107.2 | 105.4 | 107.6 | 156.9 | |
| 630 | (99212. N/M2) | 90.4 | 91.9 | 103.7 | 94.5 | 96.3 | 97.9 | 99.3 | 103.2 | 106.0 | 106.6 | 105.0 | 107.2 | 156.5 | |
| 800 | TAMB 57. DEG F | 90.3 | 92.1 | 103.9 | 95.4 | 96.7 | 98.3 | 99.7 | 103.4 | 105.4 | 106.5 | 105.4 | 107.3 | 156.7 | |
| 1250 | (287. DEG K) | 90.0 | 92.8 | 104.3 | 95.6 | 97.9 | 99.8 | 101.7 | 103.8 | 105.8 | 106.4 | 105.9 | 107.8 | 157.3 | |
| 1600 | 55. DEG F | 89.6 | 93.2 | 104.8 | 96.1 | 97.6 | 99.2 | 101.6 | 104.1 | 106.1 | 107.4 | 105.4 | 108.5 | 157.6 | |
| 2000 | (286. DEG K) | 89.1 | 92.6 | 107.5 | 97.5 | 98.6 | 98.9 | 101.6 | 104.0 | 106.0 | 106.4 | 105.8 | 108.7 | 158.1 | |
| 2500 | HACTIU-60 GM/M3 | 87.6 | 96.6 | 108.5 | 97.2 | 98.2 | 99.1 | 101.5 | 102.6 | 104.0 | 104.9 | 104.3 | 107.1 | 157.5 | |
| 3150 | (.01060 KG/M3) | 87.0 | 95.3 | 108.2 | 97.4 | 99.7 | 98.5 | 101.9 | 104.7 | 104.2 | 103.6 | 106.1 | 106.6 | 157.5 | |
| 4000 | FREQ. SHIFT | 85.2 | 93.0 | 106.2 | 97.5 | 100.3 | 98.4 | 101.0 | 99.4 | 102.7 | 101.5 | 101.4 | 103.8 | 156.0 | |
| 5000 | JET | 83.6 | 91.9 | 103.9 | 95.9 | 98.4 | 97.6 | 97.9 | 98.5 | 101.9 | 99.3 | 100.6 | 102.7 | 154.4 | |
| 6300 | DIAMETER RATIO | 83.0 | 91.2 | 104.4 | 96.1 | 98.3 | 97.0 | 99.2 | 98.1 | 99.9 | 98.6 | 98.5 | 101.8 | 154.8 | |
| 8000 | DF/DM 5.15 | 80.1 | 84.7 | 102.9 | 94.2 | 96.0 | 95.5 | 96.7 | 95.6 | 98.4 | 97.9 | 97.1 | 100.0 | 153.9 | |
| 10000 | | 75.8 | 83.5 | 100.3 | 91.0 | 91.1 | 91.4 | 92.2 | 92.7 | 94.8 | 94.9 | 93.2 | 95.9 | 151.9 | |
| 12500 | | 73.2 | 83.0 | 99.0 | 88.3 | 88.3 | 89.0 | 88.6 | 90.6 | 93.2 | 93.6 | 93.4 | 92.8 | 151.8 | |
| 16000 | | 73.2 | 84.6 | 101.4 | 88.7 | 88.4 | 89.7 | 90.7 | 90.9 | 94.1 | 96.7 | 95.7 | 94.8 | 156.7 | |
| | OVERALL CALCULATED | 101.7 | 105.8 | 117.3 | 108.6 | 110.1 | 110.7 | 112.6 | 114.6 | 117.3 | 118.9 | 119.6 | 121.8 | 170.3 | |
| | PNDP | 112.8 | 119.0 | 131.3 | 122.3 | 123.7 | 123.3 | 125.7 | 126.7 | 129.4 | 129.9 | 129.8 | 132.0 | 131.8 | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6116 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL - 33m²(513in²) SIZE

| FREQ. | FULL SIZE SOUND PRESSURE | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY) | | |
|--------------------|--------------------------|------|------|--|------|------|
| | 40. | 50. | 60. | 90. | 100. | 110. |
| 50 | 52.4 | 57.2 | 70.3 | 60.6 | 62.5 | 80. |
| 63 | 53.9 | 69.0 | 69.9 | 62.9 | 65.7 | 80. |
| 80 | 55.9 | 59.5 | 72.6 | 63.6 | 65.4 | 80. |
| 100 | 56.6 | 59.2 | 72.1 | 63.9 | 65.4 | 80. |
| 125 | 57.6 | 61.2 | 72.9 | 65.6 | 67.4 | 80. |
| 160 | 59.1 | 62.6 | 74.2 | 66.5 | 68.5 | 80. |
| 200 | 60.5 | 63.7 | 76.2 | 67.7 | 69.3 | 80. |
| 250 | 60.1 | 63.4 | 76.0 | 67.4 | 69.2 | 80. |
| 315 | 59.9 | 63.9 | 75.9 | 68.3 | 70.3 | 80. |
| 400 | 60.5 | 63.4 | 76.9 | 68.0 | 70.1 | 80. |
| 500 | 60.1 | 63.6 | 76.1 | 67.8 | 70.1 | 80. |
| 630 | 59.6 | 63.5 | 76.9 | 68.1 | 70.4 | 80. |
| 800 | 58.3 | 62.1 | 75.3 | 67.1 | 69.4 | 80. |
| 1000 | 57.1 | 61.3 | 74.7 | 67.2 | 69.2 | 80. |
| 1250 | 55.4 | 60.9 | 74.1 | 66.5 | 69.5 | 80. |
| 1600 | 53.2 | 59.7 | 73.2 | 65.7 | 67.9 | 80. |
| 2000 | 50.3 | 60.7 | 74.2 | 65.6 | 67.4 | 80. |
| 2500 | 45.4 | 58.3 | 72.7 | 63.2 | 64.9 | 80. |
| 3150 | 39.4 | 52.5 | 68.5 | 61.6 | 62.9 | 80. |
| 4000 | 29.6 | 43.5 | 60.6 | 54.3 | 58.4 | 80. |
| 5000 | 23.3 | 38.6 | 54.8 | 49.5 | 53.5 | 80. |
| 6300 | 9.0 | 26.4 | 45.5 | 40.5 | 44.7 | 80. |
| 8000 | | 6.4 | 28.4 | 24.4 | 28.8 | 80. |
| 10000 | | 4.3 | 1.0 | 5.2 | 6.7 | 80. |
| 12500 | | | | | | 80. |
| 16000 | | | | | | 80. |
| OVERALL CALCULATED | 70.3 | 74.4 | 87.2 | 79.0 | 81.1 | 82.6 |
| PND8 | 75.2 | 82.1 | 96.1 | 87.5 | 89.7 | 90.7 |

VO EGA
 SIDELINE 2400. FT.
 (731.52 M)
 NFA (1. RPM
 (0. RAD/SEC)
 NFK (1. RPM
 (0. RAD/SEC)
 NFD (7500. RPM
 (785. RAD/SEC)
 AIRFLOW RATIO
 WF/WM 5.15
 VEHICLE CELL41
 CONFIG NC57
 LOC C41 ANECH CH
 DATE 06-16-76
 RUN CONF6V ELOEPN
 TAPE X61160
 FAN TIP SPEED
 FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6
 TEST POINT 6/16
 ACOUSTIC RANGE 731.5m(2400ft.)
 SIDELINE FULL-.33m²(513in²)
 SIZE

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. PWL
 FREQ. (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)

| NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PWL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
| RDG. NO. 0. | 78.4 | 87.2 | 94.9 | 86.5 | 88.0 | 88.2 | 89.5 | 89.0 | 89.9 | 91.2 | 94.7 | 95.1 | 97.9 | | | | | | 133.4 |
| RADIAL 4C. FT. | 77.1 | 81.1 | 92.6 | 85.2 | 87.0 | 88.6 | 88.0 | 89.0 | 88.1 | 87.2 | 95.9 | 98.3 | 99.4 | | | | | | 133.7 |
| (12. M) | 77.6 | 80.4 | 93.7 | 83.7 | 84.0 | 84.7 | 85.0 | 87.0 | 88.4 | 93.7 | 97.2 | 99.1 | 101.9 | | | | | | 134.6 |
| VEHICLE CELL41 | 80.5 | 80.5 | 92.5 | 84.3 | 85.2 | 86.0 | 87.2 | 89.8 | 92.0 | 95.1 | 99.6 | 104.5 | 106.3 | | | | | | 138.3 |
| CONFIS NC57 | 78.8 | 82.6 | 94.3 | 83.9 | 86.0 | 87.3 | 90.0 | 91.6 | 93.3 | 97.9 | 104.6 | 106.8 | 107.6 | | | | | | 140.8 |
| LJC C41 ANECH CH | 80.9 | 85.4 | 93.9 | 86.7 | 88.8 | 89.7 | 90.6 | 92.7 | 95.4 | 100.2 | 105.7 | 109.6 | 109.7 | | | | | | 142.8 |
| DATE 06-16-76 | 83.2 | 85.0 | 96.7 | 86.7 | 88.3 | 89.7 | 90.8 | 93.7 | 97.0 | 102.5 | 108.2 | 110.7 | 110.7 | | | | | | 144.3 |
| RUN CONFVELDEPN | 84.0 | 84.8 | 96.3 | 87.1 | 88.7 | 91.0 | 91.7 | 94.3 | 97.8 | 104.7 | 109.6 | 112.2 | 110.8 | | | | | | 145.4 |
| TAPE X61170 | 84.9 | 86.6 | 97.6 | 88.9 | 90.3 | 91.9 | 93.5 | 96.2 | 99.1 | 104.7 | 109.9 | 112.8 | 111.1 | | | | | | 146.0 |
| BAR 29.3 HG | 86.9 | 88.4 | 98.7 | 90.4 | 91.5 | 92.9 | 95.0 | 97.4 | 100.9 | 106.0 | 110.2 | 112.6 | 112.2 | | | | | | 146.5 |
| (98975. N/M2) | 90.2 | 90.7 | 102.2 | 92.3 | 92.9 | 94.2 | 95.4 | 98.3 | 101.2 | 105.8 | 108.8 | 111.7 | 112.2 | | | | | | 146.1 |
| TAMB 57. DEG F | 88.8 | 90.8 | 102.1 | 91.9 | 93.4 | 94.8 | 96.2 | 99.4 | 102.3 | 105.9 | 108.1 | 112.0 | 111.3 | | | | | | 146.0 |
| (287. DEG K) | 89.1 | 91.2 | 101.2 | 92.7 | 94.0 | 95.7 | 96.5 | 99.0 | 102.7 | 106.5 | 107.2 | 110.6 | 110.9 | | | | | | 145.5 |
| TWET 55. DEG F | 89.9 | 91.0 | 102.7 | 92.7 | 94.6 | 95.2 | 97.3 | 100.2 | 102.7 | 105.5 | 106.5 | 109.9 | 109.5 | | | | | | 145.0 |
| (286. DEG K) | 90.3 | 91.8 | 103.1 | 93.1 | 94.9 | 96.1 | 96.9 | 100.4 | 103.8 | 104.7 | 106.1 | 108.5 | 108.6 | | | | | | 144.6 |
| HACTIC-60 GM/M3 | 91.5 | 92.3 | 103.5 | 94.3 | 95.7 | 96.0 | 97.9 | 101.1 | 104.3 | 105.1 | 106.1 | 108.7 | 107.8 | | | | | | 144.8 |
| (.01060 KG/M3) | 90.5 | 92.1 | 102.8 | 93.6 | 94.7 | 96.1 | 97.4 | 101.4 | 103.3 | 104.9 | 105.1 | 107.3 | 105.3 | | | | | | 144.0 |
| FRFQ. SHIFT | 90.4 | 91.9 | 103.0 | 94.5 | 94.8 | 96.4 | 98.1 | 101.7 | 103.2 | 104.8 | 105.3 | 106.7 | 105.4 | | | | | | 144.1 |
| JET | 89.7 | 92.8 | 103.6 | 93.6 | 95.7 | 97.3 | 99.2 | 100.8 | 103.3 | 104.2 | 104.9 | 107.0 | 103.8 | | | | | | 144.3 |
| DIAMETER RATIO | 88.8 | 92.1 | 103.7 | 94.2 | 95.7 | 96.8 | 99.5 | 101.7 | 102.9 | 105.0 | 104.2 | 106.8 | 104.8 | | | | | | 144.5 |
| DF/DM 1 | 87.2 | 93.3 | 104.6 | 95.4 | 96.7 | 96.8 | 98.7 | 101.4 | 102.9 | 103.3 | 104.0 | 106.8 | 104.8 | | | | | | 144.7 |
| | 86.1 | 92.1 | 104.5 | 95.2 | 95.8 | 96.1 | 97.8 | 99.1 | 101.5 | 101.9 | 102.3 | 105.1 | 103.6 | | | | | | 144.0 |
| | 84.7 | 91.0 | 103.4 | 95.1 | 96.6 | 96.0 | 97.6 | 97.9 | 100.4 | 100.5 | 101.1 | 104.1 | 102.2 | | | | | | 143.8 |
| | 82.2 | 88.0 | 101.2 | 92.6 | 96.3 | 95.1 | 96.6 | 95.1 | 97.5 | 97.0 | 98.1 | 100.5 | 100.7 | | | | | | 142.5 |
| | 79.8 | 85.7 | 98.1 | 90.1 | 93.1 | 92.3 | 92.8 | 92.8 | 95.6 | 93.8 | 96.6 | 95.9 | 97.2 | | | | | | 141.0 |
| | 77.7 | 83.6 | 96.8 | 89.2 | 91.2 | 90.4 | 92.1 | 90.7 | 92.3 | 91.4 | 92.9 | 96.2 | 94.9 | | | | | | 141.4 |
| | 73.6 | 78.5 | 93.5 | 85.2 | 86.8 | 86.3 | 87.8 | 86.9 | 88.2 | 88.2 | 89.4 | 91.8 | 91.6 | | | | | | 140.8 |
| | 67.5 | 72.5 | 87.5 | 79.3 | 79.1 | 79.5 | 80.5 | 79.5 | 82.1 | 82.1 | 84.5 | 85.2 | 84.7 | | | | | | 138.7 |
| | 61.2 | 65.5 | 81.2 | 71.9 | 71.6 | 72.5 | 72.4 | 73.7 | 75.8 | 76.9 | 78.7 | 78.3 | 78.1 | | | | | | 138.6 |
| 80000 | 57.4 | 60.8 | 77.3 | 65.4 | 65.6 | 66.7 | 67.1 | 67.3 | 70.6 | 73.1 | 73.2 | 73.5 | 74.7 | | | | | | 143.2 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 101.2 | 103.9 | 115.3 | 106.1 | 107.6 | 108.3 | 109.9 | 112.3 | 114.8 | 117.3 | 119.8 | 122.6 | 122.1 | | | | | | 158.3 |
| PND8 | 114.3 | 116.0 | 127.1 | 117.8 | 119.2 | 120.1 | 121.7 | 124.8 | 127.4 | 129.4 | 131.1 | 133.8 | 133.1 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **6** TEST POINT **6/117** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-125cm²(19.4in²)** SIZE

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY - JENOTS) | | | | | | | | | | PWL | | |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. |
| ROG. :0. 0. | FRER. (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) (2.96) | 81.6 | 85.3 | 89.1 | 92.7 | 96.4 | 100.1 | 103.7 | 107.4 | 111.0 | 114.7 | 118.4 | 122.1 |
| RADIAL 150. FT. | SC | 83.7 | 87.4 | 91.1 | 94.8 | 98.5 | 102.2 | 105.9 | 109.6 | 113.3 | 117.0 | 120.7 | 124.4 |
| (46. M) | 30 | 85.9 | 89.6 | 93.3 | 97.0 | 100.7 | 104.4 | 108.1 | 111.8 | 115.5 | 119.2 | 122.9 | 126.6 |
| VEHICLE CELL41 | 100 | 86.8 | 90.5 | 94.2 | 97.9 | 101.6 | 105.3 | 109.0 | 112.7 | 116.4 | 120.1 | 123.8 | 127.5 |
| CONFIG NC57 | 125 | 87.6 | 91.3 | 95.0 | 98.7 | 102.4 | 106.1 | 109.8 | 113.5 | 117.2 | 120.9 | 124.6 | 128.3 |
| LOC C41 ANECH CH | 200 | 93.0 | 96.7 | 100.4 | 104.1 | 107.8 | 111.5 | 115.2 | 118.9 | 122.6 | 126.3 | 130.0 | 133.7 |
| DATE 06-16-76 | 250 | 91.0 | 94.7 | 98.4 | 102.1 | 105.8 | 109.5 | 113.2 | 116.9 | 120.6 | 124.3 | 128.0 | 131.7 |
| RUN CONF6VEL0EPH | 315 | 91.9 | 95.6 | 99.3 | 103.0 | 106.7 | 110.4 | 114.1 | 117.8 | 121.5 | 125.2 | 128.9 | 132.6 |
| TAPE X61170 | 400 | 92.7 | 96.4 | 100.1 | 103.8 | 107.5 | 111.2 | 114.9 | 118.6 | 122.3 | 126.0 | 129.7 | 133.4 |
| BAR 29.3 HG | 500 | 93.1 | 96.8 | 100.5 | 104.2 | 107.9 | 111.6 | 115.3 | 119.0 | 122.7 | 126.4 | 130.1 | 133.8 |
| (98975. N/M2) | 630 | 94.3 | 98.0 | 101.7 | 105.4 | 109.1 | 112.8 | 116.5 | 120.2 | 123.9 | 127.6 | 131.3 | 135.0 |
| TARB 57. DEG F | 800 | 93.4 | 97.1 | 100.8 | 104.5 | 108.2 | 111.9 | 115.6 | 119.3 | 123.0 | 126.7 | 130.4 | 134.1 |
| (287. DEG K) | 1000 | 93.3 | 97.0 | 100.7 | 104.4 | 108.1 | 111.8 | 115.5 | 119.2 | 122.9 | 126.6 | 130.3 | 134.0 |
| TWET 55. DEG F | 1250 | 92.7 | 96.4 | 100.1 | 103.8 | 107.5 | 111.2 | 114.9 | 118.6 | 122.3 | 126.0 | 129.7 | 133.4 |
| (286. DEG K) | 1600 | 91.9 | 95.6 | 99.3 | 103.0 | 106.7 | 110.4 | 114.1 | 117.8 | 121.5 | 125.2 | 128.9 | 132.6 |
| HACT10.60 GM/M3 | 2000 | 90.6 | 94.3 | 98.0 | 101.7 | 105.4 | 109.1 | 112.8 | 116.5 | 120.2 | 123.9 | 127.6 | 131.3 |
| (.01060 KG/M3) | 2500 | 89.6 | 93.3 | 97.0 | 100.7 | 104.4 | 108.1 | 111.8 | 115.5 | 119.2 | 122.9 | 126.6 | 130.3 |
| FREQ. SHIFT | 3150 | 89.0 | 92.7 | 96.4 | 100.1 | 103.8 | 107.5 | 111.2 | 114.9 | 118.6 | 122.3 | 126.0 | 129.7 |
| JET | 4000 | 87.2 | 90.9 | 94.6 | 98.3 | 102.0 | 105.7 | 109.4 | 113.1 | 116.8 | 120.5 | 124.2 | 127.9 |
| DIAMETER RATIO | 5000 | 86.1 | 89.8 | 93.5 | 97.2 | 100.9 | 104.6 | 108.3 | 112.0 | 115.7 | 119.4 | 123.1 | 126.8 |
| DF/D4 5.15 | 6300 | 85.5 | 89.2 | 92.9 | 96.6 | 100.3 | 104.0 | 107.7 | 111.4 | 115.1 | 118.8 | 122.5 | 126.2 |
| | 8000 | 83.8 | 87.5 | 91.2 | 94.9 | 98.6 | 102.3 | 106.0 | 109.7 | 113.4 | 117.1 | 120.8 | 124.5 |
| | 10000 | 80.8 | 84.5 | 88.2 | 91.9 | 95.6 | 99.3 | 103.0 | 106.7 | 110.4 | 114.1 | 117.8 | 121.5 |
| | 12500 | 78.9 | 82.6 | 86.3 | 90.0 | 93.7 | 97.4 | 101.1 | 104.8 | 108.5 | 112.2 | 115.9 | 119.6 |
| | 16000 | 81.5 | 85.2 | 88.9 | 92.6 | 96.3 | 100.0 | 103.7 | 107.4 | 111.1 | 114.8 | 118.5 | 122.2 |
| OVERALL CALCULATED | 104.3 | 107.1 | 118.9 | 123.1 | 127.3 | 131.5 | 135.7 | 139.9 | 144.1 | 148.3 | 152.5 | 156.7 | 160.9 |
| | PNDR | 115.1 | 119.7 | 124.8 | 129.9 | 135.0 | 140.1 | 145.2 | 150.3 | 155.4 | 160.5 | 165.6 | 170.7 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6117 ACUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in²)

| NO EGA | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | |
|----------------------------------|--------------------------|------|------|------|------|------|------|------|------|------|--|------|------|------|----|----|----|--|--|--|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 123. | 130. | 140. | 150. | 160. | U. | C. | G. | U. | | | |
| SIDELINE 2400. FT.
(731.52 M) | 53.4 | 58.7 | 71.6 | 61.8 | 64.3 | 65.8 | 68.3 | 69.6 | 70.6 | 74.0 | 79.2 | 79.1 | 76.7 | 78.4 | | | | | | |
| NFA (0. RAD/SEC) | 59.1 | 62.5 | 74.6 | 66.6 | 68.4 | 69.4 | 69.9 | 72.1 | 74.8 | 80.0 | 83.9 | 84.2 | 79.2 | 79.2 | | | | | | |
| NFK (1. RAD/SEC) | 60.9 | 64.1 | 75.5 | 65.0 | 69.6 | 71.1 | 73.1 | 75.0 | 77.7 | 81.7 | 84.2 | 84.7 | 79.3 | 79.6 | | | | | | |
| NFD (7500. RPM) | 62.5 | 66.1 | 78.6 | 69.7 | 70.8 | 72.3 | 73.3 | 75.7 | 77.9 | 81.3 | 82.6 | 83.0 | 79.6 | 79.6 | | | | | | |
| AIRFLOW RATIO
WF/MM 5.15 | 62.4 | 66.2 | 77.4 | 69.8 | 71.8 | 72.7 | 73.3 | 74.1 | 76.0 | 78.9 | 81.5 | 80.4 | 81.2 | 77.2 | | | | | | |
| VEHICLE CELL41 | 62.6 | 66.1 | 78.6 | 69.5 | 71.9 | 72.6 | 74.6 | 77.0 | 78.7 | 80.2 | 79.3 | 79.9 | 74.9 | 74.9 | | | | | | |
| CONFIG NC57 | 63.1 | 66.0 | 78.7 | 70.3 | 72.2 | 73.2 | 73.9 | 76.8 | 79.4 | 78.9 | 78.4 | 77.9 | 73.0 | 73.0 | | | | | | |
| LOC C41 ANECH CH | 61.5 | 65.1 | 77.3 | 69.1 | 70.7 | 72.2 | 73.4 | 76.4 | 77.8 | 77.9 | 75.9 | 74.6 | 66.8 | 66.8 | | | | | | |
| DATE 06-16-76 | 58.2 | 63.9 | 76.4 | 67.5 | 70.2 | 72.0 | 73.4 | 76.5 | 76.9 | 76.9 | 75.0 | 72.6 | 64.9 | 64.9 | | | | | | |
| RUN CONF6VELDEPN | 55.4 | 61.7 | 75.2 | 66.9 | 69.2 | 70.5 | 72.9 | 74.4 | 74.5 | 74.7 | 70.9 | 68.8 | 58.2 | 58.2 | | | | | | |
| TAPE X61170 | 51.8 | 61.2 | 74.7 | 66.8 | 68.9 | 69.3 | 70.9 | 72.8 | 73.0 | 71.2 | 68.5 | 66.0 | 53.9 | 53.9 | | | | | | |
| FAN TIP SPEED
FT/SEC | 47.7 | 57.6 | 72.5 | 64.8 | 66.2 | 66.8 | 68.2 | 68.7 | 69.5 | 67.4 | 64.4 | 60.3 | 46.7 | 46.7 | | | | | | |
| OVERALL CALCULATED | 72.8 | 76.5 | 89.0 | 80.6 | 82.5 | 83.8 | 85.2 | 87.5 | 89.4 | 91.4 | 92.8 | 93.2 | 88.8 | 88.8 | | | | | | |
| PNDB | 77.8 | 83.4 | 97.0 | 88.9 | 91.1 | 91.9 | 93.4 | 95.1 | 96.2 | 96.6 | 96.1 | 96.0 | 90.3 | 90.3 | | | | | | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6 117 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 30 HR. 15.6
 MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | ANGLES FROM INLET IN DEGREES (AND RADIANIS) | | | | | | | | | | PWL | | |
|--|--------|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. |
| 100 | 76.6 | 85.9 | 83.9 | 85.5 | 86.3 | 86.7 | 87.0 | 87.7 | 88.7 | 90.7 | 94.4 | 93.9 | 96.4 | 131.5 |
| 125 | 76.3 | 80.4 | 81.9 | 84.4 | 85.5 | 86.6 | 87.2 | 88.4 | 89.9 | 87.9 | 94.9 | 96.8 | 96.9 | 131.8 |
| 160 | 77.1 | 79.7 | 82.4 | 83.2 | 83.8 | 84.2 | 84.5 | 85.7 | 87.4 | 93.0 | 96.7 | 98.4 | 99.9 | 133.3 |
| 200 | 80.0 | 79.5 | 81.8 | 83.8 | 84.7 | 85.3 | 85.9 | 88.6 | 91.8 | 95.9 | 99.8 | 103.8 | 104.5 | 137.4 |
| 250 | 79.6 | 81.8 | 83.8 | 83.9 | 85.2 | 86.8 | 89.5 | 90.9 | 93.3 | 98.4 | 103.9 | 105.8 | 106.1 | 139.8 |
| 315 | 80.7 | 84.7 | 82.9 | 86.2 | 88.6 | 89.4 | 90.1 | 92.0 | 95.7 | 101.8 | 106.5 | 108.9 | 108.7 | 142.6 |
| 400 | 82.9 | 84.7 | 86.5 | 88.1 | 89.7 | 91.1 | 93.8 | 98.2 | 105.0 | 110.4 | 111.4 | 109.7 | 145.1 | |
| 500 | 83.5 | 85.3 | 86.3 | 87.3 | 88.9 | 91.0 | 92.4 | 94.8 | 100.3 | 108.1 | 112.3 | 112.8 | 110.3 | 146.9 |
| 650 | 85.1 | 87.1 | 87.6 | 89.2 | 90.8 | 92.1 | 93.8 | 96.4 | 103.1 | 110.5 | 114.2 | 113.8 | 110.9 | 148.6 |
| 800 | 87.6 | 88.7 | 89.7 | 91.9 | 93.0 | 94.2 | 95.8 | 98.7 | 105.4 | 113.5 | 115.9 | 114.6 | 111.7 | 150.3 |
| 1000 | 92.7 | 94.2 | 95.5 | 96.0 | 95.9 | 95.7 | 97.4 | 100.3 | 106.2 | 114.3 | 116.8 | 114.9 | 112.5 | 151.1 |
| 1250 | 91.8 | 94.8 | 96.6 | 96.6 | 97.5 | 98.1 | 99.0 | 102.6 | 107.6 | 115.9 | 117.6 | 116.8 | 112.8 | 152.4 |
| 1600 | 90.9 | 93.2 | 93.7 | 95.2 | 96.1 | 97.9 | 99.3 | 101.7 | 108.2 | 116.3 | 118.2 | 116.6 | 112.7 | 152.7 |
| 2000 | 92.2 | 93.7 | 95.7 | 96.3 | 96.8 | 97.5 | 99.8 | 103.0 | 108.5 | 116.1 | 117.8 | 115.4 | 111.0 | 152.2 |
| 2500 | 91.8 | 93.1 | 95.1 | 96.4 | 97.7 | 98.1 | 100.5 | 103.6 | 108.8 | 114.4 | 116.6 | 113.0 | 108.3 | 151.0 |
| 3150 | 93.2 | 95.0 | 96.8 | 97.1 | 97.7 | 98.5 | 100.7 | 104.3 | 109.1 | 114.7 | 115.8 | 111.3 | 107.0 | 150.6 |
| 4000 | 93.0 | 95.1 | 96.3 | 97.1 | 98.2 | 98.3 | 100.7 | 104.6 | 108.1 | 113.4 | 113.9 | 109.5 | 104.6 | 149.3 |
| 5000 | 92.1 | 95.2 | 97.2 | 98.5 | 98.3 | 98.9 | 100.6 | 104.3 | 108.0 | 112.1 | 113.0 | 108.4 | 104.7 | 148.6 |
| 6300 | 92.0 | 96.5 | 97.3 | 98.6 | 99.9 | 99.8 | 101.9 | 103.8 | 107.6 | 111.2 | 111.4 | 107.8 | 104.5 | 148.0 |
| 8000 | 92.0 | 97.6 | 98.9 | 100.1 | 100.2 | 100.1 | 102.2 | 104.4 | 107.4 | 110.5 | 110.2 | 106.8 | 105.1 | 147.9 |
| 10000 | 91.1 | 97.0 | 98.6 | 100.1 | 101.4 | 99.8 | 101.4 | 103.6 | 106.4 | 109.3 | 108.4 | 106.8 | 104.5 | 147.2 |
| 12500 | 89.5 | 95.1 | 97.2 | 99.6 | 100.2 | 99.8 | 101.4 | 101.3 | 103.7 | 106.9 | 106.8 | 105.6 | 103.3 | 146.1 |
| 16000 | 88.4 | 93.4 | 96.1 | 98.8 | 99.8 | 99.1 | 101.3 | 100.3 | 103.1 | 105.3 | 105.2 | 104.0 | 102.1 | 145.7 |
| 20000 | 85.8 | 90.6 | 93.5 | 95.9 | 98.9 | 97.5 | 99.9 | 98.5 | 101.0 | 103.1 | 104.5 | 102.4 | 100.3 | 145.1 |
| 25000 | 82.4 | 88.0 | 89.4 | 92.2 | 94.6 | 94.6 | 95.4 | 95.8 | 98.4 | 99.8 | 102.4 | 97.9 | 97.2 | 143.4 |
| 31500 | 80.5 | 85.1 | 88.0 | 90.9 | 92.7 | 92.4 | 94.3 | 93.2 | 95.0 | 98.6 | 99.9 | 97.5 | 95.7 | 143.7 |
| 40000 | 74.6 | 80.5 | 83.9 | 86.9 | 87.9 | 88.0 | 89.7 | 88.6 | 91.6 | 96.8 | 97.6 | 93.7 | 92.2 | 143.7 |
| 50000 | 68.2 | 73.9 | 78.4 | 80.7 | 80.3 | 82.1 | 82.6 | 83.1 | 85.7 | 93.4 | 94.3 | 88.8 | 87.6 | 143.7 |
| 63000 | 62.2 | 66.9 | 73.1 | 74.3 | 72.8 | 76.4 | 75.8 | 77.5 | 79.9 | 90.2 | 90.8 | 83.5 | 83.0 | 146.0 |
| 80000 | 57.5 | 62.1 | 68.7 | 68.1 | 66.8 | 72.7 | 73.1 | 73.5 | 77.0 | 89.8 | 88.7 | 81.2 | 81.4 | 153.7 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED 103.4 106.8 108.4 109.8 110.7 110.7 112.6 114.8 119.2 125.3 127.0 125.3 122.1 | | | | | | | | | | | | | | |
| PNDB 116.1 118.6 120.1 121.0 121.8 122.2 124.1 127.3 131.8 137.5 139.1 136.6 133.0 | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 12.2m(40ft.) ARC MODEL-5L.7cm²(8.0in²)

6 6150

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEVOTS)

| NO | EQA | C | ANGLE FROM INLET IN DEGREES (AND RADIANS) | | | | | PWL | | | | |
|--------------------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 60 | 70 | 80 | 90 | 100 | | | | | |
| 53 | 89.5 | 91.3 | 93.1 | 94.7 | 96.3 | 97.7 | 100.3 | 104.8 | 111.6 | 116.6 | 118.3 | 116.3 |
| 63 | 91.7 | 93.7 | 94.2 | 95.8 | 97.4 | 98.7 | 100.4 | 103.0 | 107.1 | 120.8 | 120.4 | 117.5 |
| 102 | 94.2 | 95.3 | 96.3 | 98.6 | 99.6 | 100.8 | 102.4 | 105.3 | 112.0 | 122.5 | 121.2 | 118.3 |
| 125 | 99.3 | 100.8 | 102.1 | 102.6 | 103.5 | 104.0 | 106.9 | 112.9 | 120.9 | 123.4 | 121.5 | 119.1 |
| 167 | 98.4 | 101.4 | 103.2 | 103.2 | 104.1 | 104.7 | 105.6 | 109.2 | 114.2 | 122.5 | 124.2 | 119.4 |
| 200 | 97.5 | 99.8 | 100.3 | 101.8 | 102.7 | 104.6 | 105.9 | 108.3 | 114.8 | 122.9 | 124.8 | 119.3 |
| 252 | 98.8 | 100.4 | 102.4 | 102.9 | 103.5 | 104.1 | 106.5 | 109.7 | 115.1 | 122.7 | 124.4 | 117.5 |
| 315 | 98.5 | 99.7 | 101.8 | 103.0 | 104.4 | 104.7 | 107.1 | 110.3 | 115.5 | 121.1 | 123.3 | 119.7 |
| 400 | 100.0 | 101.8 | 103.5 | 103.8 | 104.4 | 105.3 | 107.4 | 111.1 | 115.8 | 121.6 | 122.6 | 118.3 |
| 500 | 99.8 | 101.8 | 103.1 | 103.9 | 105.0 | 105.1 | 107.5 | 111.1 | 114.9 | 120.2 | 120.7 | 116.3 |
| 630 | 98.9 | 102.0 | 104.0 | 105.3 | 105.1 | 105.8 | 107.4 | 111.1 | 114.8 | 118.9 | 119.8 | 115.2 |
| 800 | 98.9 | 103.4 | 104.2 | 105.5 | 106.8 | 106.7 | 108.8 | 110.8 | 114.5 | 118.1 | 118.3 | 114.7 |
| 1000 | 99.1 | 104.7 | 106.0 | 107.3 | 107.3 | 107.2 | 109.3 | 111.5 | 114.5 | 117.6 | 117.3 | 113.9 |
| 1250 | 98.5 | 104.4 | 106.0 | 107.5 | 108.8 | 107.1 | 108.8 | 111.0 | 113.7 | 116.6 | 115.8 | 114.2 |
| 1600 | 97.3 | 102.8 | 105.0 | 107.4 | 108.0 | 107.6 | 109.2 | 109.1 | 111.5 | 114.7 | 114.5 | 113.4 |
| 2000 | 96.8 | 101.9 | 104.5 | 107.2 | 108.3 | 107.6 | 108.8 | 108.8 | 111.5 | 113.8 | 113.7 | 112.4 |
| 2500 | 95.2 | 100.0 | 102.9 | 105.3 | 108.3 | 106.9 | 109.3 | 107.8 | 113.4 | 112.4 | 113.9 | 111.7 |
| 3150 | 93.0 | 98.6 | 100.0 | 102.8 | 105.3 | 105.2 | 106.0 | 106.4 | 109.0 | 110.4 | 113.0 | 108.5 |
| 4000 | 92.9 | 97.5 | 100.4 | 103.4 | 105.1 | 104.9 | 106.8 | 105.7 | 107.5 | 111.1 | 112.3 | 109.9 |
| 5000 | 90.1 | 95.9 | 99.3 | 102.4 | 103.4 | 103.4 | 105.2 | 104.1 | 107.1 | 112.2 | 113.1 | 109.2 |
| 6300 | 87.4 | 93.1 | 97.6 | 99.9 | 99.4 | 101.3 | 101.8 | 102.3 | 104.8 | 112.6 | 113.5 | 108.0 |
| 8000 | 86.8 | 91.5 | 97.7 | 98.8 | 97.3 | 101.0 | 100.3 | 103.1 | 104.4 | 114.8 | 115.4 | 108.0 |
| 10000 | 90.1 | 94.7 | 101.4 | 100.8 | 99.4 | 105.3 | 105.7 | 106.2 | 109.6 | 122.6 | 121.3 | 113.8 |
| OVERALL CALCULATED | 110.5 | 114.1 | 116.0 | 117.5 | 118.5 | 118.6 | 120.4 | 122.2 | 125.3 | 132.6 | 134.1 | 131.9 |
| PN08 | 120.7 | 125.0 | 127.5 | 129.5 | 131.1 | 130.9 | 132.8 | 133.1 | 135.4 | 141.7 | 142.3 | 139.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 6 6150 45.7m(150ft.) ARC FULL-33m²(513in²)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|----------------------------------|---|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| SIDELINE 2400. FT.
(731.52 M) | 50 | 61.4 | 64.7 | 67.5 | 68.3 | 70.3 | 72.1 | 73.3 | 75.5 | 79.3 | 85.0 | 88.4 | 87.6 | 82.4 |
| NFA (1. RPM) | 63 | 61.9 | 65.2 | 67.3 | 69.1 | 71.1 | 73.3 | 74.6 | 76.5 | 81.3 | 88.0 | 90.7 | 88.8 | 82.9 |
| NFK (1. RPM) | 83 | 63.4 | 67.0 | 68.6 | 70.9 | 72.9 | 74.4 | 75.9 | 78.1 | 84.1 | 90.3 | 92.4 | 89.8 | 83.3 |
| NFD (7500. RPM) | 100 | 65.8 | 68.4 | 70.6 | 73.6 | 75.1 | 76.4 | 77.9 | 80.3 | 85.3 | 93.3 | 94.1 | 90.5 | 83.9 |
| NFE (785. RAD/SEC) | 125 | 70.8 | 73.9 | 76.3 | 77.6 | 77.9 | 77.9 | 79.4 | 81.8 | 87.0 | 94.0 | 94.8 | 93.6 | 84.5 |
| NFF (785. RAD/SEC) | 160 | 69.7 | 74.4 | 77.3 | 78.1 | 79.3 | 80.1 | 80.8 | 84.1 | 88.3 | 95.4 | 95.5 | 92.2 | 84.5 |
| NFG (785. RAD/SEC) | 200 | 68.6 | 72.6 | 74.2 | 76.5 | 77.8 | 79.8 | 81.1 | 83.0 | 88.7 | 95.6 | 95.9 | 91.8 | 83.9 |
| NFH (785. RAD/SEC) | 250 | 69.6 | 72.9 | 76.1 | 77.4 | 78.5 | 79.2 | 81.5 | 84.2 | 88.9 | 95.2 | 95.2 | 90.3 | 81.7 |
| NFI (785. RAD/SEC) | 315 | 68.9 | 72.0 | 75.2 | 77.3 | 79.1 | 79.6 | 81.9 | 84.6 | 89.0 | 93.3 | 93.7 | 87.5 | 78.5 |
| NFJ (785. RAD/SEC) | 400 | 70.0 | 73.6 | 76.7 | 77.8 | 78.9 | 79.9 | 81.9 | 85.0 | 88.9 | 93.2 | 92.6 | 85.2 | 76.4 |
| AIREFLOW RATIO | 500 | 69.3 | 73.3 | 75.9 | 77.5 | 79.1 | 79.4 | 81.6 | 84.8 | 87.6 | 91.7 | 90.1 | 82.9 | 73.3 |
| WF/WM 8.00 | 630 | 67.7 | 72.9 | 76.3 | 78.5 | 78.8 | 79.6 | 81.1 | 84.2 | 87.1 | 89.8 | 88.6 | 80.9 | 71.8 |
| VEHICLE CELL41 | 800 | 66.8 | 73.6 | 75.8 | 78.1 | 79.9 | 80.0 | 81.9 | 83.3 | 85.1 | 88.2 | 86.2 | 79.1 | 70.0 |
| CONFIG NC60 | 1000 | 65.9 | 73.9 | 76.8 | 79.1 | 79.8 | 79.8 | 81.8 | 83.4 | 85.3 | 86.9 | 84.1 | 77.0 | 68.7 |
| LOC C41 ANECH GH | 1250 | 54.0 | 72.5 | 75.8 | 78.4 | 80.3 | 81.9 | 83.6 | 84.7 | 81.9 | 81.3 | 75.5 | 65.8 | 65.8 |
| DATE 06-21-76 | 2000 | 58.0 | 66.4 | 71.3 | 75.3 | 77.1 | 78.3 | 78.1 | 79.6 | 78.7 | 79.9 | 81.1 | 78.1 | 72.2 |
| RUN CONF5ZEROFW | 2500 | 53.1 | 61.8 | 67.1 | 71.1 | 75.0 | 73.8 | 76.9 | 78.3 | 78.3 | 74.9 | 68.2 | 56.4 | 49.0 |
| TAPE X61500 | 3150 | 45.5 | 55.9 | 60.3 | 65.0 | 68.5 | 68.8 | 69.3 | 69.6 | 69.3 | 67.7 | 65.5 | 53.0 | 36.9 |
| FAN TIP SPEED | 4000 | 37.3 | 48.1 | 54.9 | 60.2 | 63.3 | 63.4 | 64.9 | 62.5 | 61.9 | 61.6 | 56.7 | 43.9 | 21.7 |
| FT/SEC | 5000 | 29.8 | 42.6 | 50.3 | 56.0 | 58.5 | 59.0 | 60.3 | 57.7 | 58.1 | 58.9 | 52.8 | 37.1 | 12.5 |
| | 5300 | 13.4 | 28.3 | 38.5 | 44.3 | 45.8 | 48.2 | 48.1 | 46.7 | 45.8 | 47.8 | 39.5 | 18.3 | |
| | 8000 | 9.1 | 23.1 | 29.1 | 30.2 | 34.7 | 33.2 | 32.4 | 29.9 | 32.4 | 20.9 | 20.2 | | |
| | 10000 | 5.3 | 11.3 | 13.5 | 13.5 | 19.8 | 16.7 | 13.6 | 15.6 | | | | | |
| OVERALL CALCULATED | 79.6 | 84.3 | 87.2 | 89.2 | 90.5 | 90.9 | 92.6 | 94.8 | 98.7 | 104.1 | 104.3 | 100.1 | 92.9 | 94.0 |
| PRUB | 84.5 | 90.3 | 94.1 | 97.2 | 99.0 | 99.0 | 100.8 | 101.2 | 104.4 | 108.3 | 107.7 | 102.5 | 94.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6150 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANES)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PUL
 FREQ. (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)(3.15)(3.3)

| NO EGA | RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PUL |
|--------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|
| 30 | 82-9 | 82.2 | 80.2 | 81.5 | 82.8 | 82.7 | 82.5 | 83.2 | 83.9 | 86.2 | 91.2 | 90.1 | 91.4 | 127.6 | | | | | | |
| 63 | 82-1 | 76.6 | 77.6 | 79.9 | 81.5 | 82.9 | 83.0 | 83.9 | 82.9 | 82.9 | 90.9 | 92.3 | 91.9 | 127.5 | | | | | | |
| 100 | 83-6 | 75.9 | 78.4 | 79.0 | 79.8 | 80.2 | 80.0 | 81.7 | 83.9 | 89.2 | 92.9 | 94.1 | 95.2 | 129.3 | | | | | | |
| 125 | 86-0 | 76.5 | 77.8 | 80.1 | 80.4 | 81.0 | 81.4 | 83.8 | 87.5 | 91.1 | 95.1 | 99.0 | 99.0 | 132.6 | | | | | | |
| 200 | 85-6 | 78.6 | 79.8 | 79.9 | 80.7 | 82.8 | 85.0 | 88.4 | 88.8 | 93.9 | 99.1 | 101.3 | 100.6 | 135.0 | | | | | | |
| 250 | 87-4 | 81.2 | 80.4 | 83.0 | 85.3 | 85.4 | 86.3 | 88.2 | 91.9 | 97.0 | 102.0 | 104.9 | 104.2 | 138.3 | | | | | | |
| 315 | 89-4 | 81.5 | 83.0 | 83.5 | 85.1 | 86.2 | 87.1 | 90.0 | 94.2 | 100.3 | 105.7 | 106.7 | 105.0 | 140.6 | | | | | | |
| 400 | 91-9 | 84.1 | 84.4 | 85.9 | 87.8 | 88.7 | 89.1 | 91.1 | 96.0 | 103.9 | 108.1 | 109.0 | 106.3 | 142.9 | | | | | | |
| 500 | 94-1 | 85.2 | 85.9 | 87.9 | 89.3 | 90.2 | 92.3 | 95.2 | 100.7 | 108.0 | 112.4 | 112.1 | 109.2 | 145.0 | | | | | | |
| 630 | 98-7 | 90.0 | 91.5 | 91.8 | 91.9 | 92.5 | 93.9 | 96.0 | 101.0 | 108.3 | 112.5 | 111.7 | 109.5 | 146.7 | | | | | | |
| 800 | 96-4 | 88.2 | 88.7 | 90.0 | 91.8 | 93.7 | 94.8 | 97.5 | 102.2 | 108.0 | 112.2 | 113.1 | 110.2 | 147.3 | | | | | | |
| 1000 | 98-2 | 89.0 | 91.0 | 91.3 | 92.6 | 93.5 | 95.3 | 101.7 | 107.3 | 110.3 | 111.4 | 108.0 | 145.9 | | | | | | | |
| 1250 | 95-8 | 88.1 | 89.6 | 91.4 | 93.0 | 93.6 | 95.7 | 98.1 | 102.8 | 105.7 | 108.4 | 108.5 | 105.3 | 144.1 | | | | | | |
| 1500 | 96-0 | 88.5 | 90.6 | 92.1 | 93.4 | 94.0 | 95.9 | 99.1 | 103.1 | 105.4 | 107.8 | 107.3 | 104.0 | 143.7 | | | | | | |
| 2000 | 95-3 | 88.1 | 90.6 | 92.6 | 94.0 | 94.6 | 96.0 | 98.6 | 102.3 | 103.7 | 105.9 | 106.3 | 101.3 | 142.6 | | | | | | |
| 3150 | 95-6 | 89.0 | 91.5 | 93.5 | 93.3 | 94.7 | 95.3 | 98.8 | 102.2 | 102.6 | 105.0 | 104.2 | 100.5 | 141.8 | | | | | | |
| 4000 | 94-5 | 87.3 | 89.8 | 92.1 | 94.2 | 95.8 | 96.9 | 98.6 | 101.6 | 102.7 | 104.9 | 104.8 | 99.8 | 142.0 | | | | | | |
| 5000 | 95-3 | 87.8 | 90.2 | 92.7 | 94.2 | 96.1 | 97.0 | 98.9 | 101.4 | 101.8 | 103.5 | 103.8 | 100.1 | 141.7 | | | | | | |
| 6300 | 94-2 | 89.5 | 91.1 | 92.6 | 94.7 | 95.0 | 96.9 | 98.6 | 100.6 | 100.5 | 102.7 | 104.3 | 99.5 | 141.6 | | | | | | |
| 8000 | 92.8 | 88.6 | 90.7 | 92.7 | 94.3 | 93.9 | 96.3 | 96.8 | 98.7 | 98.4 | 101.1 | 103.4 | 100.1 | 140.8 | | | | | | |
| 12500 | 91.9 | 88.2 | 89.7 | 92.3 | 94.1 | 94.0 | 96.4 | 97.9 | 97.7 | 96.7 | 100.5 | 102.3 | 98.5 | 140.8 | | | | | | |
| 16000 | 90.4 | 86.0 | 87.7 | 90.3 | 92.8 | 91.9 | 95.0 | 94.4 | 96.4 | 95.2 | 100.1 | 100.8 | 96.1 | 140.5 | | | | | | |
| 20000 | 88.3 | 83.9 | 85.1 | 87.4 | 89.6 | 89.5 | 90.3 | 91.0 | 93.6 | 91.5 | 98.9 | 96.8 | 91.9 | 139.0 | | | | | | |
| 25000 | 86.2 | 81.5 | 83.8 | 86.4 | 87.9 | 87.1 | 89.1 | 88.5 | 90.8 | 89.7 | 95.7 | 96.7 | 89.4 | 139.2 | | | | | | |
| 31500 | 81.9 | 76.6 | 80.2 | 82.5 | 82.3 | 84.3 | 83.7 | 87.5 | 87.2 | 87.2 | 94.0 | 93.0 | 85.6 | 139.2 | | | | | | |
| 40000 | 76.4 | 70.8 | 74.6 | 75.9 | 75.7 | 76.3 | 76.6 | 76.8 | 82.2 | 83.3 | 91.9 | 88.0 | 80.1 | 139.4 | | | | | | |
| 50000 | 70.9 | 64.0 | 69.0 | 69.6 | 69.1 | 70.0 | 69.3 | 71.4 | 77.3 | 80.5 | 89.0 | 83.6 | 75.0 | 142.0 | | | | | | |
| 63000 | 67.8 | 60.5 | 66.6 | 64.9 | 63.5 | 65.1 | 65.6 | 65.8 | 75.6 | 80.2 | 88.5 | 82.0 | 72.9 | 150.5 | | | | | | |
| 80000 | OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| | OVERALL CALCULATED | 107.8 | 100.8 | 102.4 | 104.2 | 105.5 | 106.3 | 107.9 | 109.9 | 113.5 | 117.6 | 121.4 | 121.8 | 118.8 | | | | | | |
| | PNUB | 119.9 | 112.5 | 114.3 | 116.0 | 117.3 | 118.2 | 119.6 | 122.3 | 126.1 | 129.3 | 132.3 | 132.8 | 129.7 | | | | | | |

CONFIGURATION 6 TEST POINT 6151 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-5l.7cm²(8.0in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOYS)

| RDG. NO. | NO EGA | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PROC. DATE - MONTH 8 DAY 30 HR. 16.3 | |
|--------------------|--------|-------|---------------------------------|-------|-------|-------|-------|---|-------|-------|-------|-------|--------------------------------------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. |
| 51 | 96.0 | 88.7 | 89.6 | 90.1 | 91.7 | 92.8 | 93.7 | 96.6 | 103.8 | 106.9 | 112.3 | 113.3 | 111.5 | 158.7 |
| 63 | 96.6 | 88.4 | 89.9 | 91.4 | 92.5 | 94.4 | 95.3 | 97.7 | 103.6 | 106.9 | 112.3 | 113.3 | 111.5 | 161.3 |
| 81 | 98.5 | 90.7 | 91.0 | 92.5 | 94.4 | 95.2 | 96.9 | 99.8 | 105.2 | 112.3 | 117.3 | 115.6 | 112.9 | 161.3 |
| 103 | 100.7 | 91.8 | 92.5 | 94.6 | 95.9 | 96.8 | 98.9 | 101.8 | 107.3 | 114.6 | 119.0 | 118.7 | 115.8 | 163.0 |
| 125 | 105.3 | 96.6 | 98.1 | 98.4 | 98.5 | 99.1 | 100.5 | 102.6 | 107.6 | 114.9 | 119.1 | 118.3 | 116.1 | 164.8 |
| 160 | 103.4 | 96.7 | 97.4 | 99.0 | 99.3 | 100.7 | 102.3 | 104.7 | 108.4 | 115.0 | 119.5 | 119.9 | 116.9 | 164.9 |
| 200 | 103.0 | 94.8 | 95.3 | 96.6 | 98.4 | 100.3 | 101.4 | 104.1 | 108.8 | 114.6 | 118.8 | 119.3 | 116.9 | 165.7 |
| 250 | 104.8 | 95.6 | 97.6 | 97.9 | 99.2 | 100.1 | 102.0 | 104.9 | 108.4 | 114.0 | 118.9 | 118.1 | 114.6 | 165.3 |
| 315 | 102.5 | 94.7 | 96.3 | 98.0 | 99.6 | 100.2 | 102.4 | 104.8 | 109.5 | 112.3 | 115.0 | 115.2 | 112.5 | 163.9 |
| 400 | 102.7 | 95.3 | 97.3 | 98.8 | 100.1 | 100.8 | 102.6 | 105.8 | 109.8 | 112.1 | 114.6 | 114.0 | 110.8 | 162.2 |
| 500 | 102.0 | 94.8 | 97.4 | 99.4 | 100.7 | 101.3 | 102.7 | 105.4 | 109.1 | 110.5 | 112.7 | 113.1 | 108.1 | 161.5 |
| 630 | 102.5 | 95.8 | 98.3 | 100.3 | 101.1 | 102.1 | 105.6 | 109.0 | 109.4 | 111.8 | 111.0 | 111.0 | 107.3 | 159.9 |
| 800 | 101.4 | 94.2 | 96.8 | 98.0 | 101.1 | 102.7 | 103.8 | 105.5 | 109.6 | 111.8 | 111.0 | 111.0 | 107.3 | 159.9 |
| 1000 | 102.4 | 95.0 | 97.3 | 99.8 | 101.4 | 103.2 | 104.1 | 106.0 | 108.5 | 108.5 | 110.6 | 111.0 | 107.3 | 160.3 |
| 1250 | 101.6 | 96.9 | 98.5 | 100.0 | 102.1 | 102.4 | 104.3 | 106.0 | 108.0 | 107.9 | 110.1 | 111.7 | 106.9 | 159.5 |
| 1600 | 100.6 | 96.4 | 98.5 | 100.5 | 102.0 | 102.4 | 104.3 | 106.0 | 108.0 | 107.9 | 110.1 | 111.7 | 106.9 | 158.9 |
| 2000 | 100.4 | 96.7 | 98.1 | 100.8 | 102.6 | 102.4 | 104.3 | 106.0 | 108.0 | 107.9 | 110.1 | 111.7 | 106.9 | 158.5 |
| 2500 | 99.8 | 95.4 | 97.0 | 99.6 | 102.2 | 101.2 | 104.4 | 103.7 | 105.8 | 104.6 | 109.5 | 110.1 | 105.5 | 158.5 |
| 3150 | 98.9 | 94.5 | 95.7 | 98.0 | 100.2 | 100.2 | 100.9 | 101.6 | 104.2 | 102.1 | 109.5 | 107.5 | 102.5 | 157.1 |
| 4000 | 98.6 | 94.0 | 96.2 | 98.9 | 100.4 | 99.6 | 101.5 | 100.9 | 103.2 | 102.1 | 108.1 | 109.2 | 101.9 | 157.3 |
| 5000 | 97.4 | 92.0 | 95.7 | 98.0 | 97.8 | 98.3 | 99.8 | 99.2 | 103.0 | 102.7 | 109.5 | 108.5 | 101.1 | 157.2 |
| 6300 | 95.5 | 90.0 | 93.8 | 95.1 | 94.9 | 95.5 | 95.7 | 96.0 | 101.3 | 102.4 | 111.1 | 107.2 | 99.2 | 157.6 |
| 8000 | 95.5 | 88.6 | 93.6 | 94.2 | 93.7 | 94.6 | 93.9 | 96.0 | 101.8 | 105.0 | 113.6 | 108.1 | 99.6 | 167.1 |
| 10000 | 100.4 | 93.2 | 99.2 | 97.5 | 96.1 | 97.8 | 98.2 | 98.4 | 108.2 | 112.8 | 121.2 | 114.5 | 105.5 | 165.5 |
| OVERALL CALCULATED | 115.0 | 108.3 | 110.4 | 112.0 | 113.3 | 113.9 | 115.5 | 117.2 | 123.9 | 124.7 | 129.1 | 128.7 | 125.3 | 175.1 |
| PND8 | 125.7 | 120.1 | 122.2 | 124.2 | 125.7 | 125.7 | 127.8 | 128.4 | 131.6 | 133.0 | 138.7 | 137.2 | 132.6 | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6/5/ ACoustic RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|------|------|------|------|------|------|------|------|-------|-------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 53 | 67.9 | 61.4 | 64.0 | 65.3 | 67.3 | 68.6 | 69.3 | 71.8 | 75.3 | 80.3 | 84.2 | 82.8 | 77.7 |
| 80 | 68.4 | 61.7 | 64.3 | 66.6 | 68.1 | 70.1 | 70.8 | 72.8 | 77.1 | 83.3 | 86.4 | 85.1 | 78.9 |
| 100 | 70.1 | 64.0 | 65.4 | 67.6 | 69.9 | 70.9 | 72.4 | 74.9 | 79.6 | 85.6 | 88.9 | 86.8 | 79.8 |
| 125 | 72.3 | 66.9 | 66.8 | 69.6 | 71.4 | 72.4 | 74.4 | 76.8 | 81.6 | 87.8 | 90.6 | 88.2 | 81.4 |
| 150 | 76.8 | 69.7 | 72.3 | 73.3 | 73.9 | 74.6 | 75.9 | 77.6 | 81.8 | 88.0 | 90.6 | 87.4 | 81.5 |
| 175 | 74.7 | 69.6 | 71.5 | 73.8 | 74.5 | 76.1 | 77.6 | 79.6 | 82.5 | 87.9 | 90.7 | 88.7 | 82.0 |
| 200 | 74.1 | 67.6 | 69.2 | 71.3 | 73.6 | 75.6 | 76.6 | 78.8 | 82.7 | 87.4 | 89.9 | 88.3 | 81.4 |
| 250 | 75.6 | 68.1 | 71.4 | 72.4 | 74.2 | 75.2 | 77.0 | 79.4 | 82.1 | 86.5 | 87.7 | 86.3 | 78.7 |
| 315 | 72.9 | 67.0 | 69.7 | 72.3 | 74.4 | 75.1 | 77.1 | 79.1 | 83.0 | 84.6 | 85.5 | 83.0 | 75.5 |
| 400 | 72.7 | 67.1 | 70.4 | 72.8 | 74.6 | 75.4 | 77.1 | 79.8 | 82.9 | 84.0 | 84.6 | 81.2 | 73.4 |
| 500 | 71.5 | 66.3 | 70.1 | 73.0 | 74.9 | 75.6 | 76.9 | 79.0 | 81.9 | 81.9 | 82.1 | 79.6 | 69.7 |
| 630 | 71.2 | 66.6 | 70.6 | 73.5 | 73.8 | 75.4 | 75.8 | 78.7 | 81.3 | 80.3 | 80.6 | 76.6 | 67.6 |
| 800 | 69.3 | 64.3 | 68.4 | 71.6 | 74.2 | 76.0 | 77.0 | 78.1 | 81.1 | 79.7 | 79.7 | 76.2 | 65.3 |
| 1000 | 69.2 | 64.2 | 68.1 | 71.6 | 73.8 | 75.8 | 76.5 | 77.9 | 79.3 | 78.1 | 77.4 | 74.0 | 63.7 |
| 1250 | 67.0 | 65.0 | 68.3 | 70.9 | 73.6 | 74.2 | 75.9 | 76.9 | 77.8 | 76.0 | 75.5 | 73.0 | 60.8 |
| 1600 | 64.1 | 62.9 | 66.9 | 70.1 | 72.4 | 72.2 | 74.4 | 74.3 | 74.9 | 72.7 | 72.4 | 70.0 | 58.1 |
| 2000 | 61.6 | 61.2 | 64.9 | 68.9 | 71.4 | 71.5 | 73.7 | 72.4 | 72.9 | 69.7 | 70.2 | 66.5 | 52.7 |
| 2500 | 57.7 | 57.1 | 61.3 | 65.5 | 68.9 | 68.2 | 71.1 | 69.5 | 70.1 | 66.4 | 67.4 | 61.6 | 44.8 |
| 3150 | 51.4 | 51.8 | 56.0 | 60.2 | 63.4 | 63.8 | 64.2 | 63.8 | 64.5 | 59.4 | 61.9 | 51.9 | 31.5 |
| 4000 | 43.0 | 44.6 | 50.6 | 55.7 | 58.5 | 58.1 | 59.7 | 57.7 | 57.7 | 52.7 | 52.5 | 43.1 | 15.4 |
| 5000 | 37.1 | 38.7 | 46.7 | 51.6 | 52.9 | 53.9 | 54.9 | 52.8 | 54.0 | 49.3 | 49.2 | 36.4 | 5.6 |
| 6300 | 21.5 | 25.2 | 34.7 | 39.5 | 41.2 | 42.4 | 42.1 | 40.4 | 42.3 | 37.6 | 37.0 | 17.2 | |
| 8000 | 11.3 | 6.2 | 19.0 | 24.5 | 26.5 | 28.3 | 26.8 | 26.2 | 27.3 | 22.7 | 18.4 | | |
| 10000 | 3.2 | 8.1 | 10.2 | 13.0 | 13.0 | 13.0 | 12.3 | 9.0 | 12.2 | 6.0 | | | |
| OVERALL CALCULATED | 84.3 | 78.5 | 81.4 | 83.8 | 85.6 | 86.7 | 88.1 | 89.9 | 93.0 | 96.6 | 98.8 | 96.5 | 89.3 |
| PNOB | 88.8 | 84.3 | 88.0 | 91.4 | 93.6 | 94.2 | 95.9 | 96.3 | 98.8 | 100.0 | 101.7 | 99.1 | 90.8 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **6** TEST POINT **6/5/** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. PWL

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | PWL |
|--|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
| 100 | 63 | 55.4 | 63.9 | 62.7 | 63.7 | 63.5 | 64.4 | 63.8 | 65.0 | 67.9 | 70.2 | 72.9 | 72.9 | 66.1 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 109.1 |
| 125 | 80 | 56.1 | 60.4 | 61.9 | 63.4 | 64.5 | 65.6 | 65.5 | 67.4 | 66.9 | 67.7 | 67.7 | 72.9 | 67.6 | 74.1 | 72.9 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 109.2 |
| 200 | 90 | 61.0 | 62.0 | 63.8 | 65.8 | 66.2 | 66.0 | 66.7 | 70.1 | 72.3 | 76.6 | 79.1 | 75.5 | 75.5 | 83.5 | 79.1 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 111.3 |
| 315 | 90 | 65.4 | 63.7 | 66.3 | 66.6 | 68.2 | 69.6 | 71.7 | 73.4 | 75.1 | 80.4 | 84.4 | 78.8 | 86.3 | 119.3 | 80.4 | 78.8 | 86.3 | 86.3 | 86.3 | 86.3 | 115.6 |
| 400 | 100 | 67.9 | 70.7 | 72.5 | 72.5 | 74.1 | 74.7 | 75.8 | 78.8 | 82.0 | 88.3 | 92.5 | 88.0 | 84.1 | 90.7 | 84.1 | 88.0 | 84.1 | 90.7 | 90.7 | 90.7 | 123.3 |
| 500 | 100 | 70.0 | 71.8 | 73.5 | 74.6 | 75.9 | 77.0 | 77.9 | 81.1 | 84.3 | 91.6 | 95.6 | 91.5 | 96.0 | 126.8 | 81.1 | 84.3 | 91.6 | 95.6 | 95.6 | 95.6 | 126.8 |
| 630 | 110 | 72.6 | 74.4 | 75.4 | 76.9 | 78.3 | 79.1 | 80.8 | 83.7 | 86.4 | 93.7 | 98.7 | 95.1 | 98.4 | 132.7 | 79.1 | 83.7 | 93.7 | 98.7 | 98.7 | 98.7 | 132.7 |
| 800 | 120 | 74.6 | 76.4 | 76.7 | 78.7 | 80.0 | 80.9 | 82.3 | 85.7 | 88.7 | 94.5 | 99.7 | 96.4 | 99.7 | 133.8 | 80.9 | 85.7 | 94.5 | 99.7 | 99.7 | 99.7 | 133.8 |
| 1000 | 130 | 78.2 | 79.2 | 80.7 | 81.0 | 81.6 | 82.2 | 84.1 | 86.5 | 89.5 | 94.6 | 99.3 | 94.9 | 98.2 | 133.4 | 81.6 | 82.2 | 84.1 | 86.5 | 89.5 | 94.6 | 133.4 |
| 1250 | 140 | 76.9 | 79.2 | 80.9 | 81.7 | 82.8 | 84.4 | 85.6 | 88.5 | 90.9 | 94.8 | 96.7 | 93.4 | 94.7 | 132.3 | 80.9 | 81.7 | 82.8 | 84.4 | 85.6 | 90.9 | 132.3 |
| 1600 | 150 | 77.9 | 79.5 | 82.7 | 82.8 | 84.3 | 84.7 | 86.3 | 89.0 | 91.5 | 94.1 | 95.3 | 91.7 | 92.2 | 131.6 | 82.7 | 82.8 | 84.3 | 84.7 | 86.3 | 89.0 | 131.6 |
| 2000 | 160 | 78.5 | 81.3 | 84.3 | 83.9 | 84.7 | 85.8 | 87.0 | 89.1 | 92.3 | 93.9 | 95.6 | 91.8 | 91.6 | 132.0 | 81.3 | 83.9 | 84.7 | 85.8 | 87.0 | 89.1 | 132.0 |
| 3150 | 170 | 78.5 | 82.5 | 86.3 | 85.6 | 86.7 | 87.0 | 88.2 | 91.3 | 93.3 | 95.2 | 97.3 | 93.8 | 94.0 | 133.6 | 82.5 | 86.3 | 86.7 | 87.0 | 88.2 | 91.3 | 133.6 |
| 4000 | 180 | 78.8 | 82.3 | 86.6 | 86.4 | 88.2 | 88.6 | 89.2 | 90.9 | 92.8 | 93.9 | 96.1 | 93.5 | 94.6 | 133.4 | 82.3 | 86.6 | 86.4 | 88.2 | 88.6 | 90.9 | 133.4 |
| 5000 | 190 | 78.4 | 82.2 | 86.5 | 88.3 | 88.3 | 89.2 | 89.6 | 91.8 | 93.0 | 93.3 | 96.0 | 94.7 | 95.9 | 133.8 | 82.2 | 86.5 | 88.3 | 88.3 | 89.2 | 89.6 | 133.8 |
| 6300 | 200 | 78.7 | 83.0 | 87.1 | 88.1 | 89.4 | 90.0 | 90.7 | 91.6 | 93.6 | 93.7 | 95.4 | 94.5 | 97.0 | 134.2 | 83.0 | 83.0 | 87.1 | 88.1 | 89.4 | 90.0 | 134.2 |
| 8000 | 210 | 78.0 | 83.3 | 86.4 | 88.2 | 89.5 | 90.1 | 91.5 | 92.4 | 94.4 | 94.3 | 96.7 | 94.3 | 96.8 | 135.0 | 83.3 | 86.4 | 86.4 | 88.2 | 89.5 | 90.1 | 135.0 |
| 10000 | 220 | 76.7 | 82.0 | 85.1 | 86.9 | 89.7 | 89.3 | 90.7 | 92.4 | 94.9 | 94.3 | 96.7 | 95.5 | 97.0 | 135.3 | 82.0 | 85.1 | 86.9 | 89.7 | 89.3 | 90.7 | 135.3 |
| 12500 | 230 | 74.1 | 81.1 | 83.5 | 86.2 | 88.0 | 88.3 | 90.5 | 90.8 | 92.5 | 92.4 | 95.3 | 94.1 | 96.6 | 134.4 | 81.1 | 83.5 | 86.2 | 88.0 | 88.3 | 90.5 | 134.4 |
| 16000 | 240 | 72.4 | 79.4 | 82.1 | 84.8 | 87.1 | 87.2 | 89.6 | 89.6 | 91.6 | 90.4 | 93.7 | 93.0 | 94.9 | 133.9 | 79.4 | 82.1 | 84.8 | 87.1 | 87.2 | 89.6 | 133.9 |
| 20000 | 250 | 68.6 | 76.2 | 78.8 | 81.2 | 85.2 | 84.8 | 87.5 | 86.5 | 89.1 | 87.2 | 91.1 | 90.7 | 92.1 | 132.3 | 76.2 | 78.8 | 81.2 | 85.2 | 84.8 | 87.5 | 132.3 |
| 25000 | 260 | 64.5 | 73.1 | 75.2 | 78.3 | 80.7 | 81.0 | 82.2 | 83.6 | 85.7 | 83.4 | 88.0 | 84.5 | 87.8 | 129.9 | 73.1 | 75.2 | 78.3 | 80.7 | 81.0 | 82.2 | 129.9 |
| 31500 | 270 | 61.1 | 69.9 | 72.9 | 75.8 | 77.8 | 78.0 | 80.5 | 80.6 | 82.2 | 79.0 | 83.3 | 83.8 | 83.5 | 128.8 | 69.9 | 72.9 | 75.8 | 77.8 | 78.0 | 80.5 | 128.8 |
| 40000 | 280 | 54.8 | 64.4 | 68.8 | 71.1 | 72.4 | 72.4 | 74.9 | 75.0 | 77.1 | 75.2 | 78.6 | 78.1 | 78.9 | 126.9 | 64.4 | 68.8 | 71.1 | 72.4 | 72.4 | 74.9 | 126.9 |
| 50000 | 290 | 48.2 | 57.9 | 63.1 | 64.2 | 63.5 | 64.6 | 66.1 | 67.1 | 69.4 | 67.2 | 71.4 | 69.5 | 69.8 | 123.3 | 57.9 | 63.1 | 64.2 | 63.5 | 64.6 | 66.1 | 123.3 |
| 63000 | 300 | 41.4 | 52.5 | 57.7 | 57.6 | 56.5 | 57.0 | 57.0 | 59.6 | 61.4 | 59.3 | 65.7 | 60.8 | 61.7 | 122.3 | 41.4 | 52.5 | 57.7 | 57.6 | 56.5 | 57.0 | 122.3 |
| 80000 | 310 | 37.7 | 49.6 | 55.4 | 53.0 | 51.9 | 52.5 | 53.9 | 54.4 | 56.4 | 53.2 | 60.3 | 54.3 | 56.5 | 126.8 | 49.6 | 55.4 | 53.0 | 51.9 | 52.5 | 53.9 | 126.8 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 89.1 92.9 96.1 97.2 98.7 99.2 100.5 102.1 104.3 106.1 109.2 106.4 108.8 | | | | | | | | | | | | | | | | | | | | | | |
| PNDB 101.7 105.2 108.6 109.3 110.4 110.9 111.8 114.0 116.2 118.4 120.9 117.7 119.6 | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6 / 52 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-5l.7cm²(8.0in²)

| FULL SIZE SOUND PRESSURE LEVELS | | SCALED FROM ANGLES FROM INLET | | MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 30 HR. 16.3 | | | | | | | | |
|--|-------|---|-------|--|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. | | INLET IN DEGREES (AND RADIAN) | | D. D. C.) (C.) (C.) | | D. D. C.) (C.) (C.) | | | | | | | | |
| 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. | | 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. | | 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. | | 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. | | | | | | | | |
| NO EGA | 53 | 74.5 | 77.3 | 79.1 | 80.7 | 81.3 | 82.4 | 85.3 | 88.6 | 94.9 | 99.1 | 94.0 | 99.6 | 144.8 |
| RDG. NO. 0 | 63 | 76.6 | 78.4 | 80.1 | 81.2 | 82.5 | 83.6 | 84.5 | 87.7 | 93.9 | 98.2 | 102.2 | 98.1 | 102.6 |
| RADIAL 150. FT. | 80 | 79.2 | 81.0 | 82.0 | 83.5 | 84.9 | 85.7 | 87.4 | 90.3 | 93.0 | 100.3 | 105.3 | 101.7 | 105.0 |
| (46. M) | 100 | 81.2 | 83.0 | 83.3 | 85.3 | 86.6 | 87.5 | 88.9 | 92.3 | 95.3 | 101.1 | 106.3 | 103.0 | 106.3 |
| VEHICLE CELL41 | 125 | 84.8 | 85.8 | 87.4 | 87.6 | 88.2 | 88.8 | 90.7 | 93.1 | 95.1 | 101.2 | 105.9 | 101.5 | 104.8 |
| CONFIG MC60 | 160 | 83.4 | 85.4 | 87.7 | 88.5 | 88.6 | 90.4 | 91.6 | 94.7 | 97.7 | 101.3 | 104.7 | 101.2 | 102.7 |
| LCC C41 ANECH CH | 200 | 83.5 | 85.8 | 87.6 | 88.3 | 89.4 | 91.1 | 92.2 | 95.1 | 97.6 | 101.4 | 103.3 | 100.0 | 101.3 |
| DATE 06-21-76 | 250 | 84.6 | 86.1 | 89.4 | 89.4 | 91.0 | 91.4 | 93.0 | 95.7 | 98.1 | 100.7 | 101.9 | 98.3 | 98.9 |
| RUN CONF6ZEROFW | 315 | 85.2 | 89.3 | 93.0 | 92.3 | 93.4 | 93.8 | 94.9 | 98.1 | 100.0 | 101.9 | 104.1 | 107.5 | 100.8 |
| TAPE X61520 | 400 | 85.5 | 89.1 | 93.4 | 93.1 | 95.0 | 95.3 | 96.0 | 97.6 | 99.6 | 100.7 | 102.9 | 100.3 | 101.3 |
| BAR 29.4 HG | 500 | 85.2 | 89.0 | 93.3 | 95.1 | 95.1 | 96.0 | 96.4 | 98.6 | 99.6 | 100.6 | 102.3 | 101.5 | 102.8 |
| (99347. N/M2) | 600 | 85.6 | 89.9 | 94.0 | 95.0 | 96.3 | 96.9 | 97.6 | 98.5 | 100.5 | 100.6 | 102.3 | 101.4 | 103.9 |
| TAMB 66. DEG F | 1000 | 85.1 | 90.4 | 93.5 | 95.3 | 96.6 | 97.2 | 98.6 | 99.5 | 101.5 | 101.4 | 103.8 | 101.4 | 103.9 |
| (292. DEG K) | 1250 | 84.0 | 89.4 | 92.5 | 94.2 | 97.1 | 96.7 | 98.1 | 99.7 | 102.3 | 101.7 | 104.1 | 102.9 | 104.4 |
| TWET 61. DEG F | 1600 | 81.9 | 88.9 | 91.2 | 94.0 | 95.8 | 96.1 | 98.3 | 98.6 | 100.2 | 103.1 | 101.9 | 104.4 | |
| (289. DEG K) | 2000 | 80.9 | 87.9 | 90.6 | 93.3 | 95.6 | 95.7 | 98.1 | 98.1 | 100.1 | 98.9 | 102.2 | 101.5 | 103.4 |
| HACT12.23 GM/M3 | 2500 | 78.0 | 85.6 | 88.2 | 90.6 | 94.6 | 94.2 | 96.8 | 95.9 | 98.5 | 96.5 | 100.4 | 100.1 | 101.4 |
| (.01223 KG/M3) | 3150 | 75.1 | 83.7 | 85.8 | 88.9 | 91.3 | 91.6 | 92.8 | 94.3 | 95.4 | 94.0 | 98.6 | 95.1 | 98.4 |
| FREQ. SHIFT | 4000 | 73.5 | 82.4 | 85.3 | 88.3 | 90.3 | 90.5 | 92.9 | 93.0 | 94.6 | 91.5 | 95.7 | 96.3 | 96.0 |
| JET | 5000 | 70.2 | 79.9 | 84.3 | 86.5 | 87.8 | 87.9 | 90.3 | 90.5 | 92.6 | 90.7 | 94.1 | 93.6 | 94.4 |
| DIAMETER RATIO | 6300 | 67.3 | 77.0 | 82.3 | 83.3 | 82.7 | 83.7 | 85.3 | 86.3 | 85.6 | 85.4 | 90.5 | 88.7 | 89.0 |
| DF/DM 8.00 | 8000 | 66.0 | 77.0 | 82.2 | 82.1 | 81.1 | 81.5 | 81.6 | 84.1 | 85.0 | 83.9 | 90.2 | 85.3 | 86.3 |
| OVERALL CALCULATED | 10000 | 70.4 | 82.3 | 88.0 | 85.6 | 84.5 | 85.1 | 86.5 | 87.0 | 89.0 | 85.8 | 92.9 | 86.9 | 89.1 |
| | PND9 | 104.8 | 110.9 | 113.9 | 115.7 | 117.8 | 118.0 | 119.9 | 120.5 | 122.7 | 122.4 | 125.8 | 124.2 | 125.8 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 6 TEST POINT 6/52 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

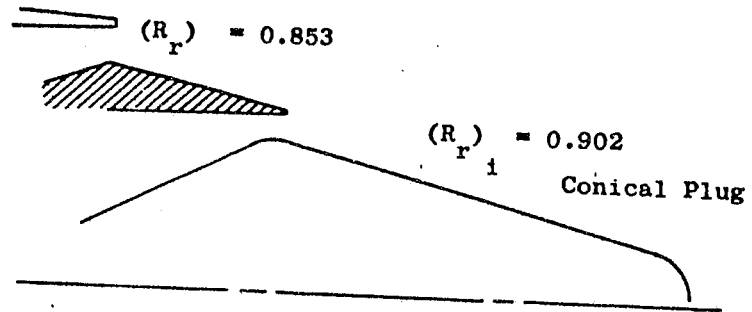
| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| FREQ. (0.70) (1.05) (1.22) (1.40) (1.57) (1.75) (1.92) (2.09) (2.27) (2.44) (2.62) (2.79) (3.0) (3.2) | 50 | 46.4 | 50.7 | 53.5 | 54.3 | 56.3 | 58.1 | 59.3 | 60.1 | 62.8 | 65.3 | 71.5 | 73.9 | 68.6 |
| SIDELINE 2400. FT. (731.52 M) | 80 | 50.9 | 54.2 | 56.4 | 58.6 | 60.4 | 62.9 | 65.4 | 67.4 | 73.6 | 76.9 | 71.1 | 70.8 | 71.9 |
| NFA (1. RPM) | 125 | 56.3 | 58.9 | 61.5 | 62.6 | 63.6 | 64.4 | 66.1 | 68.1 | 70.3 | 74.2 | 77.3 | 77.6 | 70.2 |
| NFK (1. RPM) | 200 | 54.6 | 58.5 | 61.5 | 63.0 | 64.6 | 66.3 | 67.3 | 69.8 | 71.5 | 74.1 | 74.4 | 68.5 | 65.9 |
| NFD (0. RAD/SEC) | 250 | 55.4 | 58.6 | 63.1 | 63.9 | 66.0 | 66.5 | 68.0 | 70.2 | 71.9 | 73.2 | 72.7 | 66.6 | 63.0 |
| AIRFLOW RATIO WF/WH 8.00 | 315 | 55.7 | 60.2 | 64.5 | 64.8 | 66.1 | 67.4 | 68.4 | 70.1 | 72.5 | 72.8 | 72.7 | 66.2 | 61.7 |
| VEHICLE CELL41 | 400 | 55.0 | 60.5 | 66.1 | 66.8 | 69.1 | 69.6 | 70.1 | 71.3 | 72.4 | 72.4 | 72.4 | 66.9 | 63.0 |
| CONFIG NCAF | 600 | 53.5 | 60.1 | 65.6 | 67.6 | 68.8 | 69.9 | 70.1 | 71.7 | 72.1 | 71.0 | 71.6 | 67.1 | 63.1 |
| LJC C41 ANECH CH | 800 | 51.9 | 59.7 | 64.3 | 67.1 | 69.0 | 69.8 | 71.0 | 71.4 | 72.3 | 70.6 | 70.6 | 64.5 | 60.5 |
| DATE C6-21-76 | 1000 | 49.5 | 57.5 | 62.3 | 65.2 | 68.6 | 68.4 | 69.6 | 70.7 | 72.1 | 69.7 | 69.5 | 64.2 | 58.3 |
| RUN CONF6ZEROFW | 1250 | 45.4 | 55.3 | 59.6 | 63.6 | 66.1 | 66.7 | 68.6 | 68.2 | 68.6 | 66.7 | 66.6 | 60.7 | 54.5 |
| TAPE X61520 | 1600 | 42.1 | 52.5 | 57.3 | 61.4 | 64.4 | 64.7 | 66.9 | 66.2 | 66.9 | 63.4 | 63.4 | 57.3 | 49.2 |
| FAN TIP SPEED FT/SEC | 2500 | 35.9 | 47.3 | 52.5 | 56.4 | 61.3 | 61.2 | 63.5 | 61.7 | 62.7 | 58.3 | 58.3 | 51.5 | 40.8 |
| OVERALL CALCULATED | 3150 | 27.6 | 40.9 | 46.2 | 51.1 | 54.6 | 55.2 | 56.1 | 56.5 | 56.7 | 51.3 | 51.1 | 39.6 | 27.4 |
| | 4000 | 17.9 | 32.9 | 39.8 | 45.1 | 48.4 | 49.0 | 51.0 | 49.8 | 49.0 | 42.0 | 40.1 | 30.3 | 9.5 |
| | 5000 | 9.9 | 26.5 | 33.3 | 40.2 | 43.0 | 43.5 | 45.5 | 44.2 | 43.5 | 37.4 | 33.7 | 21.5 | |
| | 6000 | 12.2 | 23.2 | 27.8 | 29.0 | 30.7 | 31.6 | 30.7 | 29.5 | 21.6 | 16.5 | | | |
| | 8000 | 7.7 | 12.4 | 14.0 | 15.2 | 14.5 | 14.4 | 11.5 | 1.5 | | | | | |
| | 10000 | 0.4 | 0.6 | | | | | | | | | | | |
| PNDB | 65.5 | 70.6 | 75.1 | 76.8 | 78.7 | 79.4 | 80.5 | 81.8 | 83.2 | 84.5 | 86.0 | 80.1 | 78.6 | |
| | 69.2 | 76.0 | 81.0 | 83.7 | 86.2 | 86.8 | 88.4 | 88.8 | 89.8 | 89.2 | 89.8 | 83.4 | 79.2 | * |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 6152 731.5m(2400ft.) SIDELINE FULL-33m²(513in²)

6.7 Acoustic Data

• Coannular Configuration No. 7



$$A^o = 18.049 \text{ in.}^2$$

$$A_T = A^o + A^i = 23.927 \text{ in.}^2$$

6-11-67

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| RDG. NO. | NO. OF G. | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | | | | | PWL | | | |
|--------------------|-----------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | | 130. | 140. | 150. |
| 100 | 63 | 68.9 | 77.4 | 74.9 | 76.7 | 77.5 | 77.4 | 78.0 | 78.7 | 78.9 | 81.0 | 85.2 | 84.6 | 87.4 |
| 125 | 80 | 68.1 | 72.9 | 73.9 | 75.2 | 76.7 | 77.9 | 78.0 | 78.9 | 77.4 | 76.9 | 84.9 | 86.6 | 87.6 |
| 160 | CELL41 | 68.4 | 73.7 | 72.7 | 73.2 | 74.3 | 74.4 | 75.0 | 76.5 | 77.4 | 82.0 | 85.2 | 86.9 | 89.4 |
| 200 | NC32 | 70.0 | 71.0 | 72.5 | 74.1 | 74.4 | 75.5 | 76.2 | 79.1 | 83.8 | 83.4 | 87.1 | 91.3 | 93.0 |
| 250 | ANECH GH | 70.1 | 72.8 | 74.1 | 73.6 | 75.2 | 76.6 | 78.7 | 79.9 | 81.6 | 84.9 | 89.6 | 92.3 | 94.3 |
| 315 | 28-76 | 71.2 | 74.4 | 74.2 | 76.2 | 78.1 | 78.4 | 79.3 | 81.5 | 83.4 | 86.8 | 90.7 | 94.6 | 95.9 |
| 400 | CONFHIGHFLW | 72.7 | 74.5 | 76.5 | 77.0 | 78.1 | 79.5 | 80.1 | 82.3 | 84.7 | 88.5 | 92.2 | 94.2 | 95.0 |
| 500 | XC7600 | 74.0 | 74.5 | 76.5 | 77.1 | 78.9 | 80.0 | 81.4 | 83.6 | 85.3 | 89.1 | 92.3 | 93.7 | 93.5 |
| 630 | 29.4 HG | 74.6 | 76.1 | 77.1 | 78.4 | 79.5 | 81.4 | 82.5 | 84.7 | 87.1 | 89.2 | 91.7 | 93.3 | 91.6 |
| 800 | (99381. N/M2) | 75.4 | 77.4 | 77.9 | 79.4 | 80.8 | 82.2 | 83.5 | 85.4 | 87.9 | 90.0 | 92.7 | 92.1 | 91.6 |
| 1000 | 64. DEG F | 76.0 | 77.7 | 78.5 | 79.5 | 81.1 | 83.0 | 83.6 | 86.0 | 87.5 | 90.1 | 91.8 | 89.9 | 87.7 |
| 1250 | (291. DEG K) | 76.3 | 77.6 | 79.3 | 79.9 | 80.7 | 82.6 | 83.4 | 86.4 | 87.8 | 89.6 | 90.6 | 89.0 | 85.8 |
| 1600 | 59. DEG F | 76.1 | 78.2 | 78.7 | 79.7 | 81.1 | 83.4 | 83.6 | 85.2 | 87.4 | 89.8 | 89.7 | 87.4 | 84.4 |
| 2000 | (288. DEG K) | 76.2 | 78.2 | 79.2 | 79.3 | 81.3 | 82.5 | 84.3 | 86.0 | 87.2 | 89.1 | 88.0 | 85.2 | 82.2 |
| 2500 | HAET11.34 GM/M3 | 76.3 | 78.1 | 79.6 | 79.6 | 81.0 | 82.1 | 83.5 | 85.4 | 86.8 | 87.4 | 86.6 | 84.0 | 81.3 |
| 3150 | (.01134 KG/M3) | 76.0 | 79.3 | 81.1 | 80.1 | 81.2 | 82.5 | 83.4 | 85.8 | 87.1 | 87.4 | 85.6 | 83.3 | 80.5 |
| 4000 | JET 0 | 75.3 | 79.1 | 79.1 | 79.1 | 80.5 | 81.1 | 82.5 | 85.4 | 86.1 | 86.7 | 83.9 | 81.8 | 79.1 |
| 5000 | DIAMETER RATIO | 74.4 | 77.5 | 79.2 | 79.3 | 79.3 | 81.5 | 82.3 | 84.5 | 86.2 | 85.3 | 83.3 | 81.2 | 79.2 |
| 6300 | DF/DM 1.00 | 73.5 | 76.8 | 77.8 | 78.3 | 80.4 | 81.8 | 82.2 | 83.8 | 85.6 | 84.7 | 82.6 | 81.5 | 81.0 |
| 8000 | | 71.8 | 75.6 | 75.6 | 77.7 | 79.7 | 81.1 | 82.2 | 83.7 | 84.9 | 84.8 | 82.0 | 80.6 | 80.6 |
| 10000 | | 70.7 | 75.6 | 75.6 | 76.9 | 78.9 | 80.1 | 81.2 | 83.1 | 84.9 | 83.8 | 80.7 | 79.8 | 80.6 |
| 12500 | | 68.1 | 73.1 | 73.8 | 75.7 | 78.0 | 78.4 | 80.2 | 81.2 | 82.8 | 81.7 | 79.1 | 78.4 | 79.6 |
| 16000 | | 66.7 | 72.5 | 72.4 | 74.6 | 77.1 | 77.5 | 78.7 | 79.6 | 81.7 | 80.2 | 77.6 | 76.6 | 78.7 |
| 20000 | | 64.2 | 69.3 | 70.2 | 71.6 | 75.6 | 74.7 | 76.4 | 76.5 | 79.0 | 76.5 | 73.1 | 72.3 | 72.7 |
| 25000 | | 61.9 | 70.2 | 68.6 | 70.2 | 72.6 | 72.3 | 74.0 | 73.4 | 76.1 | 72.3 | 70.4 | 67.4 | 69.0 |
| 31500 | | 61.0 | 73.1 | 71.8 | 73.3 | 75.3 | 75.0 | 73.7 | 75.2 | 74.4 | 69.5 | 66.2 | 65.8 | 65.2 |
| 40000 | | 57.0 | 67.9 | 69.3 | 69.6 | 70.6 | 72.4 | 72.6 | 72.6 | 71.3 | 66.3 | 62.3 | 59.6 | 60.6 |
| 50000 | | 48.7 | 57.4 | 59.5 | 59.7 | 61.3 | 62.1 | 62.6 | 63.4 | 62.0 | 58.6 | 54.9 | 51.1 | 52.4 |
| 63000 | | 43.0 | 50.1 | 53.6 | 52.9 | 55.2 | 55.3 | 55.5 | 53.7 | 53.1 | 49.8 | 46.0 | 41.4 | 45.6 |
| 80000 | | 38.3 | 44.8 | 49.9 | 47.4 | 52.5 | 52.9 | 52.3 | 46.9 | 47.9 | 44.5 | 40.3 | 33.8 | 43.7 |
| OVERALL MEASURED | | 87.3 | 90.2 | 91.0 | 91.7 | 93.2 | 94.4 | 95.4 | 97.4 | 99.0 | 100.6 | 102.1 | 103.0 | 103.2 |
| OVERALL CALCULATED | | 100.0 | 102.9 | 104.2 | 104.2 | 105.5 | 106.8 | 107.5 | 109.9 | 111.4 | 112.3 | 112.1 | 111.3 | 110.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS
CONFIGURATION 1 TEST POINT 760 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE
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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| ROG. NO. | NO EGA | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PROC. DATE - MONTH 8 DAY 26 HR- 18.5 | | | | | | | | |
|----------|--------|-------|---|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| 63 | 73.0 | 63 | 71.9 | 74.7 | 75.9 | 75.5 | 77.1 | 78.4 | 80.6 | 81.7 | 83.4 | 86.7 | 91.4 | 94.1 | 96.2 | 140.2 |
| 80 | 74.5 | 80 | 76.3 | 76.0 | 78.1 | 79.9 | 80.3 | 81.2 | 83.3 | 85.3 | 88.6 | 92.5 | 96.5 | 97.8 | 141.9 | |
| 100 | 75.9 | 100 | 76.3 | 78.3 | 78.9 | 79.9 | 81.3 | 81.9 | 84.1 | 86.5 | 90.4 | 94.1 | 96.0 | 96.8 | 142.2 | |
| 125 | 76.5 | 125 | 78.0 | 79.0 | 80.3 | 81.4 | 83.2 | 84.4 | 86.5 | 89.0 | 91.1 | 93.5 | 95.2 | 93.5 | 142.0 | |
| 166 | 77.2 | 166 | 79.2 | 79.8 | 81.3 | 82.6 | 84.0 | 85.4 | 87.3 | 89.8 | 91.8 | 94.5 | 94.0 | 91.7 | 141.9 | |
| 200 | 77.8 | 200 | 79.6 | 80.3 | 81.4 | 83.0 | 84.8 | 85.5 | 87.9 | 89.3 | 91.9 | 93.6 | 91.8 | 89.6 | 142.1 | |
| 250 | 78.1 | 250 | 79.4 | 81.2 | 81.7 | 82.6 | 84.4 | 85.3 | 88.2 | 89.7 | 91.5 | 92.5 | 90.9 | 87.7 | 141.5 | |
| 315 | 78.0 | 315 | 80.0 | 80.5 | 81.6 | 82.9 | 85.3 | 85.4 | 87.1 | 89.3 | 91.6 | 91.6 | 89.2 | 86.3 | 141.0 | |
| 400 | 78.0 | 400 | 80.1 | 81.1 | 83.2 | 84.3 | 86.2 | 87.9 | 89.1 | 90.9 | 89.9 | 87.0 | 84.1 | 84.1 | 140.1 | |
| 500 | 78.2 | 500 | 79.9 | 81.5 | 81.5 | 82.8 | 83.9 | 85.3 | 87.2 | 88.7 | 89.3 | 88.5 | 85.9 | 83.2 | 139.3 | |
| 630 | 77.9 | 630 | 81.2 | 83.0 | 82.0 | 83.1 | 84.5 | 85.3 | 87.7 | 89.0 | 89.3 | 87.5 | 85.2 | 82.5 | 139.4 | |
| 800 | 77.2 | 800 | 81.0 | 81.1 | 82.4 | 83.0 | 84.4 | 87.3 | 88.1 | 88.7 | 88.7 | 85.8 | 83.8 | 81.0 | 138.5 | |
| 1000 | 76.4 | 1000 | 79.4 | 81.2 | 81.8 | 83.4 | 84.2 | 86.5 | 88.2 | 87.3 | 85.2 | 83.2 | 81.2 | 81.2 | 138.1 | |
| 1250 | 75.5 | 1250 | 79.9 | 80.4 | 82.5 | 83.9 | 84.2 | 85.9 | 87.7 | 86.8 | 84.7 | 83.6 | 83.1 | 83.1 | 137.9 | |
| 1600 | 74.0 | 1600 | 77.8 | 78.4 | 79.9 | 82.0 | 83.3 | 84.5 | 85.9 | 87.1 | 87.0 | 84.2 | 82.8 | 82.8 | 137.6 | |
| 2000 | 73.1 | 2000 | 78.0 | 78.1 | 79.3 | 81.4 | 82.5 | 83.7 | 85.6 | 87.4 | 86.3 | 83.2 | 82.3 | 83.0 | 137.3 | |
| 2500 | 70.9 | 2500 | 75.9 | 76.5 | 78.5 | 80.8 | 81.2 | 83.0 | 84.0 | 85.5 | 84.5 | 81.9 | 81.2 | 82.4 | 136.1 | |
| 3150 | 70.1 | 3150 | 75.8 | 75.8 | 78.0 | 80.5 | 80.8 | 82.1 | 83.0 | 85.1 | 83.6 | 80.9 | 79.9 | 82.1 | 135.6 | |
| 4000 | 68.3 | 4000 | 73.4 | 74.3 | 75.6 | 79.6 | 78.7 | 80.5 | 80.6 | 83.0 | 80.6 | 77.2 | 76.4 | 76.7 | 135.7 | |
| 5000 | 67.2 | 5000 | 75.5 | 74.0 | 75.5 | 77.9 | 77.7 | 79.3 | 78.7 | 81.5 | 77.7 | 75.7 | 72.7 | 74.3 | 132.4 | |
| 6300 | 67.9 | 6300 | 80.0 | 78.8 | 80.2 | 82.2 | 81.9 | 80.6 | 82.2 | 81.3 | 76.4 | 73.1 | 72.7 | 72.2 | 135.5 | |
| 8000 | 66.2 | 8000 | 77.1 | 78.6 | 78.8 | 79.9 | 81.6 | 81.9 | 81.9 | 83.6 | 75.6 | 71.6 | 68.9 | 69.9 | 135.7 | |
| 10000 | 61.0 | 10000 | 69.7 | 71.8 | 72.0 | 73.6 | 74.4 | 74.9 | 75.7 | 74.3 | 70.9 | 67.2 | 63.4 | 64.7 | 130.3 | |
| 12500 | 59.8 | 12500 | 66.9 | 70.3 | 69.7 | 71.9 | 72.1 | 72.2 | 70.5 | 69.9 | 66.6 | 62.8 | 58.2 | 62.4 | 129.1 | |
| 16000 | 62.0 | 16000 | 67.9 | 73.0 | 70.5 | 75.7 | 76.0 | 75.4 | 70.0 | 71.0 | 67.6 | 63.6 | 56.9 | 66.8 | 134.7 | |
| PNDB | 98.0 | PNDB | 103.5 | 103.6 | 104.6 | 106.6 | 107.4 | 108.4 | 109.8 | 111.4 | 110.9 | 109.6 | 108.8 | 108.9 | 153.2 | |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 760 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | 50 | 43.7 | 48.1 | 50.4 | 50.7 | 52.7 | 54.2 | 56.2 | 56.9 | 57.9 | 60.1 | 63.3 | 63.7 | 62.3 |
| | 63 | 44.7 | 49.6 | 50.5 | 53.2 | 55.5 | 56.0 | 58.5 | 59.7 | 61.9 | 64.3 | 66.0 | 63.7 | 62.3 |
| | 80 | 46.2 | 49.6 | 52.7 | 53.9 | 55.5 | 57.0 | 57.5 | 59.2 | 60.9 | 63.6 | 65.7 | 65.4 | 62.6 |
| | 100 | 47.4 | 49.6 | 52.7 | 53.9 | 56.2 | 57.5 | 58.7 | 60.4 | 61.4 | 64.1 | 65.7 | 64.8 | 61.0 |
| | 125 | 47.9 | 51.0 | 53.2 | 55.2 | 56.7 | 58.7 | 61.5 | 63.2 | 64.1 | 64.9 | 64.3 | 58.8 | 56.8 |
| | 160 | 48.5 | 52.2 | 53.8 | 56.1 | 57.9 | 59.4 | 62.6 | 62.1 | 63.8 | 64.7 | 65.8 | 62.8 | 56.8 |
| | 200 | 48.8 | 52.3 | 54.2 | 56.1 | 58.1 | 60.1 | 60.6 | 62.6 | 63.2 | 64.6 | 64.7 | 60.3 | 54.2 |
| | 250 | 48.9 | 51.9 | 54.9 | 56.2 | 57.5 | 59.5 | 60.3 | 62.7 | 63.4 | 64.0 | 63.2 | 59.1 | 51.8 |
| | 315 | 48.4 | 52.3 | 54.0 | 55.9 | 57.7 | 60.2 | 61.4 | 62.8 | 63.9 | 62.0 | 57.0 | 49.8 | 46.7 |
| | 400 | 48.0 | 52.0 | 54.2 | 55.1 | 57.7 | 58.9 | 60.7 | 61.9 | 62.2 | 62.8 | 59.9 | 54.3 | 46.7 |
| | 500 | 47.6 | 51.4 | 54.2 | 55.1 | 57.0 | 58.2 | 59.5 | 60.9 | 61.5 | 60.7 | 58.0 | 52.4 | 44.8 |
| | 630 | 46.7 | 52.1 | 55.2 | 55.2 | 56.8 | 58.3 | 59.0 | 60.9 | 61.2 | 60.2 | 56.3 | 50.8 | 42.8 |
| | 800 | 45.1 | 51.1 | 52.7 | 53.6 | 55.5 | 56.3 | 57.5 | 59.9 | 59.7 | 58.8 | 53.7 | 48.2 | 39.6 |
| | 1000 | 43.2 | 48.6 | 52.0 | 53.1 | 54.2 | 56.7 | 58.3 | 59.0 | 56.5 | 52.1 | 46.2 | 37.7 | 30.0 |
| | 1250 | 41.0 | 46.9 | 49.7 | 51.3 | 54.0 | 55.6 | 55.8 | 56.8 | 57.5 | 54.9 | 50.2 | 44.9 | 37.0 |
| | 1600 | 37.5 | 44.3 | 46.8 | 49.5 | 52.3 | 53.9 | 54.8 | 55.5 | 55.5 | 53.5 | 47.7 | 41.6 | 33.0 |
| | 2000 | 34.3 | 42.6 | 44.8 | 47.4 | 50.2 | 51.6 | 52.5 | 53.7 | 54.1 | 50.8 | 44.4 | 38.1 | 28.8 |
| | 2500 | 28.7 | 37.7 | 40.8 | 44.3 | 47.5 | 48.1 | 49.7 | 49.8 | 49.8 | 46.3 | 39.7 | 32.6 | 21.7 |
| | 3150 | 22.5 | 33.1 | 36.1 | 40.2 | 43.8 | 44.4 | 45.3 | 45.2 | 45.4 | 40.8 | 33.4 | 24.4 | 11.1 |
| | 4000 | 12.7 | 23.9 | 28.7 | 32.4 | 37.7 | 37.2 | 38.6 | 37.4 | 37.4 | 31.1 | 21.6 | 10.3 | 0.6 |
| | 5000 | 6.9 | 22.2 | 24.9 | 29.1 | 33.1 | 33.3 | 34.5 | 32.4 | 32.5 | 24.3 | 15.4 | 0.6 | |
| | 6300 | 15.2 | 19.7 | 24.6 | 28.5 | 28.8 | 27.0 | 26.6 | 22.2 | 11.6 | | | | |
| | 8000 | 4.1 | 9.1 | 12.7 | 15.3 | 14.7 | 12.2 | 6.1 | | | | | | |
| | 10000 | | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 58.8 | 62.8 | 65.1 | 66.5 | 68.4 | 70.0 | 70.9 | 72.6 | 73.5 | 74.3 | 74.5 | 73.1 | 69.5 |
| P-NDB | | 51.3 | 67.1 | 70.0 | 71.5 | 74.0 | 75.5 | 76.4 | 77.7 | 78.2 | 77.8 | 75.4 | 71.1 | 64.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 760 ACQUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--|--------|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 100 | 630 | 96.4 | 76.4 | 84.7 | 79.7 | 82.3 | 83.7 | 83.8 | 84.5 | 85.7 | 86.5 | 86.9 | 88.9 | 129.2 |
| 125 | 60 | 96.8 | 75.1 | 79.9 | 78.9 | 81.2 | 82.6 | 84.5 | 84.7 | 86.1 | 84.2 | 82.1 | 90.1 | 129.1 |
| 160 | 60 | 99.4 | 75.4 | 77.2 | 78.0 | 78.8 | 79.9 | 81.0 | 81.0 | 83.2 | 84.7 | 87.2 | 90.1 | 130.6 |
| 200 | 60 | 103.5 | 77.5 | 78.0 | 77.8 | 79.9 | 80.8 | 81.7 | 83.1 | 85.8 | 87.6 | 88.6 | 92.8 | 134.3 |
| 250 | 60 | 104.6 | 76.3 | 80.1 | 79.4 | 79.0 | 81.1 | 83.0 | 85.4 | 87.1 | 88.7 | 90.4 | 96.3 | 135.5 |
| 315 | 60 | 106.2 | 78.4 | 82.2 | 79.0 | 82.6 | 84.7 | 85.1 | 85.7 | 88.2 | 91.0 | 91.7 | 97.1 | 137.1 |
| 400 | 60 | 106.2 | 80.0 | 81.5 | 81.8 | 82.3 | 83.7 | 85.6 | 86.5 | 89.2 | 92.0 | 94.2 | 99.7 | 137.4 |
| 500 | 60 | 105.5 | 80.5 | 81.8 | 80.8 | 82.9 | 84.5 | 86.2 | 87.1 | 90.0 | 93.1 | 95.8 | 100.0 | 137.1 |
| 630 | 60 | 104.1 | 82.1 | 83.1 | 82.2 | 84.5 | 85.6 | 87.5 | 88.7 | 90.9 | 94.0 | 96.7 | 99.6 | 136.4 |
| 800 | 60 | 102.4 | 83.2 | 84.7 | 83.4 | 84.8 | 87.2 | 88.5 | 90.2 | 92.4 | 95.5 | 97.7 | 100.4 | 136.0 |
| 1000 | 60 | 101.0 | 84.2 | 85.7 | 84.8 | 85.9 | 87.5 | 88.9 | 90.8 | 93.7 | 95.6 | 97.8 | 99.7 | 135.5 |
| 1250 | 60 | 101.3 | 84.1 | 85.1 | 85.4 | 86.0 | 87.3 | 89.5 | 90.6 | 93.8 | 96.6 | 97.4 | 98.5 | 135.6 |
| 1600 | 60 | 101.9 | 85.2 | 87.4 | 85.7 | 86.6 | 88.2 | 90.3 | 91.5 | 93.4 | 96.5 | 97.7 | 98.1 | 136.0 |
| 2000 | 60 | 101.2 | 85.5 | 87.7 | 87.0 | 86.8 | 88.5 | 89.6 | 91.5 | 94.2 | 96.1 | 96.8 | 96.7 | 135.6 |
| 2500 | 60 | 101.3 | 85.8 | 88.3 | 87.4 | 87.2 | 87.6 | 89.2 | 90.6 | 93.6 | 96.9 | 96.1 | 94.8 | 135.5 |
| 3150 | 60 | 102.2 | 86.0 | 88.3 | 86.6 | 86.4 | 88.3 | 88.9 | 90.8 | 94.3 | 96.9 | 95.6 | 94.0 | 135.9 |
| 4000 | 60 | 101.8 | 85.1 | 86.6 | 85.1 | 86.5 | 87.1 | 89.0 | 90.4 | 93.6 | 95.7 | 94.6 | 91.8 | 135.3 |
| 5000 | 60 | 102.9 | 86.5 | 87.5 | 84.8 | 86.3 | 87.5 | 88.8 | 89.8 | 93.7 | 95.6 | 93.0 | 90.9 | 135.8 |
| 6300 | 60 | 103.7 | 86.8 | 87.8 | 85.3 | 86.4 | 87.5 | 89.4 | 90.6 | 92.6 | 95.4 | 92.4 | 89.8 | 136.4 |
| 8000 | 60 | 103.0 | 86.8 | 87.7 | 84.7 | 86.7 | 88.1 | 89.2 | 90.7 | 92.4 | 94.3 | 92.2 | 88.8 | 136.1 |
| 10000 | 60 | 102.9 | 84.5 | 87.6 | 85.1 | 86.7 | 88.5 | 88.7 | 89.4 | 91.9 | 93.8 | 91.0 | 87.6 | 136.2 |
| 12500 | 60 | 101.4 | 83.0 | 85.7 | 83.7 | 85.2 | 87.3 | 87.5 | 89.2 | 89.6 | 90.9 | 89.1 | 85.9 | 135.1 |
| 16000 | 60 | 100.2 | 81.4 | 84.7 | 82.3 | 84.1 | 86.2 | 86.6 | 89.1 | 88.2 | 90.4 | 86.8 | 84.3 | 134.7 |
| 20000 | 60 | 97.8 | 78.5 | 81.6 | 80.3 | 81.8 | 84.9 | 84.8 | 87.5 | 86.5 | 88.0 | 83.0 | 79.8 | 133.5 |
| 25000 | 60 | 94.9 | 76.5 | 80.6 | 76.8 | 79.6 | 81.6 | 82.0 | 83.1 | 83.9 | 85.8 | 79.2 | 78.1 | 132.1 |
| 31500 | 60 | 91.5 | 74.8 | 78.9 | 76.9 | 79.1 | 81.5 | 81.1 | 83.4 | 82.0 | 82.2 | 75.8 | 73.2 | 131.8 |
| 40000 | 60 | 87.1 | 70.4 | 76.5 | 75.0 | 77.5 | 79.0 | 79.8 | 81.7 | 80.4 | 80.0 | 72.4 | 68.3 | 132.1 |
| 50000 | 60 | 78.3 | 64.0 | 70.7 | 69.1 | 71.3 | 71.2 | 73.3 | 73.9 | 74.5 | 74.5 | 66.2 | 61.7 | 129.2 |
| 63000 | 60 | 69.9 | 57.0 | 62.4 | 60.8 | 62.8 | 62.7 | 64.8 | 64.6 | 66.0 | 67.2 | 57.6 | 53.0 | 127.1 |
| 80000 | 60 | 62.8 | 48.5 | 55.1 | 53.3 | 54.2 | 54.5 | 57.5 | 58.0 | 58.4 | 60.7 | 49.8 | 43.4 | 129.1 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED 116.5 97.3 99.4 97.7 98.8 100.3 101.6 103.0 105.4 107.7 108.0 109.7 | | | | | | | | | | | | | | |
| PNDB 127.7 109.9 111.9 110.3 111.0 112.5 113.6 115.1 118.1 120.5 120.0 119.9 | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 76/12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 18.5

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | VEHICLE | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | SCALED FROM MODEL DATA | | | INLET IN DEGREES (AND RADIAN) | REL. HUM. | DAY | JENOTS | | | | | | | | | | | | | |
|--------------------|---------|-----|-------|-------|------|------|------|------|------|-------|---------------------------------|-------|-------|------------------------|-------|-------|-------------------------------|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | | | | | 100. | 110. | 120. | | | | | | | | | | |
| 50 | MO EGA | C | 160 | 104.2 | 85.0 | 86.5 | 87.6 | 88.9 | 89.9 | 90.5 | 81.2 | 80.3 | 82.9 | 84.8 | 87.2 | 88.9 | 90.5 | 92.2 | 98.1 | 148.8 | | | | | | | | | | | | | |
| 63 | MO EGA | C | 108.0 | 81.8 | 83.3 | 84.0 | 80.8 | 84.4 | 86.5 | 86.9 | 80.8 | 84.4 | 86.5 | 86.9 | 87.6 | 90.0 | 92.8 | 93.5 | 99.0 | 150.4 | | | | | | | | | | | | | |
| 80 | MO EGA | C | 108.0 | 81.8 | 83.3 | 83.6 | 83.6 | 84.2 | 85.5 | 87.4 | 83.3 | 84.2 | 85.5 | 87.4 | 88.3 | 91.9 | 94.9 | 96.1 | 101.5 | 150.4 | | | | | | | | | | | | | |
| 100 | MO EGA | C | 107.4 | 82.4 | 83.6 | 83.6 | 82.7 | 84.7 | 86.4 | 87.5 | 84.0 | 86.4 | 87.5 | 89.4 | 90.5 | 92.7 | 95.8 | 98.5 | 101.4 | 149.7 | | | | | | | | | | | | | |
| 125 | MO EGA | C | 106.0 | 84.0 | 85.0 | 86.5 | 85.3 | 86.6 | 89.0 | 89.0 | 86.0 | 86.6 | 89.0 | 90.4 | 92.0 | 94.3 | 97.3 | 99.5 | 102.2 | 149.3 | | | | | | | | | | | | | |
| 200 | MO EGA | C | 102.8 | 86.1 | 87.6 | 88.6 | 87.7 | 89.3 | 90.7 | 89.3 | 87.8 | 89.3 | 90.7 | 92.6 | 95.6 | 97.4 | 99.6 | 101.5 | 148.9 | | | | | | | | | | | | | | |
| 315 | MO EGA | C | 103.7 | 87.0 | 89.3 | 89.3 | 87.6 | 88.4 | 90.0 | 92.2 | 88.4 | 90.0 | 92.2 | 93.3 | 95.3 | 98.4 | 99.6 | 100.0 | 149.3 | | | | | | | | | | | | | | |
| 400 | MO EGA | C | 103.0 | 87.3 | 89.6 | 89.6 | 88.7 | 89.3 | 91.5 | 93.4 | 89.3 | 91.5 | 93.4 | 96.1 | 97.9 | 98.6 | 98.6 | 98.5 | 148.9 | | | | | | | | | | | | | | |
| 500 | MO EGA | C | 103.2 | 87.7 | 90.2 | 89.2 | 89.2 | 89.2 | 89.5 | 91.1 | 89.5 | 91.1 | 92.5 | 95.5 | 98.8 | 98.0 | 96.7 | 96.7 | 148.8 | | | | | | | | | | | | | | |
| 630 | MO EGA | C | 104.2 | 88.0 | 90.2 | 88.5 | 88.5 | 88.3 | 90.2 | 90.8 | 90.2 | 90.8 | 92.8 | 96.2 | 98.8 | 97.5 | 95.9 | 95.9 | 149.2 | | | | | | | | | | | | | | |
| 800 | MO EGA | C | 103.7 | 87.0 | 88.6 | 87.1 | 88.4 | 89.0 | 89.0 | 90.9 | 89.0 | 90.9 | 92.3 | 95.6 | 97.7 | 96.6 | 93.8 | 93.8 | 149.1 | | | | | | | | | | | | | | |
| 1000 | MO EGA | C | 104.9 | 88.4 | 89.5 | 88.7 | 88.3 | 89.4 | 90.8 | 91.7 | 89.4 | 90.8 | 91.7 | 95.7 | 97.6 | 95.0 | 92.9 | 92.9 | 149.7 | | | | | | | | | | | | | | |
| 1250 | MO EGA | C | 105.8 | 88.9 | 89.9 | 87.4 | 88.5 | 89.6 | 91.5 | 92.7 | 89.6 | 91.5 | 92.7 | 94.6 | 97.5 | 94.4 | 91.8 | 91.8 | 149.4 | | | | | | | | | | | | | | |
| 1600 | MO EGA | C | 105.2 | 89.1 | 89.9 | 86.9 | 89.0 | 89.0 | 90.3 | 91.5 | 89.0 | 90.3 | 91.5 | 92.9 | 94.6 | 96.5 | 94.4 | 91.1 | 149.5 | | | | | | | | | | | | | | |
| 2000 | MO EGA | C | 105.4 | 87.0 | 90.1 | 87.6 | 89.1 | 89.1 | 91.0 | 91.8 | 91.0 | 91.8 | 94.3 | 96.2 | 93.4 | 90.0 | 90.0 | 90.0 | 148.4 | | | | | | | | | | | | | | |
| 2500 | MO EGA | C | 104.2 | 85.8 | 88.5 | 86.5 | 88.0 | 88.0 | 90.1 | 90.3 | 90.1 | 90.3 | 92.0 | 92.4 | 93.7 | 91.9 | 88.7 | 88.7 | 148.1 | | | | | | | | | | | | | | |
| 3150 | MO EGA | C | 103.6 | 84.8 | 88.0 | 85.7 | 87.5 | 87.5 | 89.6 | 90.0 | 89.6 | 90.0 | 92.4 | 91.6 | 93.8 | 90.1 | 87.6 | 87.6 | 146.8 | | | | | | | | | | | | | | |
| 4000 | MO EGA | C | 101.9 | 82.6 | 85.6 | 84.3 | 85.8 | 85.8 | 88.9 | 88.8 | 87.5 | 89.6 | 90.5 | 92.1 | 87.1 | 83.8 | 83.8 | 83.8 | 145.4 | | | | | | | | | | | | | | |
| 5000 | MO EGA | C | 100.3 | 81.9 | 85.9 | 82.2 | 84.9 | 84.9 | 87.0 | 87.3 | 84.9 | 87.0 | 88.4 | 89.3 | 91.1 | 84.6 | 83.4 | 83.4 | 145.1 | | | | | | | | | | | | | | |
| 6300 | MO EGA | C | 98.4 | 81.8 | 85.8 | 83.9 | 86.3 | 86.3 | 88.4 | 88.4 | 86.3 | 88.4 | 89.0 | 89.0 | 89.1 | 82.7 | 80.1 | 80.1 | 145.4 | | | | | | | | | | | | | | |
| 8000 | MO EGA | C | 96.3 | 79.7 | 85.7 | 84.2 | 86.8 | 86.8 | 88.3 | 89.0 | 86.8 | 88.3 | 89.0 | 91.0 | 89.7 | 89.2 | 81.7 | 77.5 | 77.5 | 142.5 | | | | | | | | | | | | | |
| 10000 | MO EGA | C | 90.7 | 76.3 | 83.0 | 81.4 | 83.6 | 83.6 | 85.5 | 85.6 | 83.6 | 85.5 | 86.2 | 86.8 | 86.8 | 78.5 | 74.0 | 74.0 | 142.5 | | | | | | | | | | | | | | |
| 12500 | MO EGA | C | 86.7 | 73.7 | 79.2 | 77.6 | 79.6 | 79.6 | 79.5 | 81.6 | 81.3 | 82.7 | 84.0 | 84.0 | 84.0 | 69.8 | 66.5 | 66.5 | 142.4 | | | | | | | | | | | | | | |
| 16000 | MO EGA | C | 85.9 | 71.7 | 78.2 | 76.4 | 77.3 | 77.3 | 77.6 | 80.6 | 81.2 | 81.5 | 83.8 | 83.8 | 72.9 | 66.5 | 66.5 | 66.5 | 162.6 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | 118.3 | 99.4 | 101.6 | 99.9 | 101.1 | 102.6 | 103.8 | 105.3 | 107.4 | 109.8 | 111.3 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | 117.1 | | | |
| PNDB | | | | | | | | | | | 129.0 | 110.7 | 113.5 | 111.5 | 113.0 | 114.9 | 115.6 | 117.5 | 118.2 | 120.3 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 761 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

+ 80° spectra missing ; see repeat data point

| NO EGA
SIDELINE 24CO. FT.
(731.53 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | |
|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 180. | 200. |
| 50 | 78.2 | 51.6 | 56.4 | 56.4 | 56.6 | 58.5 | 50.0 | 61.7 | 62.3 | 62.3 | 61.8 | 64.2 | | | |
| 63 | 79.7 | 53.6 | 58.5 | 56.0 | 60.1 | 62.1 | 62.0 | 63.4 | 64.6 | 63.0 | 65.0 | | | | |
| 80 | 79.7 | 55.1 | 57.7 | 58.7 | 59.8 | 61.1 | 62.5 | 62.7 | 64.3 | 65.5 | 65.4 | 67.3 | | | |
| 100 | 78.9 | 55.6 | 57.9 | 57.9 | 60.4 | 61.8 | 63.0 | 63.2 | 65.1 | 66.5 | 66.9 | 67.5 | | | |
| 125 | 77.4 | 57.0 | 59.2 | 59.0 | 61.9 | 62.9 | 64.3 | 64.7 | 65.8 | 67.2 | 67.6 | 66.8 | | | |
| 160 | 75.5 | 57.9 | 60.6 | 60.1 | 62.0 | 63.2 | 64.5 | 65.4 | 66.5 | 68.3 | 68.2 | 66.2 | | | |
| 200 | 73.8 | 58.8 | 61.5 | 61.3 | 63.0 | 64.5 | 65.4 | 66.5 | 68.2 | 69.3 | 67.4 | 64.5 | | | |
| 250 | 73.9 | 58.4 | 60.7 | 61.7 | 62.9 | 64.1 | 65.3 | 66.2 | 68.2 | 69.3 | 67.4 | 64.5 | | | |
| 315 | 74.2 | 59.3 | 62.8 | 61.9 | 63.3 | 64.8 | 66.4 | 66.8 | 67.5 | 68.8 | 67.4 | 63.5 | | | |
| 400 | 73.1 | 59.2 | 62.7 | 62.9 | 63.3 | 64.8 | 65.5 | 66.5 | 68.0 | 67.9 | 65.8 | 61.2 | | | |
| 500 | 72.6 | 59.1 | 63.0 | 62.9 | 63.4 | 63.6 | 64.7 | 65.3 | 66.9 | 68.3 | 64.5 | 58.3 | | | |
| 630 | 73.0 | 58.8 | 62.5 | 61.7 | 62.2 | 63.9 | 64.0 | 65.0 | 67.1 | 67.6 | 63.1 | 56.2 | | | |
| 800 | 71.6 | 57.1 | 60.2 | 59.7 | 61.7 | 62.1 | 63.5 | 63.9 | 65.7 | 65.5 | 61.1 | 52.3 | | | |
| 1000 | 71.7 | 57.6 | 60.3 | 58.6 | 60.9 | 61.8 | 62.7 | 62.5 | 64.9 | 64.4 | 58.1 | 49.4 | | | |
| 1250 | 71.2 | 56.9 | 59.7 | 58.3 | 60.2 | 61.2 | 62.4 | 62.5 | 62.7 | 63.0 | 55.7 | 45.7 | | | |
| 1600 | 68.7 | 55.5 | 58.3 | 56.5 | 59.5 | 60.6 | 61.1 | 61.3 | 61.1 | 60.0 | 53.2 | 41.3 | | | |
| 2000 | 66.6 | 51.5 | 56.8 | 55.7 | 58.2 | 59.8 | 59.2 | 58.5 | 58.9 | 57.5 | 49.2 | 35.8 | | | |
| 2500 | 62.1 | 47.6 | 52.8 | 52.3 | 55.0 | 56.8 | 56.1 | 56.2 | 54.2 | 51.6 | 43.3 | 28.0 | | | |
| TAPE X07610 | 56.1 | 42.0 | 48.3 | 47.9 | 51.1 | 52.8 | 52.2 | 52.8 | 48.8 | 46.2 | 34.6 | 16.6 | | | |
| FAN TIP SPEED FT/SEC | 46.2 | 33.1 | 40.0 | 41.1 | 44.4 | 47.0 | 45.6 | 46.0 | 41.1 | 36.5 | 21.1 | | | | |
| 5000 | 40.0 | 28.5 | 36.9 | 35.8 | 40.5 | 42.1 | 40.9 | 39.4 | 35.9 | 30.8 | 12.5 | | | | |
| 6300 | 24.4 | 17.0 | 26.8 | 28.3 | 33.0 | 34.8 | 32.4 | 31.3 | 24.2 | 15.1 | | | | | |
| 8000 | 1.2 | 11.2 | 14.5 | 20.5 | 21.2 | 19.3 | 16.5 | 7.3 | | | | | | | |
| 10000 | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 87.9 | 69.6 | 72.8 | 72.3 | 73.9 | 75.2 | 76.2 | 76.7 | 78.1 | 78.9 | 77.3 | 75.9 | | | |
| PN08 | 91.3 | 75.6 | 79.3 | 78.6 | 80.9 | 82.4 | 82.5 | 82.8 | 83.4 | 83.5 | 80.0 | 75.5 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 76/ ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PREC. DATE - MONTH 5 DAY 26 HR. 10.1

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

ANGLES FROM INLET IN DEGREES (AND RADIIAS)

| RDS. NO. | NO. EGA | RADIOAL 40. FT. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. | D. | PWL |
|--------------------|---------|-----------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-----|
| | | | | | | | | | | | | | | | | | | |
| 100 | 74.1 | 93.9 | 31.4 | 82.5 | 84.0 | 84.2 | 84.5 | 84.0 | 85.4 | 86.7 | 91.9 | 91.4 | 93.9 | 128.8 | | | | |
| 125 | 73.1 | 78.6 | 80.1 | 81.7 | 83.5 | 84.6 | 85.2 | 85.2 | 85.6 | 83.4 | 92.4 | 93.6 | 94.6 | 129.1 | | | | |
| 150 | 73.9 | 76.4 | 79.9 | 80.0 | 89.3 | 90.9 | 91.5 | 82.0 | 83.9 | 89.0 | 93.4 | 94.6 | 97.4 | 130.1 | | | | |
| 200 | 75.3 | 77.0 | 78.5 | 80.1 | 80.2 | 81.5 | 82.9 | 84.1 | 87.3 | 91.4 | 95.6 | 99.5 | 101.5 | 133.6 | | | | |
| 250 | 75.8 | 79.1 | 80.6 | 80.1 | 81.7 | 83.1 | 85.2 | 85.6 | 87.2 | 93.2 | 99.9 | 101.3 | 103.3 | 135.8 | | | | |
| 315 | 76.7 | 81.4 | 80.4 | 82.2 | 84.6 | 85.4 | 86.3 | 87.2 | 90.2 | 95.5 | 101.7 | 104.1 | 105.4 | 138.1 | | | | |
| 400 | 78.7 | 81.0 | 83.0 | 82.5 | 84.3 | 85.7 | 86.8 | 88.5 | 91.2 | 97.8 | 104.2 | 105.7 | 106.0 | 139.6 | | | | |
| 500 | 79.0 | 81.0 | 82.8 | 83.1 | 84.7 | 86.5 | 87.7 | 89.3 | 92.8 | 99.1 | 104.8 | 107.0 | 106.3 | 140.5 | | | | |
| BAR 29.4 16 | 80.4 | 82.6 | 83.6 | 84.9 | 86.3 | 87.4 | 89.0 | 90.2 | 94.1 | 99.7 | 105.2 | 107.6 | 106.6 | 141.1 | | | | |
| (99279. N/M2) | 80.9 | 83.7 | 84.9 | 85.9 | 87.3 | 89.2 | 90.3 | 91.9 | 95.2 | 100.0 | 105.2 | 106.6 | 105.4 | 140.6 | | | | |
| TAMB 72. DEG F | 1000 | 64.0 | 85.7 | 86.5 | 87.3 | 88.1 | 89.5 | 90.9 | 92.3 | 95.7 | 100.1 | 103.5 | 103.2 | 104.0 | 139.1 | | | |
| (295. DEG K) | 1250 | 82.8 | 85.1 | 87.3 | 86.9 | 88.2 | 89.8 | 90.7 | 92.4 | 96.3 | 99.7 | 101.9 | 102.5 | 101.3 | 137.3 | | | |
| TWET 65. DEG F | 1600 | 83.6 | 86.4 | 86.7 | 87.2 | 88.8 | 91.4 | 91.6 | 93.0 | 96.4 | 99.3 | 100.7 | 99.9 | 99.7 | 138.2 | | | |
| (291. DEG K) | 2000 | 83.7 | 85.7 | 87.7 | 87.0 | 89.4 | 90.5 | 91.9 | 93.5 | 96.0 | 98.6 | 99.0 | 97.7 | 96.0 | 136.2 | | | |
| HACT13.19 5M/M3 | 2500 | 91.8 | 94.6 | 97.1 | 92.6 | 92.7 | 91.8 | 92.7 | 96.1 | 98.3 | 98.9 | 99.1 | 96.8 | 96.1 | 138.2 | | | |
| (.01319 CG/M3) | 3150 | 86.0 | 87.3 | 90.1 | 87.3 | 90.4 | 91.7 | 92.8 | 96.1 | 97.9 | 96.1 | 93.8 | 91.3 | 135.4 | | | | |
| FREQ. SHIFT | 4000 | 82.5 | 84.3 | 85.9 | 86.4 | 88.0 | 88.8 | 90.7 | 92.6 | 94.9 | 96.2 | 94.1 | 91.3 | 89.1 | 133.8 | | | |
| JET | 5000 | 81.9 | 84.2 | 85.5 | 87.0 | 87.3 | 89.5 | 90.1 | 92.3 | 94.5 | 94.1 | 92.8 | 90.9 | 89.2 | 133.1 | | | |
| DIAMETER RATIO | 6300 | 81.2 | 83.8 | 85.3 | 85.8 | 87.9 | 89.3 | 90.7 | 91.6 | 94.1 | 93.4 | 91.9 | 92.5 | 91.3 | 133.0 | | | |
| DF/DM 1.00 | 8000 | 80.3 | 82.3 | 82.9 | 84.9 | 87.0 | 88.8 | 91.0 | 90.7 | 93.2 | 93.0 | 91.0 | 91.6 | 91.3 | 132.6 | | | |
| | 10000 | 78.2 | 82.0 | 82.1 | 83.6 | 86.4 | 87.3 | 89.4 | 89.6 | 92.4 | 92.0 | 89.9 | 91.5 | 91.3 | 132.0 | | | |
| | 12500 | 76.1 | 80.1 | 80.7 | 82.7 | 84.7 | 85.6 | 88.2 | 87.8 | 90.2 | 89.4 | 87.8 | 90.1 | 90.3 | 133.7 | | | |
| | 16000 | 75.1 | 78.7 | 79.4 | 81.5 | 83.6 | 84.2 | 87.8 | 86.1 | 89.1 | 87.6 | 86.0 | 89.2 | 89.2 | 130.5 | | | |
| | 20000 | 72.6 | 76.2 | 77.1 | 78.2 | 81.5 | 83.2 | 83.0 | 85.6 | 83.6 | 81.7 | 82.9 | 83.6 | 127.8 | | | | |
| | 31500 | 70.0 | 74.5 | 74.4 | 76.2 | 77.9 | 78.2 | 80.2 | 79.6 | 83.0 | 79.4 | 78.9 | 77.5 | 80.3 | 125.7 | | | |
| | 40000 | 68.5 | 73.4 | 74.1 | 75.3 | 76.8 | 76.5 | 79.4 | 77.3 | 78.6 | 75.5 | 74.7 | 76.3 | 76.3 | 125.6 | | | |
| | 50000 | 64.0 | 70.1 | 72.8 | 74.0 | 74.1 | 73.9 | 76.8 | 73.0 | 74.0 | 71.7 | 69.5 | 70.6 | 70.6 | 125.6 | | | |
| | 63000 | 58.7 | 66.1 | 69.4 | 71.1 | 70.5 | 72.8 | 73.6 | 70.6 | 69.2 | 64.2 | 62.3 | 62.3 | 62.3 | 126.5 | | | |
| | 80000 | 53.2 | 60.0 | 64.2 | 64.4 | 62.6 | 65.3 | 67.6 | 65.1 | 64.7 | 58.9 | 56.4 | 55.3 | 56.3 | 126.6 | | | |
| | | 47.9 | 52.6 | 57.6 | 56.4 | 54.3 | 55.7 | 63.6 | 53.1 | 54.8 | 51.9 | 50.4 | 52.0 | 53.9 | 128.9 | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 96.2 | 99.0 | 100.6 | 99.4 | 100.8 | 101.8 | 103.2 | 104.5 | 107.3 | 110.2 | 113.7 | 115.0 | 114.9 | 150.4 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 76e ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

| NO EGA | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | D. (C.) | D. (C.) | D. (C.) | D. (C.) | PWL | | | | | |
|--------------------|--------------------------------------|-------|-------|-------|-------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|
| | FREQ. | 40. | 50. | 60. | 70. | | | | | | 80. | 90. | 100. | 110. | 120. |
| RDG. NO. | 53 | 77.6 | 80.9 | 82.4 | 82.0 | 83.6 | 84.9 | 87.1 | 87.5 | 89.7 | 95.0 | 101.7 | 103.1 | 105.2 | 149.1 |
| RADIAL 150. FT. | 63 | 78.5 | 83.3 | 82.3 | 84.1 | 86.4 | 87.3 | 88.2 | 89.1 | 92.0 | 97.3 | 103.5 | 106.0 | 107.8 | 151.4 |
| (46. #) | 80 | 80.5 | 82.8 | 84.3 | 84.3 | 86.2 | 87.5 | 88.7 | 90.3 | 93.1 | 99.6 | 106.1 | 107.5 | 107.8 | 153.0 |
| VEHICLE | 100 | 80.9 | 82.9 | 84.6 | 84.9 | 86.5 | 88.4 | 89.5 | 91.2 | 94.6 | 101.0 | 106.7 | 108.8 | 108.1 | 153.8 |
| CELL41 | 125 | 82.2 | 84.5 | 85.5 | 86.8 | 88.1 | 89.2 | 90.9 | 92.0 | 95.0 | 101.6 | 107.0 | 109.4 | 108.5 | 154.4 |
| NC54 | 160 | 83.7 | 85.5 | 86.8 | 87.8 | 89.1 | 91.0 | 92.1 | 93.3 | 97.0 | 101.8 | 107.0 | 109.5 | 107.2 | 154.0 |
| C41 ANECH CH | 200 | 85.3 | 87.6 | 88.3 | 89.1 | 90.0 | 91.3 | 92.7 | 94.1 | 97.6 | 101.9 | 105.4 | 105.0 | 105.8 | 152.4 |
| LOC 06-10-76 | 250 | 84.6 | 86.9 | 89.2 | 88.7 | 90.1 | 91.7 | 92.6 | 94.7 | 99.2 | 101.5 | 103.7 | 104.6 | 103.2 | 151.5 |
| RUN CONF7HIGHFLW | 315 | 85.5 | 88.3 | 88.5 | 89.1 | 90.7 | 93.3 | 93.4 | 94.8 | 98.3 | 101.1 | 102.6 | 101.8 | 101.5 | 150.6 |
| TAPE X07620 | 400 | 85.5 | 87.6 | 89.6 | 88.9 | 91.2 | 92.3 | 93.7 | 95.4 | 97.8 | 100.4 | 100.9 | 99.5 | 97.8 | 149.5 |
| BAR 29.4 HG | 500 | 93.7 | 96.5 | 99.0 | 94.5 | 94.6 | 93.7 | 94.6 | 98.0 | 100.2 | 100.8 | 101.0 | 98.7 | 98.0 | 151.5 |
| (99279. N/M2) | 630 | 87.9 | 91.2 | 92.0 | 89.3 | 92.3 | 92.5 | 93.6 | 94.8 | 98.0 | 99.8 | 98.0 | 95.7 | 93.7 | 148.7 |
| TAMB 72. DEG-F | 800 | 84.5 | 86.3 | 87.8 | 88.3 | 89.9 | 90.8 | 92.7 | 94.6 | 96.8 | 98.2 | 96.1 | 93.3 | 91.0 | 147.1 |
| (295. DEG K) | 1000 | 83.9 | 86.2 | 87.5 | 89.0 | 89.3 | 91.4 | 92.1 | 94.2 | 96.5 | 96.1 | 94.8 | 92.9 | 91.2 | 146.4 |
| TJET (291. DEG K) | 1250 | 83.3 | 85.9 | 87.4 | 87.9 | 90.0 | 91.4 | 92.7 | 93.7 | 96.1 | 95.5 | 93.9 | 94.6 | 93.4 | 146.4 |
| HACT13.19 GM/M3 | 1600 | 92.5 | 84.6 | 85.1 | 87.1 | 89.2 | 91.1 | 93.2 | 92.9 | 95.4 | 95.3 | 93.2 | 93.8 | 93.6 | 145.9 |
| (.01319 KG/M3) | 2000 | 80.6 | 84.5 | 84.6 | 86.1 | 88.9 | 89.7 | 91.9 | 92.1 | 94.8 | 94.5 | 92.4 | 94.0 | 93.7 | 145.3 |
| FREQ. SHIFT | 3150 | 78.5 | 82.0 | 82.7 | 84.9 | 86.9 | 87.5 | 91.2 | 89.4 | 92.5 | 91.0 | 89.3 | 92.6 | 92.5 | 144.3 |
| JET | 4000 | 76.7 | 80.2 | 81.1 | 82.3 | 85.5 | 85.6 | 89.3 | 87.1 | 89.6 | 87.7 | 85.8 | 87.0 | 87.6 | 141.1 |
| DIAMETER RATIO | 5000 | 75.3 | 79.9 | 79.8 | 81.6 | 83.3 | 83.5 | 85.5 | 84.9 | 88.3 | 84.7 | 84.3 | 82.8 | 85.6 | 139.0 |
| DF/DM 4.63 | 6300 | 75.5 | 80.3 | 81.0 | 82.2 | 83.7 | 83.4 | 86.4 | 84.2 | 85.6 | 82.4 | 81.6 | 83.2 | 83.2 | 138.9 |
| OVERALL CALCULATED | 8030 | 73.3 | 79.4 | 82.0 | 83.3 | 83.4 | 83.1 | 86.1 | 82.3 | 83.3 | 81.0 | 78.8 | 79.9 | 79.9 | 138.9 |
| | 10000 | 71.0 | 78.4 | 81.7 | 83.5 | 82.8 | 85.1 | 85.9 | 82.9 | 81.5 | 76.5 | 74.6 | 74.6 | 75.1 | 139.8 |
| | 12300 | 70.3 | 76.8 | 81.0 | 81.1 | 79.4 | 82.0 | 84.4 | 81.9 | 81.5 | 75.7 | 73.2 | 72.1 | 73.1 | 139.9 |
| | 16000 | 71.0 | 75.7 | 80.7 | 79.5 | 77.4 | 78.8 | 86.7 | 76.2 | 77.9 | 75.0 | 73.6 | 75.1 | 77.0 | 142.2 |
| P-DB | 107.6 | 110.7 | 112.3 | 111.6 | 113.4 | 114.2 | 116.6 | 116.4 | 119.0 | 119.5 | 120.1 | 120.5 | 120.5 | 120.5 | 163.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 762 ACOUSTIC RANGE 45.7m(150ft.) ARC
 SIZE FULL-.33m²(513in²)

| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|---|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (C.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)(C.) (C.) (C.) (C.) | 50 | 49.5 | 54.3 | 56.9 | 57.2 | 59.2 | 60.7 | 62.7 | 64.2 | 66.2 | 68.4 | 73.5 | 72.7 |
| NO EGA | 63 | 50.2 | 56.6 | 56.7 | 59.2 | 62.0 | 63.0 | 63.7 | 64.2 | 66.5 | 70.7 | 75.3 | 73.2 |
| SIDELINE 2400. FT. (731.52 M) | 80 | 52.2 | 56.1 | 59.2 | 59.4 | 61.7 | 63.2 | 64.2 | 65.4 | 67.4 | 72.9 | 77.7 | 76.9 |
| NFA (0. RPM) | 100 | 52.4 | 56.1 | 58.9 | 60.0 | 62.0 | 64.0 | 65.0 | 66.2 | 68.9 | 74.1 | 78.2 | 73.7 |
| NFK (0. RAD/SEC) | 125 | 53.6 | 57.5 | 59.7 | 61.7 | 63.5 | 64.7 | 66.2 | 67.0 | 70.2 | 74.6 | 78.4 | 73.8 |
| NFD (0. RAD/SEC) | 160 | 55.0 | 58.4 | 60.8 | 62.6 | 64.4 | 66.4 | 67.4 | 68.6 | 71.1 | 74.7 | 78.3 | 72.3 |
| NFE (7500. RPM) | 200 | 56.8 | 60.3 | 62.3 | 63.8 | 65.1 | 66.6 | 67.8 | 68.8 | 71.5 | 74.7 | 76.4 | 70.5 |
| NFF (785. RAD/SEC) | 250 | 58.4 | 61.5 | 63.2 | 64.9 | 66.2 | 67.5 | 69.2 | 69.2 | 71.9 | 74.0 | 74.5 | 67.3 |
| AIRFLOW RATIO | 315 | 56.0 | 60.5 | 62.0 | 63.4 | 65.4 | 68.2 | 68.2 | 69.4 | 71.0 | 72.3 | 70.9 | 65.0 |
| WF7MM 4.63 | 400 | 55.6 | 59.5 | 62.8 | 62.9 | 65.7 | 67.0 | 68.2 | 69.4 | 71.0 | 72.3 | 70.5 | 60.5 |
| VEHICLE | 500 | 63.1 | 67.9 | 71.7 | 68.1 | 68.7 | 68.0 | 68.7 | 71.6 | 73.0 | 72.3 | 70.5 | 59.6 |
| CONFIG | 630 | 56.7 | 62.1 | 64.3 | 62.4 | 66.0 | 66.3 | 67.3 | 67.9 | 70.3 | 70.7 | 66.8 | 54.0 |
| LOC C41 ANECHO CH | 800 | 52.4 | 56.4 | 59.4 | 60.9 | 63.0 | 64.1 | 65.8 | 67.2 | 68.4 | 68.3 | 64.0 | 49.6 |
| DATE 06-10-76 | 1000 | 50.7 | 55.4 | 58.3 | 60.8 | 61.7 | 64.0 | 64.5 | 66.1 | 67.3 | 65.3 | 61.6 | 47.7 |
| RUN CONF7HIGHFLW | 1250 | 48.7 | 53.9 | 57.2 | 58.8 | 61.5 | 63.1 | 64.3 | 64.6 | 66.0 | 63.6 | 59.4 | 47.3 |
| TAPE X07620 | 1600 | 46.0 | 51.0 | 53.5 | 56.8 | 59.5 | 61.6 | 63.5 | 62.5 | 63.8 | 61.7 | 56.7 | 43.8 |
| FAN TIP SPEED | 2000 | 41.8 | 49.0 | 51.3 | 54.1 | 57.7 | 58.8 | 60.7 | 60.1 | 61.5 | 59.0 | 53.6 | 49.8 |
| FT/SEC | 2500 | 36.7 | 44.6 | 47.8 | 51.3 | 54.2 | 55.4 | 57.7 | 56.4 | 57.3 | 54.0 | 48.4 | 44.3 |
| | 3150 | 31.0 | 39.3 | 43.0 | 47.1 | 50.2 | 51.1 | 54.4 | 51.7 | 52.8 | 48.2 | 41.8 | 37.0 |
| | 4000 | 21.1 | 30.8 | 35.5 | 39.1 | 43.6 | 44.1 | 47.4 | 43.9 | 44.1 | 38.2 | 30.2 | 20.9 |
| | 5000 | 15.0 | 26.5 | 30.8 | 35.2 | 38.4 | 39.1 | 40.7 | 38.6 | 39.3 | 31.4 | 24.0 | 10.7 |
| | 6300 | 1.4 | 15.5 | 22.0 | 26.6 | 30.1 | 30.4 | 32.7 | 28.7 | 26.5 | 17.6 | 7.6 | |
| | 8000 | | 7.5 | 13.6 | 16.2 | 16.8 | 19.0 | 12.5 | 8.8 | | | | |
| | 10000 | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 67.5 | 72.0 | 75.0 | 74.4 | 76.3 | 77.5 | 78.5 | 79.7 | 81.8 | 84.1 | 86.5 | 85.5 | 81.6 |
| PNDB | 73.0 | 78.2 | 81.5 | 80.8 | 82.7 | 83.4 | 84.8 | 85.8 | 87.5 | 87.6 | 87.6 | 85.4 | 79.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **762** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

| FREQ. | SCALED FROM MODEL DATA | | | | | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | | |
|-------|------------------------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 51 | 78.6 | 82.2 | 83.7 | 83.0 | 84.8 | 86.4 | 89.5 | 91.4 | 96.7 | 103.2 | 105.4 | 106.9 | |
| 63 | 83.0 | 85.0 | 86.6 | 86.3 | 87.7 | 89.0 | 89.7 | 91.1 | 94.0 | 99.3 | 105.3 | 108.7 | 109.8 |
| 80 | 83.1 | 84.6 | 86.1 | 86.7 | 88.5 | 90.1 | 91.3 | 92.9 | 95.6 | 103.0 | 108.9 | 111.6 | 110.9 |
| 103 | 84.2 | 86.0 | 87.0 | 88.0 | 90.9 | 92.0 | 93.9 | 95.3 | 99.5 | 104.1 | 109.0 | 111.2 | 111.2 |
| 125 | 86.0 | 87.5 | 89.3 | 89.0 | 92.0 | 93.1 | 94.5 | 96.1 | 99.8 | 103.9 | 107.9 | 109.8 | 110.3 |
| 160 | 88.8 | 90.1 | 90.3 | 90.6 | 92.0 | 93.1 | 94.5 | 96.1 | 100.2 | 104.0 | 106.2 | 109.1 | 108.4 |
| 200 | 88.8 | 91.3 | 93.3 | 91.4 | 93.0 | 94.1 | 95.5 | 96.9 | 100.3 | 103.9 | 105.1 | 107.2 | 107.8 |
| 250 | 87.9 | 90.2 | 90.7 | 90.3 | 92.8 | 93.5 | 94.8 | 96.8 | 100.1 | 102.7 | 103.1 | 103.3 | 102.8 |
| 315 | 87.2 | 89.8 | 90.6 | 91.4 | 93.3 | 94.7 | 96.6 | 99.1 | 100.2 | 101.3 | 100.3 | 98.9 | 98.0 |
| 400 | 87.6 | 89.2 | 90.0 | 90.5 | 93.2 | 94.8 | 96.2 | 98.7 | 99.1 | 96.3 | 95.4 | 95.0 | 95.0 |
| 500 | 88.3 | 89.4 | 89.4 | 90.4 | 92.2 | 93.6 | 95.3 | 97.5 | 98.2 | 97.5 | 96.5 | 96.3 | 96.6 |
| 630 | 88.5 | 89.3 | 88.9 | 89.9 | 92.2 | 93.3 | 95.2 | 97.4 | 97.4 | 97.5 | 96.0 | 95.8 | 96.8 |
| 800 | 86.1 | 89.0 | 89.1 | 89.8 | 92.4 | 92.0 | 94.2 | 94.8 | 95.9 | 96.3 | 95.2 | 95.5 | 96.5 |
| 1000 | 84.1 | 87.4 | 88.0 | 88.8 | 90.3 | 91.4 | 93.3 | 92.9 | 94.8 | 94.0 | 93.9 | 95.2 | 95.9 |
| 1250 | 83.1 | 86.1 | 87.0 | 88.7 | 90.0 | 90.3 | 93.2 | 92.0 | 94.0 | 93.1 | 93.7 | 95.4 | 94.6 |
| 1600 | 81.3 | 84.1 | 85.0 | 85.6 | 89.6 | 88.9 | 91.4 | 90.2 | 92.3 | 90.1 | 87.4 | 89.8 | 91.7 |
| 2000 | 79.7 | 84.0 | 83.4 | 84.5 | 87.7 | 87.4 | 87.9 | 88.6 | 91.2 | 87.6 | 86.7 | 85.7 | 88.5 |
| 2500 | 78.9 | 84.0 | 84.5 | 86.2 | 88.2 | 87.4 | 89.1 | 87.4 | 88.8 | 85.4 | 83.3 | 85.4 | 86.1 |
| 3150 | 76.7 | 82.1 | 84.3 | 86.1 | 87.4 | 87.6 | 88.4 | 85.8 | 85.6 | 84.0 | 80.8 | 82.9 | 83.7 |
| 4000 | 74.3 | 81.2 | 84.1 | 85.6 | 86.9 | 88.2 | 88.0 | 85.2 | 84.8 | 80.9 | 78.8 | 77.2 | 78.2 |
| 5000 | 73.1 | 80.2 | 85.0 | 85.3 | 85.8 | 87.2 | 87.8 | 87.6 | 86.0 | 81.5 | 78.2 | 73.8 | 75.5 |
| 6300 | 72.9 | 78.7 | 84.0 | 81.8 | 86.6 | 87.3 | 87.7 | 82.9 | 85.0 | 85.2 | 82.2 | 76.1 | 78.3 |
| 8000 | 109.3 | 103.2 | 104.3 | 103.4 | 104.9 | 105.9 | 107.4 | 108.3 | 111.3 | 114.1 | 117.5 | 119.9 | 119.7 |
| 10000 | 110.2 | 113.1 | 114.2 | 114.5 | 116.2 | 116.8 | 118.8 | 118.6 | 121.1 | 121.5 | 122.5 | 124.0 | 124.2 |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 763 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL - .33m²(513in²)

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM, DAY) | | ANGLES FROM INLET IN DEGREES (AND RADIANS) | | | | | | | | | | | | | |
|---|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | | | | | |
| FREQ. | NO EGA | (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) | (2.96) |
| 50 | 50.5 | 55.6 | 58.1 | 60.9 | 61.4 | 63.2 | 64.7 | 65.2 | 65.9 | 70.1 | 75.0 | 74.9 | 73.0 | | |
| 80 | 51.7 | 58.4 | 57.5 | 60.7 | 63.7 | 65.4 | 65.5 | 66.2 | 68.5 | 72.7 | 77.1 | 78.2 | 75.7 | | |
| 100 | 54.2 | 58.1 | 60.9 | 61.4 | 63.2 | 64.7 | 65.2 | 66.2 | 74.9 | 79.5 | 79.4 | 75.9 | | | |
| 125 | 54.7 | 57.8 | 60.4 | 61.7 | 63.5 | 65.7 | 66.7 | 68.0 | 73.9 | 76.1 | 80.5 | 80.8 | 76.5 | | |
| 160 | 55.6 | 59.0 | 61.2 | 63.0 | 65.0 | 66.7 | 68.0 | 70.2 | 72.2 | 76.1 | 80.4 | 81.3 | 76.6 | | |
| 200 | 59.8 | 62.8 | 64.3 | 65.3 | 67.1 | 68.3 | 69.1 | 70.1 | 73.6 | 77.0 | 80.5 | 80.5 | 78.0 | | |
| 250 | 57.7 | 61.9 | 65.2 | 65.2 | 66.8 | 69.0 | 70.3 | 71.7 | 73.9 | 76.5 | 77.0 | 77.4 | 72.5 | | |
| 315 | 61.4 | 67.8 | 69.0 | 68.1 | 67.9 | 71.2 | 70.2 | 71.1 | 73.8 | 76.1 | 75.5 | 75.0 | 71.3 | | |
| 400 | 58.8 | 63.2 | 66.5 | 65.4 | 67.4 | 68.7 | 69.9 | 70.9 | 73.3 | 74.6 | 73.1 | 70.5 | 65.5 | | |
| 500 | 62.4 | 66.1 | 71.7 | 68.1 | 70.0 | 68.5 | 71.0 | 71.1 | 74.2 | 73.5 | 70.5 | 68.2 | 62.3 | | |
| 630 | 56.7 | 61.1 | 63.0 | 63.4 | 66.5 | 67.3 | 68.5 | 69.9 | 72.5 | 72.2 | 69.1 | 64.6 | 58.3 | | |
| 800 | 55.1 | 58.4 | 61.4 | 63.2 | 64.5 | 66.6 | 67.8 | 69.2 | 73.7 | 70.3 | 63.7 | 61.2 | 53.6 | | |
| 1000 | 54.4 | 58.4 | 60.8 | 62.3 | 63.7 | 65.8 | 67.2 | 68.1 | 69.5 | 68.3 | 63.1 | 58.5 | 52.2 | | |
| 1250 | 53.7 | 57.4 | 59.2 | 61.4 | 63.8 | 65.4 | 67.1 | 66.6 | 68.0 | 65.6 | 61.9 | 57.6 | 50.5 | | |
| 1600 | 52.0 | 55.8 | 57.3 | 59.5 | 62.5 | 63.9 | 65.5 | 65.0 | 65.8 | 64.0 | 59.5 | 54.6 | 47.0 | | |
| 2000 | 47.3 | 53.6 | 55.8 | 57.9 | 61.2 | 61.1 | 63.0 | 62.9 | 63.6 | 60.8 | 56.4 | 51.3 | 42.3 | | |
| 2500 | 42.0 | 49.2 | 52.3 | 54.6 | 57.0 | 58.4 | 60.0 | 58.7 | 59.1 | 55.7 | 51.7 | 46.6 | 35.2 | | |
| 3150 | 35.5 | 43.4 | 47.4 | 50.9 | 53.3 | 53.9 | 56.5 | 54.2 | 54.4 | 50.3 | 46.1 | 39.9 | 23.6 | | |
| 4000 | 25.6 | 34.6 | 39.4 | 42.4 | 47.7 | 47.5 | 49.5 | 47.0 | 46.7 | 40.6 | 31.8 | 23.8 | 5.2 | | |
| 5000 | 19.4 | 30.6 | 34.4 | 38.1 | 42.8 | 43.0 | 43.0 | 42.2 | 42.2 | 34.3 | 26.4 | 13.6 | | | |
| 6300 | 4.8 | 19.2 | 25.4 | 30.6 | 34.5 | 34.3 | 35.4 | 31.9 | 29.7 | 20.6 | 9.3 | | | | |
| 8000 | | | 9.8 | 16.3 | 20.2 | 21.3 | 21.2 | 16.1 | 12.1 | 1.7 | | | | | |
| 10000 | | | 1.0 | 3.4 | 2.1 | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 69.4 | 74.2 | 76.7 | 76.2 | 78.0 | 79.3 | 80.5 | 81.4 | 83.9 | 86.2 | 88.6 | 88.6 | 84.7 | |
| | | 74.7 | 80.1 | 83.1 | 82.4 | 84.6 | 85.4 | 86.9 | 87.0 | 89.3 | 89.9 | 90.5 | 83.8 | 84.1 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **763** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANs)

| RDG. NO. | NO EGA | C. | RADIOAL | 40. FT. | 59. DEG. | 60. DEG. | 70. DEG. | 80. DEG. | 90. DEG. | 100. DEG. | 110. DEG. | 120. DEG. | 130. DEG. | 140. DEG. | 150. DEG. | 160. DEG. | PWL |
|--------------------|--------|-------|---------|---------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| | | | | | | | | | | | | | | | | | |
| 100 | 78.6 | 87.9 | 85.2 | 87.0 | 89.8 | 88.2 | 88.5 | 89.2 | 89.4 | 89.4 | 91.5 | 95.4 | 95.6 | 98.2 | 133.0 | | |
| 125 | 77.3 | 82.1 | 84.1 | 86.4 | 89.5 | 89.4 | 89.2 | 90.4 | 88.4 | 88.4 | 87.7 | 96.6 | 98.8 | 99.9 | 134.0 | | |
| 150 | 77.6 | 80.4 | 84.2 | 84.5 | 88.8 | 84.9 | 84.8 | 86.5 | 87.9 | 87.9 | 93.5 | 97.7 | 99.6 | 102.4 | 134.8 | | |
| 200 | 80.5 | 82.3 | 84.1 | 89.2 | 85.8 | 86.7 | 89.6 | 89.6 | 92.0 | 95.6 | 99.8 | 104.5 | 106.3 | 138.3 | 138.3 | | |
| 250 | 79.1 | 82.8 | 84.1 | 88.7 | 86.8 | 89.0 | 89.0 | 91.1 | 92.6 | 97.4 | 103.9 | 106.5 | 107.8 | 140.4 | 140.4 | | |
| 315 | 80.4 | 85.2 | 83.7 | 86.0 | 89.2 | 89.2 | 89.8 | 92.2 | 94.9 | 99.5 | 105.7 | 109.4 | 109.9 | 142.7 | 142.7 | | |
| 400 | 82.4 | 84.7 | 86.5 | 86.0 | 91.3 | 89.0 | 89.8 | 93.0 | 95.7 | 102.0 | 109.0 | 110.9 | 110.2 | 144.4 | 144.4 | | |
| 500 | 83.3 | 84.3 | 85.8 | 86.6 | 91.4 | 90.3 | 91.7 | 93.8 | 97.0 | 103.9 | 109.8 | 112.3 | 110.5 | 145.4 | 145.4 | | |
| 630 | 84.6 | 86.4 | 86.9 | 88.4 | 93.0 | 91.1 | 93.0 | 95.4 | 98.6 | 104.5 | 111.7 | 113.6 | 111.1 | 146.7 | 146.7 | | |
| 800 | 86.1 | 87.2 | 88.2 | 89.7 | 93.8 | 92.4 | 94.3 | 96.4 | 100.2 | 105.2 | 112.2 | 113.6 | 111.7 | 147.1 | 147.1 | | |
| 1000 | 90.7 | 91.0 | 91.7 | 92.0 | 94.6 | 94.0 | 94.9 | 97.5 | 100.0 | 105.6 | 112.0 | 112.7 | 111.2 | 146.8 | 146.8 | | |
| 1250 | 88.3 | 90.3 | 91.3 | 92.1 | 95.2 | 94.8 | 96.0 | 98.4 | 101.1 | 105.2 | 110.4 | 112.5 | 110.1 | 146.1 | 146.1 | | |
| 1600 | 87.9 | 89.7 | 90.4 | 91.5 | 96.3 | 94.9 | 95.8 | 98.0 | 101.4 | 105.0 | 108.2 | 110.9 | 109.2 | 144.9 | 144.9 | | |
| 2000 | 92.4 | 91.5 | 92.0 | 91.5 | 96.4 | 94.0 | 96.1 | 98.8 | 101.2 | 104.6 | 106.5 | 108.4 | 106.5 | 143.5 | 143.5 | | |
| 2500 | 99.0 | 96.6 | 94.3 | 93.6 | 96.7 | 94.1 | 96.0 | 98.4 | 101.1 | 103.2 | 103.9 | 106.5 | 105.3 | 142.5 | 142.5 | | |
| 3150 | 100.5 | 99.5 | 98.8 | 96.8 | 98.2 | 94.8 | 95.7 | 98.8 | 101.1 | 102.7 | 102.6 | 104.8 | 103.3 | 142.5 | 142.5 | | |
| 4000 | 99.0 | 98.6 | 98.9 | 99.1 | 99.0 | 96.1 | 95.7 | 98.6 | 100.4 | 100.9 | 99.6 | 102.0 | 100.1 | 141.6 | 141.6 | | |
| 5000 | 98.2 | 98.0 | 98.5 | 98.8 | 99.3 | 98.7 | 96.8 | 98.5 | 99.7 | 99.6 | 98.5 | 100.4 | 99.5 | 141.3 | 141.3 | | |
| 6300 | 95.2 | 96.0 | 96.1 | 97.9 | 99.2 | 99.0 | 99.2 | 98.4 | 99.8 | 99.8 | 98.5 | 97.1 | 99.5 | 99.3 | 141.0 | 141.0 | |
| 8000 | 93.8 | 93.4 | 93.9 | 95.9 | 98.3 | 98.1 | 98.8 | 98.9 | 99.7 | 98.1 | 95.7 | 98.4 | 98.6 | 140.4 | 140.4 | | |
| 10000 | 90.9 | 93.3 | 93.2 | 94.4 | 97.5 | 96.3 | 98.0 | 98.4 | 98.9 | 97.1 | 94.5 | 98.3 | 98.3 | 139.9 | 139.9 | | |
| 12500 | 88.6 | 90.6 | 91.3 | 92.7 | 95.0 | 94.4 | 96.5 | 96.1 | 96.8 | 95.5 | 92.6 | 95.4 | 96.9 | 138.3 | 138.3 | | |
| 15000 | 86.0 | 88.0 | 88.7 | 90.9 | 93.9 | 92.8 | 94.9 | 94.2 | 96.0 | 93.7 | 91.1 | 94.1 | 95.3 | 137.6 | 137.6 | | |
| 20000 | 82.2 | 84.1 | 86.0 | 87.6 | 92.6 | 90.2 | 92.3 | 90.9 | 93.0 | 89.6 | 86.9 | 90.6 | 91.5 | 135.7 | 135.7 | | |
| 25000 | 78.9 | 81.5 | 82.2 | 84.4 | 89.4 | 86.1 | 87.2 | 87.6 | 89.7 | 85.6 | 84.9 | 85.4 | 87.7 | 133.5 | 133.5 | | |
| 31500 | 76.0 | 79.7 | 81.4 | 83.8 | 88.8 | 84.8 | 85.7 | 84.6 | 85.7 | 82.1 | 81.0 | 84.9 | 84.5 | 133.7 | 133.7 | | |
| 40000 | 71.8 | 75.5 | 78.9 | 81.2 | 86.5 | 82.7 | 83.2 | 80.9 | 81.5 | 78.2 | 76.2 | 78.5 | 79.5 | 133.9 | 133.9 | | |
| 50000 | 64.8 | 70.1 | 74.2 | 76.4 | 80.9 | 78.8 | 78.5 | 78.1 | 77.7 | 72.3 | 69.9 | 70.0 | 71.8 | 133.4 | 133.4 | | |
| 63000 | 57.7 | 62.8 | 67.6 | 69.7 | 78.7 | 71.1 | 70.7 | 72.2 | 72.4 | 67.1 | 63.8 | 61.7 | 64.3 | 134.6 | 134.6 | | |
| 80000 | 51.1 | 55.7 | 61.3 | 62.1 | 74.9 | 62.5 | 62.2 | 62.0 | 63.8 | 59.5 | 57.5 | 52.4 | 58.1 | 138.6 | 138.6 | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | |
| 106.8 | 106.6 | 107.0 | 109.3 | 107.9 | 108.7 | 110.2 | 112.3 | 115.3 | 120.1 | 122.1 | 120.8 | 120.8 | 120.8 | 120.8 | 120.8 | 120.8 | 120.8 |
| 120.7 | 120.4 | 120.2 | 120.6 | 122.1 | 120.6 | 120.9 | 122.7 | 124.9 | 127.0 | 129.3 | 131.5 | 130.4 | 130.4 | 130.4 | 130.4 | 130.4 | 130.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **764** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-154cm²(23.9in²)** SIZE

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| SIDELINE 2400. FT.
(731.52 M) | 52.7 | 58.1 | 60.4 | 61.2 | 66.2 | 64.4 | 66.4 | 68.2 | 68.9 | 72.6 | 77.5 | 77.9 | 75.8 |
| NFA | 55.9 | 59.8 | 62.7 | 62.9 | 68.7 | 66.5 | 67.2 | 69.9 | 71.9 | 77.1 | 82.5 | 82.1 | 77.9 |
| (1. RPM | 56.7 | 59.3 | 61.9 | 63.5 | 68.7 | 67.7 | 69.0 | 70.7 | 73.2 | 78.9 | 83.2 | 83.3 | 78.0 |
| (0. RAD/SEC) | 59.2 | 61.9 | 64.1 | 66.4 | 70.9 | 69.6 | 71.4 | 73.1 | 76.1 | 80.2 | 85.3 | 84.3 | 78.5 |
| (0. RAD/SEC) | 63.6 | 65.6 | 67.5 | 68.6 | 71.6 | 71.1 | 71.8 | 74.1 | 75.7 | 80.2 | 84.9 | 83.1 | 77.7 |
| NFD (750G. RPM | 60.2 | 63.8 | 65.8 | 67.6 | 72.0 | 71.8 | 72.8 | 74.7 | 76.7 | 79.5 | 83.0 | 82.6 | 76.0 |
| (785. RAD/SEC) | 64.3 | 65.2 | 67.0 | 67.4 | 72.7 | 70.4 | 72.4 | 74.1 | 76.8 | 79.1 | 80.5 | 80.5 | 74.5 |
| AIRFLOW RATIO | 70.4 | 69.9 | 69.0 | 69.1 | 72.7 | 70.4 | 72.4 | 74.6 | 76.2 | 78.3 | 78.4 | 77.5 | 71.0 |
| WF/MM 4.63 | 71.2 | 72.3 | 73.0 | 73.8 | 77.2 | 70.2 | 72.0 | 73.9 | 75.7 | 76.5 | 75.2 | 75.0 | 68.8 |
| VEHICLE | 68.9 | 70.7 | 72.4 | 73.7 | 74.0 | 71.3 | 70.8 | 73.2 | 73.9 | 73.4 | 73.3 | 72.3 | 65.5 |
| CONFIG CELL41 | 66.9 | 69.2 | 71.3 | 72.6 | 73.7 | 73.3 | 71.2 | 72.3 | 72.5 | 70.8 | 67.3 | 65.5 | 57.9 |
| NC53 | 62.7 | 66.2 | 68.0 | 70.9 | 72.8 | 72.9 | 72.8 | 71.4 | 71.7 | 68.6 | 64.7 | 62.9 | 55.3 |
| LOC C41 ANECH CH | 59.5 | 62.1 | 64.6 | 67.8 | 70.8 | 70.9 | 71.3 | 70.8 | 70.3 | 66.8 | 61.5 | 59.4 | 51.0 |
| DATE C6-08-76 | 54.6 | 60.3 | 62.3 | 64.9 | 68.8 | 67.9 | 69.3 | 68.9 | 68.1 | 64.1 | 58.1 | 56.6 | 46.5 |
| RUN CONF7HIGHFLW | 49.3 | 55.2 | 58.3 | 61.4 | 64.5 | 64.2 | 66.0 | 64.8 | 63.8 | 60.0 | 53.2 | 49.6 | 39.0 |
| TAPE X07640 | 41.8 | 48.6 | 52.4 | 56.5 | 60.5 | 59.7 | 61.5 | 59.8 | 59.6 | 54.4 | 46.9 | 41.9 | 27.6 |
| FAN TIP SPEED | 30.7 | 38.7 | 44.5 | 48.5 | 54.8 | 52.8 | 54.5 | 51.8 | 51.5 | 44.2 | 35.4 | 28.6 | 9.0 |
| FT/SEC | 23.9 | 33.5 | 38.5 | 43.4 | 49.9 | 47.0 | 47.6 | 46.6 | 46.0 | 37.6 | 29.9 | 18.7 | |
| | 8.9 | 21.8 | 29.3 | 35.2 | 42.1 | 38.7 | 39.0 | 36.0 | 33.5 | 24.2 | 13.9 | 1.8 | |
| | | 2.4 | 13.7 | 20.7 | 28.6 | 25.7 | 25.4 | 20.4 | 16.2 | 5.1 | | | |
| | | | | 7.4 | 6.3 | 5.0 | 0.9 | | | | | | |
| OVERALL CALCULATED | 77.0 | 78.6 | 80.0 | 81.1 | 84.0 | 82.7 | 83.4 | 84.9 | 86.5 | 89.2 | 92.9 | 92.4 | 87.1 |
| PNDB | 82.6 | 84.9 | 86.5 | 88.0 | 91.4 | 90.6 | 91.3 | 91.7 | 92.3 | 93.2 | 94.8 | 93.7 | 87.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 764 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 8 DAY 26 HR. 12.5
 DATA (59. DEG. F. 73 PERCENT REL. HUM. DAY - JEMOTS)
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 73 PERCENT REL. HUM. DAY - JEMOTS)

| RDG. NO. | VEHICLE CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | THWT | HACT | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | C. | D. | E. | PUL |
|------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|----|-----|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | | | | |
| 50 | NO EGA | 50 | 74.4 | 77.4 | 78.5 | 78.8 | 80.8 | 82.9 | 83.3 | 83.9 | 86.3 | 88.8 | 91.8 | 95.8 | 100.0 | 100.5 | 143.6 | | |
| 63 | C | 80 | 77.3 | 78.5 | 80.8 | 80.8 | 82.7 | 83.3 | 84.0 | 84.9 | 87.3 | 89.8 | 93.9 | 97.3 | 99.8 | 99.8 | 145.1 | | |
| 100 | CELL41 | 125 | 77.9 | 79.1 | 80.9 | 81.2 | 82.8 | 83.3 | 85.1 | 85.8 | 88.2 | 90.9 | 95.2 | 97.7 | 99.6 | 99.1 | 145.5 | | |
| 125 | NC52 | 160 | 78.7 | 80.5 | 81.5 | 82.5 | 83.8 | 85.1 | 85.6 | 86.9 | 89.5 | 92.0 | 95.3 | 97.5 | 99.2 | 97.5 | 145.6 | | |
| 160 | ANECH CH | 200 | 79.5 | 81.5 | 82.5 | 83.8 | 85.1 | 85.6 | 87.0 | 88.1 | 90.3 | 92.8 | 95.8 | 97.5 | 95.0 | 95.0 | 145.3 | | |
| 250 | CONF7 | 315 | 80.5 | 82.3 | 83.3 | 83.9 | 86.0 | 87.3 | 89.2 | 90.9 | 92.8 | 95.9 | 99.9 | 95.0 | 93.3 | 93.3 | 146.9 | | |
| 400 | X07650 | 500 | 80.5 | 82.6 | 84.3 | 84.8 | 86.4 | 88.3 | 89.2 | 91.1 | 94.0 | 95.9 | 94.8 | 94.0 | 91.8 | 91.8 | 144.6 | | |
| 500 | (99381. N/M2) | 630 | 80.9 | 83.7 | 84.7 | 84.7 | 86.7 | 87.8 | 89.2 | 91.6 | 93.3 | 94.9 | 93.9 | 92.0 | 90.1 | 90.1 | 144.0 | | |
| 800 | DEG F | 1000 | 79.6 | 82.4 | 83.2 | 84.5 | 85.1 | 86.9 | 88.6 | 90.7 | 92.0 | 91.6 | 92.7 | 89.3 | 88.5 | 87.0 | 142.3 | | |
| 1250 | DEG K | 1600 | 77.7 | 81.1 | 81.6 | 83.4 | 85.7 | 87.1 | 89.2 | 90.6 | 91.6 | 91.8 | 89.2 | 88.6 | 88.3 | 87.9 | 142.1 | | |
| 2000 | DEG K | 2500 | 76.9 | 81.3 | 81.1 | 82.6 | 85.7 | 86.3 | 88.2 | 90.1 | 91.4 | 91.0 | 88.9 | 87.8 | 88.3 | 87.2 | 141.7 | | |
| 3150 | (.01134 KG/M3) | 4000 | 74.6 | 79.3 | 79.3 | 81.2 | 84.0 | 84.1 | 86.3 | 87.2 | 89.3 | 88.6 | 86.7 | 85.7 | 86.8 | 86.8 | 139.9 | | |
| 5000 | SHIFT | 6300 | 73.5 | 77.9 | 78.5 | 79.9 | 83.4 | 83.5 | 85.0 | 85.3 | 87.3 | 85.3 | 82.4 | 81.4 | 83.5 | 83.5 | 138.2 | | |
| 8000 | JET | 10000 | 74.2 | 79.5 | 78.2 | 80.0 | 82.2 | 82.9 | 83.6 | 83.2 | 86.0 | 82.7 | 81.4 | 78.0 | 80.3 | 80.3 | 137.1 | | |
| 12500 | DIAMETER RATIO | 16000 | 75.7 | 84.5 | 84.0 | 86.2 | 88.2 | 87.1 | 86.9 | 87.9 | 85.0 | 81.4 | 77.9 | 77.0 | 78.9 | 78.9 | 140.9 | | |
| DF/DM 4.63 | | | 70.7 | 81.7 | 83.8 | 84.3 | 83.6 | 83.9 | 84.1 | 86.7 | 85.3 | 80.9 | 74.7 | 70.2 | 71.4 | 71.4 | 143.9 | | |
| | | | 68.5 | 74.9 | 78.6 | 78.0 | 77.2 | 77.9 | 77.5 | 79.0 | 78.4 | 74.3 | 70.1 | 64.7 | 66.4 | 66.4 | 136.2 | | |
| | | | 71.7 | 81.4 | 85.0 | 82.3 | 80.4 | 84.5 | 82.7 | 81.5 | 78.5 | 76.1 | 71.9 | 64.6 | 67.8 | 67.8 | 143.6 | | |
| | | | 92.3 | 97.0 | 98.1 | 98.4 | 99.9 | 101.4 | 102.2 | 103.8 | 105.1 | 106.5 | 107.2 | 108.1 | 107.7 | 107.7 | 157.8 | | |
| | | | 102.3 | 109.5 | 110.3 | 110.7 | 112.2 | 113.8 | 114.2 | 115.3 | 115.9 | 114.4 | 113.6 | 113.7 | 113.7 | 113.7 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 765 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m(53in) SIZE

| NO EGA | FULL SIZE SOUND PRESSURE | | | | | | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|----------------------------------|--------------------------|------|------|------|------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | 210. | 220. | 230. | 240. | |
| SIDELINE 2400. FT.
(731.52 M) | 46.2 | 50.8 | 52.9 | 53.7 | 55.4 | 56.7 | 58.9 | 60.2 | 61.1 | 64.1 | 67.0 | 67.2 | 65.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| MFA (1. RPM) | 48.9 | 51.8 | 55.2 | 55.9 | 58.2 | 59.7 | 60.5 | 62.4 | 64.2 | 67.1 | 69.0 | 69.1 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 |
| NFK (0. RAD/SEC) | 50.7 | 54.4 | 56.6 | 57.7 | 59.7 | 61.0 | 62.2 | 64.5 | 66.2 | 68.4 | 69.2 | 68.8 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 |
| NFD (0. RAD/SEC) | 51.6 | 55.1 | 57.2 | 58.6 | 61.1 | 62.6 | 64.3 | 65.6 | 66.7 | 68.6 | 67.9 | 63.6 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| (785. RAD/SEC) | 51.4 | 54.4 | 57.9 | 58.7 | 60.5 | 62.5 | 64.3 | 66.0 | 66.9 | 68.3 | 66.5 | 63.1 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 |
| AIRFLOW RATIO | 50.5 | 54.5 | 57.5 | 58.4 | 61.2 | 62.4 | 63.7 | 65.6 | 66.5 | 66.8 | 63.9 | 59.3 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| WF/WM 4.63 | 50.4 | 54.4 | 56.7 | 58.6 | 60.5 | 61.5 | 63.0 | 64.9 | 66.0 | 65.2 | 61.5 | 57.2 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 |
| VEHICLE CELL41 | 49.7 | 54.6 | 57.0 | 57.9 | 60.5 | 61.1 | 63.3 | 64.9 | 65.5 | 64.4 | 60.6 | 55.1 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 |
| CONFIG NC52 | 48.4 | 52.9 | 55.9 | 56.1 | 58.8 | 60.5 | 61.3 | 64.1 | 63.7 | 62.8 | 57.2 | 53.0 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| LOC C41 ANECH CH | 46.4 | 51.6 | 54.0 | 56.3 | 57.5 | 59.5 | 61.0 | 62.6 | 62.8 | 60.8 | 56.1 | 50.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 |
| DATE 06-08-76 | 43.5 | 49.9 | 52.2 | 54.3 | 57.8 | 59.6 | 60.3 | 61.3 | 61.7 | 59.4 | 54.9 | 49.6 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 |
| RUN CONF7HIGHFLW | 38.1 | 45.8 | 47.8 | 50.7 | 54.5 | 55.3 | 57.0 | 58.2 | 58.1 | 55.6 | 50.1 | 45.6 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| TAPE X07650 | 33.2 | 41.4 | 49.6 | 47.8 | 51.0 | 52.6 | 53.9 | 54.3 | 53.6 | 51.5 | 45.2 | 38.1 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 |
| FAN TIP SPEED | 27.0 | 36.6 | 39.6 | 43.4 | 47.3 | 47.7 | 49.6 | 49.4 | 49.6 | 45.8 | 39.1 | 30.1 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| FT/SEC | 17.9 | 28.4 | 32.9 | 36.7 | 41.5 | 42.0 | 43.1 | 42.1 | 41.7 | 35.9 | 26.8 | 15.3 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| OVERALL CALCULATED | 13.9 | 26.2 | 29.2 | 33.6 | 37.3 | 38.5 | 38.7 | 37.9 | 37.0 | 29.3 | 21.1 | 15.3 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| PND8 | 1.6 | 19.7 | 25.0 | 30.6 | 34.5 | 34.1 | 33.2 | 32.3 | 26.0 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| 8000 | 9.8 | 18.1 | 22.8 | 26.0 | 29.6 | 29.6 | 27.7 | 25.2 | 18.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 10000 | 61.4 | 65.4 | 67.9 | 69.3 | 71.6 | 73.1 | 74.4 | 76.1 | 77.3 | 78.4 | 78.4 | 76.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 |
| 12500 | 64.8 | 70.0 | 73.7 | 74.9 | 77.9 | 79.2 | 80.7 | 81.9 | 82.4 | 82.4 | 82.4 | 79.4 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **765** ACUSTIC RANGE **731.5m(2400ft.)** SIDELINE **765** SIZE **FULL-.33m²(513in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| RDG. NO. | NO. EGA | RADIAL (12. M) | VEHICLE CONFIG | LDC DATE | C41 ANECH CH | RUN CONF7HIGHFLW | TAPE | BAR | TAMP | TWT | HACT11.34 | FREQ. | MODEL SOUND PRESSURE LEVELS (59. DEG. ANGLES FROM INLET IN DEGREES (AND RADIAN)) | | | PROC. DATE - MONTH 8 DAY 26 HR. 18.5 | F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | |
|--------------------|---------|----------------|----------------|----------|--------------|------------------|------|------|------|------|-----------|-------|--|-------|-------|--------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | 40. | 50. | 60. | | | | | | | | | |
| 50 | | 88.4 | 93.7 | 80.9 | 87.2 | 83.0 | 85.4 | 86.8 | 87.2 | 88.4 | 89.5 | 88.9 | 89.1 | | | | | | | | | | | |
| 63 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 130.1 | | | | | | | | |
| 80 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 129.5 | | | | | | | | |
| 100 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 129.8 | | | | | | | | |
| 125 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 133.6 | | | | | | | | |
| 160 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 135.2 | | | | | | | | |
| 200 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 137.3 | | | | | | | | |
| 250 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 315 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 400 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 500 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 630 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 800 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 1000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 1250 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 1600 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 2000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 2500 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 3150 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 4000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 5000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 8000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 10000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 12500 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 16000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 20000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 25000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 31500 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 40000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 50000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 63000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| 80000 | | 90.8 | 94.6 | 78.9 | 80.2 | 80.5 | 83.6 | 85.0 | 87.2 | 87.1 | 89.2 | 86.4 | 83.6 | | | 138.5 | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | 110.3 | 113.2 | 103.0 | 103.6 | 101.6 | 103.2 | 107.0 | 106.5 | 108.5 | 111.0 | 112.1 | 111.3 |
| OVERALL CALCULATED | | | | | | | | | | | | | 118.7 | 120.8 | 117.2 | 117.7 | 115.0 | 116.7 | 122.1 | 120.0 | 121.8 | 123.9 | 125.9 | 124.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **766** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-154cm²(23.9in²)** SIZE

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| NO EGA | FREQ. | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL | |
|--------------------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | | 150. |
| RDG. NO. 0. | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| RADIAL 150. FT. | (0.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| (46. M) | 99.6 | 104.2 | 82.2 | 83.0 | 82.8 | 83.7 | 85.3 | 87.7 | 90.4 | 92.5 | 92.7 | 94.6 |
| VEHICLE CELL41 | 80 | 103.5 | 106.8 | 85.5 | 85.1 | 85.4 | 88.4 | 89.3 | 91.3 | 93.1 | 94.8 | 97.0 |
| CONFIG NC53 | 100 | 104.1 | 106.9 | 86.4 | 85.4 | 85.3 | 87.1 | 88.5 | 91.4 | 92.4 | 95.4 | 97.4 |
| LOC C41 ANECH CH | 125 | 103.5 | 106.5 | 87.7 | 87.3 | 86.6 | 88.5 | 90.9 | 92.3 | 94.0 | 97.3 | 99.3 |
| DATE C6-08-76 | 160 | 102.5 | 105.0 | 89.0 | 88.8 | 88.1 | 90.2 | 91.6 | 93.8 | 95.3 | 99.1 | 100.5 |
| RUN CONF7HIGHFLW | 200 | 99.8 | 102.1 | 91.1 | 90.6 | 89.7 | 90.8 | 92.7 | 95.1 | 96.8 | 100.2 | 100.9 |
| TAPE X07660 | 315 | 97.7 | 97.8 | 91.5 | 90.5 | 90.6 | 91.4 | 93.1 | 96.0 | 97.2 | 100.7 | 102.2 |
| BAR 29.4 HG | 400 | 95.8 | 91.6 | 91.9 | 92.3 | 92.8 | 94.2 | 96.6 | 97.8 | 98.6 | 100.9 | 102.7 |
| (99347. N/M2) | 500 | 93.9 | 93.2 | 92.0 | 92.7 | 91.8 | 93.7 | 95.6 | 96.7 | 98.7 | 102.0 | 103.0 |
| TAMB 64. DEG F | 630 | 92.4 | 92.0 | 98.5 | 99.0 | 94.8 | 96.7 | 105.6 | 100.0 | 101.7 | 102.6 | 106.3 |
| (291. DEG K) | 800 | 90.7 | 89.5 | 92.1 | 91.8 | 90.7 | 92.5 | 94.9 | 96.3 | 98.6 | 101.9 | 102.6 |
| TWET 59. DEG F | 1000 | 90.1 | 90.2 | 94.0 | 93.7 | 91.3 | 92.9 | 94.3 | 96.5 | 98.0 | 102.1 | 102.0 |
| (288. DEG K) | 1250 | 89.8 | 91.1 | 95.4 | 95.9 | 94.2 | 94.4 | 95.5 | 96.9 | 99.7 | 101.3 | 101.9 |
| HACT11.34 GM/M3 | 1600 | 89.2 | 91.1 | 93.9 | 94.8 | 93.6 | 93.6 | 95.5 | 96.6 | 98.9 | 101.0 | 100.9 |
| (.01134 KG/M3) | 2000 | 88.9 | 91.8 | 92.4 | 92.3 | 90.1 | 92.7 | 94.6 | 95.8 | 98.1 | 100.5 | 100.2 |
| FREQ. SHIFT | 2500 | 87.7 | 90.9 | 90.4 | 92.3 | 90.1 | 92.7 | 94.6 | 95.8 | 97.8 | 98.9 | 98.4 |
| JET 7 | 3150 | 86.9 | 90.3 | 89.5 | 90.7 | 88.5 | 91.6 | 94.3 | 95.0 | 97.8 | 97.6 | 98.2 |
| DIAMETER RATIO | 4000 | 83.9 | 88.5 | 87.4 | 88.3 | 87.1 | 89.2 | 92.9 | 92.9 | 96.8 | 95.4 | 95.9 |
| DF/DM 4.63 | 5000 | 79.1 | 85.3 | 86.4 | 87.5 | 85.2 | 87.5 | 90.2 | 91.4 | 92.7 | 93.8 | 94.7 |
| OVERALL CALCULATED | 6300 | 79.7 | 83.7 | 86.2 | 87.1 | 85.6 | 88.6 | 90.7 | 91.4 | 93.5 | 93.5 | 92.6 |
| | 8000 | 76.2 | 80.2 | 84.2 | 85.1 | 85.1 | 87.4 | 88.4 | 90.1 | 92.1 | 92.3 | 90.8 |
| | 10000 | 69.5 | 74.7 | 80.8 | 82.3 | 82.7 | 84.4 | 84.6 | 87.0 | 87.8 | 88.9 | 87.2 |
| | 12500 | 63.8 | 69.1 | 80.1 | 80.0 | 82.2 | 81.6 | 82.2 | 85.0 | 85.6 | 87.9 | 85.1 |
| | 16000 | 60.2 | 69.0 | 81.7 | 81.2 | 85.0 | 79.8 | 80.2 | 84.3 | 87.0 | 88.6 | 84.9 |
| | PND5 | 111.8 | 114.6 | 105.1 | 105.7 | 103.7 | 105.3 | 109.1 | 108.7 | 110.7 | 113.1 | 114.1 |
| | | 116.0 | 118.6 | 115.7 | 116.9 | 114.9 | 117.0 | 119.7 | 120.3 | 122.6 | 123.9 | 124.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 766 TEST POINT 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

+ 80° spectra missing > sec repeat data point

PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | |
| 50 | (0.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| 63 | 71.5 | 77.6 | 56.6 | 58.2 | 58.6 | 59.3 | 60.5 | 62.2 | 63.8 | 64.3 | 62.3 | 60.7 |
| 80 | 74.0 | 79.6 | 58.2 | 60.5 | 58.6 | 61.8 | 63.6 | 64.2 | 63.9 | 65.6 | 64.3 | 63.0 |
| 100 | 75.7 | 80.1 | 60.2 | 60.2 | 61.1 | 62.3 | 63.5 | 64.7 | 64.6 | 66.8 | 65.9 | 64.6 |
| 125 | 74.9 | 79.5 | 61.9 | 62.2 | 62.1 | 63.9 | 65.8 | 66.5 | 67.9 | 68.2 | 70.3 | 69.4 |
| 160 | 73.7 | 77.9 | 63.1 | 63.6 | 63.5 | 65.5 | 66.5 | 67.9 | 68.2 | 70.3 | 69.4 | 66.7 |
| 200 | 70.8 | 74.8 | 65.0 | 65.3 | 65.0 | 66.0 | 67.4 | 69.0 | 69.6 | 71.2 | 69.4 | 66.4 |
| 250 | 69.9 | 72.4 | 64.9 | 65.0 | 65.7 | 66.4 | 67.6 | 69.7 | 69.7 | 71.5 | 70.4 | 66.5 |
| 315 | 68.2 | 70.0 | 65.0 | 66.6 | 65.8 | 67.5 | 68.4 | 70.0 | 70.0 | 71.3 | 70.1 | 66.2 |
| 400 | 65.8 | 67.0 | 64.7 | 65.9 | 66.1 | 66.8 | 68.7 | 69.0 | 70.5 | 72.2 | 69.3 | 64.4 |
| 500 | 63.4 | 64.6 | 64.7 | 66.4 | 66.4 | 67.8 | 69.2 | 69.5 | 70.2 | 71.5 | 69.5 | 63.0 |
| 630 | 61.2 | 62.8 | 70.7 | 72.2 | 68.7 | 70.4 | 78.8 | 72.3 | 72.6 | 71.4 | 71.9 | 65.0 |
| 800 | 58.6 | 59.6 | 63.7 | 64.4 | 64.4 | 65.6 | 67.5 | 67.9 | 68.7 | 69.8 | 67.1 | 58.6 |
| 1000 | 56.9 | 59.4 | 64.8 | 65.6 | 63.9 | 65.4 | 66.2 | 67.3 | 67.2 | 68.9 | 65.1 | 55.2 |
| 1250 | 55.2 | 59.2 | 65.2 | 66.8 | 66.0 | 65.9 | 66.4 | 66.7 | 67.7 | 66.7 | 63.2 | 52.5 |
| 1600 | 52.7 | 57.5 | 62.3 | 64.8 | 62.5 | 63.9 | 65.1 | 65.0 | 65.4 | 64.5 | 59.7 | 48.8 |
| 2000 | 50.1 | 56.3 | 59.1 | 62.9 | 61.0 | 62.6 | 63.7 | 62.5 | 62.7 | 61.7 | 56.0 | 43.3 |
| 2500 | 45.6 | 52.7 | 54.7 | 58.1 | 57.0 | 59.4 | 60.4 | 60.0 | 59.6 | 56.7 | 49.8 | 35.0 |
| 3150 | 39.3 | 47.6 | 49.8 | 52.9 | 52.1 | 54.9 | 56.5 | 55.3 | 55.1 | 50.1 | 42.6 | 23.4 |
| 4000 | 28.3 | 39.0 | 41.8 | 45.1 | 45.7 | 47.3 | 49.7 | 47.3 | 47.3 | 39.8 | 29.9 | 3.8 |
| 5000 | 18.8 | 31.9 | 37.3 | 41.1 | 40.8 | 42.6 | 43.9 | 42.4 | 42.4 | 39.4 | 33.5 | 22.6 |
| 6300 | 5.7 | 18.9 | 27.2 | 31.5 | 32.5 | 35.0 | 35.1 | 32.4 | 28.7 | 19.4 | 2.7 | |
| 8000 | | | 9.7 | 15.3 | 18.8 | 20.3 | 18.6 | 15.6 | 9.7 | | | |
| 10000 | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 83.0 | 87.6 | 76.6 | 77.8 | 76.7 | 78.1 | 81.7 | 80.2 | 80.7 | 81.7 | 80.1 | 76.1 |
| PNUB | 83.0 | 87.6 | 83.6 | 85.3 | 83.6 | 85.1 | 89.4 | 86.8 | 87.1 | 87.0 | 85.0 | 78.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **766** ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)

| RDG. NO. | VEHICLE | CONFIS | LUC | DATE | RUN | TAPE | BAR | TAXB | TNET | WACTIS | FREQ. | MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS) | | | PROC. DATE - MONTH 3 DAY 26 HR. 10.1 | | | SIZE | | | | | | | | | | | | |
|--------------------|---------|--------|-----|------|-----|------|-----|------|------|--------|-------|---|------------|------------|--------------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|------|-------|-------|-------|-------|
| | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | | |
| 50 | VO ESA | | | | | | | | | | | 40. (0.79) | 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. | 132.0 | | |
| 53 | | | | | | | | | | | | 50. (0.79) | 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. | 131.6 | | | |
| 83 | | | | | | | | | | | | 77.9 | 87.7 | 84.4 | 85.7 | 87.0 | 87.4 | 88.3 | 87.2 | 88.2 | 89.2 | 91.2 | 94.9 | 94.1 | 97.2 | 0. | 0. | 0. | 132.9 | |
| 100 | | | | | | | | | | | | 75.3 | 80.6 | 52.4 | 84.2 | 87.6 | 87.4 | 87.2 | 87.4 | 87.2 | 88.2 | 89.2 | 91.2 | 94.9 | 94.1 | 97.2 | 0. | 0. | 0. | 136.4 |
| 125 | | | | | | | | | | | | 75.9 | 78.9 | 82.4 | 82.2 | 83.3 | 83.2 | 83.5 | 84.2 | 86.9 | 92.2 | 96.4 | 98.6 | 102.3 | 104.5 | 0. | 0. | 0. | 139.0 | |
| 160 | | | | | | | | | | | | 78.5 | 79.8 | 41.0 | 83.4 | 84.0 | 85.4 | 85.4 | 86.8 | 90.5 | 94.9 | 98.6 | 102.3 | 104.5 | 0. | 0. | 0. | 141.1 | | |
| 200 | | | | | | | | | | | | 77.0 | 61.1 | 32.0 | 83.1 | 84.5 | 85.3 | 85.3 | 88.4 | 90.8 | 96.9 | 103.1 | 104.8 | 106.1 | 0. | 0. | 0. | 142.5 | | |
| 223 | | | | | | | | | | | | 79.2 | 85.9 | 32.9 | 84.7 | 87.1 | 87.9 | 89.1 | 91.3 | 93.2 | 99.5 | 105.0 | 107.4 | 107.7 | 0. | 0. | 0. | 143.8 | | |
| 315 | | | | | | | | | | | | 81.7 | 83.5 | 85.5 | 86.8 | 88.2 | 89.1 | 89.2 | 91.8 | 96.0 | 103.1 | 108.1 | 109.8 | 108.8 | 0. | 0. | 0. | 143.6 | | |
| 400 | | | | | | | | | | | | 82.3 | 83.8 | 85.3 | 85.8 | 87.2 | 89.0 | 90.2 | 91.8 | 96.0 | 103.1 | 108.1 | 109.8 | 108.8 | 0. | 0. | 0. | 142.1 | | |
| 500 | | | | | | | | | | | | 83.1 | 85.1 | 85.6 | 87.4 | 88.8 | 89.9 | 92.3 | 93.7 | 97.4 | 103.7 | 107.9 | 110.1 | 108.9 | 0. | 0. | 0. | 140.0 | | |
| 630 | | | | | | | | | | | | 84.9 | 86.9 | 87.4 | 88.7 | 89.8 | 91.2 | 93.0 | 94.4 | 98.7 | 104.0 | 107.4 | 109.6 | 108.9 | 0. | 0. | 0. | 140.3 | | |
| 800 | | | | | | | | | | | | 87.5 | 83.5 | 89.2 | 89.8 | 90.9 | 91.7 | 93.9 | 95.5 | 99.2 | 103.8 | 105.8 | 106.7 | 107.2 | 0. | 0. | 0. | 138.6 | | |
| 1000 | | | | | | | | | | | | 86.5 | 89.2 | 90.1 | 89.9 | 90.7 | 92.6 | 94.2 | 96.4 | 99.6 | 103.4 | 104.6 | 105.8 | 105.3 | 0. | 0. | 0. | 138.2 | | |
| 1250 | | | | | | | | | | | | 86.4 | 89.2 | 89.2 | 89.7 | 92.1 | 94.7 | 95.1 | 96.2 | 99.9 | 104.0 | 103.5 | 106.1 | 106.2 | 0. | 0. | 0. | 142.1 | | |
| 1500 | | | | | | | | | | | | 86.4 | 89.2 | 89.2 | 89.7 | 92.1 | 94.7 | 95.1 | 96.2 | 99.9 | 104.0 | 103.5 | 106.1 | 106.2 | 0. | 0. | 0. | 140.0 | | |
| 2000 | | | | | | | | | | | | 86.4 | 89.2 | 89.2 | 89.7 | 92.1 | 94.7 | 95.1 | 96.2 | 99.9 | 104.0 | 103.5 | 106.1 | 106.2 | 0. | 0. | 0. | 140.3 | | |
| 2500 | | | | | | | | | | | | 86.4 | 89.2 | 89.2 | 89.7 | 92.1 | 94.7 | 95.1 | 96.2 | 99.9 | 104.0 | 103.5 | 106.1 | 106.2 | 0. | 0. | 0. | 139.6 | | |
| 3150 | | | | | | | | | | | | 87.0 | 89.3 | 90.6 | 90.1 | 92.2 | 93.1 | 94.4 | 96.6 | 100.3 | 101.9 | 102.4 | 102.8 | 102.1 | 0. | 0. | 0. | 138.6 | | |
| 4000 | | | | | | | | | | | | 85.8 | 87.1 | 88.9 | 89.4 | 90.7 | 92.6 | 94.5 | 96.9 | 99.6 | 100.5 | 98.9 | 100.1 | 99.1 | 0. | 0. | 0. | 138.2 | | |
| 5000 | | | | | | | | | | | | 85.7 | 88.5 | 89.0 | 89.8 | 91.1 | 92.5 | 94.3 | 96.3 | 98.5 | 99.5 | 98.5 | 99.9 | 99.7 | 0. | 0. | 0. | 137.7 | | |
| 6300 | | | | | | | | | | | | 84.5 | 86.8 | 87.8 | 88.8 | 91.4 | 93.3 | 95.2 | 96.1 | 98.8 | 98.2 | 98.1 | 100.3 | 99.8 | 0. | 0. | 0. | 137.3 | | |
| 8000 | | | | | | | | | | | | 85.1 | 86.2 | 88.2 | 88.2 | 90.7 | 92.3 | 94.7 | 95.2 | 97.9 | 98.0 | 97.0 | 99.3 | 99.6 | 0. | 0. | 0. | 135.7 | | |
| 10000 | | | | | | | | | | | | 81.2 | 85.0 | 85.6 | 87.4 | 90.4 | 91.0 | 93.7 | 94.4 | 97.1 | 96.5 | 95.7 | 99.6 | 99.0 | 0. | 0. | 0. | 133.0 | | |
| 12500 | | | | | | | | | | | | 78.5 | 82.6 | 83.7 | 85.7 | 88.7 | 89.8 | 92.0 | 92.1 | 94.2 | 94.2 | 93.8 | 97.6 | 97.0 | 0. | 0. | 0. | 130.6 | | |
| 16000 | | | | | | | | | | | | 77.4 | 81.2 | 81.9 | 84.8 | 87.1 | 87.9 | 90.8 | 90.3 | 93.4 | 92.4 | 92.7 | 96.0 | 96.2 | 0. | 0. | 0. | 129.3 | | |
| 20000 | | | | | | | | | | | | 74.1 | 78.2 | 79.6 | 81.2 | 85.5 | 85.5 | 88.7 | 87.5 | 90.8 | 88.9 | 87.2 | 92.2 | 92.6 | 0. | 0. | 0. | 128.9 | | |
| 25000 | | | | | | | | | | | | 71.7 | 76.0 | 76.2 | 78.5 | 81.7 | 82.2 | 83.4 | 83.9 | 87.7 | 84.6 | 84.4 | 86.3 | 86.0 | 0. | 0. | 0. | 128.9 | | |
| 31500 | | | | | | | | | | | | 69.3 | 74.1 | 75.6 | 77.8 | 80.3 | 80.0 | 81.9 | 81.6 | 83.6 | 81.0 | 80.4 | 86.3 | 86.0 | 0. | 0. | 0. | 128.9 | | |
| 40000 | | | | | | | | | | | | 65.5 | 70.6 | 73.3 | 75.0 | 76.8 | 76.6 | 78.3 | 76.2 | 78.5 | 77.2 | 75.2 | 81.3 | 81.1 | 0. | 0. | 0. | 128.9 | | |
| 50000 | | | | | | | | | | | | 60.4 | 66.4 | 69.6 | 70.9 | 72.7 | 73.6 | 74.6 | 72.6 | 73.2 | 70.5 | 69.5 | 73.0 | 73.1 | 0. | 0. | 0. | 128.9 | | |
| 63000 | | | | | | | | | | | | 54.5 | 59.8 | 64.0 | 65.4 | 67.3 | 68.0 | 67.8 | 67.6 | 67.0 | 64.9 | 62.9 | 65.3 | 65.3 | 0. | 0. | 0. | 128.9 | | |
| 80000 | | | | | | | | | | | | 48.4 | 53.8 | 58.6 | 57.1 | 63.0 | 62.4 | 64.1 | 58.1 | 60.8 | 61.7 | 59.4 | 62.2 | 62.7 | 0. | 0. | 0. | 153.1 | | |
| OVERALL MEASURED | | | | | | | | | | | | 97.7 | 100.3 | 101.6 | 101.6 | 103.3 | 104.7 | 106.4 | 107.8 | 111.0 | 114.2 | 116.8 | 118.6 | 118.3 | 0. | 0. | 0. | 153.8 | | |
| OVERALL CALCULATED | | | | | | | | | | | | 97.7 | 100.3 | 101.6 | 101.6 | 103.3 | 104.7 | 106.4 | 107.8 | 111.0 | 114.2 | 116.8 | 118.6 | 118.3 | 0. | 0. | 0. | 153.8 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 762 ACOUSTIC RANGE 12.2m(40ft.) ARC
 MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | FREQ. | | | | | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | INLET IN DEGREES (AND RADIANS) | | | | | | | | |
| 50 | 79.6 | 82.9 | 84.7 | 85.0 | 86.3 | 87.7 | 89.8 | 90.2 | 92.7 | 98.7 | 106.9 | 109.6 | 107.9 | 152.3 |
| 63 | 81.0 | 85.8 | 84.8 | 86.6 | 88.3 | 89.8 | 91.8 | 95.0 | 101.3 | 106.8 | 109.2 | 109.5 | 154.4 | |
| 80 | 83.5 | 85.3 | 87.3 | 87.3 | 88.7 | 90.0 | 90.9 | 93.1 | 97.1 | 103.6 | 108.8 | 110.5 | 110.0 | 155.8 |
| 100 | 84.1 | 85.6 | 87.1 | 87.7 | 89.0 | 92.0 | 93.7 | 97.9 | 105.0 | 109.9 | 111.6 | 110.6 | 156.8 | |
| 125 | 85.0 | 87.0 | 87.5 | 89.3 | 90.6 | 91.7 | 94.1 | 95.5 | 99.2 | 105.6 | 109.8 | 111.9 | 110.7 | 157.1 |
| 160 | 86.7 | 88.7 | 89.3 | 90.5 | 91.6 | 93.0 | 94.9 | 96.3 | 100.5 | 105.8 | 109.3 | 111.5 | 110.7 | 156.9 |
| 200 | 89.3 | 90.3 | 91.1 | 91.6 | 92.7 | 93.6 | 95.7 | 97.4 | 101.1 | 105.7 | 107.6 | 108.5 | 109.1 | 155.5 |
| 250 | 88.4 | 89.7 | 91.9 | 91.7 | 92.6 | 94.4 | 96.1 | 98.2 | 101.4 | 105.3 | 106.5 | 107.6 | 107.2 | 154.8 |
| 315 | 88.2 | 91.0 | 91.0 | 91.6 | 93.9 | 96.5 | 96.9 | 98.1 | 101.8 | 105.9 | 107.3 | 108.0 | 108.0 | 155.4 |
| 400 | 88.3 | 89.6 | 91.3 | 91.6 | 93.0 | 95.1 | 96.7 | 98.1 | 101.6 | 104.4 | 104.1 | 104.6 | 104.1 | 153.3 |
| 500 | 90.7 | 94.7 | 97.2 | 92.0 | 94.1 | 95.0 | 96.8 | 98.8 | 102.2 | 103.8 | 104.3 | 104.7 | 104.0 | 153.7 |
| 630 | 88.9 | 91.2 | 92.7 | 92.0 | 94.1 | 95.0 | 96.3 | 98.5 | 102.5 | 103.3 | 102.5 | 103.7 | 103.2 | 152.9 |
| 800 | 87.7 | 89.0 | 90.8 | 91.3 | 92.7 | 94.5 | 96.4 | 98.8 | 101.6 | 102.4 | 100.9 | 102.0 | 101.0 | 151.9 |
| 1000 | 87.6 | 90.4 | 91.0 | 91.7 | 93.1 | 94.4 | 96.3 | 98.2 | 100.5 | 101.3 | 100.5 | 101.9 | 101.7 | 151.5 |
| 1250 | 86.5 | 88.9 | 89.9 | 90.9 | 93.5 | 95.4 | 97.2 | 98.2 | 100.9 | 100.3 | 100.2 | 102.3 | 101.9 | 151.5 |
| 1600 | 86.0 | 87.3 | 88.4 | 90.4 | 93.0 | 94.6 | 97.0 | 97.4 | 100.1 | 100.3 | 99.2 | 101.6 | 101.8 | 151.1 |
| 2000 | 83.6 | 87.5 | 88.1 | 89.8 | 92.9 | 93.5 | 96.1 | 96.8 | 99.6 | 99.0 | 98.1 | 102.2 | 101.5 | 150.6 |
| 2500 | 81.6 | 85.4 | 86.5 | 88.5 | 91.5 | 92.6 | 94.8 | 94.9 | 97.0 | 96.9 | 96.6 | 100.4 | 100.4 | 149.0 |
| 3150 | 80.8 | 84.5 | 85.2 | 88.1 | 90.4 | 91.3 | 94.2 | 93.7 | 96.7 | 95.7 | 96.1 | 99.3 | 99.5 | 148.4 |
| 4000 | 78.2 | 82.2 | 83.6 | 85.3 | 89.5 | 89.6 | 92.8 | 91.6 | 94.9 | 92.9 | 91.3 | 96.2 | 96.6 | 146.3 |
| 5000 | 77.1 | 81.4 | 81.5 | 83.8 | 87.0 | 87.5 | 88.8 | 89.2 | 93.0 | 90.0 | 89.8 | 92.1 | 94.4 | 143.9 |
| 6300 | 76.2 | 81.1 | 82.5 | 84.7 | 87.2 | 86.9 | 88.9 | 88.5 | 93.6 | 87.9 | 87.4 | 93.2 | 92.9 | 143.6 |
| 8000 | 74.8 | 79.9 | 82.5 | 84.3 | 86.1 | 85.9 | 86.5 | 87.6 | 88.5 | 86.5 | 84.5 | 90.6 | 90.4 | 142.6 |
| 10000 | 72.7 | 78.7 | 81.9 | 83.2 | 85.0 | 85.9 | 86.9 | 84.9 | 85.5 | 82.8 | 81.9 | 85.3 | 85.4 | 141.9 |
| 12500 | 71.5 | 76.5 | 80.7 | 82.1 | 84.1 | 84.8 | 84.6 | 84.4 | 83.3 | 81.7 | 79.7 | 82.1 | 82.3 | 142.2 |
| 15000 | 71.5 | 76.9 | 81.7 | 80.3 | 86.1 | 85.5 | 87.2 | 81.2 | 83.9 | 84.8 | 82.6 | 85.3 | 85.8 | 146.4 |
| OVERALL CALCULATED | 99.6 | 102.1 | 103.5 | 103.5 | 105.4 | 106.7 | 108.5 | 109.8 | 113.0 | 116.1 | 118.6 | 120.3 | 119.9 | 167.0 |
| PNDB | 108.6 | 111.7 | 113.2 | 114.3 | 116.6 | 117.6 | 119.8 | 120.2 | 123.2 | 123.9 | 124.5 | 127.1 | 127.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **767** ACOUSTIC RANGE **45.7m(150ft.)** ARC **767** SIZE **FULL-.33m²(51in²)**

| FREQ. | FULL SCALE SOUND PRESSURE LEVELS SCALES FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 51.5 | 56.3 | 59.2 | 60.2 | 61.9 | 63.4 | 65.4 | 67.2 | 72.1 | 76.8 | 76.2 | 74.0 | 160. |
| 63 | 52.7 | 59.1 | 59.2 | 61.7 | 64.5 | 65.5 | 66.5 | 67.0 | 69.5 | 74.7 | 78.6 | 75.5 | 0. |
| 80 | 55.2 | 56.6 | 61.7 | 62.4 | 64.2 | 65.7 | 66.5 | 68.2 | 71.4 | 75.9 | 85.5 | 75.9 | 0. |
| 100 | 55.7 | 58.8 | 61.4 | 62.7 | 64.5 | 66.5 | 67.5 | 68.7 | 72.2 | 78.1 | 81.5 | 80.8 | 0. |
| 125 | 56.4 | 60.0 | 61.7 | 64.2 | 66.0 | 67.2 | 69.5 | 70.5 | 73.4 | 78.6 | 81.2 | 81.0 | 0. |
| 160 | 58.0 | 61.7 | 63.4 | 66.9 | 68.4 | 70.1 | 71.1 | 74.0 | 78.7 | 80.5 | 80.3 | 75.8 | 0. |
| 200 | 60.3 | 63.1 | 65.0 | 66.3 | 67.8 | 68.9 | 70.8 | 72.1 | 75.0 | 78.4 | 78.7 | 77.1 | 0. |
| 250 | 59.2 | 62.2 | 65.7 | 66.2 | 67.5 | 69.5 | 71.0 | 72.7 | 75.2 | 77.8 | 77.2 | 75.9 | 0. |
| 315 | 58.7 | 63.3 | 64.5 | 65.9 | 68.7 | 71.4 | 71.7 | 72.4 | 75.3 | 78.1 | 77.8 | 75.8 | 0. |
| 400 | 58.3 | 61.5 | 64.5 | 65.6 | 67.4 | 69.7 | 71.2 | 72.1 | 74.8 | 76.3 | 74.1 | 71.8 | 0. |
| 500 | 60.1 | 66.1 | 70.0 | 66.6 | 68.2 | 69.2 | 71.0 | 72.4 | 75.0 | 75.3 | 73.7 | 71.2 | 0. |
| 630 | 57.7 | 62.1 | 65.0 | 65.2 | 67.8 | 68.8 | 70.0 | 71.7 | 74.8 | 74.2 | 71.3 | 69.3 | 0. |
| 800 | 55.6 | 59.2 | 62.4 | 63.9 | 65.8 | 67.8 | 69.5 | 71.4 | 73.2 | 72.5 | 68.8 | 66.5 | 0. |
| 1000 | 54.4 | 59.7 | 61.8 | 63.6 | 65.5 | 67.0 | 68.7 | 70.1 | 71.3 | 70.5 | 67.3 | 65.0 | 0. |
| 1250 | 52.0 | 56.9 | 59.7 | 61.8 | 65.0 | 67.1 | 68.8 | 69.1 | 70.7 | 68.3 | 65.6 | 63.6 | 0. |
| 1600 | 49.5 | 53.8 | 56.8 | 60.0 | 63.3 | 65.1 | 67.3 | 67.0 | 68.5 | 66.7 | 62.7 | 61.3 | 0. |
| 2000 | 44.8 | 52.0 | 54.8 | 57.9 | 61.7 | 62.6 | 65.0 | 64.9 | 66.3 | 63.5 | 59.3 | 58.0 | 0. |
| 2500 | 39.5 | 47.1 | 50.8 | 54.3 | 58.2 | 59.6 | 61.5 | 60.7 | 61.3 | 58.7 | 54.4 | 51.8 | 0. |
| 3150 | 33.2 | 41.8 | 45.5 | 50.4 | 53.7 | 54.9 | 57.4 | 55.9 | 57.0 | 53.0 | 48.5 | 43.8 | 0. |
| 4000 | 22.6 | 32.8 | 38.0 | 42.1 | 47.6 | 48.1 | 50.9 | 48.4 | 49.3 | 43.5 | 35.7 | 30.2 | 0. |
| 5000 | 16.8 | 28.0 | 32.5 | 37.5 | 42.2 | 43.1 | 43.9 | 42.8 | 44.0 | 36.6 | 29.5 | 19.9 | 0. |
| 6300 | 2.2 | 16.3 | 23.5 | 29.1 | 33.6 | 33.9 | 35.2 | 32.9 | 31.5 | 23.1 | 13.3 | 3.3 | 0. |
| 8000 | | | 8.0 | 14.6 | 19.0 | 19.6 | 20.5 | 15.8 | 13.3 | 4.1 | | | 0. |
| 10000 | | | | | 1.1 | 1.1 | 1.0 | | | | | | 0. |
| 12500 | | | | | | | | | | | | | 0. |
| 16000 | | | | | | | | | | | | | 0. |
| OVERALL CALCULATED | 69.0 | 73.2 | 75.9 | 76.5 | 78.5 | 80.2 | 81.7 | 82.8 | 85.4 | 88.1 | 89.5 | 88.7 | 84.5 |
| PNUB | 73.4 | 78.8 | 82.1 | 82.2 | 84.9 | 86.5 | 88.3 | 88.7 | 90.9 | 92.0 | 91.4 | 89.9 | 81.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 767 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL - 33m²(513in²) SIZE

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 3 DAY 26 HR. 10.1

| NO EGA | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. |
| ROG. NO. 0. | (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.) |
| RADIAL 40. FT. | 78.6 | 88.7 | 35.7 | 37.2 | 89.0 | 88.7 | 89.0 | 88.5 | 89.7 | 89.7 | 92.0 | 96.4 | 96.1 | 98.7 | | | 133.5 |
| VEHICLE CELL41 | 77.6 | 82.6 | 84.4 | 85.9 | 87.5 | 89.1 | 89.5 | 89.7 | 86.4 | 87.7 | 87.7 | 97.1 | 98.6 | 100.1 | | | 133.9 |
| CONFIG NCS4 | 80.3 | 81.5 | 83.3 | 83.8 | 85.0 | 85.4 | 85.0 | 85.5 | 87.4 | 87.4 | 87.5 | 98.2 | 99.6 | 102.2 | | | 136.7 |
| LUC C41 ANECH CH | 79.3 | 83.3 | 34.8 | 34.6 | 85.7 | 87.3 | 89.2 | 90.1 | 92.3 | 98.2 | 98.2 | 104.6 | 106.8 | 106.3 | | | 140.9 |
| DATE 06-10-76 | 81.2 | 85.4 | 34.2 | 36.2 | 88.1 | 89.2 | 90.3 | 91.5 | 94.9 | 100.3 | 106.2 | 109.1 | 109.7 | | | | 142.7 |
| RUN CONF7HIGHFLW | 83.4 | 85.2 | 37.0 | 36.8 | 88.1 | 89.5 | 90.6 | 92.5 | 96.5 | 103.0 | 108.7 | 110.7 | 110.5 | | | | 144.4 |
| TAPE X07680 | 83.5 | 84.5 | 86.5 | 87.3 | 88.4 | 90.5 | 91.7 | 93.3 | 97.8 | 104.6 | 110.1 | 111.5 | 111.3 | | | | 145.4 |
| BAR 29.4 HG | 84.9 | 86.6 | 37.1 | 38.7 | 90.0 | 91.4 | 92.8 | 94.7 | 98.6 | 104.5 | 110.4 | 112.9 | 111.9 | | | | 146.2 |
| (9212. N/M2) | 86.6 | 87.9 | 38.7 | 39.9 | 91.3 | 92.9 | 94.3 | 95.9 | 99.9 | 105.2 | 109.9 | 112.6 | 112.7 | | | | 146.3 |
| TAMB 70. DEG F | 90.0 | 90.7 | 91.5 | 91.5 | 92.1 | 94.0 | 95.1 | 97.0 | 100.0 | 105.3 | 108.8 | 111.4 | 112.2 | | | | 146.5 |
| (294. DEG K) | 87.8 | 90.1 | 91.5 | 91.5 | 92.5 | 94.6 | 95.7 | 97.9 | 100.6 | 105.4 | 107.9 | 111.0 | 110.8 | | | | 144.2 |
| TWET 63. DEG F | 87.6 | 90.4 | 91.5 | 91.5 | 93.1 | 95.2 | 95.6 | 97.5 | 100.9 | 105.3 | 106.0 | 109.6 | 109.9 | | | | 145.1 |
| (290. DEG K) | 88.2 | 90.0 | 91.5 | 91.5 | 93.1 | 94.5 | 96.4 | 98.0 | 101.2 | 105.1 | 104.8 | 107.7 | 108.0 | | | | 143.1 |
| HACT12.59 GM/M3 | 88.3 | 89.6 | 91.3 | 92.1 | 93.4 | 94.3 | 96.5 | 98.1 | 101.6 | 103.7 | 104.6 | 106.3 | 106.6 | | | | 142.4 |
| (.01259 KG/M3) | 88.8 | 90.8 | 91.1 | 91.6 | 93.0 | 94.3 | 96.2 | 98.3 | 101.8 | 103.7 | 103.6 | 105.8 | 105.8 | | | | 142.1 |
| FREQ. SHIFT | 87.8 | 89.3 | 90.6 | 91.1 | 92.7 | 93.8 | 96.2 | 98.6 | 100.6 | 102.2 | 102.4 | 104.8 | 103.3 | | | | 141.2 |
| JET 0 | 87.6 | 89.5 | 90.5 | 91.3 | 92.8 | 94.5 | 96.1 | 97.5 | 100.0 | 100.8 | 101.3 | 103.7 | 103.2 | | | | 140.4 |
| DIAMETER RATIO | 87.5 | 89.0 | 89.8 | 90.8 | 92.7 | 94.5 | 96.7 | 97.3 | 100.1 | 99.9 | 100.4 | 103.3 | 103.5 | | | | 140.0 |
| DF/DM 1.00 | 86.3 | 87.6 | 88.4 | 90.2 | 92.5 | 94.3 | 96.5 | 99.7 | 99.5 | 99.5 | 102.6 | 103.1 | 103.1 | | | | 139.4 |
| 10000 | 84.4 | 88.0 | 88.4 | 89.9 | 92.4 | 92.8 | 94.9 | 96.4 | 98.6 | 98.3 | 97.5 | 102.3 | 102.5 | | | | 138.2 |
| 12500 | 82.3 | 86.1 | 37.0 | 38.4 | 90.2 | 91.8 | 94.2 | 93.6 | 96.5 | 96.4 | 95.8 | 100.4 | 101.6 | | | | 137.7 |
| 16000 | 81.2 | 84.4 | 35.1 | 37.6 | 89.3 | 89.7 | 92.8 | 92.1 | 95.0 | 94.2 | 94.5 | 99.5 | 99.4 | | | | 135.1 |
| 20000 | 78.7 | 81.5 | 83.1 | 84.2 | 88.0 | 87.6 | 90.7 | 89.1 | 92.4 | 89.9 | 89.8 | 93.7 | 96.4 | | | | 133.0 |
| 25000 | 76.5 | 79.8 | 80.8 | 81.5 | 84.3 | 84.5 | 85.5 | 86.7 | 89.8 | 86.4 | 87.2 | 88.3 | 91.9 | | | | 132.9 |
| 31500 | 75.1 | 78.7 | 79.9 | 80.9 | 82.9 | 82.6 | 84.5 | 83.6 | 86.0 | 82.8 | 83.0 | 88.4 | 89.0 | | | | 130.8 |
| 40000 | 71.3 | 75.0 | 77.9 | 79.1 | 79.4 | 79.5 | 80.7 | 78.9 | 81.2 | 78.8 | 79.1 | 82.5 | 85.2 | | | | 131.7 |
| 50000 | 66.5 | 70.5 | 73.8 | 74.3 | 74.4 | 74.9 | 76.0 | 73.2 | 74.3 | 72.1 | 72.7 | 75.4 | 77.7 | | | | 136.4 |
| 63000 | 61.6 | 65.2 | 69.6 | 69.8 | 68.5 | 70.4 | 70.5 | 68.8 | 68.7 | 66.4 | 66.6 | 67.7 | 70.7 | | | | 156.3 |
| 80000 | 58.3 | 61.2 | 67.5 | 64.3 | 63.2 | 64.1 | 67.2 | 61.2 | 62.8 | 62.6 | 60.9 | 63.2 | 66.6 | | | | |
| OVERALL MEASURED | 99.5 | 101.7 | 102.5 | 103.3 | 104.9 | 106.2 | 107.9 | 109.3 | 112.4 | 115.8 | 119.0 | 121.6 | 121.7 | | | | |
| OVERALL CALCULATED | 112.3 | 114.5 | 115.5 | 116.5 | 117.5 | 118.6 | 120.3 | 122.2 | 125.2 | 127.8 | 129.3 | 131.8 | 131.9 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 768 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

| RDG. NO. | NO EGA | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | INLET IN DEGREES (AND RADIAN) | | | | | C. | D. | PWL |
|----------|--------|-------|--|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|-----|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | | |
| 63 | 81.1 | 85.2 | 86.7 | 86.5 | 87.6 | 89.2 | 91.1 | 97.0 | 94.2 | 100.0 | 106.4 | 108.6 | 110.2 | 154.2 | |
| 80 | 85.3 | 87.0 | 88.8 | 88.6 | 89.9 | 91.3 | 92.4 | 94.3 | 98.3 | 104.9 | 110.6 | 112.5 | 112.3 | 156.0 | |
| 100 | 85.4 | 86.4 | 88.4 | 88.2 | 89.3 | 92.4 | 93.5 | 95.2 | 99.6 | 106.5 | 111.9 | 113.3 | 113.1 | 157.7 | |
| 125 | 86.7 | 88.5 | 89.0 | 90.5 | 91.9 | 93.2 | 94.6 | 96.5 | 102.5 | 106.3 | 112.3 | 114.7 | 113.7 | 159.5 | |
| 160 | 88.5 | 89.7 | 90.5 | 91.8 | 93.1 | 94.7 | 96.1 | 97.8 | 101.8 | 107.1 | 111.8 | 114.5 | 114.5 | 159.6 | |
| 200 | 91.8 | 92.6 | 93.3 | 93.4 | 94.0 | 95.8 | 97.0 | 98.9 | 101.8 | 107.2 | 110.6 | 113.3 | 114.1 | 159.0 | |
| 250 | 89.6 | 91.9 | 93.7 | 93.7 | 94.3 | 96.4 | 97.6 | 99.7 | 102.7 | 107.3 | 109.7 | 112.9 | 112.7 | 158.4 | |
| 315 | 89.5 | 92.3 | 92.5 | 93.3 | 94.9 | 97.0 | 97.4 | 99.3 | 102.8 | 107.1 | 107.8 | 111.5 | 111.8 | 157.5 | |
| 400 | 90.0 | 91.8 | 93.2 | 93.4 | 95.0 | 96.3 | 98.2 | 99.9 | 103.1 | 106.9 | 106.6 | 109.6 | 109.8 | 156.5 | |
| 500 | 90.2 | 91.5 | 93.2 | 94.0 | 94.8 | 96.2 | 98.3 | 100.0 | 103.5 | 105.6 | 106.5 | 108.2 | 108.5 | 155.7 | |
| 630 | 90.7 | 92.7 | 93.0 | 93.5 | 95.3 | 96.2 | 98.1 | 100.3 | 103.7 | 105.6 | 105.5 | 107.7 | 107.7 | 155.4 | |
| 800 | 89.7 | 91.3 | 92.6 | 93.1 | 94.7 | 95.8 | 98.2 | 100.6 | 102.6 | 104.2 | 104.4 | 106.8 | 105.8 | 154.5 | |
| 1000 | 89.6 | 91.4 | 92.5 | 93.2 | 94.8 | 96.4 | 98.1 | 99.5 | 102.0 | 102.8 | 103.3 | 105.7 | 105.2 | 153.7 | |
| 1250 | 89.5 | 91.1 | 91.9 | 92.9 | 94.7 | 96.6 | 98.7 | 96.6 | 98.7 | 102.2 | 102.4 | 105.8 | 105.6 | 153.7 | |
| 1600 | 88.5 | 89.8 | 90.6 | 92.4 | 94.7 | 96.6 | 98.7 | 99.1 | 101.9 | 101.8 | 101.2 | 104.8 | 105.3 | 153.3 | |
| 2000 | 86.9 | 90.5 | 90.8 | 92.3 | 94.9 | 95.2 | 97.4 | 98.8 | 101.1 | 100.7 | 99.9 | 104.8 | 105.0 | 152.7 | |
| 2500 | 85.1 | 88.9 | 89.8 | 91.2 | 93.0 | 94.6 | 97.0 | 96.4 | 99.3 | 99.2 | 98.6 | 103.2 | 104.4 | 151.5 | |
| 3150 | 84.5 | 87.8 | 88.5 | 90.9 | 92.7 | 93.1 | 96.2 | 95.5 | 99.0 | 97.5 | 97.9 | 102.9 | 103.3 | 151.3 | |
| 4000 | 82.7 | 85.5 | 87.2 | 88.3 | 92.1 | 91.6 | 94.8 | 93.1 | 96.4 | 94.0 | 93.9 | 97.8 | 100.4 | 148.4 | |
| 5000 | 81.9 | 85.2 | 86.1 | 86.9 | 89.6 | 89.8 | 90.8 | 92.0 | 95.1 | 91.8 | 92.6 | 93.6 | 97.2 | 146.3 | |
| 6300 | 82.0 | 85.7 | 86.9 | 87.8 | 89.8 | 89.5 | 91.5 | 90.6 | 92.9 | 89.8 | 90.0 | 95.3 | 96.5 | 146.2 | |
| 8000 | 80.6 | 84.2 | 87.2 | 88.4 | 88.7 | 88.7 | 90.0 | 88.1 | 93.4 | 88.1 | 88.4 | 91.7 | 94.5 | 145.4 | |
| 10000 | 78.8 | 82.8 | 86.1 | 87.1 | 86.7 | 87.3 | 88.3 | 85.5 | 85.6 | 84.4 | 85.0 | 87.7 | 90.0 | 144.1 | |
| 12500 | 78.4 | 82.0 | 86.4 | 86.6 | 85.3 | 87.2 | 87.3 | 85.6 | 85.4 | 83.1 | 83.4 | 84.5 | 87.5 | 145.0 | |
| 16000 | 81.4 | 84.3 | 90.6 | 87.4 | 86.3 | 87.2 | 90.4 | 84.4 | 85.9 | 85.8 | 84.0 | 86.3 | 89.7 | 149.7 | |
| PH08 | 101.5 | 103.6 | 104.7 | 105.4 | 106.9 | 108.3 | 110.1 | 111.3 | 114.4 | 117.6 | 120.8 | 123.4 | 123.4 | 169.4 | |
| | 111.6 | 114.3 | 115.4 | 116.7 | 118.5 | 119.5 | 121.6 | 121.9 | 125.0 | 125.7 | 126.7 | 130.3 | 130.8 | | |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 768 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | |
| 50 | (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) |
| 63 | 54.7 | 58.6 | 61.1 | 61.7 | 63.2 | 64.9 | 66.7 | 67.2 | 68.6 | 73.4 | 78.3 | 78.2 | 78.3 |
| 80 | 56.9 | 60.3 | 63.2 | 63.7 | 65.5 | 66.7 | 67.7 | 68.5 | 71.2 | 75.4 | 79.8 | 80.5 | 77.5 |
| 100 | 56.9 | 60.3 | 63.2 | 63.7 | 65.5 | 67.0 | 68.0 | 69.4 | 72.7 | 78.1 | 82.2 | 81.9 | 78.1 |
| 125 | 58.1 | 61.5 | 63.2 | 65.5 | 67.2 | 68.7 | 70.0 | 71.5 | 74.7 | 79.4 | 83.5 | 82.6 | 78.7 |
| 160 | 59.7 | 62.7 | 64.6 | 66.6 | 68.4 | 70.1 | 71.4 | 72.6 | 75.8 | 80.0 | 83.0 | 83.3 | 79.5 |
| 200 | 62.8 | 65.3 | 67.3 | 68.1 | 69.1 | 71.1 | 72.1 | 73.6 | 75.8 | 79.9 | 81.7 | 81.9 | 78.7 |
| 250 | 60.4 | 64.4 | 67.4 | 68.2 | 69.3 | 71.5 | 72.5 | 74.2 | 76.4 | 79.8 | 80.5 | 81.1 | 76.8 |
| 315 | 59.9 | 64.5 | 66.0 | 67.6 | 69.7 | 71.9 | 72.2 | 73.6 | 76.3 | 79.4 | 78.3 | 79.3 | 75.3 |
| 400 | 60.1 | 63.7 | 66.5 | 67.4 | 69.4 | 71.0 | 72.7 | 73.9 | 76.3 | 78.8 | 76.6 | 76.8 | 72.5 |
| 500 | 59.6 | 62.9 | 66.0 | 67.6 | 69.0 | 70.5 | 72.5 | 73.6 | 76.2 | 77.0 | 76.0 | 74.7 | 70.1 |
| 630 | 59.5 | 63.6 | 65.3 | 66.7 | 69.0 | 70.1 | 71.8 | 73.4 | 76.0 | 76.4 | 74.3 | 73.3 | 68.0 |
| 800 | 57.6 | 61.4 | 64.2 | 65.7 | 67.8 | 69.1 | 71.3 | 73.2 | 74.2 | 74.3 | 72.2 | 71.2 | 64.4 |
| 1000 | 56.4 | 60.6 | 63.3 | 65.1 | 67.2 | 69.0 | 70.5 | 71.3 | 72.8 | 72.0 | 70.1 | 68.7 | 61.7 |
| 1250 | 55.0 | 59.2 | 61.7 | 63.8 | 66.3 | 68.4 | 70.3 | 72.0 | 72.0 | 70.1 | 67.9 | 67.1 | 59.5 |
| 1600 | 52.0 | 56.3 | 59.0 | 62.0 | 65.0 | 67.1 | 69.0 | 68.8 | 70.3 | 68.2 | 64.7 | 63.6 | 55.5 |
| 2000 | 48.1 | 55.0 | 57.6 | 60.4 | 63.7 | 64.3 | 66.2 | 66.9 | 67.8 | 65.3 | 61.1 | 60.5 | 50.8 |
| 2500 | 45.0 | 50.6 | 54.0 | 57.1 | 59.7 | 61.6 | 63.7 | 62.2 | 63.5 | 61.0 | 56.5 | 54.6 | 43.7 |
| 3150 | 37.0 | 45.1 | 48.8 | 53.1 | 56.0 | 56.7 | 59.5 | 57.7 | 59.3 | 54.8 | 50.3 | 47.3 | 32.3 |
| 4000 | 27.1 | 36.1 | 41.6 | 45.1 | 50.2 | 52.9 | 49.9 | 50.9 | 44.5 | 38.2 | 31.7 | 13.9 | 1.7 |
| 5000 | 21.6 | 31.8 | 37.1 | 40.5 | 44.7 | 45.4 | 46.0 | 45.7 | 46.1 | 38.4 | 32.3 | 21.5 | 1.7 |
| 6300 | 8.0 | 20.9 | 27.8 | 32.2 | 36.1 | 36.5 | 37.8 | 35.0 | 33.8 | 25.0 | 15.9 | 5.4 | |
| 8000 | | 1.9 | 12.7 | 18.7 | 21.6 | 22.4 | 22.8 | 18.4 | 15.9 | 5.7 | | | |
| 10000 | | | | | 0.8 | 2.5 | 2.4 | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.6 | 74.3 | 76.6 | 78.1 | 79.9 | 81.7 | 83.0 | 84.2 | 86.6 | 89.6 | 91.7 | 91.6 | 87.8 |
| | 74.8 | 79.3 | 82.0 | 84.1 | 86.7 | 88.2 | 90.0 | 90.4 | 92.3 | 93.8 | 93.7 | 93.5 | 88.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 768 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| RDG. NO. | NO. OF | RADIOAL | 40. FT. | MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 26 HR. 10.1 | | PWL | | | | | | |
|--------------------|--------|---------|---------|--|--|--|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. | ANGLES FROM INLET IN DEGREES (AND RADIANs) | 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. | ANGLE | | ANGLE | | | | | |
| 50 | 81.1 | 90.4 | 55.2 | 59.5 | 91.0 | 90.9 | 91.3 | 91.0 | 92.2 | 94.0 | 98.2 | 98.1 | 101.2 | 135.6 |
| 60 | 79.3 | 84.6 | 55.9 | 55.7 | 86.2 | 86.5 | 86.8 | 85.0 | 89.7 | 90.2 | 99.6 | 101.3 | 102.6 | 136.4 |
| 80 | 79.4 | 81.9 | 55.9 | 55.7 | 86.5 | 86.9 | 86.8 | 85.0 | 89.7 | 90.2 | 99.6 | 101.3 | 102.6 | 136.4 |
| 100 | 82.3 | 83.0 | 54.0 | 55.3 | 86.7 | 87.3 | 88.7 | 90.1 | 94.0 | 98.4 | 103.1 | 107.0 | 108.3 | 140.8 |
| 1250 | 81.6 | 85.3 | 55.8 | 86.4 | 87.5 | 88.3 | 91.5 | 91.9 | 94.6 | 100.2 | 107.1 | 109.0 | 110.1 | 143.0 |
| 1600 | 82.9 | 87.2 | 57.7 | 87.7 | 90.1 | 91.2 | 92.1 | 93.5 | 96.4 | 102.8 | 109.2 | 111.6 | 112.7 | 145.4 |
| 2000 | 84.9 | 87.0 | 57.0 | 88.5 | 89.8 | 91.0 | 92.3 | 94.5 | 98.2 | 105.3 | 111.7 | 113.7 | 113.0 | 147.1 |
| 2500 | 85.5 | 86.8 | 58.3 | 88.8 | 90.2 | 92.3 | 93.9 | 95.1 | 99.3 | 107.4 | 113.1 | 115.0 | 113.3 | 148.3 |
| 3150 | 86.9 | 88.4 | 59.1 | 90.2 | 92.0 | 93.1 | 95.0 | 96.4 | 100.9 | 107.5 | 114.2 | 116.1 | 114.1 | 149.3 |
| 4000 | 89.1 | 89.7 | 70.9 | 91.9 | 93.5 | 94.4 | 96.5 | 97.7 | 102.4 | 108.7 | 115.4 | 116.6 | 114.9 | 150.2 |
| 5000 | 92.7 | 93.7 | 73.7 | 94.3 | 94.9 | 96.0 | 97.1 | 98.8 | 103.2 | 108.8 | 114.5 | 115.9 | 115.5 | 149.9 |
| 6300 | 91.5 | 93.6 | 74.6 | 94.6 | 95.5 | 97.1 | 98.2 | 100.4 | 103.8 | 108.7 | 113.1 | 116.3 | 114.8 | 149.6 |
| 8000 | 91.1 | 93.2 | 72.9 | 94.0 | 95.3 | 97.2 | 97.6 | 99.5 | 104.4 | 107.8 | 112.0 | 115.6 | 114.4 | 148.9 |
| 10000 | 95.7 | 95.0 | 94.7 | 94.8 | 95.9 | 97.2 | 98.6 | 101.0 | 104.0 | 107.6 | 111.0 | 114.2 | 112.2 | 147.9 |
| 12500 | 100.3 | 99.1 | 98.1 | 96.1 | 96.0 | 97.3 | 99.0 | 100.6 | 104.6 | 106.7 | 110.1 | 113.0 | 110.6 | 147.2 |
| 16000 | 99.3 | 100.2 | 100.6 | 100.3 | 93.7 | 97.3 | 98.7 | 100.8 | 104.8 | 106.4 | 109.9 | 111.8 | 108.8 | 146.9 |
| 20000 | 97.0 | 98.1 | 99.1 | 100.1 | 101.0 | 98.8 | 98.5 | 101.1 | 103.6 | 106.2 | 109.4 | 109.5 | 106.6 | 146.0 |
| 25000 | 94.6 | 96.2 | 97.5 | 98.5 | 99.3 | 100.7 | 99.8 | 101.3 | 103.5 | 104.6 | 108.5 | 108.7 | 106.5 | 145.4 |
| 31500 | 93.0 | 94.5 | 95.3 | 96.8 | 98.2 | 100.0 | 102.4 | 101.6 | 103.6 | 103.7 | 107.6 | 107.8 | 106.8 | 145.1 |
| 40000 | 91.3 | 93.1 | 93.4 | 95.4 | 97.7 | 99.3 | 101.2 | 101.9 | 103.2 | 103.3 | 106.2 | 106.8 | 105.3 | 144.5 |
| 50000 | 88.9 | 93.0 | 93.1 | 94.6 | 97.2 | 97.3 | 99.9 | 101.1 | 103.1 | 102.3 | 105.0 | 106.1 | 104.5 | 143.9 |
| 63000 | 86.1 | 90.3 | 91.2 | 92.7 | 94.7 | 95.8 | 98.7 | 98.6 | 100.7 | 99.9 | 103.3 | 104.4 | 103.3 | 142.5 |
| 80000 | 84.9 | 88.4 | 89.6 | 91.6 | 93.6 | 94.4 | 97.6 | 96.1 | 99.6 | 98.4 | 101.5 | 103.3 | 102.4 | 141.9 |
| OVERALL MEASURED | 81.7 | 85.5 | 86.9 | 88.2 | 92.2 | 91.6 | 95.7 | 93.6 | 96.9 | 94.7 | 96.0 | 98.7 | 99.1 | 139.6 |
| OVERALL CALC LATED | 78.3 | 83.1 | 84.0 | 85.8 | 88.3 | 88.2 | 90.3 | 90.4 | 94.0 | 90.9 | 94.5 | 94.5 | 95.9 | 137.7 |
| PNDB | 76.1 | 81.0 | 82.9 | 84.4 | 86.4 | 85.8 | 89.0 | 87.9 | 90.5 | 87.1 | 91.0 | 95.1 | 93.6 | 137.7 |
| | 72.1 | 76.7 | 79.1 | 80.9 | 82.2 | 82.0 | 85.2 | 82.9 | 85.7 | 84.1 | 87.4 | 90.0 | 89.2 | 136.7 |
| | 66.8 | 71.5 | 75.0 | 75.5 | 75.4 | 76.4 | 80.0 | 76.5 | 79.3 | 77.1 | 82.0 | 84.7 | 82.5 | 135.1 |
| | 61.3 | 65.2 | 69.4 | 69.3 | 69.0 | 70.2 | 74.0 | 70.8 | 73.2 | 70.9 | 75.6 | 79.2 | 76.4 | 135.4 |
| | 58.0 | 61.5 | 64.6 | 63.4 | 64.6 | 64.6 | 73.2 | 65.5 | 68.5 | 65.6 | 72.4 | 73.9 | 72.1 | 140.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 769 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTIS) PROC. DATE - MONTH 8 DAY 25 HR. 21.4

| RDG. NO. | NO. EGA | C. | RADIOAL 150. FT. | C. (46. M) | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT12 | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | C. | D. | C. | PWL | | | |
|--------------------|---------|-------|------------------|------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---|------|------|----|----|----|-----|--|--|--|
| | | | | | | | | | | | | | | | | 90. | 110. | 130. | | | | | | | |
| 59 | 83.4 | 87.2 | 88.7 | 88.2 | 89.3 | 90.2 | 93.3 | 93.7 | 95.4 | 102.0 | 108.9 | 110.9 | 111.9 | 156.3 | | | | | | | | | | | |
| 63 | 84.7 | 89.0 | 87.5 | 89.6 | 91.9 | 93.0 | 93.9 | 95.3 | 98.3 | 104.6 | 111.0 | 113.5 | 114.5 | 158.7 | | | | | | | | | | | |
| 80 | 86.8 | 88.8 | 90.8 | 90.3 | 91.7 | 92.8 | 94.2 | 96.3 | 100.1 | 107.1 | 113.6 | 115.5 | 114.8 | 163.4 | | | | | | | | | | | |
| 100 | 87.4 | 88.6 | 90.1 | 90.7 | 92.0 | 94.1 | 95.8 | 96.9 | 101.1 | 109.2 | 114.9 | 116.8 | 115.1 | 161.6 | | | | | | | | | | | |
| 125 | 88.7 | 90.2 | 91.0 | 92.0 | 93.9 | 95.0 | 96.9 | 98.3 | 102.7 | 109.3 | 115.0 | 117.9 | 116.0 | 162.6 | | | | | | | | | | | |
| 160 | 91.0 | 91.5 | 92.8 | 93.8 | 95.4 | 96.2 | 98.4 | 99.5 | 104.3 | 110.6 | 117.3 | 118.5 | 116.7 | 163.6 | | | | | | | | | | | |
| 200 | 94.5 | 95.6 | 95.6 | 96.1 | 96.7 | 97.8 | 99.0 | 100.6 | 105.1 | 110.7 | 116.4 | 117.8 | 117.3 | 163.2 | | | | | | | | | | | |
| 250 | 93.4 | 95.4 | 96.4 | 96.5 | 97.3 | 98.9 | 100.1 | 102.2 | 105.7 | 110.5 | 115.0 | 119.1 | 116.7 | 162.3 | | | | | | | | | | | |
| 315 | 93.0 | 95.0 | 94.8 | 95.8 | 97.2 | 99.0 | 99.4 | 101.3 | 106.3 | 109.6 | 113.8 | 117.5 | 116.3 | 161.2 | | | | | | | | | | | |
| 400 | 97.5 | 96.8 | 96.6 | 96.6 | 97.7 | 99.1 | 100.5 | 102.9 | 105.8 | 109.4 | 112.9 | 116.1 | 114.1 | 160.5 | | | | | | | | | | | |
| 500 | 102.2 | 101.0 | 100.0 | 98.0 | 97.8 | 99.2 | 100.8 | 102.5 | 106.5 | 108.6 | 112.0 | 114.9 | 112.5 | 160.2 | | | | | | | | | | | |
| 630 | 101.2 | 102.7 | 102.5 | 102.3 | 100.6 | 99.2 | 100.6 | 102.8 | 106.7 | 108.3 | 111.8 | 113.7 | 110.7 | 159.3 | | | | | | | | | | | |
| 800 | 99.0 | 100.0 | 101.1 | 102.1 | 102.9 | 100.8 | 100.4 | 103.1 | 105.6 | 108.2 | 111.4 | 111.5 | 108.5 | 158.7 | | | | | | | | | | | |
| 1000 | 96.6 | 98.2 | 99.5 | 100.5 | 101.3 | 102.7 | 101.8 | 103.2 | 105.7 | 108.6 | 110.5 | 110.7 | 108.4 | 157.8 | | | | | | | | | | | |
| 1250 | 95.0 | 96.6 | 97.4 | 98.9 | 100.2 | 102.3 | 101.5 | 104.5 | 103.7 | 105.7 | 105.8 | 109.7 | 108.9 | 157.2 | | | | | | | | | | | |
| 1600 | 93.5 | 95.3 | 95.6 | 97.6 | 100.0 | 101.6 | 103.5 | 104.1 | 105.4 | 105.5 | 108.4 | 109.1 | 107.6 | 155.8 | | | | | | | | | | | |
| 2000 | 91.4 | 95.5 | 95.6 | 97.1 | 99.6 | 99.7 | 102.4 | 103.6 | 105.6 | 104.7 | 107.4 | 108.5 | 107.0 | 152.9 | | | | | | | | | | | |
| 2500 | 88.9 | 93.1 | 94.0 | 95.5 | 97.5 | 98.6 | 101.5 | 101.4 | 103.5 | 102.7 | 106.1 | 107.2 | 106.1 | 151.0 | | | | | | | | | | | |
| 3150 | 88.3 | 91.8 | 93.0 | 94.9 | 97.0 | 97.8 | 101.0 | 99.5 | 103.0 | 101.8 | 104.9 | 106.6 | 105.8 | 150.0 | | | | | | | | | | | |
| 4000 | 85.7 | 89.5 | 90.9 | 92.3 | 96.3 | 95.6 | 99.8 | 97.6 | 100.9 | 98.7 | 100.1 | 102.8 | 103.2 | 148.4 | | | | | | | | | | | |
| 5000 | 83.6 | 88.4 | 89.3 | 91.1 | 93.6 | 93.6 | 95.6 | 95.8 | 99.4 | 96.3 | 99.8 | 99.9 | 101.2 | 148.7 | | | | | | | | | | | |
| 6300 | 83.0 | 87.9 | 89.9 | 91.3 | 93.3 | 92.8 | 96.0 | 94.8 | 97.4 | 94.0 | 98.0 | 102.1 | 100.5 | 154.3 | | | | | | | | | | | |
| 8000 | 81.4 | 86.0 | 89.4 | 90.2 | 91.5 | 91.2 | 94.5 | 92.1 | 94.9 | 93.4 | 96.6 | 99.2 | 98.5 | 148.4 | | | | | | | | | | | |
| 10000 | 79.1 | 83.8 | 87.4 | 87.9 | 87.7 | 88.8 | 92.3 | 88.8 | 91.6 | 89.4 | 94.3 | 97.0 | 94.8 | 154.3 | | | | | | | | | | | |
| 12500 | 78.1 | 82.0 | 86.2 | 86.1 | 85.8 | 87.0 | 90.8 | 87.6 | 89.9 | 87.6 | 92.6 | 96.0 | 93.2 | 173.5 | | | | | | | | | | | |
| 16000 | 81.1 | 84.6 | 90.4 | 87.7 | 86.6 | 87.7 | 96.4 | 88.6 | 91.6 | 88.8 | 95.5 | 97.0 | 95.2 | | | | | | | | | | | | |
| OVERALL CALCULATED | 158.3 | 109.4 | 109.8 | 110.3 | 111.3 | 111.9 | 113.7 | 114.5 | 117.6 | 120.8 | 125.7 | 127.7 | 126.4 | | | | | | | | | | | | |
| PNCB | 117.0 | 119.0 | 119.7 | 120.9 | 122.4 | 123.3 | 125.7 | 125.8 | 128.5 | 129.2 | 133.1 | 134.8 | 133.7 | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 769 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (0.77) | (0.87) | (1.05) | (1.22) | (1.42) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| SIDELINE 2400 FT.
(731.52 M) | 55.2 | 60.6 | 63.1 | 63.4 | 64.9 | 65.9 | 68.9 | 68.9 | 70.9 | 75.4 | 80.8 | 80.4 | 80.5 |
| NFA (1. RPM) | 58.4 | 62.1 | 65.2 | 65.4 | 67.2 | 68.5 | 69.7 | 71.4 | 74.4 | 80.4 | 85.2 | 84.9 | 80.6 |
| NFK (0. RAD/SEC) | 60.1 | 63.3 | 65.2 | 67.0 | 69.2 | 70.5 | 72.2 | 73.2 | 76.9 | 82.4 | 87.4 | 86.1 | 80.7 |
| NFD (7500. RPM) | 62.2 | 64.4 | 66.8 | 68.6 | 70.6 | 71.6 | 73.6 | 74.4 | 78.3 | 83.5 | 88.5 | 87.3 | 81.8 |
| AIRFLOW RATIO | 65.6 | 68.3 | 69.5 | 70.8 | 71.8 | 73.1 | 74.1 | 75.3 | 79.0 | 83.4 | 87.4 | 86.4 | 80.8 |
| WF/WM 4.63 | 64.2 | 67.9 | 70.2 | 71.0 | 72.3 | 74.0 | 75.0 | 76.7 | 79.4 | 83.0 | 85.7 | 86.4 | 79.8 |
| VEHICLE | 63.4 | 67.3 | 68.3 | 70.1 | 71.9 | 73.9 | 74.2 | 75.6 | 79.8 | 81.9 | 84.3 | 85.3 | 76.7 |
| CONFIG | 67.6 | 68.7 | 69.8 | 70.6 | 72.2 | 73.7 | 74.9 | 76.9 | 79.0 | 81.3 | 82.9 | 83.3 | 74.1 |
| LOC C41 ANECHOIC | 71.6 | 72.4 | 72.7 | 71.6 | 72.0 | 73.5 | 75.0 | 76.1 | 79.2 | 80.0 | 81.5 | 81.5 | 74.1 |
| DATE 06-10-76 | 70.0 | 73.6 | 74.8 | 75.4 | 76.3 | 75.1 | 75.5 | 75.7 | 77.2 | 78.3 | 79.2 | 76.0 | 67.1 |
| RUN CONF7HIGHFLW | 66.9 | 70.2 | 72.7 | 74.7 | 76.0 | 74.3 | 74.6 | 74.6 | 77.2 | 78.3 | 75.8 | 73.7 | 64.9 |
| TAPE X07690 | 63.4 | 67.4 | 70.3 | 72.3 | 73.7 | 75.3 | 74.2 | 75.1 | 76.3 | 75.8 | 77.3 | 73.7 | 64.9 |
| FAN TIP SPEED | 60.5 | 64.7 | 67.2 | 69.8 | 71.8 | 73.9 | 76.0 | 74.6 | 75.5 | 73.9 | 75.2 | 71.1 | 62.8 |
| FT/SEC | 57.0 | 61.8 | 64.0 | 67.3 | 70.3 | 72.1 | 73.8 | 73.8 | 72.0 | 72.0 | 72.0 | 67.9 | 57.8 |
| | 52.6 | 60.0 | 62.3 | 65.2 | 68.5 | 68.8 | 71.2 | 71.7 | 72.3 | 69.3 | 68.6 | 64.3 | 52.8 |
| | 46.7 | 54.9 | 58.3 | 61.3 | 64.2 | 65.6 | 68.2 | 67.2 | 67.8 | 64.5 | 64.0 | 58.6 | 43.5 |
| | 40.7 | 49.1 | 53.3 | 57.1 | 60.2 | 61.4 | 64.2 | 61.7 | 63.3 | 59.0 | 57.3 | 51.1 | 34.8 |
| | 30.1 | 40.1 | 45.3 | 49.1 | 54.4 | 54.2 | 57.9 | 54.4 | 49.3 | 44.5 | 36.7 | 15.7 | 5.7 |
| | 23.3 | 35.1 | 40.3 | 44.8 | 48.7 | 49.2 | 50.7 | 49.4 | 50.3 | 42.9 | 39.5 | 27.8 | 12.1 |
| | 9.0 | 23.1 | 30.8 | 35.7 | 39.6 | 39.7 | 42.3 | 39.3 | 38.3 | 29.2 | 23.9 | 12.1 | |
| | 3.6 | 14.9 | 20.4 | 24.3 | 24.9 | 27.3 | 24.9 | 22.4 | 20.4 | 11.0 | 1.5 | | |
| | 1.8 | 4.0 | 5.4 | 4.0 | 5.4 | | | | | | | | |
| | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 |
| | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |
| OVERALL CALCULATED | 77.2 | 79.9 | 81.5 | 82.7 | 83.9 | 84.8 | 85.9 | 86.9 | 89.5 | 92.6 | 96.2 | 95.8 | 90.7 |
| PWDB | 82.8 | 86.1 | 88.0 | 89.5 | 91.1 | 92.3 | 93.9 | 94.1 | 95.8 | 96.9 | 99.4 | 99.4 | 92.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 769 TEST POINT ACQUSTIC RANGE SIZE

731.5m(2400ft.) SIDELINE FULL-33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

FREQ. (C.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)(3.2)(3.4)(3.6)(3.8)(4.0) (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) (3.2) (3.4) (3.6) (3.8) (4.0) P.W

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 2. | 0. | P.W |
|----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-----|
| 30 | | 77.4 | 85.7 | 82.4 | 84.5 | 84.8 | 85.4 | 87.8 | 87.0 | 87.7 | 90.7 | 91.4 | 92.6 | 94.4 | 130.2 | | | |
| 100 | | 77.4 | 85.7 | 82.4 | 84.5 | 84.8 | 85.4 | 87.8 | 87.0 | 87.7 | 90.7 | 91.4 | 92.6 | 94.4 | 128.0 | | | |
| 125 | | 72.3 | 77.4 | 78.9 | 80.7 | 82.2 | 84.1 | 84.2 | 85.4 | 83.6 | 82.9 | 90.9 | 92.3 | 93.1 | 128.7 | | | |
| 160 | CELL41 | 73.1 | 76.2 | 78.2 | 78.2 | 79.8 | 80.2 | 80.5 | 82.0 | 83.7 | 89.0 | 91.9 | 93.4 | 95.2 | 131.7 | | | |
| 200 | NC52 | 75.5 | 76.3 | 77.5 | 79.3 | 79.7 | 80.8 | 82.2 | 84.6 | 86.8 | 89.9 | 94.1 | 97.8 | 99.0 | 133.1 | | | |
| 250 | C41 ANECH CH | 75.1 | 77.8 | 78.8 | 78.9 | 80.5 | 82.1 | 84.2 | 85.9 | 87.6 | 91.7 | 96.6 | 98.8 | 99.8 | 135.1 | | | |
| 315 | DATE G6-08-76 | 76.4 | 79.4 | 79.7 | 81.5 | 83.3 | 84.2 | 85.8 | 87.5 | 89.4 | 94.0 | 98.0 | 101.4 | 101.4 | 135.7 | | | |
| 400 | RUN CONF7HIGHFLW | 78.2 | 80.0 | 81.5 | 82.3 | 83.3 | 84.7 | 85.8 | 88.8 | 91.5 | 95.8 | 99.7 | 101.2 | 101.0 | 135.9 | | | |
| 500 | TAPE X07700 | 79.0 | 80.3 | 82.0 | 82.8 | 84.2 | 85.8 | 86.9 | 89.3 | 92.8 | 97.4 | 100.1 | 101.0 | 99.5 | 135.7 | | | |
| 630 | BAR 29.4 HG | 80.1 | 82.1 | 82.4 | 83.9 | 85.3 | 86.4 | 88.8 | 90.9 | 93.6 | 97.5 | 99.9 | 100.1 | 98.1 | 136.1 | | | |
| 800 | (99414. N/M2) | 80.9 | 82.9 | 83.9 | 84.9 | 86.8 | 88.2 | 89.5 | 91.9 | 94.7 | 98.7 | 100.2 | 99.4 | 96.9 | 135.6 | | | |
| 1000 | TAMB 64. DEG F | 82.2 | 84.0 | 85.2 | 85.8 | 87.4 | 89.0 | 89.9 | 92.5 | 98.6 | 99.3 | 97.4 | 95.5 | 135.6 | | | | |
| 1250 | (291. DEG K) | 82.3 | 83.8 | 86.3 | 86.4 | 87.2 | 89.1 | 90.4 | 93.4 | 95.8 | 98.6 | 98.6 | 97.3 | 94.3 | 135.7 | | | |
| 1600 | TWET 59. DEG F | 82.6 | 84.9 | 86.2 | 86.7 | 88.1 | 90.2 | 91.3 | 93.2 | 96.2 | 98.5 | 98.7 | 96.9 | 94.4 | 135.8 | | | |
| 2000 | (288. DEG K) | 82.7 | 85.2 | 86.5 | 86.5 | 88.6 | 89.7 | 92.1 | 94.3 | 95.7 | 98.1 | 97.3 | 96.2 | 93.0 | 135.4 | | | |
| 2500 | HACT11.34 GM/M3 | 83.0 | 85.6 | 87.6 | 87.4 | 88.7 | 89.8 | 91.5 | 94.1 | 96.3 | 96.7 | 96.4 | 95.8 | 93.8 | 135.1 | | | |
| 3150 | (.01134 KG/M3) | 83.5 | 88.0 | 89.8 | 90.1 | 91.7 | 94.5 | 93.4 | 96.1 | 96.8 | 96.4 | 96.6 | 95.8 | 95.5 | 136.4 | | | |
| 4000 | FREQ. SHIFT | 81.5 | 85.1 | 87.1 | 87.4 | 89.0 | 90.8 | 92.0 | 94.6 | 95.6 | 95.7 | 94.4 | 93.5 | 91.8 | 134.6 | | | |
| 5000 | JET 0 | 81.1 | 84.0 | 85.0 | 86.8 | 88.1 | 89.7 | 91.4 | 93.6 | 95.1 | 93.9 | 92.6 | 92.3 | 92.5 | 133.9 | | | |
| 6300 | DIAMETER RATIO | 80.5 | 84.5 | 85.3 | 86.1 | 88.2 | 90.3 | 91.4 | 93.6 | 95.1 | 93.9 | 92.6 | 92.3 | 92.5 | 133.9 | | | |
| 8000 | DF/DM 1.00 | 79.5 | 82.9 | 83.7 | 85.7 | 88.2 | 89.9 | 91.5 | 93.7 | 94.7 | 93.8 | 92.7 | 92.3 | 92.9 | 133.9 | | | |
| 10000 | | 77.4 | 82.1 | 83.4 | 84.9 | 87.9 | 88.3 | 89.9 | 92.6 | 93.9 | 93.1 | 91.0 | 91.8 | 92.8 | 133.3 | | | |
| 12500 | | 75.6 | 80.1 | 82.0 | 83.2 | 86.0 | 86.9 | 88.9 | 90.5 | 91.8 | 90.7 | 89.1 | 89.7 | 91.4 | 131.9 | | | |
| 16000 | | 74.0 | 78.5 | 79.7 | 82.4 | 84.9 | 85.5 | 87.7 | 88.9 | 90.7 | 89.7 | 87.8 | 88.1 | 90.2 | 131.4 | | | |
| 20000 | | 72.2 | 76.6 | 78.0 | 79.8 | 83.3 | 83.7 | 85.2 | 85.8 | 87.7 | 86.0 | 83.9 | 84.3 | 87.2 | 129.6 | | | |
| 25000 | | 71.1 | 75.9 | 76.6 | 78.4 | 81.1 | 81.1 | 82.8 | 82.1 | 85.1 | 82.1 | 81.6 | 80.2 | 83.0 | 128.2 | | | |
| 31500 | | 69.2 | 76.6 | 78.8 | 81.0 | 83.3 | 82.7 | 83.0 | 84.0 | 81.9 | 79.5 | 77.2 | 77.5 | 79.2 | 130.3 | | | |
| 40000 | | 66.5 | 77.4 | 79.6 | 80.1 | 82.1 | 83.6 | 83.4 | 83.1 | 80.1 | 76.5 | 73.1 | 71.9 | 74.4 | 133.0 | | | |
| 50000 | | 57.9 | 65.4 | 69.2 | 69.7 | 69.0 | 70.1 | 72.3 | 72.4 | 71.2 | 68.6 | 66.2 | 63.8 | 66.1 | 126.2 | | | |
| 63000 | | 51.7 | 57.3 | 62.1 | 61.4 | 60.4 | 61.1 | 65.0 | 63.2 | 63.3 | 60.0 | 57.0 | 56.6 | 58.1 | 124.3 | | | |
| 80000 | | 48.3 | 52.8 | 58.9 | 56.2 | 55.3 | 57.7 | 62.5 | 57.6 | 57.6 | 54.3 | 50.8 | 50.8 | 54.2 | 129.4 | | | |
| | OVERALL MEASURED | | | | | | | | | | | | | | | | | |
| | OVERALL CALCULATED | 93.7 | 96.9 | 98.2 | 99.0 | 100.7 | 102.3 | 103.4 | 105.7 | 107.4 | 109.2 | 110.3 | 110.6 | 110.1 | 148.3 | | | |
| | PNDR | 105.8 | 110.4 | 111.8 | 112.4 | 114.0 | 116.1 | 116.4 | 118.9 | 120.2 | 121.1 | 121.6 | 121.3 | 120.6 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **770** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-154cm²(23.9in²)** SIZE

PROC. DATE - MONTH 8 DAY 26 HR. 18.5

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | G. | FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. SHIFT | JET | DIAMETER RATIO | DF/DM | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | O. |
|--------------------|--------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|----------------|-------|---|-------|-------|-------|----|
| | | | | | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 76.9 | 79.7 | 80.7 | 80.7 | 82.3 | 83.9 | 86.1 | 87.7 | 89.3 | 91.3 | 93.5 | 95.7 | 97.9 | 100.6 | 103.7 | 107.2 | 111.1 | 115.4 | 120.2 | 125.0 | 130.0 | |
| 30 | 78.2 | 81.3 | 81.5 | 83.3 | 85.2 | 86.0 | 87.7 | 89.3 | 91.3 | 93.5 | 95.7 | 97.9 | 100.6 | 103.7 | 107.2 | 111.1 | 115.4 | 120.2 | 125.0 | 130.0 | 135.0 | |
| 100 | 80.0 | 81.8 | 83.3 | 84.1 | 85.2 | 86.5 | 87.7 | 89.3 | 91.3 | 93.5 | 95.7 | 97.9 | 100.6 | 103.7 | 107.2 | 111.1 | 115.4 | 120.2 | 125.0 | 130.0 | 135.0 | |
| 125 | 82.0 | 84.0 | 84.2 | 85.8 | 87.1 | 88.2 | 89.6 | 91.4 | 93.8 | 95.5 | 97.3 | 99.3 | 101.8 | 104.9 | 108.0 | 111.2 | 114.5 | 118.0 | 121.5 | 125.0 | 130.0 | |
| 160 | 82.7 | 84.7 | 85.8 | 86.8 | 88.2 | 89.2 | 90.8 | 92.3 | 94.4 | 97.1 | 100.4 | 104.1 | 108.1 | 112.2 | 116.4 | 120.7 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | |
| 200 | 84.1 | 85.7 | 88.2 | 88.2 | 89.1 | 90.9 | 92.3 | 95.2 | 97.7 | 100.5 | 103.5 | 99.1 | 96.2 | 93.3 | 90.3 | 87.3 | 84.3 | 81.3 | 78.3 | 75.3 | 72.3 | |
| 315 | 84.5 | 86.8 | 88.0 | 88.6 | 89.9 | 92.0 | 93.2 | 95.1 | 96.0 | 97.6 | 99.1 | 100.6 | 102.0 | 103.3 | 104.6 | 105.9 | 107.2 | 108.5 | 109.8 | 111.1 | 112.4 | |
| 400 | 84.5 | 87.1 | 88.3 | 88.4 | 90.5 | 91.6 | 94.0 | 96.1 | 97.6 | 99.9 | 99.1 | 98.0 | 96.6 | 94.8 | 93.0 | 91.2 | 89.4 | 87.6 | 85.8 | 84.0 | 82.2 | |
| 500 | 84.9 | 87.4 | 89.5 | 89.2 | 90.6 | 91.7 | 93.3 | 96.0 | 98.2 | 98.5 | 98.2 | 97.7 | 96.3 | 94.6 | 92.9 | 91.2 | 89.5 | 87.8 | 86.1 | 84.4 | 82.7 | |
| 630 | 85.4 | 90.0 | 91.7 | 92.0 | 93.6 | 96.5 | 95.3 | 98.0 | 98.7 | 98.3 | 98.5 | 97.7 | 96.3 | 94.6 | 92.9 | 91.2 | 89.5 | 87.8 | 86.1 | 84.4 | 82.7 | |
| 800 | 83.5 | 87.0 | 89.1 | 89.3 | 90.9 | 92.8 | 93.9 | 96.0 | 97.6 | 97.7 | 96.3 | 95.5 | 93.8 | 92.1 | 90.4 | 88.7 | 87.0 | 85.3 | 83.6 | 81.9 | 80.2 | |
| 1000 | 83.1 | 85.9 | 87.0 | 88.2 | 90.1 | 91.7 | 93.1 | 96.2 | 97.2 | 96.3 | 95.2 | 93.9 | 93.7 | 92.4 | 90.7 | 89.0 | 87.3 | 85.6 | 83.9 | 82.2 | 80.5 | |
| 1250 | 82.5 | 86.6 | 87.4 | 88.2 | 90.2 | 92.4 | 93.5 | 95.7 | 97.2 | 96.0 | 94.7 | 94.3 | 92.6 | 90.9 | 89.2 | 87.5 | 85.8 | 84.1 | 82.4 | 80.7 | 79.0 | |
| 1600 | 81.7 | 85.1 | 85.9 | 87.9 | 90.5 | 92.1 | 93.7 | 95.9 | 96.9 | 96.0 | 94.9 | 94.6 | 92.8 | 91.1 | 89.4 | 87.7 | 86.0 | 84.3 | 82.6 | 80.9 | 79.2 | |
| 2000 | 79.9 | 84.5 | 85.9 | 87.3 | 90.4 | 90.8 | 92.4 | 95.1 | 96.4 | 95.5 | 93.4 | 93.5 | 91.9 | 90.2 | 88.5 | 86.8 | 85.1 | 83.4 | 81.7 | 80.0 | 78.3 | |
| 2500 | 78.4 | 82.9 | 84.8 | 86.0 | 88.8 | 89.7 | 91.7 | 93.3 | 94.5 | 93.5 | 91.9 | 92.4 | 91.4 | 90.4 | 89.4 | 88.4 | 87.4 | 86.4 | 85.4 | 84.4 | 83.4 | |
| 3150 | 77.3 | 81.8 | 83.1 | 85.7 | 88.3 | 88.8 | 91.1 | 92.2 | 94.1 | 93.1 | 91.2 | 91.2 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | |
| 4000 | 76.3 | 80.6 | 82.0 | 83.9 | 87.4 | 87.7 | 89.2 | 89.8 | 91.8 | 90.1 | 87.9 | 88.4 | 91.2 | 93.6 | 95.1 | 96.6 | 98.1 | 99.6 | 101.1 | 102.6 | 104.1 | |
| 5000 | 76.4 | 81.3 | 82.0 | 83.7 | 86.4 | 86.4 | 88.1 | 87.5 | 90.5 | 87.4 | 86.9 | 85.5 | 88.3 | 91.2 | 94.1 | 97.0 | 99.9 | 102.8 | 105.7 | 108.6 | 111.5 | |
| 6300 | 76.2 | 83.5 | 85.8 | 87.9 | 90.2 | 89.6 | 89.9 | 90.9 | 88.8 | 86.4 | 84.5 | 86.2 | 89.1 | 92.0 | 94.9 | 97.8 | 100.7 | 103.6 | 106.5 | 109.4 | 112.3 | |
| 8000 | 75.7 | 80.6 | 83.8 | 89.3 | 91.4 | 92.6 | 92.6 | 89.4 | 89.4 | 85.8 | 82.3 | 81.1 | 83.7 | 86.6 | 89.5 | 92.4 | 95.3 | 98.2 | 101.1 | 104.0 | 106.9 | |
| 10000 | 70.2 | 77.7 | 81.5 | 82.0 | 81.3 | 82.4 | 84.6 | 84.7 | 83.6 | 80.9 | 78.5 | 76.2 | 78.4 | 81.3 | 84.2 | 87.1 | 90.0 | 92.9 | 95.8 | 98.7 | 101.6 | |
| 12500 | 68.5 | 74.1 | 78.8 | 78.2 | 77.2 | 77.9 | 77.9 | 80.8 | 80.8 | 80.7 | 77.4 | 73.9 | 74.9 | 77.3 | 80.2 | 83.1 | 86.0 | 88.9 | 91.8 | 94.7 | 97.6 | |
| 16000 | 71.5 | 75.9 | 82.0 | 79.3 | 78.4 | 80.8 | 85.7 | 80.8 | 80.7 | 77.4 | 73.9 | 75.9 | 77.3 | 80.2 | 83.1 | 86.0 | 88.9 | 91.8 | 94.7 | 97.6 | 100.5 | |
| OVERALL CALCULATED | 95.6 | 98.9 | 100.5 | 101.2 | 103.1 | 104.6 | 105.7 | 107.8 | 109.4 | 111.0 | 112.4 | 114.6 | 115.6 | 117.1 | 118.7 | 120.2 | 120.0 | 119.3 | 119.2 | 119.7 | 119.2 | |
| PDR | 15.2 | 109.4 | 111.0 | 112.4 | 114.6 | 115.6 | 117.1 | 118.7 | 120.2 | 120.0 | 119.3 | 119.2 | 119.7 | 119.2 | 119.7 | 119.2 | 119.7 | 119.2 | 119.7 | 119.2 | 119.7 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 770 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| NO EGA | SIDE LINE 2400. FT. | NFA (1. RPM) | NFK (0. RAD/SEC) | NFD (7500. RPM) | AIRFLOW RATIO | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | FAN TIP SPEED | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | | | | |
|--------|---------------------|----------------|--------------------|-------------------|---------------|---------|--------|------|------|------|------|---------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|------|------|
| | | | | | | | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | | | |
| | | | | | | | | | | | | | | (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 | 48.7 | 53.1 | 55.1 | 55.9 | 57.9 | 59.7 | 61.7 | 63.2 | 64.5 | 65.7 | 69.2 | 71.5 | 72.7 | 67.8 | 69.2 | 70.9 | 73.2 | 72.4 | 68.6 | 67.8 | 69.2 | 70.9 | 73.2 | 72.4 | 68.6 | 67.8 | 69.2 | 70.9 | 73.2 | 72.4 | 68.6 | |
| 63 | 50.0 | 54.6 | 56.0 | 58.5 | 60.7 | 61.7 | 63.2 | 64.5 | 65.7 | 69.2 | 71.5 | 72.7 | 72.7 | 69.2 | 69.2 | 70.9 | 73.2 | 72.4 | 68.6 | 67.8 | 69.2 | 70.9 | 73.2 | 72.4 | 68.6 | 67.8 | 69.2 | 70.9 | 73.2 | 72.4 | 68.6 | |
| 80 | 51.7 | 55.1 | 57.7 | 59.2 | 60.7 | 62.2 | 63.2 | 64.2 | 65.2 | 66.2 | 68.9 | 72.4 | 73.5 | 72.1 | 67.0 | 65.3 | 72.4 | 73.2 | 71.0 | 65.3 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 |
| 100 | 52.4 | 55.3 | 58.2 | 59.7 | 61.5 | 63.2 | 64.2 | 65.2 | 66.2 | 67.7 | 69.7 | 72.4 | 73.5 | 72.1 | 67.0 | 65.3 | 72.4 | 73.2 | 71.0 | 65.3 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 |
| 125 | 53.4 | 57.0 | 58.4 | 60.7 | 62.5 | 63.7 | 64.8 | 65.8 | 66.8 | 69.1 | 71.4 | 73.1 | 72.2 | 67.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 |
| 165 | 54.0 | 57.7 | 59.8 | 61.6 | 63.9 | 65.4 | 66.6 | 67.8 | 69.1 | 71.4 | 73.1 | 72.2 | 67.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | |
| 200 | 55.1 | 58.6 | 61.0 | 62.3 | 64.3 | 66.1 | 66.8 | 69.1 | 71.4 | 73.1 | 72.2 | 67.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | | |
| 250 | 54.9 | 58.2 | 61.9 | 62.7 | 64.0 | 66.0 | 67.3 | 69.7 | 71.4 | 73.1 | 72.2 | 67.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | 62.0 | 67.8 | 73.5 | 73.3 | 70.0 | 63.8 | | |
| 315 | 54.9 | 59.0 | 61.5 | 62.9 | 64.7 | 66.9 | 67.9 | 69.4 | 71.5 | 72.6 | 71.5 | 72.6 | 71.5 | 66.5 | 59.8 | | | | | | | | | | | | | | | | | |
| 400 | 54.5 | 59.0 | 61.5 | 62.4 | 64.9 | 66.2 | 68.4 | 70.1 | 72.7 | 71.8 | 69.1 | 65.3 | 57.5 | | | | | | | | | | | | | | | | | | | |
| 500 | 54.4 | 58.9 | 62.2 | 62.9 | 64.7 | 66.0 | 67.5 | 69.6 | 71.0 | 70.0 | 67.7 | 64.2 | 57.3 | | | | | | | | | | | | | | | | | | | |
| 630 | 54.2 | 60.8 | 64.0 | 65.2 | 67.3 | 70.3 | 69.0 | 71.2 | 71.0 | 69.2 | 67.3 | 63.3 | 57.8 | | | | | | | | | | | | | | | | | | | |
| 800 | 51.4 | 57.1 | 60.7 | 61.9 | 64.0 | 66.1 | 67.0 | 69.1 | 69.2 | 67.8 | 64.2 | 60.0 | 52.4 | | | | | | | | | | | | | | | | | | | |
| 1000 | 49.9 | 55.1 | 57.8 | 60.6 | 62.5 | 64.3 | 65.5 | 68.1 | 68.0 | 65.5 | 63.1 | 57.0 | 50.2 | | | | | | | | | | | | | | | | | | | |
| 1250 | 48.0 | 54.7 | 57.2 | 59.1 | 61.8 | 64.1 | 65.0 | 66.6 | 67.0 | 64.1 | 60.2 | 55.6 | 48.5 | | | | | | | | | | | | | | | | | | | |
| 1600 | 45.2 | 51.5 | 54.3 | 57.5 | 60.8 | 62.6 | 64.0 | 65.5 | 65.3 | 62.5 | 58.5 | 53.4 | 45.3 | | | | | | | | | | | | | | | | | | | |
| 2000 | 41.1 | 49.1 | 52.6 | 55.4 | 59.2 | 59.8 | 61.2 | 63.2 | 63.1 | 60.1 | 54.6 | 50.1 | 41.0 | | | | | | | | | | | | | | | | | | | |
| 2500 | 36.2 | 44.7 | 49.1 | 51.8 | 55.5 | 56.6 | 58.4 | 59.1 | 58.8 | 55.3 | 49.7 | 43.9 | 33.5 | | | | | | | | | | | | | | | | | | | |
| 3150 | 29.8 | 39.1 | 43.4 | 47.9 | 51.5 | 52.4 | 54.3 | 54.4 | 54.4 | 50.3 | 43.6 | 35.9 | 22.6 | | | | | | | | | | | | | | | | | | | |
| 4000 | 20.7 | 31.2 | 36.4 | 40.7 | 45.5 | 46.2 | 47.3 | 46.6 | 46.2 | 40.6 | 32.3 | 22.3 | 4.8 | | | | | | | | | | | | | | | | | | | |
| 5000 | 16.1 | 27.9 | 32.9 | 37.4 | 41.6 | 42.0 | 43.2 | 41.1 | 41.5 | 34.1 | 26.6 | 13.4 | | | | | | | | | | | | | | | | | | | | |
| 6300 | 2.1 | 18.7 | 26.7 | 32.4 | 36.5 | 36.6 | 36.2 | 35.3 | 29.7 | 21.6 | 10.1 | | | | | | | | | | | | | | | | | | | | | |
| 8000 | 4.3 | 14.3 | 19.6 | 24.2 | 26.6 | 25.5 | 25.5 | 22.7 | 14.8 | 3.4 | | | | | | | | | | | | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | 64.9 | 69.3 | 72.1 | 73.5 | 75.6 | 77.5 | 78.5 | 80.4 | 81.6 | 82.8 | 82.5 | 80.5 | 75.8 | | | | | | | | | | | | | | | | | | | |
| PND | 68.7 | 74.7 | 78.0 | 79.8 | 82.4 | 84.4 | 85.1 | 86.7 | 87.2 | 87.0 | 84.9 | 80.8 | 73.7 | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 770 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
 C. G. S. O. PHL
 (0.70)(0.87)(1.05)(1.22)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.20)(3.40)(3.60)(3.80)(4.00)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
|----------|--------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|
| 100 | 90.1 | 93.4 | 97.4 | 81.2 | 88.8 | 84.9 | 87.3 | 89.5 | 90.2 | 91.7 | 91.7 | 91.7 | 89.6 | 133.1 | |
| 125 | 90.3 | 94.6 | 98.1 | 79.9 | 82.7 | 82.9 | 86.0 | 88.4 | 90.4 | 91.7 | 91.7 | 91.9 | 87.8 | 133.1 | |
| 160 | 90.9 | 95.2 | 99.9 | 80.0 | 80.8 | 82.9 | 84.0 | 85.2 | 86.7 | 87.5 | 88.9 | 88.9 | 88.1 | 133.5 | |
| 200 | 93.5 | 100.3 | 104.5 | 82.3 | 81.5 | 84.4 | 86.1 | 87.8 | 89.4 | 91.1 | 91.1 | 91.5 | 91.5 | 137.8 | |
| 250 | 96.8 | 101.8 | 105.6 | 81.9 | 83.2 | 83.1 | 84.0 | 85.9 | 88.3 | 91.4 | 92.6 | 92.3 | 92.3 | 139.1 | |
| 315 | 98.4 | 104.7 | 107.7 | 83.2 | 85.3 | 85.2 | 86.3 | 89.2 | 90.9 | 92.5 | 94.0 | 94.6 | 94.6 | 141.3 | |
| 400 | 100.4 | 105.7 | 107.7 | 85.3 | 85.1 | 85.5 | 86.8 | 88.8 | 91.0 | 92.5 | 94.7 | 95.7 | 95.7 | 141.8 | |
| 500 | 100.5 | 106.0 | 107.5 | 85.8 | 85.4 | 85.3 | 87.2 | 89.3 | 91.8 | 94.1 | 95.6 | 97.2 | 97.2 | 141.9 | |
| 630 | 100.6 | 105.4 | 106.9 | 87.4 | 86.8 | 86.4 | 88.5 | 90.9 | 92.9 | 96.0 | 97.4 | 98.8 | 98.8 | 141.6 | |
| 800 | 100.4 | 103.9 | 105.9 | 88.7 | 88.3 | 87.4 | 89.8 | 92.2 | 94.4 | 96.7 | 98.9 | 100.1 | 100.1 | 140.9 | |
| 1000 | 100.0 | 101.2 | 103.2 | 90.3 | 89.9 | 89.5 | 91.1 | 92.8 | 95.5 | 97.3 | 99.3 | 100.7 | 100.7 | 139.6 | |
| 1250 | 98.0 | 100.6 | 101.1 | 90.1 | 89.4 | 90.1 | 91.7 | 93.4 | 96.1 | 97.9 | 100.1 | 102.0 | 102.0 | 139.3 | |
| 1600 | 98.6 | 99.7 | 100.2 | 91.0 | 89.4 | 90.1 | 91.8 | 94.0 | 96.9 | 98.5 | 100.0 | 102.1 | 102.1 | 138.9 | |
| 2000 | 97.4 | 99.0 | 98.2 | 91.5 | 90.3 | 90.7 | 92.1 | 94.8 | 96.5 | 99.3 | 101.3 | 102.2 | 102.2 | 138.7 | |
| 2500 | 96.3 | 97.8 | 97.6 | 93.1 | 92.0 | 90.8 | 92.2 | 94.4 | 97.1 | 98.9 | 100.6 | 102.8 | 102.8 | 138.6 | |
| 3150 | 98.5 | 103.5 | 102.8 | 92.6 | 91.9 | 91.8 | 93.2 | 95.1 | 96.8 | 99.1 | 101.8 | 103.3 | 103.3 | 140.9 | |
| 4000 | 94.8 | 96.1 | 95.6 | 91.6 | 90.9 | 91.1 | 93.2 | 95.4 | 96.6 | 98.9 | 101.4 | 102.0 | 102.0 | 138.3 | |
| 5000 | 94.1 | 95.4 | 96.5 | 91.5 | 90.8 | 90.4 | 92.6 | 94.8 | 98.0 | 99.3 | 101.3 | 101.7 | 101.7 | 138.4 | |
| 6300 | 94.0 | 96.3 | 97.8 | 90.6 | 91.2 | 90.3 | 92.4 | 94.8 | 97.8 | 100.7 | 100.9 | 102.3 | 102.3 | 138.9 | |
| 8000 | 92.5 | 95.6 | 97.7 | 90.2 | 89.1 | 92.0 | 94.9 | 96.9 | 100.5 | 101.0 | 101.6 | 101.6 | 101.6 | 138.7 | |
| 10000 | 91.2 | 95.5 | 98.4 | 88.4 | 90.9 | 88.8 | 91.4 | 94.9 | 95.9 | 99.0 | 100.4 | 100.8 | 100.8 | 138.5 | |
| 12500 | 89.2 | 94.1 | 97.5 | 86.3 | 88.5 | 87.6 | 90.5 | 92.7 | 95.2 | 98.2 | 98.7 | 98.9 | 98.9 | 137.6 | |
| 16000 | 87.2 | 92.2 | 96.7 | 84.5 | 86.6 | 85.7 | 89.6 | 92.1 | 95.7 | 97.2 | 96.8 | 97.5 | 97.5 | 137.1 | |
| 20000 | 82.3 | 88.1 | 93.9 | 81.9 | 83.7 | 83.8 | 86.5 | 90.5 | 91.6 | 96.0 | 93.6 | 94.5 | 94.5 | 135.7 | |
| 25000 | 79.7 | 82.4 | 89.0 | 79.2 | 81.3 | 80.6 | 83.8 | 86.8 | 88.7 | 90.5 | 90.9 | 92.1 | 92.1 | 133.3 | |
| 31500 | 75.5 | 81.6 | 86.7 | 77.6 | 79.2 | 79.1 | 82.5 | 86.0 | 87.0 | 89.9 | 88.3 | 88.2 | 88.2 | 133.7 | |
| 40000 | 69.0 | 76.0 | 81.2 | 73.5 | 75.2 | 75.2 | 78.7 | 81.4 | 83.7 | 86.9 | 84.8 | 83.7 | 83.7 | 133.1 | |
| 50000 | 62.0 | 66.9 | 73.3 | 67.0 | 69.2 | 70.9 | 73.7 | 75.9 | 78.5 | 80.9 | 79.1 | 77.1 | 77.1 | 131.4 | |
| 63000 | 53.3 | 57.6 | 65.6 | 61.4 | 62.2 | 63.6 | 66.9 | 69.4 | 73.5 | 75.3 | 74.2 | 71.1 | 71.1 | 131.9 | |
| 80000 | 45.6 | 49.1 | 61.0 | 57.4 | 55.7 | 61.1 | 60.0 | 63.8 | 67.8 | 72.4 | 68.8 | 65.7 | 65.7 | 136.5 | |

OVERALL MEASURED

OVERALL CALCULATED 110.6 114.7 116.7 102.6 103.6 102.1 104.2 106.5 108.7 111.1 112.5 113.6

PHDB 122.4 126.4 127.0 115.7 115.4 115.0 116.8 119.0 121.0 123.2 125.2 126.4

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 771 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

+ 80° spectra missing, see repeat data point

| RDG. NO. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWT | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | | | | | | | | PROC. DATE | MONTH | DAY | HR. | 18.5 | | | | | | | | | | | | | | | | | |
|--------------------|---------|--------|------|----------|-------|------|--------|------|-----|---------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | | | | | | 160. | 160. | 160. | 0. | 0. | 0. | 0. | 0. | | | | | | | | | |
| 50 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 53 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 80 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 100 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 125 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 160 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 200 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 250 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 315 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 400 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 500 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 630 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 800 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 1000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 1250 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 1600 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 2000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 2500 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 3150 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 4000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 5000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 6300 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 8000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 10000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 12500 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| 16000 | NO EGA | CELL41 | NC53 | 06-08-76 | CONF7 | HIGH | X07710 | 29.4 | HG | (99347. | N/M2) | 5000 | 85.0 | 87.7 | 94.4 | 84.6 | 86.6 | 85.9 | 89.1 | 92.2 | 94.0 | 95.8 | 96.2 | 97.4 | 146.6 | 147.0 | 146.4 | 144.7 | 145.2 | 149.8 | 166.2 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | 112.3 | 116.3 | 118.1 | 104.6 | 104.6 | 104.1 | 106.3 | 108.7 | 113.9 | 113.5 | 114.6 | 115.7 | 122.6 | 125.5 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | | |
| PNDB | | | | | | | | | | | | 119.2 | 123.2 | 126.1 | 114.8 | 116.0 | 115.3 | 118.1 | 120.7 | 122.6 | 125.5 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 | 126.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 771 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

+ 80° spectra missing, see repeat data point

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | C. G. D. C.) (C. G.) (C. G.) (C. G.) |
| FREQ. | (0.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.27) | (2.44) | (2.62) | (2.79) | (2.79) | |
| 50 | 70.5 | 77.1 | 81.9 | 84.0 | 60.2 | 62.9 | 60.6 | 63.3 | 65.5 | 66.1 | 65.3 | 62.5 | |
| 53 | 72.0 | 79.9 | 84.0 | 60.2 | 62.9 | 60.6 | 63.3 | 65.5 | 66.1 | 65.3 | 62.5 | | |
| 80 | 73.9 | 80.8 | 83.9 | 62.2 | 62.6 | 62.8 | 63.8 | 65.0 | 66.1 | 66.0 | 65.9 | 63.3 | |
| 100 | 73.9 | 81.1 | 83.7 | 62.7 | 62.9 | 62.6 | 64.0 | 65.5 | 66.8 | 67.5 | 66.6 | 64.7 | |
| 125 | 73.9 | 80.3 | 82.9 | 64.2 | 64.1 | 63.6 | 65.3 | 67.0 | 67.8 | 69.2 | 68.3 | 66.1 | |
| 160 | 73.5 | 78.7 | 81.8 | 65.4 | 65.5 | 64.5 | 66.5 | 68.1 | 69.2 | 69.8 | 69.6 | 67.0 | |
| 200 | 72.8 | 75.8 | 79.0 | 66.8 | 67.0 | 66.5 | 68.5 | 70.1 | 70.2 | 69.7 | 67.2 | | |
| (0. RAD/SEC) | 70.7 | 74.9 | 76.6 | 66.5 | 66.4 | 66.9 | 68.1 | 68.9 | 70.5 | 70.5 | 70.2 | 68.0 | |
| (0. RAD/SEC) | 70.9 | 73.8 | 75.5 | 67.1 | 66.8 | 66.0 | 67.9 | 69.3 | 71.0 | 70.8 | 69.6 | 67.5 | |
| (7500. RPM) | 69.3 | 72.7 | 73.2 | 67.4 | 66.8 | 67.0 | 68.0 | 69.8 | 70.2 | 71.2 | 70.3 | 66.7 | |
| (785. RAD/SEC) | 67.6 | 71.1 | 72.2 | 68.6 | 68.1 | 66.8 | 67.7 | 69.0 | 70.3 | 70.3 | 69.0 | 66.3 | |
| AIRFLOW RATIO | 69.2 | 76.3 | 77.0 | 67.7 | 67.4 | 68.3 | 69.3 | 69.6 | 69.9 | 69.4 | 65.5 | | |
| WF/W 4.63 | 64.6 | 68.1 | 69.2 | 66.1 | 66.2 | 66.1 | 67.7 | 68.9 | 68.7 | 68.8 | 67.8 | 62.5 | |
| VEHICLE CELL41 | 62.9 | 66.6 | 69.3 | 65.3 | 65.4 | 64.8 | 66.4 | 67.5 | 69.2 | 68.1 | 66.3 | 60.2 | |
| CONFIG NC53 | 61.5 | 66.4 | 69.7 | 63.6 | 65.0 | 63.9 | 65.4 | 66.7 | 68.0 | 68.2 | 64.2 | 58.2 | |
| LCC C41 ANECH CH | 58.2 | 64.3 | 68.3 | 62.0 | 63.0 | 61.6 | 63.8 | 65.5 | 65.6 | 66.3 | 62.0 | 54.0 | |
| DATE 06-08-76 | 54.8 | 62.5 | 67.5 | 58.9 | 62.5 | 60.1 | 62.0 | 64.0 | 62.9 | 62.7 | 58.7 | 49.0 | |
| RUN CONF7HIGHFLW | 49.8 | 58.6 | 64.5 | 55.0 | 58.3 | 57.1 | 59.7 | 59.7 | 59.8 | 52.9 | 41.0 | | |
| TAPE X07710 | 43.0 | 52.8 | 60.3 | 50.1 | 53.6 | 52.3 | 55.2 | 55.8 | 54.3 | 53.0 | 44.6 | 29.9 | |
| FAN TIP SPEED | 30.7 | 42.7 | 52.4 | 42.8 | 46.2 | 46.0 | 47.4 | 49.0 | 46.2 | 44.4 | 31.6 | 12.1 | |
| FT/SEC | 24.7 | 34.4 | 45.4 | 38.2 | 42.2 | 41.1 | 42.8 | 43.1 | 43.7 | 35.5 | 24.1 | 2.3 | |
| 6300 | 8.3 | 23.8 | 34.6 | 29.0 | 33.1 | 32.4 | 33.9 | 33.9 | 29.1 | 22.8 | 5.3 | | |
| 8000 | 2.9 | 15.9 | 13.0 | 18.2 | 18.9 | 18.7 | 16.2 | 19.6 | 1.0 | | | | |
| 10000 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 82.9 | 88.8 | 91.8 | 77.6 | 77.8 | 77.2 | 78.6 | 79.9 | 80.9 | 81.1 | 80.1 | 77.0 | |
| PNDR | 85.1 | 91.3 | 93.9 | 83.6 | 84.8 | 83.5 | 85.2 | 86.6 | 86.9 | 87.1 | 84.9 | 87.3 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 771 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| RDG. NO. | NO EGA | FREQ. | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | PDL | | | | | | |
|--------------------|--------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|------|------|----|----|
| | | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | | 130. | 140. | 160. | 169. | 0. | 0. |
| 100 | 89.9 | 93.2 | 93.9 | 93.0 | 93.0 | 97.4 | 76.0 | 102.5 | 83.4 | 92.5 | 87.9 | 137.2 | | | | |
| 125 | 90.8 | 92.6 | 94.1 | 90.9 | 88.7 | 98.6 | 74.2 | 103.4 | 82.1 | 85.9 | 85.9 | 137.4 | | | | |
| 160 | 86.1 | 89.2 | 90.7 | 91.0 | 94.5 | 99.7 | 73.0 | 106.0 | 82.7 | 84.5 | 86.4 | 139.2 | | | | |
| 200 | 38.0 | 90.8 | 92.8 | 94.6 | 96.9 | 101.8 | 73.2 | 110.1 | 84.5 | 84.6 | 84.6 | 142.8 | | | | |
| 250 | 88.8 | 92.3 | 95.1 | 95.4 | 99.0 | 105.8 | 72.2 | 111.6 | 83.6 | 86.9 | 86.4 | 144.7 | | | | |
| 315 | 90.9 | 93.4 | 96.2 | 97.0 | 101.1 | 107.7 | 76.6 | 113.5 | 85.4 | 89.3 | 86.2 | 146.6 | | | | |
| 400 | 90.9 | 93.5 | 97.2 | 99.0 | 103.6 | 110.0 | 78.8 | 113.7 | 87.7 | 88.8 | 88.7 | 147.6 | | | | |
| 500 | 91.5 | 94.3 | 97.8 | 100.1 | 104.9 | 110.8 | 81.7 | 114.3 | 88.0 | 88.9 | 88.3 | 148.3 | | | | |
| 630 | 93.1 | 95.6 | 99.1 | 101.7 | 105.8 | 110.1 | 83.5 | 114.2 | 89.6 | 90.5 | 89.4 | 148.3 | | | | |
| 800 | 93.9 | 96.9 | 101.2 | 103.4 | 107.0 | 109.9 | 85.3 | 114.4 | 91.2 | 92.0 | 90.7 | 148.7 | | | | |
| 1000 | 95.2 | 98.0 | 101.5 | 104.0 | 107.4 | 109.2 | 85.6 | 114.0 | 93.5 | 94.6 | 93.5 | 148.6 | | | | |
| 1250 | 96.0 | 98.6 | 102.8 | 105.1 | 107.7 | 108.8 | 88.2 | 114.1 | 93.1 | 93.9 | 93.4 | 148.8 | | | | |
| 1600 | 96.6 | 98.4 | 102.7 | 105.5 | 107.6 | 109.2 | 90.6 | 114.5 | 94.7 | 95.5 | 93.0 | 149.0 | | | | |
| 2000 | 96.7 | 99.7 | 104.2 | 105.8 | 107.1 | 110.0 | 92.8 | 114.8 | 99.7 | 97.8 | 95.8 | 149.0 | | | | |
| 2500 | 97.0 | 99.6 | 104.1 | 107.1 | 106.7 | 109.3 | 95.0 | 111.9 | 100.8 | 100.4 | 98.6 | 149.0 | | | | |
| 3150 | 97.7 | 100.5 | 105.1 | 107.1 | 107.2 | 110.5 | 96.2 | 109.8 | 98.3 | 98.6 | 98.6 | 148.3 | | | | |
| 4000 | 99.3 | 101.1 | 104.6 | 106.4 | 106.9 | 109.8 | 95.7 | 107.9 | 96.1 | 96.4 | 95.9 | 147.6 | | | | |
| 5000 | 98.6 | 101.9 | 105.2 | 106.0 | 106.1 | 109.2 | 96.6 | 107.7 | 95.7 | 96.1 | 95.3 | 147.3 | | | | |
| 6300 | 98.5 | 102.3 | 105.8 | 106.1 | 105.2 | 108.3 | 98.4 | 107.6 | 94.3 | 95.4 | 94.1 | 147.1 | | | | |
| 8000 | 98.0 | 102.1 | 105.1 | 105.9 | 105.5 | 106.8 | 98.5 | 106.7 | 94.1 | 94.8 | 93.2 | 146.9 | | | | |
| 10000 | 96.7 | 100.8 | 104.9 | 105.1 | 103.9 | 105.3 | 99.7 | 106.4 | 92.4 | 95.0 | 93.2 | 146.3 | | | | |
| 12500 | 95.4 | 99.6 | 102.4 | 102.9 | 101.2 | 103.1 | 99.2 | 104.7 | 90.1 | 92.9 | 91.8 | 144.7 | | | | |
| 16000 | 94.2 | 98.7 | 100.2 | 102.3 | 99.3 | 101.2 | 99.1 | 103.6 | 88.8 | 91.9 | 90.5 | 144.2 | | | | |
| 20000 | 92.8 | 96.8 | 97.4 | 98.7 | 95.7 | 97.6 | 97.8 | 100.5 | 86.5 | 89.1 | 88.5 | 142.3 | | | | |
| 25000 | 88.8 | 92.1 | 94.8 | 96.5 | 92.2 | 95.6 | 94.3 | 97.0 | 83.9 | 87.4 | 85.4 | 140.8 | | | | |
| 31500 | 86.4 | 90.0 | 91.9 | 92.4 | 89.2 | 92.3 | 95.5 | 95.6 | 82.4 | 86.2 | 84.5 | 140.8 | | | | |
| 40000 | 81.7 | 85.9 | 87.3 | 87.8 | 85.8 | 89.2 | 92.1 | 91.1 | 78.2 | 82.3 | 81.8 | 140.1 | | | | |
| 50000 | 74.9 | 78.6 | 80.3 | 81.2 | 79.5 | 83.1 | 86.1 | 85.4 | 72.4 | 77.3 | 76.8 | 138.2 | | | | |
| 63000 | 68.1 | 72.4 | 74.1 | 74.3 | 72.5 | 77.5 | 79.3 | 79.3 | 68.1 | 72.1 | 71.5 | 138.2 | | | | |
| 80000 | 62.2 | 69.4 | 67.7 | 69.4 | 66.3 | 72.7 | 75.8 | 75.9 | 65.3 | 72.5 | 69.4 | 143.7 | | | | |
| OVERALL MEASURED | | 109.2 | 112.3 | 116.0 | 117.4 | 118.5 | 121.7 | 108.7 | 125.1 | 107.6 | 108.1 | 106.9 | | | | |
| OVERALL CALCULATED | | 122.2 | 124.7 | 128.5 | 130.2 | 131.0 | 134.3 | 118.6 | 135.1 | 121.3 | 121.5 | 120.5 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **772** ACUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-154cm²(23.9in²)** SIZE

+ 60° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | C. | D. | E. | PWL | | | | | | | | | | |
|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| | 40. | 50. | 60. | 70. | | | | | | | | | | | | | | |
| 50 | 90.6 | 94.2 | 96.9 | 97.2 | 100.8 | 107.7 | 74.1 | 113.5 | 85.4 | 88.7 | 88.2 | 130. | 140. | 160. | 160. | 160. | 160. | 158.0 |
| 63 | 92.7 | 95.3 | 98.0 | 98.8 | 102.9 | 109.5 | 78.4 | 115.3 | 87.3 | 91.1 | 88.0 | 130. | 140. | 160. | 160. | 160. | 160. | 159.9 |
| 90 | 92.8 | 95.3 | 99.0 | 100.8 | 105.4 | 111.8 | 80.7 | 115.6 | 89.5 | 90.6 | 90.6 | 130. | 140. | 160. | 160. | 160. | 160. | 160.9 |
| 100 | 93.4 | 96.1 | 99.6 | 101.9 | 106.8 | 112.6 | 83.5 | 116.2 | 89.9 | 90.7 | 90.2 | 130. | 140. | 160. | 160. | 160. | 160. | 161.6 |
| 125 | 94.9 | 97.5 | 101.0 | 103.5 | 107.6 | 112.0 | 85.4 | 116.0 | 91.5 | 92.3 | 91.3 | 130. | 140. | 160. | 160. | 160. | 160. | 161.6 |
| 160 | 95.7 | 98.7 | 103.0 | 105.3 | 109.6 | 111.7 | 87.1 | 116.3 | 93.0 | 93.8 | 92.5 | 130. | 140. | 160. | 160. | 160. | 160. | 162.1 |
| 200 | 97.0 | 99.8 | 103.3 | 105.9 | 109.2 | 111.1 | 87.5 | 115.9 | 95.3 | 96.4 | 95.4 | 130. | 140. | 160. | 160. | 160. | 160. | 161.9 |
| 250 | 97.9 | 100.4 | 104.7 | 107.3 | 109.6 | 110.7 | 90.1 | 116.0 | 94.9 | 95.7 | 95.2 | 130. | 140. | 160. | 160. | 160. | 160. | 162.1 |
| 315 | 98.5 | 100.3 | 104.5 | 107.3 | 109.4 | 111.0 | 92.4 | 116.3 | 96.5 | 97.4 | 94.8 | 130. | 140. | 160. | 160. | 160. | 160. | 162.3 |
| 400 | 98.5 | 101.6 | 106.1 | 107.6 | 109.0 | 111.8 | 94.7 | 115.6 | 101.6 | 99.7 | 97.6 | 130. | 140. | 160. | 160. | 160. | 160. | 162.3 |
| 500 | 98.9 | 101.4 | 106.0 | 109.0 | 108.6 | 111.2 | 96.8 | 113.7 | 102.7 | 102.3 | 100.5 | 130. | 140. | 160. | 160. | 160. | 160. | 161.7 |
| 650 | 99.7 | 102.4 | 107.0 | 109.0 | 109.1 | 112.4 | 98.1 | 111.7 | 103.2 | 100.6 | 100.5 | 130. | 140. | 160. | 160. | 160. | 160. | 161.6 |
| 800 | 101.2 | 103.0 | 106.6 | 108.3 | 108.9 | 111.8 | 97.7 | 109.8 | 98.1 | 98.4 | 97.8 | 130. | 140. | 160. | 160. | 160. | 160. | 160.9 |
| 1000 | 100.6 | 103.9 | 107.2 | 108.0 | 108.1 | 111.2 | 98.6 | 109.7 | 97.7 | 98.0 | 97.2 | 130. | 140. | 160. | 160. | 160. | 160. | 160.6 |
| 1250 | 100.5 | 104.3 | 107.9 | 108.2 | 107.2 | 110.3 | 100.5 | 109.7 | 96.4 | 97.5 | 96.2 | 130. | 140. | 160. | 160. | 160. | 160. | 160.4 |
| 1600 | 100.2 | 104.3 | 108.4 | 108.1 | 107.7 | 109.1 | 100.7 | 108.9 | 96.4 | 97.0 | 95.4 | 130. | 140. | 160. | 160. | 160. | 160. | 160.2 |
| 2000 | 99.1 | 103.2 | 107.3 | 107.6 | 106.4 | 107.7 | 102.1 | 108.8 | 94.8 | 97.5 | 95.6 | 130. | 140. | 160. | 160. | 160. | 160. | 159.6 |
| 2500 | 98.2 | 102.4 | 105.2 | 105.7 | 104.0 | 105.9 | 102.0 | 107.5 | 92.9 | 95.7 | 94.6 | 130. | 140. | 160. | 160. | 160. | 160. | 158.0 |
| 3150 | 97.6 | 102.0 | 103.5 | 105.7 | 102.7 | 104.5 | 102.4 | 106.9 | 92.2 | 95.2 | 93.9 | 130. | 140. | 160. | 160. | 160. | 160. | 157.5 |
| 4000 | 96.8 | 100.9 | 101.5 | 102.8 | 99.8 | 101.6 | 101.8 | 104.6 | 90.6 | 93.2 | 92.6 | 130. | 140. | 160. | 160. | 160. | 160. | 155.6 |
| 5000 | 94.1 | 97.4 | 100.2 | 101.9 | 97.5 | 100.9 | 99.6 | 102.4 | 89.2 | 92.8 | 90.8 | 130. | 140. | 160. | 160. | 160. | 160. | 154.1 |
| 6300 | 93.3 | 97.0 | 98.9 | 99.3 | 96.1 | 99.2 | 102.4 | 102.5 | 89.3 | 93.1 | 91.4 | 130. | 140. | 160. | 160. | 160. | 160. | 154.1 |
| 8000 | 90.9 | 95.2 | 96.6 | 97.1 | 95.1 | 98.4 | 101.4 | 100.4 | 87.4 | 91.5 | 91.0 | 130. | 140. | 160. | 160. | 160. | 160. | 153.4 |
| 10000 | 87.2 | 90.9 | 92.6 | 93.5 | 91.9 | 95.4 | 98.4 | 97.7 | 84.7 | 89.6 | 89.1 | 130. | 140. | 160. | 160. | 160. | 160. | 151.5 |
| 12500 | 84.9 | 89.2 | 90.9 | 91.1 | 89.3 | 94.2 | 96.1 | 96.1 | 84.9 | 88.9 | 88.3 | 130. | 140. | 160. | 160. | 160. | 160. | 151.5 |
| 16000 | 85.3 | 92.5 | 90.8 | 92.5 | 89.4 | 95.8 | 99.0 | 99.0 | 88.4 | 95.6 | 92.5 | 130. | 140. | 160. | 160. | 160. | 160. | 157.0 |
| PND8 | 122.9 | 126.7 | 129.5 | 130.8 | 130.0 | 132.4 | 125.5 | 134.6 | 119.2 | 121.2 | 120.0 | 130. | 140. | 160. | 160. | 160. | 160. | 174.0 |

OVERALL CALCULATED 111.3 114.6 118.1 119.5 120.4 123.6 112.5 126.8 109.7 110.4 109.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 772 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

+ 80° spectra missing, see repeat data point

| NO EGA
SIDE LINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | |
|---|---|------|------|------|-------|-------|------|-------|------|------|------|------|------|----|----|----|----|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 160. | 160. | 0. | 0. | 0. | 0. |
| 5C | 62.5 | 67.6 | 71.4 | 72.4 | 76.6 | 83.3 | 49.3 | 87.9 | 58.8 | 60.6 | 54.3 | | | | | | |
| 63 | 64.5 | 68.6 | 72.5 | 74.0 | 78.6 | 85.1 | 53.6 | 89.7 | 60.6 | 62.8 | 54.0 | | | | | | |
| 80 | 64.4 | 68.6 | 73.4 | 75.9 | 81.1 | 87.3 | 55.8 | 90.0 | 62.8 | 62.3 | 56.4 | | | | | | |
| 100 | 64.9 | 69.3 | 73.9 | 76.9 | 82.4 | 88.1 | 58.5 | 90.5 | 63.1 | 62.3 | 55.8 | | | | | | |
| 125 | 66.4 | 70.5 | 75.2 | 78.5 | 83.1 | 87.4 | 60.3 | 90.2 | 64.5 | 63.7 | 56.6 | | | | | | |
| 160 | 67.0 | 71.7 | 77.1 | 80.1 | 84.3 | 87.0 | 62.0 | 90.4 | 65.9 | 65.1 | 57.5 | | | | | | |
| 200 | 68.1 | 72.6 | 77.2 | 80.6 | 84.5 | 86.2 | 62.1 | 89.8 | 68.1 | 67.5 | 60.0 | | | | | | |
| 250 | 68.7 | 72.9 | 78.4 | 81.5 | 84.7 | 85.6 | 64.6 | 89.7 | 67.5 | 66.5 | 59.3 | | | | | | |
| 315 | 68.9 | 72.5 | 78.0 | 81.6 | 84.3 | 85.8 | 66.7 | 89.8 | 68.8 | 67.8 | 58.3 | | | | | | |
| 400 | 68.5 | 73.5 | 79.2 | 81.6 | 83.6 | 86.3 | 68.7 | 88.8 | 73.5 | 69.7 | 60.2 | | | | | | |
| 500 | 68.4 | 72.9 | 78.7 | 82.2 | 82.9 | 85.3 | 70.5 | 86.5 | 74.2 | 71.8 | 62.1 | | | | | | |
| 630 | 68.5 | 73.3 | 79.2 | 82.2 | 82.9 | 86.1 | 71.3 | 84.0 | 71.1 | 69.4 | 60.8 | | | | | | |
| 800 | 69.1 | 73.1 | 78.2 | 80.9 | 82.2 | 84.9 | 70.2 | 81.4 | 68.2 | 66.3 | 56.4 | | | | | | |
| 1000 | 67.4 | 73.1 | 78.0 | 79.8 | 80.7 | 83.6 | 70.4 | 80.5 | 66.9 | 64.9 | 53.8 | | | | | | |
| 1250 | 66.0 | 72.4 | 77.7 | 79.1 | 79.0 | 81.9 | 71.4 | 79.5 | 64.5 | 63.0 | 50.1 | | | | | | |
| LOC C41 ANECH CH | 63.7 | 70.8 | 76.8 | 77.8 | 78.2 | 79.4 | 70.3 | 77.3 | 62.8 | 60.5 | 45.6 | | | | | | |
| DATE 06-08-76 | 60.3 | 67.8 | 74.0 | 75.6 | 75.5 | 76.6 | 70.2 | 75.5 | 59.4 | 58.7 | 41.4 | | | | | | |
| RUN CONF7HIGHFLW | 56.1 | 64.1 | 69.4 | 71.5 | 71.0 | 72.6 | 67.9 | 71.7 | 54.7 | 53.5 | 33.9 | | | | | | |
| TAPE X07720 | 50.0 | 59.3 | 63.9 | 67.9 | 66.3 | 67.8 | 64.7 | 67.2 | 49.5 | 47.7 | 22.9 | | | | | | |
| FAN TIP SPEED | 41.2 | 51.4 | 55.9 | 59.6 | 58.3 | 59.8 | 58.6 | 59.0 | 41.1 | 37.5 | 6.1 | | | | | | |
| FT/SEC | 5000 | 33.8 | 44.1 | 51.2 | 55.5 | 53.1 | 56.0 | 53.3 | 35.4 | 35.9 | 32.5 | | | | | | |
| 8000 | 19.3 | 32.2 | 39.8 | 43.7 | 43.1 | 45.6 | 46.9 | 43.5 | 24.5 | 19.1 | | | | | | | |
| 10000 | 12.8 | 22.0 | 27.4 | 28.8 | 31.3 | 31.7 | 25.8 | 5.1 | | | | | | | | | |
| 12500 | | 4.0 | 7.1 | 9.5 | 9.0 | 1.7 | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 79.2 | 84.0 | 89.4 | 92.1 | 94.5 | 97.7 | 80.5 | 100.2 | 89.4 | 78.6 | 69.8 | | | | | | |
| PNDB | 34.5 | 91.1 | 96.8 | 99.0 | 100.2 | 102.8 | 90.4 | 104.2 | 86.6 | 84.6 | 73.8 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 772 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

+ 80° spectra missing, see repeat data point

RDG. NO. 0. RADIAL 40. FT. VEHICLE CELL41 CONFIG NC54 LOC C41 ANECH CH DATE 06-10-76 RUN CONF7HIGHFLW TAPE 29.4 HG (99212. N/M2) TAMB 67. DEG F (293. DEG K) TWET 62. DEG F (290. DEG K) HACT12.93 GR/M3 (.01293 KG/M3) FREQ. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PML

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO | 59 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RDG. NO. | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE | 80.6 | 81.2 | 81.8 | 82.4 | 83.0 | 83.6 | 84.2 | 84.8 | 85.4 | 86.0 | 86.6 | 87.2 | 87.8 | 88.4 | 89.0 | 89.6 | 90.2 | 90.8 | 91.4 | 92.0 | 92.6 | 93.2 | 93.8 | 94.4 | 95.0 | 95.6 | 96.2 | 96.8 | 97.4 | 98.0 | 98.6 | 99.2 | 99.8 | 100.4 | 101.0 | 101.6 | 102.2 | 102.8 | 103.4 | 104.0 | 104.6 | 105.2 | 105.8 | 106.4 | 107.0 | 107.6 | 108.2 | 108.8 | 109.4 | 110.0 | 110.6 | 111.2 | 111.8 | 112.4 | 113.0 | 113.6 | 114.2 | 114.8 | 115.4 | 116.0 | 116.6 | 117.2 | 117.8 | 118.4 | 119.0 | 119.6 | 120.2 | 120.8 | 121.4 | 122.0 | 122.6 | 123.2 | 123.8 | 124.4 | 125.0 | 125.6 | 126.2 | 126.8 | 127.4 | 128.0 | 128.6 | 129.2 | 129.8 | 130.4 | 131.0 | 131.6 | 132.2 | 132.8 | 133.4 | 134.0 | 134.6 | 135.2 | 135.8 | 136.4 | 137.0 | 137.6 | 138.2 | 138.8 | 139.4 | 140.0 | 140.6 | 141.2 | 141.8 | 142.4 | 143.0 | 143.6 | 144.2 | 144.8 | 145.4 | 146.0 | 146.6 | 147.2 | 147.8 | 148.4 | 149.0 | 149.6 | 150.2 | 150.8 | 151.4 | 152.0 | 152.6 | 153.2 | 153.8 | 154.4 | 155.0 | 155.6 | 156.2 | 156.8 | 157.4 | 158.0 | 158.6 | 159.2 | 159.8 | 160.4 | 161.0 | 161.6 | 162.2 | 162.8 | 163.4 | 164.0 | 164.6 | 165.2 | 165.8 | 166.4 | 167.0 | 167.6 | 168.2 | 168.8 | 169.4 | 170.0 | 170.6 | 171.2 | 171.8 | 172.4 | 173.0 | 173.6 | 174.2 | 174.8 | 175.4 | 176.0 | 176.6 | 177.2 | 177.8 | 178.4 | 179.0 | 179.6 | 180.2 | 180.8 | 181.4 | 182.0 | 182.6 | 183.2 | 183.8 | 184.4 | 185.0 | 185.6 | 186.2 | 186.8 | 187.4 | 188.0 | 188.6 | 189.2 | 189.8 | 190.4 | 191.0 | 191.6 | 192.2 | 192.8 | 193.4 | 194.0 | 194.6 | 195.2 | 195.8 | 196.4 | 197.0 | 197.6 | 198.2 | 198.8 | 199.4 | 200.0 |

OVERALL MEASURED 103.5 105.6 106.5 107.2 108.8 110.2 112.1 113.6 117.3 120.8 124.5 126.4 125.5

OVERALL CALCULATED PND3 116.4 118.1 118.9 119.6 121.0 122.4 124.3 126.3 130.1 133.2 136.8 137.9 136.2

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 773 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| RDG. NO. | NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | PWL | | |
|--------------------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. |
| 50 | 84.1 | 87.4 | 88.9 | 89.2 | 90.6 | 91.9 | 93.8 | 94.7 | 97.9 | 103.7 | 110.4 | 112.4 | 113.2 | 157.7 |
| 63 | 85.5 | 89.0 | 91.3 | 91.3 | 92.4 | 94.0 | 95.2 | 96.1 | 99.8 | 105.6 | 112.0 | 114.7 | 114.5 | 159.5 |
| 80 | 87.8 | 89.0 | 91.3 | 91.3 | 92.4 | 94.0 | 95.2 | 96.1 | 99.8 | 105.6 | 112.0 | 114.7 | 114.5 | 161.0 |
| 100 | 88.6 | 89.6 | 91.4 | 91.4 | 92.5 | 94.1 | 95.4 | 96.8 | 100.5 | 106.3 | 112.1 | 114.8 | 115.3 | 162.3 |
| 125 | 89.5 | 91.5 | 92.0 | 93.8 | 95.1 | 96.2 | 97.9 | 99.5 | 104.5 | 110.6 | 116.0 | 117.7 | 116.5 | 162.8 |
| 160 | 91.7 | 92.7 | 93.5 | 94.3 | 95.6 | 97.5 | 99.1 | 101.0 | 105.8 | 111.3 | 115.8 | 118.7 | 117.7 | 163.5 |
| 200 | 94.8 | 95.8 | 96.3 | 97.4 | 97.7 | 99.3 | 99.7 | 102.1 | 106.3 | 111.7 | 115.4 | 117.5 | 117.6 | 163.1 |
| 250 | 93.4 | 95.9 | 97.4 | 97.0 | 97.8 | 99.9 | 100.8 | 103.2 | 107.7 | 111.3 | 114.2 | 117.9 | 117.4 | 163.0 |
| 315 | 93.7 | 95.3 | 95.5 | 96.8 | 98.4 | 100.0 | 101.2 | 102.6 | 108.0 | 111.4 | 114.1 | 118.2 | 117.5 | 163.2 |
| 400 | 94.8 | 95.3 | 97.1 | 97.4 | 98.7 | 99.8 | 102.0 | 103.9 | 108.1 | 110.9 | 113.4 | 117.0 | 115.8 | 162.3 |
| 500 | 94.4 | 95.5 | 96.7 | 97.0 | 97.8 | 98.8 | 100.5 | 102.1 | 104.0 | 108.5 | 110.8 | 114.3 | 113.2 | 162.0 |
| 630 | 95.2 | 96.2 | 97.0 | 97.8 | 98.8 | 100.2 | 101.8 | 104.8 | 108.7 | 111.5 | 115.0 | 114.9 | 111.5 | 161.8 |
| 800 | 94.0 | 95.3 | 96.8 | 97.1 | 97.7 | 99.7 | 99.8 | 102.4 | 104.6 | 108.1 | 111.2 | 113.8 | 113.0 | 160.9 |
| 1000 | 94.1 | 95.2 | 96.2 | 97.5 | 98.6 | 100.7 | 102.3 | 105.0 | 107.7 | 110.1 | 112.5 | 111.9 | 109.4 | 160.1 |
| 1250 | 93.5 | 94.6 | 96.6 | 97.4 | 99.2 | 101.3 | 103.7 | 104.9 | 107.6 | 109.2 | 111.2 | 110.3 | 109.6 | 159.6 |
| 1600 | 93.2 | 96.0 | 96.6 | 97.6 | 99.4 | 101.3 | 103.4 | 104.4 | 107.4 | 109.5 | 110.9 | 109.8 | 109.3 | 159.4 |
| 2000 | 91.6 | 96.0 | 96.1 | 97.5 | 99.4 | 100.0 | 102.9 | 104.0 | 106.8 | 108.2 | 109.4 | 109.5 | 108.0 | 158.6 |
| 2500 | 90.1 | 95.3 | 95.5 | 96.7 | 98.5 | 99.3 | 102.2 | 102.1 | 104.7 | 105.9 | 108.1 | 107.9 | 107.1 | 157.2 |
| 3150 | 89.2 | 93.7 | 94.7 | 96.9 | 98.4 | 98.7 | 101.9 | 100.9 | 104.7 | 104.4 | 106.8 | 107.6 | 106.5 | 156.7 |
| 4000 | 87.1 | 91.2 | 92.8 | 94.2 | 98.0 | 97.5 | 100.7 | 99.0 | 102.3 | 101.6 | 103.0 | 104.2 | 104.3 | 154.6 |
| 5000 | 85.0 | 90.0 | 90.4 | 92.7 | 95.0 | 95.7 | 96.7 | 97.6 | 101.5 | 99.4 | 102.9 | 101.2 | 102.3 | 153.0 |
| 6300 | 84.4 | 89.2 | 91.4 | 92.6 | 94.9 | 94.6 | 97.5 | 96.4 | 99.7 | 98.8 | 101.0 | 102.4 | 101.6 | 152.8 |
| 8000 | 82.1 | 87.0 | 90.1 | 90.9 | 91.7 | 91.7 | 95.4 | 93.6 | 97.4 | 97.5 | 100.3 | 100.4 | 99.5 | 151.8 |
| 10000 | 79.3 | 83.7 | 87.2 | 87.7 | 87.5 | 88.1 | 92.1 | 90.1 | 93.9 | 94.5 | 100.3 | 96.6 | 96.1 | 150.6 |
| 12500 | 77.7 | 81.7 | 86.3 | 85.5 | 85.3 | 86.4 | 90.5 | 87.8 | 91.6 | 93.7 | 99.8 | 94.0 | 95.0 | 151.1 |
| 16000 | 80.5 | 83.9 | 89.8 | 87.2 | 86.3 | 87.2 | 95.4 | 88.6 | 92.8 | 97.1 | 102.6 | 96.8 | 97.5 | 156.8 |
| OVERALL CALCULATED | 105.5 | 107.6 | 108.6 | 109.4 | 111.0 | 112.3 | 114.4 | 115.7 | 119.4 | 122.7 | 126.4 | 128.2 | 127.2 | 174.3 |
| Pr:DB | 115.7 | 119.3 | 120.1 | 121.5 | 123.2 | 124.0 | 126.5 | 126.8 | 130.4 | 132.1 | 134.8 | 135.6 | 134.6 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 773 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. |
| NO EGA | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) |
| SIDELINE 2400. FT. | 63 | 60.8 | 63.4 | 64.4 | 66.2 | 67.7 | 69.4 |
| (731.52 M) | 80 | 59.2 | 62.3 | 65.7 | 68.0 | 69.7 | 70.7 |
| NFA (0. RAD/SEC) | 102 | 60.2 | 62.8 | 64.9 | 66.5 | 68.7 | 71.0 |
| NFK (0. RAD/SEC) | 125 | 60.9 | 64.5 | 66.2 | 68.7 | 70.5 | 73.2 |
| NFD (7500. RPM) | 160 | 63.0 | 65.7 | 67.6 | 69.1 | 70.9 | 72.9 |
| AIREFLOW RATIO | 200 | 65.8 | 68.6 | 70.2 | 71.1 | 72.8 | 74.6 |
| WF/M | 250 | 64.2 | 68.4 | 71.2 | 71.5 | 72.8 | 75.0 |
| VEHICLE | 315 | 64.2 | 67.5 | 69.0 | 71.1 | 73.2 | 74.9 |
| CONFIG | 400 | 64.8 | 67.2 | 70.2 | 71.4 | 73.2 | 74.4 |
| LOC | 500 | 63.9 | 66.9 | 69.5 | 70.6 | 73.0 | 74.7 |
| DATE | 630 | 64.0 | 67.1 | 69.2 | 70.9 | 72.5 | 74.1 |
| RUN | 800 | 61.9 | 65.4 | 68.4 | 69.7 | 71.8 | 73.1 |
| TAPE | 1000 | 60.9 | 64.4 | 67.5 | 69.3 | 71.0 | 73.3 |
| FAN TIP SPEED | 1250 | 59.0 | 64.7 | 66.5 | 68.3 | 70.8 | 73.1 |
| FT/SEC | 1600 | 56.7 | 62.5 | 65.0 | 67.2 | 69.8 | 71.8 |
| OVERALL CALCULATED | 2000 | 52.8 | 60.5 | 62.8 | 65.6 | 68.2 | 69.1 |
| | 2500 | 47.9 | 57.1 | 59.7 | 62.5 | 65.2 | 66.3 |
| | 3150 | 41.7 | 51.0 | 55.0 | 59.1 | 61.7 | 62.3 |
| | 4000 | 31.5 | 41.7 | 47.2 | 51.0 | 56.1 | 58.8 |
| | 5000 | 24.7 | 36.7 | 41.4 | 46.4 | 50.1 | 51.3 |
| | 6300 | 10.3 | 24.4 | 32.3 | 37.0 | 41.2 | 41.5 |
| | 8000 | 4.6 | 15.6 | 21.1 | 24.0 | 25.4 | 28.3 |
| | 10000 | | | 1.6 | 3.4 | 6.2 | 0.7 |
| | 12500 | | | | | | |
| | 16000 | | | | | | |

ANGLES FROM INLET IN DEGREES (AND RADIAN) 110. 120. 130. 140. 150. 160.
 C. 0. C. 0. C. 0. C. 0. C. 0.
 (2.79) (2.62) (2.44) (2.27) (2.09) (1.92) (1.75) (1.57) (1.40) (1.22) (1.05) (0.87) (0.70)
 82.3 83.8 84.2 85.1 81.1 81.2 82.8 83.4 84.3 80.6 71.8 82.9 83.7 85.0 86.1 81.5 86.0 81.0 87.5 82.8 86.4 86.1 82.2 82.2 83.7 82.9 84.3 84.3 78.5 80.6 71.8 81.3 81.7 77.5 68.6 79.3 79.3 75.0 65.9 77.3 76.6 72.1 63.5 77.3 76.6 74.4 68.6 59.5 72.8 70.6 65.3 53.7 67.7 65.9 59.3 46.4 65.0 61.7 59.2 52.0 35.5 58.8 56.7 52.2 47.4 38.1 51.3 51.8 52.4 46.0 42.6 29.1 43.9 40.8 40.6 34.0 26.9 12.4 41.5 40.6 40.6 34.0 26.9 12.4 25.4 28.3 23.9 22.9 15.1 5.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **773** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **731.5m(2400ft.)** SIZE **FULL-.33m²(513in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO ESA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100 | 33.1 | 92.9 | 90.4 | 92.2 | 93.8 | 93.4 | 94.1 | 94.7 | 94.7 | 93.9 | 100.2 | 101.4 | 100.9 | 104.2 | 104.2 | 102.0 | 101.4 | 100.9 | 104.2 |
| 125 | 82.3 | 87.1 | 86.4 | 90.7 | 92.7 | 94.1 | 94.7 | 94.7 | 94.7 | 93.9 | 100.2 | 102.4 | 104.6 | 105.9 | 105.9 | 102.4 | 104.6 | 105.9 | 105.9 |
| 160 | 82.1 | 85.4 | 89.2 | 89.0 | 89.8 | 90.2 | 89.8 | 91.5 | 91.5 | 93.4 | 99.5 | 104.2 | 105.1 | 108.2 | 108.2 | 105.1 | 108.2 | 108.2 | 108.2 |
| 200 | 85.5 | 86.8 | 86.5 | 83.3 | 89.4 | 90.8 | 92.2 | 93.6 | 97.3 | 101.9 | 106.3 | 109.8 | 112.3 | 112.3 | 112.3 | 109.8 | 112.3 | 112.3 | 112.3 |
| 250 | 83.3 | 88.1 | 89.6 | 89.5 | 90.7 | 92.1 | 94.5 | 95.1 | 98.1 | 103.2 | 110.4 | 113.3 | 113.8 | 113.8 | 113.8 | 110.4 | 113.3 | 113.8 | 113.8 |
| 315 | 85.4 | 90.2 | 88.4 | 90.2 | 92.8 | 93.9 | 95.3 | 96.0 | 100.2 | 106.0 | 112.5 | 115.1 | 115.4 | 115.4 | 115.4 | 112.5 | 115.1 | 115.4 | 115.4 |
| 400 | 87.7 | 89.2 | 91.2 | 90.8 | 92.6 | 94.0 | 95.3 | 96.8 | 101.2 | 109.0 | 115.2 | 117.2 | 116.0 | 116.0 | 116.0 | 115.2 | 117.2 | 116.0 | 116.0 |
| 500 | 88.5 | 89.8 | 90.8 | 91.8 | 93.4 | 95.3 | 96.2 | 97.8 | 103.0 | 110.6 | 116.1 | 118.0 | 116.0 | 116.0 | 116.0 | 116.1 | 118.0 | 116.0 | 116.0 |
| 630 | 89.6 | 91.6 | 92.1 | 93.4 | 95.0 | 96.1 | 98.0 | 99.7 | 104.6 | 111.2 | 116.9 | 119.1 | 117.8 | 117.8 | 117.8 | 119.1 | 117.8 | 117.8 | 117.8 |
| 800 | 92.1 | 92.9 | 92.9 | 95.2 | 96.3 | 97.4 | 99.3 | 101.2 | 106.7 | 111.7 | 117.9 | 119.6 | 118.2 | 118.2 | 118.2 | 119.6 | 118.2 | 118.2 | 118.2 |
| 1000 | 95.2 | 96.5 | 97.2 | 97.5 | 97.1 | 98.7 | 100.4 | 102.0 | 106.7 | 112.1 | 117.5 | 119.2 | 118.0 | 118.0 | 118.0 | 119.2 | 118.0 | 118.0 | 118.0 |
| 1250 | 94.5 | 97.1 | 98.1 | 97.9 | 98.2 | 100.1 | 101.7 | 103.4 | 107.8 | 111.7 | 116.9 | 120.3 | 117.6 | 117.6 | 117.6 | 120.3 | 117.6 | 117.6 | 117.6 |
| 1600 | 96.1 | 96.7 | 96.4 | 97.2 | 98.6 | 100.2 | 100.8 | 103.2 | 108.2 | 111.5 | 117.0 | 120.4 | 117.2 | 117.2 | 117.2 | 120.4 | 117.2 | 117.2 | 117.2 |
| 2000 | 99.7 | 99.5 | 99.5 | 98.0 | 99.4 | 100.2 | 102.1 | 104.5 | 108.5 | 112.3 | 117.8 | 118.9 | 114.2 | 114.2 | 114.2 | 118.9 | 114.2 | 114.2 | 114.2 |
| 2500 | 100.3 | 101.1 | 100.9 | 100.5 | 100.6 | 103.0 | 104.9 | 109.3 | 111.9 | 117.6 | 116.8 | 111.1 | 111.1 | 111.1 | 111.1 | 116.8 | 111.1 | 111.1 | 111.1 |
| 3150 | 99.3 | 100.5 | 101.6 | 101.8 | 102.2 | 101.5 | 102.9 | 105.1 | 109.3 | 112.2 | 117.1 | 115.5 | 110.3 | 110.3 | 110.3 | 115.5 | 110.3 | 110.3 | 110.3 |
| 4000 | 96.8 | 98.1 | 99.6 | 100.1 | 101.7 | 102.3 | 103.0 | 105.6 | 108.6 | 112.7 | 114.9 | 113.3 | 108.1 | 108.1 | 108.1 | 113.3 | 108.1 | 108.1 | 108.1 |
| 5000 | 96.4 | 97.5 | 98.0 | 99.5 | 100.8 | 102.2 | 103.8 | 106.3 | 108.5 | 111.6 | 112.8 | 112.7 | 107.7 | 107.7 | 107.7 | 112.8 | 112.7 | 107.7 | 107.7 |
| 6300 | 95.7 | 97.5 | 98.8 | 99.3 | 100.9 | 102.3 | 105.2 | 108.3 | 108.6 | 111.2 | 112.1 | 111.0 | 107.3 | 107.3 | 107.3 | 112.1 | 111.0 | 107.3 | 107.3 |
| 8000 | 95.3 | 97.3 | 97.9 | 99.7 | 101.5 | 102.6 | 105.0 | 105.9 | 108.4 | 110.8 | 111.2 | 110.1 | 106.3 | 106.3 | 106.3 | 111.2 | 110.1 | 106.3 | 106.3 |
| 10000 | 94.2 | 97.3 | 96.9 | 98.4 | 101.9 | 101.5 | 103.9 | 105.1 | 108.4 | 110.8 | 111.2 | 110.1 | 106.3 | 106.3 | 106.3 | 111.2 | 110.1 | 106.3 | 106.3 |
| 12500 | 92.6 | 95.6 | 96.0 | 97.7 | 99.2 | 100.6 | 102.7 | 103.1 | 106.0 | 107.7 | 107.8 | 107.4 | 103.8 | 103.8 | 103.8 | 107.7 | 107.4 | 103.8 | 103.8 |
| 16000 | 90.9 | 93.9 | 94.6 | 96.6 | 98.6 | 99.2 | 102.1 | 101.1 | 104.9 | 105.4 | 106.0 | 105.5 | 102.7 | 102.7 | 102.7 | 105.4 | 105.5 | 102.7 | 102.7 |
| 20000 | 88.4 | 91.5 | 92.1 | 93.7 | 97.7 | 96.8 | 99.5 | 98.6 | 101.9 | 101.9 | 102.0 | 102.0 | 100.1 | 100.1 | 100.1 | 101.9 | 102.0 | 100.1 | 100.1 |
| 25000 | 85.8 | 89.1 | 88.5 | 90.8 | 93.5 | 93.5 | 95.0 | 95.9 | 99.3 | 97.9 | 97.9 | 97.3 | 97.1 | 97.1 | 97.1 | 99.3 | 97.3 | 97.1 | 97.1 |
| 31500 | 83.4 | 87.0 | 87.2 | 89.6 | 92.1 | 91.3 | 93.3 | 93.4 | 96.2 | 96.1 | 97.5 | 97.9 | 94.3 | 94.3 | 94.3 | 96.2 | 97.5 | 97.9 | 94.3 |
| 40000 | 79.6 | 83.0 | 83.1 | 85.1 | 86.9 | 87.0 | 89.2 | 88.6 | 92.7 | 94.3 | 95.4 | 95.0 | 91.0 | 91.0 | 91.0 | 92.7 | 94.3 | 95.4 | 91.0 |
| 50000 | 75.0 | 78.2 | 77.0 | 78.8 | 80.4 | 81.4 | 82.0 | 81.7 | 87.6 | 89.4 | 91.7 | 88.2 | 84.2 | 84.2 | 84.2 | 87.6 | 89.4 | 91.7 | 88.2 |
| 63000 | 72.6 | 73.7 | 71.4 | 72.0 | 75.5 | 75.9 | 75.8 | 75.5 | 82.7 | 85.1 | 88.6 | 82.7 | 79.4 | 79.4 | 79.4 | 82.7 | 85.1 | 88.6 | 82.7 |
| 80000 | 67.6 | 71.0 | 68.3 | 66.3 | 72.7 | 73.3 | 73.8 | 73.8 | 69.5 | 79.0 | 83.4 | 84.2 | 77.2 | 77.2 | 77.2 | 69.5 | 79.0 | 83.4 | 84.2 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 108.3 | 109.8 | 110.3 | 111.0 | 112.3 | 113.1 | 115.0 | 116.4 | 120.0 | 123.6 | 128.1 | 129.6 | 127.3 | 127.3 | 127.3 | 128.1 | 129.6 | 127.3 | 127.3 |
| DF/DM | 1.00 | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 774 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

| FREQ. | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
| NO. EGA | (0.77) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.14) |
| RDG. NO. | 85.6 | 89.9 | 91.4 | 91.5 | 92.6 | 93.9 | 96.3 | 97.0 | 99.9 | 105.0 | 112.2 | 115.1 | 115.7 | 163.0 | 163.0 |
| RADIAL 150. FT. | 80 | 87.2 | 92.0 | 90.3 | 92.1 | 94.7 | 95.8 | 97.2 | 98.6 | 102.0 | 107.8 | 114.5 | 117.3 | 161.9 | 161.9 |
| (46. M) | 100 | 89.5 | 91.0 | 93.1 | 92.6 | 94.4 | 95.8 | 97.2 | 98.6 | 103.1 | 110.9 | 117.1 | 119.0 | 163.8 | 163.8 |
| VEHICLE | 125 | 91.5 | 93.5 | 94.0 | 95.3 | 96.9 | 98.0 | 99.9 | 101.5 | 106.5 | 113.1 | 118.8 | 120.9 | 164.6 | 164.6 |
| CONFIG | 160 | 94.0 | 94.7 | 94.8 | 97.0 | 98.1 | 99.2 | 101.1 | 103.0 | 108.5 | 113.6 | 119.8 | 120.9 | 165.6 | 165.6 |
| LOC | 200 | 97.0 | 98.3 | 99.1 | 99.4 | 99.0 | 100.6 | 102.2 | 103.9 | 108.6 | 113.9 | 119.4 | 121.0 | 166.3 | 166.3 |
| DATE | 250 | 96.4 | 98.9 | 99.9 | 99.7 | 100.1 | 101.9 | 103.6 | 105.2 | 109.7 | 113.5 | 118.7 | 122.1 | 166.5 | 166.5 |
| RUN | 315 | 98.0 | 98.5 | 98.3 | 99.1 | 100.4 | 102.0 | 102.7 | 105.1 | 110.0 | 113.4 | 118.8 | 122.2 | 166.1 | 166.1 |
| TAPE | 400 | 101.5 | 101.3 | 101.3 | 99.9 | 101.2 | 102.1 | 104.0 | 106.4 | 110.3 | 114.2 | 119.6 | 120.8 | 165.3 | 165.3 |
| BAR | 500 | 102.2 | 103.0 | 103.2 | 102.8 | 102.3 | 102.5 | 104.8 | 106.8 | 111.2 | 113.8 | 119.5 | 118.7 | 165.0 | 165.0 |
| (99246. N/M2) | 630 | 101.2 | 102.5 | 103.5 | 103.8 | 104.1 | 103.5 | 104.8 | 107.0 | 111.2 | 114.1 | 119.0 | 117.4 | 163.8 | 163.8 |
| TAMB | 800 | 98.7 | 100.0 | 101.6 | 102.1 | 103.7 | 104.3 | 104.9 | 107.6 | 110.6 | 114.7 | 116.9 | 115.3 | 162.9 | 162.9 |
| (294. DEG K) | 1250 | 97.8 | 99.6 | 100.9 | 101.4 | 103.0 | 104.4 | 107.2 | 108.4 | 113.7 | 113.3 | 114.2 | 113.1 | 162.6 | 162.6 |
| (290. DEG K) | 1600 | 97.5 | 99.6 | 100.1 | 101.9 | 103.7 | 104.8 | 107.2 | 108.1 | 110.6 | 113.0 | 112.3 | 108.6 | 162.4 | 162.4 |
| HACT | 2000 | 96.6 | 99.7 | 99.3 | 100.8 | 104.4 | 104.0 | 106.4 | 107.6 | 110.8 | 111.5 | 112.4 | 112.0 | 161.8 | 161.8 |
| (.01259 KG/M3) | 2500 | 95.4 | 98.4 | 98.8 | 100.5 | 102.0 | 103.4 | 105.5 | 105.9 | 108.8 | 110.5 | 110.6 | 110.2 | 159.7 | 159.7 |
| FREQ. SHIFT | 3150 | 94.3 | 97.3 | 98.0 | 99.9 | 102.0 | 102.6 | 105.6 | 105.2 | 108.2 | 108.8 | 109.4 | 106.9 | 157.7 | 157.7 |
| JET | 4000 | 92.5 | 95.5 | 96.2 | 97.8 | 101.8 | 100.9 | 103.6 | 102.6 | 105.9 | 106.0 | 106.1 | 106.3 | 156.1 | 156.1 |
| DIAMETER RATIO | 5000 | 91.1 | 94.4 | 93.8 | 96.1 | 98.8 | 98.8 | 100.3 | 101.3 | 104.6 | 103.3 | 106.6 | 102.6 | 156.1 | 156.1 |
| DF/DM 4.63 | 6300 | 90.3 | 93.9 | 94.1 | 96.6 | 99.1 | 98.3 | 100.2 | 100.3 | 103.1 | 103.0 | 104.5 | 104.8 | 155.3 | 155.3 |
| OVERALL CALCULATED | 8000 | 88.9 | 92.2 | 92.4 | 94.4 | 96.2 | 96.2 | 98.5 | 97.9 | 101.9 | 103.6 | 104.6 | 104.2 | 156.9 | 156.9 |
| | 10000 | 87.3 | 90.6 | 89.4 | 91.1 | 92.7 | 93.8 | 94.3 | 94.0 | 99.9 | 101.7 | 104.0 | 100.5 | 162.8 | 162.8 |
| | 12500 | 87.4 | 90.5 | 88.2 | 88.8 | 92.3 | 92.7 | 92.5 | 92.3 | 99.4 | 101.9 | 105.4 | 99.5 | 177.5 | 177.5 |
| | 16000 | 90.9 | 94.1 | 91.4 | 89.4 | 95.8 | 96.4 | 96.9 | 92.6 | 102.1 | 106.5 | 107.3 | 100.5 | | |
| | PNDR | 120.7 | 123.1 | 123.6 | 125.0 | 126.8 | 127.4 | 129.7 | 130.1 | 133.7 | 135.8 | 138.0 | 138.5 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 774 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| NO EGA
SIDELINE 2400 FT.
(731.524) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|--|------|------|------|------|------|------|------|------|------|-------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 57.5 | 63.3 | 65.9 | 66.7 | 68.2 | 69.7 | 71.9 | 72.2 | 74.4 | 78.4 | 84.0 | 84.7 | 81.8 |
| 63 | 59.0 | 65.4 | 64.7 | 67.2 | 70.2 | 71.5 | 72.7 | 73.0 | 76.5 | 81.2 | 86.1 | 86.5 | 83.2 |
| 80 | 61.2 | 64.3 | 67.4 | 67.7 | 70.0 | 71.5 | 72.7 | 73.7 | 77.4 | 84.1 | 88.7 | 88.4 | 83.6 |
| 100 | 61.9 | 64.8 | 66.9 | 68.7 | 70.7 | 72.7 | 73.5 | 74.7 | 79.2 | 85.6 | 89.5 | 89.1 | 83.5 |
| 125 | 62.9 | 66.5 | 68.2 | 70.2 | 72.2 | 73.5 | 75.2 | 76.5 | 83.7 | 86.1 | 90.2 | 90.0 | 84.3 |
| 160 | 65.2 | 67.7 | 68.8 | 71.9 | 73.4 | 74.6 | 76.4 | 77.9 | 82.6 | 86.5 | 91.0 | 90.3 | 85.0 |
| 200 | 66.1 | 71.1 | 73.0 | 74.1 | 74.1 | 75.8 | 77.3 | 78.6 | 82.5 | 86.7 | 90.4 | 89.6 | 84.5 |
| 250 | 67.2 | 71.4 | 73.7 | 74.2 | 75.0 | 77.0 | 78.5 | 79.7 | 83.4 | 86.0 | 89.5 | 90.4 | 83.5 |
| 315 | 68.4 | 70.8 | 71.8 | 73.4 | 75.2 | 76.9 | 77.4 | 79.4 | 83.5 | 85.6 | 89.3 | 90.0 | 82.5 |
| 400 | 71.6 | 73.2 | 74.5 | 73.9 | 75.7 | 76.7 | 78.4 | 80.4 | 83.5 | 86.1 | 89.6 | 88.0 | 78.7 |
| 500 | 71.6 | 74.4 | 76.0 | 76.4 | 76.5 | 76.7 | 79.0 | 80.4 | 84.0 | 85.2 | 89.0 | 85.2 | 74.6 |
| 630 | 70.0 | 73.3 | 75.8 | 76.9 | 77.8 | 77.3 | 78.5 | 80.2 | 83.5 | 84.9 | 87.8 | 83.1 | 72.5 |
| 800 | 66.6 | 70.2 | 73.2 | 74.7 | 76.8 | 77.6 | 78.0 | 80.2 | 82.2 | 84.8 | 84.7 | 79.7 | 68.6 |
| 1000 | 65.2 | 68.6 | 70.8 | 73.3 | 75.2 | 76.8 | 78.2 | 80.1 | 81.3 | 82.8 | 81.6 | 77.7 | 66.2 |
| 1250 | 63.2 | 67.7 | 70.7 | 72.3 | 74.5 | 76.1 | 78.8 | 79.3 | 80.5 | 81.4 | 79.7 | 74.4 | 63.3 |
| 1600 | 61.0 | 66.0 | 68.5 | 71.5 | 74.0 | 75.4 | 77.5 | 77.8 | 79.0 | 79.5 | 77.0 | 71.1 | 58.8 |
| 2000 | 57.8 | 64.3 | 66.1 | 68.9 | 73.2 | 73.1 | 75.2 | 75.7 | 77.6 | 76.0 | 73.6 | 67.8 | 54.0 |
| 2500 | 53.2 | 60.1 | 63.0 | 66.3 | 68.7 | 70.4 | 72.2 | 71.7 | 73.0 | 72.2 | 68.5 | 61.6 | 46.0 |
| 3150 | 46.7 | 54.6 | 58.3 | 62.1 | 65.2 | 66.2 | 68.7 | 66.7 | 68.6 | 66.0 | 61.8 | 53.3 | 35.1 |
| 4000 | 36.9 | 46.1 | 50.6 | 54.6 | 59.9 | 59.4 | 61.7 | 59.4 | 60.4 | 56.5 | 50.5 | 40.0 | 17.7 |
| 5000 | 30.8 | 41.1 | 44.8 | 49.8 | 54.0 | 54.4 | 55.5 | 54.9 | 55.6 | 49.9 | 46.3 | 30.5 | 7.0 |
| 6300 | 16.2 | 29.1 | 35.1 | 41.0 | 45.4 | 45.2 | 46.5 | 44.8 | 44.1 | 38.2 | 30.4 | 14.9 | |
| 8000 | | 9.9 | 17.9 | 24.7 | 29.1 | 29.9 | 31.3 | 28.2 | 27.4 | 21.2 | 9.5 | | |
| 10000 | | | 1.6 | 6.8 | 9.0 | 8.4 | 4.6 | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 79.0 | 82.1 | 84.0 | 85.3 | 86.8 | 87.9 | 89.4 | 90.7 | 93.8 | 96.8 | 100.2 | 99.4 | 93.5 |
| P. DB | 34.6 | 38.4 | 40.6 | 42.4 | 45.0 | 45.8 | 47.6 | 48.2 | 50.6 | 52.0 | 54.3 | 52.4 | 44.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 774 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| | | PRC. DATE - MONTH 8 DAY 26 HR. 18.5 | | | | | | | | | | | | | | | |
|--------------------|------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|-------|
| | | F. 70 PERCENT REL. HUM. DAY - JENOTS | | | | | | | | | | | | | | | |
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | C. | G. | O. | PdL |
| | | (C.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (0.) | (0.) | (0.) | (0.) |
| RDG. NO. | NO EGA | 76.1 | 84.7 | 82.2 | 84.2 | 85.3 | 86.2 | 86.0 | 86.5 | 88.2 | 92.7 | 93.7 | 95.6 | | | | 137.2 |
| | RADIAL (12. M) | 73.3 | 78.1 | 79.9 | 81.9 | 85.2 | 84.6 | 85.7 | 83.7 | 82.4 | 92.9 | 94.9 | 95.6 | | | | 129.7 |
| | VEHICLE CELL41 | 73.6 | 76.7 | 79.4 | 79.5 | 81.5 | 80.7 | 82.3 | 83.5 | 88.4 | 93.5 | 95.2 | 97.4 | | | | 130.1 |
| | CONFIG NC53 | 200 | 76.3 | 77.3 | 78.8 | 80.1 | 81.9 | 82.2 | 84.7 | 86.6 | 89.5 | 95.6 | 100.1 | 101.3 | | | 133.5 |
| | LOC C41 ANECH CH | 250 | 75.8 | 78.6 | 79.6 | 79.9 | 83.2 | 84.8 | 86.5 | 87.6 | 91.3 | 98.7 | 101.1 | 102.5 | | | 135.1 |
| | DATE 06-08-76 | 315 | 76.9 | 80.4 | 79.7 | 82.5 | 85.6 | 85.7 | 87.6 | 89.5 | 93.2 | 100.5 | 103.7 | 104.1 | | | 137.1 |
| | RUN CONF7HIGHFLW | 400 | 78.9 | 80.5 | 82.0 | 83.0 | 86.1 | 86.5 | 89.1 | 91.5 | 95.7 | 101.5 | 104.0 | 103.9 | | | 137.7 |
| | TAPE X07750 | 500 | 79.3 | 80.8 | 82.3 | 83.6 | 87.2 | 87.5 | 89.7 | 92.6 | 97.3 | 102.1 | 104.1 | 103.0 | | | 137.9 |
| | BAR 29-4 HG | 630 | 80.6 | 82.6 | 83.1 | 84.7 | 87.8 | 88.9 | 91.3 | 93.9 | 97.4 | 101.7 | 102.4 | 100.6 | | | 137.1 |
| | (99381. N/M2) | 800 | 81.6 | 83.7 | 84.2 | 86.2 | 88.8 | 89.9 | 92.0 | 94.9 | 98.4 | 102.2 | 101.4 | 99.1 | | | 137.3 |
| | TAMB 64. DEG F | 1000 | 83.2 | 84.2 | 85.7 | 86.8 | 89.9 | 91.0 | 93.1 | 95.0 | 98.5 | 101.3 | 99.8 | 97.9 | | | 136.8 |
| | (291. DEG K) | 1250 | 83.0 | 85.1 | 87.1 | 87.4 | 93.2 | 91.1 | 93.9 | 96.4 | 98.6 | 100.4 | 99.6 | 97.8 | | | 136.8 |
| | TWET 59. DEG F | 1600 | 83.1 | 85.7 | 86.4 | 87.5 | 90.8 | 91.4 | 93.6 | 96.0 | 98.7 | 100.5 | 98.7 | 97.1 | | | 136.7 |
| | (288. DEG K) | 2000 | 83.2 | 85.2 | 87.0 | 87.5 | 90.8 | 92.5 | 94.3 | 96.3 | 97.7 | 100.1 | 98.5 | 96.2 | | | 136.5 |
| | HACTIC.98 GM/M3 | 2500 | 83.8 | 86.6 | 87.8 | 88.9 | 91.0 | 91.8 | 94.2 | 96.6 | 98.9 | 98.4 | 96.8 | | | | 136.2 |
| | (.01098 KG/M3) | 3150 | 83.7 | 87.3 | 87.8 | 91.6 | 95.9 | 93.5 | 95.4 | 97.6 | 98.3 | 98.9 | 102.6 | 102.5 | | | 138.8 |
| | FREQ. SHIFT | 4000 | 82.5 | 84.8 | 86.3 | 87.1 | 90.7 | 92.1 | 94.7 | 96.1 | 96.1 | 96.4 | 95.9 | 94.3 | | | 135.3 |
| | JET 0 | 5000 | 82.1 | 84.7 | 85.5 | 87.3 | 90.6 | 91.5 | 94.6 | 95.3 | 94.7 | 96.1 | 94.8 | 95.9 | | | 134.9 |
| | DIAPHRAGM RATIO | 6300 | 81.5 | 84.8 | 85.6 | 87.1 | 91.2 | 92.8 | 93.9 | 95.1 | 94.1 | 95.2 | 94.6 | 98.0 | | | 135.1 |
| | OF/DM 1.00 | 8000 | 80.5 | 83.4 | 83.9 | 86.4 | 90.8 | 92.6 | 93.8 | 94.9 | 94.2 | 94.6 | 94.7 | 99.1 | | | 135.3 |
| | 10000 | 78.9 | 83.1 | 83.2 | 85.6 | 89.2 | 91.1 | 92.7 | 94.1 | 92.9 | 93.1 | 94.5 | 99.3 | | | | 134.7 |
| | 12500 | 75.9 | 80.9 | 81.8 | 84.2 | 87.8 | 89.6 | 90.9 | 91.7 | 90.3 | 91.5 | 93.1 | 98.7 | | | | 133.7 |
| | 16000 | 74.5 | 79.5 | 80.2 | 82.9 | 86.2 | 88.8 | 89.0 | 90.7 | 88.7 | 89.3 | 91.9 | 97.4 | | | | 133.0 |
| | 20000 | 71.5 | 76.9 | 77.8 | 79.6 | 83.9 | 87.2 | 85.4 | 87.4 | 85.2 | 85.9 | 88.2 | 94.4 | | | | 131.1 |
| | 25000 | 63.7 | 75.5 | 74.7 | 77.0 | 80.6 | 81.3 | 82.8 | 85.0 | 81.2 | 84.0 | 83.2 | 86.2 | | | | 128.9 |
| | 31500 | 67.1 | 75.0 | 75.5 | 76.9 | 79.0 | 80.1 | 80.3 | 80.6 | 77.4 | 79.2 | 82.1 | 86.2 | | | | 128.4 |
| | 40000 | 62.1 | 70.8 | 73.2 | 74.7 | 75.5 | 76.8 | 75.0 | 76.2 | 73.5 | 74.5 | 76.7 | 81.0 | | | | 127.6 |
| | 50000 | 54.8 | 63.3 | 66.2 | 67.4 | 68.6 | 67.5 | 67.5 | 68.7 | 65.9 | 68.6 | 67.9 | 72.8 | | | | 124.2 |
| | 63000 | 47.2 | 55.8 | 60.3 | 59.7 | 60.9 | 59.4 | 59.4 | 59.7 | 57.6 | 61.4 | 59.6 | 65.4 | | | | 122.8 |
| | 80000 | 39.6 | 48.4 | 55.4 | 52.7 | 54.4 | 54.7 | 51.6 | 52.3 | 50.4 | 56.9 | 52.1 | 56.8 | | | | 125.7 |
| OVERALL MEASURED | | 94.3 | 97.2 | 98.1 | 99.7 | 103.1 | 103.9 | 105.8 | 107.6 | 109.2 | 112.3 | 113.3 | 113.5 | | | | 149.6 |
| OVERALL CALCULATED | | 107.3 | 110.3 | 111.1 | 113.5 | 117.2 | 116.8 | 119.7 | 120.7 | 121.8 | 123.8 | 125.4 | 125.4 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 775 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ. | (0.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.15) | (3.33) | (3.51) |
| NO EGA | 50 | 77.6 | 80.4 | 81.4 | 81.7 | 85.1 | 86.7 | 88.3 | 89.5 | 93.2 | 100.5 | 102.9 | 104.4 | 105.4 | 106.4 | 107.4 |
| RDG. NO. | 63 | 78.7 | 82.3 | 81.5 | 84.3 | 87.4 | 87.5 | 89.4 | 91.5 | 95.0 | 102.3 | 105.5 | 106.5 | 107.5 | 108.5 | 109.5 |
| RADIAL 150. FT. | 80 | 80.3 | 82.3 | 83.8 | 84.8 | 87.9 | 88.3 | 90.9 | 93.3 | 97.5 | 103.4 | 105.8 | 105.8 | 106.8 | 107.8 | 108.8 |
| (46. M) | 100 | 81.6 | 82.6 | 84.1 | 85.4 | 89.0 | 89.4 | 91.5 | 94.4 | 99.1 | 103.9 | 105.9 | 104.8 | 105.8 | 106.8 | 107.8 |
| VEHICLE | 125 | 82.5 | 84.5 | 85.0 | 86.5 | 90.7 | 91.5 | 93.1 | 95.8 | 99.2 | 103.6 | 104.3 | 102.4 | 103.4 | 104.4 | 105.4 |
| CELL41 | 160 | 83.5 | 85.5 | 86.0 | 88.0 | 90.6 | 91.7 | 93.9 | 96.8 | 100.3 | 104.1 | 103.3 | 101.3 | 102.3 | 103.3 | 104.3 |
| CONF1 | 200 | 85.0 | 86.1 | 87.6 | 88.6 | 91.7 | 92.8 | 95.0 | 96.9 | 100.3 | 103.2 | 101.6 | 99.8 | 100.8 | 101.8 | 102.8 |
| LOC C41 ANECH CH | 250 | 84.9 | 86.9 | 88.9 | 89.2 | 92.1 | 92.9 | 95.8 | 98.2 | 103.4 | 103.2 | 101.5 | 99.6 | 100.6 | 101.6 | 102.6 |
| DATE C6-08-76 | 315 | 85.0 | 87.5 | 88.3 | 89.3 | 92.7 | 93.3 | 95.4 | 97.8 | 100.5 | 102.4 | 100.6 | 99.0 | 100.0 | 101.0 | 102.0 |
| RUN CONF7HIGHFLW | 400 | 85.0 | 87.1 | 88.8 | 89.4 | 92.7 | 94.3 | 96.2 | 98.1 | 99.6 | 101.9 | 100.4 | 98.0 | 99.0 | 100.0 | 101.0 |
| TAPE X07750 | 500 | 85.7 | 88.4 | 89.7 | 90.7 | 92.8 | 93.7 | 96.1 | 98.5 | 100.8 | 100.8 | 104.5 | 104.4 | 105.4 | 106.4 | 107.4 |
| BAR 29.4 HG | 630 | 85.7 | 89.2 | 89.7 | 93.5 | 92.8 | 95.5 | 97.3 | 99.5 | 100.2 | 100.8 | 104.5 | 104.4 | 105.4 | 106.4 | 107.4 |
| (99381. N/M2) | 800 | 84.5 | 86.8 | 88.3 | 89.1 | 92.7 | 94.0 | 96.7 | 98.1 | 98.1 | 98.4 | 97.9 | 96.3 | 97.3 | 98.3 | 99.3 |
| TAMB 64. DEG F | 1000 | 84.1 | 86.7 | 87.5 | 89.2 | 92.6 | 93.4 | 96.6 | 97.2 | 96.7 | 98.1 | 96.8 | 97.9 | 98.9 | 99.9 | 100.9 |
| (291. DEG K) | 1250 | 83.5 | 86.9 | 87.7 | 89.2 | 93.3 | 94.9 | 96.0 | 97.2 | 96.2 | 97.3 | 96.7 | 100.1 | 101.1 | 102.1 | 103.1 |
| TWET 59. DEG F | 1600 | 82.7 | 85.6 | 86.2 | 88.7 | 93.0 | 94.8 | 96.0 | 97.2 | 96.4 | 96.8 | 97.0 | 101.3 | 102.3 | 103.3 | 104.3 |
| (288. DEG K) | 2000 | 81.4 | 85.5 | 85.6 | 88.1 | 91.7 | 93.5 | 95.2 | 96.6 | 95.4 | 95.5 | 96.9 | 101.8 | 102.8 | 103.8 | 104.8 |
| HACT10.98 GM/M3 | 2500 | 78.7 | 83.7 | 84.6 | 87.0 | 90.5 | 92.4 | 93.7 | 94.5 | 93.1 | 94.3 | 95.9 | 101.5 | 102.5 | 103.5 | 104.5 |
| (.01098 KG/M3) | 3150 | 77.8 | 83.1 | 83.6 | 86.3 | 89.5 | 92.1 | 92.3 | 94.0 | 92.1 | 92.6 | 95.2 | 103.7 | 104.7 | 105.7 | 106.7 |
| FREQ. SHIFT | 4000 | 75.6 | 80.9 | 81.8 | 83.7 | 87.9 | 91.3 | 89.5 | 91.5 | 89.3 | 90.0 | 92.3 | 98.4 | 99.4 | 100.4 | 101.4 |
| JET 7 | 5000 | 74.0 | 80.9 | 80.0 | 82.3 | 85.9 | 86.6 | 88.2 | 90.3 | 86.5 | 89.3 | 88.5 | 95.1 | 96.1 | 97.1 | 98.1 |
| DIAMETER RATIO | 6300 | 74.0 | 81.9 | 82.4 | 83.8 | 85.9 | 87.0 | 87.2 | 87.6 | 84.4 | 86.1 | 89.0 | 93.1 | 94.1 | 95.1 | 96.1 |
| DF70M 4.63 | 8000 | 71.4 | 80.0 | 82.5 | 84.0 | 84.8 | 86.0 | 84.2 | 85.5 | 82.7 | 83.8 | 86.0 | 90.3 | 91.3 | 92.3 | 93.3 |
| | 10000 | 67.1 | 75.7 | 78.5 | 79.7 | 80.9 | 79.9 | 79.8 | 81.0 | 78.2 | 81.0 | 80.2 | 85.1 | 86.1 | 87.1 | 88.1 |
| | 12500 | 64.0 | 72.6 | 77.1 | 76.5 | 77.7 | 76.6 | 76.2 | 76.5 | 74.3 | 78.2 | 76.4 | 82.2 | 83.2 | 84.2 | 85.2 |
| | 16000 | 62.7 | 71.5 | 78.6 | 75.9 | 77.5 | 77.8 | 74.7 | 75.4 | 73.5 | 80.1 | 75.2 | 80.0 | 81.0 | 82.0 | 83.0 |
| OVERALL CALCULATED | 96.2 | 99.0 | 100.0 | 101.7 | 105.1 | 105.9 | 107.8 | 109.6 | 111.0 | 114.0 | 114.9 | 115.1 | 116.1 | 117.1 | 118.1 | 119.1 |
| PNOB | 105.5 | 109.7 | 110.5 | 112.5 | 115.8 | 117.4 | 118.5 | 120.1 | 119.7 | 121.4 | 122.4 | 123.4 | 124.4 | 125.4 | 126.4 | 127.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 775 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

+ 80° spectra missing, see repeat data point

| NO EGA
SIDE LINE 2400 - FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | |
|--|-------|--------------------------|------|------|------|------|--|------|------|------|------|------|------|
| | | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 50.5 | 53.8 | 55.9 | 56.9 | 60.8 | 62.3 | 63.5 | 63.9 | 66.6 | 72.3 | 72.5 | 72.5 | 70.5 |
| 80 | 52.4 | 55.6 | 58.2 | 59.9 | 63.6 | 63.8 | 66.0 | 67.7 | 72.8 | 75.0 | 75.2 | 71.6 | 72.0 |
| 120 | 53.2 | 55.8 | 58.4 | 60.4 | 64.6 | 64.8 | 66.5 | 68.7 | 72.3 | 75.5 | 75.1 | 70.5 | 70.5 |
| 160 | 53.9 | 57.5 | 59.2 | 61.5 | 65.1 | 66.1 | 68.1 | 70.0 | 72.3 | 75.0 | 73.3 | 67.8 | 67.8 |
| 200 | 54.7 | 58.4 | 60.1 | 62.9 | 66.0 | 67.0 | 68.7 | 70.9 | 73.2 | 75.3 | 72.1 | 66.0 | 66.0 |
| 250 | 55.7 | 59.4 | 62.6 | 63.7 | 67.2 | 67.9 | 70.3 | 71.9 | 73.0 | 73.0 | 69.7 | 63.8 | 63.8 |
| 315 | 55.4 | 59.8 | 61.8 | 63.6 | 67.6 | 68.0 | 69.7 | 71.3 | 72.8 | 72.8 | 68.4 | 62.5 | 62.5 |
| 400 | 55.0 | 59.0 | 62.0 | 63.4 | 67.3 | 68.8 | 70.2 | 71.3 | 71.5 | 71.9 | 67.6 | 60.7 | 60.7 |
| 500 | 55.1 | 59.9 | 62.5 | 64.4 | 67.1 | 67.8 | 69.7 | 71.3 | 69.9 | 70.3 | 66.8 | 60.3 | 60.3 |
| 630 | 54.5 | 60.1 | 62.0 | 66.7 | 66.0 | 67.1 | 69.2 | 69.7 | 68.2 | 66.3 | 62.3 | 54.8 | 54.8 |
| 800 | 52.4 | 56.9 | 59.9 | 61.7 | 66.0 | 66.4 | 66.9 | 67.0 | 64.2 | 62.7 | 58.0 | 54.0 | 54.0 |
| 1000 | 50.9 | 55.9 | 58.3 | 61.1 | 65.2 | 65.9 | 68.4 | 68.1 | 65.9 | 64.9 | 59.8 | 54.4 | 54.4 |
| 1250 | 49.0 | 54.9 | 57.5 | 60.1 | 65.0 | 66.4 | 66.9 | 67.0 | 64.2 | 62.7 | 58.0 | 54.0 | 54.0 |
| 1600 | 46.3 | 52.1 | 54.6 | 58.3 | 63.5 | 65.2 | 65.6 | 65.6 | 62.9 | 60.3 | 55.7 | 51.5 | 51.5 |
| 2000 | 42.6 | 50.1 | 52.3 | 56.2 | 60.8 | 62.4 | 63.2 | 63.3 | 59.9 | 56.7 | 52.7 | 47.5 | 47.5 |
| 2500 | 36.5 | 45.4 | 48.8 | 52.9 | 57.6 | 59.1 | 59.6 | 58.8 | 54.8 | 52.1 | 47.3 | 40.8 | 40.8 |
| TAPE | 3150 | 30.3 | 40.4 | 43.9 | 48.5 | 53.1 | 55.4 | 54.6 | 49.6 | 45.1 | 39.7 | 29.7 | 29.7 |
| FAN TIP SPEED | 6000 | 20.0 | 31.5 | 36.2 | 40.5 | 46.5 | 49.4 | 46.3 | 45.9 | 39.8 | 34.3 | 26.2 | 11.9 |
| FT/SEC | 5000 | 13.7 | 27.5 | 31.2 | 36.0 | 41.5 | 41.8 | 41.3 | 33.2 | 29.0 | 16.4 | 12.1 | 12.1 |
| 8000 | 17.1 | 23.3 | 28.2 | 32.9 | 33.3 | 31.6 | 28.5 | 19.6 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| 10000 | 8.0 | 14.3 | 18.5 | 18.9 | 14.5 | 11.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | PNDR | 65.6 | 69.8 | 72.2 | 74.5 | 78.5 | 78.9 | 80.6 | 81.8 | 82.8 | 84.6 | 83.1 | 78.8 |
| | | 69.4 | 74.8 | 77.5 | 80.8 | 85.4 | 85.9 | 86.8 | 87.5 | 86.9 | 87.1 | 84.4 | 78.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 775 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²).

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
 F 70 PERCENT REL. HUM. DAY - JENOTS
 ANGLES FROM INLET IN DEGREES (AND RADIIANS)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 160. 0. 0. 0. 0. 0. 0. P/L
 FREQ. (0.70)(0.87)(1.05)(1.22)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(2.99)(3.20)(3.42)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | P/L | |
|----------|--------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|----|----|----|----|----|-------|-------|
| 100 | 88.6 | 93.7 | 96.7 | 99.5 | 81.8 | 89.4 | 85.5 | 88.5 | 91.2 | 92.7 | 92.7 | 92.7 | 92.7 | 91.9 | | | | | | 135.9 | |
| 125 | 84.1 | 94.6 | 98.9 | 100.7 | 80.7 | 83.4 | 84.2 | 87.9 | 90.4 | 93.4 | 92.9 | 91.8 | | | | | | | | | 136.9 |
| 160 | 89.6 | 95.7 | 99.4 | 103.0 | 80.8 | 81.9 | 84.3 | 85.7 | 86.9 | 89.0 | 88.2 | 88.9 | | | | | | | | | 138.2 |
| 200 | 91.3 | 97.8 | 104.5 | 107.1 | 82.9 | 82.3 | 82.4 | 86.1 | 87.8 | 90.1 | 90.3 | 91.0 | | | | | | | | | 142.3 |
| 250 | 93.3 | 101.1 | 106.3 | 108.1 | 82.5 | 84.8 | 84.5 | 85.9 | 88.6 | 90.9 | 92.4 | 93.0 | | | | | | | | | 143.7 |
| 315 | 95.9 | 103.2 | 108.9 | 110.0 | 83.8 | 86.7 | 84.3 | 88.2 | 91.7 | 93.3 | 93.5 | 93.9 | | | | | | | | | 145.7 |
| 400 | 98.2 | 105.7 | 110.2 | 110.7 | 86.1 | 86.2 | 87.1 | 88.2 | 90.7 | 93.5 | 93.5 | 95.2 | | | | | | | | | 146.8 |
| 500 | 99.3 | 105.5 | 110.5 | 110.3 | 87.2 | 86.0 | 86.9 | 88.8 | 91.3 | 94.4 | 94.8 | 96.0 | | | | | | | | | 146.7 |
| 630 | 100.4 | 105.4 | 110.6 | 110.4 | 87.8 | 87.9 | 87.5 | 90.2 | 92.9 | 95.5 | 95.9 | 97.6 | | | | | | | | | 146.9 |
| 800 | 100.9 | 105.4 | 109.4 | 109.7 | 89.5 | 89.4 | 89.3 | 91.4 | 94.4 | 97.0 | 97.4 | 98.9 | | | | | | | | | 146.2 |
| 1000 | 101.0 | 104.7 | 107.0 | 108.8 | 91.9 | 91.7 | 90.9 | 93.5 | 95.7 | 98.3 | 98.3 | 99.7 | | | | | | | | | 145.1 |
| 1250 | 101.5 | 104.3 | 107.1 | 107.4 | 91.7 | 91.1 | 91.9 | 93.6 | 95.6 | 98.9 | 99.1 | 100.8 | | | | | | | | | 144.5 |
| 1600 | 101.4 | 104.4 | 106.7 | 107.5 | 92.1 | 91.7 | 90.8 | 93.7 | 96.4 | 99.8 | 99.2 | 100.6 | | | | | | | | | 144.5 |
| 2000 | 100.9 | 104.0 | 106.5 | 106.3 | 93.3 | 92.5 | 92.3 | 94.0 | 97.2 | 99.6 | 100.3 | 102.2 | | | | | | | | | 144.1 |
| 2500 | 99.8 | 103.3 | 106.3 | 106.4 | 94.7 | 93.8 | 93.5 | 95.6 | 97.1 | 99.7 | 100.4 | 102.3 | | | | | | | | | 144.2 |
| 3150 | 100.0 | 103.8 | 106.6 | 106.1 | 94.4 | 94.0 | 93.9 | 96.1 | 98.3 | 99.9 | 100.6 | 102.8 | | | | | | | | | 143.5 |
| 4000 | 99.5 | 101.8 | 106.1 | 104.6 | 93.2 | 93.1 | 93.2 | 95.9 | 98.6 | 100.7 | 100.9 | 102.8 | | | | | | | | | 143.3 |
| 5000 | 97.9 | 102.0 | 105.2 | 104.8 | 93.1 | 93.0 | 92.3 | 95.3 | 98.0 | 101.3 | 101.5 | 103.2 | | | | | | | | | 143.3 |
| 6300 | 97.2 | 101.5 | 105.3 | 104.1 | 92.7 | 92.5 | 92.4 | 95.1 | 98.1 | 101.4 | 102.4 | 103.0 | | | | | | | | | 143.3 |
| 8000 | 96.8 | 100.3 | 104.7 | 103.9 | 92.0 | 91.8 | 91.5 | 94.7 | 98.4 | 101.0 | 102.5 | 103.1 | | | | | | | | | 142.7 |
| 10000 | 95.7 | 99.0 | 103.9 | 103.6 | 90.9 | 92.0 | 90.2 | 93.9 | 98.1 | 99.6 | 101.2 | 102.1 | | | | | | | | | 141.6 |
| 12500 | 93.4 | 96.9 | 102.0 | 102.2 | 89.2 | 90.4 | 89.3 | 92.5 | 95.7 | 98.7 | 100.3 | 99.5 | | | | | | | | | 141.2 |
| 16000 | 91.3 | 95.0 | 100.7 | 100.9 | 86.8 | 88.7 | 87.6 | 91.6 | 94.9 | 97.2 | 99.3 | 98.4 | | | | | | | | | 139.3 |
| 20000 | 87.8 | 91.2 | 97.0 | 98.3 | 84.5 | 85.3 | 85.1 | 89.1 | 93.9 | 95.0 | 97.4 | 94.3 | | | | | | | | | 137.5 |
| 25000 | 83.2 | 88.7 | 92.9 | 95.4 | 81.5 | 83.2 | 81.3 | 84.9 | 90.1 | 92.2 | 92.3 | 92.0 | | | | | | | | | 137.8 |
| 31500 | 79.5 | 84.2 | 92.1 | 93.3 | 79.6 | 81.3 | 80.1 | 84.2 | 88.2 | 90.5 | 91.4 | 89.3 | | | | | | | | | 137.0 |
| 40000 | 75.3 | 80.1 | 88.6 | 89.3 | 74.9 | 76.3 | 76.8 | 80.5 | 83.5 | 86.3 | 87.0 | 84.3 | | | | | | | | | 134.9 |
| 50000 | 67.6 | 73.6 | 80.9 | 83.4 | 68.6 | 70.1 | 69.8 | 74.4 | 76.3 | 80.8 | 77.4 | 77.4 | | | | | | | | | 134.4 |
| 63000 | 60.6 | 67.3 | 73.3 | 76.4 | 61.8 | 63.3 | 63.6 | 67.6 | 69.7 | 75.5 | 73.9 | 71.3 | | | | | | | | | 139.1 |
| 80000 | 55.2 | 59.3 | 68.8 | 72.1 | 55.5 | 57.0 | 57.0 | 60.8 | 62.9 | 70.9 | 71.4 | 63.8 | | | | | | | | | 157.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 776 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

+ 80° spectra missing, see repeat data point

OVERALL MEASURED
 OVERALL CALCULATED
 PWS 124.1 125.2 131.7 131.6 117.3 117.2 117.0 119.4 122.0 124.3 124.7 126.3

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | C. | RADIOAL 150. FT. | VEHICLE | CELL41 | CONFIG | SCALED FROM MODEL DATA | | | | | | | | | | PWL |
|--------------------|--------|-------|------------------|---------|--------|--------|------------------------|-------|-------|-------|-------|-------|-------|------|-------|------|-----|
| | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | |
| 59 | 95.1 | 102.9 | 108.2 | 110.8 | 111.8 | 84.3 | 86.7 | 88.5 | 86.2 | 90.1 | 93.5 | 95.1 | 95.3 | 94.9 | 157.2 | | |
| 63 | 97.7 | 105.0 | 110.8 | 111.8 | 87.9 | 88.0 | 88.9 | 90.1 | 92.5 | 95.4 | 95.3 | 97.0 | 159.0 | | | | |
| 80 | 130.0 | 107.5 | 112.0 | 112.6 | 89.0 | 89.7 | 89.4 | 92.0 | 96.7 | 97.3 | 97.8 | 99.4 | 160.1 | | | | |
| 100 | 101.1 | 107.4 | 112.4 | 112.2 | 89.0 | 89.7 | 89.4 | 92.0 | 96.7 | 97.3 | 97.8 | 99.4 | 160.2 | | | | |
| 125 | 102.2 | 107.2 | 112.5 | 112.3 | 89.6 | 89.7 | 89.4 | 92.0 | 96.7 | 97.3 | 97.8 | 99.4 | 159.5 | | | | |
| 160 | 102.7 | 107.2 | 111.3 | 111.5 | 91.4 | 91.2 | 91.1 | 93.3 | 96.3 | 98.8 | 99.3 | 100.7 | 158.5 | | | | |
| 200 | 102.8 | 106.6 | 108.8 | 110.6 | 93.7 | 93.6 | 92.7 | 95.4 | 97.6 | 100.2 | 100.1 | 101.5 | 157.8 | | | | |
| 250 | 103.4 | 106.2 | 108.9 | 109.2 | 93.6 | 92.9 | 93.8 | 95.5 | 97.4 | 100.7 | 101.0 | 102.6 | 157.9 | | | | |
| 315 | 103.2 | 106.3 | 108.5 | 109.3 | 93.9 | 93.5 | 92.7 | 95.6 | 98.3 | 101.6 | 101.1 | 102.5 | 157.4 | | | | |
| 400 | 102.8 | 105.8 | 108.3 | 108.1 | 95.2 | 94.3 | 94.2 | 95.9 | 99.1 | 101.4 | 102.1 | 104.0 | 157.5 | | | | |
| 500 | 101.7 | 105.2 | 108.2 | 108.2 | 96.6 | 95.7 | 95.3 | 97.5 | 99.0 | 101.5 | 102.2 | 104.2 | 156.8 | | | | |
| 630 | 101.9 | 105.7 | 108.5 | 108.0 | 96.3 | 95.9 | 95.8 | 98.0 | 100.2 | 101.8 | 102.5 | 104.7 | 156.7 | | | | |
| 800 | 101.5 | 103.8 | 108.1 | 106.6 | 95.2 | 95.0 | 95.2 | 97.8 | 100.6 | 102.7 | 102.8 | 104.8 | 156.6 | | | | |
| 1000 | 99.9 | 103.9 | 107.2 | 106.7 | 95.1 | 94.9 | 94.3 | 97.2 | 100.0 | 103.3 | 103.5 | 105.2 | 156.5 | | | | |
| 1250 | 99.3 | 103.6 | 107.4 | 106.2 | 94.7 | 94.6 | 94.5 | 97.2 | 100.1 | 103.5 | 104.4 | 105.1 | 156.1 | | | | |
| 1600 | 99.0 | 102.6 | 106.9 | 106.1 | 94.2 | 94.1 | 93.7 | 96.9 | 100.6 | 103.3 | 104.7 | 105.3 | 154.9 | | | | |
| 2000 | 98.1 | 101.5 | 106.3 | 106.1 | 93.4 | 94.5 | 92.6 | 96.3 | 100.6 | 102.0 | 103.7 | 104.5 | 154.6 | | | | |
| 2500 | 96.2 | 99.7 | 104.8 | 105.0 | 92.0 | 93.2 | 92.1 | 95.3 | 98.5 | 101.5 | 103.1 | 102.3 | 152.7 | | | | |
| 3150 | 94.6 | 98.3 | 104.0 | 104.2 | 90.2 | 92.1 | 91.0 | 95.0 | 98.3 | 100.6 | 102.7 | 101.7 | 150.8 | | | | |
| 4000 | 91.8 | 95.2 | 101.0 | 102.4 | 88.5 | 89.4 | 89.1 | 93.1 | 98.0 | 99.1 | 101.4 | 98.4 | 151.1 | | | | |
| 5000 | 88.5 | 94.0 | 98.2 | 100.7 | 86.8 | 88.5 | 86.7 | 90.2 | 95.4 | 97.6 | 97.7 | 97.3 | 150.3 | | | | |
| 6300 | 86.4 | 91.1 | 99.0 | 100.2 | 86.5 | 88.3 | 87.1 | 91.2 | 95.1 | 97.4 | 98.3 | 96.2 | 148.2 | | | | |
| 8000 | 84.6 | 89.4 | 97.8 | 98.6 | 84.2 | 85.6 | 86.1 | 89.8 | 92.8 | 95.5 | 96.3 | 93.6 | 147.7 | | | | |
| 10000 | 79.9 | 85.9 | 93.3 | 95.8 | 80.9 | 82.4 | 82.1 | 86.7 | 88.6 | 93.1 | 92.1 | 89.8 | 152.4 | | | | |
| 12500 | 77.4 | 84.1 | 90.0 | 93.2 | 78.6 | 80.0 | 80.4 | 84.4 | 86.5 | 92.3 | 90.7 | 88.1 | 171.0 | | | | |
| 16000 | 78.3 | 82.4 | 91.9 | 95.2 | 78.6 | 80.1 | 80.1 | 83.9 | 86.1 | 94.0 | 94.5 | 86.9 | | | | | |
| OVERALL CALCULATED | 113.7 | 118.0 | 122.1 | 122.3 | 106.3 | 106.3 | 105.9 | 108.6 | 111.6 | 114.1 | 114.9 | 115.8 | | | | | |
| PND8 | 122.4 | 126.3 | 130.9 | 131.2 | 117.0 | 117.7 | 116.9 | 120.2 | 123.5 | 125.9 | 127.2 | 127.1 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 776 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

+ 80° spectra missing, see repeat data point

| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | |
|----------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | FREQ. | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 160. | C. | 0. | C. |
| NO EGA | 50 | (0.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.14) | (3.31) | (3.48) |
| SIDELINE 2400. FT.
(731.52 M) | 63 | 67.0 | 76.3 | 82.6 | 85.2 | 60.1 | 62.3 | 61.5 | 62.2 | 63.8 | 64.6 | 63.8 | 61.0 | | | | |
| NFA (1. RPM) | 80 | 71.7 | 80.8 | 86.4 | 87.0 | 61.4 | 64.1 | 61.3 | 64.5 | 66.9 | 66.8 | 64.8 | 61.7 | | | | |
| NFK (0. RAD/SEC) | 125 | 72.7 | 80.6 | 86.7 | 87.2 | 64.6 | 63.3 | 63.8 | 65.0 | 66.3 | 67.8 | 65.9 | 63.5 | | | | |
| NFD (7500. RPM) | 200 | 74.0 | 80.2 | 85.3 | 86.4 | 66.8 | 66.5 | 66.0 | 67.4 | 69.2 | 70.1 | 68.1 | 65.7 | | | | |
| AIRFLOW RATIO | 315 | 73.8 | 79.3 | 82.7 | 85.3 | 69.0 | 68.7 | 67.4 | 69.3 | 70.3 | 71.2 | 68.7 | 66.2 | | | | |
| WF/WM 4.63 | 400 | 74.2 | 78.7 | 82.6 | 83.7 | 68.7 | 67.9 | 68.3 | 69.2 | 70.0 | 71.5 | 69.2 | 66.8 | | | | |
| VEHICLE | 500 | 72.8 | 77.7 | 81.5 | 82.1 | 69.8 | 68.8 | 68.2 | 69.0 | 71.0 | 71.4 | 69.3 | 66.7 | | | | |
| CONFIG | 630 | 70.7 | 76.6 | 80.7 | 81.2 | 70.2 | 69.6 | 69.0 | 70.3 | 70.4 | 71.0 | 68.8 | 65.8 | | | | |
| LOC C41 ANECH CH | 800 | 69.4 | 73.9 | 79.7 | 79.1 | 68.5 | 68.1 | 67.7 | 68.4 | 70.7 | 70.5 | 67.3 | 63.3 | | | | |
| DATE 06-08-76 | 1000 | 66.7 | 73.1 | 78.0 | 78.6 | 67.7 | 67.3 | 66.2 | 68.0 | 69.2 | 70.1 | 66.6 | 61.7 | | | | |
| RUN CONF7HIGHFLW | 1250 | 64.7 | 71.7 | 77.2 | 77.1 | 66.5 | 66.2 | 65.4 | 67.0 | 68.2 | 69.0 | 65.7 | 59.0 | | | | |
| TAPE X07760 | 1600 | 62.5 | 69.0 | 75.3 | 75.8 | 64.2 | 64.4 | 63.3 | 65.3 | 67.1 | 66.8 | 63.5 | 55.5 | | | | |
| FAN TIP SPEED | 2000 | 59.3 | 66.1 | 73.1 | 74.2 | 62.5 | 63.3 | 60.7 | 63.0 | 65.1 | 63.2 | 59.5 | 50.3 | | | | |
| FT/SEC | 2500 | 54.1 | 61.4 | 69.1 | 70.8 | 58.9 | 59.9 | 57.9 | 59.5 | 60.3 | 59.3 | 54.6 | 41.7 | | | | |
| OVERALL CALCULATED | 3150 | 47.1 | 55.6 | 64.4 | 66.4 | 53.8 | 55.4 | 53.2 | 55.3 | 55.6 | 53.0 | 47.1 | 30.7 | | | | |
| | 4000 | 36.2 | 45.8 | 55.4 | 59.2 | 47.0 | 47.5 | 45.9 | 47.5 | 48.5 | 43.5 | 35.4 | 11.9 | | | | |
| | 5000 | 28.2 | 40.7 | 49.2 | 54.4 | 42.4 | 43.6 | 40.3 | 41.2 | 42.1 | 37.3 | 25.5 | 1.9 | | | | |
| | 6300 | 12.4 | 26.3 | 39.9 | 44.6 | 33.5 | 34.6 | 31.5 | 32.1 | 30.3 | 23.4 | 8.4 | | | | | |
| | 8000 | | 7.0 | 23.3 | 28.8 | 17.9 | 18.5 | 16.4 | 15.3 | 10.4 | 0.4 | | | | | | |
| | 10000 | | | | 6.3 | | | | | | | | | | | | |
| OVERALL CALCULATED | 12500 | 83.7 | 90.0 | 95.3 | 96.5 | 79.7 | 79.3 | 78.6 | 80.0 | 81.3 | 81.9 | 79.4 | 76.3 | | | | |
| PNDB | 16000 | 87.6 | 93.8 | 99.0 | 100.1 | 86.1 | 86.1 | 84.7 | 86.5 | 87.9 | 87.8 | 84.5 | 80.2 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 776 ACROUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

+ 80° spectra missing > see repeat data point

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 160. | 160. | 0. | 0. | PWL |
|----------|--------|--|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|----|----|-------|
| | | FREQ. (0.70)(0.87)(1.05)(1.22)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.79)(2.79)(0.) | | | | | | | | | | | | | | |
| 100 | 80 | 95.1 | 96.2 | 97.4 | 101.7 | 102.3 | 105.9 | 83.5 | 91.5 | 88.7 | 92.0 | 93.2 | | | | 142.0 |
| 125 | 100 | 95.6 | 94.6 | 94.1 | 103.2 | 105.5 | 107.1 | 81.7 | 85.2 | 86.6 | 90.7 | 92.1 | | | | 143.6 |
| 160 | 125 | 91.5 | 93.9 | 99.2 | 104.7 | 106.8 | 109.9 | 82.5 | 83.7 | 86.9 | 88.7 | 89.2 | | | | 145.5 |
| 200 | 160 | 94.5 | 97.8 | 102.5 | 106.3 | 111.4 | 114.3 | 85.2 | 84.1 | 85.3 | 89.1 | 89.6 | | | | 149.5 |
| 250 | 200 | 96.3 | 99.3 | 104.3 | 111.1 | 113.7 | 115.8 | 84.0 | 86.1 | 87.3 | 89.4 | 90.4 | | | | 151.8 |
| 315 | 250 | 97.4 | 100.9 | 106.9 | 112.7 | 116.3 | 118.9 | 85.6 | 89.2 | 87.7 | 90.5 | 93.0 | | | | 153.7 |
| 400 | 315 | 98.4 | 102.7 | 110.0 | 115.7 | 117.1 | 117.5 | 87.6 | 88.2 | 89.5 | 91.3 | 93.2 | | | | 155.0 |
| 500 | 400 | 98.8 | 103.8 | 110.8 | 116.1 | 118.4 | 117.8 | 88.2 | 88.1 | 89.0 | 91.3 | 93.1 | | | | 155.7 |
| 630 | 500 | 100.1 | 105.6 | 111.6 | 116.2 | 118.8 | 118.4 | 88.8 | 89.4 | 90.1 | 93.5 | 94.7 | | | | 156.2 |
| 800 | 630 | 101.6 | 106.9 | 113.2 | 116.4 | 119.8 | 118.9 | 91.0 | 91.2 | 91.7 | 94.7 | 96.4 | | | | 156.9 |
| 1000 | 800 | 102.2 | 107.5 | 113.0 | 116.3 | 119.1 | 119.2 | 93.4 | 93.5 | 94.0 | 96.1 | 97.3 | | | | 157.2 |
| 1250 | 1000 | 104.0 | 109.3 | 113.3 | 116.9 | 119.9 | 118.8 | 92.9 | 93.1 | 94.6 | 96.6 | 97.4 | | | | 157.8 |
| 1600 | 1250 | 103.6 | 109.9 | 114.2 | 118.0 | 120.8 | 118.4 | 94.6 | 95.0 | 93.9 | 97.0 | 98.2 | | | | 156.8 |
| 2000 | 1600 | 105.2 | 110.0 | 114.0 | 118.5 | 119.1 | 115.2 | 98.6 | 96.5 | 96.0 | 97.8 | 99.3 | | | | 153.4 |
| 2500 | 2000 | 105.5 | 110.8 | 113.6 | 118.1 | 116.5 | 112.8 | 99.0 | 98.1 | 98.3 | 100.4 | 99.6 | | | | 155.0 |
| 3150 | 2500 | 106.2 | 111.0 | 114.3 | 117.8 | 114.9 | 111.8 | 97.7 | 97.8 | 98.8 | 100.4 | 101.8 | | | | 153.5 |
| 4000 | 3150 | 107.0 | 110.3 | 114.6 | 115.4 | 113.7 | 109.6 | 94.9 | 95.4 | 95.2 | 99.7 | 101.4 | | | | 152.2 |
| 5000 | 4000 | 107.9 | 110.7 | 114.0 | 114.7 | 112.6 | 109.7 | 94.8 | 94.7 | 95.2 | 98.6 | 100.3 | | | | 152.2 |
| 6300 | 5000 | 107.7 | 110.8 | 113.1 | 113.3 | 111.7 | 109.0 | 94.7 | 94.6 | 94.8 | 98.4 | 100.4 | | | | 151.7 |
| 8000 | 6300 | 107.7 | 110.1 | 112.9 | 112.4 | 110.7 | 107.8 | 94.2 | 94.6 | 94.1 | 98.0 | 100.2 | | | | 150.9 |
| 10000 | 8000 | 106.9 | 109.8 | 111.1 | 110.8 | 109.7 | 107.3 | 92.9 | 94.6 | 94.4 | 98.3 | 99.9 | | | | 149.4 |
| 12500 | 10000 | 105.1 | 107.3 | 109.2 | 108.7 | 108.0 | 105.6 | 90.9 | 93.2 | 93.2 | 97.1 | 98.5 | | | | 148.5 |
| 16000 | 12500 | 103.2 | 106.4 | 107.1 | 107.3 | 105.8 | 104.2 | 89.3 | 91.3 | 91.1 | 95.9 | 98.2 | | | | 146.5 |
| 20000 | 16000 | 100.3 | 103.6 | 104.3 | 103.5 | 102.5 | 101.8 | 86.6 | 88.1 | 88.6 | 93.4 | 95.5 | | | | 145.3 |
| 25000 | 20000 | 97.2 | 101.8 | 100.9 | 102.0 | 98.7 | 98.5 | 83.3 | 86.0 | 85.7 | 90.6 | 92.6 | | | | 145.3 |
| 31500 | 25000 | 94.6 | 98.5 | 98.8 | 99.3 | 98.4 | 95.5 | 80.9 | 84.2 | 84.3 | 89.7 | 91.2 | | | | 145.3 |
| 40000 | 31500 | 90.3 | 94.6 | 96.7 | 96.5 | 95.6 | 92.1 | 76.1 | 79.7 | 80.5 | 86.2 | 86.4 | | | | 144.0 |
| 50000 | 40000 | 83.0 | 88.5 | 92.0 | 91.8 | 87.2 | 85.0 | 69.2 | 74.3 | 74.8 | 80.4 | 79.3 | | | | 145.5 |
| 63000 | 50000 | 75.6 | 83.1 | 86.4 | 88.4 | 80.9 | 79.1 | 63.1 | 68.6 | 68.5 | 74.9 | 72.6 | | | | 145.5 |
| 80000 | 63000 | 68.2 | 77.8 | 83.5 | 84.2 | 74.7 | 74.5 | 57.9 | 64.6 | 63.8 | 69.9 | 66.4 | | | | 150.6 |
| | | | | | | | | | | | | | | | | 167.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 777 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

+ 80° spectra missing, see repeat data point

OVERALL MEASURED
OVERALL CALCULATED 117.7 121.6 125.3 128.4 129.7 128.7 106.9 107.1 107.3 110.3 111.7
PNDB 130.2 134.2 137.9 141.1 140.8 138.9 120.2 120.3 120.9 123.2 124.6

| PAGE 1 FULL SCALE DATA REDUCTION PROGRAM | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | PROC. DATE - MONTH 8 DAY 26 HR. 18.5 | | | | | | | | | | | | | | | |
|--|--------|--|--------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| FULL SIZE SOUND PRESSURE LEVELS | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | F, 70 PERCENT REL. HUM. DAY - JENOTS | | | | | | | | | | | | | | | |
| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 160. | 160. | C. | C. | C. | 0. | P=1 |
| RADIAL 150. FT. | G. | FREQ. (0.70) | (0.87) | (1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.79) | (2.79) | (2.79) | (0.) | (0.) | (0.) | (0.) | (0.) |
| 53 | 80 | 98.1 | 101.2 | 106.2 | 113.0 | 115.6 | 117.7 | 85.5 | 88.0 | 89.2 | 91.2 | 92.2 | 165.1 | | | | | | |
| 80 | 100 | 99.2 | 102.8 | 108.8 | 114.6 | 118.2 | 118.8 | 87.4 | 91.1 | 88.5 | 92.3 | 94.8 | 167.2 | | | | | | |
| 100 | 100 | 100.3 | 104.5 | 111.8 | 117.6 | 118.9 | 119.3 | 89.4 | 90.1 | 91.3 | 93.1 | 95.1 | 168.3 | | | | | | |
| 125 | 101 | 100.6 | 105.6 | 112.6 | 119.7 | 120.3 | 119.6 | 90.0 | 89.9 | 90.9 | 93.7 | 94.9 | 169.1 | | | | | | |
| 160 | 103 | 101.9 | 107.5 | 113.5 | 118.0 | 120.6 | 120.2 | 90.6 | 91.3 | 92.0 | 95.3 | 96.5 | 169.5 | | | | | | |
| 200 | 104 | 103.5 | 108.7 | 115.0 | 118.3 | 121.6 | 120.7 | 92.9 | 93.0 | 93.5 | 96.6 | 98.3 | 172.2 | | | | | | |
| 250 | 105 | 104.0 | 109.3 | 114.8 | 118.1 | 121.0 | 121.1 | 95.2 | 95.4 | 95.8 | 97.9 | 99.1 | 170.0 | | | | | | |
| 315 | 105 | 105.9 | 111.2 | 115.2 | 118.7 | 121.8 | 120.7 | 94.8 | 95.0 | 96.4 | 98.5 | 99.2 | 173.5 | | | | | | |
| 400 | 107 | 105.5 | 111.8 | 116.0 | 119.8 | 122.7 | 120.3 | 96.4 | 96.8 | 95.8 | 98.9 | 100.1 | 171.1 | | | | | | |
| 500 | 107 | 107.0 | 111.8 | 115.8 | 120.4 | 121.0 | 117.1 | 100.5 | 98.4 | 97.8 | 99.7 | 101.1 | 170.1 | | | | | | |
| 630 | 108 | 107.4 | 112.7 | 115.5 | 120.0 | 118.3 | 114.7 | 100.6 | 100.0 | 102.2 | 102.3 | 101.5 | 158.8 | | | | | | |
| 800 | 109 | 108.2 | 112.9 | 116.2 | 119.7 | 116.8 | 113.7 | 99.6 | 99.7 | 100.7 | 102.3 | 103.8 | 168.3 | | | | | | |
| 1000 | 109 | 109.0 | 112.3 | 116.6 | 117.3 | 115.7 | 111.5 | 96.9 | 97.3 | 98.3 | 101.6 | 103.3 | 155.9 | | | | | | |
| 1250 | 109 | 109.8 | 112.8 | 115.9 | 116.7 | 114.6 | 111.7 | 96.8 | 96.7 | 97.2 | 100.5 | 102.4 | 166.3 | | | | | | |
| 1600 | 110 | 109.8 | 112.8 | 115.1 | 115.4 | 113.7 | 111.1 | 96.7 | 96.6 | 96.9 | 100.5 | 102.4 | 165.5 | | | | | | |
| 2000 | 110 | 110.0 | 112.3 | 115.1 | 114.6 | 112.9 | 110.7 | 96.4 | 96.9 | 96.4 | 100.2 | 102.4 | 165.1 | | | | | | |
| 2500 | 109 | 109.4 | 112.2 | 113.6 | 113.3 | 112.1 | 109.7 | 95.4 | 97.1 | 96.8 | 100.7 | 102.4 | 164.2 | | | | | | |
| 3150 | 107 | 107.9 | 110.1 | 112.0 | 111.5 | 110.8 | 108.4 | 93.7 | 96.0 | 96.0 | 99.9 | 101.3 | 162.7 | | | | | | |
| 4000 | 106 | 106.6 | 109.8 | 110.5 | 110.6 | 109.2 | 107.5 | 92.6 | 94.6 | 94.5 | 99.2 | 101.6 | 161.9 | | | | | | |
| 5000 | 104 | 104.4 | 107.6 | 108.3 | 107.5 | 106.5 | 105.9 | 90.7 | 92.2 | 92.6 | 97.5 | 100.5 | 159.8 | | | | | | |
| 6300 | 102 | 102.5 | 107.1 | 106.2 | 107.3 | 104.1 | 103.9 | 88.7 | 91.3 | 91.0 | 96.0 | 98.0 | 158.6 | | | | | | |
| 8000 | 101 | 101.5 | 105.4 | 105.7 | 106.2 | 105.4 | 102.4 | 87.8 | 91.1 | 91.3 | 96.7 | 98.2 | 158.5 | | | | | | |
| 10000 | 99 | 99.6 | 103.9 | 106.0 | 105.8 | 104.8 | 101.4 | 85.4 | 89.0 | 89.7 | 95.4 | 95.7 | 158.8 | | | | | | |
| 12500 | 95 | 95.3 | 100.8 | 104.3 | 104.1 | 99.6 | 97.3 | 81.5 | 86.7 | 87.1 | 92.7 | 91.6 | 157.3 | | | | | | |
| 16000 | 92 | 92.3 | 99.8 | 103.2 | 105.2 | 97.7 | 95.8 | 79.9 | 85.4 | 85.2 | 91.7 | 89.4 | 153.8 | | | | | | |
| PND | 91 | 91.3 | 100.9 | 106.7 | 107.3 | 97.8 | 97.6 | 81.0 | 87.7 | 86.9 | 93.0 | 89.5 | 163.9 | | | | | | |
| OVERALL CALCULATED | 119 | 119.9 | 123.8 | 127.4 | 130.3 | 131.5 | 130.3 | 109.0 | 109.2 | 109.6 | 112.6 | 114.0 | | | | | | | |
| | 131 | 131.7 | 135.2 | 137.5 | 138.7 | 138.7 | 136.8 | 119.0 | 120.4 | 120.6 | 124.4 | 126.2 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 777 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

+ 80° spectra missing, see repeat data point

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| FREQ. | NO EGA | | | SIDELINE 2400 FT. (731.52 M) | | | NFA | | | NFK | | | NFD | | | AIRFLOW RATIO | | | VEHICLE | | | LOC | | | DATE | | | RUN | | | TAPE | | | FAN TIP SPEED | | | | | |
|--------------------|--------|-------|-------|------------------------------|-------|-------|------|------|------|------|------|------|------|------|------|---------------|------|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|--|--|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | 210. | 220. | 230. | 240. | 250. | 260. | 270. | 280. | 290. | 300. | 310. | 320. | 330. | 340. | 350. | 360. | 370. | 380. | 390. | 400. | | |
| 50 | 70.0 | 74.6 | 80.6 | 88.2 | 91.3 | 93.3 | 94.3 | 61.0 | 62.4 | 62.6 | 63.1 | 58.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 71.0 | 76.1 | 83.2 | 89.7 | 93.9 | 94.3 | 94.8 | 64.5 | 64.5 | 64.6 | 64.8 | 60.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 72.2 | 78.8 | 86.9 | 92.9 | 95.9 | 95.1 | 95.0 | 65.0 | 65.0 | 65.0 | 65.0 | 61.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 73.4 | 80.5 | 87.7 | 93.0 | 96.1 | 96.0 | 96.0 | 67.7 | 67.1 | 66.4 | 67.8 | 63.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 74.7 | 81.7 | 89.1 | 93.1 | 97.0 | 96.2 | 96.2 | 69.2 | 69.3 | 68.6 | 69.0 | 63.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 75.1 | 82.1 | 88.7 | 92.8 | 96.2 | 95.6 | 95.6 | 69.3 | 68.6 | 69.0 | 69.3 | 63.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 76.7 | 83.7 | 88.9 | 93.2 | 96.9 | 95.6 | 95.6 | 70.7 | 70.3 | 68.0 | 69.3 | 63.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 315 | 75.9 | 84.0 | 89.5 | 94.1 | 97.6 | 95.6 | 95.6 | 70.7 | 70.3 | 68.0 | 69.3 | 63.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 77.0 | 83.7 | 89.0 | 94.4 | 95.6 | 91.5 | 91.5 | 74.4 | 71.5 | 69.7 | 69.7 | 63.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 76.9 | 84.1 | 88.2 | 93.6 | 92.6 | 88.8 | 88.8 | 74.5 | 72.8 | 71.7 | 71.8 | 63.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 630 | 77.0 | 83.8 | 88.5 | 92.9 | 90.7 | 87.4 | 87.4 | 72.8 | 72.0 | 71.6 | 71.1 | 64.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 76.9 | 82.4 | 88.2 | 89.9 | 88.9 | 84.6 | 84.6 | 69.5 | 68.9 | 68.4 | 69.5 | 61.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 76.7 | 81.9 | 86.8 | 88.6 | 87.2 | 84.1 | 84.1 | 68.7 | 67.5 | 66.4 | 67.4 | 58.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1250 | 75.2 | 80.9 | 85.0 | 86.3 | 85.5 | 82.6 | 82.6 | 67.7 | 66.5 | 65.0 | 65.9 | 56.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | 73.5 | 78.8 | 83.5 | 84.3 | 83.5 | 80.4 | 80.4 | 66.1 | 65.3 | 62.8 | 63.8 | 52.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 70.6 | 76.8 | 80.3 | 81.4 | 81.2 | 78.6 | 78.6 | 63.4 | 63.8 | 61.4 | 61.9 | 48.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2500 | 65.7 | 71.9 | 76.2 | 77.3 | 77.7 | 75.1 | 75.1 | 59.5 | 60.2 | 57.7 | 57.8 | 40.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3150 | 59.1 | 67.0 | 70.8 | 72.9 | 72.8 | 70.8 | 70.8 | 54.8 | 55.0 | 51.7 | 51.7 | 30.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 48.7 | 58.2 | 62.8 | 64.3 | 65.1 | 64.0 | 64.0 | 47.5 | 46.6 | 43.2 | 41.8 | 14.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5000 | 42.2 | 53.8 | 57.2 | 61.0 | 59.6 | 59.0 | 59.0 | 42.3 | 42.3 | 37.7 | 35.7 | 2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6300 | 27.5 | 40.6 | 46.7 | 50.7 | 52.3 | 48.8 | 48.8 | 32.2 | 32.0 | 26.5 | 22.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8000 | 4.4 | 21.5 | 31.4 | 36.0 | 38.5 | 34.2 | 34.2 | 15.7 | 14.5 | 7.4 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10000 | | | 8.3 | 14.7 | 14.8 | 11.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 87.3 | 93.9 | 99.6 | 104.1 | 106.4 | 105.2 | 81.8 | 80.8 | 79.8 | 80.3 | 80.3 | 73.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P:DB | 93.9 | 100.2 | 105.4 | 109.5 | 111.0 | 108.8 | 88.3 | 87.3 | 85.9 | 86.2 | 86.2 | 77.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **777** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

+ 80° spectra missing, see repeat data point

| RDG. NO. | H0 EGA | MODEL SOUND PRESSURE LEVELS (59.0 DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | ANGLE FROM INLET IN DEGREES (AND RADIAN) | SIZE | | | | | | |
|----------|--------|--|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | | | | | | | | |
| 50 | 53 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 53 | 63 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 60 | 80 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 100 | 125 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 160 | 200 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 250 | 315 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 400 | 500 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 630 | 800 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 1000 | 1250 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 1600 | 2000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 3150 | 4000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 5000 | 6300 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 8000 | 10000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 12500 | 16000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 20000 | 25000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 31500 | 40000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 50000 | 63000 | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |
| 20000 | | 105.6 | 119.1 | 120.5 | 121.3 | 121.7 | 123.0 | 124.1 | 126.1 | 128.3 | 132.3 | 135.9 | 139.8 | 157.4 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 778 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

OVERALL MEASURED
OVERALL CALCULATED

| FREQ. | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | |
|--------------------|--|--------|----------------|---------------|--------|
| | 40. | 50. | 60. | 70. | 80. |
| 50 | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) |
| 63 | 85.4 | 88.9 | 90.4 | 90.5 | 92.3 |
| 80 | 87.0 | 91.3 | 90.0 | 92.1 | 94.4 |
| 100 | 89.5 | 91.1 | 92.1 | 94.4 | 95.5 |
| 125 | 91.2 | 92.5 | 94.5 | 96.1 | 98.0 |
| 160 | 94.2 | 94.2 | 95.7 | 96.0 | 97.4 |
| 200 | 96.3 | 98.1 | 98.6 | 99.0 | 101.5 |
| 250 | 95.9 | 98.4 | 99.4 | 98.5 | 101.2 |
| 315 | 95.0 | 97.0 | 97.3 | 98.3 | 99.7 |
| 400 | 96.3 | 97.3 | 98.8 | 98.9 | 100.5 |
| 500 | 96.9 | 97.7 | 99.0 | 100.3 | 101.7 |
| 630 | 98.9 | 99.2 | 99.7 | 99.8 | 100.8 |
| 800 | 97.5 | 99.0 | 100.1 | 99.8 | 100.7 |
| 1000 | 96.1 | 98.4 | 99.2 | 101.0 | 101.6 |
| 1250 | 95.3 | 98.1 | 99.4 | 100.1 | 102.2 |
| 1600 | 94.7 | 96.8 | 97.9 | 99.9 | 101.9 |
| 2000 | 93.4 | 97.5 | 97.8 | 99.5 | 102.1 |
| 2500 | 91.6 | 95.8 | 96.5 | 98.7 | 100.7 |
| 3150 | 90.7 | 95.2 | 96.2 | 98.9 | 100.9 |
| 4000 | 88.9 | 92.9 | 94.8 | 96.7 | 100.0 |
| 5000 | 87.0 | 92.0 | 92.7 | 95.0 | 98.2 |
| 6300 | 85.6 | 91.5 | 93.4 | 95.6 | 97.1 |
| 8000 | 82.9 | 89.0 | 91.9 | 93.9 | 95.7 |
| 10000 | 80.0 | 85.7 | 88.9 | 90.0 | 92.0 |
| 12500 | 78.7 | 83.2 | 87.8 | 91.5 | 91.4 |
| 16000 | 80.8 | 84.9 | 90.3 | 88.4 | 94.8 |
| OVERALL CALCULATED | 107.6 | 109.7 | 110.6 | 111.5 | 113.3 |
| NO EGA | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 |
| RDG. NO. | 85.4 | 88.9 | 90.4 | 90.5 | 92.3 |
| C. | 87.0 | 91.3 | 90.0 | 92.1 | 94.4 |
| RADIAL 150. FT. | 89.5 | 91.1 | 92.1 | 94.4 | 95.5 |
| (46. H) | 91.2 | 92.5 | 94.5 | 96.1 | 98.0 |
| VEHICLE | 94.2 | 94.2 | 95.7 | 96.0 | 97.4 |
| CELL41 | 96.3 | 98.1 | 98.6 | 99.0 | 101.5 |
| CONFIG | 95.9 | 98.4 | 99.4 | 98.5 | 101.2 |
| LOC C41 ANECHO CH | 95.0 | 97.0 | 97.3 | 98.3 | 99.7 |
| DATE 06-10-76 | 96.3 | 97.3 | 98.8 | 98.9 | 100.5 |
| RUN CONFTHIGHFLW | 96.9 | 97.7 | 99.0 | 100.3 | 101.7 |
| TAPE X07780 | 98.9 | 99.2 | 99.7 | 99.8 | 100.8 |
| BAR 29.3 HG | 97.5 | 99.0 | 100.1 | 99.8 | 100.7 |
| (99111. N/M2) | 96.1 | 98.4 | 99.2 | 101.0 | 101.6 |
| TAMB 66. DEG F | 95.3 | 98.1 | 99.4 | 100.1 | 102.2 |
| (292. DEG K) | 94.7 | 96.8 | 97.9 | 99.9 | 101.9 |
| TWET 62. DEG F | 93.4 | 97.5 | 97.8 | 99.5 | 102.1 |
| (290. DEG K) | 91.6 | 95.8 | 96.5 | 98.7 | 100.7 |
| HACT12.77 GM/M3 | 90.7 | 95.2 | 96.2 | 98.9 | 100.9 |
| (.01277 KG/M3) | 88.9 | 92.9 | 94.8 | 96.7 | 100.0 |
| FREQ. SHIFT | 87.0 | 92.0 | 92.7 | 95.0 | 98.2 |
| JET | 85.6 | 91.5 | 93.4 | 95.6 | 97.1 |
| DIAMETER RATIO | 82.9 | 89.0 | 91.9 | 93.9 | 95.7 |
| DF/DM 4.63 | 80.0 | 85.7 | 88.9 | 90.0 | 92.0 |
| OVERALL CALCULATED | 107.6 | 109.7 | 110.6 | 111.5 | 113.3 |
| TEST POINT | 45.7m(150ft.) | ARC | ACOUSTIC RANGE | 45.7m(150ft.) | ARC |
| SIZE | FULL-.33m ² (513in ²) | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 778 FULL-.33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 8 DAY 25 HR. 21.4

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | NO EGA
SIDELINE 26CC. FT.
(731.52 M) | NO.
NFA | C.
NFK | C.
NFD | C.
AIRFLOW RATIO
WF/WM | FULL SIZE SOUND PRESSURE ANGLES | | | | |
|--------------------|---|---------------|---------------|---------------|---------------|--|------------|-----------|-----------|------------------------------|---------------------------------|----------------|----------------|----------------|----------------|
| | 40.
(C.70) | 50.
(C.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) |
| 50 | 57.2 | 62.3 | 64.9 | 65.7 | 67.9 | 69.2 | 71.4 | 71.7 | 74.4 | 79.1 | 83.8 | 86.2 | 81.0 | 160. | |
| 63 | 58.7 | 64.6 | 64.5 | 67.2 | 70.0 | 71.2 | 72.5 | 73.5 | 77.9 | 84.4 | 88.7 | 87.1 | 82.6 | 150. | |
| 80 | 60.7 | 64.1 | 66.9 | 67.9 | 70.0 | 71.2 | 72.5 | 73.5 | 77.9 | 84.4 | 88.7 | 87.1 | 82.6 | 140. | |
| 100 | 61.2 | 64.3 | 66.4 | 68.2 | 70.3 | 72.5 | 73.5 | 75.0 | 78.9 | 86.6 | 89.7 | 89.0 | 83.6 | 130. | |
| 125 | 62.6 | 65.5 | 67.4 | 69.5 | 71.5 | 73.5 | 75.0 | 76.2 | 81.8 | 87.0 | 90.0 | 89.5 | 84.3 | 120. | |
| 160 | 65.2 | 67.2 | 69.1 | 70.9 | 72.6 | 74.4 | 76.1 | 77.6 | 86.4 | 89.4 | 88.4 | 84.7 | 81.0 | 110. | |
| 200 | 67.3 | 70.8 | 72.0 | 73.3 | 74.1 | 75.3 | 76.6 | 78.6 | 86.4 | 89.4 | 88.4 | 84.7 | 81.0 | 100. | |
| 250 | 66.7 | 70.9 | 73.2 | 73.0 | 74.8 | 76.3 | 77.5 | 79.7 | 83.2 | 85.8 | 88.7 | 90.1 | 83.5 | 90. | |
| 315 | 65.4 | 69.3 | 70.8 | 72.6 | 74.4 | 76.2 | 77.2 | 78.9 | 83.8 | 85.9 | 88.3 | 88.8 | 82.3 | 80. | |
| 400 | 66.3 | 69.2 | 72.0 | 72.9 | 74.9 | 76.2 | 78.2 | 79.9 | 83.5 | 85.6 | 88.1 | 87.0 | 79.0 | 70. | |
| 500 | 66.4 | 69.1 | 71.7 | 72.6 | 74.5 | 76.0 | 78.2 | 79.6 | 83.5 | 85.0 | 88.0 | 84.4 | 75.6 | 60. | |
| 630 | 67.7 | 70.1 | 72.0 | 72.9 | 74.5 | 75.6 | 77.3 | 79.4 | 83.2 | 84.7 | 87.1 | 81.8 | 73.3 | 50. | |
| 800 | 65.4 | 69.1 | 71.7 | 72.4 | 73.8 | 74.0 | 75.1 | 77.3 | 79.6 | 81.9 | 84.0 | 84.0 | 78.7 | 40. | |
| 1000 | 62.9 | 67.6 | 70.0 | 72.8 | 74.0 | 75.0 | 76.7 | 78.6 | 80.8 | 82.0 | 81.3 | 76.2 | 67.2 | 30. | |
| 1250 | 60.7 | 66.2 | 69.2 | 71.1 | 73.8 | 75.6 | 77.0 | 77.6 | 83.2 | 80.8 | 79.6 | 73.9 | 63.7 | 20. | |
| 1600 | 58.2 | 63.3 | 66.3 | 69.5 | 72.3 | 74.3 | 76.3 | 76.2 | 77.8 | 79.2 | 76.7 | 70.1 | 59.5 | 10. | |
| 2000 | 54.6 | 62.0 | 64.5 | 67.6 | 71.0 | 71.3 | 74.0 | 74.6 | 77.5 | 75.8 | 73.1 | 66.3 | 54.0 | 0. | |
| 2500 | 49.4 | 57.6 | 60.7 | 64.5 | 67.4 | 68.8 | 71.2 | 70.7 | 72.2 | 71.2 | 68.1 | 60.3 | 46.7 | -10. | |
| 3150 | 43.2 | 52.5 | 56.5 | 61.1 | 64.2 | 64.3 | 67.9 | 65.6 | 68.0 | 65.7 | 61.7 | 53.2 | 35.7 | -20. | |
| 4000 | 33.3 | 43.5 | 49.2 | 53.5 | 58.1 | 58.1 | 60.8 | 58.8 | 60.0 | 56.4 | 50.4 | 39.4 | 18.3 | -30. | |
| 5000 | 26.7 | 38.7 | 43.7 | 48.7 | 53.3 | 52.8 | 53.8 | 53.8 | 55.4 | 49.8 | 45.6 | 29.1 | 7.1 | -40. | |
| 6300 | 11.6 | 26.7 | 34.3 | 40.0 | 44.7 | 44.0 | 45.6 | 43.6 | 43.6 | 38.2 | 30.2 | 13.4 | 0. | -50. | |
| 8000 | 6.6 | 17.3 | 24.1 | 28.6 | 32.5 | 29.2 | 30.3 | 27.4 | 26.6 | 20.4 | 8.6 | 0. | -60. | -60. | |
| 10000 | | | | | | | | | | | | | | -70. | |
| OVERALL CALCULATED | 76.5 | 80.0 | 82.2 | 83.6 | 85.4 | 86.9 | 88.6 | 90.1 | 93.6 | 96.8 | 90.5 | 92.5 | 93.1 | | |
| PNDE | 31.6 | 35.7 | 38.2 | 39.7 | 41.4 | 41.7 | 43.6 | 47.3 | 47.3 | 51.3 | 47.1 | 41.5 | 34.5 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 778 ACQUSTIC RANGE 731.5m(2400ft.):SIDELINE SIZE FULL-.33m²(513in²)

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) (0.0, 0.0, 0.0, 0.0, 0.0, 0.0)
 PROC. DATE - MONTH 8 DAY 26 HR. 10.1

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 50 | (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.) |
| 60 | | | | | | | | | | | | | | (0.) |
| 63 | | | | | | | | | | | | | | (0.) |
| 100 | 84.6 | 94.7 | 92.4 | 93.7 | 95.0 | 95.4 | 96.0 | 95.7 | 96.9 | 98.7 | 103.2 | 102.9 | 105.7 | 140.2 |
| 125 | 84.1 | 88.4 | 90.4 | 92.2 | 94.0 | 96.1 | 96.7 | 96.4 | 95.4 | 94.9 | 104.9 | 106.6 | 107.6 | 141.4 |
| 160 | 83.4 | 87.4 | 91.2 | 91.0 | 91.0 | 91.4 | 91.8 | 92.7 | 94.9 | 100.2 | 106.2 | 107.1 | 110.2 | 142.4 |
| 200 | 86.3 | 88.0 | 88.8 | 90.5 | 91.4 | 92.5 | 94.2 | 95.1 | 99.5 | 103.9 | 108.1 | 112.3 | 114.0 | 146.0 |
| 250 | 85.6 | 89.3 | 91.1 | 92.2 | 93.8 | 96.0 | 97.1 | 100.1 | 105.4 | 112.9 | 115.0 | 116.3 | 118.9 | 148.9 |
| 315 | 87.2 | 91.4 | 90.4 | 92.0 | 94.3 | 97.7 | 98.2 | 98.2 | 101.4 | 108.8 | 115.0 | 117.4 | 117.4 | 150.9 |
| 400 | 89.7 | 91.5 | 93.2 | 93.0 | 94.6 | 96.8 | 98.7 | 100.1 | 104.8 | 113.4 | 118.8 | 119.5 | 117.8 | 152.5 |
| 500 | 90.8 | 91.5 | 92.8 | 93.3 | 95.2 | 96.5 | 98.7 | 100.1 | 104.8 | 113.4 | 118.8 | 119.5 | 117.8 | 153.4 |
| 630 | 91.9 | 93.4 | 94.1 | 95.2 | 96.0 | 97.9 | 99.5 | 101.4 | 106.4 | 113.7 | 118.7 | 120.6 | 118.9 | 154.0 |
| 800 | 94.1 | 94.9 | 95.4 | 96.4 | 97.8 | 99.2 | 100.8 | 102.7 | 107.9 | 114.7 | 120.2 | 121.4 | 119.7 | 155.1 |
| 1000 | 97.5 | 99.0 | 98.2 | 98.8 | 99.1 | 100.5 | 102.1 | 103.8 | 109.0 | 114.8 | 120.3 | 120.9 | 120.0 | 155.2 |
| 1250 | 100.3 | 101.1 | 101.3 | 100.6 | 101.0 | 102.3 | 103.5 | 105.4 | 110.3 | 115.2 | 120.4 | 122.8 | 116.6 | 155.9 |
| 1600 | 108.9 | 106.4 | 103.4 | 101.7 | 100.8 | 102.2 | 103.1 | 105.0 | 110.2 | 114.8 | 121.0 | 121.9 | 116.7 | 155.7 |
| 2000 | 108.7 | 108.2 | 108.2 | 108.3 | 104.4 | 102.5 | 104.1 | 106.3 | 110.7 | 115.6 | 121.3 | 119.4 | 114.0 | 155.3 |
| 2500 | 106.0 | 107.1 | 108.1 | 109.1 | 103.2 | 103.6 | 104.7 | 106.6 | 111.3 | 115.4 | 120.4 | 116.5 | 111.3 | 154.6 |
| 3150 | 105.5 | 105.8 | 105.2 | 107.1 | 103.4 | 103.0 | 104.7 | 107.3 | 111.8 | 116.2 | 119.1 | 116.0 | 111.0 | 154.3 |
| 4000 | 104.0 | 104.6 | 105.6 | 105.1 | 106.0 | 108.3 | 108.2 | 107.9 | 110.8 | 116.4 | 117.4 | 113.5 | 108.6 | 152.7 |
| 5000 | 102.9 | 103.7 | 104.2 | 105.5 | 105.6 | 106.2 | 108.3 | 109.8 | 110.7 | 115.1 | 116.3 | 112.9 | 108.7 | 152.7 |
| 6500 | 101.5 | 103.0 | 104.1 | 104.6 | 106.2 | 107.5 | 108.7 | 109.8 | 111.6 | 114.7 | 115.1 | 113.0 | 108.0 | 152.6 |
| 8000 | 101.5 | 101.8 | 102.7 | 103.9 | 106.0 | 106.8 | 108.7 | 109.7 | 111.2 | 114.0 | 114.2 | 112.1 | 107.1 | 152.3 |
| 10000 | 99.7 | 102.0 | 102.6 | 103.6 | 105.4 | 105.5 | 107.7 | 108.4 | 110.6 | 112.5 | 113.4 | 111.5 | 106.3 | 151.7 |
| 12500 | 97.6 | 100.8 | 101.2 | 102.7 | 103.7 | 104.1 | 107.2 | 106.8 | 108.2 | 110.7 | 112.1 | 109.9 | 104.6 | 150.6 |
| 16000 | 95.7 | 98.9 | 99.9 | 101.3 | 103.3 | 102.9 | 106.1 | 105.1 | 107.6 | 108.6 | 110.2 | 109.0 | 103.2 | 150.0 |
| 20000 | 93.4 | 95.2 | 97.4 | 98.5 | 101.7 | 101.1 | 104.2 | 102.3 | 105.6 | 105.9 | 105.3 | 103.5 | 100.3 | 148.1 |
| 25000 | 90.0 | 93.3 | 94.2 | 95.5 | 98.2 | 98.0 | 99.7 | 99.4 | 103.5 | 103.2 | 104.0 | 98.5 | 97.6 | 146.7 |
| 31500 | 87.6 | 91.0 | 93.2 | 94.6 | 96.4 | 95.6 | 99.0 | 97.4 | 100.7 | 101.1 | 101.0 | 98.4 | 95.8 | 146.8 |
| 40000 | 82.8 | 86.7 | 89.8 | 90.8 | 91.4 | 91.2 | 95.2 | 93.6 | 96.9 | 99.5 | 99.1 | 94.9 | 91.2 | 146.9 |
| 50000 | 77.2 | 81.2 | 84.7 | 85.2 | 84.6 | 85.4 | 89.2 | 87.6 | 91.2 | 95.1 | 95.6 | 88.3 | 85.7 | 146.2 |
| 63000 | 71.5 | 75.3 | 79.8 | 79.4 | 78.4 | 79.1 | 84.2 | 81.7 | 86.6 | 91.2 | 92.2 | 84.1 | 79.6 | 148.1 |
| 80000 | 68.1 | 71.3 | 77.8 | 75.2 | 73.5 | 74.9 | 83.1 | 77.1 | 83.1 | 88.9 | 90.2 | 78.2 | 79.2 | 154.9 |
| OVERALL MEASURES | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 115.4 | 115.6 | 115.9 | 116.2 | 117.1 | 117.3 | 118.4 | 119.2 | 122.4 | 126.9 | 131.0 | 131.1 | 128.7 | 167.0 |
| | 127.7 | 128.2 | 128.7 | 129.5 | 130.4 | 130.6 | 130.7 | 132.6 | 136.9 | 138.6 | 141.1 | 141.1 | 138.1 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 779 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | | | | | | | | |
|---|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (5% DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | | | | | | | | |
| FREQ. | 40. | 50. | 60. | 75. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. |
| 50 | 87.4 | 91.2 | 92.9 | 93.0 | 94.1 | 95.7 | 97.8 | 99.0 | 101.9 | 107.2 | 114.7 | 116.9 | 118.2 | | |
| 63 | 89.0 | 93.3 | 92.3 | 93.8 | 96.2 | 97.5 | 98.9 | 100.1 | 103.3 | 110.6 | 116.8 | 119.2 | 119.3 | | |
| 80 | 91.5 | 93.3 | 95.1 | 94.8 | 96.4 | 97.8 | 98.7 | 100.8 | 105.1 | 113.4 | 119.6 | 120.5 | 119.5 | | |
| 100 | 92.6 | 93.4 | 94.6 | 95.2 | 97.0 | 98.4 | 100.5 | 101.9 | 106.6 | 115.2 | 120.7 | 121.3 | 119.6 | | |
| 125 | 93.7 | 95.2 | 96.0 | 97.0 | 97.9 | 99.7 | 101.4 | 103.3 | 109.2 | 115.6 | 120.5 | 122.4 | 120.7 | | |
| 160 | 96.0 | 96.7 | 97.3 | 98.3 | 99.6 | 101.0 | 102.6 | 104.5 | 109.8 | 116.6 | 122.0 | 123.2 | 121.5 | | |
| 200 | 99.3 | 100.8 | 100.1 | 100.6 | 101.0 | 102.3 | 104.0 | 105.6 | 110.8 | 116.7 | 122.1 | 122.8 | 121.8 | | |
| 250 | 102.1 | 102.9 | 103.2 | 102.5 | 102.7 | 104.0 | 104.9 | 106.8 | 112.0 | 117.0 | 122.2 | 124.6 | 120.4 | | |
| 315 | 110.7 | 103.3 | 105.3 | 103.6 | 102.7 | 104.3 | 106.0 | 108.1 | 112.6 | 117.4 | 123.1 | 121.3 | 115.8 | | |
| 400 | 113.5 | 110.1 | 110.1 | 108.1 | 106.2 | 104.3 | 106.0 | 108.1 | 112.6 | 117.4 | 123.1 | 121.3 | 115.8 | | |
| 500 | 107.9 | 109.0 | 110.0 | 111.0 | 110.1 | 107.5 | 106.6 | 108.5 | 113.2 | 117.3 | 122.3 | 118.4 | 113.2 | | |
| 630 | 107.4 | 107.7 | 107.0 | 109.0 | 111.3 | 111.0 | 108.6 | 109.3 | 113.7 | 118.1 | 121.0 | 117.9 | 113.0 | | |
| 800 | 106.0 | 106.5 | 107.6 | 107.1 | 107.9 | 110.3 | 110.2 | 109.8 | 112.8 | 118.4 | 119.4 | 115.5 | 110.5 | | |
| 1000 | 104.9 | 105.7 | 106.2 | 107.5 | 107.6 | 108.2 | 110.3 | 111.7 | 112.7 | 117.1 | 118.2 | 114.9 | 110.7 | | |
| 1250 | 103.5 | 105.1 | 106.7 | 106.7 | 108.2 | 109.6 | 110.7 | 111.9 | 113.6 | 116.8 | 117.2 | 115.1 | 110.1 | | |
| 1600 | 103.7 | 104.1 | 104.9 | 106.1 | 108.2 | 109.1 | 111.0 | 111.9 | 113.4 | 116.3 | 116.4 | 114.3 | 109.3 | | |
| 2000 | 102.1 | 104.5 | 105.1 | 106.1 | 107.9 | 108.0 | 110.1 | 110.8 | 113.1 | 115.0 | 115.9 | 114.0 | 108.7 | | |
| 2500 | 100.4 | 103.6 | 104.0 | 105.5 | 106.5 | 106.9 | 110.9 | 109.6 | 111.0 | 113.5 | 114.8 | 112.7 | 107.4 | | |
| 3150 | 99.0 | 102.3 | 103.2 | 104.7 | 106.7 | 106.7 | 109.4 | 108.5 | 111.0 | 112.0 | 113.6 | 112.4 | 106.5 | | |
| 4000 | 97.5 | 99.3 | 101.4 | 102.5 | 105.8 | 105.1 | 108.3 | 106.4 | 109.7 | 110.0 | 109.3 | 107.5 | 104.4 | | |
| 5000 | 95.4 | 98.7 | 99.6 | 100.9 | 103.6 | 103.3 | 105.1 | 104.7 | 108.8 | 108.5 | 109.3 | 103.9 | 102.9 | | |
| 6300 | 94.5 | 97.9 | 100.1 | 101.5 | 103.3 | 102.5 | 105.9 | 104.3 | 107.6 | 108.0 | 107.9 | 105.3 | 102.8 | | |
| 8000 | 92.1 | 96.0 | 99.1 | 100.1 | 100.7 | 100.5 | 104.4 | 102.8 | 106.1 | 108.8 | 108.3 | 104.2 | 100.5 | | |
| 10000 | 89.5 | 93.5 | 97.0 | 97.5 | 96.9 | 97.7 | 101.5 | 100.0 | 103.6 | 107.4 | 107.9 | 100.7 | 98.0 | | |
| 12500 | 88.3 | 92.1 | 96.6 | 96.2 | 95.2 | 95.9 | 100.9 | 98.5 | 103.3 | 108.0 | 109.0 | 100.9 | 96.4 | | |
| 16000 | 91.2 | 94.4 | 100.9 | 98.3 | 96.7 | 98.0 | 106.2 | 100.2 | 106.2 | 112.0 | 113.0 | 101.4 | 99.3 | | |
| OVERALL CALCULATED | 117.4 | 117.7 | 118.2 | 118.5 | 119.4 | 119.6 | 121.1 | 121.6 | 124.8 | 129.1 | 133.0 | 132.9 | 130.3 | | |
| PNDS | 126.2 | 128.1 | 128.9 | 129.8 | 131.3 | 131.3 | 133.6 | 133.5 | 136.4 | 139.2 | 141.4 | 141.4 | 138.2 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **779** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-33m²(513in²)** SIZE

PROC. DATE - MONTH 8 DAY 25 HR. 21.4

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | |
|----------------------------------|---|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. |
| NO EGA | (0.70)(0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) |
| SIDELINE 2400. FT.
(731.52 M) | 59.2 | 64.6 | 67.4 | 68.2 | 69.7 | 71.4 | 73.2 |
| NFA
(C. RAD/SEC) | 63 | 66.6 | 66.7 | 69.0 | 71.7 | 73.2 | 74.5 |
| NFK
(O. RAD/SEC) | 80 | 63.2 | 66.6 | 69.4 | 69.9 | 72.0 | 73.5 |
| NFD 7500. RPM | 100 | 64.2 | 66.6 | 68.9 | 70.2 | 72.0 | 73.2 |
| (735. RAD/SEC) | 125 | 65.1 | 68.3 | 70.2 | 72.0 | 73.2 | 75.2 |
| AIRFLOW RATIO | 160 | 67.2 | 69.7 | 71.3 | 73.1 | 74.9 | 76.4 |
| WF/W 4.63 | 200 | 70.3 | 73.6 | 74.0 | 75.3 | 77.1 | 79.4 |
| VEHICLE | 250 | 72.9 | 75.4 | 76.9 | 77.0 | 77.8 | 79.3 |
| CONFIG | 315 | 81.2 | 80.5 | 78.8 | 77.9 | 77.4 | 78.9 |
| LOC C41 ANECHO CH | 400 | 80.6 | 82.0 | 83.2 | 82.1 | 80.7 | 78.9 |
| DATE 06-10-76 | 500 | 77.4 | 80.4 | 82.7 | 84.6 | 84.2 | 81.7 |
| RUN CONF7HIGHFLW | 630 | 76.2 | 78.6 | 80.0 | 82.2 | 85.0 | 84.8 |
| TAPE X07790 | 800 | 73.9 | 76.6 | 79.2 | 79.7 | 81.0 | 83.6 |
| FAN TIP SPEED | 1250 | 69.0 | 73.2 | 76.0 | 79.3 | 80.0 | 81.4 |
| FT/SEC | 1500 | 67.2 | 70.5 | 73.3 | 75.8 | 78.5 | 79.6 |
| OVERALL CALCULATED | 1600 | 63.3 | 69.0 | 71.8 | 74.1 | 76.7 | 77.1 |
| | 2000 | 58.2 | 65.4 | 68.8 | 71.6 | 73.2 | 73.9 |
| | 3150 | 51.5 | 59.6 | 63.6 | 66.9 | 69.9 | 70.0 |
| | 4000 | 41.8 | 49.8 | 55.8 | 59.3 | 63.9 | 63.7 |
| | 5000 | 35.1 | 45.3 | 50.6 | 54.5 | 58.7 | 58.9 |
| | 6300 | 20.5 | 33.1 | 41.0 | 46.0 | 49.6 | 49.4 |
| | 8000 | | 13.6 | 24.6 | 30.4 | 33.6 | 34.2 |
| | 10000 | | | 1.9 | 8.1 | 11.0 | 12.9 |
| | 12500 | | | | | | 15.6 |
| | 15000 | | | | | | 10.5 |
| | | | | | | | 7.5 |
| | | | | | | | 0.5 |
| | | | | | | | 100.0 |
| | | | | | | | 110.0 |
| | | | | | | | 120.0 |
| | | | | | | | 130.0 |
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| | | | | | | | 1000.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 779 ACQUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

| RDG. NO. | NO EGA | PROC. DATE - MONTH 8 DAY 26 HR. 18.5 | | | | | | | | | | | |
|----------|--------|--|------|------|------|------|--------------------|-------|-------|-------|-------|-------|-------|
| | | FREQ. (0.70)(0.87)(1.05)(1.22)(1.57)(1.75)(2.09)(2.27)(2.44)(2.62)(2.79)(3.0)(3.15)(3.3) | | | | | HUM. DAY - JENOTS) | | | | | | |
| 100 | 78.1 | 88.2 | 85.7 | 87.5 | 88.3 | 88.9 | 89.5 | 89.5 | 90.7 | 92.7 | 95.7 | 95.6 | 132.1 |
| 125 | 76.3 | 81.6 | 83.4 | 85.7 | 87.2 | 88.6 | 88.5 | 89.7 | 88.1 | 87.9 | 96.4 | 97.3 | 131.5 |
| 162 | 77.1 | 80.2 | 83.2 | 83.5 | 84.5 | 84.9 | 85.0 | 86.2 | 88.2 | 93.2 | 97.2 | 98.6 | 131.6 |
| 200 | 79.5 | 80.3 | 81.3 | 83.8 | 84.4 | 85.5 | 86.2 | 88.6 | 91.5 | 95.1 | 99.1 | 103.3 | 134.3 |
| 250 | 79.1 | 82.1 | 83.6 | 83.9 | 85.0 | 86.6 | 88.7 | 90.6 | 92.3 | 97.2 | 102.6 | 104.8 | 136.4 |
| 315 | 80.4 | 83.9 | 83.2 | 85.7 | 87.8 | 88.7 | 89.6 | 91.7 | 94.4 | 99.0 | 104.2 | 107.6 | 138.6 |
| 400 | 81.9 | 83.7 | 85.5 | 86.0 | 87.3 | 89.2 | 89.8 | 93.0 | 96.0 | 100.8 | 106.5 | 109.9 | 139.8 |
| 500 | 83.0 | 84.0 | 85.5 | 86.8 | 88.2 | 90.0 | 90.9 | 94.9 | 98.6 | 102.4 | 106.1 | 108.0 | 140.1 |
| 630 | 84.4 | 85.6 | 86.1 | 88.2 | 89.3 | 90.6 | 92.8 | 94.9 | 98.6 | 103.2 | 105.4 | 106.6 | 139.9 |
| 800 | 84.9 | 86.9 | 87.7 | 89.2 | 90.5 | 92.2 | 94.0 | 96.7 | 100.2 | 104.7 | 105.9 | 105.6 | 140.6 |
| 1000 | 86.5 | 88.0 | 89.2 | 90.0 | 91.1 | 93.2 | 94.4 | 97.3 | 100.5 | 104.3 | 105.5 | 103.7 | 145.3 |
| 1250 | 86.8 | 88.1 | 90.3 | 90.6 | 91.5 | 93.8 | 94.7 | 97.9 | 101.6 | 104.6 | 105.1 | 104.0 | 145.3 |
| 1600 | 86.9 | 88.9 | 89.2 | 90.2 | 92.3 | 94.7 | 95.1 | 98.0 | 101.4 | 104.8 | 105.5 | 104.9 | 140.9 |
| 2000 | 87.2 | 88.5 | 90.2 | 90.5 | 92.8 | 94.2 | 96.1 | 99.5 | 102.0 | 104.3 | 105.0 | 104.7 | 140.9 |
| 2500 | 87.5 | 89.3 | 89.8 | 91.6 | 92.7 | 94.3 | 95.7 | 99.1 | 102.3 | 103.7 | 104.1 | 104.3 | 140.7 |
| 3150 | 87.7 | 89.3 | 90.3 | 91.3 | 93.4 | 94.5 | 95.9 | 99.8 | 102.1 | 103.7 | 104.8 | 104.5 | 141.3 |
| 4000 | 87.3 | 88.6 | 89.8 | 91.6 | 93.0 | 94.3 | 96.5 | 100.1 | 101.8 | 103.2 | 102.9 | 104.3 | 140.6 |
| 5000 | 86.9 | 89.0 | 90.0 | 91.5 | 92.8 | 94.7 | 96.3 | 100.0 | 101.5 | 102.1 | 102.6 | 105.5 | 140.5 |
| 6300 | 86.2 | 88.5 | 89.6 | 91.1 | 93.7 | 95.0 | 97.2 | 99.3 | 101.3 | 101.2 | 102.6 | 104.6 | 140.3 |
| 8000 | 85.3 | 86.8 | 88.2 | 90.9 | 93.2 | 94.6 | 97.2 | 99.4 | 100.9 | 101.3 | 101.2 | 104.6 | 139.9 |
| 10000 | 83.4 | 87.0 | 88.1 | 89.9 | 92.7 | 93.8 | 96.2 | 99.1 | 100.4 | 99.5 | 100.7 | 104.1 | 138.3 |
| 12500 | 81.1 | 84.8 | 86.2 | 88.2 | 90.5 | 92.1 | 94.7 | 96.6 | 98.5 | 97.7 | 98.3 | 102.1 | 137.6 |
| 16000 | 79.2 | 84.2 | 85.2 | 87.6 | 89.6 | 91.0 | 94.1 | 94.6 | 96.9 | 95.7 | 96.5 | 100.3 | 135.7 |
| 20000 | 75.9 | 80.8 | 82.7 | 84.5 | 88.3 | 88.1 | 91.3 | 91.3 | 94.2 | 92.0 | 93.3 | 97.0 | 133.6 |
| 25000 | 72.1 | 78.6 | 79.8 | 81.6 | 84.1 | 84.8 | 86.1 | 88.5 | 91.3 | 88.5 | 90.8 | 92.3 | 133.6 |
| 31500 | 69.7 | 76.0 | 78.5 | 80.7 | 82.7 | 82.4 | 84.6 | 85.2 | 87.5 | 84.9 | 87.6 | 92.7 | 132.1 |
| 40000 | 64.1 | 71.3 | 74.7 | 76.5 | 76.8 | 78.0 | 79.3 | 80.2 | 82.7 | 81.4 | 83.7 | 87.5 | 129.4 |
| 50000 | 56.8 | 64.1 | 68.1 | 69.9 | 70.8 | 71.5 | 73.0 | 74.5 | 76.4 | 74.5 | 77.8 | 79.7 | 128.4 |
| 63000 | 49.1 | 56.7 | 62.2 | 63.1 | 61.5 | 63.5 | 63.0 | 65.6 | 68.5 | 67.4 | 71.1 | 73.0 | 128.4 |
| 80000 | 41.2 | 50.4 | 57.0 | 56.0 | 54.7 | 56.0 | 57.0 | 57.5 | 62.5 | 61.9 | 66.6 | 65.6 | 131.6 |

OVERALL MEASURED
 OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 780 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

| NO EGA | FREQ. | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PROC. DATE - MONTH 8 DAY 26 HR. 18.5 | | | | | |
|--------------------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
| RDG. NO. | 50 | 80.9 | 83.9 | 85.4 | 85.7 | 86.8 | 87.6 | 89.7 | 90.5 | 91.4 | 93.6 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 |
| RADIAL 150. FT. | 63 | 82.2 | 85.8 | 85.0 | 87.6 | 89.7 | 90.5 | 91.4 | 93.6 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 |
| VEHICLE | 80 | 83.8 | 85.5 | 87.4 | 88.7 | 89.2 | 91.0 | 91.7 | 94.8 | 97.8 | 100.8 | 106.0 | 109.5 | 149.7 | 151.9 | 153.1 |
| CONFIG | 125 | 86.2 | 87.5 | 88.0 | 90.0 | 91.1 | 92.5 | 94.6 | 96.8 | 103.5 | 105.1 | 107.3 | 108.4 | 153.4 | 153.2 | 153.9 |
| LOC | 200 | 88.3 | 89.8 | 91.1 | 91.9 | 93.0 | 95.1 | 96.2 | 99.1 | 102.3 | 106.2 | 107.4 | 105.5 | 153.6 | 153.9 | 153.7 |
| DATE | 250 | 88.6 | 89.9 | 92.2 | 92.5 | 93.3 | 95.7 | 96.6 | 99.7 | 103.4 | 106.5 | 107.0 | 105.9 | 153.9 | 153.9 | 153.9 |
| RUN CONF | 315 | 88.7 | 90.8 | 91.0 | 92.1 | 94.2 | 96.5 | 96.9 | 99.8 | 103.3 | 106.6 | 107.3 | 106.7 | 154.2 | 154.3 | 154.3 |
| TAPE | 400 | 89.0 | 90.3 | 92.1 | 92.4 | 94.7 | 96.1 | 98.0 | 101.4 | 103.8 | 106.2 | 106.9 | 106.5 | 154.3 | 154.3 | 154.3 |
| BAR | 630 | 89.7 | 91.2 | 92.2 | 93.3 | 95.3 | 96.5 | 97.8 | 101.8 | 104.0 | 105.6 | 106.0 | 106.2 | 154.3 | 154.3 | 154.3 |
| (99381. N/M2) | 800 | 89.2 | 90.5 | 91.8 | 93.6 | 94.9 | 96.3 | 98.4 | 102.1 | 103.8 | 105.2 | 104.8 | 106.4 | 154.3 | 154.3 | 154.3 |
| TAMB | 1000 | 88.9 | 90.9 | 92.0 | 93.5 | 94.8 | 96.7 | 98.3 | 102.0 | 103.5 | 104.1 | 104.7 | 106.7 | 153.9 | 153.9 | 153.9 |
| (292. DEG K) | 1250 | 88.3 | 90.6 | 91.6 | 93.2 | 95.7 | 97.1 | 99.2 | 101.4 | 103.4 | 103.3 | 104.7 | 107.6 | 153.7 | 153.7 | 153.7 |
| TWET | 1600 | 87.5 | 89.1 | 90.4 | 93.1 | 95.5 | 96.8 | 99.5 | 101.6 | 103.1 | 103.5 | 103.4 | 106.8 | 153.8 | 153.8 | 153.8 |
| (289. DEG K) | 2000 | 85.9 | 89.5 | 90.6 | 92.3 | 95.1 | 96.2 | 98.6 | 101.6 | 102.8 | 102.0 | 103.2 | 106.5 | 153.2 | 153.2 | 153.2 |
| HACT11.86 GM/M3 | 2500 | 83.9 | 87.6 | 89.0 | 91.0 | 93.3 | 94.9 | 97.5 | 99.4 | 101.3 | 100.5 | 101.1 | 104.9 | 151.6 | 151.6 | 151.6 |
| (.01186 KG/M3) | 3150 | 82.5 | 87.6 | 88.5 | 90.9 | 93.0 | 94.3 | 97.5 | 98.0 | 100.3 | 99.0 | 99.9 | 103.6 | 150.9 | 150.9 | 150.9 |
| FREQ. SHIFT | 4000 | 80.0 | 84.8 | 86.7 | 88.6 | 92.3 | 92.2 | 95.3 | 95.4 | 98.2 | 96.0 | 97.4 | 101.1 | 149.0 | 149.0 | 149.0 |
| JET | 5000 | 77.4 | 84.0 | 85.1 | 86.9 | 89.4 | 90.1 | 91.4 | 93.8 | 96.7 | 93.8 | 96.1 | 97.7 | 146.9 | 146.9 | 146.9 |
| DIAMETER RATIO | 6300 | 76.6 | 83.0 | 85.4 | 87.6 | 89.6 | 89.3 | 91.5 | 92.1 | 94.7 | 91.8 | 94.5 | 99.6 | 146.9 | 146.9 | 146.9 |
| DF/DM 4.63 | 8000 | 73.4 | 80.6 | 84.0 | 85.7 | 86.0 | 87.3 | 88.5 | 89.4 | 92.0 | 90.7 | 93.0 | 96.8 | 145.4 | 145.4 | 145.4 |
| | 10000 | 69.1 | 76.4 | 80.4 | 82.2 | 83.1 | 83.8 | 85.3 | 85.3 | 88.7 | 86.8 | 90.1 | 92.0 | 142.7 | 142.7 | 142.7 |
| | 12500 | 65.9 | 73.5 | 79.0 | 79.8 | 78.3 | 80.2 | 79.8 | 82.4 | 85.2 | 84.2 | 87.9 | 89.8 | 141.7 | 141.7 | 141.7 |
| | 16000 | 64.4 | 73.6 | 80.1 | 79.2 | 80.8 | 80.6 | 85.6 | 85.6 | 85.6 | 85.6 | 89.7 | 88.8 | 144.9 | 144.9 | 144.9 |
| OVERALL CALCULATED | 100.2 | 102.3 | 103.5 | 104.9 | 106.7 | 108.2 | 110.1 | 112.8 | 115.2 | 117.3 | 118.9 | 120.1 | 120.1 | 163.4 | 163.4 | 163.4 |
| PND8 | 109.7 | 113.3 | 114.5 | 116.4 | 118.4 | 119.7 | 122.0 | 123.9 | 126.1 | 126.4 | 127.6 | 130.1 | 130.1 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 780 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-.33m²(513in²) SIZE

+ 80° spectra missing, see repeat data point

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|--------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 180. | 200. |
| NO EGA | 52.7 | 57.3 | 59.9 | 60.9 | 62.6 | 64.0 | 65.8 | 66.9 | 67.6 | 70.8 | 74.0 | 72.7 | | |
| SIDELINE 2400. FT. | 54.0 | 59.1 | 59.5 | 62.7 | 65.4 | 66.1 | 66.6 | 68.0 | 69.6 | 72.6 | 75.5 | 75.5 | | |
| (731-52 M) | 55.4 | 58.8 | 61.7 | 63.7 | 65.6 | 67.3 | 67.8 | 70.0 | 71.8 | 75.8 | 77.1 | 75.6 | | |
| NFA (0. RAD/SEC) | 57.6 | 60.5 | 62.2 | 65.0 | 66.6 | 67.9 | 69.6 | 71.0 | 73.5 | 76.5 | 76.3 | 73.8 | | |
| NFK (1. RPM) | 58.0 | 61.7 | 63.6 | 65.9 | 67.8 | 69.3 | 70.7 | 72.6 | 74.9 | 77.8 | 76.6 | 72.5 | | |
| (0. RAD/SEC) | 59.3 | 62.6 | 65.0 | 66.6 | 68.2 | 70.2 | 70.9 | 73.0 | 75.1 | 77.2 | 75.9 | 70.2 | | |
| NFD (7500. RPM) | 59.4 | 62.4 | 65.9 | 67.0 | 68.4 | 70.6 | 71.1 | 73.4 | 76.0 | 77.3 | 75.2 | 70.0 | | |
| (785. RAD/SEC) | 59.2 | 63.0 | 64.5 | 66.4 | 69.1 | 71.3 | 71.2 | 73.3 | 75.5 | 77.1 | 75.1 | 70.2 | | |
| AIRFLOW RATIO | 58.9 | 62.6 | 64.5 | 67.1 | 68.9 | 70.3 | 71.2 | 73.8 | 75.7 | 76.2 | 74.1 | 69.2 | | |
| WF/WM 4.63 | 58.5 | 62.1 | 64.5 | 66.4 | 69.2 | 70.1 | 71.0 | 74.0 | 74.8 | 74.4 | 72.4 | 66.7 | | |
| VEHICLE CELL41 | 57.1 | 60.6 | 63.4 | 66.2 | 68.2 | 69.4 | 71.0 | 73.7 | 73.9 | 73.0 | 69.3 | 64.8 | | |
| CONFIG NC53 | 55.7 | 60.1 | 62.8 | 65.3 | 67.4 | 69.1 | 70.2 | 72.8 | 72.7 | 70.9 | 67.8 | 63.2 | | |
| LDC C41 ANECH CH | 53.7 | 58.7 | 61.5 | 64.1 | 67.5 | 68.7 | 70.2 | 71.2 | 71.5 | 68.7 | 66.0 | 61.5 | | |
| DATE 06-08-76 | 51.0 | 55.5 | 58.8 | 62.8 | 66.0 | 67.1 | 69.1 | 70.0 | 69.6 | 67.0 | 62.2 | 57.0 | | |
| RUN CONF7HIGHFLW | 47.1 | 54.0 | 57.3 | 60.4 | 64.2 | 65.1 | 66.7 | 68.3 | 67.4 | 63.2 | 58.9 | 52.3 | | |
| TAPE X07800 | 41.7 | 49.4 | 53.3 | 56.8 | 60.3 | 61.6 | 63.4 | 63.6 | 63.0 | 58.3 | 52.5 | 44.3 | | |
| FAN TIP SPEED | 35.0 | 44.8 | 48.8 | 53.2 | 56.6 | 57.6 | 59.7 | 58.3 | 57.5 | 51.5 | 44.3 | 37.6 | | |
| FT/SEC | 24.4 | 35.4 | 41.1 | 45.4 | 50.9 | 50.3 | 52.1 | 49.8 | 48.8 | 40.4 | 31.4 | 14.6 | | |
| OVERALL CALCULATED | 17.1 | 30.6 | 36.1 | 40.6 | 45.0 | 45.2 | 45.0 | 44.8 | 43.3 | 33.5 | 24.0 | 2.2 | | |
| PND8 | 2.5 | 18.2 | 26.4 | 32.0 | 36.6 | 35.7 | 35.9 | 33.1 | 29.9 | 17.8 | 4.6 | | | |
| 8000 | | | 9.5 | 16.0 | 19.7 | 20.2 | 18.8 | 14.9 | 9.6 | | | | | |
| 10000 | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 69.3 | 73.0 | 75.4 | 77.5 | 79.8 | 81.3 | 82.3 | 84.4 | 85.8 | 87.0 | 86.5 | 83.5 | | |
| PND8 | 73.6 | 78.1 | 81.0 | 83.9 | 86.9 | 88.1 | 89.6 | 91.1 | 91.5 | 91.3 | 89.2 | 84.4 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 780 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

+ 80° spectra missing, see repeat data point

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANIS)
 PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 160. | 180. |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 63 | 80 | 89.1 | 91.2 | 96.7 | 97.7 | 100.3 | 86.9 | 94.8 | 91.5 | 94.9 | 97.5 | 97.4 | 97.5 | 97.6 |
| 80 | 80 | 87.3 | 86.6 | 97.6 | 99.9 | 101.5 | 85.4 | 88.5 | 89.4 | 93.6 | 96.7 | 98.1 | 97.5 | 98.1 |
| 100 | 80 | 87.4 | 93.2 | 98.7 | 101.2 | 104.0 | 85.2 | 87.5 | 90.0 | 91.7 | 93.5 | 92.9 | 93.9 | 92.9 |
| 125 | 80 | 90.8 | 95.3 | 101.0 | 106.1 | 108.2 | 88.5 | 86.9 | 87.3 | 91.3 | 93.9 | 95.8 | 93.9 | 95.8 |
| 160 | 80 | 91.8 | 96.8 | 104.8 | 107.9 | 109.5 | 86.3 | 89.0 | 90.1 | 91.6 | 94.4 | 92.6 | 94.4 | 92.6 |
| 200 | 80 | 93.9 | 99.2 | 106.7 | 110.2 | 111.6 | 88.4 | 92.1 | 89.2 | 93.4 | 96.8 | 98.2 | 96.8 | 98.2 |
| 250 | 80 | 95.2 | 101.2 | 109.2 | 111.8 | 111.8 | 90.7 | 91.1 | 92.3 | 93.7 | 96.3 | 98.2 | 96.3 | 98.2 |
| 315 | 80 | 96.5 | 102.5 | 109.5 | 111.8 | 112.2 | 91.5 | 90.9 | 91.6 | 94.0 | 96.9 | 99.3 | 96.9 | 99.3 |
| 400 | 80 | 98.4 | 103.4 | 109.1 | 111.9 | 112.3 | 92.9 | 93.3 | 92.7 | 95.4 | 98.7 | 100.9 | 98.7 | 100.9 |
| 500 | 80 | 99.9 | 104.7 | 108.7 | 111.2 | 111.8 | 94.9 | 94.0 | 93.9 | 96.7 | 99.7 | 101.9 | 96.7 | 101.9 |
| 630 | 80 | 101.8 | 105.6 | 107.8 | 109.4 | 110.7 | 97.2 | 97.4 | 97.3 | 99.0 | 101.6 | 103.3 | 101.6 | 103.3 |
| 800 | 80 | 102.8 | 106.5 | 108.5 | 109.4 | 110.6 | 104.7 | 102.3 | 99.2 | 99.9 | 101.9 | 104.4 | 101.9 | 104.4 |
| 1000 | 80 | 102.7 | 106.4 | 107.7 | 110.0 | 110.3 | 105.7 | 103.6 | 103.3 | 103.2 | 104.3 | 105.5 | 103.2 | 104.3 |
| 1250 | 80 | 102.8 | 106.3 | 107.3 | 110.9 | 110.5 | 105.1 | 104.7 | 103.6 | 106.1 | 107.2 | 105.9 | 106.1 | 107.2 |
| 1600 | 80 | 102.3 | 106.8 | 107.8 | 110.3 | 108.4 | 103.8 | 103.4 | 103.6 | 105.8 | 108.6 | 106.8 | 105.8 | 108.6 |
| 2000 | 80 | 101.9 | 103.2 | 106.5 | 108.5 | 106.6 | 102.3 | 102.2 | 102.1 | 103.8 | 106.2 | 108.4 | 103.8 | 106.2 |
| 2500 | 80 | 102.0 | 102.5 | 105.8 | 107.6 | 106.4 | 100.8 | 100.9 | 101.1 | 104.2 | 106.3 | 108.5 | 104.2 | 106.3 |
| 3150 | 80 | 101.3 | 102.3 | 104.7 | 106.7 | 105.5 | 99.8 | 100.7 | 99.9 | 103.7 | 106.8 | 109.2 | 103.7 | 106.8 |
| 4000 | 80 | 101.2 | 100.8 | 103.6 | 106.1 | 104.7 | 98.3 | 100.2 | 99.9 | 102.6 | 106.8 | 108.7 | 102.6 | 106.8 |
| 5000 | 80 | 98.7 | 97.8 | 101.0 | 104.7 | 103.2 | 96.5 | 98.7 | 98.4 | 102.5 | 105.9 | 108.1 | 102.5 | 105.9 |
| 6300 | 80 | 97.7 | 96.5 | 98.7 | 102.6 | 100.6 | 94.9 | 97.4 | 96.8 | 101.7 | 103.4 | 107.0 | 101.7 | 103.4 |
| 8000 | 80 | 94.0 | 92.3 | 94.9 | 98.8 | 98.8 | 92.2 | 93.9 | 95.0 | 98.9 | 103.7 | 105.5 | 98.9 | 103.7 |
| 10000 | 80 | 90.7 | 88.6 | 92.8 | 94.3 | 95.8 | 89.8 | 92.8 | 91.3 | 96.0 | 100.0 | 100.5 | 96.0 | 100.0 |
| 12500 | 80 | 87.5 | 84.6 | 89.5 | 94.9 | 93.1 | 87.3 | 90.7 | 90.4 | 94.2 | 98.5 | 99.3 | 94.2 | 98.5 |
| 16000 | 80 | 82.0 | 80.9 | 85.9 | 89.7 | 88.2 | 82.6 | 85.7 | 86.4 | 90.7 | 93.9 | 95.6 | 90.7 | 93.9 |
| 20000 | 80 | 74.5 | 74.4 | 80.5 | 83.3 | 81.5 | 74.9 | 74.7 | 80.5 | 84.5 | 87.5 | 88.4 | 84.5 | 87.5 |
| 25000 | 80 | 66.5 | 67.1 | 74.1 | 76.2 | 74.9 | 68.8 | 73.9 | 73.7 | 78.5 | 81.8 | 82.0 | 78.5 | 81.8 |
| 31500 | 80 | 58.9 | 60.1 | 67.3 | 68.9 | 71.1 | 63.4 | 68.2 | 68.1 | 72.8 | 76.6 | 78.6 | 72.8 | 76.6 |
| 40000 | 80 | 113.4 | 116.0 | 120.1 | 122.5 | 122.8 | 113.3 | 113.1 | 112.6 | 115.0 | 117.8 | 119.2 | 115.0 | 117.8 |
| 50000 | 80 | 126.1 | 128.5 | 132.2 | 134.6 | 134.7 | 126.2 | 126.0 | 125.7 | 127.9 | 130.6 | 131.2 | 127.9 | 130.6 |

OVERALL MEASURED
 OVERALL CALCULATED

CONFIGURATION 7 TEST POINT 781 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

+ 80° spectra missing, see repeat data point

| FULL SIZE SOUND PRESSURE LEVELS | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | INLET IN DEGREES (AND RADIAN) | | D. O. (C.) | | | | | | | | |
|---------------------------------|-------|--|-------|-------------------------------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. | 40. | 50. | 60. | 70. | 90. | 110. | 120. | 130. | 140. | 160. | 160. | 160. | 160. | PWL |
| NO EGA | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| ROG. NO. | 50 | 93.6 | 98.7 | 106.7 | 109.7 | 111.3 | 88.2 | 90.8 | 92.0 | 93.4 | 96.2 | 99.4 | 159.5 | 161.7 |
| RADIAL 150. FT. | 63 | 95.7 | 101.0 | 108.5 | 112.1 | 113.4 | 90.3 | 93.9 | 91.1 | 95.3 | 98.6 | 100.0 | 162.7 | 162.7 |
| (46. M) | 80 | 97.0 | 103.0 | 111.0 | 113.6 | 113.7 | 92.5 | 92.9 | 94.1 | 95.5 | 98.1 | 100.1 | 163.0 | 163.0 |
| VEHICLE | 100 | 98.4 | 104.4 | 111.4 | 113.7 | 114.0 | 93.4 | 92.8 | 93.4 | 95.9 | 98.7 | 101.2 | 163.1 | 163.1 |
| CELL41 | 125 | 100.2 | 105.2 | 111.0 | 113.8 | 114.1 | 94.7 | 95.1 | 94.5 | 97.2 | 100.6 | 102.8 | 163.7 | 163.7 |
| NC53 | 160 | 101.7 | 106.5 | 110.5 | 113.0 | 113.6 | 96.7 | 95.9 | 95.8 | 98.5 | 101.6 | 103.8 | 161.7 | 161.7 |
| LOC C41 ANECH CH | 200 | 102.0 | 106.8 | 110.1 | 110.9 | 112.5 | 99.1 | 99.2 | 99.1 | 100.8 | 103.4 | 105.1 | 161.9 | 161.9 |
| DATE 06-08-76 | 250 | 103.6 | 107.4 | 109.7 | 111.2 | 112.6 | 100.2 | 100.1 | 100.2 | 101.9 | 103.7 | 106.2 | 162.8 | 162.8 |
| RUN CONF7HIGHFLW | 315 | 104.0 | 107.0 | 110.0 | 112.1 | 113.4 | 106.5 | 104.2 | 101.1 | 101.8 | 104.1 | 106.1 | 162.7 | 162.7 |
| TAPE XC7810 | 400 | 103.8 | 106.8 | 109.6 | 111.9 | 112.2 | 107.6 | 105.5 | 105.1 | 105.1 | 106.2 | 107.4 | 163.3 | 163.3 |
| BAR 29.4 HG | 500 | 104.7 | 106.2 | 109.2 | 112.7 | 112.3 | 106.9 | 106.6 | 105.5 | 108.0 | 109.0 | 107.7 | 162.9 | 162.9 |
| (99347. N/M2) | 630 | 104.7 | 106.7 | 109.7 | 112.2 | 110.3 | 105.7 | 105.3 | 105.5 | 107.7 | 110.6 | 108.6 | 161.7 | 161.7 |
| TAMB 64. DEG F | 800 | 104.2 | 105.3 | 108.8 | 111.1 | 108.4 | 104.3 | 104.2 | 104.1 | 105.8 | 108.2 | 110.3 | 161.5 | 161.5 |
| (291. DEG K) | 1000 | 103.9 | 105.2 | 108.5 | 110.5 | 108.6 | 103.4 | 103.8 | 104.0 | 106.2 | 108.3 | 110.5 | 161.5 | 161.5 |
| TWET 60. DEG F | 1250 | 104.0 | 104.6 | 107.9 | 109.7 | 108.5 | 102.8 | 103.0 | 103.2 | 106.1 | 109.5 | 111.2 | 161.0 | 161.0 |
| (288. DEG K) | 1600 | 103.5 | 104.6 | 106.9 | 108.9 | 107.7 | 102.1 | 103.0 | 102.1 | 105.9 | 109.0 | 111.4 | 160.8 | 160.8 |
| HACT11.71 GM/M3 | 2000 | 103.6 | 103.2 | 106.1 | 108.6 | 107.1 | 100.7 | 102.6 | 102.3 | 105.1 | 109.2 | 111.2 | 160.0 | 160.0 |
| (.01171 KG/M3) | 3150 | 101.1 | 99.8 | 102.0 | 105.9 | 104.0 | 99.3 | 101.5 | 101.2 | 105.3 | 108.7 | 110.9 | 159.3 | 159.3 |
| FREQ. SHIFT | 4000 | 98.1 | 96.4 | 99.0 | 102.8 | 102.8 | 96.3 | 98.0 | 99.1 | 102.9 | 107.8 | 109.6 | 158.1 | 158.1 |
| JET | 5000 | 96.0 | 93.9 | 98.1 | 99.7 | 101.1 | 95.1 | 98.1 | 96.7 | 101.4 | 105.3 | 105.8 | 155.8 | 155.8 |
| DIAMETER RATIO | 6500 | 94.4 | 91.5 | 96.4 | 101.8 | 100.0 | 94.2 | 97.6 | 97.3 | 101.2 | 105.4 | 106.2 | 156.5 | 156.5 |
| DF/DM 4.63 | 8000 | 91.3 | 90.2 | 95.2 | 98.9 | 97.5 | 91.9 | 95.0 | 95.7 | 99.9 | 103.1 | 104.9 | 153.3 | 153.3 |
| OVERALL CALCULATED | 10000 | 86.8 | 86.7 | 92.8 | 95.6 | 93.8 | 87.2 | 92.1 | 92.8 | 96.8 | 99.9 | 100.7 | 153.0 | 153.0 |
| | 12500 | 83.3 | 83.8 | 90.3 | 93.0 | 91.7 | 85.6 | 90.7 | 90.5 | 95.3 | 98.6 | 98.8 | 157.4 | 157.4 |
| | 16000 | 82.0 | 83.2 | 90.9 | 92.0 | 94.2 | 86.5 | 91.3 | 91.2 | 95.9 | 99.7 | 101.7 | 175.1 | 175.1 |
| | PNDB | 126.5 | 127.1 | 130.5 | 133.3 | 132.5 | 124.9 | 124.9 | 124.3 | 125.9 | 129.5 | 134.4 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 781 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-33m²(513in²)

+ 80° spectra missing, see repeat data point

| NO EGA | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | |
|----------------------|--------------------------|--------|--------|--------|--------|--|--------|--------|--------|--------|-------------------------------|
| | 40. | 50. | 60. | 75. | 90. | 100. | 110. | 120. | 130. | 140. | 160. |
| SIDELINE 2400. FT. | (C.70)(0.87)(1.05) | (1.22) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.79) | (2.79) | (0.) (0.) (0.) (0.) (0.) |
| (731.52 M) | 65.5 | 72.1 | 81.1 | 84.9 | 87.1 | 63.8 | 66.0 | 66.4 | 66.8 | 68.1 | 65.6 |
| NFA (1. RPM) | 67.5 | 74.4 | 83.0 | 87.2 | 89.1 | 65.8 | 69.1 | 65.5 | 68.6 | 70.3 | 66.0 |
| NFK (1. RPM) | 68.7 | 76.3 | 85.4 | 88.7 | 89.3 | 68.1 | 68.5 | 68.5 | 68.8 | 69.8 | 65.9 |
| NFD (7500. RPM) | 69.9 | 77.6 | 85.7 | 89.6 | 89.6 | 68.8 | 67.8 | 67.7 | 69.1 | 70.3 | 66.8 |
| (785. RAD/SEC) | 71.6 | 78.3 | 85.2 | 88.7 | 89.6 | 70.1 | 70.1 | 68.7 | 70.3 | 72.0 | 68.1 |
| AIREFLOW RATIO | 73.0 | 79.4 | 84.6 | 87.9 | 89.0 | 72.0 | 70.7 | 69.9 | 71.4 | 72.8 | 68.8 |
| WF/WM 4.63 | 73.1 | 79.6 | 84.0 | 85.6 | 87.7 | 74.2 | 73.9 | 73.0 | 73.6 | 74.5 | 69.7 |
| VEHICLE CELL41 | 74.4 | 79.9 | 83.4 | 85.7 | 87.7 | 75.1 | 74.6 | 73.9 | 74.5 | 74.5 | 70.3 |
| CONFIG NCS3 | 74.4 | 79.3 | 83.5 | 86.4 | 88.3 | 81.3 | 78.4 | 74.5 | 74.0 | 74.6 | 69.5 |
| LOC C41 ANECH CH | 73.8 | 78.7 | 82.7 | 85.9 | 86.6 | 82.0 | 79.5 | 78.3 | 77.0 | 76.2 | 70.0 |
| DATE 06-08-76 | 74.1 | 77.6 | 82.0 | 86.4 | 86.6 | 81.1 | 80.2 | 78.3 | 79.4 | 78.5 | 69.4 |
| TAPE X07810 | 73.5 | 77.6 | 82.0 | 85.4 | 84.2 | 79.4 | 78.5 | 77.8 | 78.6 | 79.4 | 69.1 |
| FAN TIP SPEED FT/SEC | 72.1 | 75.9 | 80.4 | 83.6 | 81.7 | 77.4 | 76.7 | 75.7 | 75.9 | 76.0 | 68.9 |
| OVERALL CALCULATED | 70.7 | 74.4 | 79.3 | 82.3 | 81.2 | 75.8 | 75.7 | 74.8 | 75.4 | 75.1 | 67.0 |
| PNDB | 69.5 | 72.7 | 77.7 | 80.6 | 80.2 | 74.4 | 73.9 | 73.0 | 74.2 | 75.0 | 65.1 |
| | 67.0 | 71.2 | 75.3 | 78.5 | 78.2 | 72.4 | 72.6 | 70.5 | 72.4 | 72.5 | 61.6 |
| | 64.8 | 67.8 | 72.8 | 76.7 | 76.2 | 69.6 | 70.7 | 69.0 | 69.6 | 70.4 | 56.9 |
| | 59.3 | 62.4 | 68.0 | 73.3 | 73.0 | 66.0 | 67.4 | 65.5 | 67.0 | 66.6 | 50.2 |
| | 53.5 | 57.1 | 62.3 | 68.1 | 67.6 | 61.5 | 62.9 | 60.5 | 62.3 | 61.2 | 39.4 |
| | 400 | 42.5 | 46.9 | 53.4 | 59.6 | 54.4 | 54.8 | 53.5 | 53.5 | 52.2 | 23.1 |
| | 5000 | 35.7 | 40.6 | 49.1 | 53.3 | 50.2 | 51.8 | 47.6 | 48.0 | 45.0 | 10.4 |
| | 6300 | 20.3 | 26.7 | 37.3 | 46.3 | 47.0 | 40.6 | 42.1 | 38.3 | 36.4 | 31.4 |
| | 8000 | 7.9 | 20.7 | 29.2 | 31.2 | 24.7 | 25.2 | 21.2 | 17.5 | 8.0 | |
| | 10000 | | | 6.1 | 9.0 | 1.3 | | | | | |
| | 12500 | | | | | | | | | | |
| | 16000 | | | | | | | | | | |
| OVERALL CALCULATED | 84.1 | 89.4 | 95.0 | 98.2 | 99.2 | 85.8 | 87.6 | 86.2 | 86.7 | 86.9 | 80.2 |
| PNDB | 89.4 | 94.2 | 99.3 | 102.9 | 103.5 | 95.4 | 94.5 | 92.8 | 93.7 | 93.7 | 84.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE. SIZE
7 **781** 731.5m(2400ft.) SIDELINE FULL-33m²(513in²)

+ 80° spectra missing, see repeat data point

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. (C.G.)

FREQ. (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.) (C.G.)
 50 53 60 70 80 90 100 110 120 130 140 150 160 0. 0. 0. 0. PWL

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PWL | |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|--|
| 100 | 76.4 | 36.7 | 33.9 | 85.2 | 86.5 | 87.0 | 86.5 | 87.2 | 87.2 | 89.7 | 94.7 | 94.1 | 96.7 | 131.4 | | | | | | |
| 125 | 76.1 | 60.9 | 32.9 | 84.9 | 86.2 | 87.4 | 87.2 | 87.7 | 86.1 | 86.2 | 94.9 | 96.6 | 97.6 | 131.8 | | | | | | |
| 160 | 75.9 | 78.7 | 81.7 | 82.0 | 82.8 | 83.0 | 83.5 | 85.4 | 91.0 | 95.9 | 97.1 | 99.4 | 132.3 | | | | | | | |
| 200 | 78.3 | 72.0 | 50.5 | 82.3 | 82.7 | 83.5 | 84.7 | 86.1 | 89.0 | 93.1 | 97.8 | 101.5 | 103.2 | 135.7 | | | | | | |
| 250 | 76.6 | 72.6 | 52.3 | 81.6 | 83.0 | 84.3 | 87.2 | 87.9 | 89.8 | 94.9 | 101.4 | 103.5 | 105.1 | 137.7 | | | | | | |
| 315 | 78.4 | 83.2 | 81.9 | 86.0 | 86.3 | 87.2 | 87.6 | 88.5 | 92.2 | 97.8 | 103.5 | 106.9 | 107.4 | 140.3 | | | | | | |
| 400 | 80.7 | 83.0 | 84.7 | 84.8 | 86.3 | 87.2 | 88.6 | 90.0 | 93.7 | 100.3 | 103.5 | 108.7 | 108.2 | 142.1 | | | | | | |
| 500 | 81.3 | 82.8 | 84.3 | 84.6 | 86.7 | 87.8 | 89.1 | 91.0 | 92.2 | 96.1 | 102.7 | 107.8 | 109.8 | 143.2 | | | | | | |
| 630 | 82.4 | 84.6 | 85.4 | 86.7 | 87.8 | 89.1 | 91.0 | 92.2 | 96.1 | 102.7 | 107.8 | 110.8 | 108.9 | 144.1 | | | | | | |
| 800 | 84.1 | 85.9 | 87.2 | 88.2 | 89.5 | 90.9 | 92.0 | 94.2 | 97.9 | 103.5 | 109.4 | 110.6 | 108.7 | 144.4 | | | | | | |
| 1000 | 87.2 | 88.5 | 89.5 | 89.6 | 89.9 | 91.2 | 93.1 | 94.0 | 95.6 | 98.0 | 103.3 | 108.8 | 108.0 | 143.7 | | | | | | |
| 1250 | 86.3 | 89.6 | 90.8 | 89.9 | 91.2 | 93.1 | 94.0 | 95.6 | 98.0 | 103.3 | 108.8 | 108.5 | 106.8 | 143.3 | | | | | | |
| 1600 | 86.9 | 89.7 | 89.7 | 90.0 | 91.8 | 93.7 | 93.8 | 95.7 | 99.4 | 103.0 | 107.5 | 107.1 | 105.4 | 142.5 | | | | | | |
| 2000 | 87.2 | 89.5 | 90.7 | 90.8 | 92.4 | 93.2 | 95.1 | 96.5 | 99.0 | 102.6 | 104.3 | 103.4 | 101.0 | 140.5 | | | | | | |
| 2500 | 88.8 | 90.8 | 91.3 | 90.9 | 92.5 | 94.5 | 94.5 | 96.3 | 99.8 | 103.4 | 104.1 | 102.3 | 97.3 | 139.1 | | | | | | |
| 3150 | 93.2 | 94.5 | 94.6 | 94.6 | 100.2 | 95.8 | 95.7 | 96.3 | 99.8 | 103.4 | 104.1 | 102.3 | 97.3 | 141.4 | | | | | | |
| 4000 | 91.3 | 92.1 | 92.3 | 91.9 | 92.2 | 92.8 | 94.2 | 95.6 | 97.8 | 99.4 | 97.6 | 95.0 | 91.6 | 137.5 | | | | | | |
| 5000 | 94.6 | 94.0 | 92.7 | 93.3 | 93.3 | 94.0 | 94.1 | 95.3 | 97.5 | 97.3 | 96.0 | 93.7 | 91.2 | 137.3 | | | | | | |
| 6300 | 95.7 | 94.8 | 94.0 | 93.8 | 93.4 | 95.0 | 96.2 | 95.1 | 97.3 | 96.7 | 94.9 | 92.8 | 91.0 | 137.8 | | | | | | |
| 8000 | 94.5 | 94.6 | 94.4 | 94.4 | 94.5 | 94.3 | 94.7 | 94.2 | 96.4 | 96.0 | 93.0 | 91.8 | 90.1 | 137.4 | | | | | | |
| 10000 | 91.7 | 93.0 | 93.1 | 94.1 | 94.9 | 94.0 | 93.9 | 93.9 | 95.1 | 94.5 | 91.5 | 91.1 | 89.8 | 136.9 | | | | | | |
| 12500 | 88.6 | 89.8 | 90.7 | 92.2 | 93.2 | 93.3 | 94.0 | 92.1 | 92.7 | 91.9 | 89.3 | 89.1 | 88.8 | 135.7 | | | | | | |
| 16000 | 86.4 | 87.7 | 87.9 | 90.1 | 91.6 | 91.5 | 93.1 | 90.4 | 92.7 | 89.7 | 87.3 | 87.5 | 87.0 | 134.9 | | | | | | |
| 20000 | 82.7 | 84.2 | 85.4 | 86.5 | 90.0 | 88.8 | 91.3 | 88.3 | 89.7 | 86.2 | 83.6 | 84.2 | 83.9 | 133.4 | | | | | | |
| 25000 | 79.3 | 81.1 | 81.0 | 82.8 | 85.5 | 85.3 | 85.8 | 85.2 | 86.5 | 82.2 | 81.3 | 78.8 | 80.4 | 130.9 | | | | | | |
| 31500 | 76.4 | 78.8 | 79.0 | 81.4 | 83.4 | 82.9 | 84.3 | 82.7 | 83.5 | 78.6 | 76.8 | 78.2 | 77.4 | 130.7 | | | | | | |
| 40000 | 70.9 | 74.2 | 75.7 | 77.4 | 78.2 | 78.0 | 79.7 | 77.4 | 78.2 | 74.6 | 72.1 | 72.0 | 71.5 | 129.2 | | | | | | |
| 50000 | 63.0 | 67.3 | 69.3 | 71.3 | 70.6 | 71.5 | 72.0 | 70.5 | 71.6 | 67.4 | 65.2 | 63.6 | 62.7 | 126.5 | | | | | | |
| 63000 | 56.5 | 59.9 | 63.4 | 64.0 | 62.7 | 63.9 | 63.5 | 64.4 | 60.8 | 58.1 | 54.0 | 54.4 | 52.3 | 125.3 | | | | | | |
| 80000 | 50.2 | 54.2 | 58.9 | 57.5 | 56.2 | 57.3 | 58.2 | 55.2 | 57.2 | 55.6 | 52.3 | 48.1 | 48.0 | 128.4 | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 102.9 | 103.7 | 103.9 | 104.2 | 105.9 | 105.7 | 106.6 | 107.2 | 109.9 | 113.6 | 117.8 | 118.9 | 117.0 | 117.0 | | | | | | |
| PN08 | 115.2 | 117.1 | 117.1 | 120.2 | 118.6 | 119.1 | 119.9 | 122.0 | 125.2 | 125.1 | 127.1 | 127.1 | 127.1 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **790** ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 25 HR. 21.4

| RDG. NO. | NO. EGA | FREQ. | | | | ANGLES FROM INLET IN DEGREES (AND RADIANMS) | | | | C. | PWL | | | |
|--------------------|---------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | | | | | |
| 53 | 78.4 | 82.4 | 84.2 | 85.5 | 84.8 | 86.2 | 89.1 | 89.7 | 91.7 | 96.7 | 103.2 | 105.4 | 106.9 | 151.2 |
| 63 | 80.2 | 85.0 | 83.8 | 85.8 | 88.2 | 89.0 | 89.4 | 90.3 | 94.0 | 99.6 | 105.3 | 108.7 | 109.3 | 153.6 |
| 80 | 82.5 | 84.8 | 86.6 | 86.6 | 88.2 | 89.0 | 90.4 | 91.8 | 95.6 | 102.1 | 108.3 | 110.5 | 110.0 | 155.5 |
| 100 | 83.1 | 84.6 | 86.1 | 86.4 | 88.5 | 89.5 | 91.0 | 92.7 | 96.1 | 103.4 | 109.7 | 111.6 | 110.9 | 156.6 |
| 125 | 84.2 | 86.5 | 87.2 | 88.5 | 89.6 | 91.0 | 92.9 | 94.0 | 98.0 | 104.6 | 110.5 | 112.7 | 110.7 | 157.4 |
| 160 | 86.7 | 87.7 | 89.0 | 90.0 | 91.4 | 92.7 | 93.9 | 96.0 | 99.8 | 105.3 | 111.3 | 112.5 | 110.5 | 157.7 |
| 200 | 89.0 | 90.3 | 91.3 | 91.4 | 92.5 | 94.1 | 95.2 | 96.6 | 99.8 | 105.2 | 110.6 | 111.3 | 109.8 | 157.0 |
| 250 | 88.1 | 90.4 | 92.7 | 91.7 | 93.1 | 94.9 | 95.8 | 97.7 | 103.4 | 105.5 | 110.2 | 110.4 | 108.7 | 156.6 |
| 315 | 88.7 | 91.5 | 91.8 | 93.7 | 95.5 | 95.7 | 97.6 | 97.6 | 101.3 | 104.9 | 109.3 | 109.0 | 107.3 | 155.8 |
| 400 | 89.0 | 91.3 | 92.6 | 92.6 | 94.2 | 95.1 | 97.0 | 98.4 | 103.8 | 104.4 | 106.1 | 105.3 | 102.8 | 153.8 |
| 500 | 90.7 | 92.7 | 93.2 | 92.7 | 94.3 | 96.3 | 98.0 | 101.0 | 103.0 | 103.3 | 103.8 | 102.4 | 98.7 | 152.4 |
| 630 | 95.2 | 96.5 | 96.5 | 96.5 | 102.1 | 97.7 | 97.6 | 98.3 | 101.7 | 105.3 | 106.0 | 104.2 | 99.2 | 154.7 |
| 800 | 93.2 | 94.0 | 94.3 | 93.8 | 94.2 | 94.8 | 96.2 | 97.6 | 99.8 | 101.4 | 99.6 | 97.0 | 93.5 | 153.8 |
| 1000 | 96.6 | 95.9 | 94.7 | 95.2 | 95.3 | 95.9 | 96.1 | 97.2 | 99.5 | 99.3 | 98.0 | 95.7 | 93.2 | 153.6 |
| 1250 | 97.8 | 96.9 | 96.6 | 95.9 | 95.5 | 97.1 | 98.2 | 97.2 | 99.4 | 98.8 | 96.9 | 94.8 | 93.1 | 151.1 |
| 1600 | 96.7 | 96.8 | 96.6 | 96.6 | 96.7 | 96.6 | 96.6 | 96.4 | 98.6 | 98.3 | 95.2 | 94.1 | 92.3 | 150.2 |
| 2000 | 94.1 | 95.5 | 95.6 | 96.6 | 97.4 | 96.5 | 96.4 | 96.3 | 97.6 | 97.0 | 93.9 | 93.5 | 92.2 | 149.0 |
| 2500 | 91.4 | 92.6 | 93.5 | 95.0 | 96.0 | 94.8 | 94.9 | 95.5 | 94.7 | 92.1 | 91.9 | 91.6 | 91.6 | 148.2 |
| 3150 | 89.2 | 91.1 | 91.3 | 93.4 | 95.0 | 94.8 | 96.5 | 93.7 | 96.0 | 93.0 | 90.6 | 90.9 | 90.3 | 146.7 |
| 4000 | 86.7 | 88.3 | 89.4 | 90.6 | 94.1 | 92.9 | 95.3 | 92.4 | 93.7 | 90.3 | 87.6 | 88.3 | 87.9 | 144.2 |
| 5000 | 84.6 | 86.4 | 86.4 | 88.2 | 90.9 | 90.6 | 91.1 | 90.5 | 91.9 | 87.6 | 86.6 | 84.2 | 85.7 | 144.2 |
| 6300 | 83.3 | 85.7 | 85.9 | 88.3 | 90.3 | 89.8 | 91.2 | 89.6 | 90.4 | 85.5 | 83.7 | 85.1 | 84.3 | 142.5 |
| 8000 | 80.1 | 83.5 | 84.9 | 86.7 | 87.5 | 87.3 | 89.0 | 86.7 | 87.5 | 83.9 | 81.4 | 81.3 | 80.8 | 139.8 |
| 10000 | 75.4 | 79.6 | 81.6 | 83.6 | 82.9 | 83.8 | 84.3 | 82.8 | 83.9 | 79.7 | 77.5 | 75.7 | 75.0 | 138.7 |
| 12500 | 73.4 | 76.7 | 80.2 | 80.8 | 79.5 | 80.7 | 80.3 | 80.1 | 81.2 | 77.6 | 74.9 | 70.8 | 71.2 | 141.8 |
| 16000 | 73.3 | 77.3 | 82.1 | 80.6 | 79.3 | 80.4 | 81.3 | 78.3 | 80.3 | 78.7 | 75.5 | 71.2 | 71.2 | 167.2 |
| OVERALL CALCULATED | 105.1 | 105.8 | 106.0 | 106.4 | 108.1 | 107.8 | 108.7 | 109.2 | 111.9 | 115.4 | 119.6 | 120.6 | 119.3 | |
| PND9 | 115.9 | 117.1 | 117.5 | 118.4 | 119.8 | 121.0 | 120.0 | 122.2 | 122.6 | 124.4 | 124.4 | 124.4 | 122.9 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **790** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

| NO EGA
(731.52 M) | SIDELINE 240G. FT.
(731.52 M) | MFA
(1. RPM) | MFK
(1. RPM) | MFD
(0. RAD/SEC) | MFE
(0. RAD/SEC) | AIRFLOW RATIO
(785. RAD/SEC) | WF/WM 4.63 | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------------------|-----------------|-----------------|---------------------|---------------------|---------------------------------|------------|---|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|-------|-------|-------|
| | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | | | | |
| 50 | 50.2 | 55.8 | 58.6 | 58.7 | 60.4 | 61.9 | 64.7 | 64.9 | 66.1 | 68.1 | 70.1 | 72.1 | 74.1 | 76.1 | 78.1 | 80.1 | 82.1 | 84.1 | 86.1 | 88.1 | 90.1 | 92.1 | 94.1 | 96.1 | 98.1 | 100.1 |
| 63 | 52.0 | 58.4 | 58.2 | 61.0 | 63.7 | 64.7 | 65.5 | 65.5 | 66.5 | 68.5 | 70.5 | 72.5 | 74.5 | 76.5 | 78.5 | 80.5 | 82.5 | 84.5 | 86.5 | 88.5 | 90.5 | 92.5 | 94.5 | 96.5 | 98.5 | 100.5 |
| 90 | 54.2 | 58.1 | 59.9 | 61.7 | 63.7 | 64.7 | 65.5 | 65.5 | 66.5 | 68.5 | 70.5 | 72.5 | 74.5 | 76.5 | 78.5 | 80.5 | 82.5 | 84.5 | 86.5 | 88.5 | 90.5 | 92.5 | 94.5 | 96.5 | 98.5 | 100.5 |
| 100 | 54.7 | 57.8 | 60.4 | 61.5 | 64.0 | 65.5 | 66.5 | 66.5 | 67.7 | 70.4 | 72.2 | 74.2 | 76.2 | 78.2 | 80.2 | 82.2 | 84.2 | 86.2 | 88.2 | 90.2 | 92.2 | 94.2 | 96.2 | 98.2 | 100.2 | |
| 125 | 55.6 | 59.5 | 61.4 | 63.5 | 65.0 | 66.5 | 68.1 | 69.2 | 70.9 | 73.8 | 75.8 | 77.8 | 79.8 | 81.8 | 83.8 | 85.8 | 87.8 | 89.8 | 91.8 | 93.8 | 95.8 | 97.8 | 99.8 | 101.8 | | |
| 160 | 57.2 | 60.7 | 63.1 | 64.9 | 66.6 | 68.1 | 69.3 | 70.3 | 71.3 | 73.7 | 75.7 | 77.7 | 79.7 | 81.7 | 83.7 | 85.7 | 87.7 | 89.7 | 91.7 | 93.7 | 95.7 | 97.7 | 99.7 | 101.7 | | |
| 200 | 60.1 | 63.1 | 65.2 | 66.1 | 67.6 | 69.3 | 70.3 | 70.8 | 72.2 | 74.2 | 76.2 | 78.2 | 80.2 | 82.2 | 84.2 | 86.2 | 88.2 | 90.2 | 92.2 | 94.2 | 96.2 | 98.2 | 100.2 | | | |
| 250 | 58.9 | 62.9 | 66.4 | 66.2 | 68.0 | 70.0 | 70.4 | 70.8 | 72.2 | 74.2 | 76.2 | 78.2 | 80.2 | 82.2 | 84.2 | 86.2 | 88.2 | 90.2 | 92.2 | 94.2 | 96.2 | 98.2 | 100.2 | | | |
| 315 | 59.2 | 63.8 | 65.0 | 66.1 | 68.4 | 70.4 | 70.4 | 70.4 | 71.9 | 74.8 | 77.1 | 79.8 | 82.5 | 85.2 | 87.9 | 90.6 | 93.3 | 96.0 | 98.7 | 101.4 | | | | | | |
| 400 | 59.1 | 63.2 | 65.7 | 66.6 | 68.7 | 69.7 | 71.4 | 72.4 | 74.0 | 76.3 | 78.7 | 81.1 | 83.5 | 85.9 | 88.3 | 90.7 | 93.1 | 95.5 | 97.9 | 100.3 | | | | | | |
| 500 | 60.1 | 64.1 | 66.0 | 66.4 | 68.5 | 69.0 | 70.5 | 71.6 | 73.7 | 74.7 | 76.2 | 78.2 | 80.2 | 82.2 | 84.2 | 86.2 | 88.2 | 90.2 | 92.2 | 94.2 | | | | | | |
| 630 | 64.0 | 67.3 | 68.7 | 69.7 | 75.3 | 71.6 | 71.3 | 71.4 | 74.0 | 76.2 | 78.2 | 80.2 | 82.2 | 84.2 | 86.2 | 88.2 | 90.2 | 92.2 | 94.2 | 96.2 | | | | | | |
| 800 | 61.1 | 64.1 | 65.9 | 66.4 | 67.3 | 68.1 | 69.3 | 70.2 | 71.4 | 71.5 | 67.5 | 61.5 | 52.1 | | | | | | | | | | | | | |
| 1000 | 63.4 | 65.1 | 65.5 | 67.1 | 67.7 | 68.5 | 68.5 | 69.1 | 70.3 | 68.5 | 64.8 | 58.7 | 49.7 | | | | | | | | | | | | | |
| 1250 | 63.2 | 64.9 | 66.5 | 66.8 | 67.0 | 68.9 | 69.8 | 68.1 | 69.2 | 66.8 | 62.4 | 56.1 | 47.0 | | | | | | | | | | | | | |
| 1600 | 60.2 | 63.3 | 65.0 | 66.3 | 67.0 | 67.1 | 67.3 | 66.0 | 67.0 | 64.7 | 60.6 | 56.7 | 52.8 | | | | | | | | | | | | | |
| 2000 | 55.5 | 60.0 | 62.3 | 64.7 | 66.2 | 65.6 | 65.2 | 64.4 | 64.3 | 61.5 | 55.1 | 49.3 | 38.0 | | | | | | | | | | | | | |
| 2500 | 49.2 | 54.4 | 57.8 | 60.8 | 62.7 | 63.1 | 63.5 | 60.7 | 59.8 | 56.5 | 50.0 | 43.4 | 31.0 | | | | | | | | | | | | | |
| 3150 | 42.2 | 48.3 | 51.6 | 55.6 | 58.2 | 58.4 | 59.7 | 55.9 | 56.3 | 50.3 | 43.1 | 35.3 | 19.3 | | | | | | | | | | | | | |
| 4000 | 31.1 | 38.9 | 43.9 | 47.4 | 52.2 | 51.4 | 53.4 | 49.2 | 48.1 | 40.8 | 32.0 | 22.3 | 1.4 | | | | | | | | | | | | | |
| 5000 | 24.3 | 33.1 | 37.3 | 41.8 | 46.0 | 46.2 | 46.2 | 44.2 | 42.9 | 34.2 | 26.3 | 12.0 | | | | | | | | | | | | | | |
| 6300 | 9.3 | 20.9 | 26.8 | 32.8 | 36.7 | 36.7 | 37.6 | 34.0 | 31.3 | 20.7 | 9.7 | | | | | | | | | | | | | | | |
| 8000 | 1.1 | 10.4 | 17.0 | 20.4 | 21.0 | 21.0 | 21.9 | 16.9 | 12.9 | 1.5 | | | | | | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.0 | 75.2 | 77.1 | 78.0 | 80.6 | 80.7 | 81.4 | 82.1 | 84.3 | 87.5 | 90.5 | 89.3 | 84.4 | | | | | | | | | | | | | |
| PND | 78.7 | 82.3 | 84.4 | 86.0 | 88.6 | 88.1 | 88.6 | 88.1 | 89.7 | 91.2 | 92.3 | 89.6 | 83.4 | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 790 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| NO. FSA | RUG. NO. | 40. FT. RADIAL (12. M) | VEHICLE | CONFIS | LOC | DATE | RUN | TAPE | EAR | TAMB | TWET | HACT | FREQ. SHIFT | JET | DIAMETER RATIO | DF/DM | 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. | 59. 70. PERCENT REL. HUM. DAY - JEMOTS | PROC. DATE - MONTH 3 DAY 26 HR. 10.0 | |
|--------------------|----------|------------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|----------------|-------|--|--|--------------------------------------|--|
| 63 | 80 | 77.6 | 36.9 | 84.2 | 85.7 | 87.3 | 87.4 | 87.5 | 87.0 | 88.2 | 90.2 | 94.9 | 94.1 | 97.6 | 131.9 | | | | | |
| 100 | 125 | 76.6 | 31.4 | 83.1 | 85.2 | 86.5 | 87.6 | 88.2 | 87.9 | 87.1 | 86.4 | 95.6 | 97.3 | 98.0 | 132.5 | | | | | |
| 160 | 200 | 76.9 | 79.9 | 82.9 | 82.7 | 83.5 | 83.4 | 84.3 | 84.7 | 86.7 | 92.2 | 96.4 | 98.1 | 100.7 | 133.3 | | | | | |
| 250 | 315 | 79.3 | 30.0 | 81.3 | 83.1 | 83.7 | 85.0 | 85.9 | 87.1 | 89.2 | 94.4 | 98.8 | 103.3 | 105.3 | 137.1 | | | | | |
| 400 | 500 | 78.1 | 81.5 | 83.1 | 82.9 | 84.2 | 85.8 | 86.5 | 89.1 | 91.1 | 96.4 | 102.9 | 105.3 | 106.6 | 139.3 | | | | | |
| 630 | 800 | 79.2 | 85.2 | 82.4 | 84.7 | 87.6 | 88.7 | 89.1 | 90.0 | 93.4 | 98.8 | 105.0 | 108.4 | 109.4 | 141.9 | | | | | |
| 1000 | 1250 | 82.2 | 83.7 | 85.2 | 85.3 | 87.1 | 89.3 | 91.0 | 95.0 | 101.3 | 108.0 | 109.7 | 110.0 | 110.3 | 143.5 | | | | | |
| 1600 | 2000 | 82.0 | 83.8 | 85.0 | 85.3 | 86.9 | 89.0 | 90.7 | 91.8 | 95.8 | 103.1 | 109.6 | 111.5 | 110.3 | 144.8 | | | | | |
| 2500 | 3150 | 83.4 | 85.1 | 86.1 | 87.2 | 88.5 | 90.1 | 91.8 | 93.4 | 97.6 | 103.7 | 110.7 | 112.1 | 111.4 | 145.8 | | | | | |
| 4000 | 5000 | 85.1 | 86.4 | 87.2 | 88.4 | 90.0 | 91.7 | 92.8 | 94.7 | 98.7 | 104.0 | 111.2 | 112.6 | 111.4 | 146.2 | | | | | |
| 6300 | 8000 | 88.5 | 89.7 | 90.5 | 90.8 | 91.6 | 92.7 | 94.1 | 95.0 | 98.7 | 103.8 | 110.0 | 111.4 | 110.7 | 145.4 | | | | | |
| 10000 | 12500 | 86.5 | 89.5 | 90.6 | 90.5 | 91.7 | 93.3 | 94.7 | 96.6 | 99.6 | 103.4 | 108.9 | 111.0 | 109.6 | 144.7 | | | | | |
| 16000 | 20000 | 86.9 | 89.4 | 90.2 | 91.8 | 93.4 | 93.8 | 95.7 | 95.9 | 99.2 | 103.1 | 104.5 | 105.9 | 104.5 | 141.4 | | | | | |
| 25000 | 31500 | 87.4 | 88.7 | 89.7 | 90.0 | 91.9 | 92.7 | 94.9 | 96.5 | 99.2 | 103.1 | 104.5 | 105.9 | 104.5 | 140.2 | | | | | |
| 40000 | 50000 | 88.5 | 89.1 | 89.8 | 90.6 | 91.5 | 92.8 | 95.0 | 96.6 | 99.8 | 101.9 | 102.6 | 103.5 | 102.6 | 139.4 | | | | | |
| 63000 | 80000 | 91.5 | 91.3 | 92.3 | 92.4 | 92.5 | 94.2 | 96.3 | 98.6 | 100.2 | 98.4 | 99.3 | 97.6 | 97.6 | 138.3 | | | | | |
| 100000 | 125000 | 91.0 | 91.3 | 92.3 | 91.9 | 91.7 | 92.6 | 93.7 | 96.4 | 98.0 | 98.8 | 97.5 | 97.9 | 97.5 | 137.3 | | | | | |
| 160000 | 200000 | 89.9 | 90.2 | 91.2 | 92.3 | 92.6 | 93.0 | 94.1 | 95.8 | 98.0 | 98.8 | 97.5 | 97.0 | 96.5 | 136.8 | | | | | |
| 250000 | 315000 | 89.2 | 89.3 | 89.8 | 90.6 | 92.7 | 94.0 | 94.5 | 94.9 | 96.9 | 97.0 | 95.0 | 96.1 | 95.8 | 136.2 | | | | | |
| 400000 | 500000 | 88.5 | 88.6 | 89.2 | 89.9 | 91.5 | 93.1 | 94.5 | 95.9 | 96.9 | 97.0 | 95.0 | 96.1 | 95.8 | 134.9 | | | | | |
| 630000 | 800000 | 86.4 | 88.0 | 88.1 | 89.1 | 91.4 | 91.5 | 93.2 | 94.1 | 96.1 | 95.8 | 93.5 | 95.6 | 95.5 | 134.3 | | | | | |
| 1000000 | 1250000 | 85.8 | 86.2 | 87.7 | 89.5 | 90.1 | 92.5 | 92.1 | 93.5 | 93.7 | 92.1 | 94.1 | 94.6 | 94.6 | 132.5 | | | | | |
| 1600000 | 2000000 | 83.6 | 85.8 | 86.2 | 87.7 | 89.5 | 90.1 | 92.5 | 92.1 | 93.5 | 93.7 | 92.1 | 94.1 | 94.6 | 132.5 | | | | | |
| 2500000 | 3150000 | 81.9 | 83.7 | 84.2 | 86.6 | 88.4 | 88.7 | 91.4 | 90.4 | 92.7 | 91.9 | 90.5 | 92.3 | 92.5 | 130.1 | | | | | |
| 4000000 | 5000000 | 78.7 | 81.0 | 81.6 | 83.3 | 86.5 | 86.1 | 89.0 | 87.3 | 90.2 | 88.2 | 86.1 | 89.5 | 89.9 | 129.4 | | | | | |
| 6300000 | 8000000 | 75.8 | 78.4 | 78.5 | 80.1 | 82.5 | 82.5 | 84.0 | 84.7 | 87.0 | 84.0 | 84.0 | 83.6 | 86.1 | 128.1 | | | | | |
| 10000000 | 12500000 | 74.1 | 77.0 | 77.7 | 79.4 | 81.1 | 80.6 | 83.3 | 81.7 | 83.5 | 80.6 | 79.3 | 82.7 | 82.9 | 127.9 | | | | | |
| 16000000 | 20000000 | 69.1 | 73.0 | 75.2 | 76.7 | 77.7 | 77.5 | 79.2 | 77.6 | 79.2 | 76.4 | 74.1 | 77.2 | 77.8 | 126.4 | | | | | |
| 25000000 | 31500000 | 63.0 | 67.5 | 70.3 | 72.1 | 71.9 | 73.5 | 74.0 | 72.5 | 73.1 | 69.2 | 67.7 | 68.4 | 69.2 | 125.9 | | | | | |
| 40000000 | 50000000 | 55.0 | 60.2 | 64.4 | 65.3 | 65.0 | 66.7 | 67.2 | 67.0 | 67.2 | 63.3 | 60.6 | 59.2 | 62.2 | 124.8 | | | | | |
| 63000000 | 80000000 | 49.5 | 53.7 | 59.2 | 57.8 | 56.9 | 59.0 | 60.5 | 58.7 | 59.7 | 58.3 | 54.6 | 52.6 | 58.0 | 123.0 | | | | | |
| OVERALL MEASURED | 100.1 | 101.3 | 101.9 | 102.5 | 103.9 | 104.9 | 106.3 | 107.6 | 110.6 | 114.1 | 118.9 | 120.7 | 120.1 | 120.1 | 155.1 | | | | | |
| OVERALL CALCULATED | 113.7 | 114.6 | 115.2 | 115.6 | 116.4 | 117.1 | 117.7 | 118.3 | 123.7 | 125.9 | 128.0 | 129.8 | 129.0 | 129.0 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 791 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

| RDG. NO. | W. O. G. | VEHICLE | CONFIG | LOC | DATE | TAPE | BAR | TAMB | TWET | HACT | FREQ. | JET | DIAMETER RATIO | DF/DW | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----------|---------|--------|------|------|------|------|------|------|------|-------|------|----------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 79.9 | 83.7 | 84.9 | 84.7 | 85.1 | 85.4 | 85.6 | 85.9 | 86.2 | 86.5 | 86.8 | 87.1 | 87.4 | 87.7 | 88.0 | 88.3 | 88.6 | 88.9 | 89.2 | 89.5 | 89.8 | 90.1 | 90.4 | 90.7 | 91.0 | 91.3 | 91.6 | 91.9 | 92.2 | 92.5 | 92.8 | 93.1 | 93.4 | 93.7 | 94.0 | 94.3 | 94.6 | 94.9 | 95.2 | 95.5 | 95.8 | 96.1 | 96.4 | 96.7 | 97.0 | 97.3 | 97.6 | 97.9 | 98.2 | 98.5 | 98.8 | 99.1 | 99.4 | 99.7 | 100.0 | 100.3 | 100.6 | 100.9 | 101.2 | 101.5 | 101.8 | 102.1 | 102.4 | 102.7 | 103.0 | 103.3 | 103.6 | 103.9 | 104.2 | 104.5 | 104.8 | 105.1 | 105.4 | 105.7 | 106.0 | 106.3 | 106.6 | 106.9 | 107.2 | 107.5 | 107.8 | 108.1 | 108.4 | 108.7 | 109.0 | 109.3 | 109.6 | 109.9 | 110.2 | 110.5 | 110.8 | 111.1 | 111.4 | 111.7 | 112.0 | 112.3 | 112.6 | 112.9 | 113.2 | 113.5 | 113.8 | 114.1 | 114.4 | 114.7 | 115.0 | 115.3 | 115.6 | 115.9 | 116.2 | 116.5 | 116.8 | 117.1 | 117.4 | 117.7 | 118.0 | 118.3 | 118.6 | 118.9 | 119.2 | 119.5 | 119.8 | 120.1 | 120.4 | 120.7 | 121.0 | 121.3 | 121.6 | 121.9 | 122.2 | 122.5 | 122.8 | 123.1 | 123.4 | 123.7 | 124.0 | 124.3 | 124.6 | 124.9 | 125.2 | 125.5 | 125.8 | 126.1 | 126.4 | 126.7 | 127.0 | 127.3 | 127.6 | 127.9 | 128.2 | 128.5 | 128.8 | 129.1 | 129.4 | 129.7 | 130.0 | 130.3 | 130.6 | 130.9 | 131.2 | 131.5 | 131.8 | 132.1 | 132.4 | 132.7 | 133.0 | 133.3 | 133.6 | 133.9 | 134.2 | 134.5 | 134.8 | 135.1 | 135.4 | 135.7 | 136.0 | 136.3 | 136.6 | 136.9 | 137.2 | 137.5 | 137.8 | 138.1 | 138.4 | 138.7 | 139.0 | 139.3 | 139.6 | 139.9 | 140.2 | 140.5 | 140.8 | 141.1 | 141.4 | 141.7 | 142.0 | 142.3 | 142.6 | 142.9 | 143.2 | 143.5 | 143.8 | 144.1 | 144.4 | 144.7 | 145.0 | 145.3 | 145.6 | 145.9 | 146.2 | 146.5 | 146.8 | 147.1 | 147.4 | 147.7 | 148.0 | 148.3 | 148.6 | 148.9 | 149.2 | 149.5 | 149.8 | 150.1 | 150.4 | 150.7 | 151.0 | 151.3 | 151.6 | 151.9 | 152.2 | 152.5 | 152.8 | 153.1 | 153.4 | 153.7 | 154.0 | 154.3 | 154.6 | 154.9 | 155.2 | 155.5 | 155.8 | 156.1 | 156.4 | 156.7 | 157.0 | 157.3 | 157.6 | 157.9 | 158.2 | 158.5 | 158.8 | 159.1 | 159.4 | 159.7 | 160.0 | 160.3 | 160.6 | 160.9 | 161.2 | 161.5 | 161.8 | 162.1 | 162.4 | 162.7 | 163.0 | 163.3 | 163.6 | 163.9 | 164.2 | 164.5 | 164.8 | 165.1 | 165.4 | 165.7 | 166.0 | 166.3 | 166.6 | 166.9 | 167.2 | 167.5 | 167.8 | 168.1 | 168.4 | 168.7 | 169.0 | 169.3 | 169.6 | 169.9 | 170.2 | 170.5 | 170.8 | 171.1 | 171.4 | 171.7 | 172.0 | 172.3 | 172.6 | 172.9 | 173.2 | 173.5 | 173.8 | 174.1 | 174.4 | 174.7 | 175.0 | 175.3 | 175.6 | 175.9 | 176.2 | 176.5 | 176.8 | 177.1 | 177.4 | 177.7 | 178.0 | 178.3 | 178.6 | 178.9 | 179.2 | 179.5 | 179.8 | 180.1 | 180.4 | 180.7 | 181.0 | 181.3 | 181.6 | 181.9 | 182.2 | 182.5 | 182.8 | 183.1 | 183.4 | 183.7 | 184.0 | 184.3 | 184.6 | 184.9 | 185.2 | 185.5 | 185.8 | 186.1 | 186.4 | 186.7 | 187.0 | 187.3 | 187.6 | 187.9 | 188.2 | 188.5 | 188.8 | 189.1 | 189.4 | 189.7 | 190.0 | 190.3 | 190.6 | 190.9 | 191.2 | 191.5 | 191.8 | 192.1 | 192.4 | 192.7 | 193.0 | 193.3 | 193.6 | 193.9 | 194.2 | 194.5 | 194.8 | 195.1 | 195.4 | 195.7 | 196.0 | 196.3 | 196.6 | 196.9 | 197.2 | 197.5 | 197.8 | 198.1 | 198.4 | 198.7 | 199.0 | 199.3 | 199.6 | 199.9 | 200.2 | 200.5 | 200.8 | 201.1 | 201.4 | 201.7 | 202.0 | 202.3 | 202.6 | 202.9 | 203.2 | 203.5 | 203.8 | 204.1 | 204.4 | 204.7 | 205.0 | 205.3 | 205.6 | 205.9 | 206.2 | 206.5 | 206.8 | 207.1 | 207.4 | 207.7 | 208.0 | 208.3 | 208.6 | 208.9 | 209.2 | 209.5 | 209.8 | 210.1 | 210.4 | 210.7 | 211.0 | 211.3 | 211.6 | 211.9 | 212.2 | 212.5 | 212.8 | 213.1 | 213.4 | 213.7 | 214.0 | 214.3 | 214.6 | 214.9 | 215.2 | 215.5 | 215.8 | 216.1 | 216.4 | 216.7 | 217.0 | 217.3 | 217.6 | 217.9 | 218.2 | 218.5 | 218.8 | 219.1 | 219.4 | 219.7 | 220.0 | 220.3 | 220.6 | 220.9 | 221.2 | 221.5 | 221.8 | 222.1 | 222.4 | 222.7 | 223.0 | 223.3 | 223.6 | 223.9 | 224.2 | 224.5 | 224.8 | 225.1 | 225.4 | 225.7 | 226.0 | 226.3 | 226.6 | 226.9 | 227.2 | 227.5 | 227.8 | 228.1 | 228.4 | 228.7 | 229.0 | 229.3 | 229.6 | 229.9 | 230.2 | 230.5 | 230.8 | 231.1 | 231.4 | 231.7 | 232.0 | 232.3 | 232.6 | 232.9 | 233.2 | 233.5 | 233.8 | 234.1 | 234.4 | 234.7 | 235.0 | 235.3 | 235.6 | 235.9 | 236.2 | 236.5 | 236.8 | 237.1 | 237.4 | 237.7 | 238.0 | 238.3 | 238.6 | 238.9 | 239.2 | 239.5 | 239.8 | 240.1 | 240.4 | 240.7 | 241.0 | 241.3 | 241.6 | 241.9 | 242.2 | 242.5 | 242.8 | 243.1 | 243.4 | 243.7 | 244.0 | 244.3 | 244.6 | 244.9 | 245.2 | 245.5 | 245.8 | 246.1 | 246.4 | 246.7 | 247.0 | 247.3 | 247.6 | 247.9 | 248.2 | 248.5 | 248.8 | 249.1 | 249.4 | 249.7 | 250.0 | 250.3 | 250.6 | 250.9 | 251.2 | 251.5 | 251.8 | 252.1 | 252.4 | 252.7 | 253.0 | 253.3 | 253.6 | 253.9 | 254.2 | 254.5 | 254.8 | 255.1 | 255.4 | 255.7 | 256.0 | 256.3 | 256.6 | 256.9 | 257.2 | 257.5 | 257.8 | 258.1 | 258.4 | 258.7 | 259.0 | 259.3 | 259.6 | 259.9 | 260.2 | 260.5 | 260.8 | 261.1 | 261.4 | 261.7 | 262.0 | 262.3 | 262.6 | 262.9 | 263.2 | 263.5 | 263.8 | 264.1 | 264.4 | 264.7 | 265.0 | 265.3 | 265.6 | 265.9 | 266.2 | 266.5 | 266.8 | 267.1 | 267.4 | 267.7 | 268.0 | 268.3 | 268.6 | 268.9 | 269.2 | 269.5 | 269.8 | 270.1 | 270.4 | 270.7 | 271.0 | 271.3 | 271.6 | 271.9 | 272.2 | 272.5 | 272.8 | 273.1 | 273.4 | 273.7 | 274.0 | 274.3 | 274.6 | 274.9 | 275.2 | 275.5 | 275.8 | 276.1 | 276.4 | 276.7 | 277.0 | 277.3 | 277.6 | 277.9 | 278.2 | 278.5 | 278.8 | 279.1 | 279.4 | 279.7 | 280.0 | 280.3 | 280.6 | 280.9 | 281.2 | 281.5 | 281.8 | 282.1 | 282.4 | 282.7 | 283.0 | 283.3 | 283.6 | 283.9 | 284.2 | 284.5 | 284.8 | 285.1 | 285.4 | 285.7 | 286.0 | 286.3 | 286.6 | 286.9 | 287.2 | 287.5 | 287.8 | 288.1 | 288.4 | 288.7 | 289.0 | 289.3 | 289.6 | 289.9 | 290.2 | 290.5 | 290.8 | 291.1 | 291.4 | 291.7 | 292.0 | 292.3 | 292.6 | 292.9 | 293.2 | 293.5 | 293.8 | 294.1 | 294.4 | 294.7 | 295.0 | 295.3 | 295.6 | 295.9 | 296.2 | 296.5 | 296.8 | 297.1 | 297.4 | 297.7 | 298.0 | 298.3 | 298.6 | 298.9 | 299.2 | 299.5 | 299.8 | 300.1 | 300.4 | 300.7 | 301.0 | 301.3 | 301.6 | 301.9 | 302.2 | 302.5 | 302.8 | 303.1 | 303.4 | 303.7 | 304.0 | 304.3 | 304.6 | 304.9 | 305.2 | 305.5 | 305.8 | 306.1 | 306.4 | 306.7 | 307.0 | 307.3 | 307.6 | 307.9 | 308.2 | 308.5 | 308.8 | 309.1 | 309.4 | 309.7 | 310.0 | 310.3 | 310.6 | 310.9 | 311.2 | 311.5 | 311.8 | 312.1 | 312.4 | 312.7 | 313.0 | 313.3 | 313.6 | 313.9 | 314.2 | 314.5 | 314.8 | 315.1 | 315.4 | 315.7 | 316.0 | 316.3 | 316.6 | 316.9 | 317.2 | 317.5 | 317.8 | 318.1 | 318.4 | 318.7 | 319.0 | 319.3 | 319.6 | 319.9 | 320.2 | 320.5 | 320.8 | 321.1 | 321.4 | 321.7 | 322.0 | 322.3 | 322.6 | 322.9 | 323.2 | 323.5 | 323.8 | 324.1 | 324.4 | 324.7 | 325.0 | 325.3 | 325.6 | 325.9 | 326.2 | 326.5 | 326.8 | 327.1 | 327.4 | 327.7 | 328.0 | 328.3 | 328.6 | 328.9 | 329.2 | 329.5 | 329.8 | 330.1 | 330.4 | 330.7 | 331.0 | 331.3 | 331.6 | 331.9 | 332.2 | 332.5 | 332.8 | 333.1 | 333.4 | 333.7 | 334.0 | 334.3 | 334.6 | 334.9 | 335.2 | 335.5 | 335.8 | 336.1 | 336.4 | 336.7 | 337.0 | 337.3 | 337.6 | 337.9 | 338.2 | 338.5 | 338.8 | 339.1 | 339.4 | 339.7 | 340.0 | 340.3 | 340.6 | 340.9 | 341.2 | 341.5 | 341.8 | 342.1 | 342.4 | 342.7 | 343.0 | 343.3 | 343.6 | 343.9 | 344.2 | 344.5 | 344.8 | 345.1 | 345.4 | 345.7 | 346.0 | 346.3 | 346.6 | 346.9 | 347.2 | 347.5 | 347.8 | 348.1 | 348.4 | 348.7 | 349.0 | 349.3 | 349.6 | 349.9 | 350.2 | 350.5 | 350.8 | 351.1 | 351.4 | 351.7 | 352.0 | 352.3 | 352.6 | 352.9 | 353.2 | 353.5 | 353.8 | 354.1 | 354.4 | 354.7 | 355.0 | 355.3 | 355.6 | 355.9 | 356.2 | 356.5 | 356.8 | 357.1 | 357.4 | 357.7 | 358.0 | 358.3 | 358.6 | 358.9 | 359.2 | 359.5 | 359.8 | 360.1 | 360.4 | 360.7 | 361.0 | 361.3 | 361.6 | 361.9 | 362.2 | 362.5 | 362.8 | 363.1 | 363.4 | 363.7 | 364.0 | 364.3 | 364.6 | 364.9 | 365.2 | 365.5 | 365.8 | 366.1 | 366.4 | 366.7 | 367.0 | 367.3 | 367.6 | 367.9 | 368.2 | 368.5 | 368.8 | 369.1 | 369.4 | 369.7 | 370.0 | 370.3 | 370.6 | 370.9 | 371.2 | 371.5 | 371.8 | 372.1 | 372.4 | 372.7 | 373.0 | 373.3 | 373.6 | 373.9 | 374.2 | 374.5 | 374.8 | 375.1 | 375.4 | 375.7 | 376.0 | 376.3 | 376.6 | 376.9 | 377.2 | 377.5 | 377.8 | 378.1 | 378.4 | 378.7 | 379.0 | 379.3 | 379.6 | 379.9 | 380.2 | 380.5 | 380.8 | 381.1 | 381.4 | 381.7 | 382.0 | 382.3 | 382.6 | 382.9 | 383.2 | 383.5 | 383.8 | 384.1 | 384.4 | 384.7 | 385.0 | 385.3 | 385.6 | 385.9 | 386.2 | 386.5 | 386.8 | 387.1 | 387.4 | 387.7 | 388.0 | 388.3 | 388.6 | 388.9 | 389.2 | 389.5 | 389.8 | 390.1 | 390.4 | 390.7 | 391.0 | 391.3 | 391.6 | 391.9 | 392.2 | 392.5 | 392.8 | 393.1 | 393.4 | 393.7 | 394.0 | 394.3 | 394.6 | 394.9 | 395.2 | 395.5 | 395.8 | 396.1 | 396.4 | 396.7 | 397.0 | 397.3 | 397.6 | 397.9 | 398.2 | 398.5 | 398.8 | 399.1 | 399.4 | 399.7 | 400.0 | 400.3 | 400.6 | 400.9 | 401.2 | 401.5 | 401.8 | 402.1 | 402.4 | 402.7 | 403.0 | 403.3 | 403.6 | 403.9 | 404.2 | 404.5 | 404.8 | 405.1 | 405.4 | 405.7 | 406.0 | 406.3 | 406.6 | 406.9 | 407.2 | 407.5 | 407.8 | 408.1 | 408.4 | 408.7 | 409.0 | 409.3 | 409.6 | 409.9 | 410.2 | 410.5 | 410.8 | 411.1 | 411.4 | 411.7 | 412.0 |

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | C. (C.) | C. (C.) | C. (C.) | | | | |
|--------------------|---|------|------|------|------|------|---------|---------|---------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | | | | | | | |
| NO EGA | 50 | 51.7 | 57.1 | 59.4 | 59.9 | 61.7 | 63.4 | 65.9 | 67.4 | 71.6 | 76.5 | 76.7 | 74.8 |
| SIDELINE 2400. FT. | 63 | 52.7 | 60.4 | 59.7 | 61.7 | 65.0 | 66.2 | 67.0 | 69.7 | 73.9 | 78.6 | 79.7 | 77.2 |
| (731.52 M) | 80 | 55.7 | 58.8 | 62.4 | 62.2 | 64.5 | 65.7 | 66.7 | 67.9 | 71.2 | 76.4 | 81.5 | 80.9 |
| NFA (1. RPM) | 125 | 56.6 | 60.0 | 62.2 | 62.2 | 64.2 | 66.5 | 68.0 | 68.7 | 71.9 | 78.1 | 83.0 | 82.6 |
| (C. RAD/SEC) | 170 | 58.2 | 61.2 | 63.1 | 65.1 | 67.1 | 68.9 | 69.9 | 71.4 | 74.6 | 78.7 | 84.3 | 83.3 |
| NFK (1. RPM) | 200 | 61.3 | 64.3 | 66.2 | 67.3 | 68.6 | 69.8 | 71.1 | 71.6 | 74.5 | 78.4 | 82.9 | 81.9 |
| (O. RAD/SEC) | 250 | 59.2 | 64.2 | 66.2 | 67.0 | 68.5 | 70.3 | 71.5 | 73.0 | 75.2 | 77.8 | 81.5 | 81.1 |
| NFD (7500. RPM) | 315 | 59.2 | 63.0 | 64.8 | 66.4 | 68.4 | 70.2 | 71.9 | 75.3 | 77.9 | 79.5 | 79.0 | 73.3 |
| (785. RAD/SEC) | 400 | 59.3 | 62.5 | 64.7 | 65.9 | 68.2 | 69.2 | 71.2 | 72.4 | 74.2 | 76.8 | 76.4 | 75.0 |
| AIRFLOW RATIO | 500 | 59.9 | 62.4 | 64.5 | 66.1 | 67.5 | 69.0 | 71.0 | 72.1 | 74.5 | 75.2 | 74.0 | 72.0 |
| WF/WM 4.63 | 630 | 62.2 | 64.1 | 64.7 | 65.9 | 68.0 | 68.3 | 69.8 | 71.4 | 74.0 | 74.4 | 71.6 | 68.8 |
| VEHICLE CELL41 | 800 | 60.9 | 63.4 | 65.9 | 66.4 | 66.8 | 67.8 | 68.8 | 70.9 | 72.2 | 72.3 | 68.2 | 65.7 |
| CONFIG NC54 | 1000 | 58.7 | 61.4 | 64.0 | 66.1 | 67.0 | 67.5 | 68.5 | 69.6 | 70.8 | 70.0 | 66.3 | 63.0 |
| LOC C41 ANECH CH | 1250 | 56.7 | 59.4 | 61.7 | 63.6 | 66.3 | 67.9 | 68.5 | 68.1 | 69.7 | 67.8 | 63.4 | 60.4 |
| DATE 26-10-76 | 1600 | 54.2 | 57.3 | 59.8 | 61.8 | 64.0 | 65.9 | 67.0 | 66.8 | 67.5 | 65.7 | 60.7 | 57.1 |
| RUN CONT/CONSTA | 2000 | 50.1 | 55.0 | 57.3 | 59.7 | 62.7 | 63.1 | 64.5 | 64.7 | 65.3 | 62.5 | 57.1 | 53.8 |
| TAPE X07910 | 2500 | 44.2 | 50.4 | 53.3 | 56.3 | 59.0 | 59.9 | 62.0 | 60.7 | 63.5 | 58.2 | 52.7 | 48.4 |
| FAN TIP SPEED | 3150 | 37.7 | 44.3 | 47.8 | 52.1 | 55.0 | 55.7 | 58.0 | 55.9 | 56.3 | 52.5 | 46.3 | 40.6 |
| FT/SEC | 4000 | 27.1 | 35.6 | 39.9 | 44.1 | 48.7 | 48.7 | 51.2 | 48.2 | 48.6 | 42.8 | 34.5 | 27.5 |
| | 5000 | 20.8 | 30.3 | 34.8 | 39.1 | 43.0 | 43.4 | 44.5 | 43.7 | 43.4 | 36.0 | 29.0 | 16.8 |
| | 6300 | 7.0 | 19.1 | 25.6 | 30.8 | 34.4 | 34.5 | 36.6 | 33.0 | 31.3 | 22.7 | 12.2 | |
| | 8000 | | 9.9 | 16.2 | 19.9 | 20.5 | 21.4 | 17.2 | 13.9 | 3.3 | | | |
| | 10000 | | | | | 1.0 | 0.4 | | | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALC/LATED | | 70.6 | 73.9 | 75.8 | 77.1 | 79.9 | 80.3 | 81.5 | 82.6 | 85.0 | 88.0 | 91.7 | 91.1 |
| P:08 | | 75.8 | 79.2 | 81.4 | 83.2 | 85.7 | 86.9 | 88.2 | 88.5 | 90.4 | 91.9 | 93.5 | 86.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **791** ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 10.1
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 0. 0. 0. 0. 0. 0.
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0.
 FREQ. (0.70)(0.57)(1.05)(1.22)(1.40)(1.57)(1.75)(2.09)(2.27)(2.44)(2.62)(2.79)(G.) (C.) (O.) (O.) (O.)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PWL |
|----------|--------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| 100 | 78.9 | 88.4 | 86.2 | 87.5 | 83.8 | 83.9 | 89.3 | 88.7 | 89.9 | 91.5 | 96.2 | 95.1 | 98.9 | 133.5 | | | | | |
| 125 | 77.3 | 82.9 | 84.1 | 86.7 | 83.0 | 89.6 | 89.7 | 89.7 | 88.1 | 83.2 | 98.9 | 98.8 | 100.4 | 134.1 | | | | | |
| 160 | 77.5 | 80.7 | 84.7 | 84.0 | 85.0 | 85.9 | 85.3 | 86.2 | 87.9 | 93.5 | 98.2 | 99.9 | 102.4 | 134.9 | | | | | |
| 200 | 80.0 | 81.3 | 82.5 | 84.1 | 85.2 | 86.3 | 87.2 | 88.8 | 91.8 | 96.4 | 100.6 | 104.8 | 106.8 | 138.7 | | | | | |
| 250 | 79.3 | 83.6 | 85.1 | 84.6 | 85.7 | 87.3 | 89.7 | 90.6 | 93.1 | 98.7 | 104.9 | 107.0 | 108.6 | 141.1 | | | | | |
| 315 | 81.4 | 85.9 | 84.2 | 86.5 | 88.8 | 89.9 | 90.8 | 92.0 | 94.9 | 101.3 | 107.2 | 110.1 | 110.9 | 143.7 | | | | | |
| 400 | 83.4 | 85.2 | 87.2 | 87.0 | 88.6 | 89.5 | 91.1 | 93.0 | 97.2 | 103.8 | 110.0 | 111.9 | 112.0 | 145.6 | | | | | |
| 500 | 83.8 | 85.5 | 86.8 | 87.3 | 88.9 | 91.3 | 92.7 | 93.6 | 97.5 | 105.6 | 111.3 | 113.8 | 112.3 | 146.9 | | | | | |
| 630 | 84.6 | 86.6 | 87.1 | 88.9 | 90.3 | 91.9 | 93.8 | 94.9 | 98.9 | 106.2 | 112.4 | 114.6 | 112.6 | 147.7 | | | | | |
| 800 | 87.4 | 87.9 | 88.9 | 90.2 | 91.3 | 93.4 | 95.0 | 96.2 | 100.4 | 106.7 | 113.4 | 115.1 | 113.7 | 148.6 | | | | | |
| 1000 | 91.0 | 92.2 | 93.0 | 92.3 | 93.6 | 94.7 | 96.4 | 97.3 | 101.0 | 109.8 | 112.5 | 113.9 | 113.2 | 147.9 | | | | | |
| 1250 | 88.5 | 91.6 | 92.8 | 93.1 | 94.0 | 95.8 | 97.0 | 98.6 | 101.8 | 106.7 | 111.1 | 113.8 | 112.8 | 147.4 | | | | | |
| 1600 | 83.6 | 90.9 | 90.9 | 91.7 | 93.6 | 95.4 | 96.1 | 98.0 | 102.2 | 106.5 | 109.2 | 112.4 | 111.9 | 146.3 | | | | | |
| 2000 | 89.9 | 91.0 | 92.0 | 92.0 | 93.9 | 95.0 | 97.1 | 98.5 | 102.0 | 105.3 | 107.3 | 110.2 | 109.5 | 144.7 | | | | | |
| 2500 | 90.5 | 91.3 | 92.1 | 92.6 | 93.5 | 94.8 | 97.0 | 98.4 | 102.1 | 104.9 | 106.1 | 109.6 | 108.1 | 143.9 | | | | | |
| 3150 | 91.7 | 92.3 | 92.8 | 93.1 | 93.7 | 95.3 | 96.7 | 98.3 | 102.1 | 104.7 | 105.1 | 108.5 | 107.0 | 143.5 | | | | | |
| 4000 | 90.5 | 91.8 | 93.1 | 93.4 | 93.7 | 94.8 | 96.7 | 98.4 | 101.1 | 103.4 | 103.6 | 106.5 | 104.8 | 142.3 | | | | | |
| 5000 | 89.9 | 91.5 | 92.2 | 93.0 | 94.3 | 95.0 | 96.3 | 98.3 | 100.5 | 101.8 | 102.0 | 105.4 | 104.5 | 141.4 | | | | | |
| 6300 | 90.2 | 90.8 | 91.3 | 92.1 | 94.2 | 95.8 | 97.4 | 97.8 | 100.6 | 100.9 | 101.1 | 105.5 | 104.8 | 141.5 | | | | | |
| 8000 | 89.0 | 90.6 | 90.7 | 92.2 | 94.0 | 94.8 | 97.2 | 97.4 | 99.9 | 100.5 | 99.7 | 104.8 | 104.1 | 141.1 | | | | | |
| 10000 | 87.4 | 90.0 | 91.9 | 93.7 | 94.0 | 95.9 | 97.1 | 99.4 | 99.0 | 98.2 | 104.0 | 103.5 | 140.6 | | | | | | |
| 12500 | 85.1 | 87.3 | 88.2 | 89.2 | 91.7 | 92.8 | 94.7 | 95.1 | 97.5 | 97.2 | 96.1 | 102.4 | 102.3 | 139.3 | | | | | |
| 16000 | 83.7 | 85.7 | 86.4 | 88.6 | 90.8 | 90.9 | 93.8 | 93.4 | 95.4 | 95.4 | 95.0 | 101.0 | 101.2 | 138.8 | | | | | |
| 20000 | 80.9 | 83.0 | 84.4 | 85.7 | 88.7 | 88.3 | 92.2 | 90.6 | 93.4 | 90.9 | 90.3 | 95.5 | 97.6 | 136.3 | | | | | |
| 25000 | 78.5 | 81.1 | 81.2 | 83.3 | 85.3 | 85.5 | 86.3 | 87.7 | 90.8 | 87.2 | 88.5 | 90.0 | 93.8 | 134.2 | | | | | |
| 31500 | 76.6 | 79.7 | 80.9 | 82.4 | 83.9 | 83.6 | 85.0 | 84.6 | 87.0 | 83.6 | 84.0 | 90.1 | 91.1 | 136.1 | | | | | |
| 40000 | 72.3 | 75.9 | 78.6 | 79.6 | 80.2 | 80.2 | 81.7 | 80.1 | 82.1 | 79.8 | 79.1 | 85.2 | 87.2 | 133.3 | | | | | |
| 50000 | 67.5 | 70.7 | 74.5 | 75.0 | 74.8 | 75.9 | 75.9 | 74.2 | 76.8 | 73.3 | 73.2 | 77.6 | 81.9 | 132.0 | | | | | |
| 63000 | 62.0 | 65.9 | 69.8 | 69.2 | 68.9 | 70.1 | 70.7 | 70.0 | 71.3 | 67.3 | 67.0 | 71.2 | 76.6 | 132.9 | | | | | |
| 80000 | 58.2 | 61.6 | 67.4 | 64.4 | 63.6 | 64.2 | 65.6 | 61.9 | 67.9 | 63.0 | 61.7 | 65.3 | 74.0 | 137.8 | | | | | |

OVERALL MEASURED
 OVERALL CALCULATED
 PNDB 101.3 103.0 103.7 104.3 105.8 107.0 108.7 109.8 113.0 116.9 121.3 123.7 122.9
 114.5 115.3 116.5 117.7 118.0 119.4 120.9 122.3 125.6 128.8 131.0 134.0 133.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 792 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 25 HR. 21.4
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TMET | HACT | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-----|-----|-----|-----|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | |
| 53 | 81.1 | 85.4 | 87.8 | 86.7 | 88.3 | 90.7 | 91.8 | 92.7 | 93.8 | 96.8 | 103.1 | 109.0 | 112.0 | 112.8 | 154.4 | | | | |
| 63 | 83.2 | 87.8 | 86.7 | 88.3 | 90.7 | 91.8 | 92.7 | 93.8 | 96.8 | 103.1 | 109.0 | 112.0 | 112.8 | 157.0 | | | | | |
| 80 | 85.3 | 87.8 | 86.7 | 88.3 | 90.7 | 91.8 | 92.7 | 93.8 | 96.8 | 103.1 | 109.0 | 112.0 | 112.8 | 158.9 | | | | | |
| 100 | 85.6 | 87.4 | 88.6 | 89.2 | 90.8 | 92.1 | 93.7 | 95.6 | 96.8 | 100.7 | 108.1 | 114.3 | 116.4 | 160.2 | | | | | |
| 125 | 86.5 | 88.5 | 89.0 | 91.8 | 92.1 | 93.6 | 95.2 | 96.9 | 98.0 | 102.3 | 108.5 | 115.3 | 117.0 | 161.0 | | | | | |
| 160 | 89.2 | 89.7 | 90.8 | 92.0 | 93.6 | 95.6 | 96.6 | 98.2 | 99.1 | 102.8 | 108.7 | 114.4 | 115.8 | 161.9 | | | | | |
| 200 | 92.8 | 94.1 | 94.8 | 94.1 | 95.5 | 97.7 | 98.8 | 100.5 | 103.7 | 108.5 | 113.0 | 115.6 | 114.7 | 162.7 | | | | | |
| 250 | 90.6 | 93.4 | 94.7 | 95.0 | 93.6 | 95.4 | 97.3 | 97.9 | 99.8 | 104.0 | 108.4 | 111.1 | 114.2 | 159.6 | | | | | |
| 315 | 90.5 | 92.8 | 92.8 | 93.8 | 93.9 | 95.7 | 96.8 | 99.0 | 100.4 | 103.8 | 107.2 | 109.1 | 112.0 | 158.0 | | | | | |
| 400 | 91.8 | 92.8 | 93.8 | 94.0 | 94.5 | 95.3 | 96.7 | 98.8 | 100.2 | 104.0 | 106.8 | 108.0 | 110.9 | 157.2 | | | | | |
| 500 | 92.4 | 93.2 | 94.2 | 94.7 | 95.0 | 95.6 | 97.2 | 98.6 | 100.3 | 104.0 | 106.6 | 107.0 | 110.4 | 156.8 | | | | | |
| 630 | 93.7 | 94.2 | 94.2 | 95.0 | 95.3 | 95.7 | 96.8 | 98.7 | 100.3 | 103.1 | 105.4 | 105.6 | 108.5 | 155.6 | | | | | |
| 800 | 92.5 | 93.8 | 95.1 | 95.3 | 95.7 | 96.8 | 98.7 | 100.3 | 100.2 | 102.5 | 103.8 | 104.0 | 107.4 | 154.8 | | | | | |
| 1000 | 91.9 | 93.4 | 94.2 | 95.0 | 96.3 | 96.9 | 98.3 | 100.2 | 102.5 | 103.8 | 104.0 | 107.4 | 106.9 | 154.8 | | | | | |
| 1250 | 92.3 | 92.9 | 93.4 | 94.2 | 96.2 | 97.9 | 99.5 | 99.9 | 99.9 | 102.6 | 103.0 | 103.2 | 107.6 | 154.8 | | | | | |
| 1600 | 91.2 | 92.8 | 92.9 | 94.4 | 96.2 | 97.1 | 99.5 | 99.6 | 102.1 | 102.8 | 101.9 | 107.1 | 106.3 | 154.4 | | | | | |
| 2000 | 89.9 | 92.5 | 92.6 | 94.3 | 96.1 | 96.5 | 98.4 | 98.6 | 101.8 | 101.5 | 100.7 | 106.5 | 106.0 | 153.9 | | | | | |
| 2500 | 87.9 | 90.1 | 91.0 | 92.0 | 94.5 | 95.5 | 97.5 | 97.9 | 100.3 | 100.0 | 98.8 | 105.2 | 105.1 | 152.6 | | | | | |
| 3150 | 87.0 | 89.0 | 89.7 | 91.9 | 94.2 | 94.3 | 97.2 | 96.7 | 99.7 | 98.8 | 98.4 | 104.4 | 104.5 | 152.1 | | | | | |
| 4000 | 85.0 | 87.0 | 88.4 | 89.8 | 92.8 | 92.4 | 96.3 | 94.6 | 97.4 | 95.0 | 94.3 | 99.5 | 101.7 | 149.6 | | | | | |
| 5000 | 83.9 | 86.4 | 86.6 | 88.6 | 90.6 | 90.8 | 91.6 | 93.0 | 96.1 | 92.5 | 93.6 | 95.4 | 99.2 | 147.5 | | | | | |
| 6300 | 83.5 | 86.7 | 87.9 | 89.3 | 90.8 | 90.5 | 91.9 | 91.6 | 93.9 | 90.5 | 90.9 | 97.1 | 98.0 | 147.4 | | | | | |
| 8000 | 82.1 | 85.2 | 87.9 | 88.9 | 89.4 | 89.5 | 90.9 | 89.4 | 89.4 | 89.1 | 88.4 | 94.5 | 96.5 | 146.5 | | | | | |
| 10000 | 79.8 | 83.0 | 86.8 | 87.3 | 87.1 | 88.2 | 88.2 | 86.5 | 89.1 | 85.7 | 85.5 | 89.9 | 94.2 | 145.4 | | | | | |
| 12500 | 78.8 | 82.6 | 86.6 | 86.0 | 85.7 | 86.9 | 87.5 | 86.8 | 88.1 | 84.0 | 83.8 | 87.9 | 93.4 | 145.4 | | | | | |
| 16000 | 81.3 | 84.7 | 90.5 | 87.6 | 86.7 | 87.3 | 88.7 | 85.0 | 91.0 | 86.1 | 84.9 | 88.4 | 97.1 | 151.1 | | | | | |
| OVERALL CALCULATED | 103.4 | 105.0 | 105.9 | 106.5 | 107.9 | 109.0 | 110.8 | 111.8 | 115.0 | 118.8 | 123.0 | 125.5 | 126.7 | 171.1 | | | | | |
| PND8 | 113.7 | 115.8 | 116.6 | 117.8 | 119.6 | 120.4 | 122.4 | 122.7 | 125.7 | 126.7 | 128.5 | 132.2 | 132.1 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 792 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400 FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | 120. 130. 140. 150. 160. | | | | | | |
|---|-------|---|--|--|---|--------------------------|--|------|------|------|------|------|
| | | 42. 50. 60. 70. 80. 90. | (0.77)(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.20)(3.40)(3.60)(3.80) | (0.77)(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.20)(3.40)(3.60)(3.80) | | | (0.77)(0.87)(1.05)(1.22)(1.40)(1.57)(1.75)(1.92)(2.09)(2.27)(2.44)(2.62)(2.79)(3.00)(3.20)(3.40)(3.60)(3.80) | | | | | |
| 50 | 53.0 | 58.8 | 61.4 | 61.7 | 63.2 | 64.9 | 67.7 | 69.4 | 73.9 | 78.5 | 78.4 | 76.5 |
| 63 | 55.0 | 61.1 | 60.5 | 63.5 | 66.2 | 67.5 | 68.2 | 69.0 | 71.2 | 76.4 | 80.8 | 81.5 |
| 80 | 56.9 | 60.3 | 63.4 | 63.9 | 66.0 | 67.0 | 68.5 | 69.9 | 73.4 | 78.9 | 83.5 | 83.1 |
| 100 | 57.2 | 60.6 | 62.9 | 64.2 | 66.2 | 68.7 | 70.0 | 70.5 | 73.7 | 80.6 | 84.7 | 79.7 |
| 125 | 57.9 | 61.5 | 63.2 | 65.7 | 67.5 | 69.2 | 71.2 | 71.7 | 74.9 | 81.1 | 85.7 | 85.5 |
| 160 | 60.5 | 62.7 | 64.3 | 66.9 | 68.9 | 70.6 | 72.1 | 72.9 | 76.3 | 81.5 | 86.5 | 80.5 |
| 200 | 63.8 | 66.8 | 68.7 | 68.8 | 70.6 | 71.8 | 73.3 | 73.8 | 76.7 | 81.4 | 85.4 | 79.7 |
| 250 | 61.4 | 65.9 | 68.4 | 69.5 | 70.8 | 72.8 | 73.8 | 75.0 | 77.4 | 81.0 | 83.9 | 78.8 |
| 315 | 60.9 | 65.0 | 65.3 | 67.9 | 70.2 | 72.2 | 72.7 | 74.1 | 77.5 | 80.6 | 81.5 | 82.0 |
| 400 | 61.8 | 64.7 | 67.0 | 67.9 | 70.2 | 71.4 | 73.4 | 74.4 | 77.0 | 79.1 | 79.3 | 74.0 |
| 500 | 61.9 | 64.6 | 66.7 | 68.1 | 69.5 | 71.0 | 73.0 | 73.9 | 76.7 | 78.2 | 77.5 | 71.6 |
| 630 | 62.5 | 65.1 | 67.0 | 68.2 | 69.3 | 71.1 | 72.3 | 73.4 | 76.2 | 77.4 | 75.8 | 69.3 |
| 800 | 60.4 | 63.9 | 66.7 | 67.9 | 68.8 | 70.1 | 71.8 | 72.9 | 74.7 | 75.5 | 73.5 | 65.4 |
| 1000 | 58.7 | 62.6 | 65.0 | 66.8 | 68.7 | 69.5 | 70.7 | 72.1 | 73.3 | 73.0 | 70.8 | 62.9 |
| 1250 | 57.7 | 60.9 | 63.2 | 65.1 | 67.8 | 69.6 | 71.0 | 70.8 | 72.5 | 71.1 | 68.6 | 60.8 |
| 1600 | 54.7 | 59.3 | 61.3 | 64.0 | 66.5 | 67.6 | 69.8 | 69.3 | 70.5 | 69.2 | 65.5 | 56.5 |
| 2000 | 51.1 | 57.0 | 59.3 | 62.4 | 65.0 | 65.6 | 67.2 | 67.7 | 68.5 | 66.0 | 61.9 | 62.3 |
| 2500 | 45.7 | 51.9 | 55.3 | 57.8 | 61.2 | 62.6 | 64.2 | 63.7 | 64.5 | 61.7 | 56.7 | 44.5 |
| 3150 | 39.5 | 46.3 | 50.1 | 54.1 | 57.5 | 57.9 | 60.5 | 58.9 | 60.1 | 56.0 | 50.8 | 33.6 |
| 4000 | 29.3 | 37.6 | 42.8 | 46.6 | 50.9 | 50.9 | 54.4 | 51.4 | 51.9 | 45.5 | 38.7 | 15.2 |
| FAN TIP SPEED FT/SEC | 9.5 | 21.9 | 28.8 | 33.7 | 37.1 | 45.7 | 46.7 | 46.7 | 47.1 | 39.2 | 33.5 | 3.7 |
| 6300 | 2.9 | 13.4 | 19.2 | 22.3 | 23.2 | 23.8 | 19.6 | 34.8 | 25.7 | 16.9 | 7.1 | |
| 8000 | | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | |
| OVERALL CALCULATED | 72.1 | 75.5 | 77.5 | 79.0 | 80.8 | 82.3 | 83.8 | 84.6 | 87.2 | 90.8 | 93.9 | 89.0 |
| 7:DB | 76.9 | 80.7 | 83.1 | 85.4 | 87.8 | 89.0 | 90.8 | 91.0 | 93.0 | 94.8 | 96.2 | 95.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **792** ACUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PROC. DATE - MONTH 6 DAY 26 HR. 10.1
DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
ANGLES FROM INLET IN DEGREES (AND RADIAN)
40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. PWL
(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.) (0.) (0.) (0.)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | PWL |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| NO. 55A | 81.1 | 90.9 | 95.2 | 90.0 | 91.3 | 90.9 | 91.6 | 91.5 | 92.2 | 94.0 | 98.9 | 98.9 | 101.7 | 135.1 | | | | | |
| RUG. 40. G. | 80.3 | 84.6 | 46.1 | 82.4 | 90.0 | 91.9 | 92.0 | 91.4 | 90.6 | 90.2 | 99.9 | 99.9 | 101.6 | 136.7 | | | | | |
| RADIAL (12. M) | 50.4 | 83.4 | 36.7 | 86.7 | 87.3 | 87.9 | 87.5 | 84.0 | 90.9 | 96.5 | 101.7 | 102.9 | 105.1 | 139.1 | | | | | |
| VEHICLE CELL41 | 83.5 | 83.5 | 35.0 | 87.1 | 87.7 | 89.3 | 90.2 | 90.8 | 94.3 | 98.9 | 103.6 | 108.5 | 109.5 | 141.9 | | | | | |
| CONFIG NC54 | 31.6 | 85.6 | 37.1 | 87.1 | 88.5 | 89.6 | 92.5 | 93.4 | 95.6 | 100.7 | 108.1 | 110.3 | 111.3 | 144.1 | | | | | |
| LCC C41 ANECH CH | 83.4 | 88.4 | 36.9 | 88.2 | 91.3 | 92.4 | 93.3 | 94.5 | 97.9 | 103.5 | 110.0 | 113.1 | 113.7 | 146.5 | | | | | |
| DATE 05-10-76 | 85.9 | 87.5 | 89.2 | 89.0 | 90.6 | 92.2 | 93.1 | 95.3 | 99.2 | 106.5 | 112.7 | 114.7 | 114.5 | 149.2 | | | | | |
| RUN CONF7CONTSTA | 86.3 | 87.5 | 89.0 | 89.6 | 91.4 | 93.0 | 94.4 | 95.8 | 100.0 | 108.1 | 114.3 | 116.3 | 115.0 | 149.6 | | | | | |
| TAPE X07930 | 87.6 | 89.4 | 89.4 | 90.7 | 92.5 | 94.4 | 95.5 | 97.0 | 98.7 | 103.4 | 110.0 | 116.4 | 115.6 | 150.2 | | | | | |
| BAR 29.4 HG | 90.1 | 90.7 | 91.4 | 92.7 | 94.5 | 95.2 | 97.0 | 98.7 | 103.4 | 110.0 | 116.4 | 115.6 | 115.6 | 151.5 | | | | | |
| (99246. N/M2) | 93.7 | 94.5 | 95.2 | 95.5 | 96.1 | 96.7 | 98.4 | 99.8 | 103.7 | 109.3 | 115.8 | 116.9 | 117.0 | 151.0 | | | | | |
| TAM3 68. DEG F | 91.5 | 94.1 | 95.6 | 95.6 | 96.7 | 98.1 | 99.2 | 100.9 | 104.8 | 109.7 | 115.4 | 117.8 | 116.3 | 151.2 | | | | | |
| (293. DEG K) | 92.4 | 93.7 | 93.9 | 94.5 | 96.1 | 97.7 | 98.6 | 100.7 | 105.7 | 109.3 | 114.2 | 117.6 | 116.4 | 150.8 | | | | | |
| TWET 62. DEG F | 95.4 | 95.5 | 96.2 | 95.5 | 96.9 | 97.7 | 99.6 | 101.8 | 105.5 | 109.1 | 113.3 | 116.2 | 114.2 | 149.7 | | | | | |
| (290. DEG K) | 97.8 | 96.1 | 97.8 | 96.6 | 98.7 | 98.1 | 100.2 | 101.9 | 106.1 | 108.4 | 113.4 | 115.0 | 111.3 | 149.1 | | | | | |
| HACT12.32 SM/M3 | 97.5 | 98.5 | 99.3 | 98.8 | 98.7 | 98.3 | 99.7 | 102.1 | 106.1 | 108.4 | 113.4 | 113.4 | 110.3 | 148.7 | | | | | |
| (.01232 KG/M3) | 95.5 | 96.6 | 98.1 | 98.6 | 99.5 | 99.3 | 99.7 | 102.1 | 105.1 | 107.7 | 112.1 | 111.8 | 108.3 | 147.6 | | | | | |
| FREQ. SHIFT | 94.4 | 95.7 | 96.5 | 97.0 | 98.6 | 99.7 | 100.1 | 102.3 | 104.7 | 106.8 | 111.3 | 110.2 | 108.0 | 146.4 | | | | | |
| JET J | 94.0 | 95.8 | 95.8 | 96.6 | 98.4 | 100.3 | 101.7 | 102.1 | 105.1 | 105.4 | 109.9 | 109.3 | 107.8 | 145.9 | | | | | |
| DIAMETER RATIO | 93.0 | 94.8 | 94.7 | 96.4 | 98.0 | 99.3 | 101.5 | 101.9 | 104.7 | 105.3 | 109.0 | 108.1 | 107.1 | 145.3 | | | | | |
| DF/DH 1.00 | 91.9 | 94.0 | 94.1 | 95.9 | 97.9 | 97.8 | 99.9 | 101.4 | 104.1 | 104.0 | 107.4 | 107.5 | 106.3 | 143.7 | | | | | |
| | 92.1 | 92.2 | 92.2 | 94.4 | 96.0 | 96.3 | 99.5 | 99.1 | 102.0 | 101.7 | 105.1 | 105.4 | 104.6 | 143.2 | | | | | |
| | 87.7 | 90.2 | 90.9 | 93.6 | 95.1 | 95.7 | 98.1 | 97.6 | 100.9 | 99.6 | 103.8 | 104.0 | 103.4 | 141.1 | | | | | |
| | 84.4 | 87.5 | 88.6 | 90.2 | 93.7 | 93.6 | 96.0 | 95.1 | 98.6 | 96.2 | 98.5 | 100.0 | 101.1 | 139.3 | | | | | |
| | 81.8 | 85.3 | 85.2 | 86.8 | 89.0 | 90.0 | 91.2 | 92.2 | 95.8 | 91.9 | 97.7 | 95.8 | 96.8 | 139.2 | | | | | |
| | 79.1 | 82.7 | 83.7 | 86.1 | 87.6 | 88.1 | 90.0 | 88.9 | 92.2 | 88.8 | 94.0 | 95.6 | 95.6 | 138.8 | | | | | |
| | 74.6 | 78.2 | 80.9 | 82.1 | 82.9 | 84.4 | 86.2 | 84.1 | 87.4 | 85.8 | 90.8 | 92.9 | 91.7 | 137.7 | | | | | |
| | 68.2 | 72.9 | 75.2 | 76.7 | 75.6 | 79.9 | 79.7 | 77.6 | 81.0 | 79.8 | 87.6 | 86.4 | 86.2 | 136.6 | | | | | |
| | 63.0 | 67.1 | 70.3 | 70.4 | 69.7 | 74.8 | 74.4 | 72.2 | 74.6 | 75.0 | 83.0 | 80.9 | 79.8 | 136.6 | | | | | |
| | 58.6 | 62.6 | 67.8 | 65.6 | 64.5 | 72.7 | 73.6 | 65.6 | 70.1 | 72.4 | 80.2 | 76.0 | 76.2 | 161.7 | | | | | |
| OVERALL MEASURED | 105.8 | 107.2 | 107.8 | 108.2 | 109.5 | 110.3 | 111.9 | 113.2 | 116.7 | 120.2 | 125.7 | 127.4 | 126.2 | | | | | | |
| OVERALL CALC | 112.4 | 120.7 | 121.3 | 121.1 | 121.4 | 122.9 | 123.0 | 125.8 | 129.2 | 130.2 | 132.6 | 133.0 | 134.2 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **793** ACOUSTIC RANGE **12.2m(40ft.)** ARC **MODEL-154cm²(23.9in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENGT5)

| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| FREQ. (C.) | 7.75 | 15.5 | 31.0 | 62.0 | 124.0 | 248.0 | 496.0 | 992.0 | 1984.0 | 3968.0 | 7936.0 | 15872.0 | 31744.0 | 63488.0 | 126976.0 | 253952.0 | 507904.0 |
| NO EGA | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |
| RDG. NO. | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 |
| RADIAL (150. FT.) | 33.4 | 35.2 | 37.8 | 40.8 | 44.4 | 48.8 | 54.0 | 60.0 | 66.8 | 74.4 | 82.8 | 92.0 | 102.0 | 112.8 | 124.4 | 136.8 | 150.0 |
| VEHICLE | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 | CELL41 |
| CONFIG | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 | NC54 |
| LQC | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 | C41 |
| DATE | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 | 06-10-76 |
| RUN | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA | CON7CONTSTA |
| TAPE | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 | XG7930 |
| BAR | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG | 29.4 HG |
| (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) | (99246. N/M2) |
| TAMB | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F | 68. DEG F |
| (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) | (293. DEG K) |
| TWET | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F | 62. DEG F |
| (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) | (290. DEG K) |
| HACT | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 | 12.32 GM/M3 |
| (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) | (.01232 KG/M3) |
| FREQ. SHIFT | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| JET | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| DIAMETER RATIO | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 |
| DF/DM | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 |
| OVERALL CALCULATED | 107.9 | 109.2 | 109.9 | 110.4 | 111.7 | 112.6 | 114.2 | 115.3 | 118.9 | 122.1 | 127.6 | 129.2 | 128.0 | 135.1 | 136.2 | 135.1 | 135.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 793 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| 50 | 55.2 | 60.8 | 63.4 | 64.2 | 65.9 | 67.2 | 69.9 | 70.4 | 71.9 | 75.9 | 81.8 | 81.7 | 79.3 |
| 63 | 57.0 | 63.6 | 63.2 | 65.2 | 68.7 | 70.0 | 70.7 | 71.5 | 74.2 | 78.7 | 83.6 | 84.5 | 81.5 |
| 80 | 59.4 | 62.6 | 65.4 | 65.9 | 68.0 | 69.7 | 70.5 | 72.2 | 75.4 | 81.6 | 86.2 | 85.9 | 82.1 |
| 100 | 59.7 | 62.6 | 65.2 | 66.5 | 68.7 | 70.5 | 71.7 | 72.7 | 75.2 | 83.1 | 87.7 | 87.3 | 82.5 |
| 125 | 60.9 | 64.3 | 65.4 | 67.5 | 69.7 | 71.7 | 72.7 | 74.5 | 77.9 | 83.9 | 88.4 | 87.5 | 82.8 |
| 160 | 63.2 | 65.4 | 67.3 | 69.4 | 71.6 | 72.4 | 74.1 | 75.4 | 79.3 | 84.7 | 89.5 | 88.8 | 83.3 |
| 200 | 66.6 | 69.1 | 71.0 | 73.1 | 73.8 | 75.3 | 76.3 | 79.5 | 83.9 | 88.7 | 87.4 | 83.5 | |
| 250 | 64.2 | 68.4 | 71.2 | 72.0 | 73.5 | 75.0 | 76.0 | 77.2 | 80.4 | 84.0 | 87.9 | 82.3 | |
| 315 | 64.7 | 67.8 | 69.3 | 70.6 | 72.7 | 74.4 | 75.2 | 76.9 | 81.0 | 83.4 | 86.5 | 87.3 | 81.8 |
| NFD (750. RPM) | 67.3 | 69.2 | 71.2 | 71.4 | 73.2 | 74.2 | 75.9 | 77.6 | 80.5 | 82.8 | 85.1 | 85.3 | 78.7 |
| (785. RAD/SEC) | 69.1 | 71.4 | 72.5 | 72.1 | 72.7 | 74.2 | 76.2 | 77.4 | 80.7 | 81.7 | 84.7 | 83.5 | 74.3 |
| AIRFLOW RATIO | 68.2 | 71.3 | 73.5 | 73.9 | 74.3 | 74.1 | 75.3 | 77.2 | 80.2 | 81.2 | 84.1 | 81.3 | 72.5 |
| WF/WM 4.63 | 65.4 | 68.6 | 71.7 | 73.2 | 74.5 | 74.6 | 74.8 | 76.7 | 78.7 | 79.8 | 82.0 | 78.2 | 68.9 |
| VEHICLE CELL41 | 63.2 | 66.9 | 69.3 | 70.8 | 73.0 | 74.3 | 74.5 | 76.1 | 77.5 | 78.0 | 80.1 | 75.2 | 66.4 |
| CONFIG NC54 | 61.5 | 65.9 | 67.7 | 69.6 | 72.0 | 74.1 | 75.3 | 75.1 | 77.0 | 75.6 | 77.4 | 73.1 | 63.8 |
| LOC C41 ANECH CH | 58.7 | 63.5 | 65.3 | 68.3 | 70.5 | 72.1 | 74.0 | 73.8 | 75.3 | 74.0 | 74.7 | 69.1 | 59.5 |
| DATE 06-10-76 | 55.6 | 61.0 | 63.3 | 66.4 | 69.2 | 69.3 | 71.2 | 71.9 | 73.3 | 71.0 | 71.1 | 65.8 | 54.5 |
| RUN CONF/CONTSTA | 50.0 | 56.6 | 59.3 | 63.1 | 65.5 | 66.1 | 69.0 | 67.7 | 69.0 | 66.2 | 65.7 | 59.6 | 46.7 |
| TAPE X07930 | 43.5 | 50.8 | 54.6 | 59.1 | 61.7 | 62.6 | 64.7 | 63.2 | 64.3 | 60.3 | 59.6 | 51.8 | 35.8 |
| FAN TIP SPEED | 32.8 | 42.1 | 47.1 | 51.1 | 55.9 | 56.2 | 58.2 | 55.9 | 57.1 | 50.9 | 47.0 | 38.0 | 18.7 |
| FT/SEC | 26.8 | 37.3 | 41.6 | 45.8 | 49.5 | 50.9 | 51.7 | 51.1 | 52.1 | 43.9 | 42.8 | 29.0 | 6.7 |
| 6000 | 12.0 | 24.8 | 31.5 | 37.5 | 40.9 | 41.9 | 43.3 | 40.2 | 40.0 | 30.9 | 26.9 | 12.6 | |
| 8000 | 5.1 | 15.5 | 21.6 | 25.1 | 27.4 | 28.3 | 28.3 | 23.6 | 22.1 | 12.7 | 4.9 | | |
| 10000 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 76.5 | 79.6 | 81.6 | 82.6 | 84.3 | 85.3 | 86.6 | 87.8 | 93.7 | 93.9 | 97.8 | 97.1 | 92.2 |
| ±VdB | 82.1 | 85.6 | 87.9 | 89.4 | 91.4 | 92.8 | 94.4 | 94.8 | 97.0 | 93.4 | 101.3 | 100.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **793** ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

NO EGA 63
 RDG. NO. 80
 RADIAL (12. M)
 VEHICLE CELL41
 CONFIG NC54
 LOC C41 ANECH CH
 DATE 06-10-76
 RUN CONF7CONTSTA
 TAPE X07940
 BAR 29.4 HG
 (99246. N/M2)
 TAMB 67. DEG F
 (292. DEG K)
 TWET 62. DEG F
 (290. DEG K)
 HACT12.79 GM/M3
 (.01279 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 DF/DH 1.60

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | PWL | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|-------|-------|
| | (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.) | |
| 82.4 | 92.2 | 39.4 | 91.7 | 93.0 | 92.9 | 93.0 | 93.0 | 93.0 | 94.4 | 96.2 | 100.2 | 100.1 | 103.7 | | | | 137.7 | |
| 81.3 | 36.1 | 27.6 | 89.9 | 91.7 | 93.1 | 93.7 | 93.7 | 93.7 | 92.9 | 92.7 | 92.9 | 101.9 | 103.6 | 104.9 | | | 139.6 | |
| 81.6 | 84.7 | 88.5 | 89.2 | 89.2 | 89.2 | 89.5 | 89.5 | 90.7 | 92.7 | 98.0 | 103.2 | 104.6 | 107.7 | | | | 139.8 | |
| 84.3 | 85.8 | 88.6 | 89.2 | 90.8 | 92.2 | 93.1 | 92.2 | 93.1 | 96.5 | 101.1 | 105.8 | 109.3 | 112.0 | | | | 143.7 | |
| 83.1 | 86.8 | 89.1 | 90.2 | 91.6 | 93.7 | 94.9 | 94.9 | 97.3 | 102.9 | 109.6 | 112.0 | 113.3 | | | | | 145.9 | |
| 85.2 | 90.2 | 88.2 | 90.5 | 92.8 | 93.9 | 95.1 | 95.7 | 99.4 | 105.8 | 111.7 | 115.1 | 115.4 | | | | | 148.4 | |
| 87.4 | 89.0 | 90.7 | 90.8 | 92.3 | 93.7 | 94.8 | 97.3 | 101.0 | 108.3 | 114.7 | 116.4 | 115.7 | | | | | 150.0 | |
| 88.0 | 89.0 | 90.5 | 91.1 | 92.2 | 94.8 | 96.2 | 97.6 | 102.3 | 110.4 | 116.1 | 117.8 | 116.3 | | | | | 151.2 | |
| 89.6 | 90.9 | 91.4 | 92.9 | 94.0 | 95.6 | 97.8 | 98.9 | 104.1 | 111.0 | 117.2 | 118.6 | 116.9 | | | | | 152.1 | |
| 91.4 | 92.4 | 93.2 | 94.2 | 95.5 | 96.9 | 98.5 | 100.9 | 105.7 | 111.7 | 117.4 | 119.1 | 117.7 | | | | | 152.7 | |
| 96.2 | 97.0 | 96.8 | 97.4 | 98.2 | 99.4 | 102.0 | 106.2 | 111.3 | 117.0 | 118.7 | 118.0 | | | | | | 152.5 | |
| 96.3 | 97.8 | 97.1 | 98.5 | 99.8 | 100.2 | 102.6 | 106.8 | 111.6 | 117.1 | 120.0 | 117.8 | | | | | | 153.1 | |
| 96.9 | 96.9 | 96.2 | 97.0 | 97.6 | 99.9 | 101.1 | 102.5 | 107.4 | 111.5 | 116.7 | 119.4 | 117.4 | | | | | 152.7 | |
| 98.4 | 98.2 | 98.7 | 97.5 | 98.3 | 99.5 | 101.6 | 103.5 | 108.0 | 112.1 | 117.3 | 118.7 | 114.0 | | | | | 152.4 | |
| 92.6 | 100.1 | 99.4 | 99.7 | 99.8 | 102.5 | 104.1 | 108.0 | 112.1 | 117.4 | 117.1 | 116.8 | 111.8 | | | | | 151.6 | |
| 99.5 | 100.3 | 100.1 | 101.4 | 101.0 | 101.7 | 104.3 | 108.6 | 111.7 | 116.8 | 115.3 | 110.5 | | | | | | 151.2 | |
| 97.3 | 99.3 | 98.6 | 98.6 | 100.0 | 101.6 | 102.2 | 104.6 | 107.8 | 111.4 | 114.4 | 113.3 | 108.5 | | | | | 149.8 | |
| 97.4 | 98.0 | 99.3 | 99.8 | 101.2 | 103.1 | 104.5 | 107.7 | 110.6 | 113.5 | 112.2 | 108.4 | | | | | | 149.2 | |
| 96.8 | 98.3 | 98.5 | 98.5 | 100.2 | 102.0 | 103.9 | 104.6 | 107.8 | 110.2 | 111.9 | 111.3 | 107.5 | | | | | 148.7 | |
| 96.3 | 97.4 | 99.4 | 100.7 | 101.3 | 103.5 | 104.9 | 107.4 | 109.8 | 110.9 | 110.1 | 106.3 | | | | | | 148.6 | |
| 96.8 | 96.8 | 95.9 | 97.8 | 100.7 | 101.0 | 102.9 | 103.8 | 106.9 | 108.5 | 109.4 | 109.5 | 106.3 | | | | | 147.8 | |
| 95.6 | 95.9 | 97.1 | 98.2 | 100.1 | 102.0 | 101.5 | 104.9 | 106.1 | 107.0 | 107.3 | 103.8 | | | | | | 146.2 | |
| 94.6 | 97.0 | 97.8 | 98.4 | 100.8 | 100.1 | 103.6 | 104.3 | 105.4 | 106.5 | 106.5 | 102.9 | | | | | | 145.7 | |
| 89.6 | 94.6 | 97.0 | 96.9 | 96.0 | 99.2 | 97.7 | 100.8 | 100.8 | 101.7 | 102.4 | 101.0 | | | | | | 143.8 | |
| 90.9 | 92.3 | 94.4 | 93.4 | 93.6 | 94.4 | 95.3 | 98.1 | 97.3 | 100.1 | 97.9 | 96.7 | | | | | | 142.2 | |
| 88.2 | 88.2 | 88.9 | 91.4 | 93.1 | 92.5 | 95.3 | 94.9 | 96.8 | 98.5 | 94.7 | | | | | | | 142.6 | |
| 80.2 | 85.8 | 87.3 | 90.2 | 91.4 | 93.1 | 92.5 | 95.3 | 94.9 | 96.8 | 98.5 | 94.7 | | | | | | 141.8 | |
| 75.1 | 80.5 | 83.9 | 86.4 | 86.9 | 87.0 | 88.9 | 87.9 | 91.1 | 92.5 | 94.1 | 94.2 | 89.7 | | | | | 140.7 | |
| 68.5 | 74.2 | 77.7 | 80.9 | 80.0 | 80.9 | 81.6 | 80.6 | 84.9 | 87.4 | 91.3 | 37.6 | 64.6 | | | | | 142.1 | |
| 67.0 | 71.9 | 75.8 | 74.8 | 74.5 | 75.0 | 74.3 | 78.6 | 83.5 | 87.0 | 82.0 | 79.5 | | | | | | 142.1 | |
| 57.5 | 62.1 | 58.0 | 72.6 | 70.5 | 71.2 | 72.6 | 66.8 | 73.5 | 81.3 | 82.6 | 78.5 | 72.9 | | | | | 147.6 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | 163.7 |
| OVERALL CALCULATED | 107.3 | 109.1 | 109.8 | 110.3 | 111.5 | 112.5 | 114.1 | 115.4 | 119.2 | 123.0 | 127.9 | 129.1 | 127.5 | | | | | |
| PND3 | 120.6 | 122.1 | 122.9 | 123.0 | 124.2 | 124.9 | 126.1 | 128.0 | 131.8 | 135.5 | 140.2 | 140.3 | 137.6 | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 794 ACQUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | | |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| RDG. NO. | (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) | (2.97) | |
| NO EGA | 50 | 84.9 | 88.7 | 90.7 | 91.0 | 92.1 | 93.4 | 95.6 | 96.7 | 97.6 | 101.3 | 107.6 | 113.5 | 117.0 | 0. |
| RADIAL 150. FT. | 63 | 87.0 | 92.0 | 90.0 | 92.3 | 94.7 | 95.8 | 96.9 | 97.6 | 101.3 | 107.6 | 113.5 | 117.0 | 117.3 | 159.2 |
| VEHICLE (45. M) | 80 | 89.3 | 90.9 | 92.5 | 92.6 | 94.2 | 95.5 | 96.7 | 99.1 | 102.8 | 110.1 | 116.6 | 118.3 | 117.5 | 161.7 |
| CONFIG CELL41 | 100 | 91.5 | 92.7 | 93.2 | 94.8 | 95.9 | 97.5 | 99.6 | 100.8 | 105.0 | 112.2 | 117.9 | 119.6 | 118.1 | 163.3 |
| LOC C41 ANECH CH | 125 | 93.2 | 94.2 | 95.0 | 96.0 | 97.4 | 98.7 | 100.4 | 102.8 | 107.5 | 113.6 | 119.3 | 121.0 | 119.5 | 165.4 |
| RUN CONF7CONTSTA | 200 | 96.3 | 98.1 | 98.5 | 98.6 | 99.2 | 100.1 | 101.2 | 103.9 | 108.1 | 113.2 | 118.9 | 120.5 | 119.8 | 166.7 |
| TAPE X07940 | 315 | 97.7 | 98.8 | 98.0 | 98.8 | 99.4 | 100.3 | 101.8 | 102.9 | 104.3 | 109.3 | 113.4 | 118.6 | 121.2 | 166.4 |
| BAR 29.4 HG | 400 | 100.3 | 100.1 | 100.6 | 99.4 | 100.2 | 101.3 | 103.5 | 105.4 | 109.8 | 113.9 | 119.1 | 120.5 | 119.3 | 166.0 |
| (99246. N/M2) | 500 | 100.4 | 101.5 | 102.0 | 102.0 | 103.3 | 103.0 | 103.6 | 106.0 | 110.0 | 113.3 | 119.0 | 118.7 | 113.7 | 165.9 |
| TAMP 67. DEG F | 630 | 100.4 | 101.5 | 102.2 | 102.0 | 103.3 | 103.0 | 103.6 | 106.0 | 110.0 | 113.3 | 119.0 | 118.7 | 113.7 | 164.5 |
| (290. DEG K) | 1000 | 97.4 | 99.4 | 100.0 | 101.2 | 101.8 | 103.2 | 105.1 | 106.5 | 109.7 | 112.6 | 115.5 | 114.1 | 110.4 | 162.5 |
| TWET 62. DEG F | 1250 | 96.5 | 98.8 | 100.4 | 100.9 | 102.2 | 104.1 | 106.0 | 106.6 | 109.9 | 112.2 | 113.9 | 113.3 | 109.6 | 162.0 |
| (290. DEG K) | 1600 | 96.7 | 98.6 | 99.6 | 101.6 | 102.9 | 103.6 | 105.7 | 107.1 | 109.6 | 112.0 | 113.2 | 112.3 | 108.6 | 161.7 |
| HACT17.79 GM/M3 | 2000 | 95.4 | 99.2 | 99.3 | 100.3 | 103.1 | 103.5 | 105.4 | 106.3 | 109.3 | 111.0 | 111.9 | 112.0 | 108.7 | 161.1 |
| (.01279 KG/M3) | 2500 | 94.1 | 98.3 | 98.7 | 99.9 | 101.0 | 102.8 | 104.7 | 104.3 | 107.7 | 108.9 | 109.8 | 110.1 | 106.6 | 159.5 |
| FREQ. SHIFT | 3150 | 93.0 | 97.2 | 97.9 | 100.4 | 101.1 | 101.7 | 104.1 | 103.4 | 106.9 | 107.7 | 108.8 | 109.8 | 106.2 | 159.0 |
| JET | 4000 | 90.4 | 95.0 | 96.3 | 98.5 | 101.0 | 100.1 | 103.2 | 101.8 | 104.9 | 104.6 | 105.8 | 106.4 | 105.1 | 157.2 |
| DIAMETER RATIO | 5000 | 88.8 | 93.6 | 94.2 | 96.8 | 98.7 | 99.0 | 99.7 | 100.6 | 103.5 | 102.6 | 103.4 | 103.3 | 102.1 | 155.5 |
| DF/DM 4.63 | 6300 | 87.2 | 92.7 | 94.2 | 97.1 | 98.9 | 98.3 | 100.0 | 99.4 | 102.2 | 101.8 | 103.8 | 105.6 | 101.6 | 155.7 |
| OVERALL CALCULATED | 8000 | 84.4 | 89.7 | 93.1 | 95.7 | 96.2 | 98.2 | 97.1 | 100.4 | 101.8 | 103.3 | 103.5 | 99.0 | 96.9 | 155.1 |
| | 10000 | 80.8 | 86.5 | 90.0 | 93.2 | 92.3 | 93.2 | 93.9 | 92.9 | 97.2 | 99.8 | 103.6 | 99.9 | 96.9 | 154.2 |
| | 12500 | 78.5 | 83.7 | 88.6 | 91.6 | 91.2 | 91.5 | 91.1 | 95.4 | 100.3 | 103.8 | 98.8 | 96.3 | 96.3 | 155.4 |
| | 16000 | 80.6 | 85.2 | 91.1 | 95.8 | 93.7 | 94.3 | 95.7 | 89.9 | 96.6 | 104.4 | 105.7 | 101.6 | 96.1 | 160.9 |
| | 20000 | 109.3 | 111.2 | 112.0 | 112.7 | 113.9 | 114.7 | 116.4 | 117.6 | 121.3 | 125.1 | 129.8 | 131.0 | 129.0 | 177.3 |
| | 25000 | 119.3 | 122.6 | 123.4 | 123.0 | 126.1 | 126.8 | 128.7 | 129.0 | 132.6 | 134.7 | 137.5 | 138.2 | 135.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
7 794 45.7m(150ft.) ARC FULL-.33m²(513in²)

| NO EGA
(731.52 M)
SIDELINE 2400. FT. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. | (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) |
| 50 | 56.7 | 62.1 | 65.1 | 66.2 | 67.7 | 69.2 | 71.2 | 71.9 | 73.6 | 78.1 | 83.3 | 83.4 | 81.3 |
| 63 | 58.7 | 65.4 | 64.5 | 67.5 | 67.2 | 71.5 | 72.2 | 74.2 | 77.2 | 83.4 | 88.2 | 87.6 | 83.4 |
| 80 | 60.9 | 64.1 | 66.9 | 67.7 | 69.7 | 71.2 | 72.2 | 74.2 | 77.2 | 83.4 | 88.2 | 87.6 | 83.4 |
| 100 | 61.4 | 64.1 | 66.7 | 68.0 | 69.5 | 72.2 | 73.5 | 74.5 | 78.4 | 85.4 | 89.5 | 88.8 | 83.7 |
| 125 | 62.9 | 65.8 | 67.4 | 69.7 | 71.2 | 73.0 | 75.0 | 75.7 | 80.2 | 85.9 | 90.4 | 89.5 | 84.1 |
| 160 | 64.5 | 67.2 | 69.1 | 70.9 | 72.6 | 74.1 | 75.6 | 77.6 | 81.6 | 86.5 | 90.5 | 89.8 | 84.5 |
| 200 | 67.8 | 70.8 | 72.7 | 73.3 | 74.3 | 75.3 | 76.3 | 78.6 | 82.0 | 85.9 | 89.9 | 89.1 | 84.5 |
| 250 | 66.7 | 70.7 | 73.4 | 73.5 | 74.2 | 76.7 | 77.7 | 78.6 | 82.8 | 85.6 | 89.0 | 89.0 | 82.8 |
| 315 | 68.2 | 71.0 | 73.1 | 73.1 | 74.2 | 76.7 | 77.7 | 78.6 | 82.8 | 85.6 | 89.0 | 89.0 | 82.8 |
| NFD (7500. RPM) | 400 | 70.3 | 72.0 | 73.7 | 73.4 | 74.7 | 75.9 | 77.9 | 79.4 | 83.0 | 85.8 | 89.1 | 87.8 |
| AIRFLOW RATIO | 500 | 69.9 | 72.9 | 74.7 | 74.9 | 75.7 | 76.0 | 78.5 | 79.6 | 82.7 | 84.7 | 88.5 | 85.2 |
| WFM/W 4.63 | 630 | 69.2 | 72.3 | 74.5 | 75.2 | 77.0 | 77.3 | 79.4 | 82.7 | 84.4 | 87.6 | 82.8 | 72.8 |
| VEHICLE CELL41 | 800 | 65.9 | 69.9 | 72.9 | 73.1 | 75.0 | 76.8 | 77.3 | 79.1 | 81.4 | 83.5 | 84.2 | 79.7 |
| CONFIG NEC54 | 1000 | 64.2 | 68.6 | 70.3 | 73.1 | 74.2 | 75.8 | 77.5 | 78.3 | 80.5 | 81.8 | 82.3 | 77.2 |
| LOC C41 ANECH CH | 1250 | 62.0 | 66.9 | 70.2 | 71.8 | 73.8 | 75.8 | 77.5 | 77.6 | 79.7 | 80.3 | 79.6 | 74.6 |
| DATE 06-10-76 | 1600 | 60.2 | 65.0 | 68.0 | 71.2 | 73.3 | 74.1 | 76.0 | 76.7 | 78.0 | 78.5 | 76.7 | 71.7 |
| RUN CONF7CONTSTA | 2000 | 56.6 | 63.8 | 66.0 | 68.4 | 72.0 | 72.6 | 74.2 | 74.4 | 76.0 | 75.5 | 73.1 | 67.8 |
| TAPE X07940 | 2500 | 51.9 | 60.1 | 63.0 | 65.8 | 67.7 | 69.8 | 71.4 | 70.2 | 72.0 | 70.7 | 67.7 | 61.5 |
| FAN TIP SPEED | 3150 | 45.4 | 54.5 | 58.3 | 62.6 | 64.4 | 65.3 | 67.4 | 65.6 | 67.3 | 65.0 | 61.3 | 54.2 |
| FT/SEC | 4000 | 34.8 | 45.2 | 50.4 | 53.8 | 54.5 | 54.8 | 54.3 | 58.6 | 59.3 | 55.2 | 50.1 | 40.4 |
| | 5000 | 28.5 | 40.2 | 45.2 | 48.2 | 45.3 | 46.4 | 43.8 | 43.1 | 37.0 | 29.7 | 15.4 | 6.6 |
| | 6300 | 13.1 | 27.9 | 35.1 | 35.9 | 29.1 | 29.9 | 31.1 | 27.4 | 25.9 | 19.4 | 8.2 | |
| | 8000 | 7.4 | 18.6 | 25.9 | 29.1 | 29.1 | 29.1 | 29.1 | 27.4 | 25.9 | 19.4 | 8.2 | |
| | 10000 | 3.8 | 6.4 | 8.4 | 8.0 | 8.4 | 8.0 | 8.0 | 3.5 | 3.5 | 1.2 | | |
| OVERALL CALCULATED | 78.1 | 81.4 | 83.4 | 84.4 | 86.0 | 87.3 | 88.6 | 89.9 | 93.0 | 96.3 | 99.9 | 98.9 | 93.4 |
| | 83.5 | 87.5 | 89.9 | 91.9 | 94.1 | 95.1 | 96.7 | 97.3 | 99.5 | 101.5 | 103.9 | 101.9 | 94.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **794** ACQUSTIC RANGE FULL-.33m²(513in²)

PROC. DATE - MONTH 8 DAY 26 HR. 10.1
 ANGLES FROM INLET IN DEGREES (AND RADIAN) HUM. DAY - JENOTS)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | | | | | | | | | | | | | | |
| RDG. NO. | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | |
| RADIAL (12. M) | 84.1 | 94.2 | 91.7 | 93.2 | 94.5 | 94.2 | 95.0 | 95.2 | 96.4 | 97.7 | 102.2 | 102.4 | 105.2 | 139.5 |
| VEHICLE CELL 41 | 83.1 | 87.6 | 89.4 | 91.4 | 93.5 | 95.1 | 95.2 | 95.7 | 94.6 | 94.9 | 103.9 | 105.3 | 106.6 | 140.4 |
| CONFIG NCS4 | 35.5 | 87.0 | 88.0 | 90.1 | 90.4 | 92.0 | 91.3 | 91.9 | 93.9 | 99.3 | 105.2 | 106.6 | 109.4 | 141.6 |
| LOC C41 ANECH CH | 84.6 | 89.1 | 89.5 | 90.9 | 91.5 | 93.3 | 95.5 | 96.6 | 99.8 | 103.1 | 107.3 | 111.5 | 113.5 | 145.4 |
| DATE 06-10-76 | 86.4 | 91.4 | 89.7 | 91.5 | 94.3 | 95.2 | 96.1 | 97.5 | 100.9 | 107.8 | 114.0 | 116.0 | 115.1 | 147.9 |
| RUN CONF7CONTSTA | 88.9 | 91.0 | 92.2 | 92.3 | 93.6 | 95.0 | 96.1 | 98.5 | 103.2 | 111.0 | 117.0 | 117.9 | 116.7 | 150.1 |
| TAPE X07950 | 500 | 89.3 | 90.8 | 92.5 | 93.1 | 94.4 | 96.4 | 97.7 | 99.8 | 104.3 | 112.4 | 118.1 | 119.8 | 151.7 |
| BAR 29.4 HG | 630 | 90.6 | 92.4 | 93.4 | 94.4 | 95.8 | 96.9 | 99.0 | 101.4 | 106.1 | 113.7 | 119.2 | 120.1 | 153.1 |
| (99246. N/M2) | 800 | 93.4 | 94.2 | 94.7 | 95.4 | 97.0 | 98.9 | 100.3 | 102.4 | 107.7 | 114.2 | 119.9 | 120.9 | 153.9 |
| TAMB 68. DEG F | 1000 | 96.2 | 97.7 | 98.0 | 98.8 | 99.1 | 100.0 | 101.6 | 103.5 | 108.2 | 114.3 | 120.6 | 120.4 | 154.6 |
| (293. DEG K) | 1250 | 98.0 | 99.6 | 100.3 | 99.6 | 99.7 | 101.3 | 103.0 | 104.6 | 109.3 | 114.4 | 120.6 | 121.8 | 154.7 |
| TWET 64. DEG F | 1600 | 105.4 | 104.2 | 101.9 | 99.5 | 100.1 | 101.7 | 102.1 | 104.7 | 110.2 | 114.5 | 121.5 | 120.9 | 155.4 |
| (291. DEG K) | 2000 | 106.4 | 106.5 | 106.2 | 104.0 | 102.1 | 101.5 | 103.9 | 105.5 | 109.7 | 114.8 | 120.8 | 118.7 | 155.4 |
| MACT13.72 GM/M3 | 2500 | 105.0 | 106.8 | 107.3 | 107.6 | 106.5 | 103.6 | 104.0 | 106.1 | 111.1 | 115.2 | 119.6 | 116.0 | 154.6 |
| (-01372 KG/MS) | 3150 | 103.7 | 105.3 | 105.8 | 106.1 | 107.7 | 107.3 | 105.2 | 106.8 | 110.8 | 115.7 | 118.1 | 115.3 | 154.0 |
| FREQ. SHIFT | 4000 | 102.3 | 103.3 | 104.3 | 104.1 | 105.0 | 106.8 | 107.0 | 107.6 | 110.3 | 116.4 | 113.3 | 109.1 | 153.5 |
| JET | 5000 | 101.1 | 102.9 | 103.7 | 104.3 | 104.6 | 105.7 | 107.1 | 108.5 | 110.5 | 114.6 | 115.5 | 112.9 | 152.8 |
| DIAMETER RATIO | 6300 | 100.2 | 102.0 | 103.1 | 103.6 | 105.2 | 106.3 | 107.4 | 108.5 | 110.5 | 114.7 | 115.1 | 112.5 | 152.0 |
| DF/DM 1.00 | 8000 | 99.7 | 100.6 | 102.1 | 102.9 | 104.7 | 105.6 | 107.2 | 108.4 | 110.4 | 113.5 | 114.4 | 111.3 | 151.7 |
| | 12500 | 98.1 | 101.5 | 101.3 | 102.3 | 104.4 | 104.2 | 106.6 | 107.6 | 109.6 | 112.0 | 112.9 | 111.0 | 151.0 |
| | 16000 | 95.8 | 99.0 | 100.1 | 101.4 | 102.7 | 103.0 | 104.9 | 105.8 | 107.9 | 110.1 | 111.2 | 109.3 | 149.8 |
| | 20000 | 91.5 | 94.6 | 96.4 | 97.6 | 97.6 | 101.5 | 104.5 | 104.0 | 107.0 | 108.5 | 109.6 | 108.4 | 149.4 |
| | 25000 | 88.6 | 92.6 | 93.7 | 94.8 | 97.0 | 97.5 | 98.1 | 102.0 | 101.9 | 102.9 | 102.9 | 108.8 | 148.9 |
| | 31500 | 86.3 | 90.1 | 92.0 | 93.7 | 95.0 | 96.4 | 96.3 | 98.5 | 99.9 | 100.1 | 108.3 | 95.0 | 147.2 |
| | 40000 | 81.2 | 85.7 | 88.6 | 89.1 | 89.9 | 90.5 | 91.7 | 91.8 | 94.8 | 97.7 | 97.5 | 103.9 | 147.7 |
| | 50000 | 75.7 | 79.8 | 83.5 | 83.8 | 82.9 | 83.8 | 84.0 | 85.0 | 88.5 | 92.2 | 95.4 | 97.4 | 147.1 |
| | 63000 | 70.6 | 73.8 | 78.3 | 77.6 | 77.1 | 77.5 | 76.8 | 79.0 | 83.9 | 88.4 | 91.0 | 91.0 | 145.8 |
| | 80000 | 67.0 | 70.3 | 76.1 | 75.0 | 72.5 | 73.1 | 74.0 | 74.9 | 80.1 | 86.0 | 89.2 | 86.1 | 147.0 |
| OVERALL MEASURED | | | | | | | | | | | | | | 153.3 |
| OVERALL CALCULATED | 113.4 | 114.5 | 114.9 | 115.0 | 115.8 | 116.1 | 117.2 | 118.6 | 121.7 | 126.4 | 130.7 | 130.6 | 128.3 | 166.6 |
| PNO3 | 126.0 | 127.6 | 128.0 | 128.2 | 129.0 | 129.2 | 129.6 | 130.8 | 134.2 | 139.3 | 142.6 | 141.1 | 138.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE
 7 795 12.2m(40ft.) ARC

SIZE
 MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROC. DATE - MONTH 8 DAY 25 HR. 21.4
 (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | PWL |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | |
| 50 | 86.4 | 90.9 | 92.2 | 92.7 | 93.3 | 95.2 | 97.3 | 98.5 | 101.2 | 107.0 | 113.7 | 115.9 | 116.9 | 161.2 | | | | | | |
| 63 | 88.2 | 93.3 | 91.5 | 93.3 | 96.2 | 97.0 | 97.9 | 99.3 | 102.8 | 109.6 | 115.8 | 118.5 | 163.4 | | | | | | | |
| 80 | 90.8 | 92.8 | 94.1 | 94.1 | 95.4 | 96.8 | 97.9 | 100.3 | 105.1 | 112.9 | 118.8 | 118.5 | 165.1 | | | | | | | |
| 102 | 91.1 | 92.6 | 94.4 | 94.9 | 96.3 | 97.9 | 99.5 | 101.7 | 106.1 | 114.2 | 119.9 | 121.6 | 166.4 | | | | | | | |
| 125 | 92.5 | 94.2 | 95.2 | 96.3 | 97.6 | 98.7 | 100.9 | 103.3 | 108.0 | 115.6 | 121.0 | 121.9 | 167.2 | | | | | | | |
| 160 | 95.2 | 96.0 | 96.5 | 97.3 | 98.9 | 100.7 | 102.1 | 104.3 | 109.5 | 116.1 | 121.8 | 122.7 | 168.0 | | | | | | | |
| 200 | 98.0 | 99.6 | 99.8 | 100.6 | 101.0 | 101.8 | 103.5 | 105.4 | 110.1 | 116.2 | 121.9 | 122.3 | 168.0 | | | | | | | |
| 250 | 99.9 | 101.4 | 102.2 | 101.5 | 101.6 | 103.2 | 104.8 | 106.5 | 111.2 | 116.3 | 122.5 | 123.6 | 168.7 | | | | | | | |
| 315 | 107.2 | 106.0 | 103.8 | 101.3 | 101.9 | 103.5 | 103.9 | 105.6 | 112.0 | 116.4 | 123.3 | 122.7 | 168.7 | | | | | | | |
| 400 | 108.3 | 108.3 | 108.1 | 105.9 | 104.0 | 103.3 | 105.7 | 107.4 | 111.6 | 116.7 | 122.6 | 120.5 | 167.9 | | | | | | | |
| 500 | 106.9 | 108.7 | 109.2 | 109.5 | 108.3 | 105.5 | 105.8 | 108.0 | 113.0 | 117.1 | 121.5 | 117.9 | 167.3 | | | | | | | |
| 630 | 105.7 | 107.2 | 107.7 | 108.0 | 109.6 | 109.2 | 107.1 | 103.8 | 112.7 | 117.6 | 120.0 | 117.2 | 166.8 | | | | | | | |
| 800 | 104.2 | 105.3 | 106.3 | 106.1 | 106.9 | 108.8 | 108.9 | 109.6 | 112.3 | 118.4 | 118.3 | 115.3 | 166.1 | | | | | | | |
| 1000 | 103.1 | 104.9 | 105.7 | 106.2 | 106.6 | 107.7 | 109.1 | 110.5 | 112.5 | 116.6 | 117.5 | 114.9 | 165.4 | | | | | | | |
| 1250 | 102.3 | 104.1 | 105.1 | 105.6 | 107.2 | 108.3 | 109.5 | 110.9 | 112.9 | 116.7 | 117.2 | 114.6 | 165.5 | | | | | | | |
| 1600 | 101.9 | 103.0 | 104.3 | 105.1 | 106.9 | 107.8 | 109.4 | 110.6 | 112.6 | 115.7 | 116.7 | 113.5 | 165.0 | | | | | | | |
| 2000 | 100.6 | 103.9 | 103.8 | 104.8 | 106.8 | 106.7 | 109.1 | 110.0 | 112.0 | 114.4 | 115.3 | 113.5 | 164.3 | | | | | | | |
| 2500 | 98.5 | 101.8 | 102.9 | 104.2 | 105.5 | 105.8 | 107.7 | 108.6 | 110.7 | 112.9 | 114.0 | 112.1 | 163.1 | | | | | | | |
| 3150 | 97.7 | 100.7 | 102.1 | 104.0 | 105.8 | 105.2 | 107.8 | 107.3 | 110.4 | 111.9 | 113.0 | 111.7 | 162.7 | | | | | | | |
| 4000 | 95.6 | 98.6 | 100.5 | 101.6 | 105.4 | 104.0 | 106.4 | 105.2 | 108.0 | 109.3 | 108.9 | 116.3 | 162.2 | | | | | | | |
| 5000 | 93.9 | 97.9 | 99.0 | 100.1 | 102.3 | 102.8 | 103.5 | 107.3 | 107.2 | 108.3 | 114.1 | 102.4 | 162.5 | | | | | | | |
| 6300 | 93.2 | 97.0 | 99.0 | 100.7 | 101.9 | 101.4 | 103.3 | 103.2 | 105.5 | 106.8 | 107.0 | 115.2 | 161.1 | | | | | | | |
| 8000 | 90.4 | 95.0 | 97.8 | 98.4 | 99.2 | 99.7 | 100.9 | 101.1 | 104.1 | 106.9 | 106.8 | 113.2 | 160.4 | | | | | | | |
| 10000 | 88.0 | 92.1 | 95.8 | 96.1 | 95.2 | 96.1 | 96.3 | 97.3 | 100.8 | 104.6 | 107.7 | 109.7 | 159.2 | | | | | | | |
| 12500 | 87.4 | 90.5 | 95.1 | 94.3 | 93.9 | 94.3 | 93.6 | 94.4 | 100.6 | 105.2 | 107.8 | 107.8 | 160.3 | | | | | | | |
| 16000 | 90.1 | 93.4 | 99.2 | 96.1 | 95.6 | 96.2 | 97.1 | 98.1 | 103.2 | 109.2 | 112.3 | 109.2 | 166.6 | | | | | | | |
| OVERALL CALCULATED | 115.4 | 116.6 | 117.2 | 117.3 | 118.2 | 118.4 | 119.6 | 120.7 | 124.0 | 128.6 | 132.6 | 130.0 | 179.7 | | | | | | | |
| PWDB | 124.4 | 126.9 | 127.9 | 128.8 | 130.3 | 130.2 | 132.0 | 132.5 | 135.6 | 138.6 | 140.8 | 142.1 | 137.3 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUNIC RANGE SIZE
 7 795 45.7m(150ft.) ARC FULL-.33m²(513in²)

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (50. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | (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) | (2.96) |
| | | DB | DB | DB | DB | DB | DB | DB | DB | DB | DB | DB | DB | DB |
| FREQ. | | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 |
| NO EGA | | 58.2 | 64.3 | 66.6 | 68.9 | 70.9 | 72.9 | 73.5 | 74.5 | 75.6 | 80.4 | 85.5 | 85.4 | 85.3 |
| SIDELINE 2400. FT. | | 62.4 | 66.1 | 68.4 | 69.2 | 71.0 | 72.7 | 73.5 | 74.5 | 77.2 | 82.9 | 87.6 | 88.0 | 84.7 |
| (731.52 M) | | 62.7 | 65.8 | 68.7 | 70.0 | 71.7 | 73.5 | 75.0 | 76.7 | 80.4 | 86.1 | 90.5 | 89.1 | 84.4 |
| NFA (1. RFM) | | 63.9 | 67.3 | 69.4 | 71.2 | 73.0 | 74.2 | 76.2 | 78.2 | 82.2 | 87.4 | 91.5 | 90.8 | 85.2 |
| (C. RAD/SEC) | | 60.5 | 68.9 | 70.6 | 72.1 | 74.1 | 76.1 | 77.4 | 79.1 | 83.6 | 89.0 | 93.0 | 91.5 | 85.6 |
| NFK (1. RPM) | | 69.1 | 72.3 | 73.7 | 75.3 | 76.1 | 77.1 | 78.6 | 80.1 | 84.9 | 88.9 | 92.9 | 90.9 | 85.5 |
| (C. RAD/SEC) | | 70.7 | 73.9 | 75.9 | 76.0 | 76.5 | 78.3 | 79.8 | 81.0 | 84.9 | 88.8 | 93.2 | 91.9 | 84.3 |
| NFD (7500. RPM) | | 77.7 | 78.3 | 77.3 | 76.6 | 76.7 | 78.4 | 78.7 | 80.9 | 85.5 | 88.6 | 93.8 | 90.5 | 82.3 |
| (785. RAD/SEC) | | 80.2 | 81.2 | 79.9 | 78.4 | 77.9 | 80.2 | 81.4 | 85.7 | 88.6 | 92.6 | 87.8 | 78.2 | |
| AIREFLOW RATIO | | 76.4 | 80.1 | 82.0 | 83.1 | 82.5 | 79.7 | 80.0 | 81.6 | 85.7 | 88.5 | 91.0 | 84.5 | 75.8 |
| WFAWM 4.63 | | 74.5 | 78.1 | 80.0 | 81.2 | 83.3 | 83.1 | 80.8 | 81.9 | 85.0 | 88.4 | 88.8 | 82.8 | 73.3 |
| VEHICLE | CELL41 | 72.1 | 75.4 | 77.9 | 78.7 | 80.0 | 82.1 | 82.0 | 82.2 | 83.9 | 85.6 | 86.2 | 79.7 | 69.6 |
| CONFIG | NC54 | 69.9 | 74.1 | 76.5 | 78.1 | 79.0 | 80.3 | 81.5 | 82.3 | 83.3 | 85.8 | 84.3 | 78.0 | 67.2 |
| LOC | C41 ANECH CH | 67.7 | 72.2 | 74.9 | 76.6 | 78.8 | 80.1 | 81.0 | 81.8 | 82.7 | 84.8 | 82.6 | 75.9 | 66.2 |
| DATE | G6-10-76 | 65.5 | 69.5 | 72.8 | 74.7 | 77.2 | 78.3 | 79.7 | 80.2 | 81.0 | 82.2 | 80.2 | 72.3 | 62.0 |
| RUN CONF7CONISTA | | 61.8 | 68.5 | 70.5 | 72.9 | 75.7 | 78.1 | 78.9 | 78.7 | 79.0 | 79.0 | 76.5 | 69.2 | 57.2 |
| TAPE | XG7950 | 56.4 | 63.6 | 67.2 | 70.0 | 72.2 | 72.8 | 74.4 | 74.4 | 74.9 | 74.6 | 71.9 | 63.5 | 49.9 |
| FAN TIP SPEED | | 50.1 | 58.0 | 62.4 | 66.3 | 69.1 | 68.8 | 71.1 | 69.6 | 70.7 | 69.1 | 65.4 | 56.2 | 39.4 |
| FT/SEC | | 40.0 | 49.2 | 54.9 | 58.4 | 63.5 | 62.5 | 64.5 | 62.0 | 62.4 | 59.8 | 53.3 | 50.3 | 19.0 |
| | | 33.6 | 44.6 | 50.0 | 53.8 | 57.5 | 57.9 | 58.0 | 57.1 | 58.3 | 53.9 | 48.0 | 42.0 | 7.0 |
| | | 19.2 | 32.2 | 39.9 | 45.1 | 48.3 | 48.3 | 49.7 | 47.6 | 46.4 | 42.0 | 33.0 | 25.2 | |
| | | 12.6 | 23.3 | 28.6 | 32.1 | 33.4 | 33.8 | 31.4 | 29.6 | 24.6 | 11.6 | | | |
| | | | | 6.7 | 9.3 | 11.3 | 10.4 | 7.8 | 4.8 | | | | | |
| OVERALL CALCULATED | | 84.3 | 87.0 | 88.6 | 89.3 | 90.3 | 90.8 | 91.4 | 92.5 | 95.4 | 99.5 | 102.7 | 100.4 | 94.4 |
| PHDR | | 89.9 | 93.3 | 95.4 | 96.7 | 98.0 | 98.6 | 99.9 | 100.4 | 102.3 | 104.8 | 107.0 | 103.4 | 95.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **795** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **795** SIZE **FULL-.33m²(513in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROC. DATE - MONTH 8 DAY 25 HR. 21.4
F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDS. NO. | VEHICLE | LOC | DATE | TAPE | BAR | TAMB | TWET | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | PWL | | | | | | | | |
|----------|---------|----------|----------|--------|---------|----------|-----------|-------------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | NO EGA | CELL41 | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 3150 | 88.1 | 92.2 | 94.2 | 94.2 | 95.6 | 96.9 | 98.8 | 99.7 | 103.2 | 108.7 | 115.7 | 118.4 | 119.2 | 163.4 |
| 63 | Q. | NC54 | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 4000 | 90.2 | 94.8 | 93.3 | 94.8 | 97.9 | 99.3 | 100.2 | 101.1 | 105.0 | 112.1 | 118.0 | 120.7 | 120.5 | 165.5 |
| 80 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 1000 | 92.8 | 93.8 | 96.1 | 95.8 | 97.2 | 98.8 | 100.2 | 102.3 | 106.8 | 115.1 | 121.3 | 121.5 | 120.5 | 167.2 |
| 100 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 125 | 93.4 | 94.4 | 95.9 | 96.4 | 98.0 | 99.9 | 102.0 | 103.2 | 108.1 | 117.4 | 122.9 | 123.3 | 121.1 | 168.5 |
| 125 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 1600 | 94.7 | 96.2 | 97.0 | 98.0 | 100.1 | 100.7 | 103.1 | 105.0 | 109.7 | 118.1 | 123.8 | 124.4 | 122.2 | 169.7 |
| 160 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 2000 | 97.5 | 98.0 | 98.3 | 99.3 | 101.1 | 102.2 | 104.6 | 106.3 | 111.5 | 119.1 | 125.0 | 124.7 | 122.7 | 170.6 |
| 200 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 2500 | 104.3 | 105.1 | 104.1 | 104.6 | 104.2 | 104.3 | 106.2 | 107.4 | 111.3 | 118.7 | 125.6 | 125.2 | 123.6 | 171.3 |
| 250 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 3150 | 105.9 | 105.9 | 105.4 | 104.5 | 104.6 | 105.9 | 107.1 | 113.4 | 119.0 | 126.0 | 126.1 | 121.4 | 121.4 | 171.5 |
| 315 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 4000 | 109.3 | 109.8 | 111.1 | 110.4 | 108.5 | 105.8 | 107.5 | 109.6 | 113.6 | 118.9 | 125.4 | 122.3 | 116.3 | 173.8 |
| 400 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 5000 | 107.4 | 108.5 | 109.5 | 110.2 | 111.3 | 110.0 | 108.1 | 109.5 | 114.2 | 118.0 | 124.0 | 114.7 | 114.7 | 169.4 |
| 630 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 8000 | 107.2 | 107.7 | 108.2 | 108.5 | 110.3 | 111.0 | 110.3 | 110.3 | 114.7 | 119.3 | 123.3 | 119.2 | 114.2 | 169.0 |
| 800 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 10000 | 105.7 | 107.3 | 108.1 | 107.8 | 108.2 | 109.3 | 111.2 | 111.3 | 114.6 | 119.2 | 121.1 | 117.3 | 111.5 | 167.9 |
| 1000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 12500 | 104.8 | 106.8 | 107.9 | 108.9 | 109.7 | 110.3 | 111.5 | 112.2 | 116.2 | 118.5 | 120.2 | 116.4 | 110.9 | 167.3 |
| 1250 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 16000 | 104.0 | 106.3 | 106.9 | 108.6 | 110.2 | 110.5 | 111.9 | 111.6 | 114.6 | 117.0 | 118.4 | 115.0 | 111.5 | 167.2 |
| 2000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 25000 | 102.6 | 105.5 | 106.6 | 108.0 | 110.6 | 110.0 | 110.9 | 111.8 | 114.1 | 116.0 | 117.6 | 114.7 | 111.5 | 166.8 |
| 3150 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 40000 | 101.1 | 104.6 | 105.5 | 107.4 | 109.0 | 109.3 | 111.7 | 109.6 | 112.2 | 113.9 | 116.0 | 113.6 | 110.8 | 165.1 |
| 4000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 50000 | 100.2 | 103.7 | 104.7 | 107.1 | 109.1 | 109.5 | 111.1 | 109.4 | 111.9 | 113.2 | 115.5 | 113.5 | 110.7 | 165.0 |
| 5000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 6300 | 98.4 | 101.2 | 102.6 | 104.4 | 108.2 | 107.5 | 110.2 | 107.8 | 110.3 | 110.6 | 111.7 | 108.2 | 115.1 | 163.5 |
| 8000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 10000 | 96.4 | 99.9 | 101.1 | 103.1 | 105.8 | 105.5 | 107.5 | 105.8 | 108.4 | 108.7 | 110.7 | 108.8 | 111.8 | 162.3 |
| 12500 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 16000 | 93.3 | 97.9 | 100.6 | 101.6 | 103.9 | 103.9 | 105.9 | 103.6 | 107.6 | 108.9 | 110.5 | 108.6 | 111.2 | 162.4 |
| 20000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 25000 | 90.2 | 94.9 | 98.9 | 98.9 | 101.5 | 101.6 | 102.4 | 100.8 | 104.6 | 107.4 | 111.3 | 106.0 | 108.4 | 161.9 |
| 31500 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 40000 | 88.9 | 93.4 | 98.0 | 97.7 | 101.0 | 101.1 | 101.0 | 100.2 | 104.3 | 108.1 | 111.7 | 103.4 | 106.9 | 163.5 |
| 50000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 63000 | 91.0 | 95.1 | 101.5 | 99.4 | 104.8 | 104.9 | 106.1 | 101.3 | 105.8 | 111.8 | 116.3 | 107.2 | 109.5 | 173.3 |
| 80000 | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | 100000 | 117.5 | 118.7 | 119.3 | 119.9 | 121.1 | 121.1 | 122.3 | 122.4 | 125.9 | 130.5 | 135.6 | 134.5 | 131.9 | 182.0 |
| PNDB | Q. | ANECH CH | 06-10-76 | X07960 | 29.4 HG | 68 DEG F | 293 DEG K | 13.18 GM/MS | | 126.8 | 129.4 | 130.2 | 131.7 | 133.4 | 133.6 | 135.1 | 134.4 | 137.4 | 140.2 | 143.6 | 141.5 | 140.6 | |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 1 TEST POINT 796 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 25 HR. 21.4

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | O. C. (C.)(C.)(C.)(C.)(C.)(C.) | | | | | | |
|--|-------|---|------|------|------|-------|-------|--------------------------------|-------|-------|-------|-------|-------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | | | | | | | |
| 63 | 50 | 62.0 | 65.6 | 68.6 | 69.4 | 71.2 | 72.7 | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 30 | 63 | 64.4 | 67.1 | 70.4 | 70.9 | 73.5 | 75.0 | 74.4 | 74.9 | 76.2 | 79.5 | 85.4 | 89.8 | 90.2 |
| 100 | 80 | 64.9 | 67.6 | 70.2 | 71.5 | 73.5 | 75.5 | 77.4 | 77.4 | 81.2 | 88.4 | 93.0 | 90.9 | 86.4 |
| 125 | 100 | 66.1 | 69.3 | 71.2 | 73.0 | 75.5 | 76.2 | 78.5 | 80.0 | 83.9 | 91.1 | 95.2 | 93.5 | 87.6 |
| 160 | 125 | 68.7 | 70.9 | 72.3 | 74.1 | 76.4 | 77.6 | 79.9 | 81.1 | 85.6 | 92.0 | 96.3 | 93.5 | 87.8 |
| 200 | 160 | 75.3 | 77.8 | 79.3 | 79.3 | 79.3 | 79.6 | 81.3 | 82.1 | 85.7 | 91.4 | 96.7 | 94.4 | 88.2 |
| 250 | 200 | 76.7 | 78.4 | 79.2 | 79.0 | 79.5 | 81.0 | 82.0 | 83.2 | 87.2 | 91.5 | 96.7 | 94.4 | 85.5 |
| 315 | 250 | 80.4 | 81.8 | 81.3 | 80.1 | 79.4 | 79.9 | 81.2 | 82.6 | 86.8 | 90.9 | 96.3 | 92.3 | 82.5 |
| 400 | 315 | 79.3 | 81.7 | 84.2 | 84.4 | 82.9 | 80.4 | 81.9 | 83.6 | 86.7 | 90.8 | 95.4 | 89.5 | 79.0 |
| 500 | 400 | 76.9 | 79.9 | 82.2 | 83.9 | 85.5 | 84.2 | 82.2 | 83.1 | 87.0 | 90.2 | 93.5 | 87.0 | 76.3 |
| 630 | 500 | 76.0 | 78.6 | 80.5 | 81.7 | 84.0 | 84.8 | 84.0 | 83.4 | 87.0 | 90.2 | 92.1 | 84.8 | 74.5 |
| 800 | 630 | 73.6 | 77.4 | 79.7 | 80.4 | 81.3 | 82.6 | 84.3 | 83.9 | 86.2 | 89.3 | 89.0 | 81.7 | 70.1 |
| 1000 | 800 | 71.9 | 76.6 | 78.8 | 80.6 | 81.0 | 81.5 | 84.1 | 83.0 | 85.0 | 87.1 | 87.5 | 79.5 | 67.4 |
| 1250 | 1000 | 70.2 | 74.9 | 77.7 | 79.8 | 81.3 | 82.1 | 83.0 | 83.1 | 84.5 | 85.6 | 85.1 | 77.1 | 66.0 |
| 1600 | 1250 | 67.5 | 72.8 | 75.3 | 76.2 | 80.5 | 81.1 | 82.3 | 81.2 | 82.8 | 83.5 | 81.9 | 73.8 | 61.7 |
| 2000 | 1600 | 63.8 | 70.0 | 73.3 | 76.1 | 79.5 | 79.1 | 79.7 | 79.9 | 80.8 | 80.5 | 78.8 | 70.5 | 57.2 |
| 2500 | 2000 | 58.9 | 66.3 | 69.7 | 73.3 | 75.7 | 76.3 | 78.4 | 75.4 | 76.5 | 75.7 | 73.9 | 65.0 | 50.2 |
| 3150 | 2500 | 52.7 | 61.0 | 65.0 | 69.3 | 72.4 | 73.1 | 74.4 | 71.6 | 72.2 | 70.4 | 68.0 | 58.0 | 39.7 |
| 4000 | 3150 | 42.8 | 51.7 | 57.0 | 61.2 | 66.3 | 66.1 | 68.3 | 64.6 | 64.7 | 61.1 | 56.1 | 42.1 | 28.6 |
| 5000 | 4000 | 36.4 | 47.2 | 51.9 | 55.9 | 60.8 | 61.5 | 61.8 | 59.7 | 60.4 | 55.5 | 51.6 | 33.3 | 17.3 |
| 6300 | 5000 | 22.3 | 35.1 | 42.0 | 47.5 | 52.2 | 52.5 | 53.8 | 50.3 | 49.3 | 43.9 | 36.6 | 18.9 | |
| 8000 | 6300 | 15.6 | 26.0 | 31.9 | 36.8 | 37.6 | 37.6 | 38.8 | 33.8 | 33.1 | 26.6 | 15.4 | 0.6 | |
| 10000 | 8000 | 2.6 | 9.4 | 15.6 | 16.8 | 16.5 | 11.4 | 8.6 | 0.6 | | | | | |
| 12500 | 10000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 86.5 | 89.1 | 90.7 | 91.7 | 92.7 | 92.9 | 93.7 | 94.2 | 97.2 | 101.7 | 105.6 | 102.6 | 96.3 |
| PND8 | | 91.8 | 95.3 | 97.7 | 99.0 | 101.1 | 101.3 | 102.4 | 102.1 | 104.1 | 106.8 | 109.8 | 105.5 | 97.4 |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **796** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE. **FULL - 33m²(513in²)** SIZE

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
 F. 70 PERCENT REL. HUM. DAY - JENOTS)

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

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200.
 FREQ. (C.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)(3.0)(3.2)(3.5)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 100 | 84.4 | 92.4 | 89.7 | 91.7 | 93.0 | 92.4 | 92.8 | 93.5 | 94.7 | 95.0 | 94.7 | 95.0 | 99.7 | 100.1 | 103.7 | | | | 137.6 |
| 125 | 83.3 | 87.6 | 83.4 | 90.4 | 92.2 | 93.9 | 94.2 | 94.7 | 93.4 | 92.2 | 94.7 | 93.4 | 92.2 | 101.1 | 103.6 | 105.4 | | | 138.8 |
| 160 | 84.1 | 85.7 | 89.7 | 89.7 | 90.5 | 90.7 | 89.5 | 92.5 | 92.5 | 97.0 | 97.0 | 102.7 | 104.9 | 107.7 | | | | | 139.9 |
| 200 | 84.5 | 85.5 | 87.8 | 89.6 | 90.2 | 91.0 | 92.4 | 94.8 | 95.8 | 99.9 | 104.6 | 109.5 | 111.8 | | | | | | 143.4 |
| 315 | 83.8 | 87.6 | 89.5 | 89.1 | 90.2 | 92.1 | 94.5 | 96.6 | 97.3 | 100.9 | 108.6 | 112.0 | 114.1 | | | | | | 145.9 |
| 400 | 87.9 | 90.7 | 88.4 | 91.5 | 94.1 | 94.7 | 95.1 | 97.0 | 99.2 | 103.8 | 111.0 | 114.6 | 115.9 | | | | | | 148.2 |
| 500 | 88.8 | 89.8 | 91.7 | 91.5 | 92.9 | 94.8 | 96.2 | 98.6 | 103.3 | 108.1 | 114.6 | 117.5 | 117.0 | | | | | | 149.6 |
| 630 | 90.1 | 91.6 | 92.1 | 93.2 | 94.3 | 95.9 | 97.5 | 99.7 | 103.1 | 108.7 | 114.2 | 117.6 | 117.4 | | | | | | 150.7 |
| 800 | 92.1 | 92.7 | 93.4 | 94.5 | 96.3 | 97.2 | 98.5 | 101.2 | 104.7 | 110.2 | 113.9 | 117.6 | 117.7 | | | | | | 151.1 |
| 1000 | 97.2 | 97.0 | 97.5 | 98.3 | 98.1 | 98.5 | 99.9 | 102.0 | 105.0 | 110.6 | 114.0 | 116.2 | 118.0 | | | | | | 150.9 |
| 1250 | 102.5 | 99.8 | 99.6 | 98.4 | 97.7 | 99.6 | 100.7 | 103.4 | 106.1 | 111.2 | 113.4 | 116.8 | 117.6 | | | | | | 151.1 |
| 1600 | 105.9 | 105.2 | 103.9 | 103.0 | 100.1 | 100.2 | 100.3 | 103.0 | 106.7 | 111.0 | 114.0 | 117.7 | 117.9 | | | | | | 151.9 |
| 2000 | 105.4 | 106.0 | 106.7 | 106.0 | 105.9 | 102.7 | 101.9 | 104.0 | 106.7 | 111.1 | 113.8 | 117.7 | 117.5 | | | | | | 152.2 |
| 2500 | 103.5 | 105.1 | 105.9 | 106.9 | 107.0 | 106.1 | 103.7 | 103.9 | 107.9 | 110.2 | 113.4 | 117.6 | 115.6 | | | | | | 152.0 |
| 3150 | 102.5 | 103.6 | 104.3 | 104.6 | 105.7 | 106.6 | 106.5 | 105.9 | 108.8 | 110.7 | 114.6 | 116.8 | 114.1 | | | | | | 151.9 |
| 4000 | 100.8 | 102.3 | 103.6 | 103.6 | 103.5 | 104.3 | 105.5 | 107.1 | 108.1 | 110.2 | 113.7 | 114.1 | 111.1 | | | | | | 150.6 |
| 5000 | 100.2 | 102.0 | 102.8 | 103.5 | 103.4 | 103.7 | 104.6 | 107.3 | 109.0 | 109.6 | 112.8 | 113.0 | 110.5 | | | | | | 150.1 |
| 6300 | 99.5 | 101.6 | 102.9 | 103.1 | 104.2 | 104.8 | 104.9 | 106.1 | 109.4 | 109.5 | 111.9 | 111.5 | 109.6 | | | | | | 149.8 |
| 8000 | 99.5 | 101.1 | 102.2 | 103.9 | 104.0 | 104.4 | 105.3 | 105.7 | 108.9 | 109.1 | 110.5 | 110.6 | 108.4 | | | | | | 149.4 |
| 10000 | 97.7 | 100.8 | 101.7 | 103.2 | 104.5 | 103.8 | 104.5 | 105.7 | 107.9 | 107.6 | 108.8 | 109.6 | 107.8 | | | | | | 148.9 |
| 12500 | 95.9 | 99.6 | 100.0 | 102.5 | 103.3 | 103.4 | 104.3 | 103.4 | 104.8 | 105.0 | 106.6 | 107.4 | 106.4 | | | | | | 147.3 |
| 16000 | 94.2 | 98.3 | 99.0 | 101.6 | 102.7 | 102.8 | 103.7 | 102.4 | 104.2 | 102.7 | 105.1 | 106.1 | 105.0 | | | | | | 145.6 |
| 20000 | 91.7 | 94.6 | 96.5 | 98.1 | 101.6 | 100.4 | 101.6 | 99.4 | 101.2 | 99.8 | 100.9 | 103.3 | 101.9 | | | | | | 143.8 |
| 25000 | 89.1 | 92.2 | 93.1 | 94.9 | 97.4 | 97.4 | 96.9 | 97.3 | 98.9 | 96.4 | 99.1 | 97.9 | 98.7 | | | | | | 143.0 |
| 31500 | 86.8 | 90.2 | 91.2 | 93.6 | 95.3 | 95.3 | 96.0 | 95.1 | 95.7 | 93.1 | 95.8 | 98.6 | 96.8 | | | | | | 144.0 |
| 40000 | 82.1 | 85.8 | 89.0 | 89.9 | 90.5 | 90.5 | 91.7 | 90.4 | 92.0 | 90.2 | 94.5 | 95.3 | 93.8 | | | | | | 142.3 |
| 50000 | 76.9 | 80.4 | 84.5 | 83.8 | 84.6 | 84.6 | 83.7 | 85.8 | 85.7 | 85.6 | 88.6 | 88.9 | | | | | | | 143.1 |
| 63000 | 71.9 | 75.1 | 80.2 | 79.2 | 78.2 | 78.6 | 77.7 | 77.3 | 80.2 | 80.5 | 85.2 | 84.2 | 83.1 | | | | | | 149.1 |
| 80000 | 69.1 | 72.5 | 78.7 | 75.9 | 74.3 | 75.4 | 75.6 | 70.8 | 75.2 | 77.0 | 82.9 | 79.3 | 79.4 | | | | | | 163.6 |

OVERALL MEASURED
 OVERALL CALCULATED

PND: 113.0 113.9 114.5 115.1 115.5 115.8 116.8 119.3 121.9 125.6 128.3 128.2

PND: 125.1 126.4 127.1 127.8 128.0 128.4 128.5 129.7 132.0 134.4 133.3 141.5 139.3

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 797 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

| RDG. NO. | NO EGA | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | PWL |
|--------------------|--------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-----|-----|-----|
| | | | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 85.6 | 89.4 | 91.4 | 91.0 | 92.3 | 93.9 | 96.3 | 98.5 | 99.2 | 102.7 | 110.4 | 113.9 | 115.9 | 159.2 | | | |
| 63 | 87.7 | 92.5 | 90.3 | 93.3 | 95.9 | 96.5 | 96.9 | 98.8 | 101.0 | 105.6 | 112.8 | 116.5 | 117.8 | 161.5 | | | |
| 80 | 89.8 | 92.3 | 93.6 | 93.3 | 94.7 | 95.8 | 96.9 | 99.8 | 102.1 | 108.4 | 115.3 | 118.0 | 118.3 | 162.9 | | | |
| 100 | 90.6 | 91.6 | 93.9 | 93.9 | 94.8 | 96.6 | 98.0 | 100.4 | 103.1 | 110.0 | 116.4 | 119.3 | 118.9 | 164.0 | | | |
| 125 | 92.0 | 93.5 | 94.0 | 95.0 | 96.1 | 97.7 | 99.4 | 101.5 | 105.3 | 110.6 | 116.0 | 119.4 | 119.2 | 164.2 | | | |
| 160 | 94.0 | 94.5 | 95.3 | 96.3 | 98.1 | 99.0 | 100.4 | 103.0 | 106.5 | 112.1 | 115.8 | 119.5 | 119.5 | 164.4 | | | |
| 200 | 99.1 | 98.8 | 99.3 | 100.1 | 103.5 | 106.3 | 108.3 | 109.3 | 110.7 | 112.4 | 115.9 | 119.8 | 119.8 | 164.3 | | | |
| 250 | 104.4 | 101.7 | 101.4 | 100.2 | 99.6 | 101.4 | 102.6 | 105.2 | 107.9 | 113.0 | 115.2 | 118.6 | 119.4 | 164.5 | | | |
| 315 | 107.8 | 107.0 | 105.8 | 104.8 | 101.9 | 102.0 | 102.2 | 104.8 | 108.6 | 112.9 | 115.8 | 119.5 | 119.8 | 165.2 | | | |
| 400 | 107.3 | 107.8 | 108.6 | 107.9 | 107.7 | 104.6 | 103.7 | 105.9 | 108.6 | 112.9 | 115.6 | 119.6 | 119.3 | 165.6 | | | |
| 500 | 105.4 | 107.0 | 107.7 | 108.8 | 108.9 | 108.0 | 105.6 | 105.8 | 109.7 | 112.1 | 115.3 | 119.4 | 117.5 | 165.3 | | | |
| 630 | 104.4 | 105.5 | 106.3 | 106.5 | 107.6 | 108.5 | 108.4 | 107.8 | 110.8 | 112.6 | 116.5 | 118.7 | 116.0 | 165.2 | | | |
| 800 | 102.8 | 104.3 | 105.6 | 105.6 | 105.4 | 106.3 | 107.4 | 109.1 | 110.1 | 112.2 | 115.6 | 118.0 | 113.1 | 163.9 | | | |
| 1000 | 102.1 | 104.0 | 104.7 | 105.5 | 105.3 | 105.7 | 106.6 | 109.3 | 111.0 | 111.6 | 114.8 | 114.9 | 112.5 | 163.4 | | | |
| 1250 | 101.6 | 103.6 | 104.9 | 105.2 | 106.3 | 106.9 | 107.0 | 108.2 | 111.4 | 111.5 | 114.0 | 113.6 | 111.6 | 163.1 | | | |
| 1600 | 101.8 | 103.4 | 104.4 | 106.2 | 106.2 | 106.6 | 107.5 | 107.9 | 111.2 | 111.3 | 112.7 | 112.9 | 110.6 | 162.8 | | | |
| 2000 | 100.2 | 103.3 | 104.1 | 105.6 | 106.9 | 106.3 | 106.9 | 108.1 | 110.4 | 110.0 | 111.2 | 112.0 | 110.3 | 162.2 | | | |
| 2500 | 98.7 | 102.4 | 102.8 | 105.3 | 106.1 | 106.2 | 107.1 | 106.2 | 107.6 | 107.8 | 109.4 | 110.2 | 109.2 | 160.9 | | | |
| 3150 | 97.6 | 101.6 | 102.3 | 103.0 | 106.0 | 106.1 | 107.0 | 105.8 | 107.6 | 106.1 | 108.4 | 109.4 | 108.4 | 160.6 | | | |
| 4000 | 95.8 | 98.6 | 100.5 | 102.1 | 105.6 | 104.5 | 105.6 | 104.5 | 103.5 | 103.9 | 103.0 | 107.4 | 106.0 | 158.9 | | | |
| 5000 | 94.5 | 97.5 | 98.5 | 100.3 | 102.7 | 102.7 | 102.2 | 102.6 | 104.3 | 101.7 | 104.5 | 103.3 | 104.1 | 157.1 | | | |
| 6300 | 93.7 | 97.1 | 98.1 | 100.5 | 102.2 | 102.2 | 102.9 | 102.0 | 102.6 | 100.0 | 102.7 | 105.5 | 103.7 | 157.3 | | | |
| 8000 | 91.3 | 95.0 | 98.2 | 99.2 | 99.8 | 99.8 | 101.0 | 99.7 | 101.3 | 99.5 | 103.7 | 104.5 | 103.0 | 156.9 | | | |
| 10000 | 89.2 | 92.7 | 96.4 | 96.8 | 96.1 | 96.9 | 96.7 | 96.0 | 98.1 | 98.0 | 103.6 | 101.0 | 101.2 | 155.6 | | | |
| 12500 | 88.7 | 91.9 | 97.0 | 96.0 | 95.0 | 95.4 | 94.5 | 94.0 | 97.3 | 97.3 | 102.0 | 101.0 | 99.9 | 156.4 | | | |
| 16000 | 92.2 | 95.6 | 101.8 | 98.0 | 97.4 | 98.5 | 98.7 | 94.0 | 98.3 | 100.1 | 106.0 | 102.4 | 102.5 | 162.4 | | | |
| OVERALL CALCULATED | 115.1 | 116.1 | 116.9 | 117.5 | 118.0 | 117.9 | 118.3 | 119.1 | 121.6 | 123.9 | 127.6 | 130.2 | 129.9 | 176.9 | | | |
| PWDB | 124.3 | 126.9 | 127.8 | 129.4 | 130.3 | 130.3 | 131.0 | 130.8 | 133.0 | 133.7 | 136.3 | 137.9 | 137.1 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 797 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | 0. | 0. | 0. | 0. | | | | |
|----------------------------------|---|------|------|------|------|------|------|------|------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | |
| SIDELINE 2400. FT.
(731.52 M) | 50 | 57.5 | 62.8 | 65.9 | 66.2 | 67.9 | 69.7 | 71.9 | 73.7 | 76.1 | 82.3 | 83.4 | 82.0 |
| NFA (G. RAD/SEC) | 80 | 61.4 | 65.6 | 67.9 | 68.4 | 70.2 | 71.5 | 72.5 | 74.9 | 76.4 | 81.6 | 87.0 | 84.1 |
| NFK (G. RAD/SEC) | 100 | 62.2 | 64.8 | 67.2 | 69.0 | 70.5 | 72.2 | 73.5 | 75.5 | 77.4 | 83.1 | 88.0 | 84.5 |
| NFD 7500. RPM | 125 | 63.4 | 66.5 | 68.2 | 70.0 | 71.5 | 73.2 | 74.7 | 76.5 | 79.2 | 83.6 | 87.5 | 84.5 |
| AIRFLOW RATIO | 160 | 65.2 | 67.4 | 69.3 | 71.1 | 73.4 | 74.4 | 75.6 | 77.9 | 80.6 | 85.0 | 87.0 | 84.5 |
| WE/FWM 4.63 | 200 | 70.1 | 71.6 | 73.3 | 74.8 | 75.1 | 75.6 | 76.8 | 78.6 | 80.8 | 85.2 | 86.9 | 84.5 |
| VEHICLE CELL41 | 250 | 75.2 | 74.2 | 75.2 | 74.7 | 74.5 | 76.5 | 77.5 | 79.7 | 81.7 | 85.5 | 86.0 | 83.6 |
| LOC C41 ANECH CH | 315 | 78.2 | 79.3 | 79.3 | 79.1 | 76.7 | 76.9 | 77.9 | 79.1 | 82.0 | 85.1 | 86.3 | 83.3 |
| DATE 06-08-76 | 400 | 77.3 | 79.7 | 81.8 | 81.9 | 82.2 | 79.2 | 78.2 | 79.9 | 81.8 | 84.8 | 85.7 | 82.0 |
| RUN CONF7TEMPDEP | 500 | 74.9 | 78.4 | 80.5 | 82.4 | 83.0 | 82.3 | 79.7 | 79.4 | 82.5 | 83.5 | 84.8 | 86.0 |
| TAPE XC0797D | 630 | 73.2 | 76.3 | 78.5 | 79.7 | 81.3 | 82.3 | 82.1 | 81.0 | 83.0 | 83.5 | 84.3 | 76.3 |
| FAN TIP SPEED FT/SEC | 800 | 70.6 | 74.4 | 77.2 | 78.2 | 78.6 | 79.6 | 80.6 | 81.7 | 81.7 | 82.3 | 83.5 | 71.6 |
| OVERALL CALCULATED | 1000 | 69.0 | 73.2 | 75.6 | 77.4 | 77.8 | 78.3 | 79.0 | 81.1 | 81.8 | 80.8 | 81.6 | 78.0 |
| PNDB | 1250 | 67.0 | 71.7 | 74.8 | 76.1 | 77.8 | 78.6 | 78.6 | 79.1 | 81.3 | 79.6 | 79.4 | 65.5 |
| | 1600 | 65.3 | 69.8 | 72.8 | 75.8 | 76.6 | 77.1 | 77.8 | 77.6 | 79.6 | 77.8 | 76.2 | 60.8 |
| | 2000 | 61.4 | 67.8 | 70.8 | 73.7 | 75.8 | 75.4 | 75.8 | 76.2 | 77.1 | 74.6 | 72.4 | 56.0 |
| | 2500 | 56.5 | 64.2 | 67.1 | 71.1 | 72.8 | 73.2 | 73.8 | 72.0 | 71.8 | 69.5 | 67.3 | 48.5 |
| | 3150 | 50.0 | 58.9 | 62.6 | 67.2 | 69.3 | 69.7 | 70.3 | 68.0 | 67.9 | 63.4 | 60.9 | 37.4 |
| | 4000 | 40.2 | 49.2 | 54.9 | 58.9 | 63.8 | 63.0 | 63.8 | 60.3 | 59.7 | 54.4 | 49.3 | 19.5 |
| | 5000 | 34.2 | 44.2 | 49.5 | 53.9 | 57.8 | 58.3 | 57.3 | 56.3 | 55.2 | 48.3 | 44.2 | 8.6 |
| | 6300 | 19.6 | 32.3 | 39.0 | 44.9 | 48.6 | 49.1 | 49.2 | 46.4 | 43.5 | 35.2 | 28.6 | 15.6 |
| | 8000 | 12.7 | 23.7 | 29.5 | 32.6 | 33.5 | 33.9 | 30.0 | 26.8 | 17.1 | 8.6 | | |
| | 10000 | 0.3 | 7.4 | 10.2 | 12.2 | 10.8 | 6.5 | 2.1 | | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | 84.1 | 86.4 | 88.2 | 89.3 | 90.0 | 90.0 | 90.1 | 91.0 | 92.8 | 95.1 | 97.4 | 94.0 |
| | PNDB | 89.4 | 92.8 | 95.1 | 96.6 | 97.8 | 97.9 | 98.3 | 98.6 | 103.0 | 100.4 | 101.4 | 95.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7 797** TEST POINT **ACOUSTIC RANGE** SIZE **FULL-.33m²(513in²)**
 731.5m(2400ft.) SIDELINE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 8 DAY 26 HR. 18.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 90. 90. 100. 110. 120. 130. 140. 150. 160. O. O. O. O. P/L

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | | | | | | | | | | | | | |
| RDG. NO. | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | |
| RADIAL | 125 | 160 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
| VEHICLE | 82.9 | 81.1 | 84.2 | 88.7 | 90.7 | 92.0 | 91.2 | 91.3 | 92.5 | 93.4 | 94.0 | 98.7 | 99.1 |
| CONFIG | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| LOC | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| DATE | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| RUN | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| TAPE | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| BAR | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| TAMB | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| TWET | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| HACT | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| FREQ. | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| SHIFT | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| DIAMETER RATIO | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| DF/DH | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 |
| OVERALL MEASURED | 112.5 | 113.0 | 113.2 | 113.9 | 114.4 | 114.4 | 114.2 | 114.7 | 116.1 | 118.5 | 121.1 | 124.5 | 126.9 |
| OVERALL CALCULATED | 125.2 | 126.0 | 125.1 | 126.8 | 127.3 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.7 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 798 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

| NO | VEHICLE | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | |
|--------------------|---------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 63 | 86.2 | 91.3 | 89.5 | 91.8 | 94.7 | 95.3 | 96.2 | 97.8 | 100.5 | 104.6 | 111.3 | 115.5 | 117.0 | 157.9 | |
| 80 | 88.3 | 91.0 | 93.1 | 92.1 | 93.4 | 94.8 | 95.9 | 98.8 | 101.8 | 107.6 | 114.3 | 117.0 | 116.8 | 160.5 | |
| 100 | 88.6 | 90.4 | 91.4 | 92.4 | 93.5 | 95.9 | 96.5 | 99.2 | 102.4 | 109.2 | 114.9 | 113.1 | 117.9 | 161.8 | |
| 125 | 90.7 | 92.0 | 92.7 | 94.5 | 95.6 | 96.7 | 98.1 | 100.8 | 104.2 | 110.1 | 114.8 | 117.9 | 117.5 | 162.8 | |
| 160 | 92.2 | 93.0 | 94.3 | 95.3 | 96.6 | 98.0 | 99.1 | 102.0 | 106.0 | 111.1 | 115.3 | 118.0 | 117.5 | 163.1 | |
| 200 | 95.9 | 95.8 | 96.8 | 97.9 | 98.0 | 98.8 | 100.2 | 102.6 | 105.8 | 111.7 | 114.1 | 116.3 | 117.8 | 162.6 | |
| 250 | 97.9 | 97.4 | 98.4 | 98.7 | 99.1 | 100.4 | 101.3 | 104.0 | 106.9 | 112.3 | 114.2 | 117.1 | 117.7 | 163.0 | |
| 315 | 106.5 | 104.5 | 101.8 | 99.6 | 99.6 | 101.0 | 101.2 | 104.3 | 108.1 | 112.1 | 114.6 | 117.5 | 118.0 | 163.6 | |
| 400 | 107.3 | 106.6 | 106.6 | 105.4 | 103.2 | 101.1 | 102.2 | 104.6 | 108.1 | 111.7 | 114.6 | 117.8 | 117.6 | 164.0 | |
| 500 | 106.4 | 107.5 | 107.2 | 108.0 | 107.4 | 104.7 | 103.4 | 105.0 | 109.0 | 111.6 | 114.3 | 117.7 | 115.7 | 164.0 | |
| 630 | 104.9 | 105.7 | 106.0 | 106.8 | 107.6 | 108.0 | 105.6 | 106.3 | 109.2 | 111.8 | 115.3 | 117.7 | 114.0 | 164.1 | |
| 800 | 103.0 | 103.3 | 104.8 | 105.1 | 105.7 | 105.8 | 107.4 | 107.1 | 108.3 | 111.7 | 114.4 | 114.8 | 111.6 | 162.8 | |
| 1000 | 102.4 | 103.2 | 103.7 | 105.2 | 105.3 | 105.7 | 106.3 | 109.0 | 109.2 | 110.6 | 113.8 | 113.9 | 111.2 | 162.5 | |
| 1250 | 102.0 | 102.9 | 103.2 | 104.4 | 106.0 | 106.1 | 106.5 | 108.4 | 110.9 | 110.0 | 113.0 | 112.6 | 110.9 | 162.3 | |
| 1600 | 101.2 | 102.3 | 102.1 | 103.9 | 105.7 | 105.8 | 106.7 | 108.4 | 110.6 | 110.0 | 111.9 | 111.6 | 109.6 | 161.9 | |
| 2000 | 100.1 | 103.0 | 103.3 | 104.3 | 105.1 | 105.0 | 106.1 | 107.6 | 110.1 | 109.0 | 110.7 | 111.3 | 108.7 | 161.3 | |
| 2500 | 98.6 | 101.4 | 102.8 | 104.0 | 104.8 | 104.9 | 105.8 | 106.1 | 107.8 | 107.2 | 108.6 | 109.7 | 107.9 | 160.2 | |
| 3150 | 97.3 | 99.5 | 100.7 | 103.7 | 105.2 | 104.3 | 105.7 | 105.0 | 107.0 | 105.5 | 107.9 | 109.4 | 106.8 | 159.7 | |
| 4000 | 95.5 | 97.5 | 98.9 | 100.8 | 104.3 | 103.1 | 104.5 | 102.3 | 104.7 | 102.7 | 104.6 | 106.3 | 105.4 | 157.9 | |
| 5000 | 94.1 | 96.9 | 97.3 | 99.1 | 101.1 | 101.0 | 101.3 | 102.0 | 103.6 | 100.7 | 104.0 | 103.3 | 102.7 | 156.2 | |
| 5300 | 93.0 | 96.1 | 98.1 | 99.3 | 101.3 | 100.2 | 101.4 | 100.0 | 102.1 | 99.5 | 101.9 | 105.3 | 103.0 | 156.2 | |
| 8000 | 90.8 | 93.9 | 97.1 | 97.9 | 98.4 | 98.9 | 99.4 | 98.1 | 100.1 | 98.5 | 101.8 | 104.4 | 102.5 | 155.7 | |
| 10000 | 88.3 | 91.5 | 95.3 | 95.3 | 94.6 | 95.2 | 95.5 | 94.5 | 96.8 | 95.9 | 101.0 | 100.4 | 99.0 | 154.0 | |
| 12500 | 87.9 | 91.0 | 95.5 | 94.3 | 93.1 | 93.7 | 92.8 | 92.1 | 94.7 | 95.2 | 102.2 | 98.5 | 98.0 | 155.0 | |
| 16000 | 91.2 | 94.2 | 100.5 | 97.3 | 96.2 | 96.8 | 97.3 | 92.0 | 97.0 | 96.7 | 105.4 | 100.7 | 99.8 | 161.0 | |
| OVERALL CALCULATED | | | 114.6 | 115.2 | 115.6 | 116.2 | 116.9 | 116.7 | 117.2 | 118.3 | 120.8 | 123.1 | 126.5 | 128.8 | 128.3 |
| -NDB | | | 123.9 | 125.7 | 126.7 | 128.0 | 129.2 | 128.8 | 129.7 | 130.1 | 132.3 | 132.8 | 135.4 | 137.1 | 135.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **798** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-.33m²(513in²)** SIZE

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|----------------------------------|---|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | 40. (0.75) | 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) | O. (O.) (O.) (O.) (O.) (O.) (O.) (O.) |
| NFA (1. RPM) | 56.2 | 61.8 | 64.2 | 65.7 | 66.4 | 68.7 | 70.7 | 72.2 | 72.7 | 75.1 | 81.0 | 81.9 | 80.8 | |
| MFA (0. RAD/SEC) | 58.0 | 64.6 | 67.4 | 67.2 | 69.0 | 71.0 | 71.7 | 73.0 | 73.9 | 76.2 | 80.9 | 86.0 | 86.4 | 82.6 |
| NFK (1. RPM) | 60.2 | 63.6 | 65.7 | 67.5 | 69.0 | 71.5 | 72.0 | 74.2 | 76.2 | 78.4 | 83.1 | 86.2 | 87.0 | 83.5 |
| MFK (0. RAD/SEC) | 62.1 | 65.0 | 66.9 | 69.5 | 71.0 | 73.4 | 74.4 | 76.9 | 78.4 | 80.1 | 84.0 | 86.5 | 86.8 | 82.5 |
| NFD (7500. RPM) | 66.9 | 68.6 | 70.8 | 72.6 | 73.1 | 74.1 | 75.3 | 77.3 | 79.8 | 84.4 | 85.2 | 84.9 | 82.5 | |
| MFD (765. RAD/SEC) | 68.7 | 70.0 | 72.2 | 73.2 | 74.0 | 75.5 | 76.3 | 78.5 | 80.7 | 84.8 | 85.0 | 85.4 | 81.8 | |
| AIRFLOW RATIO WF/WM 4.63 | 77.0 | 76.8 | 75.3 | 73.9 | 74.4 | 75.9 | 75.9 | 78.6 | 81.5 | 84.4 | 85.0 | 85.3 | 81.5 | |
| VEHICLE CONFIG LOC C41 ANECH CH | 75.9 | 78.9 | 80.0 | 81.6 | 81.5 | 79.0 | 77.5 | 78.6 | 81.3 | 83.6 | 84.6 | 85.0 | 80.2 | |
| DATE 06-08-76 | 73.7 | 76.6 | 78.3 | 79.9 | 81.3 | 81.8 | 79.3 | 79.4 | 81.5 | 82.7 | 84.1 | 83.3 | 74.3 | |
| TAPE RUN CONFTEMPDEP | 70.9 | 73.4 | 76.4 | 77.7 | 78.8 | 79.1 | 80.6 | 79.7 | 79.9 | 81.8 | 82.3 | 79.2 | 70.1 | |
| FAN-TIP SPEED FT/SEC | 69.2 | 72.4 | 74.5 | 77.1 | 77.8 | 78.3 | 80.8 | 80.8 | 80.0 | 79.8 | 80.6 | 77.0 | 67.7 | |
| | 67.5 | 70.9 | 73.0 | 75.4 | 77.6 | 77.9 | 78.1 | 79.4 | 83.7 | 78.1 | 78.4 | 73.9 | 64.8 | |
| | 64.7 | 68.8 | 70.5 | 73.5 | 76.0 | 76.4 | 77.0 | 78.0 | 79.0 | 76.5 | 75.5 | 70.4 | 59.8 | |
| | 61.3 | 67.6 | 70.1 | 72.4 | 74.0 | 74.1 | 75.0 | 72.0 | 72.0 | 69.0 | 66.5 | 61.1 | 47.2 | |
| | 56.5 | 63.1 | 67.0 | 69.8 | 71.5 | 71.9 | 72.5 | 67.2 | 67.3 | 62.8 | 60.3 | 53.8 | 35.8 | |
| | 49.7 | 56.8 | 61.1 | 65.9 | 68.5 | 67.9 | 69.0 | 67.2 | 67.3 | 62.8 | 60.3 | 53.8 | 35.8 | |
| | 39.8 | 48.1 | 53.3 | 57.6 | 62.4 | 61.6 | 62.6 | 59.1 | 59.1 | 53.3 | 49.0 | 40.2 | 18.9 | |
| | 33.8 | 43.5 | 48.3 | 52.8 | 56.4 | 56.6 | 56.4 | 55.6 | 54.6 | 47.4 | 43.7 | 31.2 | 7.2 | |
| | 18.9 | 31.3 | 39.0 | 43.7 | 47.6 | 47.2 | 47.7 | 44.5 | 43.0 | 34.7 | 27.8 | 15.3 | | |
| | 11.6 | 23.6 | 28.1 | 31.3 | 32.6 | 32.6 | 32.3 | 28.4 | 25.6 | 16.2 | 6.7 | | | |
| | 5.9 | 8.8 | 10.5 | 9.6 | 5.0 | 10.5 | 9.6 | 5.0 | 5.0 | 16.2 | 6.7 | | | |
| OVERALL CALCULATED | 83.3 | 85.3 | 86.7 | 88.0 | 88.7 | 88.8 | 88.9 | 90.1 | 91.9 | 94.3 | 96.3 | 96.4 | 92.5 | |
| | 88.9 | 91.7 | 93.5 | 95.4 | 96.5 | 96.7 | 97.2 | 98.0 | 99.3 | 99.4 | 100.4 | 99.6 | 93.9 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 798 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

| RDG. NO. | NO. EGA | FULL SCALE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | PROC. DATE - MONTH & DAY 26 HR. 18.5 | | | | | |
|--------------------|---------|----------------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|--------------------------------------|-------|-------|----|----|-----|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | O. | G. | PUL |
| 50 | 83.4 | 86.7 | 89.0 | 91.3 | 93.4 | 94.3 | 95.7 | 97.4 | 101.5 | 108.2 | 111.1 | 112.9 | 156.6 | | | | |
| 63 | 85.2 | 88.0 | 90.5 | 92.4 | 94.0 | 94.9 | 98.1 | 100.6 | 106.4 | 113.1 | 115.0 | 115.3 | 158.8 | | | | |
| 80 | 87.0 | 89.3 | 91.1 | 92.4 | 94.0 | 94.9 | 98.4 | 101.6 | 108.5 | 113.4 | 116.1 | 116.1 | 160.2 | | | | |
| 100 | 87.4 | 88.9 | 90.4 | 91.4 | 92.5 | 94.9 | 97.1 | 99.8 | 102.7 | 103.3 | 112.8 | 116.2 | 161.1 | | | | |
| 125 | 89.2 | 90.5 | 91.2 | 92.8 | 94.4 | 97.0 | 98.6 | 100.8 | 104.5 | 109.8 | 113.5 | 116.0 | 161.0 | | | | |
| 160 | 90.7 | 92.0 | 92.5 | 94.5 | 95.6 | 96.7 | 98.3 | 99.0 | 102.1 | 105.3 | 110.2 | 112.9 | 163.6 | | | | |
| 200 | 93.3 | 93.8 | 95.3 | 95.6 | 96.7 | 96.8 | 99.2 | 100.1 | 102.7 | 105.4 | 110.2 | 114.6 | 115.1 | | | | |
| 250 | 92.9 | 93.9 | 96.2 | 96.7 | 96.8 | 98.2 | 99.5 | 100.2 | 103.1 | 106.5 | 110.4 | 112.1 | 115.6 | | | | |
| 315 | 96.5 | 97.0 | 95.8 | 97.6 | 98.7 | 98.7 | 99.3 | 101.0 | 103.9 | 105.6 | 110.4 | 112.1 | 115.6 | | | | |
| 400 | 98.1 | 98.1 | 98.4 | 97.6 | 98.7 | 99.3 | 101.0 | 103.9 | 105.6 | 110.4 | 112.1 | 115.6 | 161.5 | | | | |
| 500 | 98.9 | 99.5 | 99.7 | 100.5 | 100.1 | 100.2 | 101.1 | 104.0 | 108.5 | 110.1 | 112.3 | 115.4 | 112.7 | | | | |
| 630 | 99.2 | 99.7 | 100.0 | 100.3 | 101.9 | 101.5 | 101.9 | 104.8 | 108.5 | 110.6 | 113.5 | 115.4 | 160.7 | | | | |
| 800 | 97.5 | 98.0 | 98.8 | 99.8 | 100.7 | 101.5 | 102.2 | 105.3 | 107.6 | 110.2 | 112.9 | 113.5 | 109.8 | | | | |
| 1000 | 96.4 | 97.4 | 98.5 | 99.5 | 100.1 | 101.7 | 102.6 | 105.2 | 107.7 | 109.3 | 112.3 | 111.7 | 109.4 | | | | |
| 1250 | 95.8 | 98.1 | 98.7 | 100.2 | 100.7 | 102.4 | 103.2 | 105.4 | 107.9 | 108.5 | 111.2 | 110.8 | 109.1 | | | | |
| 1600 | 96.0 | 96.8 | 97.6 | 100.1 | 102.2 | 102.3 | 103.5 | 105.4 | 107.6 | 108.3 | 109.9 | 110.3 | 108.6 | | | | |
| 2000 | 94.1 | 97.2 | 97.1 | 99.3 | 101.6 | 102.2 | 103.1 | 104.8 | 107.8 | 106.7 | 109.2 | 110.0 | 108.2 | | | | |
| 2500 | 95.6 | 96.4 | 96.8 | 99.2 | 100.3 | 100.6 | 102.8 | 103.1 | 105.0 | 105.0 | 107.6 | 108.2 | 106.9 | | | | |
| 3150 | 92.0 | 95.3 | 96.2 | 99.4 | 100.2 | 100.0 | 102.2 | 102.2 | 105.2 | 103.7 | 106.6 | 107.6 | 105.8 | | | | |
| 4000 | 89.9 | 92.8 | 94.4 | 96.8 | 100.0 | 98.9 | 101.3 | 102.9 | 101.0 | 102.8 | 104.7 | 104.1 | 157.6 | | | | |
| 5000 | 88.1 | 91.9 | 92.3 | 94.8 | 97.1 | 97.3 | 97.6 | 98.2 | 101.6 | 98.5 | 102.0 | 101.1 | 102.1 | | | | |
| 6300 | 87.0 | 90.8 | 92.6 | 95.0 | 96.7 | 96.2 | 98.1 | 97.0 | 99.6 | 96.9 | 100.4 | 103.0 | 101.5 | | | | |
| 8000 | 84.3 | 88.7 | 91.1 | 92.8 | 93.9 | 94.2 | 96.1 | 94.8 | 98.1 | 96.3 | 99.3 | 101.4 | 99.4 | | | | |
| 10000 | 81.0 | 84.7 | 87.3 | 89.5 | 88.9 | 90.2 | 92.5 | 90.7 | 94.3 | 92.9 | 98.7 | 97.7 | 97.0 | | | | |
| 12500 | 79.1 | 82.9 | 87.1 | 87.0 | 86.2 | 87.2 | 91.5 | 88.3 | 92.2 | 91.6 | 98.6 | 96.2 | 95.7 | | | | |
| 16000 | 81.6 | 85.1 | 90.9 | 88.7 | 87.3 | 88.7 | 96.6 | 88.9 | 93.4 | 95.5 | 102.8 | 98.3 | 99.7 | | | | |
| OVERALL CALCULATED | | | 107.9 | 109.2 | 109.8 | 111.1 | 112.3 | 113.0 | 114.2 | 116.1 | 119.2 | 121.6 | 124.7 | 126.4 | | | |
| PNDS | | | 118.3 | 120.6 | 121.4 | 123.6 | 124.8 | 125.1 | 126.7 | 127.6 | 130.9 | 133.8 | 135.1 | 134.1 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **799** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-33m²(513in²)** SIZE

| NO EGA | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--------------------|--------------------------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 53 | (0.70) | (0.87) | (1.05) | (1.22) | (1.39) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) |
| 55.2 | 60.1 | 63.9 | 62.5 | 66.2 | 65.9 | 67.7 | 69.9 | 70.9 | 71.9 | 74.9 | 80.0 | 82.7 | 79.0 |
| 57.0 | 63.9 | 62.5 | 66.2 | 65.9 | 67.7 | 69.9 | 70.9 | 71.9 | 74.9 | 80.0 | 82.7 | 79.0 | 81.2 |
| 58.7 | 62.6 | 65.4 | 66.2 | 68.0 | 69.7 | 70.5 | 73.2 | 74.9 | 79.6 | 84.7 | 84.4 | 81.1 | 81.1 |
| 58.9 | 62.1 | 64.7 | 66.5 | 68.0 | 70.5 | 71.5 | 73.5 | 75.9 | 81.6 | 85.0 | 85.3 | 81.7 | 81.1 |
| 60.6 | 63.5 | 65.4 | 67.7 | 69.7 | 71.2 | 72.5 | 74.7 | 75.9 | 81.4 | 84.2 | 85.3 | 81.1 | 81.1 |
| 62.0 | 64.9 | 66.6 | 69.4 | 70.9 | 72.4 | 73.9 | 75.6 | 78.6 | 82.7 | 84.8 | 84.8 | 80.5 | 80.5 |
| 64.4 | 66.6 | 69.3 | 70.3 | 71.8 | 73.6 | 74.1 | 76.8 | 79.3 | 82.9 | 83.9 | 82.1 | 79.7 | 79.7 |
| 63.7 | 66.5 | 69.9 | 71.2 | 71.8 | 74.3 | 75.0 | 77.2 | 80.2 | 83.0 | 83.0 | 82.9 | 79.3 | 79.3 |
| 67.0 | 69.3 | 69.3 | 70.6 | 72.9 | 74.4 | 74.9 | 77.4 | 80.0 | 82.6 | 82.5 | 82.5 | 79.0 | 79.0 |
| 68.1 | 70.0 | 71.5 | 71.6 | 73.2 | 74.0 | 75.4 | 77.9 | 79.8 | 82.3 | 82.1 | 82.8 | 78.2 | 78.2 |
| 68.4 | 70.9 | 72.5 | 74.1 | 74.2 | 74.5 | 75.2 | 77.6 | 81.3 | 81.5 | 81.7 | 82.2 | 75.8 | 75.8 |
| 68.0 | 70.6 | 72.3 | 73.4 | 75.5 | 75.3 | 75.5 | 77.9 | 80.8 | 81.5 | 82.3 | 81.1 | 73.0 | 73.0 |
| 65.4 | 68.2 | 70.4 | 72.4 | 73.8 | 74.8 | 75.3 | 77.9 | 79.2 | 80.3 | 80.8 | 78.0 | 68.4 | 68.4 |
| 66.7 | 69.3 | 71.3 | 72.5 | 74.3 | 75.0 | 77.1 | 78.5 | 78.5 | 79.1 | 74.7 | 66.0 | 66.0 | 66.0 |
| 61.2 | 66.2 | 68.5 | 71.1 | 72.3 | 74.1 | 74.8 | 76.3 | 77.7 | 76.6 | 76.7 | 72.1 | 63.0 | 63.0 |
| 59.5 | 63.3 | 66.0 | 69.8 | 72.3 | 72.9 | 73.8 | 75.0 | 76.0 | 74.7 | 73.5 | 69.1 | 58.8 | 58.8 |
| 55.3 | 61.8 | 63.8 | 67.4 | 70.5 | 71.3 | 72.0 | 72.9 | 74.6 | 71.3 | 70.4 | 65.8 | 54.0 | 54.0 |
| 51.5 | 58.1 | 61.0 | 65.1 | 67.0 | 67.6 | 69.5 | 69.0 | 70.3 | 66.7 | 65.4 | 59.6 | 46.2 | 46.2 |
| 44.5 | 52.6 | 56.6 | 61.6 | 63.5 | 63.6 | 65.5 | 64.4 | 65.6 | 61.0 | 59.1 | 52.0 | 34.8 | 34.8 |
| 34.3 | 43.3 | 48.8 | 53.6 | 58.1 | 57.4 | 59.4 | 57.1 | 57.3 | 51.5 | 47.2 | 38.7 | 17.7 | 17.7 |
| 27.8 | 38.5 | 43.3 | 48.5 | 52.2 | 52.9 | 52.7 | 51.9 | 52.5 | 45.1 | 41.7 | 29.0 | 6.7 | 6.7 |
| 12.9 | 26.1 | 33.5 | 39.4 | 43.1 | 43.2 | 44.5 | 41.4 | 40.5 | 32.1 | 26.3 | 13.1 | 13.1 | 13.1 |
| 8000 | 6.3 | 16.6 | 23.1 | 26.8 | 27.9 | 29.0 | 25.1 | 23.6 | 13.9 | 6.1 | 6.1 | 6.1 | 6.1 |
| 10000 | | | 0.1 | 3.0 | 5.4 | 6.6 | 1.2 | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 76.3 | 79.2 | 81.1 | 82.8 | 84.4 | 85.5 | 86.3 | 88.4 | 90.7 | 92.9 | 94.5 | 94.3 | 90.5 |
| PNUB | 81.3 | 85.4 | 87.6 | 90.4 | 92.5 | 93.5 | 94.4 | 95.7 | 97.5 | 98.0 | 98.5 | 97.5 | 92.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **799** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PdL
 FREQ. (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)

| NO EGA | RDG. NO. | 0. | 50. | 60. | 70. | 80. | 90.2 | 90.5 | 90.2 | 90.5 | 91.2 | 91.9 | 93.2 | 97.4 | 98.1 | 100.9 |
|--------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| VEHICLE | 100 | 81.1 | 89.9 | 87.2 | 89.2 | 90.2 | 91.4 | 91.7 | 92.7 | 92.7 | 92.7 | 90.6 | 89.9 | 99.1 | 101.3 | 102.4 |
| CONFIG | 125 | 79.8 | 85.1 | 85.9 | 88.4 | 90.2 | 87.4 | 87.0 | 87.0 | 87.0 | 90.4 | 90.4 | 95.2 | 100.2 | 101.9 | 104.7 |
| LDC | 200 | 81.8 | 83.0 | 84.8 | 87.1 | 86.9 | 87.8 | 88.9 | 89.3 | 89.3 | 91.6 | 94.3 | 97.4 | 101.6 | 106.5 | 108.3 |
| DATE | 250 | 81.1 | 84.8 | 86.3 | 86.9 | 87.5 | 89.3 | 91.5 | 93.9 | 95.3 | 98.9 | 105.9 | 109.0 | 110.6 | | |
| RUN | 315 | 82.9 | 87.7 | 85.7 | 88.5 | 91.1 | 91.9 | 92.3 | 94.7 | 97.4 | 97.4 | 101.3 | 107.7 | 111.1 | 112.4 | |
| TAPE | 400 | 84.9 | 87.0 | 88.7 | 88.8 | 90.1 | 91.7 | 93.1 | 95.8 | 98.5 | 104.3 | 110.2 | 112.9 | 112.7 | | |
| BAR | 500 | 85.3 | 86.8 | 88.0 | 89.1 | 90.7 | 92.8 | 93.9 | 96.6 | 99.0 | 106.1 | 110.8 | 114.0 | 114.0 | | |
| (99347. N/M2) | 630 | 87.1 | 88.4 | 89.1 | 90.4 | 92.3 | 93.6 | 95.3 | 97.7 | 101.1 | 106.5 | 110.4 | 113.1 | 113.6 | | |
| TAMB | 800 | 88.4 | 89.4 | 90.2 | 92.2 | 93.5 | 95.4 | 96.3 | 98.9 | 102.4 | 108.0 | 110.9 | 112.9 | 113.7 | | |
| (297. DEG K) | 1000 | 90.7 | 92.2 | 92.7 | 93.8 | 94.6 | 95.7 | 97.4 | 99.8 | 103.0 | 107.8 | 110.0 | 111.4 | 113.2 | | |
| (292. DEG K) | 1250 | 91.0 | 92.1 | 94.1 | 94.6 | 95.0 | 96.8 | 97.5 | 101.1 | 104.3 | 108.7 | 109.4 | 111.3 | 112.8 | | |
| HACT13.52 GM/M3 | 1600 | 93.6 | 94.4 | 93.2 | 94.5 | 95.8 | 96.9 | 98.1 | 100.7 | 104.7 | 108.3 | 109.7 | 111.9 | 113.4 | | |
| FREQ. SHIFT | 2000 | 97.2 | 96.2 | 96.2 | 95.8 | 96.9 | 97.5 | 99.1 | 102.0 | 104.5 | 108.1 | 109.8 | 112.7 | 113.5 | | |
| JET | 2500 | 98.0 | 98.1 | 98.1 | 98.6 | 97.5 | 97.6 | 99.0 | 102.1 | 105.9 | 107.9 | 109.9 | 112.8 | 112.3 | | |
| DIAMETER RATIO | 3150 | 96.0 | 97.1 | 98.1 | 98.9 | 100.4 | 99.4 | 102.6 | 105.8 | 107.7 | 110.1 | 112.5 | 111.1 | | | |
| DF/DH 1.00 | 4000 | 94.3 | 95.1 | 96.1 | 97.4 | 98.7 | 100.1 | 100.0 | 102.9 | 105.1 | 107.2 | 110.2 | 110.6 | 108.3 | | |
| | 5000 | 93.4 | 94.5 | 95.3 | 96.5 | 97.9 | 99.2 | 101.1 | 103.3 | 105.5 | 106.6 | 109.8 | 109.2 | 107.5 | | |
| | 6300 | 92.2 | 94.3 | 96.1 | 97.1 | 97.9 | 100.0 | 101.4 | 103.4 | 105.8 | 106.2 | 108.4 | 108.3 | 107.5 | | |
| | 8000 | 91.3 | 93.1 | 94.4 | 97.2 | 98.7 | 99.3 | 101.2 | 103.4 | 105.7 | 105.5 | 107.0 | 107.1 | 106.3 | | |
| | 12500 | 89.4 | 93.0 | 93.4 | 95.6 | 98.4 | 99.0 | 99.9 | 102.4 | 104.9 | 103.8 | 105.0 | 106.3 | 105.8 | | |
| | 16000 | 86.2 | 89.7 | 91.4 | 94.0 | 94.7 | 96.7 | 97.1 | 99.5 | 99.8 | 102.2 | 101.4 | 102.8 | 104.4 | 104.3 | |
| | 20000 | 83.4 | 86.5 | 88.8 | 90.7 | 94.2 | 93.6 | 96.2 | 95.3 | 98.1 | 95.9 | 97.3 | 99.2 | 100.6 | | |
| | 25000 | 79.7 | 83.8 | 85.2 | 88.0 | 90.5 | 90.2 | 91.5 | 91.6 | 95.2 | 92.1 | 96.2 | 94.5 | 97.3 | | |
| | 31500 | 77.1 | 81.2 | 83.6 | 86.3 | 88.3 | 88.3 | 90.5 | 89.3 | 91.6 | 88.8 | 91.7 | 94.6 | 94.3 | | |
| | 40000 | 72.0 | 76.1 | 79.8 | 81.3 | 82.9 | 83.4 | 85.9 | 83.8 | 86.6 | 85.5 | 88.5 | 90.9 | 90.7 | | |
| | 50000 | 67.0 | 70.7 | 74.2 | 75.5 | 75.5 | 76.9 | 79.6 | 76.6 | 80.5 | 78.8 | 84.1 | 84.1 | 83.9 | | |
| | 63000 | 61.8 | 64.4 | 69.3 | 69.0 | 68.7 | 69.9 | 74.2 | 70.8 | 73.9 | 74.3 | 77.7 | 79.9 | 79.9 | | |
| | 80000 | 59.0 | 61.2 | 67.5 | 64.6 | 63.5 | 64.6 | 73.3 | 65.3 | 69.5 | 71.7 | 74.9 | 73.7 | 76.6 | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 105.2 | 106.3 | 107.0 | 108.2 | 109.5 | 110.3 | 111.6 | 113.9 | 116.6 | 119.2 | 121.9 | 124.1 | 124.5 | | |
| PWDB | | 118.7 | 119.6 | 120.4 | 121.3 | 122.4 | 123.1 | 123.8 | 126.5 | 129.2 | 131.6 | 134.3 | 136.3 | 136.0 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS
 CONFIGURATION 7 TEST POINT 7100 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 26 HR. 18.5

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|
| NO EGA | (9.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (C.) (C.) (C.) (C.) |
| RDG. NO. | 50 | 82.9 | 86.7 | 88.2 | 88.7 | 89.3 | 91.2 | 93.3 | 95.7 | 97.2 | 100.7 | 107.7 | 110.9 | 112.4 |
| RADIAL 150. FT. | 63 | 84.7 | 89.5 | 87.5 | 90.3 | 92.9 | 93.8 | 94.2 | 96.6 | 99.3 | 103.1 | 109.5 | 113.0 | 114.3 |
| (46. M) | 80 | 85.8 | 88.8 | 90.6 | 90.6 | 91.9 | 93.5 | 94.9 | 97.6 | 100.3 | 106.1 | 112.1 | 114.8 | 114.5 |
| VEHICLE CELL41 | 100 | 87.1 | 88.6 | 89.9 | 90.9 | 92.5 | 94.6 | 95.8 | 98.4 | 100.9 | 108.0 | 112.7 | 115.8 | 115.9 |
| CONFIG NC53 | 125 | 89.0 | 90.2 | 91.0 | 92.3 | 94.1 | 95.5 | 97.1 | 99.5 | 103.0 | 108.3 | 112.3 | 114.9 | 115.5 |
| DATE C6-08-76 | 160 | 90.2 | 91.3 | 92.0 | 94.0 | 95.4 | 97.3 | 98.1 | 100.8 | 104.3 | 109.8 | 112.8 | 114.7 | 115.5 |
| RUN CONFTEMPDER | 200 | 92.6 | 94.1 | 94.6 | 95.6 | 96.2 | 97.6 | 99.2 | 101.6 | 104.8 | 109.7 | 111.9 | 113.3 | 115.7 |
| TAPE X7100C | 250 | 92.9 | 93.9 | 95.9 | 96.8 | 97.7 | 98.8 | 99.9 | 102.6 | 106.2 | 110.5 | 111.2 | 113.1 | 114.7 |
| GAR 29.4 HG | 315 | 95.5 | 96.3 | 95.0 | 96.3 | 97.7 | 98.8 | 99.9 | 102.6 | 106.5 | 110.1 | 111.6 | 113.8 | 115.3 |
| (99347. N/M2) | 400 | 99.1 | 98.1 | 98.1 | 97.6 | 98.7 | 99.3 | 101.0 | 103.9 | 106.4 | 109.9 | 111.6 | 114.6 | 115.3 |
| TAMB 75. DEG F | 500 | 99.9 | 100.0 | 100.0 | 100.5 | 99.3 | 99.5 | 100.8 | 104.0 | 107.7 | 109.8 | 111.8 | 114.7 | 114.2 |
| (297. DEG K) | 630 | 97.9 | 99.0 | 100.0 | 100.8 | 102.4 | 101.7 | 101.4 | 104.5 | 107.7 | 109.6 | 112.0 | 114.4 | 113.0 |
| THET 66. DEG F | 800 | 96.2 | 97.0 | 98.1 | 99.3 | 100.7 | 102.0 | 101.9 | 104.8 | 107.1 | 109.2 | 112.1 | 112.5 | 110.3 |
| (292. DEG K) | 1000 | 95.4 | 96.4 | 97.2 | 98.5 | 99.8 | 101.2 | 103.1 | 105.2 | 107.5 | 108.6 | 111.8 | 111.2 | 109.4 |
| HACT13.52 GM/M3 | 1250 | 94.3 | 96.4 | 98.2 | 99.2 | 100.0 | 102.1 | 103.5 | 106.2 | 107.9 | 108.3 | 110.5 | 110.3 | 109.6 |
| FREQ. SHIFT | 2000 | 91.9 | 95.5 | 95.8 | 99.4 | 101.0 | 101.6 | 103.5 | 105.6 | 107.9 | 107.8 | 109.2 | 109.3 | 108.6 |
| JET | 2500 | 90.9 | 94.1 | 95.8 | 97.5 | 99.5 | 99.9 | 102.3 | 102.6 | 105.0 | 107.3 | 106.2 | 107.4 | 108.8 |
| DIAMETER RATIO | 3150 | 89.5 | 93.0 | 94.7 | 97.4 | 98.9 | 98.8 | 101.7 | 102.0 | 104.2 | 103.0 | 104.1 | 106.6 | 106.3 |
| DF/DM 4.63 | 4000 | 87.4 | 90.5 | 92.9 | 94.8 | 98.3 | 97.6 | 100.3 | 99.3 | 102.2 | 100.0 | 101.3 | 103.2 | 104.6 |
| OVERALL CALCULATED | 5000 | 85.1 | 89.1 | 90.5 | 93.3 | 95.8 | 95.5 | 96.8 | 97.0 | 102.6 | 97.5 | 101.5 | 99.8 | 102.6 |
| | 6300 | 84.0 | 88.1 | 90.6 | 93.2 | 95.2 | 95.2 | 97.4 | 96.3 | 98.6 | 95.7 | 98.6 | 101.5 | 101.2 |
| | 8000 | 81.3 | 85.4 | 89.1 | 90.6 | 92.1 | 92.7 | 95.1 | 93.1 | 95.9 | 94.8 | 97.8 | 100.2 | 99.9 |
| | 10000 | 79.3 | 83.0 | 86.5 | 87.8 | 87.9 | 89.2 | 92.0 | 89.0 | 92.8 | 91.1 | 96.4 | 96.4 | 96.2 |
| | 12500 | 78.6 | 81.2 | 86.1 | 85.8 | 85.5 | 86.7 | 91.0 | 87.5 | 93.7 | 91.1 | 95.1 | 94.5 | 96.7 |
| | 16000 | 82.1 | 84.4 | 90.6 | 87.7 | 86.6 | 87.7 | 86.6 | 87.7 | 96.4 | 88.4 | 92.7 | 94.8 | 98.1 |
| | PNDB | 116.5 | 118.9 | 120.3 | 122.2 | 123.8 | 124.2 | 126.2 | 127.3 | 129.9 | 130.3 | 132.4 | 134.2 | 134.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACUSTIC RANGE SIZE
 7 7100 45.7m(150ft.) ARC FULL-.33m²(513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RPM) | NFK
(0. RAD/SEC) | NFD
(7500. RPM) | AIRFLOW RATIO
W/F/M 4.63 | FULL SIZE SOUND PRESSURE | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | |
|--|------------------|----------------------|---------------------|-----------------------------|--------------------------|------|------|------|--|------|------|------|------|------|------|------|------|------|
| | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| 50 | 54.7 | 60.1 | 62.7 | 63.9 | 64.9 | 66.9 | 68.9 | 70.9 | 71.7 | 73.7 | 76.4 | 81.3 | 82.5 | 80.2 | 78.5 | 80.4 | 80.4 | |
| 63 | 56.5 | 62.9 | 62.0 | 65.5 | 68.5 | 69.2 | 70.5 | 72.7 | 74.7 | 79.4 | 83.7 | 84.1 | 81.5 | 80.8 | 80.8 | 80.8 | 80.8 | |
| 80 | 58.4 | 62.1 | 64.9 | 65.7 | 67.5 | 69.2 | 70.5 | 72.7 | 74.7 | 79.4 | 83.7 | 84.1 | 81.5 | 80.8 | 80.8 | 80.8 | 80.8 | |
| 100 | 58.7 | 61.8 | 64.2 | 66.0 | 68.0 | 70.2 | 71.2 | 73.5 | 75.2 | 81.1 | 84.2 | 85.1 | 81.5 | 80.8 | 80.8 | 80.8 | 80.8 | |
| 125 | 60.4 | 63.3 | 65.2 | 67.2 | 69.5 | 71.0 | 72.5 | 74.5 | 77.2 | 81.4 | 83.7 | 84.0 | 81.5 | 80.8 | 80.8 | 80.8 | 80.8 | |
| 160 | 61.5 | 64.2 | 66.1 | 68.9 | 70.6 | 72.7 | 73.4 | 75.6 | 78.3 | 82.7 | 84.0 | 83.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | |
| 200 | 63.6 | 66.8 | 68.5 | 70.3 | 71.3 | 72.9 | 74.3 | 76.3 | 78.8 | 82.4 | 82.9 | 81.9 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | |
| 250 | 63.7 | 66.5 | 69.7 | 71.0 | 71.8 | 73.8 | 74.3 | 77.5 | 79.9 | 83.0 | 82.0 | 81.4 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | |
| 315 | 66.0 | 68.5 | 68.5 | 70.6 | 72.4 | 73.7 | 74.7 | 76.9 | 80.0 | 82.4 | 82.0 | 81.5 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | |
| 400 | 69.1 | 70.0 | 71.3 | 71.6 | 73.2 | 74.0 | 75.4 | 77.9 | 79.5 | 81.8 | 81.6 | 81.8 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | |
| 500 | 69.4 | 71.4 | 72.8 | 74.1 | 73.5 | 73.7 | 75.0 | 77.6 | 80.5 | 81.3 | 81.2 | 81.2 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | |
| 630 | 66.7 | 69.8 | 72.3 | 73.9 | 76.0 | 75.6 | 75.0 | 77.7 | 80.0 | 80.5 | 80.8 | 80.1 | 73.3 | 73.3 | 73.3 | 73.3 | 73.3 | |
| 800 | 64.1 | 67.2 | 69.7 | 71.9 | 73.8 | 73.8 | 75.3 | 77.4 | 78.7 | 79.3 | 77.8 | 77.0 | 68.9 | 68.9 | 68.9 | 68.9 | 68.9 | |
| 1000 | 62.2 | 65.7 | 68.0 | 70.3 | 72.3 | 73.9 | 75.1 | 77.1 | 77.7 | 76.4 | 75.9 | 71.6 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 | |
| 1250 | 59.7 | 64.4 | 68.0 | 70.1 | 71.6 | 72.1 | 73.8 | 75.3 | 76.3 | 74.2 | 72.7 | 68.1 | 58.8 | 58.8 | 58.8 | 58.8 | 58.8 | |
| 1600 | 57.0 | 61.8 | 65.0 | 69.0 | 71.3 | 70.6 | 71.2 | 72.9 | 74.1 | 70.8 | 68.6 | 66.5 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | |
| 2000 | 53.1 | 60.0 | 62.6 | 66.2 | 69.7 | 66.9 | 69.0 | 68.5 | 69.3 | 66.0 | 63.4 | 58.6 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | |
| 2500 | 48.7 | 55.9 | 60.0 | 63.3 | 66.2 | 62.4 | 65.0 | 64.2 | 64.6 | 60.3 | 56.6 | 51.0 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3 | |
| 3150 | 42.0 | 50.3 | 55.1 | 59.6 | 62.2 | 56.1 | 58.4 | 56.1 | 56.6 | 50.5 | 45.7 | 37.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | |
| 4000 | 31.8 | 41.1 | 47.3 | 51.6 | 56.4 | 51.1 | 51.9 | 50.6 | 51.5 | 44.1 | 41.2 | 27.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | |
| 5000 | 24.8 | 35.8 | 41.5 | 47.0 | 50.9 | 42.2 | 43.7 | 40.7 | 39.5 | 30.9 | 24.6 | 11.6 | | | | | | |
| 6300 | 9.9 | 23.3 | 31.5 | 37.7 | 41.6 | 26.4 | 28.0 | 23.3 | 21.3 | 12.4 | 2.6 | | | | | | | |
| 8000 | 3.1 | 14.6 | 20.9 | 25.0 | 26.4 | 4.4 | 6.1 | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | |
| 15000 | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 76.1 | 78.8 | 80.7 | 82.5 | 84.1 | 85.2 | 86.1 | 88.3 | 90.3 | 92.5 | 93.7 | 93.5 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | |
| 1:108 | 81.6 | 85.0 | 87.2 | 89.6 | 91.9 | 92.9 | 94.1 | 95.7 | 97.1 | 97.5 | 97.6 | 96.5 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7100** ACoustic RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)**

MODEL SOUND PRESSURE LEVELS (S9. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250. 260. 270. 280. 290. 300.
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250. 260. 270. 280. 290. 300.

| RDG. NO. | NO EGA | 40. | | 50. | | 60. | | 70. | | 80. | | 90. | | 100. | | 110. | | 120. | | 130. | | 140. | | 150. | | 160. | | 170. | | 180. | | 190. | | 200. | | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| | | 0.70 | 1.05 | 1.22 | 1.40 | 1.57 | 1.75 | 1.92 | 2.09 | 2.27 | 2.44 | 2.62 | 2.79 | 2.97 | 3.15 | 3.33 | 3.51 | 3.69 | 3.87 | 4.05 | 4.23 | 4.41 | 4.59 | 4.77 | 4.95 | 5.13 | 5.31 | 5.49 | 5.67 | 5.85 | 6.03 | 6.21 | 6.39 | | | |
| 100 | 80.0 | 82.4 | 90.2 | 87.7 | 89.5 | 91.0 | 90.2 | 90.8 | 91.7 | 92.4 | 93.4 | 93.7 | 97.2 | 98.1 | 101.6 | 101.9 | 135.4 | | | | | | | | | | | | | | | | | | | |
| 125 | 80.3 | 84.4 | 85.9 | 87.7 | 89.5 | 91.4 | 90.7 | 92.4 | 92.4 | 93.4 | 93.4 | 89.4 | 98.4 | 100.6 | 101.9 | 135.7 | | | | | | | | | | | | | | | | | | | | |
| 160 | 80.9 | 81.9 | 85.7 | 85.7 | 86.5 | 87.2 | 86.3 | 89.2 | 89.2 | 92.2 | 93.2 | 94.7 | 99.2 | 101.1 | 104.2 | 136.4 | | | | | | | | | | | | | | | | | | | | |
| 200 | 83.0 | 82.3 | 84.0 | 86.1 | 86.7 | 88.0 | 88.9 | 91.6 | 91.6 | 93.8 | 97.1 | 101.3 | 106.0 | 108.5 | 140.1 | | | | | | | | | | | | | | | | | | | | | |
| 250 | 81.8 | 86.6 | 86.1 | 86.1 | 87.5 | 89.1 | 91.5 | 93.4 | 94.1 | 98.9 | 105.1 | 108.5 | 109.8 | 142.2 | | | | | | | | | | | | | | | | | | | | | | |
| 315 | 82.9 | 86.9 | 85.4 | 88.0 | 90.6 | 92.1 | 92.1 | 95.0 | 95.0 | 98.5 | 103.8 | 109.7 | 112.0 | 145.7 | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 84.9 | 87.0 | 87.7 | 88.5 | 89.6 | 91.0 | 92.1 | 93.4 | 96.1 | 99.3 | 105.1 | 110.3 | 112.8 | 146.6 | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 86.0 | 86.5 | 88.0 | 88.8 | 90.7 | 92.5 | 93.4 | 94.8 | 97.2 | 100.9 | 106.2 | 109.9 | 112.6 | 146.2 | | | | | | | | | | | | | | | | | | | | | | |
| 630 | 87.1 | 87.9 | 88.6 | 90.4 | 91.8 | 93.0 | 94.7 | 96.0 | 98.7 | 102.7 | 107.2 | 109.9 | 112.4 | 146.4 | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 88.4 | 89.2 | 90.4 | 91.7 | 93.0 | 94.4 | 95.5 | 96.9 | 99.5 | 103.0 | 107.8 | 112.1 | 114.4 | 146.8 | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 93.5 | 91.5 | 92.2 | 93.8 | 94.4 | 95.5 | 96.9 | 99.5 | 103.0 | 107.8 | 112.1 | 114.4 | 146.8 | | | | | | | | | | | | | | | | | | | | | | | |
| 1250 | 90.0 | 91.3 | 92.8 | 93.6 | 94.5 | 96.6 | 97.5 | 100.6 | 104.3 | 107.9 | 108.4 | 110.8 | 111.6 | 146.8 | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | 91.6 | 92.7 | 92.7 | 93.5 | 95.3 | 97.2 | 97.8 | 100.5 | 104.4 | 107.8 | 109.0 | 110.9 | 111.9 | 146.8 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 93.9 | 94.2 | 94.7 | 94.3 | 96.1 | 97.0 | 98.9 | 101.8 | 104.5 | 108.5 | 109.0 | 111.4 | 111.7 | 146.8 | | | | | | | | | | | | | | | | | | | | | | |
| 2500 | 95.3 | 95.6 | 95.6 | 96.4 | 98.2 | 97.3 | 98.7 | 101.4 | 105.3 | 107.2 | 108.6 | 111.8 | 110.8 | 146.8 | | | | | | | | | | | | | | | | | | | | | | |
| 3150 | 94.3 | 95.3 | 96.1 | 97.1 | 98.2 | 97.8 | 98.9 | 102.4 | 105.3 | 107.2 | 109.1 | 112.0 | 109.6 | 145.8 | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 93.0 | 93.3 | 94.6 | 96.1 | 97.2 | 98.8 | 99.2 | 103.1 | 105.1 | 106.7 | 108.1 | 110.3 | 106.8 | 145.4 | | | | | | | | | | | | | | | | | | | | | | |
| 5000 | 92.7 | 93.2 | 94.0 | 95.5 | 96.6 | 98.5 | 99.6 | 102.5 | 104.7 | 105.6 | 108.3 | 109.2 | 106.7 | 145.2 | | | | | | | | | | | | | | | | | | | | | | |
| 6300 | 92.5 | 94.0 | 94.6 | 95.6 | 96.7 | 98.8 | 100.7 | 103.1 | 104.8 | 104.7 | 107.4 | 108.0 | 105.8 | 144.2 | | | | | | | | | | | | | | | | | | | | | | |
| 8000 | 92.3 | 93.6 | 93.9 | 96.4 | 97.2 | 98.6 | 100.5 | 102.4 | 104.7 | 104.8 | 106.0 | 107.1 | 104.9 | 142.5 | | | | | | | | | | | | | | | | | | | | | | |
| 10000 | 90.4 | 93.0 | 93.6 | 95.4 | 97.4 | 97.3 | 98.9 | 101.4 | 103.9 | 103.1 | 104.5 | 106.8 | 104.0 | 141.8 | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | 87.3 | 90.9 | 91.2 | 93.9 | 95.5 | 96.1 | 98.7 | 99.1 | 101.4 | 101.0 | 102.8 | 104.4 | 102.4 | 139.8 | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | 85.9 | 89.0 | 89.4 | 92.1 | 93.1 | 95.0 | 97.6 | 97.4 | 103.4 | 98.4 | 100.0 | 102.8 | 101.0 | 137.7 | | | | | | | | | | | | | | | | | | | | | | |
| 20000 | 82.9 | 85.7 | 86.9 | 89.3 | 92.8 | 92.3 | 95.3 | 94.3 | 94.3 | 97.4 | 96.1 | 99.2 | 98.6 | 137.7 | | | | | | | | | | | | | | | | | | | | | | |
| 25000 | 79.8 | 83.4 | 83.8 | 85.8 | 88.3 | 88.8 | 89.8 | 90.9 | 94.8 | 91.2 | 94.3 | 93.8 | 95.1 | 136.5 | | | | | | | | | | | | | | | | | | | | | | |
| 31500 | 77.1 | 81.0 | 82.5 | 85.2 | 86.4 | 86.1 | 88.3 | 88.2 | 91.0 | 87.9 | 90.8 | 94.4 | 92.9 | 136.5 | | | | | | | | | | | | | | | | | | | | | | |
| 40000 | 71.6 | 76.0 | 78.7 | 80.2 | 81.5 | 82.0 | 83.5 | 83.2 | 86.5 | 84.9 | 86.9 | 90.0 | 89.0 | 134.6 | | | | | | | | | | | | | | | | | | | | | | |
| 50000 | 65.1 | 69.6 | 73.1 | 74.1 | 74.2 | 75.0 | 75.3 | 75.8 | 79.9 | 78.2 | 83.6 | 83.5 | 82.3 | 134.2 | | | | | | | | | | | | | | | | | | | | | | |
| 63000 | 59.0 | 61.6 | 68.1 | 67.2 | 66.9 | 68.1 | 67.1 | 69.2 | 72.8 | 72.8 | 77.3 | 76.4 | 75.3 | 137.6 | | | | | | | | | | | | | | | | | | | | | | |
| 80000 | 54.4 | 54.4 | 64.3 | 59.8 | 58.4 | 61.5 | 61.2 | 62.0 | 67.3 | 66.2 | 71.4 | 71.2 | 70.3 | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | 113.9 | 105.2 | 105.8 | 107.1 | 108.4 | 109.5 | 110.9 | 113.3 | 115.1 | 118.6 | 121.1 | 123.5 | 123.3 | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 117.1 | 118.2 | 119.9 | 120.0 | 121.9 | 122.2 | 123.1 | 125.9 | 125.4 | 131.0 | 133.7 | 135.3 | 134.6 | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7101** ACOUSTIC RANGE **12.2m(40ft.) ARC** SIZE **MODEL-154cm²(23.9in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
DEG. F, 70 PERCENT REL. HUM. DAY - JENCTS)

| NO EGA | RDG. NO. | RADIOAL 150. FT. | VEHICLE | CONF LG | LOC | DATE | RUN | TAPE | BAR | TAMB | TWET | HACT | FREQ. | SCALED FROM MODEL DATA | | | | | | PWL |
|--------------------|----------|------------------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | |
| | 50 | 83.6 | 86.4 | 87.9 | 88.0 | 89.3 | 90.9 | 93.3 | 95.2 | 95.9 | 100.7 | 106.9 | 110.4 | 111.7 | 155.5 | | | | | |
| | 53 | 84.7 | 88.8 | 87.3 | 89.8 | 92.4 | 92.8 | 93.9 | 96.1 | 98.3 | 103.1 | 109.0 | 112.5 | 113.5 | 157.5 | | | | | |
| | 80 | 86.3 | 88.8 | 89.6 | 90.3 | 91.4 | 92.8 | 93.9 | 96.8 | 100.3 | 105.6 | 111.6 | 114.0 | 113.8 | 159.3 | | | | | |
| | 100 | 87.9 | 88.4 | 89.9 | 90.7 | 92.5 | 94.4 | 95.3 | 97.9 | 101.1 | 107.0 | 112.2 | 115.1 | 114.6 | 159.9 | | | | | |
| | 125 | 89.0 | 89.7 | 90.5 | 92.3 | 93.6 | 95.0 | 96.6 | 99.9 | 102.7 | 108.1 | 111.8 | 114.9 | 114.5 | 160.0 | | | | | |
| CELL41 | 160 | 90.2 | 91.0 | 92.3 | 93.5 | 94.9 | 96.5 | 97.9 | 100.5 | 104.5 | 109.1 | 111.8 | 114.0 | 114.2 | 159.9 | | | | | |
| NCS3 | 200 | 92.3 | 93.3 | 94.1 | 95.6 | 96.2 | 97.3 | 98.7 | 101.4 | 104.8 | 109.7 | 111.4 | 112.3 | 113.8 | 159.5 | | | | | |
| C41 ANECH CH | 250 | 91.9 | 93.2 | 94.7 | 95.5 | 96.3 | 98.4 | 99.3 | 102.5 | 106.2 | 109.8 | 110.2 | 112.6 | 113.4 | 159.5 | | | | | |
| C6-08-76 | 315 | 93.5 | 94.5 | 94.5 | 95.3 | 97.2 | 99.0 | 99.7 | 102.3 | 106.3 | 109.6 | 110.8 | 112.8 | 113.8 | 159.7 | | | | | |
| CONFTEMPDEP | 400 | 95.8 | 96.1 | 96.6 | 96.1 | 98.0 | 98.8 | 100.7 | 103.6 | 106.4 | 110.2 | 110.9 | 113.3 | 113.6 | 160.1 | | | | | |
| X71010 | 500 | 97.2 | 97.5 | 97.5 | 98.3 | 98.1 | 99.2 | 100.6 | 103.3 | 107.2 | 109.1 | 110.5 | 113.7 | 112.7 | 159.9 | | | | | |
| HG | 630 | 96.2 | 97.2 | 98.0 | 99.0 | 100.1 | 99.7 | 100.9 | 104.3 | 107.2 | 109.1 | 111.0 | 113.9 | 111.5 | 160.1 | | | | | |
| (9347. N/M2) | 800 | 95.0 | 95.3 | 96.6 | 98.1 | 99.2 | 100.8 | 101.2 | 104.1 | 107.1 | 108.7 | 110.1 | 112.3 | 108.8 | 159.1 | | | | | |
| DEG F | 1000 | 94.6 | 95.2 | 96.0 | 97.5 | 98.6 | 100.4 | 101.6 | 104.5 | 106.7 | 107.6 | 110.3 | 111.2 | 108.7 | 158.8 | | | | | |
| (296. DEG K) | 1250 | 94.5 | 96.1 | 96.7 | 97.7 | 98.7 | 100.9 | 102.7 | 105.2 | 106.9 | 106.8 | 109.5 | 110.1 | 107.9 | 158.5 | | | | | |
| DEG F | 1600 | 94.5 | 95.8 | 96.1 | 98.6 | 99.5 | 100.8 | 102.7 | 104.6 | 106.9 | 107.0 | 108.2 | 109.3 | 107.1 | 156.1 | | | | | |
| (291. DEG K) | 2000 | 92.9 | 95.5 | 96.1 | 97.8 | 99.9 | 99.8 | 101.4 | 103.8 | 106.3 | 105.5 | 106.9 | 109.3 | 106.5 | 157.5 | | | | | |
| GM/M3 | 2500 | 90.1 | 93.6 | 94.0 | 96.7 | 98.3 | 98.9 | 101.5 | 101.9 | 103.8 | 103.7 | 104.6 | 107.2 | 103.1 | 155.8 | | | | | |
| (.01289 KG/M3) | 3150 | 89.3 | 92.3 | 92.8 | 95.4 | 98.5 | 98.3 | 101.0 | 100.7 | 103.8 | 101.8 | 103.4 | 106.1 | 104.3 | 155.2 | | | | | |
| SHIFT | 4000 | 87.0 | 89.8 | 90.9 | 93.3 | 96.8 | 96.4 | 99.3 | 98.4 | 101.5 | 98.8 | 100.1 | 103.3 | 102.7 | 153.1 | | | | | |
| JET | 5000 | 85.1 | 88.7 | 89.1 | 91.2 | 93.6 | 94.1 | 95.1 | 96.3 | 103.1 | 96.6 | 99.6 | 99.2 | 100.5 | 151.2 | | | | | |
| RATIO | 6300 | 84.1 | 87.9 | 89.4 | 92.1 | 93.3 | 93.0 | 95.2 | 95.1 | 97.9 | 94.8 | 97.7 | 101.4 | 99.8 | 150.9 | | | | | |
| DF/DM | 8000 | 80.9 | 85.3 | 88.0 | 89.5 | 90.8 | 91.3 | 92.8 | 92.4 | 95.7 | 94.2 | 96.2 | 99.3 | 98.3 | 149.8 | | | | | |
| | 10000 | 77.4 | 81.9 | 85.4 | 86.4 | 86.5 | 87.3 | 87.6 | 88.1 | 92.2 | 90.6 | 95.9 | 95.8 | 94.6 | 147.9 | | | | | |
| | 12500 | 75.7 | 78.3 | 84.8 | 84.0 | 83.7 | 84.8 | 83.9 | 86.0 | 89.6 | 89.6 | 94.1 | 93.2 | 92.1 | 147.5 | | | | | |
| | 16000 | 77.6 | 77.6 | 87.4 | 82.9 | 81.5 | 84.7 | 84.3 | 85.1 | 90.4 | 89.3 | 94.5 | 94.3 | 93.4 | 151.0 | | | | | |
| OVERALL CALCULATED | 105.9 | 107.2 | 107.9 | 109.2 | 110.6 | 111.6 | 113.1 | 115.3 | 118.3 | 120.5 | 122.9 | 125.3 | 124.9 | | | | | | | |
| P.W.B | 116.0 | 118.3 | 119.0 | 120.9 | 122.9 | 123.3 | 125.3 | 126.4 | 129.3 | 129.6 | 131.5 | 133.8 | 132.6 | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7101 ACOUSTIC RANGE FULL-.33m²(513in²)

| NO. EGA
SIDELINE 2400 FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | |
|--|-------|--------------------------|------|------|------|------|--|------|------|------|------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | 52 | 55.5 | 59.8 | 62.4 | 63.2 | 64.9 | 66.7 | 68.9 | 70.4 | 72.4 | 74.1 | 75.8 | 77.8 | 79.5 |
| | 63 | 56.5 | 62.1 | 61.7 | 65.0 | 68.0 | 68.5 | 69.5 | 71.2 | 72.7 | 76.4 | 80.8 | 82.0 | 79.5 |
| | 80 | 58.4 | 62.1 | 63.9 | 65.4 | 67.0 | 68.5 | 69.5 | 71.9 | 74.7 | 78.9 | 83.2 | 83.4 | 79.6 |
| | 100 | 59.4 | 61.6 | 64.2 | 65.7 | 68.0 | 70.0 | 70.7 | 73.0 | 75.4 | 80.1 | 83.7 | 84.3 | 80.2 |
| HFA
(1. RPM) | 125 | 60.4 | 62.8 | 64.7 | 67.2 | 69.0 | 70.5 | 72.0 | 74.0 | 76.9 | 81.1 | 83.2 | 84.0 | 79.8 |
| NFK
(1. RPM) | 160 | 61.5 | 63.9 | 66.3 | 68.4 | 70.1 | 71.9 | 73.1 | 75.4 | 78.6 | 82.0 | 82.8 | 83.0 | 79.3 |
| | 200 | 63.3 | 66.1 | 68.0 | 70.3 | 71.3 | 72.6 | 73.8 | 76.1 | 78.8 | 82.4 | 82.4 | 80.9 | 78.5 |
| | 250 | 62.7 | 65.7 | 68.4 | 70.0 | 71.3 | 73.5 | 74.3 | 77.0 | 79.9 | 82.3 | 81.0 | 80.9 | 77.5 |
| MFD
(7500. RPM) | 315 | 64.0 | 66.8 | 68.0 | 69.6 | 71.9 | 73.9 | 74.4 | 76.6 | 79.8 | 81.9 | 81.3 | 80.5 | 77.3 |
| | 400 | 65.8 | 68.0 | 69.8 | 70.1 | 72.4 | 73.5 | 75.2 | 77.6 | 79.5 | 82.1 | 80.9 | 80.5 | 76.2 |
| AIRFLOW RATIO | 500 | 66.7 | 68.9 | 70.2 | 71.9 | 72.2 | 73.5 | 74.7 | 76.9 | 80.0 | 80.5 | 80.0 | 80.2 | 74.3 |
| WFA/M 4.63 | 630 | 65.0 | 68.1 | 70.3 | 72.2 | 73.8 | 73.6 | 74.5 | 77.4 | 79.5 | 79.9 | 79.8 | 79.6 | 71.8 |
| VEHICLE | 800 | 62.9 | 65.4 | 68.2 | 70.7 | 72.3 | 74.1 | 74.3 | 76.7 | 78.7 | 78.8 | 78.0 | 76.7 | 67.4 |
| CONFIG | 1000 | 61.4 | 64.4 | 66.8 | 69.3 | 71.0 | 73.0 | 74.0 | 76.3 | 77.5 | 76.8 | 77.1 | 74.2 | 65.2 |
| LOC C41 ANECHOIC CH | 1250 | 60.0 | 64.2 | 66.5 | 68.6 | 70.3 | 72.6 | 74.3 | 76.1 | 76.9 | 74.9 | 71.4 | 61.8 | 57.3 |
| DATE 06-08-76 | 1600 | 58.0 | 62.3 | 64.5 | 68.3 | 69.8 | 71.4 | 73.0 | 74.3 | 75.3 | 73.5 | 71.7 | 68.1 | 57.3 |
| RUN CONF7TEMPDEP | 2000 | 54.1 | 60.1 | 62.8 | 65.9 | 68.7 | 68.8 | 70.2 | 71.9 | 73.1 | 70.1 | 68.1 | 65.1 | 52.3 |
| TAPE X71010 | 2500 | 48.0 | 55.4 | 58.3 | 62.6 | 65.0 | 65.9 | 68.2 | 67.7 | 68.0 | 65.5 | 62.5 | 58.6 | 44.5 |
| FAN TIP SPEED | 3150 | 41.7 | 49.6 | 53.1 | 57.7 | 61.7 | 61.9 | 64.2 | 63.0 | 64.1 | 59.0 | 55.8 | 50.6 | 33.3 |
| FT/SEC | 4000 | 31.4 | 40.4 | 45.4 | 50.1 | 54.9 | 54.9 | 57.4 | 55.2 | 55.9 | 49.3 | 44.5 | 37.3 | 16.2 |
| | 5000 | 24.8 | 35.3 | 40.1 | 44.8 | 48.7 | 49.7 | 50.2 | 49.9 | 51.1 | 43.2 | 39.3 | 27.0 | 5.0 |
| | 6300 | 10.0 | 23.1 | 30.3 | 36.5 | 39.7 | 40.0 | 41.6 | 39.5 | 38.9 | 30.0 | 23.7 | 11.4 | |
| | 8000 | | 2.9 | 13.5 | 19.7 | 23.6 | 25.0 | 25.6 | 22.7 | 21.2 | 11.8 | 1.0 | | |
| | 10000 | | | | | | 2.6 | | | | | | | |
| | 12500 | | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 74.5 | 77.4 | 79.4 | 81.4 | 83.1 | 84.5 | 85.6 | 87.8 | 90.0 | 92.0 | 93.0 | 92.9 | 89.0 |
| MND8 | | 80.0 | 83.5 | 85.7 | 88.5 | 90.0 | 91.9 | 93.4 | 94.9 | 96.5 | 97.1 | 96.7 | 95.8 | 90.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7101** ACUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE - MONTH 8 DAY 26 HR. 18.5
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEROTS)

40. 50. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. C. C. C. C. PUL
 FREQ. (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)(3.00)(3.20)

| NO EGA | 50 | 63 | 80 | 80 | 88.2 | 89.8 | 89.2 | 89.8 | 90.2 | 90.9 | 92.7 | 96.2 | 96.4 | 134.0 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ROG. NO. C. | 50 | 63 | 80 | 80 | 88.2 | 89.8 | 89.2 | 89.8 | 90.2 | 90.9 | 92.7 | 96.2 | 96.4 | 134.0 |
| RADIAL (12. M) | 125 | 80.8 | 83.4 | 86.9 | 87.7 | 89.0 | 90.4 | 90.5 | 91.7 | 89.6 | 88.4 | 98.1 | 99.6 | 135.1 |
| VEHICLE CELL41 | 160 | 80.4 | 81.9 | 85.4 | 85.2 | 86.5 | 86.9 | 86.5 | 86.7 | 90.2 | 95.2 | 99.2 | 100.9 | 136.0 |
| CONFIG NC53 | 200 | 81.8 | 82.0 | 83.3 | 85.6 | 86.2 | 86.8 | 37.7 | 90.6 | 93.3 | 96.6 | 100.8 | 105.5 | 139.2 |
| LOC C41 ANECH CH | 250 | 80.6 | 83.6 | 85.3 | 85.9 | 86.7 | 88.1 | 90.5 | 92.4 | 93.8 | 98.2 | 104.4 | 107.3 | 141.1 |
| DATE 06-08-76 | 315 | 82.2 | 86.4 | 84.7 | 87.0 | 89.6 | 90.4 | 91.1 | 93.5 | 96.2 | 100.8 | 107.0 | 109.9 | 143.5 |
| RUN CONF7TEMPDEP | 400 | 84.2 | 85.7 | 87.5 | 88.0 | 89.6 | 90.2 | 91.8 | 94.8 | 97.5 | 102.8 | 109.2 | 111.2 | 144.9 |
| TAPE X71020 | 500 | 85.0 | 86.0 | 87.3 | 88.3 | 89.7 | 92.0 | 92.7 | 95.6 | 98.8 | 104.6 | 109.3 | 111.5 | 145.3 |
| BAR 29.4 HG | 630 | 86.1 | 87.9 | 88.4 | 89.9 | 91.3 | 92.9 | 94.5 | 96.4 | 100.6 | 105.7 | 108.9 | 111.6 | 145.4 |
| (99347. N/R2) | 800 | 87.4 | 88.9 | 89.4 | 91.2 | 92.8 | 94.2 | 95.3 | 98.4 | 101.4 | 106.5 | 109.2 | 110.1 | 145.2 |
| TAMB 73. DEG F | 1000 | 89.2 | 90.5 | 91.2 | 92.3 | 93.6 | 95.0 | 96.6 | 99.0 | 102.0 | 106.1 | 109.0 | 108.7 | 144.8 |
| (296. DEG K) | 1250 | 89.0 | 90.3 | 92.3 | 93.4 | 94.2 | 95.8 | 97.0 | 100.1 | 103.8 | 106.7 | 107.6 | 108.8 | 144.8 |
| TWET 65. DEG F | 1600 | 89.6 | 91.7 | 91.9 | 93.2 | 95.1 | 96.4 | 97.1 | 99.7 | 103.7 | 106.5 | 107.6 | 108.6 | 144.8 |
| (291. DEG K) | 2000 | 89.9 | 91.5 | 92.7 | 93.5 | 95.4 | 95.7 | 97.9 | 101.3 | 104.0 | 105.8 | 107.0 | 109.4 | 144.9 |
| HACT12.89 GM/M3 | 2500 | 91.5 | 92.3 | 93.3 | 94.1 | 95.0 | 96.3 | 98.2 | 100.9 | 104.6 | 105.4 | 106.6 | 110.0 | 145.0 |
| (.01289 KG/M3) | 3150 | 91.0 | 92.8 | 94.1 | 94.9 | 95.7 | 96.6 | 98.7 | 101.9 | 105.6 | 105.7 | 106.9 | 110.0 | 145.2 |
| FREQ. SHIFT | 4000 | 90.0 | 91.6 | 92.9 | 94.4 | 96.2 | 96.8 | 98.2 | 102.1 | 103.9 | 105.0 | 106.4 | 109.1 | 144.5 |
| JET 0 | 5000 | 89.7 | 91.7 | 92.2 | 93.8 | 95.8 | 97.5 | 98.8 | 101.5 | 103.7 | 103.8 | 106.3 | 107.7 | 144.0 |
| DIAMETER RATIO | 6300 | 89.5 | 91.5 | 92.1 | 93.6 | 95.7 | 97.5 | 99.7 | 101.6 | 103.3 | 103.0 | 105.1 | 107.3 | 143.8 |
| DF/DM 1.00 | 8000 | 88.3 | 90.9 | 90.9 | 93.7 | 95.7 | 97.4 | 99.5 | 101.2 | 102.4 | 102.8 | 104.2 | 106.3 | 143.4 |
| | 10000 | 86.4 | 90.0 | 90.6 | 92.4 | 95.7 | 96.0 | 98.2 | 100.6 | 102.1 | 100.8 | 102.7 | 105.8 | 142.8 |
| | 12500 | 84.8 | 88.1 | 88.7 | 90.9 | 93.2 | 94.9 | 97.0 | 98.8 | 100.0 | 98.7 | 100.3 | 103.9 | 141.3 |
| | 16000 | 83.2 | 87.0 | 87.7 | 90.3 | 92.4 | 93.0 | 95.9 | 96.6 | 98.7 | 96.7 | 98.8 | 102.0 | 140.5 |
| | 20000 | 80.4 | 84.0 | 85.1 | 87.3 | 91.3 | 90.3 | 93.3 | 93.1 | 96.2 | 93.0 | 94.6 | 98.2 | 138.4 |
| | 25000 | 77.5 | 81.6 | 81.8 | 84.6 | 87.0 | 87.0 | 88.0 | 89.7 | 93.5 | 89.2 | 92.3 | 93.1 | 136.3 |
| | 31500 | 74.9 | 79.0 | 80.2 | 82.7 | 85.2 | 84.9 | 86.8 | 86.7 | 89.5 | 85.6 | 88.8 | 93.9 | 136.2 |
| | 40000 | 69.6 | 74.5 | 77.2 | 78.9 | 80.2 | 80.5 | 82.0 | 82.4 | 85.0 | 82.4 | 85.7 | 89.8 | 135.3 |
| | 50000 | 63.1 | 68.3 | 71.6 | 72.9 | 74.4 | 74.0 | 73.8 | 74.8 | 77.9 | 76.2 | 80.1 | 83.3 | 133.0 |
| | 63000 | 57.2 | 61.8 | 66.3 | 66.7 | 70.1 | 67.3 | 66.6 | 68.4 | 71.1 | 71.0 | 75.3 | 74.6 | 132.8 |
| | 80000 | 51.9 | 57.2 | 63.0 | 61.6 | 66.7 | 61.3 | 60.7 | 61.2 | 65.3 | 68.7 | 69.9 | 68.4 | 137.2 |
| OVERALL MEASURED | | 101.2 | 103.2 | 104.0 | 105.5 | 107.2 | 108.3 | 110.1 | 112.6 | 115.1 | 117.2 | 119.8 | 122.0 | 157.3 |
| OVERALL CALCULATED | | 114.3 | 116.2 | 117.2 | 118.3 | 119.8 | 120.8 | 122.5 | 125.4 | 127.9 | 129.6 | 131.6 | 134.1 | 153.2 |

CONFIGURATION 7 TEST POINT 7102 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

ANECHOIC JET NOISE TEST FACILITY RESULTS

| RDG. NO. | NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA | | | | | | | | | | REL. HUM. | DAY | JENOTS |
|--------------------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|--------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | | |
| 50 | 82.4 | 85.4 | 87.2 | 87.7 | 88.6 | 89.9 | 92.3 | 94.2 | 95.7 | 100.0 | 106.2 | 109.1 | 110.2 | 154.6 |
| 53 | 84.0 | 88.3 | 86.5 | 88.8 | 91.4 | 92.3 | 92.9 | 95.3 | 98.0 | 102.6 | 108.8 | 111.7 | 112.5 | 156.9 |
| 80 | 86.0 | 87.5 | 89.3 | 89.8 | 91.4 | 92.0 | 93.7 | 96.6 | 99.3 | 104.6 | 111.1 | 113.0 | 113.0 | 158.2 |
| 100 | 86.9 | 87.9 | 89.1 | 90.2 | 91.5 | 93.9 | 94.5 | 97.4 | 100.6 | 106.5 | 111.2 | 113.3 | 112.9 | 158.6 |
| 125 | 88.0 | 89.7 | 90.2 | 91.8 | 93.1 | 94.7 | 96.5 | 98.3 | 102.6 | 107.6 | 110.8 | 113.4 | 112.5 | 158.7 |
| 160 | 89.2 | 90.7 | 91.3 | 93.0 | 94.6 | 96.0 | 97.1 | 100.3 | 103.3 | 108.3 | 111.0 | 112.0 | 111.7 | 158.5 |
| 200 | 91.1 | 92.3 | 93.1 | 94.1 | 95.5 | 96.8 | 98.5 | 100.9 | 103.8 | 107.9 | 110.9 | 110.5 | 111.1 | 158.1 |
| 250 | 90.9 | 92.2 | 94.2 | 95.2 | 96.1 | 97.7 | 98.8 | 102.0 | 105.7 | 108.5 | 109.5 | 110.6 | 110.7 | 158.1 |
| 315 | 91.5 | 93.5 | 93.8 | 95.1 | 96.9 | 98.3 | 98.9 | 101.6 | 105.5 | 108.4 | 109.3 | 110.5 | 111.5 | 158.1 |
| 400 | 91.8 | 93.3 | 94.6 | 95.4 | 97.2 | 97.6 | 99.7 | 103.1 | 105.9 | 107.7 | 108.9 | 111.3 | 111.1 | 158.2 |
| 500 | 93.4 | 94.2 | 95.2 | 96.0 | 96.8 | 98.2 | 100.1 | 102.8 | 106.5 | 107.3 | 108.5 | 111.9 | 110.5 | 158.3 |
| 630 | 92.9 | 94.7 | 96.0 | 96.8 | 97.6 | 98.5 | 100.6 | 103.8 | 106.5 | 107.6 | 108.8 | 111.9 | 110.2 | 158.5 |
| 800 | 92.0 | 93.5 | 94.8 | 96.3 | 98.2 | 98.8 | 100.2 | 104.1 | 105.8 | 106.9 | 108.4 | 111.0 | 108.3 | 157.9 |
| 1000 | 91.6 | 93.7 | 94.2 | 95.7 | 97.8 | 99.4 | 100.8 | 103.5 | 105.7 | 105.8 | 108.3 | 109.7 | 107.9 | 157.1 |
| 1250 | 91.5 | 93.6 | 94.2 | 95.7 | 97.7 | 99.6 | 101.7 | 103.7 | 105.4 | 105.0 | 107.2 | 109.3 | 108.1 | 157.1 |
| 1600 | 90.5 | 93.1 | 93.1 | 95.9 | 98.0 | 99.6 | 101.7 | 103.4 | 104.6 | 105.0 | 106.4 | 108.6 | 107.3 | 156.7 |
| 2000 | 88.9 | 92.5 | 93.1 | 94.8 | 98.1 | 98.5 | 100.6 | 103.1 | 104.6 | 103.3 | 105.2 | 108.3 | 106.3 | 156.1 |
| 2500 | 87.6 | 90.9 | 91.5 | 93.7 | 96.0 | 97.6 | 99.8 | 101.6 | 102.8 | 101.5 | 103.1 | 106.7 | 104.9 | 154.6 |
| 3150 | 86.5 | 90.3 | 91.0 | 93.7 | 95.7 | 96.3 | 99.2 | 100.0 | 102.0 | 100.0 | 102.1 | 105.4 | 104.3 | 153.8 |
| 4000 | 84.5 | 88.1 | 89.2 | 91.3 | 95.3 | 94.4 | 97.3 | 97.1 | 100.2 | 97.0 | 98.6 | 102.3 | 101.4 | 151.7 |
| 5000 | 82.9 | 86.9 | 87.1 | 89.9 | 92.4 | 92.3 | 93.4 | 95.0 | 98.9 | 94.6 | 97.6 | 98.4 | 99.5 | 149.6 |
| 6300 | 81.8 | 85.9 | 87.2 | 89.6 | 92.1 | 91.8 | 93.7 | 93.6 | 96.4 | 92.6 | 95.7 | 100.9 | 97.8 | 149.5 |
| 8000 | 78.9 | 83.8 | 86.5 | 88.2 | 89.5 | 89.8 | 91.3 | 91.7 | 94.2 | 91.7 | 95.0 | 99.0 | 96.3 | 148.6 |
| 10000 | 75.4 | 80.6 | 83.9 | 85.2 | 86.8 | 86.3 | 86.1 | 87.1 | 90.2 | 88.6 | 92.4 | 95.6 | 92.4 | 146.3 |
| 12500 | 74.0 | 78.6 | 83.1 | 83.5 | 86.9 | 84.1 | 83.4 | 85.2 | 87.9 | 87.9 | 92.1 | 91.4 | 88.6 | 146.1 |
| 16000 | 75.1 | 80.3 | 86.1 | 84.7 | 89.8 | 84.4 | 83.8 | 84.3 | 88.4 | 91.8 | 93.0 | 91.5 | 90.2 | 150.5 |
| OVERALL CALCULATED | 103.1 | 105.2 | 106.1 | 107.5 | 109.4 | 110.4 | 112.2 | 114.6 | 117.2 | 119.1 | 121.7 | 123.8 | 123.3 | 170.5 |
| P.08 | 113.2 | 116.2 | 117.0 | 119.1 | 121.1 | 122.0 | 124.0 | 125.8 | 128.0 | 127.8 | 129.9 | 132.7 | 131.6 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7102 ACOUSTIC RANGE FULL-.33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 8 DAY 26 HR. 18.5

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F/ 70 PERCENT REL. HUM. DAY)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F/ 70 PERCENT REL. HUM. DAY) | | | |
|--------------------|---|------|------|------|
| | 40. | 50. | 60. | 70. |
| 50 | 54.2 | 58.8 | 61.7 | 62.9 |
| 63 | 55.7 | 61.6 | 61.0 | 64.0 |
| 80 | 57.7 | 60.8 | 63.7 | 64.9 |
| 100 | 58.4 | 61.1 | 63.4 | 65.2 |
| 125 | 59.4 | 62.8 | 64.4 | 66.7 |
| 160 | 60.5 | 63.7 | 65.3 | 67.9 |
| 200 | 62.1 | 65.1 | 67.0 | 68.8 |
| 250 | 61.7 | 64.7 | 67.9 | 69.7 |
| 315 | 62.0 | 65.8 | 67.3 | 69.4 |
| 400 | 61.8 | 65.2 | 67.8 | 69.4 |
| 500 | 62.9 | 65.7 | 68.0 | 69.6 |
| 630 | 61.7 | 65.6 | 68.3 | 69.9 |
| 800 | 59.9 | 63.7 | 66.4 | 68.9 |
| 1000 | 58.4 | 62.9 | 65.0 | 67.6 |
| 1250 | 57.0 | 61.7 | 64.0 | 66.6 |
| 1600 | 54.0 | 59.6 | 61.5 | 63.5 |
| 2000 | 50.1 | 57.1 | 59.8 | 62.9 |
| 2500 | 45.5 | 52.7 | 55.8 | 59.6 |
| 3150 | 39.0 | 47.6 | 51.3 | 53.9 |
| 4000 | 28.9 | 38.6 | 43.6 | 48.1 |
| 5000 | 22.6 | 33.6 | 38.1 | 43.6 |
| 6300 | 7.8 | 21.1 | 28.1 | 34.0 |
| 8000 | 1.4 | 12.0 | 18.5 | 22.4 |
| 10000 | | | 0.9 | 1.6 |
| 12500 | | | 0.2 | |
| 16000 | | | | |
| OVERALL CALCULATED | 72.1 | 75.7 | 77.9 | 80.0 |
| PNDB | 76.9 | 81.1 | 83.7 | 86.6 |

VEHICLE CELL41
 CONFIG NC53
 LOC C41 ANECH CH
 DATE 06-08-76
 RUN CONF7TEMPDEP
 TAPE X71020
 FAN TIP SPEED FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7* TEST POINT 7102 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 8 DAY 26 HR. 18.5
 MODEL SOUND PRESSURE LEVELS (SP. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

RDG. NO. C. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. P/L
 FREQ. (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)(3.15)(3.3)(3.45)(3.6)

| RDG. NO. | C. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | P/L |
|--------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 63 | 81.1 | 89.7 | 87.4 | 85.7 | 89.8 | 89.9 | 90.8 | 91.2 | 92.2 | 93.7 | 96.9 | 97.6 | 100.4 | 134.9 |
| RADIAL | 40. C. | 78.6 | 83.4 | 84.9 | 87.2 | 88.7 | 90.6 | 90.5 | 91.4 | 92.4 | 88.9 | 97.4 | 100.1 | 101.1 | 135.3 |
| VEHICLE | CELL41 | 78.9 | 81.9 | 86.2 | 85.5 | 86.3 | 86.7 | 86.5 | 88.5 | 89.9 | 94.5 | 99.2 | 101.1 | 103.4 | 136.1 |
| CONFIG | NCS3 | 81.3 | 82.3 | 83.8 | 85.6 | 86.9 | 87.5 | 88.4 | 91.1 | 93.5 | 97.1 | 101.1 | 106.0 | 107.8 | 139.7 |
| LOC | C41 ANECH CH | 200 | 80.8 | 84.3 | 85.6 | 87.2 | 88.6 | 90.5 | 92.6 | 94.3 | 98.9 | 105.6 | 108.0 | 109.3 | 142.0 |
| DATE | 06-08-76 | 315 | 82.2 | 86.4 | 85.9 | 87.7 | 90.1 | 90.9 | 91.6 | 94.0 | 96.7 | 101.3 | 107.0 | 111.2 | 143.9 |
| RUN | CONF7TEMPDEP | 400 | 84.2 | 86.0 | 87.8 | 89.8 | 91.0 | 91.6 | 95.0 | 97.7 | 103.5 | 109.5 | 112.4 | 112.0 | 145.7 |
| TAPE | X71030 | 500 | 85.3 | 86.0 | 87.5 | 88.3 | 90.2 | 92.0 | 95.8 | 99.0 | 105.6 | 109.8 | 113.0 | 111.8 | 146.2 |
| BAR | 29.4 HG | 630 | 85.9 | 87.9 | 88.6 | 89.9 | 91.3 | 94.5 | 97.2 | 103.6 | 106.0 | 109.4 | 112.9 | 111.6 | 146.2 |
| (99347. N/MZ) | | 800 | 87.9 | 89.4 | 89.9 | 91.7 | 92.8 | 94.4 | 95.8 | 98.4 | 102.2 | 107.0 | 109.4 | 111.9 | 145.2 |
| TAMB | 73. DEG F | 1000 | 90.3 | 90.7 | 92.2 | 93.0 | 94.1 | 95.2 | 96.6 | 99.3 | 102.2 | 107.1 | 108.5 | 110.2 | 145.2 |
| (296. DEG K) | | 1250 | 90.3 | 91.1 | 93.1 | 93.9 | 94.2 | 96.1 | 97.2 | 100.4 | 103.8 | 107.2 | 107.9 | 110.3 | 145.4 |
| TWET | 65. DEG F | 1600 | 90.6 | 92.2 | 92.2 | 93.7 | 94.6 | 96.7 | 97.6 | 100.5 | 104.2 | 107.3 | 108.2 | 110.4 | 145.6 |
| (291. DEG K) | | 2000 | 92.2 | 92.5 | 93.5 | 93.8 | 95.4 | 96.5 | 98.6 | 101.8 | 104.2 | 107.1 | 107.8 | 111.2 | 145.8 |
| HACT12.89 | GM/M3 | 2500 | 94.0 | 93.6 | 94.3 | 95.1 | 96.0 | 97.1 | 98.5 | 101.4 | 103.3 | 106.2 | 107.1 | 111.0 | 145.7 |
| (.01289 | KG/M3) | 3150 | 93.0 | 94.1 | 95.1 | 95.9 | 96.9 | 97.3 | 98.7 | 102.4 | 104.8 | 106.4 | 107.9 | 111.8 | 146.1 |
| FREQ. SHIFT | | 4000 | 91.0 | 92.6 | 93.6 | 95.4 | 97.0 | 97.6 | 98.5 | 102.6 | 104.9 | 106.0 | 107.4 | 110.1 | 145.3 |
| JET | 0 | 5000 | 90.9 | 92.5 | 93.2 | 95.0 | 96.3 | 98.2 | 99.1 | 102.8 | 104.2 | 105.3 | 107.0 | 109.4 | 145.0 |
| DIAMETER RATIO | | 6300 | 90.5 | 92.3 | 93.3 | 94.3 | 96.4 | 98.0 | 100.4 | 102.1 | 104.1 | 104.0 | 106.1 | 108.8 | 144.6 |
| DF/DM | 1.00 | 8000 | 89.5 | 91.6 | 92.2 | 94.7 | 96.5 | 98.1 | 99.2 | 102.2 | 104.2 | 103.6 | 105.0 | 107.3 | 144.2 |
| OVERALL MEASURED | | 10000 | 88.2 | 91.5 | 91.9 | 93.4 | 96.4 | 97.0 | 98.9 | 101.4 | 103.4 | 102.1 | 103.2 | 106.8 | 143.7 |
| OVERALL CALCULATED | | 12500 | 86.1 | 89.6 | 91.0 | 92.7 | 94.2 | 95.4 | 98.0 | 98.8 | 101.0 | 99.7 | 101.1 | 104.1 | 142.0 |
| PNOB | | 16000 | 83.7 | 87.7 | 89.4 | 91.6 | 93.9 | 93.7 | 96.9 | 97.1 | 100.4 | 97.7 | 99.3 | 103.0 | 141.5 |
| | | 20000 | 80.9 | 84.0 | 85.9 | 88.5 | 92.3 | 91.6 | 94.0 | 93.6 | 97.2 | 94.5 | 95.1 | 99.0 | 139.3 |
| | | 25000 | 78.3 | 81.9 | 83.0 | 85.6 | 87.8 | 88.3 | 89.0 | 90.7 | 94.0 | 90.7 | 93.5 | 93.8 | 137.2 |
| | | 31500 | 76.1 | 79.5 | 81.7 | 83.9 | 85.9 | 87.3 | 87.9 | 90.8 | 87.1 | 89.8 | 93.7 | 91.6 | 136.9 |
| | | 40000 | 71.1 | 75.5 | 78.7 | 80.4 | 82.2 | 81.5 | 83.0 | 82.9 | 86.5 | 84.4 | 86.2 | 89.0 | 136.1 |
| | | 50000 | 65.3 | 69.1 | 73.4 | 74.1 | 76.2 | 75.3 | 74.8 | 76.0 | 79.7 | 78.2 | 80.8 | 82.3 | 133.9 |
| | | 63000 | 60.0 | 63.6 | 69.6 | 67.9 | 72.9 | 68.6 | 68.1 | 69.4 | 73.3 | 73.0 | 76.5 | 74.6 | 134.5 |
| | | 80000 | 55.9 | 60.4 | 68.0 | 62.6 | 69.4 | 63.5 | 64.0 | 62.2 | 68.3 | 70.7 | 72.4 | 70.2 | 139.7 |
| OVERALL CALCULATED | | 102.5 | 104.0 | 105.0 | 106.2 | 107.8 | 108.9 | 110.5 | 113.1 | 115.8 | 118.0 | 120.3 | 123.3 | 122.4 | 158.2 |
| PNOB | | 115.7 | 117.1 | 118.1 | 119.1 | 120.4 | 121.4 | 122.7 | 125.9 | 128.4 | 130.4 | 132.3 | 135.5 | 132.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7103 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

| RDG. NO. | C. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | | | | |
|--------------------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
| 50 | 82.6 | 86.2 | 87.7 | 87.5 | 89.1 | 90.4 | 92.3 | 94.5 | 96.2 | 100.7 | 107.4 | 109.9 | 111.2 | 115.3 | 157.2 | | | |
| 63 | 84.0 | 88.3 | 87.8 | 89.6 | 91.9 | 92.8 | 93.4 | 95.8 | 98.5 | 103.1 | 108.8 | 112.2 | 113.0 | 158.9 | | | | |
| 80 | 86.0 | 87.8 | 90.1 | 89.6 | 91.7 | 92.8 | 93.4 | 96.8 | 99.6 | 105.4 | 111.3 | 114.3 | 113.8 | 159.0 | | | | |
| 100 | 87.1 | 87.9 | 89.4 | 90.2 | 92.0 | 93.9 | 94.8 | 97.2 | 100.9 | 107.5 | 111.7 | 114.8 | 113.6 | 159.5 | | | | |
| 125 | 87.7 | 89.7 | 90.5 | 91.8 | 93.1 | 95.0 | 96.4 | 99.0 | 102.5 | 107.8 | 111.3 | 114.7 | 113.5 | 159.5 | | | | |
| 160 | 89.7 | 91.2 | 91.8 | 93.5 | 94.6 | 96.2 | 97.6 | 100.3 | 104.3 | 108.8 | 111.3 | 113.7 | 113.5 | 159.5 | | | | |
| 200 | 91.8 | 92.6 | 94.1 | 94.9 | 96.0 | 97.1 | 98.5 | 101.1 | 104.1 | 108.9 | 110.4 | 112.0 | 112.3 | 158.7 | | | | |
| 250 | 92.1 | 92.9 | 94.9 | 95.7 | 96.1 | 97.9 | 99.1 | 102.2 | 105.7 | 109.0 | 109.7 | 112.1 | 112.7 | 158.9 | | | | |
| 315 | 92.5 | 94.0 | 94.0 | 95.6 | 96.4 | 98.5 | 99.4 | 102.3 | 106.0 | 109.1 | 110.1 | 112.3 | 112.5 | 159.1 | | | | |
| 400 | 94.0 | 94.3 | 95.4 | 95.6 | 97.2 | 98.3 | 100.5 | 103.6 | 106.1 | 108.9 | 109.6 | 113.1 | 111.8 | 159.2 | | | | |
| 500 | 95.9 | 95.5 | 96.2 | 97.0 | 97.8 | 99.0 | 100.3 | 103.3 | 107.2 | 108.1 | 109.0 | 112.9 | 111.2 | 159.1 | | | | |
| 630 | 94.9 | 96.0 | 97.0 | 97.8 | 98.9 | 99.2 | 100.6 | 104.3 | 106.7 | 108.3 | 109.8 | 113.7 | 110.5 | 159.4 | | | | |
| 800 | 93.0 | 94.5 | 95.6 | 97.3 | 98.9 | 99.5 | 100.4 | 104.6 | 106.8 | 107.9 | 109.4 | 112.0 | 107.0 | 158.6 | | | | |
| 1000 | 92.9 | 94.4 | 95.2 | 97.0 | 98.3 | 100.2 | 101.1 | 104.7 | 106.2 | 107.3 | 109.0 | 111.4 | 107.4 | 158.3 | | | | |
| 1250 | 92.5 | 94.4 | 95.4 | 96.4 | 98.5 | 100.1 | 102.5 | 104.2 | 106.2 | 106.0 | 108.2 | 110.8 | 107.6 | 158.0 | | | | |
| 1600 | 91.7 | 93.8 | 94.4 | 96.9 | 98.7 | 100.3 | 101.5 | 104.4 | 106.4 | 105.8 | 107.2 | 109.6 | 106.8 | 157.5 | | | | |
| 2000 | 90.6 | 94.0 | 94.3 | 95.8 | 98.9 | 99.5 | 101.4 | 103.8 | 105.8 | 104.5 | 105.7 | 109.3 | 107.0 | 157.0 | | | | |
| 2500 | 88.9 | 92.4 | 93.8 | 95.5 | 97.0 | 98.1 | 100.8 | 101.6 | 103.8 | 102.5 | 103.9 | 106.9 | 105.4 | 155.3 | | | | |
| 3150 | 87.0 | 91.1 | 92.8 | 94.9 | 97.2 | 97.1 | 100.2 | 100.5 | 103.8 | 101.0 | 102.6 | 106.4 | 104.6 | 154.8 | | | | |
| 4000 | 85.0 | 88.1 | 89.9 | 92.6 | 96.3 | 95.7 | 98.1 | 97.6 | 101.2 | 98.5 | 99.1 | 103.0 | 102.4 | 152.6 | | | | |
| 5000 | 83.6 | 87.2 | 88.4 | 90.9 | 93.1 | 93.6 | 94.4 | 96.0 | 99.4 | 96.1 | 98.8 | 99.2 | 100.2 | 150.5 | | | | |
| 6300 | 83.1 | 86.4 | 88.7 | 90.8 | 92.8 | 92.8 | 94.2 | 94.9 | 97.7 | 94.1 | 96.7 | 100.6 | 98.6 | 150.2 | | | | |
| 8000 | 80.4 | 84.8 | 88.0 | 89.7 | 91.5 | 90.8 | 92.3 | 92.2 | 95.7 | 93.7 | 95.5 | 98.3 | 98.1 | 147.5 | | | | |
| 10000 | 77.7 | 81.4 | 85.7 | 86.4 | 88.5 | 87.6 | 87.1 | 88.4 | 92.0 | 90.6 | 93.1 | 94.6 | 93.6 | 147.2 | | | | |
| 12500 | 76.7 | 80.3 | 86.3 | 84.7 | 89.7 | 85.3 | 84.9 | 86.2 | 90.1 | 89.8 | 93.3 | 91.4 | 91.9 | 147.8 | | | | |
| 15000 | 79.1 | 83.6 | 91.1 | 85.7 | 92.5 | 86.7 | 87.1 | 85.3 | 91.4 | 93.8 | 95.5 | 93.3 | 92.2 | 153.0 | | | | |
| OVERALL CALCULATED | 104.5 | 106.0 | 107.1 | 108.4 | 110.1 | 111.1 | 112.6 | 115.2 | 117.9 | 119.9 | 122.2 | 125.1 | 124.1 | | | | | |
| PNB3 | 114.4 | 117.0 | 118.4 | 120.1 | 122.1 | 122.6 | 124.7 | 126.3 | 129.1 | 128.8 | 130.6 | 133.7 | 132.1 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7/03** ACOUSTIC RANGE **45.7m(150ft.)** ARC **7/03** SIZE **FULL-.33m²(513in²)**

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | REL. HUM. DAY |
|--|---|------|------|------|------|---------------|
| | 40. | 50. | 60. | 70. | 80. | |
| 53 | 54.5 | 59.6 | 62.2 | 62.7 | 64.7 | 66.2 |
| 63 | 55.7 | 61.6 | 62.2 | 64.7 | 67.5 | 68.5 |
| 80 | 57.7 | 61.1 | 64.4 | 64.7 | 67.2 | 68.5 |
| 125 | 59.1 | 62.8 | 64.7 | 66.7 | 68.5 | 70.5 |
| 160 | 61.0 | 64.2 | 65.8 | 68.4 | 69.9 | 71.7 |
| 200 | 62.3 | 65.3 | 68.0 | 69.6 | 71.1 | 72.4 |
| 250 | 62.9 | 65.5 | 68.7 | 70.2 | 71.0 | 73.0 |
| 315 | 63.0 | 66.3 | 67.5 | 69.9 | 71.2 | 73.4 |
| 400 | 64.1 | 66.2 | 68.5 | 69.6 | 71.7 | 73.0 |
| 500 | 65.4 | 66.9 | 69.0 | 70.6 | 72.0 | 74.5 |
| 630 | 63.7 | 66.8 | 69.3 | 70.9 | 72.5 | 73.1 |
| 800 | 60.9 | 64.7 | 67.2 | 69.9 | 72.0 | 72.8 |
| 1000 | 59.7 | 63.7 | 66.0 | 68.8 | 70.7 | 72.8 |
| 1250 | 58.0 | 62.4 | 65.2 | 67.4 | 70.1 | 71.9 |
| 1600 | 55.2 | 60.3 | 62.3 | 66.5 | 69.0 | 70.9 |
| 2000 | 51.8 | 58.6 | 61.1 | 63.9 | 67.7 | 68.6 |
| 2500 | 46.7 | 54.2 | 58.0 | 61.3 | 63.7 | 65.1 |
| 3150 | 39.5 | 48.3 | 53.1 | 57.2 | 60.5 | 60.7 |
| 4000 | 29.4 | 38.6 | 44.4 | 49.4 | 54.4 | 54.2 |
| 5000 | 23.3 | 33.8 | 39.3 | 44.6 | 48.2 | 49.2 |
| 6300 | 9.0 | 21.6 | 29.6 | 35.3 | 39.2 | 39.7 |
| 8000 | | 2.4 | 13.5 | 20.0 | 24.4 | 24.5 |
| 10000 | | | | | 2.5 | 2.8 |
| 12500 | | | | | | 1.2 |
| 16000 | | | | | | |
| OVERALL CALCULATED | 73.3 | 76.4 | 78.7 | 80.7 | 82.5 | 84.0 |
| | 79.4 | 82.1 | 84.3 | 87.3 | 90.1 | 91.4 |

| LEVELS FROM INLET IN DEGREES (AND RADIAN) | 120. | 130. | 140. | 150. | 160. |
|---|------|------|------|------|------|
| (2.09) | 73.7 | 74.1 | 79.3 | 79.4 | 77.3 |
| (2.44) | 76.4 | 80.6 | 81.7 | 79.0 | 79.0 |
| (2.62) | 73.9 | 78.6 | 83.0 | 83.6 | 79.6 |
| (2.79) | 75.2 | 80.6 | 83.2 | 84.1 | 79.2 |
| (3.0) | 75.0 | 80.9 | 82.7 | 83.8 | 78.5 |
| (3.2) | 78.1 | 81.7 | 82.5 | 82.5 | 78.8 |
| (3.4) | 78.0 | 81.7 | 81.4 | 80.6 | 77.0 |
| (3.6) | 79.4 | 81.5 | 80.5 | 80.4 | 76.8 |
| (3.8) | 79.5 | 81.4 | 80.3 | 80.0 | 76.0 |
| (4.0) | 79.3 | 80.8 | 79.6 | 80.3 | 74.5 |
| (4.2) | 79.0 | 79.5 | 78.5 | 79.5 | 72.8 |
| (4.4) | 77.4 | 79.0 | 78.6 | 79.3 | 70.8 |
| (4.6) | 77.2 | 78.4 | 77.3 | 76.5 | 65.6 |
| (4.8) | 76.6 | 77.0 | 76.5 | 75.8 | 63.9 |
| (5.0) | 74.1 | 76.0 | 74.1 | 73.7 | 61.5 |
| (5.2) | 74.3 | 72.2 | 70.7 | 68.4 | 57.0 |
| (5.4) | 71.9 | 72.6 | 69.1 | 66.9 | 52.8 |
| (5.6) | 67.5 | 68.0 | 64.2 | 61.7 | 58.4 |
| (5.8) | 64.1 | 58.3 | 55.1 | 50.8 | 33.6 |
| (6.0) | 55.6 | 49.1 | 43.5 | 37.0 | 16.0 |
| (6.2) | 50.4 | 42.7 | 38.5 | 27.0 | 4.8 |
| (6.4) | 39.3 | 38.6 | 29.3 | 22.7 | 10.6 |
| (6.6) | 22.5 | 21.2 | 11.3 | 0.3 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7103 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²)

RDG. NO. 0. 63
 RADIAL 40. FT. 100
 VEHICLE CELL41 125
 CONFIG NC54 200
 LOC C41 ANECH CH 250
 DATE 06-10-76 315
 RUN CONF7TEMPDEP 400
 TAPE X71040 500
 BAR 29.4 HG 630
 (99246. N/M2) 800
 TAMB 68. DEG F 1000
 (293. DEG K) 1250
 TWET 63. DEG F 1600
 (290. DEG K) 2000
 HACT12.94 GM/M3 2500
 (-.01294 KG/M3) 3150
 JET 0 4000
 DIAMETER RATIO 6300
 DF/DH 1.00 8000

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 79.6 | 89.7 | 87.2 | 88.5 | 89.8 | 89.9 | 90.5 | 90.2 | 91.4 | 93.7 | 97.2 | 96.9 | 99.4 | 134.5 | | | | |
| 77.6 | 82.6 | 84.6 | 86.2 | 88.0 | 89.1 | 90.0 | 89.9 | 89.7 | 89.2 | 97.6 | 99.3 | 100.1 | 134.4 | | | | |
| 125 | 78.4 | 81.7 | 84.7 | 86.7 | 88.2 | 89.8 | 86.7 | 89.1 | 94.2 | 99.7 | 100.1 | 102.2 | 135.5 | | | | |
| 200 | 81.0 | 82.0 | 83.0 | 84.6 | 85.4 | 86.3 | 87.4 | 88.8 | 93.0 | 97.4 | 101.6 | 105.3 | 139.2 | | | | |
| 250 | 80.6 | 83.3 | 84.8 | 84.9 | 86.7 | 89.7 | 90.4 | 93.6 | 99.2 | 105.1 | 107.0 | 107.2 | 141.0 | | | | |
| 315 | 81.4 | 85.9 | 84.9 | 86.2 | 88.8 | 90.8 | 92.2 | 95.7 | 101.8 | 107.2 | 109.6 | 109.7 | 143.3 | | | | |
| 400 | 83.9 | 85.7 | 87.2 | 87.5 | 88.6 | 90.0 | 91.6 | 97.5 | 104.5 | 109.7 | 110.9 | 109.7 | 144.8 | | | | |
| 500 | 84.5 | 85.8 | 87.3 | 88.1 | 89.4 | 91.8 | 92.4 | 94.1 | 98.8 | 105.9 | 110.1 | 111.3 | 145.4 | | | | |
| 630 | 85.4 | 86.9 | 87.9 | 88.9 | 91.0 | 94.3 | 95.7 | 108.1 | 106.0 | 109.7 | 111.6 | 110.4 | 145.5 | | | | |
| 800 | 86.9 | 88.7 | 89.2 | 90.2 | 92.0 | 93.4 | 95.3 | 96.7 | 101.4 | 106.5 | 108.9 | 110.9 | 145.3 | | | | |
| 1000 | 88.7 | 90.2 | 91.5 | 91.8 | 92.4 | 94.5 | 96.4 | 97.5 | 102.0 | 106.6 | 107.8 | 108.4 | 144.5 | | | | |
| 1250 | 88.3 | 90.3 | 91.8 | 92.4 | 93.2 | 94.8 | 96.2 | 98.4 | 102.6 | 106.7 | 106.6 | 108.8 | 144.3 | | | | |
| 1600 | 88.4 | 90.9 | 92.0 | 92.2 | 93.6 | 95.9 | 96.6 | 98.0 | 102.7 | 107.3 | 108.0 | 108.9 | 144.8 | | | | |
| 2000 | 88.7 | 90.2 | 92.3 | 94.1 | 95.5 | 97.4 | 98.5 | 103.0 | 106.3 | 106.3 | 107.7 | 107.5 | 143.9 | | | | |
| 2500 | 88.8 | 90.3 | 92.3 | 92.6 | 94.2 | 95.6 | 97.5 | 99.1 | 103.3 | 105.9 | 106.1 | 107.8 | 143.9 | | | | |
| 3150 | 89.0 | 90.8 | 91.8 | 92.6 | 94.7 | 95.5 | 97.7 | 99.6 | 103.3 | 105.7 | 106.6 | 107.8 | 144.0 | | | | |
| 4000 | 88.3 | 89.8 | 91.1 | 91.9 | 93.7 | 95.6 | 97.2 | 99.6 | 102.3 | 105.2 | 105.6 | 106.8 | 143.2 | | | | |
| 5000 | 87.4 | 89.4 | 91.2 | 92.8 | 93.8 | 95.9 | 97.1 | 99.5 | 102.0 | 103.6 | 105.5 | 105.9 | 142.7 | | | | |
| 6300 | 87.0 | 89.0 | 90.3 | 91.8 | 94.7 | 96.5 | 98.2 | 99.8 | 101.8 | 103.2 | 104.1 | 105.5 | 142.6 | | | | |
| 8000 | 86.0 | 88.1 | 88.9 | 91.6 | 93.5 | 96.1 | 98.2 | 98.9 | 101.4 | 102.5 | 103.4 | 104.6 | 142.1 | | | | |
| 10000 | 84.1 | 87.8 | 88.9 | 90.6 | 93.2 | 93.8 | 96.7 | 98.1 | 100.4 | 101.5 | 101.9 | 104.0 | 141.5 | | | | |
| 12500 | 82.0 | 85.6 | 86.9 | 88.6 | 91.4 | 92.6 | 95.9 | 96.5 | 98.4 | 98.9 | 99.8 | 102.3 | 140.1 | | | | |
| 16000 | 80.6 | 83.9 | 85.3 | 88.0 | 90.3 | 90.9 | 94.8 | 94.3 | 97.6 | 97.3 | 97.4 | 100.7 | 139.4 | | | | |
| 20000 | 77.8 | 81.4 | 83.5 | 85.4 | 88.4 | 89.0 | 92.7 | 91.2 | 94.3 | 93.3 | 93.4 | 96.1 | 137.0 | | | | |
| 25000 | 74.7 | 78.5 | 80.1 | 82.2 | 84.9 | 85.4 | 87.1 | 88.5 | 91.6 | 89.8 | 91.6 | 90.9 | 135.0 | | | | |
| 31500 | 72.2 | 76.8 | 79.0 | 79.9 | 82.7 | 82.9 | 85.3 | 85.2 | 87.5 | 85.9 | 87.3 | 90.5 | 134.3 | | | | |
| 40000 | 68.9 | 72.7 | 76.6 | 77.1 | 78.2 | 78.2 | 80.7 | 80.3 | 83.4 | 82.5 | 83.3 | 84.9 | 133.2 | | | | |
| 50000 | 64.5 | 68.1 | 71.9 | 71.8 | 72.3 | 73.4 | 72.1 | 76.2 | 75.7 | 77.8 | 77.8 | 78.9 | 130.8 | | | | |
| 63000 | 59.7 | 62.7 | 67.9 | 66.3 | 66.0 | 65.7 | 65.8 | 65.0 | 69.9 | 69.0 | 71.8 | 70.5 | 130.7 | | | | |
| 80000 | 57.2 | 60.1 | 66.0 | 62.6 | 63.3 | 62.2 | 63.3 | 57.8 | 65.6 | 63.0 | 68.4 | 65.7 | 136.3 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 99.6 | 101.9 | 103.0 | 104.0 | 105.8 | 107.3 | 109.2 | 110.6 | 114.1 | 117.6 | 119.7 | 121.3 | 120.9 | | | | |
| PMBD | 112.5 | 114.6 | 115.7 | 116.6 | 118.4 | 119.8 | 121.3 | 123.3 | 126.8 | 129.2 | 131.4 | 132.7 | 132.3 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7109 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | 40. 50. 60. 70. 80. | | | | | 90. 100. 110. 120. 130. 140. 150. 160. | | | | | PWL | | | |
|--------------------|---------------------|--------|--------|--------|--------|--|--------|--------|--------|--------|-------|--------|--------|-------|
| | (0.75) | (1.05) | (1.22) | (1.42) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | | (2.62) | (2.79) | |
| NO EGA | 50 | 82.4 | 85.2 | 85.7 | 86.7 | 88.6 | 89.4 | 91.6 | 92.2 | 95.4 | 101.0 | 106.9 | 109.7 | 154.3 |
| RDG. NO. C. | 63 | 83.2 | 87.8 | 86.8 | 88.1 | 90.7 | 91.3 | 92.7 | 94.1 | 97.5 | 103.6 | 109.0 | 111.5 | 156.6 |
| RADIAL 150. FT. | 80 | 85.8 | 87.5 | 89.1 | 89.3 | 90.4 | 91.8 | 93.4 | 94.8 | 99.3 | 106.4 | 111.6 | 112.8 | 158.1 |
| (46. M) | 100 | 86.4 | 87.6 | 89.1 | 89.9 | 91.3 | 93.6 | 94.3 | 95.9 | 103.6 | 107.7 | 111.9 | 112.1 | 158.7 |
| VEHICLE CELL41 | 125 | 87.2 | 88.7 | 89.7 | 90.8 | 92.9 | 94.0 | 96.1 | 97.5 | 102.0 | 107.8 | 111.5 | 113.4 | 158.8 |
| CONFIG NCS4 | 160 | 88.7 | 90.5 | 91.0 | 92.0 | 93.9 | 95.2 | 97.1 | 98.5 | 103.3 | 108.3 | 110.8 | 112.7 | 153.6 |
| LOC C41 ANECH CH | 200 | 90.5 | 92.1 | 93.3 | 93.6 | 94.2 | 96.3 | 98.2 | 99.4 | 103.8 | 108.4 | 109.6 | 110.3 | 157.8 |
| DATE 06-10-76 | 250 | 90.1 | 92.2 | 93.7 | 94.2 | 95.1 | 96.7 | 98.1 | 100.2 | 104.4 | 108.5 | 108.5 | 110.6 | 158.1 |
| RUN. CONFIGIEMDEP | 315 | 90.2 | 92.8 | 93.8 | 94.1 | 95.4 | 97.8 | 98.4 | 99.8 | 104.5 | 109.1 | 109.8 | 110.7 | 157.2 |
| TAPE X71040 | 400 | 90.5 | 92.1 | 93.8 | 94.1 | 96.0 | 97.3 | 99.2 | 101.4 | 104.8 | 108.2 | 108.1 | 109.5 | 157.3 |
| BAR 29.4 HG | 500 | 90.7 | 92.2 | 94.2 | 94.5 | 96.1 | 97.3 | 99.3 | 101.0 | 105.2 | 109.8 | 108.0 | 109.2 | 156.5 |
| (99246. N/M2) | 630 | 90.9 | 92.7 | 93.7 | 94.5 | 96.6 | 97.5 | 99.6 | 101.5 | 105.2 | 107.6 | 108.5 | 109.2 | 156.0 |
| TAMB 68. DEG F | 800 | 90.2 | 91.8 | 93.1 | 93.8 | 95.7 | 97.5 | 99.2 | 101.6 | 104.3 | 107.2 | 107.6 | 108.8 | 155.9 |
| (293. DEG K) | 1000 | 89.4 | 91.4 | 93.2 | 94.7 | 95.8 | 97.9 | 99.1 | 101.5 | 104.0 | 105.6 | 107.5 | 107.9 | 155.6 |
| TWET 63. DEG F | 1250 | 89.0 | 91.1 | 92.4 | 93.9 | 96.7 | 98.6 | 100.2 | 101.9 | 103.9 | 105.2 | 106.2 | 107.6 | 154.8 |
| (290. DEG K) | 1600 | 88.2 | 90.3 | 91.1 | 93.9 | 95.7 | 98.3 | 100.4 | 101.1 | 103.6 | 104.7 | 105.7 | 106.8 | 153.6 |
| HACT12.94 GM/M3 | 2000 | 86.6 | 90.2 | 91.3 | 93.0 | 95.6 | 96.2 | 99.1 | 100.5 | 102.8 | 104.0 | 104.4 | 106.5 | 152.7 |
| (.01294 KG/M3) | 2500 | 84.8 | 88.3 | 89.7 | 91.4 | 94.2 | 95.3 | 98.7 | 99.3 | 101.2 | 101.7 | 102.6 | 105.1 | 150.3 |
| FREQ. SHIFT | 3150 | 84.0 | 87.2 | 88.7 | 91.4 | 93.6 | 94.2 | 98.1 | 97.7 | 103.9 | 100.7 | 100.8 | 104.1 | 148.3 |
| JET 7 | 4000 | 81.9 | 85.5 | 87.6 | 89.5 | 92.5 | 93.1 | 96.7 | 95.3 | 98.3 | 97.4 | 97.5 | 100.2 | 147.5 |
| DIAMETER RATIO | 5000 | 80.0 | 83.8 | 85.4 | 87.5 | 90.2 | 90.7 | 92.5 | 93.9 | 97.0 | 95.1 | 96.9 | 96.2 | 146.5 |
| DF/DM 4.63 | 6300 | 79.1 | 83.7 | 85.9 | 86.9 | 89.6 | 89.8 | 92.3 | 92.1 | 94.4 | 92.8 | 94.2 | 97.4 | 144.1 |
| OVERALL CALCULATED | 8000 | 78.1 | 82.0 | 85.9 | 86.4 | 87.5 | 87.5 | 90.0 | 89.6 | 92.6 | 91.8 | 92.6 | 94.2 | 149.7 |
| | 10000 | 76.8 | 80.5 | 84.2 | 84.2 | 84.1 | 84.7 | 85.7 | 84.4 | 88.5 | 88.0 | 90.1 | 91.2 | 169.9 |
| | 12500 | 76.5 | 79.5 | 84.6 | 83.1 | 82.8 | 82.5 | 82.6 | 81.8 | 86.7 | 85.8 | 88.6 | 87.3 | |
| | 16000 | 80.3 | 83.2 | 89.1 | 85.8 | 86.4 | 85.3 | 86.5 | 80.9 | 88.9 | 86.2 | 91.5 | 88.8 | |
| | PMD8 | 111.1 | 114.0 | 115.5 | 117.2 | 119.2 | 120.3 | 123.0 | 123.8 | 126.8 | 128.2 | 129.3 | 131.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7/04 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
(731.52 M) | SIDELINE 2400. FT.
(731.52 M) | NFA
(1. RPM) | NFK
(1. RPM) | MFD
(7500 RPM) | AIRFLOW RATIO
WF/MH 4.63 | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | C. G. (C. G.) (C. G.) (C. G.) | | | |
|----------------------|----------------------------------|-----------------|-----------------|-------------------|-----------------------------|---|---------------|---------------|---------------|-------------------------------|------|------|------|
| | | | | | | 40.
(0.70) | 50.
(0.87) | 60.
(1.05) | 70.
(1.22) | | | | |
| 50 | 54.2 | 58.6 | 61.1 | 61.9 | 64.2 | 65.2 | 67.2 | 67.4 | 69.9 | 74.4 | 78.8 | 75.8 | 160. |
| 63 | 55.0 | 61.1 | 61.2 | 63.2 | 66.2 | 67.0 | 68.2 | 69.2 | 72.0 | 76.9 | 80.8 | 81.0 | 77.5 |
| 80 | 57.4 | 60.8 | 63.4 | 64.4 | 66.0 | 67.5 | 69.0 | 69.9 | 73.7 | 79.6 | 83.2 | 82.1 | 77.4 |
| 100 | 57.9 | 60.8 | 63.4 | 65.0 | 66.7 | 69.2 | 69.7 | 71.0 | 74.9 | 80.9 | 83.5 | 82.3 | 77.7 |
| 125 | 58.6 | 61.8 | 63.9 | 65.7 | 68.2 | 69.5 | 71.5 | 72.5 | 76.2 | 80.9 | 82.9 | 82.5 | 77.6 |
| 160 | 60.0 | 63.4 | 65.1 | 66.9 | 69.1 | 70.6 | 72.4 | 73.4 | 77.3 | 81.2 | 82.0 | 81.5 | 77.0 |
| 200 | 61.6 | 64.8 | 67.2 | 68.3 | 69.3 | 71.6 | 73.3 | 74.1 | 77.7 | 81.2 | 80.7 | 78.9 | 76.2 |
| 250 | 60.9 | 64.7 | 67.4 | 68.7 | 70.0 | 71.8 | 73.0 | 74.7 | 78.2 | 81.0 | 79.2 | 74.8 | 74.5 |
| 315 | 60.7 | 65.0 | 66.3 | 68.4 | 70.2 | 72.7 | 73.2 | 74.1 | 78.0 | 81.4 | 80.3 | 78.5 | 74.5 |
| 400 | 60.6 | 64.0 | 67.0 | 68.1 | 70.2 | 71.9 | 73.7 | 75.4 | 78.1 | 80.1 | 78.1 | 76.8 | 72.0 |
| 500 | 60.1 | 63.6 | 67.0 | 68.1 | 70.2 | 71.7 | 73.5 | 74.6 | 78.0 | 79.2 | 77.5 | 76.2 | 70.8 |
| 630 | 59.7 | 63.6 | 66.0 | 67.7 | 70.3 | 71.3 | 73.3 | 74.7 | 77.5 | 78.4 | 77.3 | 75.3 | 69.5 |
| 800 | 58.1 | 61.9 | 64.7 | 66.4 | 68.8 | 70.8 | 72.3 | 74.2 | 75.9 | 77.3 | 75.5 | 73.2 | 65.4 |
| 1000 | 56.2 | 60.6 | 64.0 | 66.6 | 68.2 | 70.5 | 71.5 | 73.3 | 74.8 | 74.8 | 74.3 | 71.0 | 63.2 |
| 1250 | 54.5 | 59.2 | 62.2 | 64.8 | 68.3 | 70.3 | 71.8 | 72.8 | 73.7 | 73.3 | 71.6 | 68.9 | 61.0 |
| 1600 | 51.7 | 56.8 | 59.5 | 63.5 | 66.0 | 68.8 | 70.8 | 70.7 | 72.0 | 71.2 | 69.2 | 65.6 | 55.7 |
| 2000 | 47.8 | 54.8 | 58.0 | 61.1 | 64.5 | 68.0 | 68.6 | 69.5 | 68.5 | 65.6 | 62.3 | 52.0 | |
| 2500 | 42.7 | 50.1 | 54.0 | 57.3 | 60.9 | 62.3 | 65.4 | 65.2 | 65.5 | 63.4 | 60.4 | 56.6 | 43.9 |
| 3150 | 36.4 | 44.5 | 49.0 | 53.6 | 56.9 | 57.8 | 61.4 | 59.9 | 61.2 | 58.0 | 53.3 | 48.5 | 33.5 |
| 4000 | 26.3 | 36.0 | 42.0 | 46.3 | 50.6 | 51.6 | 54.8 | 52.1 | 52.8 | 47.9 | 41.9 | 34.1 | 14.6 |
| 5000 | 19.7 | 30.4 | 36.4 | 41.2 | 45.3 | 46.3 | 47.6 | 47.5 | 47.9 | 41.8 | 36.6 | 24.1 | 3.1 |
| 6300 | 5.1 | 18.9 | 26.8 | 31.3 | 36.0 | 36.8 | 38.6 | 36.6 | 35.4 | 28.0 | 20.2 | 7.4 | |
| 8000 | | | 11.4 | 16.7 | 20.3 | 21.2 | 22.8 | 19.9 | 18.1 | | | | |
| 10000 | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | |
| OVERALL CALCULATED | 70.8 | 74.6 | 77.1 | 78.7 | 80.8 | 82.6 | 84.1 | 85.3 | 88.2 | 91.2 | 91.9 | 90.9 | 86.6 |
| F-ND8 | 75.0 | 79.4 | 82.5 | 84.9 | 87.6 | 89.5 | 91.4 | 91.9 | 94.0 | 95.7 | 94.9 | 93.0 | 87.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7104 ACoustic RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

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

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. PUL
 FREQ. (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)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PUL |
|--|--------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|
| 100 | 81.1 | 91.7 | 39.4 | 91.0 | 92.3 | 92.7 | 92.8 | 92.5 | 93.4 | 96.2 | 100.2 | 99.4 | 102.2 | 137.1 | | | | | |
| 125 | 80.8 | 85.9 | 87.4 | 89.2 | 91.0 | 92.9 | 93.0 | 93.2 | 92.1 | 92.4 | 101.4 | 102.8 | 103.4 | 137.8 | | | | | |
| 160 | 80.9 | 84.2 | 87.4 | 87.7 | 88.5 | 88.9 | 88.5 | 89.7 | 91.9 | 98.0 | 103.4 | 104.1 | 105.9 | 139.1 | | | | | |
| 200 | 84.3 | 85.3 | 85.8 | 87.6 | 88.4 | 89.8 | 91.2 | 92.1 | 95.3 | 101.4 | 105.3 | 108.8 | 110.0 | 142.6 | | | | | |
| 250 | 83.3 | 86.3 | 87.8 | 88.1 | 89.7 | 90.8 | 92.7 | 93.9 | 97.1 | 103.2 | 109.4 | 111.0 | 111.8 | 145.1 | | | | | |
| 315 | 84.9 | 86.9 | 87.9 | 89.5 | 91.6 | 93.4 | 94.3 | 95.5 | 99.4 | 106.5 | 112.0 | 114.4 | 113.4 | 147.7 | | | | | |
| 400 | 82.2 | 88.5 | 90.2 | 90.5 | 91.8 | 93.2 | 94.8 | 96.8 | 101.7 | 109.3 | 115.2 | 115.9 | 114.0 | 149.8 | | | | | |
| 500 | 87.5 | 88.8 | 90.0 | 90.8 | 92.4 | 94.5 | 97.8 | 103.3 | 111.1 | 116.1 | 116.8 | 114.5 | 150.7 | | | | | | |
| 630 | 88.6 | 90.6 | 90.9 | 92.2 | 93.8 | 95.1 | 97.5 | 104.9 | 112.0 | 117.7 | 117.8 | 115.4 | 151.6 | | | | | | |
| 800 | 90.9 | 92.2 | 92.4 | 93.7 | 95.5 | 96.7 | 98.3 | 100.4 | 105.9 | 112.7 | 116.9 | 118.4 | 115.9 | 152.1 | | | | | |
| 1000 | 94.0 | 95.0 | 95.2 | 95.8 | 96.9 | 98.0 | 99.1 | 101.5 | 107.0 | 112.3 | 116.0 | 116.9 | 115.5 | 151.4 | | | | | |
| 1250 | 93.0 | 95.6 | 96.6 | 97.5 | 98.8 | 100.2 | 102.4 | 107.8 | 111.9 | 116.1 | 117.8 | 115.6 | 151.7 | | | | | | |
| 1600 | 92.4 | 94.2 | 94.7 | 96.0 | 97.3 | 99.2 | 100.3 | 102.2 | 108.2 | 112.3 | 116.2 | 117.6 | 115.4 | 151.8 | | | | | |
| 2000 | 93.4 | 94.2 | 95.5 | 96.0 | 98.4 | 98.7 | 101.1 | 103.5 | 108.2 | 112.6 | 115.8 | 116.4 | 113.5 | 151.2 | | | | | |
| 2500 | 92.8 | 94.3 | 95.3 | 96.6 | 97.7 | 99.1 | 101.7 | 103.6 | 108.3 | 111.7 | 115.4 | 115.0 | 111.1 | 150.4 | | | | | |
| 3150 | 92.5 | 94.8 | 95.8 | 96.3 | 98.2 | 98.8 | 100.7 | 103.6 | 108.8 | 112.2 | 115.1 | 113.5 | 110.3 | 150.1 | | | | | |
| 4000 | 91.8 | 94.1 | 95.9 | 96.4 | 97.5 | 98.8 | 101.2 | 104.1 | 107.9 | 111.4 | 113.4 | 111.5 | 107.3 | 148.9 | | | | | |
| 5000 | 92.4 | 96.0 | 96.5 | 96.8 | 97.3 | 98.7 | 101.3 | 103.8 | 107.2 | 110.3 | 112.8 | 110.4 | 106.7 | 148.2 | | | | | |
| 6300 | 92.0 | 96.0 | 97.1 | 97.6 | 98.9 | 100.0 | 102.2 | 103.3 | 107.3 | 109.7 | 111.6 | 109.8 | 106.5 | 147.9 | | | | | |
| 8000 | 91.2 | 93.8 | 95.4 | 97.6 | 99.2 | 100.3 | 102.5 | 103.4 | 106.6 | 109.3 | 110.4 | 109.3 | 105.6 | 147.6 | | | | | |
| 10000 | 88.1 | 92.5 | 94.1 | 96.6 | 99.7 | 99.8 | 101.9 | 102.8 | 105.8 | 108.0 | 109.2 | 108.5 | 105.3 | 147.0 | | | | | |
| 12500 | 84.4 | 89.9 | 92.6 | 95.0 | 97.4 | 98.5 | 101.7 | 101.0 | 103.9 | 105.9 | 106.8 | 106.3 | 103.8 | 145.6 | | | | | |
| 20000 | 81.6 | 86.1 | 89.5 | 91.9 | 95.6 | 95.5 | 98.6 | 97.4 | 100.3 | 100.0 | 101.4 | 101.1 | 99.7 | 143.1 | | | | | |
| 25000 | 78.6 | 83.9 | 85.8 | 88.6 | 91.8 | 92.6 | 93.6 | 94.5 | 98.3 | 96.7 | 99.8 | 97.1 | 96.7 | 141.6 | | | | | |
| 31500 | 75.7 | 81.3 | 84.4 | 86.9 | 89.9 | 90.1 | 92.3 | 91.9 | 95.0 | 95.0 | 96.3 | 96.4 | 94.1 | 141.6 | | | | | |
| 40000 | 71.1 | 76.2 | 80.5 | 82.6 | 84.1 | 85.7 | 88.1 | 87.0 | 91.1 | 91.9 | 94.0 | 93.4 | 89.4 | 141.0 | | | | | |
| 50000 | 65.4 | 70.3 | 74.6 | 75.8 | 76.4 | 79.5 | 80.8 | 79.8 | 85.6 | 87.1 | 89.7 | 86.7 | 83.3 | 139.6 | | | | | |
| 63000 | 60.4 | 63.6 | 68.8 | 68.9 | 68.9 | 74.4 | 74.2 | 73.5 | 79.5 | 83.9 | 84.7 | 79.4 | 77.1 | 140.7 | | | | | |
| 80000 | 57.2 | 60.5 | 66.4 | 63.3 | 63.2 | 71.6 | 72.5 | 67.2 | 76.7 | 82.7 | 81.5 | 74.9 | 74.1 | 147.5 | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 103.8 106.4 107.4 108.5 110.2 111.2 113.3 114.8 119.2 123.4 127.1 127.7 125.6 | | | | | | | | | | | | | | | | | | | |
| PNDB 116.4 118.9 119.8 120.6 122.2 123.2 125.2 127.5 131.9 135.8 139.1 138.8 136.0 | | | | | | | | | | | | | | | | | | | |

CONFIGURATION 7 7107 TEST POINT ACOUSTIC RANGE MODEL-154cm²(23.9in²)
 12.2m(40ft.) ARC SIZE

ANECHOIC JET NOISE TEST FACILITY RESULTS

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM FULL SIZE SOUND PRESSURE LEVELS

| RDG. NO. | NO. EGA | RADIAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUM | TAP | SAR | TAMB. | TWTET | HACT | FREQ. | LEVELS | | ANGLES FROM INLET DATA | | PROC. DATE | | | | | |
|--------------------|---------|-----------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------------------------|-------|------------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. |
| 50 | 85.1 | 88.2 | 89.7 | 90.0 | 91.6 | 92.7 | 94.6 | 95.3 | 96.2 | 97.3 | 98.6 | 100.1 | 100.7 | 102.6 | 103.3 | 105.7 | 110.1 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 165.0 |
| 63 | 86.7 | 90.8 | 89.8 | 91.3 | 93.4 | 92.3 | 95.0 | 96.2 | 97.3 | 98.6 | 100.1 | 102.6 | 103.3 | 105.7 | 110.1 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 165.0 | 168.0 | 170.0 |
| 80 | 89.0 | 90.3 | 92.1 | 92.7 | 94.3 | 95.5 | 97.4 | 98.5 | 99.6 | 101.0 | 102.6 | 104.1 | 110.0 | 115.0 | 118.0 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 |
| 100 | 89.4 | 90.6 | 91.9 | 92.7 | 94.3 | 95.6 | 97.4 | 98.5 | 99.6 | 101.0 | 102.6 | 104.1 | 110.0 | 115.0 | 118.0 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 |
| 125 | 90.5 | 92.5 | 92.7 | 94.0 | 95.6 | 97.4 | 98.5 | 99.6 | 101.0 | 102.6 | 104.1 | 110.0 | 115.0 | 118.0 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 |
| 160 | 92.7 | 94.0 | 94.3 | 95.5 | 97.4 | 98.5 | 99.6 | 101.0 | 102.6 | 104.1 | 110.0 | 115.0 | 118.0 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 |
| 200 | 95.8 | 96.8 | 97.1 | 97.6 | 98.7 | 99.3 | 100.7 | 102.6 | 103.4 | 105.4 | 108.8 | 114.2 | 117.9 | 118.8 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 |
| 250 | 94.9 | 97.4 | 98.4 | 98.2 | 99.3 | 100.7 | 102.6 | 103.4 | 105.4 | 108.8 | 114.2 | 117.9 | 118.8 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 | 99.3 |
| 315 | 94.2 | 96.0 | 96.5 | 97.8 | 99.2 | 101.0 | 102.6 | 104.1 | 110.0 | 114.4 | 118.1 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 | 99.3 | 97.3 |
| 400 | 95.3 | 96.1 | 97.3 | 97.9 | 100.2 | 100.6 | 103.0 | 105.4 | 110.1 | 114.4 | 118.1 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 | 99.3 | 97.3 |
| 500 | 94.7 | 96.2 | 97.2 | 98.5 | 99.6 | 101.0 | 102.6 | 104.1 | 110.0 | 114.4 | 118.1 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 | 99.3 | 97.3 |
| 630 | 94.4 | 96.7 | 97.7 | 98.3 | 100.1 | 100.7 | 102.6 | 105.5 | 110.7 | 114.7 | 118.3 | 119.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 | 99.3 | 97.3 | 95.3 |
| 800 | 93.7 | 96.0 | 97.8 | 98.3 | 99.4 | 100.8 | 103.2 | 106.1 | 109.8 | 113.4 | 115.4 | 112.2 | 109.8 | 107.7 | 105.7 | 103.7 | 101.7 | 99.7 | 97.7 | 95.7 | 93.7 | 91.7 | 89.7 |
| 1000 | 94.4 | 97.9 | 98.5 | 99.6 | 101.0 | 102.6 | 104.1 | 110.0 | 114.4 | 118.1 | 119.5 | 117.3 | 115.3 | 113.3 | 111.3 | 109.3 | 107.3 | 105.3 | 103.3 | 101.3 | 99.3 | 97.3 | 95.3 |
| 1250 | 94.0 | 98.1 | 99.1 | 99.6 | 101.4 | 102.1 | 104.2 | 107.4 | 111.7 | 115.7 | 119.7 | 123.7 | 117.7 | 115.7 | 113.7 | 111.7 | 109.7 | 107.7 | 105.7 | 103.7 | 101.7 | 99.7 | 97.7 |
| 1600 | 93.5 | 96.0 | 97.6 | 99.0 | 101.4 | 102.1 | 104.4 | 107.4 | 111.9 | 115.9 | 119.9 | 123.9 | 117.9 | 115.9 | 113.9 | 111.9 | 109.9 | 107.9 | 105.9 | 103.9 | 101.9 | 99.9 | 97.9 |
| 2000 | 90.6 | 95.0 | 96.6 | 99.0 | 102.1 | 102.5 | 104.4 | 105.3 | 108.9 | 111.5 | 112.7 | 111.5 | 107.8 | 105.8 | 103.8 | 101.8 | 99.8 | 97.8 | 95.8 | 93.8 | 91.8 | 89.8 | 87.8 |
| 2500 | 88.6 | 93.8 | 96.2 | 97.9 | 100.2 | 101.3 | 104.5 | 106.7 | 108.7 | 109.5 | 109.5 | 109.5 | 107.6 | 105.6 | 103.6 | 101.6 | 99.6 | 97.6 | 95.6 | 93.6 | 91.6 | 89.6 | 87.6 |
| 3150 | 87.7 | 93.2 | 95.9 | 98.3 | 100.4 | 100.5 | 103.9 | 106.7 | 108.7 | 109.5 | 109.5 | 109.5 | 107.6 | 105.6 | 103.6 | 101.6 | 99.6 | 97.6 | 95.6 | 93.6 | 91.6 | 89.6 | 87.6 |
| 4000 | 85.6 | 90.2 | 93.6 | 95.9 | 99.7 | 99.5 | 102.7 | 105.4 | 107.7 | 109.4 | 109.4 | 109.4 | 107.5 | 105.5 | 103.5 | 101.5 | 99.5 | 97.5 | 95.5 | 93.5 | 91.5 | 89.5 | 87.5 |
| 5000 | 84.0 | 89.3 | 91.2 | 94.0 | 97.2 | 97.9 | 98.9 | 99.8 | 100.7 | 101.6 | 102.5 | 103.4 | 104.3 | 105.2 | 106.1 | 107.0 | 107.9 | 108.8 | 109.7 | 110.6 | 111.5 | 112.4 | 113.3 |
| 6300 | 82.6 | 88.2 | 91.4 | 93.8 | 96.8 | 97.0 | 99.2 | 99.8 | 100.7 | 101.6 | 102.5 | 103.4 | 104.3 | 105.2 | 106.1 | 107.0 | 107.9 | 108.8 | 109.7 | 110.6 | 111.5 | 112.4 | 113.3 |
| 5000 | 80.3 | 85.4 | 89.8 | 91.8 | 93.4 | 94.9 | 97.4 | 97.4 | 99.2 | 99.8 | 100.7 | 101.6 | 102.5 | 103.4 | 104.3 | 105.2 | 106.1 | 107.0 | 107.9 | 108.8 | 109.7 | 110.6 | 111.5 |
| 10000 | 77.7 | 82.6 | 86.9 | 88.2 | 88.8 | 91.8 | 93.1 | 92.1 | 97.9 | 99.4 | 102.0 | 103.2 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 | 103.3 |
| 12500 | 77.2 | 80.4 | 85.5 | 85.7 | 91.2 | 91.0 | 90.2 | 96.3 | 100.7 | 101.5 | 102.0 | 102.6 | 103.3 | 104.0 | 104.7 | 105.4 | 106.1 | 106.8 | 107.5 | 108.2 | 108.9 | 109.6 | 110.3 |
| 16000 | 80.3 | 83.6 | 89.5 | 86.4 | 86.3 | 94.7 | 95.6 | 90.4 | 99.8 | 105.8 | 104.6 | 98.0 | 97.2 | 96.2 | 95.2 | 94.2 | 93.2 | 92.2 | 91.2 | 90.2 | 89.2 | 88.2 | 87.2 |
| OVERALL CALCULATED | 105.7 | 108.3 | 109.5 | 110.7 | 112.5 | 113.5 | 115.7 | 117.0 | 121.4 | 125.5 | 129.0 | 132.3 | 134.7 | 137.1 | 139.6 | 142.1 | 144.6 | 147.1 | 149.6 | 152.1 | 154.6 | 157.1 | 159.6 |
| PI1DB | 115.3 | 119.1 | 121.1 | 122.9 | 124.9 | 125.6 | 128.2 | 128.4 | 132.3 | 134.7 | 137.1 | 139.6 | 142.1 | 144.6 | 147.1 | 149.6 | 152.1 | 154.6 | 157.1 | 159.6 | 162.1 | 164.6 | 167.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 7107 45.7m(150ft.) ARC FULL-.33m²(513in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY)

| NO EGA | FULL SCALE DATA REDUCTION PROGRAM | | | | | | | | | | | | |
|--------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| (731.52 M) | (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) |
| (1. RPM) | (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) |
| (1. RPM) | (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) |
| (7500. RPM) | (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) |
| (785. RAD/SEC) | (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) |
| AIRFLOW RATIO | (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) |
| WF/MM | (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) |
| VEHICLE | (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) |
| CONFIG | (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) |
| LOC C41 ANECHO CH | (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) |
| DATE C6-10-76 | (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) |
| RUN CONFVLEDERN | (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) |
| TAPE X7107D | (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) |
| FAN TIP SPEED | (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) |
| FT/SEC | (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) |
| 53 | 57.0 | 61.6 | 64.2 | 65.2 | 67.0 | 68.4 | 70.2 | 70.9 | 73.4 | 78.4 | 83.0 | 82.4 | 79.8 |
| 53 | 58.5 | 64.1 | 64.2 | 66.5 | 69.0 | 71.0 | 71.7 | 72.5 | 75.7 | 81.7 | 85.6 | 85.7 | 81.2 |
| 53 | 60.7 | 63.6 | 66.4 | 67.4 | 69.2 | 70.7 | 72.2 | 73.7 | 77.9 | 84.4 | 88.7 | 87.1 | 81.6 |
| 100 | 60.9 | 63.8 | 66.2 | 67.7 | 69.7 | 72.0 | 73.2 | 74.7 | 79.4 | 86.1 | 89.5 | 87.8 | 82.0 |
| 125 | 61.9 | 65.5 | 66.9 | 69.0 | 71.0 | 72.5 | 74.7 | 76.2 | 80.9 | 86.9 | 89.9 | 88.8 | 82.6 |
| 160 | 64.0 | 66.9 | 68.3 | 70.4 | 72.6 | 73.9 | 75.4 | 77.1 | 81.8 | 87.5 | 90.7 | 89.0 | 82.8 |
| 200 | 66.8 | 69.6 | 71.0 | 72.3 | 73.8 | 75.1 | 76.1 | 78.1 | 82.8 | 86.9 | 88.9 | 87.4 | 82.0 |
| 250 | 65.7 | 69.9 | 72.2 | 72.7 | 74.3 | 75.8 | 77.0 | 78.7 | 83.4 | 86.3 | 88.7 | 87.9 | 81.5 |
| 315 | 64.7 | 68.3 | 70.0 | 72.1 | 73.9 | 75.9 | 76.9 | 78.4 | 83.5 | 86.4 | 88.5 | 87.3 | 80.8 |
| MFD (785. RAD/SEC) | 65.3 | 68.0 | 70.5 | 71.9 | 74.7 | 75.2 | 77.6 | 79.4 | 83.2 | 86.3 | 87.6 | 85.5 | 78.0 |
| AIRFLOW RATIO | 64.1 | 67.6 | 70.0 | 72.1 | 73.7 | 75.2 | 77.7 | 79.1 | 83.0 | 85.0 | 86.7 | 83.5 | 74.0 |
| WF/MM | 63.2 | 67.6 | 70.0 | 71.4 | 73.8 | 74.6 | 76.3 | 78.7 | 83.0 | 84.9 | 85.8 | 81.1 | 72.5 |
| VEHICLE | 61.6 | 66.2 | 69.4 | 70.9 | 72.5 | 74.1 | 76.3 | 78.7 | 81.4 | 83.5 | 83.2 | 78.0 | 67.9 |
| CONFIG | 61.2 | 67.1 | 69.3 | 70.6 | 71.7 | 73.3 | 75.7 | 77.6 | 80.0 | 81.5 | 81.6 | 75.5 | 65.2 |
| LOC C41 ANECHO CH | 59.5 | 66.2 | 69.0 | 70.6 | 72.5 | 73.8 | 75.8 | 76.3 | 79.2 | 79.8 | 79.1 | 73.1 | 62.5 |
| DATE C6-10-76 | 57.0 | 62.5 | 66.0 | 69.5 | 71.8 | 73.1 | 75.0 | 75.2 | 77.3 | 78.0 | 76.2 | 70.3 | 58.0 |
| RUN CONFVLEDERN | 51.8 | 59.5 | 63.3 | 67.1 | 71.0 | 71.3 | 73.2 | 73.4 | 75.0 | 75.0 | 72.8 | 66.8 | 53.5 |
| TAPE X7107D | 46.4 | 55.6 | 60.5 | 63.8 | 66.9 | 68.3 | 71.2 | 69.7 | 71.0 | 70.4 | 67.4 | 60.6 | 45.9 |
| FAN TIP SPEED | 40.2 | 50.5 | 56.2 | 60.6 | 63.6 | 64.1 | 67.1 | 65.1 | 66.7 | 64.9 | 61.5 | 52.7 | 34.5 |
| FT/SEC | 30.0 | 40.7 | 48.0 | 52.7 | 57.8 | 58.1 | 60.8 | 58.3 | 58.7 | 54.6 | 49.9 | 39.1 | 17.3 |
| OVERALL CALC LATED | 23.7 | 35.9 | 42.1 | 47.6 | 52.3 | 53.5 | 54.1 | 53.5 | 54.7 | 48.7 | 44.8 | 30.3 | 6.6 |
| PHDB | 8.6 | 23.4 | 32.3 | 38.2 | 43.2 | 44.0 | 45.6 | 43.3 | 42.8 | 37.2 | 29.1 | 13.4 | |
| 8000 | 3.1 | 15.3 | 22.1 | 26.3 | 28.6 | 28.6 | 30.3 | 25.6 | 25.8 | 18.8 | 8.1 | | |
| 10000 | | | | 2.9 | 7.1 | 7.2 | 2.6 | 1.9 | | | | | |
| 12500 | | | | | | | | | | | | | |
| 16000 | 75.0 | 78.9 | 81.1 | 82.8 | 84.8 | 86.1 | 87.9 | 89.4 | 93.3 | 96.9 | 99.2 | 97.6 | 91.6 |
| PHDB | 79.5 | 84.3 | 87.1 | 89.1 | 90.9 | 93.9 | 95.8 | 96.4 | 99.4 | 101.9 | 103.0 | 100.3 | 92.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7107 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 10.1
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 0. 0. 0. 0. 0. 0. PML
 90. 100. 110. 120. 130. 140. 150. 160.
 FREQ. (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)

| NO | NO | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 0. | 0. | 0. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|
| 80.9 | 80.3 | 80.9 | 81.7 | 89.4 | 91.2 | 92.3 | 92.4 | 92.8 | 92.7 | 93.4 | 96.2 | 99.9 | 99.1 | 102.7 | 137.1 | | |
| 80.3 | 85.6 | 87.1 | 88.9 | 89.4 | 91.2 | 92.3 | 92.4 | 92.8 | 92.7 | 93.4 | 96.2 | 99.9 | 99.1 | 102.7 | 137.5 | | |
| 80.6 | 84.2 | 87.2 | 87.5 | 88.3 | 88.9 | 89.4 | 88.3 | 88.3 | 89.7 | 91.9 | 97.7 | 102.4 | 103.6 | 105.7 | 138.6 | | |
| 83.5 | 84.5 | 85.3 | 87.6 | 88.2 | 89.8 | 89.8 | 89.8 | 90.7 | 91.8 | 96.0 | 100.6 | 105.1 | 108.5 | 109.8 | 142.3 | | |
| 82.8 | 86.1 | 87.6 | 87.9 | 89.2 | 90.6 | 92.7 | 93.9 | 96.8 | 96.8 | 103.2 | 109.1 | 110.3 | 111.3 | 144.6 | 146.9 | | |
| 84.4 | 88.4 | 87.2 | 89.0 | 91.6 | 92.9 | 94.1 | 94.1 | 95.5 | 98.9 | 105.8 | 111.0 | 113.4 | 112.9 | 148.9 | 148.9 | | |
| 86.4 | 88.0 | 89.7 | 89.8 | 91.6 | 93.2 | 94.3 | 95.4 | 96.8 | 96.8 | 101.8 | 110.1 | 114.8 | 115.8 | 149.7 | 150.0 | | |
| 87.0 | 88.5 | 90.0 | 90.6 | 92.2 | 94.3 | 95.4 | 96.8 | 98.4 | 98.4 | 103.6 | 110.2 | 114.7 | 116.1 | 149.7 | 150.3 | | |
| 89.9 | 89.9 | 90.6 | 91.9 | 93.5 | 94.8 | 95.9 | 98.0 | 98.0 | 99.7 | 104.7 | 111.2 | 114.9 | 116.1 | 149.8 | 149.8 | | |
| 90.1 | 91.2 | 91.7 | 92.9 | 94.8 | 95.9 | 98.0 | 98.0 | 100.8 | 100.8 | 105.5 | 111.3 | 114.3 | 114.9 | 150.1 | 150.2 | | |
| 92.2 | 93.5 | 94.2 | 95.0 | 96.1 | 97.2 | 98.3 | 99.7 | 101.9 | 101.9 | 106.8 | 111.1 | 113.9 | 115.8 | 150.1 | 150.1 | | |
| 91.5 | 94.1 | 95.6 | 95.6 | 96.2 | 98.3 | 99.7 | 101.9 | 103.6 | 103.6 | 107.2 | 111.0 | 114.2 | 115.9 | 150.2 | 150.2 | | |
| 91.1 | 93.2 | 94.2 | 95.2 | 96.8 | 98.7 | 99.3 | 101.5 | 107.2 | 107.2 | 111.0 | 114.2 | 115.9 | 114.2 | 149.3 | 149.3 | | |
| 91.9 | 93.5 | 95.0 | 95.3 | 97.1 | 98.5 | 100.6 | 103.0 | 107.5 | 107.5 | 110.8 | 114.3 | 115.7 | 113.0 | 149.1 | 149.1 | | |
| 92.0 | 94.1 | 95.1 | 95.9 | 97.2 | 98.6 | 100.7 | 103.4 | 107.8 | 107.8 | 110.7 | 113.1 | 114.3 | 111.8 | 148.9 | 148.9 | | |
| 92.7 | 94.3 | 95.3 | 96.1 | 97.4 | 99.0 | 100.7 | 103.8 | 108.1 | 108.1 | 111.4 | 113.6 | 112.3 | 109.8 | 147.5 | 147.5 | | |
| 92.5 | 94.8 | 95.6 | 95.9 | 97.7 | 98.8 | 100.7 | 103.9 | 107.3 | 107.3 | 110.4 | 111.9 | 110.3 | 107.8 | 147.4 | 147.4 | | |
| 93.6 | 96.4 | 96.2 | 97.2 | 97.6 | 99.4 | 101.1 | 104.0 | 106.7 | 106.7 | 109.8 | 111.3 | 108.9 | 106.9 | 146.7 | 146.7 | | |
| 93.4 | 96.8 | 97.6 | 98.3 | 99.2 | 100.5 | 102.4 | 103.6 | 107.3 | 107.3 | 109.4 | 109.9 | 109.0 | 106.8 | 145.4 | 145.4 | | |
| 94.8 | 96.4 | 96.4 | 98.6 | 100.5 | 100.8 | 102.7 | 103.9 | 106.9 | 106.9 | 109.3 | 109.2 | 107.8 | 106.1 | 144.9 | 144.9 | | |
| 93.7 | 95.1 | 97.3 | 99.9 | 100.5 | 102.4 | 103.1 | 105.8 | 108.2 | 107.9 | 107.9 | 107.3 | 105.2 | 104.3 | 143.0 | 143.0 | | |
| 93.0 | 94.4 | 96.1 | 97.7 | 99.0 | 101.9 | 103.3 | 103.9 | 105.6 | 105.6 | 106.0 | 105.3 | 102.6 | 102.6 | 141.5 | 141.5 | | |
| 91.3 | 93.5 | 95.5 | 97.0 | 97.6 | 101.2 | 100.3 | 103.0 | 104.0 | 104.0 | 104.4 | 103.6 | 102.6 | 102.6 | 141.2 | 141.2 | | |
| 88.3 | 90.4 | 92.6 | 96.3 | 95.9 | 99.1 | 97.4 | 101.0 | 100.0 | 99.9 | 99.5 | 95.5 | 96.1 | 96.1 | 139.1 | 139.1 | | |
| 85.8 | 87.2 | 89.8 | 92.3 | 93.0 | 94.0 | 94.9 | 98.8 | 96.6 | 98.5 | 95.5 | 94.5 | 94.5 | 94.5 | 140.1 | 140.1 | | |
| 82.9 | 85.6 | 88.0 | 90.0 | 90.5 | 92.9 | 92.3 | 95.3 | 94.1 | 94.6 | 92.5 | 91.4 | 90.0 | 90.0 | 146.2 | 146.2 | | |
| 77.3 | 82.9 | 85.6 | 88.0 | 84.5 | 86.0 | 88.5 | 87.4 | 91.1 | 92.2 | 92.5 | 88.4 | 85.0 | 83.6 | 140.1 | 140.1 | | |
| 71.1 | 75.5 | 77.4 | 76.5 | 80.1 | 81.1 | 80.3 | 84.6 | 87.1 | 88.4 | 85.0 | 83.6 | 76.8 | 76.8 | 161.8 | 161.8 | | |
| 64.6 | 70.2 | 70.1 | 69.1 | 74.3 | 74.4 | 73.9 | 78.9 | 82.7 | 84.3 | 77.6 | 76.8 | 76.8 | 76.8 | | | | |
| 60.3 | 64.1 | 63.3 | 71.4 | 72.6 | 68.0 | 73.2 | 80.6 | 81.2 | 72.9 | 73.4 | | | | | | | |
| 103.7 | 106.4 | 107.4 | 108.6 | 110.1 | 111.3 | 113.2 | 114.7 | 118.6 | 122.5 | 125.5 | 126.3 | 124.9 | 124.9 | | | | |
| 116.4 | 119.0 | 119.6 | 120.5 | 121.9 | 123.2 | 124.9 | 127.3 | 131.3 | 135.0 | 137.6 | 137.7 | 135.9 | 135.9 | | | | |

OVERALL MEASURED

OVERALL CALCULATED 103.7 106.4 107.4 108.6 110.1 111.3 113.2 114.7 118.6 122.5 125.5 126.3 124.9

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 7108 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | LOC | DATE | RUN | TAP | BAR | TAMB | TWET | HACT | FREQ. | JET | DIAMETER RATIO | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|------------------|---------|------|------|------|------|------|------|------|------|-------|------|----------------|--------------------------------------|------|------|------|------|-------------------------------|------|------|------|------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | | FULL SCALE DATA REDUCTION PROGRAM | | | | | LEVELS SCALED FROM MODEL DATA | | | | | INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 84.6 | 87.9 | 89.4 | 89.8 | 90.3 | 90.8 | 91.1 | 91.4 | 91.6 | 91.8 | 92.0 | 92.2 | 92.4 | 92.6 | 92.8 | 93.0 | 93.2 | 93.4 | 93.6 | 93.8 | 94.0 | 94.2 | 94.4 | 94.6 | 94.8 | 95.0 | 95.2 | 95.4 | 95.6 | 95.8 | 96.0 | 96.2 | 96.4 | 96.6 | 96.8 | 97.0 | 97.2 | 97.4 | 97.6 | 97.8 | 98.0 | 98.2 | 98.4 | 98.6 | 98.8 | 99.0 | 99.2 | 99.4 | 99.6 | 99.8 | 100.0 | 100.2 | 100.4 | 100.6 | 100.8 | 101.0 | 101.2 | 101.4 | 101.6 | 101.8 | 102.0 | 102.2 | 102.4 | 102.6 | 102.8 | 103.0 | 103.2 | 103.4 | 103.6 | 103.8 | 104.0 | 104.2 | 104.4 | 104.6 | 104.8 | 105.0 | 105.2 | 105.4 | 105.6 | 105.8 | 106.0 | 106.2 | 106.4 | 106.6 | 106.8 | 107.0 | 107.2 | 107.4 | 107.6 | 107.8 | 108.0 | 108.2 | 108.4 | 108.6 | 108.8 | 109.0 | 109.2 | 109.4 | 109.6 | 109.8 | 110.0 | 110.2 | 110.4 | 110.6 | 110.8 | 111.0 | 111.2 | 111.4 | 111.6 | 111.8 | 112.0 | 112.2 | 112.4 | 112.6 | 112.8 | 113.0 | 113.2 | 113.4 | 113.6 | 113.8 | 114.0 | 114.2 | 114.4 | 114.6 | 114.8 | 115.0 | 115.2 | 115.4 | 115.6 | 115.8 | 116.0 | 116.2 | 116.4 | 116.6 | 116.8 | 117.0 | 117.2 | 117.4 | 117.6 | 117.8 | 118.0 | 118.2 | 118.4 | 118.6 | 118.8 | 119.0 | 119.2 | 119.4 | 119.6 | 119.8 | 120.0 | 120.2 | 120.4 | 120.6 | 120.8 | 121.0 | 121.2 | 121.4 | 121.6 | 121.8 | 122.0 | 122.2 | 122.4 | 122.6 | 122.8 | 123.0 | 123.2 | 123.4 | 123.6 | 123.8 | 124.0 | 124.2 | 124.4 | 124.6 | 124.8 | 125.0 | 125.2 | 125.4 | 125.6 | 125.8 | 126.0 | 126.2 | 126.4 | 126.6 | 126.8 | 127.0 | 127.2 | 127.4 | 127.6 | 127.8 | 128.0 | 128.2 | 128.4 | 128.6 | 128.8 | 129.0 | 129.2 | 129.4 | 129.6 | 129.8 | 130.0 | 130.2 | 130.4 | 130.6 | 130.8 | 131.0 | 131.2 | 131.4 | 131.6 | 131.8 | 132.0 | 132.2 | 132.4 | 132.6 | 132.8 | 133.0 | 133.2 | 133.4 | 133.6 | 133.8 | 134.0 | 134.2 | 134.4 | 134.6 | 134.8 | 135.0 | 135.2 | 135.4 | 135.6 | 135.8 | 136.0 | 136.2 | 136.4 | 136.6 | 136.8 | 137.0 | 137.2 | 137.4 | 137.6 | 137.8 | 138.0 | 138.2 | 138.4 | 138.6 | 138.8 | 139.0 | 139.2 | 139.4 | 139.6 | 139.8 | 140.0 | 140.2 | 140.4 | 140.6 | 140.8 | 141.0 | 141.2 | 141.4 | 141.6 | 141.8 | 142.0 | 142.2 | 142.4 | 142.6 | 142.8 | 143.0 | 143.2 | 143.4 | 143.6 | 143.8 | 144.0 | 144.2 | 144.4 | 144.6 | 144.8 | 145.0 | 145.2 | 145.4 | 145.6 | 145.8 | 146.0 | 146.2 | 146.4 | 146.6 | 146.8 | 147.0 | 147.2 | 147.4 | 147.6 | 147.8 | 148.0 | 148.2 | 148.4 | 148.6 | 148.8 | 149.0 | 149.2 | 149.4 | 149.6 | 149.8 | 150.0 | 150.2 | 150.4 | 150.6 | 150.8 | 151.0 | 151.2 | 151.4 | 151.6 | 151.8 | 152.0 | 152.2 | 152.4 | 152.6 | 152.8 | 153.0 | 153.2 | 153.4 | 153.6 | 153.8 | 154.0 | 154.2 | 154.4 | 154.6 | 154.8 | 155.0 | 155.2 | 155.4 | 155.6 | 155.8 | 156.0 | 156.2 | 156.4 | 156.6 | 156.8 | 157.0 | 157.2 | 157.4 | 157.6 | 157.8 | 158.0 | 158.2 | 158.4 | 158.6 | 158.8 | 159.0 | 159.2 | 159.4 | 159.6 | 159.8 | 160.0 | 160.2 | 160.4 | 160.6 | 160.8 | 161.0 | 161.2 | 161.4 | 161.6 | 161.8 | 162.0 | 162.2 | 162.4 | 162.6 | 162.8 | 163.0 | 163.2 | 163.4 | 163.6 | 163.8 | 164.0 | 164.2 | 164.4 | 164.6 | 164.8 | 165.0 | 165.2 | 165.4 | 165.6 | 165.8 | 166.0 | 166.2 | 166.4 | 166.6 | 166.8 | 167.0 | 167.2 | 167.4 | 167.6 | 167.8 | 168.0 | 168.2 | 168.4 | 168.6 | 168.8 | 169.0 | 169.2 | 169.4 | 169.6 | 169.8 | 170.0 | 170.2 | 170.4 | 170.6 | 170.8 | 171.0 | 171.2 | 171.4 | 171.6 | 171.8 | 172.0 | 172.2 | 172.4 | 172.6 | 172.8 | 173.0 | 173.2 | 173.4 | 173.6 | 173.8 | 174.0 | 174.2 | 174.4 | 174.6 | 174.8 | 175.0 |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7108 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| FREQ. | FULL SIZE SOUND PRESSURE | | | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | |
|--------------------|--------------------------|------|------|------|------|--|------|------|------|------|-------|-------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | |
| NO EGA | 50 | 56.5 | 61.3 | 63.9 | 64.9 | 66.7 | 68.2 | 70.2 | 70.9 | 73.1 | 78.4 | 82.8 | 81.7 | 79.3 |
| SIDELINE 2400. FT. | 63 | 58.0 | 63.6 | 63.5 | 66.0 | 69.0 | 70.5 | 71.5 | 72.5 | 75.2 | 80.9 | 84.6 | 84.7 | 80.7 |
| (731.52 M) | 80 | 59.9 | 63.1 | 65.9 | 66.7 | 69.0 | 70.7 | 71.7 | 73.2 | 76.4 | 83.4 | 87.2 | 85.9 | 81.1 |
| NFA (1. RPM | 100 | 60.4 | 63.6 | 66.2 | 67.5 | 69.5 | 71.7 | 72.7 | 73.7 | 77.9 | 85.1 | 88.2 | 86.8 | 81.5 |
| (1. RPM | 125 | 61.1 | 64.8 | 66.7 | 68.7 | 70.7 | 72.2 | 74.5 | 75.2 | 79.7 | 85.1 | 87.9 | 87.3 | 81.3 |
| NFK (1. RPM | 160 | 63.2 | 65.9 | 67.6 | 69.6 | 71.9 | 73.1 | 75.1 | 76.4 | 80.6 | 86.0 | 88.0 | 86.8 | 81.5 |
| (1. RPM | 200 | 65.1 | 68.1 | 70.0 | 71.6 | 73.0 | 74.3 | 76.1 | 77.3 | 81.2 | 85.9 | 87.2 | 85.4 | 81.0 |
| NFD (1. RPM | 250 | 64.2 | 68.4 | 71.2 | 72.0 | 73.0 | 75.3 | 76.5 | 78.2 | 82.4 | 85.5 | 86.5 | 85.9 | 80.3 |
| (750. RPM | 315 | 63.4 | 67.3 | 69.5 | 71.4 | 73.4 | 75.4 | 75.9 | 77.6 | 82.5 | 85.1 | 86.5 | 85.5 | 79.5 |
| (785. RPM/SEC) | 400 | 63.8 | 67.2 | 70.0 | 71.1 | 73.4 | 74.9 | 76.9 | 78.9 | 82.5 | 84.6 | 86.1 | 84.8 | 77.5 |
| AIRFLOW RATIO | 500 | 63.4 | 67.4 | 69.7 | 71.4 | 73.2 | 74.7 | 76.7 | 78.9 | 82.5 | 84.0 | 84.5 | 82.7 | 75.3 |
| WF/WM 4.63 | 630 | 63.5 | 67.1 | 69.5 | 71.2 | 73.0 | 74.8 | 76.3 | 78.9 | 82.2 | 84.2 | 84.3 | 79.8 | 72.0 |
| VEHICLE CELL41 | 800 | 62.4 | 66.9 | 69.2 | 70.4 | 72.8 | 74.1 | 75.8 | 78.4 | 80.9 | 82.5 | 81.7 | 76.7 | 68.4 |
| CONFIG NCS4 | 1000 | 62.4 | 67.6 | 69.0 | 71.1 | 72.0 | 74.0 | 75.5 | 77.8 | 79.5 | 81.0 | 80.1 | 74.0 | 65.4 |
| LOC C41 ANECH CH | 1250 | 61.0 | 66.9 | 69.4 | 71.3 | 72.8 | 74.3 | 76.0 | 77.6 | 79.2 | 79.6 | 77.4 | 72.4 | 62.7 |
| LDC C41 ANECH CH | 1600 | 58.0 | 63.5 | 67.0 | 70.5 | 73.0 | 75.6 | 77.2 | 78.5 | 77.5 | 77.9 | 74.9 | 68.8 | 58.5 |
| DATE 06-10-76 | 2000 | 53.3 | 60.7 | 64.2 | 67.9 | 71.2 | 72.0 | 73.7 | 73.6 | 75.0 | 75.2 | 71.6 | 65.5 | 53.5 |
| RUN CONFVLDPRN | 2500 | 48.2 | 57.6 | 61.4 | 64.7 | 67.2 | 68.8 | 71.4 | 69.9 | 70.9 | 70.1 | 66.6 | 59.5 | 46.4 |
| TAPE X7108C | 3150 | 41.6 | 52.0 | 57.2 | 61.0 | 63.6 | 64.5 | 67.9 | 65.8 | 66.7 | 64.6 | 60.2 | 51.4 | 34.9 |
| FAN TIP SPEED | 4000 | 31.5 | 42.9 | 48.9 | 53.4 | 58.5 | 58.5 | 61.2 | 58.2 | 59.4 | 54.6 | 48.3 | 37.6 | 17.0 |
| FT/SEC | 5000 | 25.6 | 37.8 | 43.6 | 48.8 | 52.7 | 53.9 | 54.5 | 53.9 | 55.1 | 48.6 | 43.5 | 28.8 | 6.0 |
| | 6300 | 10.2 | 25.0 | 33.4 | 39.4 | 43.3 | 44.4 | 46.2 | 43.6 | 43.2 | 36.3 | 27.5 | 12.5 | |
| | 8000 | 4.7 | 16.6 | 23.7 | 26.6 | 29.0 | 30.6 | 30.6 | 26.9 | 25.9 | 19.1 | 6.6 | | |
| | 10000 | | | 0.2 | 2.9 | 7.6 | 7.5 | 3.1 | 0.9 | | | | | |
| | 12500 | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 74.3 | 78.4 | 80.7 | 82.5 | 84.4 | 86.0 | 87.6 | 89.1 | 92.5 | 95.8 | 97.5 | 96.1 | 90.8 |
| | | 70.1 | 84.5 | 87.7 | 90.4 | 92.9 | 94.2 | 95.9 | 96.5 | 99.0 | 101.8 | 101.1 | 98.9 | 92.0 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7108 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | | | |
|--------------------|---------------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. |
| RDG. NO. | 84.1 | 87.9 | 89.7 | 89.2 | 91.3 | 92.7 | 95.1 | 95.5 | 98.4 | 104.7 | 110.9 | 112.9 | 113.4 | 158.2 | | | |
| RADIAL 150. FT. | 86.2 | 90.0 | 89.0 | 90.8 | 93.4 | 94.8 | 95.7 | 97.1 | 100.5 | 107.3 | 112.8 | 115.2 | 115.0 | 163.2 | | | |
| (46. M) | 88.0 | 89.3 | 91.3 | 91.6 | 93.4 | 94.3 | 95.7 | 97.6 | 102.5 | 109.9 | 115.3 | 116.5 | 115.9 | 161.8 | | | |
| VEHICLE CELL41 | 90.0 | 91.2 | 92.0 | 92.4 | 93.8 | 95.6 | 97.0 | 98.7 | 102.9 | 111.2 | 116.2 | 117.6 | 115.9 | 162.7 | | | |
| CONFIG. NCS4 | 91.7 | 93.0 | 93.5 | 94.8 | 96.4 | 98.0 | 99.4 | 101.5 | 106.3 | 112.6 | 115.8 | 117.7 | 116.0 | 162.8 | | | |
| LOC C41 ANECH CH | 93.5 | 95.1 | 95.8 | 96.6 | 97.2 | 98.8 | 100.5 | 102.1 | 107.1 | 112.4 | 114.9 | 116.3 | 116.1 | 162.9 | | | |
| DATE 06-10-76 | 92.9 | 94.9 | 97.2 | 97.2 | 97.8 | 99.4 | 100.8 | 103.2 | 108.7 | 112.8 | 114.7 | 117.1 | 115.2 | 162.8 | | | |
| RUN COME7VELDEPN | 93.0 | 95.0 | 95.8 | 96.8 | 98.2 | 100.3 | 100.9 | 103.3 | 108.8 | 112.6 | 115.6 | 117.7 | 115.8 | 163.3 | | | |
| TAPE X71100 | 94.0 | 95.3 | 96.8 | 97.4 | 99.0 | 100.1 | 102.0 | 104.4 | 109.3 | 112.7 | 115.4 | 117.5 | 114.8 | 163.1 | | | |
| BAR 29.4 HG | 94.4 | 95.7 | 97.0 | 97.5 | 99.1 | 100.5 | 102.1 | 104.2 | 109.2 | 112.7 | 115.3 | 117.2 | 112.7 | 164.8 | | | |
| (99178. N/M?) | 94.7 | 97.0 | 97.6 | 97.8 | 99.6 | 101.0 | 102.3 | 105.0 | 110.0 | 112.8 | 115.5 | 116.7 | 111.5 | 162.8 | | | |
| TAMB 67. DEG F | 96.4 | 98.4 | 98.5 | 98.5 | 99.6 | 101.2 | 103.3 | 106.0 | 109.0 | 112.0 | 113.7 | 113.1 | 108.5 | 161.6 | | | |
| (292. DEG K) | 96.0 | 98.8 | 99.4 | 100.1 | 100.7 | 102.3 | 104.5 | 105.1 | 109.4 | 111.5 | 113.2 | 112.6 | 108.6 | 161.3 | | | |
| TWET 62. DEG F | 94.7 | 96.8 | 98.4 | 100.4 | 102.2 | 102.8 | 104.4 | 105.6 | 109.1 | 111.5 | 112.4 | 112.3 | 108.5 | 161.2 | | | |
| (290. DEG K) | 92.3 | 96.5 | 97.3 | 99.3 | 102.6 | 102.5 | 104.6 | 105.8 | 108.5 | 110.7 | 111.1 | 111.2 | 108.2 | 161.0 | | | |
| HACT13.13 GM/M3 | 90.1 | 95.8 | 97.0 | 98.2 | 100.2 | 101.3 | 104.2 | 104.3 | 106.7 | 109.1 | 109.3 | 109.6 | 107.1 | 159.0 | | | |
| (.01313 KG/M3) | 89.5 | 95.2 | 96.7 | 98.6 | 100.4 | 100.7 | 103.9 | 103.1 | 106.7 | 107.9 | 108.8 | 108.5 | 106.5 | 159.6 | | | |
| FREQ. SHIFT | 87.1 | 92.2 | 94.3 | 96.7 | 100.2 | 99.5 | 102.9 | 101.7 | 104.3 | 104.1 | 104.7 | 105.9 | 103.8 | 156.5 | | | |
| JET | 85.2 | 90.7 | 92.4 | 94.9 | 97.2 | 97.6 | 98.7 | 100.3 | 103.9 | 103.9 | 102.5 | 104.1 | 103.2 | 154.9 | | | |
| DIAMETER RATIO | 84.1 | 89.9 | 92.6 | 94.8 | 97.5 | 97.0 | 99.4 | 99.3 | 102.1 | 101.9 | 103.4 | 104.3 | 101.3 | 155.0 | | | |
| DF/DM 4.63 | 81.1 | 87.1 | 90.5 | 93.3 | 94.3 | 95.4 | 97.1 | 96.5 | 100.0 | 101.9 | 102.7 | 102.3 | 99.6 | 154.3 | | | |
| OVERALL CALCULATED | 78.2 | 83.8 | 88.0 | 89.1 | 89.2 | 92.3 | 92.8 | 92.7 | 97.3 | 100.1 | 101.7 | 98.4 | 96.3 | 152.9 | | | |
| | 77.8 | 81.3 | 86.4 | 86.6 | 86.4 | 91.3 | 91.1 | 90.6 | 94.9 | 100.5 | 101.3 | 95.3 | 94.5 | 153.8 | | | |
| | 80.6 | 83.7 | 89.6 | 87.2 | 86.6 | 94.8 | 95.7 | 91.1 | 96.1 | 104.3 | 104.6 | 96.5 | 97.0 | 159.9 | | | |
| | 105.9 | 108.4 | 109.5 | 110.6 | 112.3 | 113.3 | 115.4 | 116.7 | 120.8 | 124.3 | 127.1 | 128.4 | 126.4 | 175.0 | | | |
| | 116.0 | 120.1 | 121.5 | 123.1 | 124.9 | 125.6 | 128.0 | 128.5 | 132.1 | 134.4 | 136.1 | 136.6 | 134.1 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7110** ACUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL-.33m²(513in²)**

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | |
|--------------------|---|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. |
| SIDELINE 2400. FT. | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) |
| (731.52 M) | 56.0 | 61.3 | 64.1 | 64.4 | 66.9 |
| YFA (T. RPM) | 63 | 58.0 | 63.4 | 66.0 | 69.0 |
| (C. RAD/SEC) | 81 | 59.7 | 62.6 | 66.2 | 69.0 |
| NFK (1. RPM) | 100 | 60.4 | 62.8 | 65.7 | 69.2 |
| (0. RAD/SEC) | 125 | 61.4 | 64.3 | 66.2 | 68.5 |
| NFD (7500. RPM) | 150 | 63.7 | 65.9 | 67.5 | 70.5 |
| (785. RAD/SEC) | 200 | 64.6 | 67.8 | 69.7 | 71.3 |
| AIRFLOW RATIO | 250 | 63.7 | 67.4 | 70.9 | 71.7 |
| WF/MM 4.63 | 315 | 63.4 | 67.3 | 69.3 | 71.1 |
| VEHICLE CELL41 | 400 | 64.1 | 67.2 | 70.0 | 71.4 |
| CONFIG NCS4 | 500 | 63.9 | 67.1 | 69.7 | 71.1 |
| LOC C41 ANECH CH | 600 | 63.7 | 67.1 | 69.5 | 71.4 |
| DATE C6-10-76 | 800 | 62.6 | 67.1 | 69.2 | 70.4 |
| RUN CONF7VELDEPN | 1000 | 63.2 | 67.6 | 69.3 | 70.3 |
| TAPE X71100 | 1250 | 61.5 | 66.9 | 69.2 | 71.1 |
| FAN TIP SPEED | 1600 | 58.2 | 63.3 | 66.8 | 70.0 |
| FT/SEC | 2000 | 53.5 | 61.0 | 64.0 | 67.4 |
| | 2500 | 47.9 | 57.6 | 61.2 | 64.0 |
| | 3150 | 41.9 | 52.5 | 57.0 | 60.8 |
| | 4000 | 31.5 | 42.7 | 48.7 | 53.5 |
| | 5000 | 24.9 | 37.4 | 43.4 | 48.6 |
| | 6300 | 10.0 | 25.1 | 33.5 | 39.2 |
| | 8000 | 4.8 | 16.0 | 23.5 | 27.2 |
| | 10000 | | | | |
| | 12500 | | | | |
| | 16000 | | | | |
| OVERALL CALCULATED | 74.4 | 78.2 | 80.6 | 82.3 | 84.2 |
| FN-DB | 79.2 | 84.4 | 87.5 | 90.1 | 92.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7/10** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-33m²(513in²)** SIZE **90.4**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 26 HR. 10.1
 ANGLES FROM INLET IN DEGREES (AND RADAINS)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PML
 FREQ. (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.)

| RDG. NO. | NO. OF | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | 0. | PML |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|
| 100 | 82.1 | 91.9 | 89.9 | 89.9 | 91.5 | 92.8 | 92.7 | 93.3 | 93.2 | 93.7 | 96.2 | 100.2 | 99.6 | 102.7 | 137.4 | | | | | | |
| 125 | 81.1 | 85.6 | 88.1 | 89.9 | 91.5 | 92.8 | 92.7 | 93.3 | 93.2 | 93.7 | 96.2 | 100.2 | 99.6 | 102.7 | 138.3 | | | | | | |
| 160 | 81.1 | 84.9 | 88.2 | 88.0 | 88.0 | 88.6 | 89.2 | 89.0 | 90.5 | 92.6 | 93.2 | 101.6 | 103.3 | 104.4 | 139.7 | | | | | | |
| 200 | 84.8 | 85.3 | 86.3 | 87.8 | 88.7 | 88.7 | 90.3 | 91.2 | 92.3 | 96.3 | 101.6 | 103.6 | 109.3 | 110.8 | 143.1 | | | | | | |
| 250 | 83.6 | 86.8 | 88.1 | 88.4 | 89.7 | 90.8 | 93.5 | 93.9 | 97.1 | 103.2 | 109.4 | 111.3 | 111.8 | | 145.1 | | | | | | |
| 315 | 85.2 | 88.9 | 87.9 | 90.0 | 92.3 | 93.2 | 94.3 | 95.5 | 99.4 | 106.8 | 112.5 | 114.9 | 114.6 | | 148.3 | | | | | | |
| 400 | 86.9 | 89.0 | 90.2 | 90.8 | 92.1 | 93.5 | 94.8 | 96.8 | 101.7 | 109.0 | 115.0 | 115.9 | 114.2 | | 149.7 | | | | | | |
| 500 | 87.8 | 88.8 | 89.8 | 91.3 | 92.9 | 94.8 | 96.2 | 98.1 | 103.0 | 110.9 | 116.1 | 117.0 | 114.8 | | 150.8 | | | | | | |
| 630 | 89.1 | 90.4 | 91.4 | 92.7 | 94.3 | 95.4 | 97.5 | 99.2 | 104.6 | 111.5 | 116.7 | 117.8 | 115.4 | | 151.5 | | | | | | |
| 800 | 91.1 | 92.4 | 92.4 | 94.2 | 96.3 | 96.7 | 98.8 | 100.9 | 105.7 | 112.0 | 116.7 | 118.6 | 116.4 | | 152.1 | | | | | | |
| 1000 | 94.0 | 95.0 | 95.2 | 96.0 | 96.9 | 98.2 | 99.9 | 101.8 | 106.7 | 111.8 | 115.8 | 117.7 | 116.7 | | 151.6 | | | | | | |
| 1250 | 92.8 | 95.3 | 96.8 | 96.6 | 97.2 | 99.1 | 101.0 | 102.9 | 107.6 | 111.6 | 115.6 | 118.8 | 116.3 | | 152.0 | | | | | | |
| 1600 | 92.6 | 94.4 | 94.4 | 96.0 | 97.3 | 99.4 | 101.3 | 103.2 | 108.2 | 111.8 | 115.0 | 118.6 | 116.4 | | 151.9 | | | | | | |
| 2000 | 93.9 | 95.0 | 96.0 | 96.5 | 98.1 | 99.2 | 101.3 | 103.5 | 108.5 | 111.6 | 115.5 | 117.7 | 114.2 | | 151.4 | | | | | | |
| 2500 | 93.0 | 94.3 | 96.1 | 97.1 | 98.0 | 99.3 | 102.0 | 103.6 | 108.6 | 111.7 | 115.6 | 116.0 | 111.8 | | 150.8 | | | | | | |
| 3150 | 94.0 | 94.8 | 96.3 | 97.1 | 98.7 | 99.5 | 101.9 | 104.1 | 109.3 | 112.2 | 115.8 | 114.0 | 110.3 | | 150.6 | | | | | | |
| 4000 | 93.0 | 94.1 | 95.6 | 96.4 | 98.2 | 99.3 | 102.5 | 104.1 | 108.1 | 111.7 | 114.1 | 112.3 | 108.3 | | 149.4 | | | | | | |
| 5000 | 92.6 | 94.7 | 95.7 | 96.7 | 98.3 | 99.9 | 102.1 | 104.5 | 108.2 | 111.1 | 112.8 | 111.4 | 107.7 | | 148.8 | | | | | | |
| 6300 | 92.2 | 94.5 | 95.8 | 96.8 | 99.2 | 100.5 | 102.9 | 104.1 | 107.8 | 110.9 | 111.0 | 111.0 | 107.3 | | 148.6 | | | | | | |
| 8000 | 91.2 | 94.1 | 94.6 | 96.4 | 98.7 | 100.3 | 103.0 | 104.1 | 107.6 | 110.3 | 110.9 | 109.6 | 106.8 | | 148.2 | | | | | | |
| 10000 | 89.9 | 95.0 | 94.8 | 95.8 | 98.4 | 99.3 | 102.4 | 103.1 | 106.8 | 109.5 | 109.7 | 108.5 | 106.0 | | 147.6 | | | | | | |
| 12500 | 88.8 | 94.5 | 94.9 | 95.4 | 96.9 | 98.0 | 101.4 | 101.5 | 104.9 | 107.6 | 107.5 | 106.8 | 104.3 | | 146.3 | | | | | | |
| 16000 | 87.4 | 92.9 | 93.8 | 96.0 | 96.8 | 96.6 | 100.3 | 99.8 | 103.6 | 105.5 | 105.9 | 105.7 | 103.1 | | 145.7 | | | | | | |
| 20000 | 84.3 | 89.1 | 91.2 | 93.1 | 96.4 | 95.2 | 98.6 | 97.2 | 101.0 | 101.0 | 102.2 | 101.6 | 101.0 | | 143.6 | | | | | | |
| 25000 | 80.6 | 86.9 | 87.3 | 89.9 | 92.6 | 92.6 | 93.6 | 94.2 | 98.1 | 98.2 | 100.3 | 97.4 | 97.7 | | 142.0 | | | | | | |
| 31500 | 78.2 | 84.2 | 85.9 | 88.4 | 90.6 | 90.6 | 92.5 | 91.6 | 94.9 | 96.8 | 97.2 | 96.9 | 95.1 | | 142.1 | | | | | | |
| 40000 | 73.3 | 79.1 | 82.3 | 84.0 | 84.6 | 86.1 | 88.4 | 87.0 | 90.8 | 95.1 | 95.0 | 94.3 | 91.2 | | 140.4 | | | | | | |
| 50000 | 66.4 | 72.8 | 76.3 | 77.6 | 77.1 | 80.0 | 81.2 | 79.7 | 85.0 | 89.8 | 89.6 | 89.7 | 85.8 | | 141.7 | | | | | | |
| 63000 | 61.1 | 65.8 | 69.9 | 70.6 | 69.6 | 74.0 | 74.1 | 73.4 | 78.9 | 84.8 | 86.6 | 79.8 | 78.6 | | 148.3 | | | | | | |
| 80000 | 57.3 | 61.4 | 67.0 | 64.7 | 64.1 | 72.0 | 72.9 | 67.1 | 74.0 | 83.5 | 82.9 | 78.2 | 75.0 | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 104.4 | 106.7 | 107.6 | 108.6 | 110.3 | 111.4 | 113.7 | 115.1 | 119.5 | 123.5 | 127.1 | 128.3 | 126.2 | | | | | | | | |
| P.M. | 117.2 | 118.8 | 120.0 | 120.9 | 122.5 | 123.6 | 126.0 | 127.7 | 132.3 | 135.9 | 139.4 | 139.6 | 136.8 | | | | | | | | |

CONFIGURATION 7 TEST POINT 7/12 ACOUSTIC RANGE 12.2m(40ft.) ARC
 ANECHOIC JET NOISE TEST FACILITY RESULTS
 SIZE MODEL-154cm²(23.9in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 7% PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | D. | D. | D. | PWL | | | | | | | | | |
|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | | | | | | |
| 50 | 85.4 | 88.7 | 89.9 | 91.2 | 91.6 | 92.7 | 95.3 | 95.7 | 98.9 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 158.5 | |
| 63 | 87.0 | 90.8 | 89.6 | 91.8 | 94.2 | 95.0 | 96.2 | 97.3 | 101.3 | 108.6 | 114.3 | 116.7 | 116.3 | 116.7 | 116.3 | 116.3 | 116.3 | 161.6 |
| 80 | 88.8 | 90.8 | 92.0 | 92.6 | 93.9 | 95.3 | 96.7 | 98.6 | 103.5 | 110.9 | 116.8 | 117.9 | 116.7 | 116.7 | 116.7 | 116.7 | 116.7 | 163.3 |
| 100 | 89.6 | 90.6 | 91.6 | 93.2 | 94.8 | 96.6 | 98.0 | 99.9 | 104.9 | 112.7 | 117.9 | 118.8 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 | 164.1 |
| 125 | 91.0 | 92.2 | 93.2 | 94.5 | 96.1 | 97.2 | 99.4 | 101.0 | 106.5 | 113.3 | 118.5 | 119.7 | 117.2 | 117.2 | 117.2 | 117.2 | 117.2 | 164.8 |
| 160 | 93.0 | 94.2 | 94.3 | 96.0 | 97.1 | 98.5 | 100.6 | 102.8 | 107.5 | 113.8 | 119.5 | 120.5 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 165.4 |
| 200 | 95.3 | 96.8 | 97.1 | 97.9 | 98.7 | 100.1 | 101.7 | 103.6 | 108.6 | 113.7 | 117.6 | 119.5 | 118.6 | 118.6 | 118.6 | 118.6 | 118.6 | 165.5 |
| 250 | 94.6 | 97.2 | 98.7 | 98.5 | 99.1 | 100.9 | 102.8 | 104.7 | 109.4 | 113.5 | 117.5 | 120.6 | 118.2 | 118.2 | 118.2 | 118.2 | 118.2 | 165.3 |
| 315 | 94.5 | 96.3 | 96.3 | 97.8 | 99.2 | 101.3 | 102.2 | 104.1 | 109.0 | 113.6 | 116.8 | 120.5 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 165.2 |
| 400 | 95.8 | 96.8 | 97.8 | 98.4 | 100.0 | 101.1 | 103.2 | 105.4 | 110.3 | 113.4 | 117.4 | 119.5 | 116.1 | 116.1 | 116.1 | 116.1 | 116.1 | 164.7 |
| 500 | 94.9 | 96.2 | 98.0 | 99.0 | 99.8 | 101.2 | 103.8 | 105.5 | 110.5 | 113.6 | 117.5 | 117.9 | 113.7 | 113.7 | 113.7 | 113.7 | 113.7 | 164.1 |
| 632 | 95.9 | 96.7 | 98.2 | 99.0 | 100.6 | 101.5 | 103.8 | 106.0 | 111.2 | 114.1 | 117.8 | 115.9 | 112.2 | 112.2 | 112.2 | 112.2 | 112.2 | 163.9 |
| 800 | 94.6 | 96.0 | 97.6 | 98.3 | 100.2 | 101.3 | 104.4 | 106.1 | 110.2 | 113.7 | 116.1 | 114.3 | 110.3 | 110.3 | 110.3 | 110.3 | 110.3 | 162.7 |
| 1000 | 94.6 | 96.7 | 97.7 | 98.7 | 100.3 | 101.9 | 104.1 | 106.5 | 110.2 | 113.0 | 114.7 | 113.4 | 109.7 | 109.7 | 109.7 | 109.7 | 109.7 | 162.1 |
| 1250 | 94.3 | 96.6 | 97.9 | 98.9 | 101.2 | 102.6 | 105.0 | 106.4 | 109.9 | 112.5 | 113.9 | 113.1 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 161.9 |
| 1600 | 93.5 | 96.3 | 96.9 | 98.6 | 100.9 | 102.5 | 105.2 | 106.7 | 109.9 | 112.5 | 113.2 | 111.8 | 109.0 | 109.0 | 109.0 | 109.0 | 109.0 | 161.5 |
| 2000 | 92.3 | 97.5 | 97.3 | 98.3 | 100.9 | 101.7 | 104.9 | 105.5 | 109.3 | 111.9 | 112.1 | 111.0 | 108.5 | 108.5 | 108.5 | 108.5 | 108.5 | 163.9 |
| 2500 | 91.6 | 97.3 | 97.7 | 98.2 | 99.7 | 100.8 | 104.2 | 104.3 | 107.7 | 110.4 | 110.3 | 109.6 | 107.1 | 107.1 | 107.1 | 107.1 | 107.1 | 159.6 |
| 3150 | 90.7 | 96.2 | 97.2 | 97.2 | 99.3 | 100.1 | 103.6 | 103.1 | 106.9 | 108.9 | 109.3 | 109.0 | 106.5 | 106.5 | 106.5 | 106.5 | 106.5 | 159.0 |
| 4000 | 88.4 | 93.2 | 95.3 | 97.2 | 99.4 | 99.3 | 102.7 | 101.2 | 105.1 | 105.1 | 106.2 | 105.7 | 105.0 | 105.0 | 105.0 | 105.0 | 105.0 | 159.0 |
| 5000 | 86.0 | 92.3 | 92.6 | 95.2 | 97.9 | 97.9 | 99.6 | 99.6 | 103.4 | 103.6 | 105.6 | 102.7 | 103.0 | 103.0 | 103.0 | 103.0 | 103.0 | 155.3 |
| 6300 | 85.1 | 91.2 | 92.9 | 95.3 | 97.6 | 97.5 | 99.5 | 99.5 | 98.6 | 101.9 | 103.7 | 104.2 | 103.3 | 102.0 | 102.0 | 102.0 | 102.0 | 155.4 |
| 8000 | 82.6 | 88.4 | 91.5 | 93.3 | 93.9 | 95.4 | 97.6 | 96.3 | 100.0 | 104.4 | 104.2 | 103.6 | 100.4 | 100.4 | 100.4 | 100.4 | 100.4 | 155.5 |
| 10000 | 78.7 | 85.1 | 88.6 | 89.9 | 89.5 | 92.3 | 93.6 | 92.0 | 97.3 | 102.1 | 102.0 | 99.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 153.7 |
| 12500 | 77.9 | 82.6 | 86.7 | 87.4 | 86.4 | 90.8 | 90.8 | 90.8 | 95.7 | 101.6 | 103.4 | 95.6 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 153.7 |
| 16000 | 80.4 | 84.5 | 93.1 | 87.8 | 87.2 | 95.1 | 96.0 | 90.2 | 97.1 | 106.6 | 106.0 | 101.3 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 161.6 |
| 20000 | 106.3 | 108.8 | 109.8 | 110.9 | 112.5 | 113.7 | 116.1 | 117.3 | 121.7 | 125.6 | 129.0 | 130.2 | 127.9 | 127.9 | 127.9 | 127.9 | 127.9 | 176.6 |
| 25000 | 116.8 | 120.9 | 121.9 | 123.5 | 125.0 | 125.5 | 128.3 | 128.7 | 132.7 | 135.7 | 137.3 | 137.4 | 135.0 | 135.0 | 135.0 | 135.0 | 135.0 | |

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7112** ACOUSTIC RANGE **45.7m(150ft.)** ARC **FULL-.33m²(513in²)** SIZE

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | REL. HUM. DAY | | | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | | | | | | | |
| 50 | (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) | (3.00) | (3.20) | (3.40) | (3.60) | (3.80) | (4.00) |
| 63 | 57.2 | 62.1 | 64.4 | 65.4 | 67.2 | 68.4 | 70.9 | 73.4 | 75.7 | 78.4 | 81.0 | 83.0 | 85.7 | 88.2 | 90.8 | 93.3 | 95.8 | 98.3 | 100.8 |
| 80 | 60.4 | 64.1 | 66.4 | 67.0 | 69.7 | 70.7 | 71.7 | 72.5 | 73.7 | 74.9 | 76.1 | 77.3 | 78.5 | 79.7 | 80.9 | 82.1 | 83.3 | 84.5 | 85.7 |
| 100 | 61.2 | 63.8 | 65.9 | 68.2 | 70.2 | 72.2 | 73.5 | 75.0 | 76.2 | 77.4 | 78.6 | 79.8 | 81.0 | 82.2 | 83.4 | 84.6 | 85.8 | 87.0 | 88.2 |
| 125 | 62.4 | 65.3 | 67.4 | 69.5 | 71.5 | 72.7 | 74.7 | 76.0 | 77.2 | 78.4 | 79.6 | 80.8 | 82.0 | 83.2 | 84.4 | 85.6 | 86.8 | 88.0 | 89.2 |
| 160 | 64.2 | 67.2 | 68.3 | 70.9 | 72.4 | 73.9 | 75.9 | 77.6 | 79.3 | 81.0 | 82.7 | 84.4 | 86.1 | 87.8 | 89.5 | 91.2 | 92.9 | 94.6 | 96.3 |
| 200 | 66.8 | 69.6 | 71.0 | 72.6 | 73.8 | 75.3 | 76.8 | 78.3 | 79.8 | 81.3 | 82.8 | 84.3 | 85.8 | 87.3 | 88.8 | 90.3 | 91.8 | 93.3 | 94.8 |
| 250 | 65.4 | 69.7 | 72.4 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 |
| 315 | 64.9 | 68.5 | 69.8 | 72.1 | 73.9 | 76.2 | 78.4 | 80.6 | 82.8 | 85.0 | 87.2 | 89.4 | 91.6 | 93.8 | 96.0 | 98.2 | 100.4 | 102.6 | 104.8 |
| 400 | 65.8 | 68.7 | 71.0 | 72.4 | 74.4 | 75.7 | 77.7 | 79.4 | 81.1 | 82.8 | 84.5 | 86.2 | 87.9 | 89.6 | 91.3 | 93.0 | 94.7 | 96.4 | 98.1 |
| 500 | 64.4 | 67.6 | 70.7 | 72.6 | 74.0 | 75.5 | 77.0 | 78.5 | 79.9 | 81.4 | 82.9 | 84.4 | 85.9 | 87.4 | 88.9 | 90.4 | 91.9 | 93.4 | 94.9 |
| 630 | 64.7 | 67.6 | 70.5 | 72.2 | 74.3 | 75.3 | 77.5 | 79.2 | 81.0 | 82.8 | 84.6 | 86.4 | 88.2 | 90.0 | 91.8 | 93.6 | 95.4 | 97.2 | 99.0 |
| 800 | 62.9 | 66.1 | 69.2 | 70.9 | 73.3 | 74.6 | 77.5 | 78.6 | 81.7 | 83.8 | 84.0 | 87.7 | 88.9 | 92.6 | 93.8 | 97.5 | 98.7 | 102.4 | 103.6 |
| 1000 | 61.4 | 65.9 | 68.5 | 70.6 | 72.7 | 74.5 | 76.5 | 78.3 | 81.0 | 82.3 | 81.6 | 85.3 | 86.6 | 90.3 | 91.6 | 95.3 | 96.6 | 100.3 | 101.6 |
| 1250 | 59.7 | 64.7 | 67.7 | 69.6 | 72.8 | 74.3 | 76.5 | 77.1 | 79.7 | 81.1 | 79.4 | 83.1 | 84.5 | 88.2 | 89.6 | 93.3 | 94.7 | 98.4 | 99.8 |
| 1600 | 57.0 | 62.8 | 65.3 | 68.2 | 71.3 | 73.1 | 75.5 | 76.0 | 78.3 | 79.0 | 76.7 | 80.4 | 81.1 | 84.8 | 85.5 | 89.2 | 90.0 | 93.7 | 94.4 |
| 2000 | 53.5 | 62.0 | 64.0 | 66.4 | 69.7 | 70.8 | 73.6 | 73.6 | 76.0 | 76.0 | 73.6 | 76.0 | 76.0 | 79.0 | 79.0 | 82.0 | 82.0 | 85.0 | 85.0 |
| 2500 | 49.4 | 59.1 | 62.0 | 64.0 | 66.4 | 67.8 | 70.9 | 70.2 | 72.0 | 72.2 | 68.1 | 70.6 | 70.6 | 73.3 | 73.3 | 76.0 | 76.0 | 78.7 | 78.7 |
| 3150 | 43.2 | 53.5 | 57.5 | 61.6 | 63.4 | 63.6 | 66.9 | 65.4 | 67.2 | 66.2 | 61.7 | 63.5 | 63.5 | 66.2 | 66.2 | 68.9 | 68.9 | 71.6 | 71.6 |
| 4000 | 32.8 | 43.7 | 49.7 | 54.0 | 58.5 | 57.8 | 60.8 | 58.0 | 59.5 | 58.0 | 53.5 | 55.6 | 55.6 | 58.3 | 58.3 | 61.0 | 61.0 | 63.7 | 63.7 |
| 5000 | 25.7 | 38.9 | 43.6 | 48.9 | 53.0 | 53.0 | 54.0 | 53.2 | 54.4 | 50.2 | 45.3 | 47.4 | 47.4 | 50.1 | 50.1 | 52.8 | 52.8 | 55.5 | 55.5 |
| 6300 | 11.0 | 26.4 | 33.8 | 39.7 | 43.9 | 44.5 | 45.8 | 43.0 | 42.8 | 38.9 | 30.1 | 30.6 | 30.6 | 33.3 | 33.3 | 36.0 | 36.0 | 38.7 | 38.7 |
| 8000 | | 6.0 | 17.0 | 23.6 | 26.7 | 29.1 | 30.5 | 26.5 | 22.0 | 9.1 | | | | | | | | | |
| 10000 | | | | 0.4 | 3.6 | 7.5 | 7.7 | 2.6 | 1.3 | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 75.3 | 78.9 | 81.2 | 82.9 | 84.9 | 86.4 | 88.4 | 89.6 | 93.5 | 96.7 | 99.1 | 98.1 | 92.2 | | | | | | |
| PH98 | 80.2 | 85.0 | 87.5 | 89.9 | 92.6 | 93.9 | 96.3 | 96.8 | 99.5 | 101.7 | 102.9 | 101.1 | 93.6 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7/12 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

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

PROC. DATE - MONTH 8 DAY 26 HR. 10.1

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PWL
 (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.)

| NO EGA | NO. D. | RADIAL | 40. FT. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | PWL |
|--------|--------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|-----|
| 83.1 | 92.7 | 90.2 | 92.0 | 93.8 | 93.7 | 94.0 | 94.0 | 95.2 | 97.0 | 100.9 | 100.9 | 100.9 | 103.7 | 138.3 | | | | | | |
| 81.6 | 86.4 | 88.4 | 90.4 | 92.2 | 93.9 | 94.2 | 93.7 | 94.0 | 95.2 | 97.0 | 100.9 | 100.9 | 103.7 | 138.7 | | | | | | |
| 81.9 | 84.9 | 88.9 | 88.2 | 88.8 | 89.9 | 89.5 | 90.7 | 92.4 | 93.0 | 93.6 | 98.0 | 103.4 | 104.4 | 106.9 | | | | | | |
| 84.3 | 85.5 | 86.0 | 88.3 | 89.4 | 90.8 | 91.9 | 92.9 | 96.8 | 101.1 | 105.8 | 110.0 | 111.5 | 143.6 | | | | | | | |
| 84.1 | 87.6 | 88.8 | 89.4 | 90.5 | 91.3 | 94.0 | 94.6 | 97.6 | 103.4 | 110.1 | 112.0 | 113.1 | 146.0 | | | | | | | |
| 85.4 | 89.4 | 90.2 | 90.2 | 92.6 | 93.7 | 94.8 | 95.7 | 99.9 | 106.8 | 112.0 | 114.9 | 114.9 | 148.3 | | | | | | | |
| 87.4 | 89.0 | 90.7 | 90.8 | 92.6 | 94.0 | 95.3 | 97.0 | 102.0 | 109.0 | 116.7 | 116.2 | 115.0 | 149.8 | | | | | | | |
| 88.5 | 89.0 | 90.5 | 91.3 | 92.9 | 95.3 | 96.2 | 98.1 | 103.3 | 111.1 | 115.8 | 117.3 | 115.5 | 150.9 | | | | | | | |
| 89.4 | 91.4 | 91.4 | 92.9 | 94.5 | 95.9 | 97.5 | 99.2 | 104.6 | 111.5 | 117.2 | 118.1 | 116.4 | 151.9 | | | | | | | |
| 91.9 | 92.9 | 93.2 | 94.4 | 95.8 | 97.4 | 98.8 | 100.9 | 106.4 | 112.0 | 117.7 | 118.6 | 117.7 | 152.6 | | | | | | | |
| 95.5 | 96.7 | 96.7 | 96.8 | 97.4 | 99.0 | 100.1 | 102.0 | 107.0 | 112.3 | 117.0 | 118.7 | 118.0 | 152.7 | | | | | | | |
| 94.0 | 96.6 | 97.8 | 97.4 | 98.0 | 99.8 | 101.2 | 103.1 | 107.6 | 112.1 | 117.6 | 119.8 | 117.3 | 153.2 | | | | | | | |
| 95.6 | 96.7 | 96.2 | 96.5 | 98.1 | 99.7 | 100.8 | 103.2 | 108.2 | 111.8 | 117.7 | 119.1 | 116.9 | 152.9 | | | | | | | |
| 99.9 | 98.7 | 98.7 | 97.3 | 98.6 | 99.5 | 101.3 | 104.0 | 108.2 | 112.1 | 118.0 | 116.9 | 113.5 | 154.1 | | | | | | | |
| 101.5 | 101.6 | 101.1 | 99.9 | 99.0 | 100.3 | 102.5 | 104.6 | 108.8 | 112.2 | 117.6 | 115.3 | 111.5 | 151.7 | | | | | | | |
| 100.2 | 101.5 | 102.3 | 101.3 | 101.9 | 101.3 | 101.4 | 104.8 | 109.1 | 112.7 | 117.3 | 113.5 | 109.8 | 151.4 | | | | | | | |
| 97.5 | 99.3 | 100.6 | 100.9 | 102.2 | 102.1 | 102.5 | 105.4 | 108.3 | 112.4 | 114.9 | 111.0 | 108.1 | 150.1 | | | | | | | |
| 96.6 | 97.7 | 99.0 | 99.2 | 100.6 | 102.9 | 103.3 | 105.0 | 108.0 | 111.6 | 113.5 | 110.2 | 107.4 | 149.3 | | | | | | | |
| 95.2 | 97.3 | 98.6 | 99.1 | 100.4 | 102.5 | 104.7 | 104.8 | 108.1 | 110.9 | 112.6 | 109.8 | 107.5 | 149.0 | | | | | | | |
| 94.0 | 96.3 | 97.9 | 99.4 | 100.7 | 102.3 | 104.2 | 105.9 | 107.9 | 110.3 | 111.7 | 108.3 | 105.6 | 148.6 | | | | | | | |
| 92.4 | 96.0 | 96.6 | 98.3 | 100.6 | 101.3 | 103.6 | 105.1 | 107.3 | 109.0 | 109.9 | 107.5 | 105.0 | 147.9 | | | | | | | |
| 90.5 | 94.0 | 95.4 | 97.1 | 98.2 | 100.0 | 102.4 | 102.8 | 105.4 | 106.8 | 108.0 | 106.1 | 104.3 | 146.6 | | | | | | | |
| 89.1 | 92.4 | 94.0 | 96.0 | 98.0 | 98.4 | 101.5 | 104.3 | 105.0 | 106.4 | 104.9 | 102.1 | 102.1 | 145.9 | | | | | | | |
| 85.8 | 89.1 | 91.7 | 93.6 | 96.6 | 96.2 | 98.9 | 98.4 | 101.5 | 101.0 | 102.4 | 101.3 | 99.5 | 143.9 | | | | | | | |
| 82.6 | 86.9 | 87.8 | 90.6 | 92.3 | 92.8 | 94.1 | 95.5 | 98.8 | 97.7 | 101.5 | 96.6 | 96.4 | 142.4 | | | | | | | |
| 80.1 | 84.7 | 85.9 | 89.3 | 91.6 | 90.8 | 92.8 | 92.4 | 95.7 | 95.2 | 97.5 | 97.4 | 93.2 | 142.2 | | | | | | | |
| 74.3 | 79.3 | 82.5 | 85.7 | 86.1 | 86.3 | 83.3 | 87.7 | 91.7 | 93.1 | 95.4 | 92.6 | 89.9 | 141.8 | | | | | | | |
| 67.9 | 72.7 | 76.7 | 80.3 | 78.8 | 80.4 | 81.2 | 80.4 | 85.2 | 87.5 | 91.5 | 86.4 | 83.0 | 140.6 | | | | | | | |
| 61.3 | 65.7 | 70.5 | 74.8 | 72.6 | 74.5 | 74.6 | 74.1 | 79.9 | 83.0 | 87.5 | 78.7 | 77.5 | 141.8 | | | | | | | |
| 56.2 | 60.5 | 66.7 | 71.8 | 69.0 | 71.6 | 72.6 | 68.0 | 76.9 | 81.9 | 84.3 | 74.6 | 74.2 | 148.4 | | | | | | | |

OVERALL MEASURES
 OVERALL CALCULATED 108.4 109.7 110.3 110.6 111.8 112.9 114.5 116.0 119.7 123.7 128.2 128.5 126.9
 AND 123.7 124.0 123.7 124.7 125.4 126.5 128.6 132.3 136.2 140.7 139.3 137.1

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7/13 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 8 DAY 25 HR. 21.6
 DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | O. FT. | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | SAR | TAMB | TJET | HACT | FREQ. | SCALED FROM MODEL DATA | | | | | | | | | | | | PML | |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | | 160. |
| 50 | 25.9 | 89.4 | 90.7 | 91.2 | 92.3 | 93.2 | 95.8 | 96.5 | 99.7 | 105.2 | 111.9 | 113.9 | 114.9 | 159.3 | | | | | | | | | | | | | |
| 63 | 87.2 | 91.3 | 90.0 | 92.1 | 94.4 | 95.8 | 97.2 | 98.8 | 103.8 | 110.9 | 116.6 | 116.8 | 161.6 | | | | | | | | | | | | | | |
| 80 | 89.3 | 90.8 | 92.5 | 92.6 | 94.4 | 95.8 | 97.2 | 98.8 | 103.8 | 110.9 | 116.6 | 116.8 | 163.1 | | | | | | | | | | | | | | |
| 100 | 90.4 | 90.9 | 92.4 | 93.2 | 94.8 | 97.1 | 98.0 | 99.9 | 105.1 | 112.9 | 117.7 | 117.4 | 164.2 | | | | | | | | | | | | | | |
| 125 | 91.2 | 93.2 | 93.2 | 94.8 | 96.4 | 97.7 | 99.4 | 101.0 | 106.5 | 113.3 | 119.0 | 119.9 | 165.2 | | | | | | | | | | | | | | |
| 160 | 93.7 | 94.7 | 95.0 | 96.3 | 97.6 | 99.2 | 100.6 | 102.8 | 108.3 | 113.8 | 119.5 | 120.5 | 166.2 | | | | | | | | | | | | | | |
| 200 | 97.3 | 98.6 | 98.6 | 98.6 | 99.2 | 100.8 | 102.0 | 103.9 | 108.8 | 114.2 | 118.9 | 120.5 | 166.3 | | | | | | | | | | | | | | |
| 250 | 95.9 | 98.4 | 99.7 | 99.2 | 99.8 | 101.7 | 103.1 | 105.0 | 109.4 | 114.0 | 119.5 | 121.6 | 166.5 | | | | | | | | | | | | | | |
| 315 | 97.5 | 98.5 | 98.0 | 98.3 | 99.9 | 101.5 | 102.7 | 105.1 | 110.0 | 113.6 | 119.5 | 121.0 | 166.5 | | | | | | | | | | | | | | |
| 400 | 101.8 | 100.6 | 100.6 | 99.1 | 100.5 | 101.3 | 103.7 | 105.9 | 111.1 | 113.9 | 119.9 | 118.8 | 165.4 | | | | | | | | | | | | | | |
| 500 | 103.4 | 103.5 | 103.0 | 101.7 | 100.8 | 102.2 | 104.3 | 106.5 | 113.7 | 114.1 | 119.5 | 117.2 | 165.0 | | | | | | | | | | | | | | |
| 630 | 102.2 | 103.5 | 104.2 | 103.3 | 103.8 | 103.3 | 106.8 | 111.0 | 114.6 | 119.3 | 115.4 | 111.7 | 164.7 | | | | | | | | | | | | | | |
| 800 | 99.5 | 101.3 | 102.6 | 102.8 | 104.3 | 104.0 | 107.3 | 113.3 | 114.4 | 116.8 | 113.0 | 110.0 | 163.4 | | | | | | | | | | | | | | |
| 1000 | 98.6 | 99.7 | 101.0 | 101.2 | 102.6 | 104.9 | 105.3 | 107.0 | 113.0 | 113.5 | 115.5 | 112.1 | 162.6 | | | | | | | | | | | | | | |
| 1250 | 97.3 | 99.3 | 100.6 | 101.1 | 102.5 | 104.6 | 106.7 | 106.9 | 110.1 | 113.0 | 114.7 | 111.8 | 162.3 | | | | | | | | | | | | | | |
| 1600 | 96.2 | 98.5 | 100.1 | 101.6 | 102.9 | 104.5 | 106.4 | 108.1 | 110.1 | 112.5 | 113.9 | 110.5 | 162.2 | | | | | | | | | | | | | | |
| 2000 | 94.8 | 98.5 | 99.0 | 100.8 | 103.1 | 103.7 | 106.1 | 107.5 | 109.8 | 111.4 | 112.4 | 110.0 | 161.2 | | | | | | | | | | | | | | |
| 2500 | 93.3 | 96.8 | 98.2 | 99.9 | 101.0 | 102.8 | 105.2 | 105.6 | 108.2 | 109.6 | 110.8 | 108.9 | 159.9 | | | | | | | | | | | | | | |
| 3150 | 92.5 | 95.7 | 97.4 | 99.3 | 101.4 | 101.7 | 104.9 | 103.9 | 107.6 | 108.4 | 109.5 | 106.3 | 159.2 | | | | | | | | | | | | | | |
| 4000 | 89.9 | 93.2 | 95.8 | 97.7 | 100.7 | 100.3 | 102.9 | 102.5 | 105.5 | 105.1 | 106.4 | 105.4 | 157.2 | | | | | | | | | | | | | | |
| 5000 | 88.0 | 92.2 | 93.1 | 95.9 | 97.7 | 98.1 | 99.4 | 100.8 | 104.1 | 103.0 | 106.9 | 101.9 | 155.7 | | | | | | | | | | | | | | |
| 6300 | 87.1 | 91.6 | 92.8 | 96.3 | 98.5 | 97.7 | 99.7 | 99.3 | 102.6 | 102.2 | 104.4 | 104.3 | 155.5 | | | | | | | | | | | | | | |
| 8000 | 83.5 | 88.6 | 91.7 | 95.0 | 95.3 | 95.6 | 97.6 | 97.0 | 101.0 | 102.4 | 104.7 | 101.8 | 155.1 | | | | | | | | | | | | | | |
| 10000 | 80.2 | 85.0 | 89.0 | 92.6 | 91.2 | 92.7 | 93.5 | 92.7 | 97.5 | 99.8 | 103.9 | 98.7 | 153.9 | | | | | | | | | | | | | | |
| 12500 | 78.1 | 82.5 | 87.6 | 91.6 | 89.3 | 91.3 | 91.3 | 90.8 | 96.6 | 99.7 | 104.3 | 95.5 | 153.2 | | | | | | | | | | | | | | |
| 16000 | 79.3 | 83.7 | 89.8 | 94.9 | 92.1 | 94.8 | 95.7 | 91.1 | 100.1 | 105.0 | 107.4 | 97.8 | 161.7 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | 110.4 | 111.7 | 112.4 | 112.9 | 114.1 | 115.1 | 116.8 | 118.2 | 121.9 | 125.7 | 130.2 | 130.3 | 128.5 | 177.0 |
| PNDB | | | | | | | | | | | | | | 119.4 | 122.0 | 123.2 | 124.6 | 126.2 | 126.9 | 129.1 | 129.7 | 133.2 | 135.4 | 138.2 | 137.2 | 135.0 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7113 ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59 DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | INLET IN DEGREES (AND RADIAN) | 110. | 120. | 130. | 140. | 150. | | | | | | |
|----------------------------------|--|--------|--------|--------|--------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | | | | | | | | | | | | |
| NO EGA | 52 | (0.70) | (1.05) | (1.22) | (1.60) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.15) | (3.33) | (3.51) |
| SIDELINE 2400. FT.
(731.52 M) | 57.7 | 62.8 | 65.1 | 66.4 | 67.9 | 68.9 | 71.4 | 71.7 | 74.1 | 78.6 | 83.8 | 83.4 | 81.0 | | | | |
| MFA (1. RPM) | 60 | 60.9 | 64.1 | 66.9 | 70.0 | 71.2 | 72.2 | 72.7 | 75.2 | 81.9 | 85.6 | 86.2 | 82.7 | | | | |
| MFA (C. RAD/SEC) | 109 | 61.9 | 64.1 | 66.7 | 68.2 | 70.2 | 73.5 | 75.0 | 79.4 | 86.1 | 89.2 | 88.3 | 83.0 | | | | |
| MFA (C. RAD/SEC) | 125 | 65.0 | 67.7 | 69.1 | 71.1 | 72.9 | 74.6 | 75.9 | 77.6 | 82.3 | 86.4 | 89.0 | 83.6 | | | | |
| MFA (C. RAD/SEC) | 200 | 68.3 | 71.3 | 72.5 | 73.3 | 74.3 | 76.1 | 77.1 | 78.6 | 82.7 | 86.9 | 89.3 | 84.5 | | | | |
| MFA (7500. RPM) | 250 | 67.9 | 70.9 | 73.4 | 73.7 | 74.8 | 78.0 | 79.5 | 83.2 | 86.5 | 89.9 | 89.1 | 84.5 | | | | |
| MFA (785. RAD/SEC) | 315 | 71.8 | 72.5 | 73.7 | 73.1 | 74.9 | 75.9 | 78.2 | 79.9 | 83.2 | 85.8 | 89.9 | 86.0 | | | | |
| AIRFLOW RATIO | 400 | 72.9 | 74.9 | 75.7 | 75.4 | 75.0 | 76.5 | 78.5 | 80.1 | 83.5 | 85.5 | 89.0 | 83.7 | | | | |
| WF/WM 4.63 | 600 | 71.0 | 74.3 | 76.5 | 76.4 | 77.5 | 77.1 | 77.0 | 79.9 | 83.2 | 85.4 | 88.1 | 81.1 | | | | |
| VEHICLE CELL41 | 800 | 67.4 | 71.4 | 74.2 | 75.4 | 77.3 | 77.3 | 77.5 | 79.9 | 81.9 | 84.5 | 84.7 | 77.5 | | | | |
| CONFIG MCS4 | 1000 | 65.4 | 68.9 | 71.8 | 73.1 | 75.0 | 77.5 | 77.7 | 78.8 | 80.8 | 82.8 | 82.3 | 75.2 | | | | |
| LOC C41 ANECH CH | 1250 | 62.7 | 67.4 | 70.5 | 72.1 | 74.0 | 76.3 | 78.3 | 77.8 | 80.0 | 81.1 | 80.1 | 73.1 | | | | |
| DATE 06-11-76 | 1600 | 59.7 | 65.0 | 68.5 | 71.2 | 73.3 | 75.1 | 76.8 | 77.7 | 78.5 | 79.0 | 77.4 | 69.3 | | | | |
| RUN CONF7VELOEPN | 2000 | 56.0 | 63.0 | 65.8 | 68.9 | 71.9 | 72.3 | 74.9 | 75.6 | 76.5 | 76.0 | 73.6 | 65.8 | | | | |
| TAPE CONF7VELOEPN | 2500 | 51.2 | 58.6 | 62.5 | 65.8 | 67.7 | 69.8 | 71.9 | 71.4 | 72.5 | 71.4 | 68.6 | 60.3 | | | | |
| FAN TIP SPEED | 3150 | 44.9 | 53.0 | 57.7 | 61.5 | 64.6 | 65.3 | 68.1 | 66.1 | 68.0 | 65.7 | 62.2 | 52.7 | | | | |
| FT/SEC | 4000 | 34.2 | 43.7 | 50.2 | 54.5 | 58.8 | 58.8 | 61.0 | 59.3 | 63.0 | 55.6 | 50.8 | 39.3 | | | | |
| | 5000 | 27.7 | 38.9 | 44.1 | 49.6 | 52.8 | 53.7 | 54.5 | 55.1 | 49.7 | 46.5 | 29.8 | 6.3 | | | | |
| | 6000 | 13.0 | 26.8 | 33.7 | 40.7 | 44.9 | 44.7 | 46.0 | 43.7 | 43.5 | 37.4 | 30.3 | 14.3 | | | | |
| | 8000 | 6.2 | 17.2 | 25.3 | 28.2 | 29.3 | 30.5 | 27.3 | 26.5 | 20.0 | 9.5 | | | | | | |
| | 10000 | | | 3.1 | 5.3 | 8.0 | 7.5 | 3.3 | 1.5 | | | | | | | | |
| OVERALL CALCULATED | 16000 | 79.4 | 82.2 | 84.1 | 84.8 | 86.4 | 87.7 | 88.9 | 90.3 | 93.6 | 96.9 | 100.2 | 98.4 | 93.0 | | | |
| P-37 | | 72.9 | 88.4 | 90.6 | 92.0 | 94.2 | 95.5 | 97.1 | 98.0 | 100.1 | 102.0 | 104.5 | 101.2 | 94.2 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7113** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **SIZE FULL-.33m²(513in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| | PROC. DATE - MONTH 8 DAY 26 HR. 10.1 | | | | G. C. 0.) (0.) (0.) (0.) | | | | | | | | |
|------------------|--------------------------------------|-----|-----|-----|------------------------------|-----|------|------|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| ADG. NO. 0. | | | | | | | | | | | | | |
| RADIAL 40. FT. | | | | | | | | | | | | | |
| VEHICLE CELL41. | | | | | | | | | | | | | |
| CONFIG NC54 | | | | | | | | | | | | | |
| LOC C41 ANECH CH | | | | | | | | | | | | | |
| DATE 05-10-76 | | | | | | | | | | | | | |
| RUN CONF7VELDEPN | | | | | | | | | | | | | |
| TAPE X71140 | | | | | | | | | | | | | |
| BAR 29.4 HG | | | | | | | | | | | | | |
| (9212. N/M2) | | | | | | | | | | | | | |
| TAMB 69. DEG F | | | | | | | | | | | | | |
| (294. DEG K) | | | | | | | | | | | | | |
| TWET 64. DEG F | | | | | | | | | | | | | |
| (291. DEG K) | | | | | | | | | | | | | |
| HACT13.54 GM/M3 | | | | | | | | | | | | | |
| (.01354 KG/M3) | | | | | | | | | | | | | |
| FREQ. SHIFT | | | | | | | | | | | | | |
| JET 0 | | | | | | | | | | | | | |
| DIAMETER RATIO | | | | | | | | | | | | | |
| DF/DM 1.00 | | | | | | | | | | | | | |

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANES)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. G. C. 0.) (0.) (0.)

OVERALL MEASUREMENT
 OVERALL CALC L1 0 106.1 106.7 107.6 108.6 110.2 111.3 113.3 114.8 119.2 123.0 126.4 126.8 125.3
 113.6 119.2 120.0 120.6 122.2 123.2 125.1 127.4 131.7 135.4 138.4 137.2 136.7

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 7114 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 8 DAY 25 HR. 21-4

| RDG. NO. | VEHICLE CONFIG | LOC | DATE | TAPE | BAR | NO. EGAs | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | | | |
|--------------------|----------------|-----|------|------|-----|----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | 45. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| 50 | | | | | | | 84.5 | 87.9 | 89.7 | 89.5 | 91.6 | 92.7 | 94.6 | 95.2 | 98.7 | 105.0 | 110.9 | 112.9 | 113.7 | |
| 63 | | | | | | | 86.5 | 90.5 | 89.5 | 91.1 | 93.9 | 95.2 | 97.3 | 98.3 | 101.3 | 108.1 | 113.5 | 115.7 | 115.5 | 158.3 |
| 83 | | | | | | | 38.5 | 90.3 | 92.1 | 92.3 | 93.9 | 95.0 | 95.9 | 98.3 | 102.8 | 111.1 | 116.1 | 116.8 | 115.3 | 162.3 |
| 100 | | | | | | | 89.1 | 90.6 | 91.9 | 92.7 | 94.3 | 96.4 | 97.5 | 99.4 | 104.6 | 113.0 | 117.7 | 117.8 | 116.1 | 163.6 |
| 125 | | | | | | | 90.5 | 92.2 | 92.7 | 94.0 | 95.6 | 97.5 | 99.1 | 100.5 | 106.0 | 112.8 | 118.3 | 119.9 | 117.0 | 164.4 |
| 160 | | | | | | | 92.2 | 93.5 | 94.3 | 95.3 | 97.1 | 98.5 | 99.9 | 101.8 | 107.5 | 113.6 | 117.8 | 119.5 | 117.2 | 164.5 |
| 200 | | | | | | | 95.0 | 96.3 | 97.1 | 97.6 | 98.0 | 99.3 | 101.2 | 103.1 | 108.1 | 113.2 | 116.6 | 117.3 | 116.6 | 163.6 |
| 250 | | | | | | | 94.4 | 96.7 | 98.2 | 97.7 | 98.6 | 100.4 | 101.3 | 104.5 | 109.4 | 112.8 | 117.0 | 118.4 | 116.2 | 164.0 |
| 315 | | | | | | | 93.7 | 96.0 | 96.2 | 97.3 | 98.7 | 100.5 | 101.4 | 103.6 | 109.4 | 113.6 | 117.1 | 117.7 | 116.8 | 163.6 |
| 400 | | | | | | | 94.8 | 95.8 | 97.3 | 97.6 | 99.7 | 100.3 | 102.5 | 104.9 | 109.8 | 113.4 | 116.6 | 117.0 | 115.3 | 163.0 |
| 500 | | | | | | | 94.4 | 95.7 | 97.0 | 98.0 | 99.8 | 101.0 | 103.1 | 105.0 | 110.5 | 113.3 | 116.3 | 115.4 | 113.5 | 162.8 |
| 630 | | | | | | | 94.9 | 97.2 | 97.7 | 98.5 | 100.1 | 100.7 | 102.8 | 105.5 | 110.2 | 113.5 | 116.3 | 114.7 | 112.2 | 161.7 |
| 800 | | | | | | | 94.5 | 96.8 | 98.1 | 98.1 | 99.4 | 100.8 | 102.9 | 105.1 | 110.1 | 112.9 | 114.4 | 112.8 | 109.5 | 161.4 |
| 1000 | | | | | | | 96.1 | 98.4 | 98.2 | 99.0 | 99.6 | 101.2 | 103.3 | 106.2 | 109.5 | 112.3 | 114.0 | 112.2 | 109.4 | 161.3 |
| 1250 | | | | | | | 96.0 | 98.8 | 99.6 | 99.6 | 101.0 | 102.3 | 105.0 | 107.4 | 112.0 | 113.2 | 111.5 | 109.3 | 163.9 | |
| 1600 | | | | | | | 94.2 | 97.0 | 98.1 | 100.4 | 101.9 | 102.8 | 104.9 | 105.6 | 109.1 | 112.0 | 112.2 | 111.0 | 108.8 | 163.6 |
| 2000 | | | | | | | 92.3 | 96.2 | 97.3 | 99.5 | 102.4 | 102.5 | 104.6 | 105.5 | 108.8 | 111.7 | 111.1 | 111.0 | 108.2 | 163.6 |
| 2500 | | | | | | | 89.6 | 95.6 | 96.7 | 98.4 | 100.7 | 101.8 | 104.2 | 104.1 | 107.2 | 109.1 | 110.3 | 109.1 | 107.6 | 159.3 |
| 3150 | | | | | | | 89.2 | 95.0 | 96.6 | 99.1 | 100.4 | 101.2 | 104.4 | 103.1 | 106.9 | 108.1 | 108.5 | 109.0 | 106.5 | 158.8 |
| 4000 | | | | | | | 87.4 | 92.2 | 94.8 | 96.9 | 100.4 | 100.0 | 102.7 | 102.0 | 105.5 | 104.6 | 105.4 | 105.9 | 104.0 | 150.9 |
| 5000 | | | | | | | 85.7 | 91.0 | 92.6 | 94.4 | 97.6 | 98.1 | 99.1 | 100.3 | 104.4 | 102.8 | 104.1 | 102.2 | 102.0 | 155.1 |
| 6300 | | | | | | | 83.8 | 89.4 | 92.8 | 94.5 | 97.3 | 97.5 | 99.7 | 99.0 | 102.6 | 101.7 | 102.6 | 105.0 | 101.3 | 155.1 |
| 8000 | | | | | | | 81.0 | 86.9 | 91.0 | 92.5 | 93.8 | 95.6 | 97.3 | 96.7 | 102.2 | 101.8 | 102.4 | 102.8 | 100.6 | 154.4 |
| 10000 | | | | | | | 78.2 | 83.3 | 87.5 | 89.1 | 89.7 | 92.7 | 93.0 | 92.7 | 97.3 | 101.8 | 100.6 | 98.4 | 98.0 | 153.0 |
| 12500 | | | | | | | 77.3 | 81.3 | 86.4 | 86.8 | 86.3 | 90.8 | 91.1 | 90.9 | 95.4 | 101.0 | 100.6 | 94.3 | 95.3 | 153.8 |
| 16000 | | | | | | | 80.1 | 83.4 | 89.8 | 87.7 | 87.2 | 94.8 | 95.7 | 90.7 | 96.9 | 103.1 | 104.2 | 97.1 | 97.8 | 160.1 |
| OVERALL CALCULATED | | | | | | | 106.1 | 108.7 | 109.8 | 110.8 | 112.6 | 113.6 | 115.6 | 117.0 | 121.4 | 125.1 | 128.3 | 128.6 | 127.0 | 175.6 |
| NDR | | | | | | | 116.0 | 120.1 | 121.6 | 123.3 | 125.1 | 126.0 | 128.3 | 128.6 | 132.6 | 135.0 | 136.7 | 136.6 | 134.5 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7114 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|---|------|------|------|------|------|------|------|------|-------|-------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (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)(3.3)(3.6)(4.0) | 50 | 56.5 | 61.3 | 64.1 | 64.7 | 67.2 | 68.4 | 70.2 | 70.4 | 73.1 | 78.4 | 82.6 | 82.4 |
| NO EGA (731.52 M) | 63 | 58.2 | 63.9 | 64.0 | 66.2 | 69.5 | 71.0 | 71.7 | 72.5 | 75.7 | 81.4 | 85.3 | 85.2 |
| SIDELINE 2400. FT. (731.52 M) | 80 | 60.2 | 63.6 | 66.4 | 67.4 | 69.5 | 70.7 | 71.5 | 73.4 | 77.2 | 84.4 | 87.7 | 86.1 |
| MFA (0. RPM/SEC) | 100 | 60.7 | 63.8 | 65.2 | 67.7 | 69.7 | 72.0 | 73.1 | 74.5 | 78.9 | 86.1 | 89.2 | 87.1 |
| NFA (1. RPM/SEC) | 125 | 61.9 | 65.3 | 66.9 | 69.0 | 71.0 | 73.0 | 74.5 | 75.5 | 80.2 | 85.9 | 89.7 | 88.3 |
| NFD (0. RAD/SEC) | 160 | 63.5 | 66.4 | 68.3 | 70.1 | 72.4 | 73.9 | 75.1 | 76.6 | 81.6 | 86.5 | 89.0 | 87.8 |
| NFK (1. RPM/SEC) | 200 | 66.1 | 69.1 | 71.0 | 72.3 | 73.1 | 74.6 | 76.3 | 77.8 | 82.0 | 85.9 | 87.7 | 85.9 |
| NFD 7500. RPM | 250 | 65.2 | 69.2 | 71.9 | 72.2 | 73.5 | 75.4 | 76.3 | 79.0 | 83.2 | 85.3 | 87.7 | 86.6 |
| (785. RAD/SEC) | 315 | 64.2 | 68.3 | 69.5 | 71.6 | 73.4 | 75.4 | 76.2 | 77.9 | 83.5 | 85.9 | 87.5 | 85.5 |
| AIRFLOW RATIO | 400 | 64.8 | 67.7 | 70.5 | 71.6 | 74.2 | 74.9 | 76.9 | 78.9 | 83.0 | 85.3 | 86.6 | 84.3 |
| WF/W | 500 | 63.9 | 67.1 | 69.7 | 71.6 | 74.0 | 75.2 | 77.2 | 78.6 | 83.2 | 84.7 | 85.7 | 82.6 |
| VEHICLE CELL41 | 630 | 63.7 | 68.1 | 70.0 | 71.7 | 73.8 | 74.6 | 76.5 | 78.7 | 82.5 | 84.2 | 85.1 | 80.3 |
| CONFIG NC54 | 800 | 62.4 | 66.9 | 69.7 | 73.7 | 72.5 | 74.1 | 76.0 | 78.7 | 81.7 | 83.0 | 82.2 | 77.2 |
| LOC C41 ANECH CH | 1000 | 62.9 | 67.6 | 69.0 | 70.8 | 72.0 | 73.8 | 75.7 | 78.1 | 81.3 | 81.5 | 80.8 | 73.2 |
| DATE C6-10-76 | 1250 | 61.5 | 66.9 | 69.5 | 70.6 | 72.5 | 74.1 | 76.5 | 76.6 | 79.2 | 80.1 | 78.6 | 73.1 |
| RUN CONF7VELDEPN | 1600 | 57.7 | 63.5 | 66.5 | 70.0 | 72.3 | 73.3 | 75.3 | 75.2 | 77.5 | 78.5 | 75.7 | 69.8 |
| TAPE X71140 | 2000 | 53.5 | 60.8 | 64.0 | 67.6 | 71.2 | 71.5 | 73.4 | 73.6 | 75.5 | 76.2 | 72.3 | 66.8 |
| FAN TIP SPEED FT/SEC | 2500 | 47.4 | 57.3 | 61.0 | 64.3 | 67.4 | 68.8 | 70.9 | 69.9 | 71.5 | 70.9 | 68.1 | 60.5 |
| | 3150 | 41.7 | 52.2 | 57.0 | 61.3 | 63.6 | 64.8 | 67.6 | 65.3 | 67.2 | 65.4 | 61.0 | 53.5 |
| | 4000 | 31.7 | 42.7 | 49.2 | 53.7 | 58.5 | 58.5 | 60.3 | 58.8 | 60.0 | 55.1 | 49.8 | 39.8 |
| | 5000 | 25.4 | 37.6 | 43.6 | 48.1 | 52.8 | 53.7 | 54.3 | 54.0 | 55.4 | 49.4 | 43.8 | 30.1 |
| | 6300 | 9.8 | 24.6 | 33.7 | 38.9 | 43.6 | 44.4 | 46.0 | 43.5 | 43.5 | 36.9 | 28.6 | 15.1 |
| | 8000 | 4.5 | 16.5 | 22.8 | 26.7 | 29.3 | 29.3 | 30.2 | 27.0 | 25.7 | 19.5 | 7.3 | |
| | 10000 | | | | 3.8 | 8.0 | 9.0 | 7.1 | 3.3 | 1.3 | | | |
| OVERALL CALCULATED | 74.9 | 78.8 | 81.1 | 82.6 | 84.7 | 86.1 | 87.7 | 89.2 | 93.1 | 96.3 | 98.5 | 94.5 | 91.2 |
| | 79.6 | 84.8 | 87.7 | 90.3 | 93.0 | 94.0 | 95.9 | 96.5 | 99.4 | 101.4 | 102.2 | 99.2 | 92.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7/14** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (SP, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

PROC. DATE - MONTH 8 DAY 26 HR. 10.1

40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. PHL
 FREQ. (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)

| NO | ESG | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 | 10000 | 12500 | 16000 | 20000 | 25000 | 31500 | 40000 | 50000 | 63000 | 80000 | | | | | | | |
|--------------------|----------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|--|--|--|--|--|
| RADIAL | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | | | | |
| VEHICLE | CELL41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOC | CA1 ANECH CH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | 06-10-76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RUN | COMI7VELOEPN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAPE | K71150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAR | 29.4 HG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAMB | 67. DEG F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TWET | 63. DEG F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HACT | 13.20 GM/M3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FREQ. SHIFT | (.01320 KG/M3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JET | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIAMETER RATIO | DF/DN 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
 7 7115 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

| NO EGA | FULL SCALE DATA REDUCTION PROGRAM | | | | | | | | | | PROC. DATE - MONTH 8 DAY 25 HR. 21.4 | | | | |
|--------------------|-----------------------------------|-------|-------|-------|-------|--|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|
| | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | REL. HUM. DAY - JENOTS | | | | |
| RDG. NO. | U. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
| 50 | 84.4 | 88.4 | 89.5 | 91.3 | 92.7 | 94.6 | 95.5 | 98.7 | 104.5 | 110.4 | 112.6 | 113.9 | 115.1 | 115.5 | 158.1 |
| 63 | 86.5 | 90.3 | 89.8 | 92.0 | 91.6 | 93.4 | 94.8 | 95.7 | 97.1 | 100.8 | 107.1 | 112.3 | 115.2 | 115.5 | 163.2 |
| 80 | 88.3 | 89.8 | 90.1 | 91.6 | 93.4 | 94.8 | 95.7 | 98.1 | 103.0 | 109.6 | 114.8 | 116.3 | 115.5 | 115.5 | 161.6 |
| 107 | 88.6 | 90.1 | 91.6 | 93.8 | 95.4 | 96.7 | 98.9 | 105.5 | 111.3 | 114.8 | 117.2 | 116.5 | 116.5 | 116.5 | 162.4 |
| 125 | 90.0 | 91.7 | 92.5 | 94.0 | 95.0 | 97.1 | 97.7 | 99.1 | 101.5 | 107.3 | 112.1 | 114.8 | 116.2 | 116.5 | 162.0 |
| 160 | 91.5 | 93.2 | 94.0 | 95.0 | 97.0 | 97.8 | 99.7 | 101.3 | 103.5 | 109.2 | 112.8 | 114.0 | 116.2 | 116.2 | 162.5 |
| 203 | 93.8 | 95.3 | 96.1 | 97.2 | 97.0 | 98.4 | 100.8 | 101.4 | 103.1 | 109.5 | 112.9 | 114.3 | 116.5 | 116.0 | 163.2 |
| 250 | 92.9 | 95.4 | 97.2 | 97.0 | 98.2 | 99.3 | 100.7 | 103.1 | 105.0 | 110.7 | 112.9 | 115.4 | 117.0 | 115.3 | 163.1 |
| 315 | 93.2 | 95.5 | 96.0 | 97.1 | 97.4 | 99.7 | 100.1 | 102.5 | 104.9 | 110.1 | 112.9 | 115.4 | 117.0 | 114.0 | 162.7 |
| 400 | 94.3 | 95.3 | 97.1 | 97.2 | 98.2 | 99.3 | 100.7 | 103.1 | 105.0 | 110.7 | 112.9 | 115.4 | 117.0 | 114.0 | 161.3 |
| 500 | 94.4 | 96.0 | 97.2 | 98.2 | 98.2 | 99.3 | 100.7 | 103.1 | 105.0 | 110.7 | 112.9 | 115.4 | 117.0 | 114.0 | 161.2 |
| 633 | 94.9 | 96.5 | 97.5 | 98.5 | 98.5 | 100.1 | 101.0 | 103.1 | 105.8 | 110.5 | 113.3 | 115.5 | 115.2 | 112.5 | 161.3 |
| 800 | 94.5 | 96.5 | 97.3 | 98.1 | 98.1 | 99.4 | 101.0 | 103.2 | 106.3 | 109.6 | 112.7 | 114.3 | 112.8 | 110.0 | 161.3 |
| 1000 | 94.9 | 96.4 | 97.5 | 98.2 | 98.2 | 99.8 | 101.2 | 103.8 | 106.5 | 109.7 | 112.3 | 113.5 | 112.1 | 109.9 | 161.3 |
| 1250 | 94.5 | 96.8 | 97.4 | 98.6 | 98.6 | 100.7 | 102.3 | 104.7 | 106.4 | 109.9 | 112.2 | 112.4 | 111.6 | 109.6 | 161.2 |
| 1600 | 93.5 | 96.0 | 97.1 | 98.9 | 98.9 | 100.9 | 102.5 | 105.4 | 105.9 | 109.9 | 112.0 | 111.7 | 110.0 | 108.8 | 160.8 |
| 2000 | 92.3 | 97.2 | 97.0 | 98.5 | 98.5 | 101.1 | 101.7 | 104.3 | 106.3 | 109.8 | 111.2 | 110.9 | 110.0 | 108.5 | 160.5 |
| 2500 | 90.8 | 96.6 | 97.2 | 97.9 | 97.9 | 99.7 | 101.1 | 103.7 | 104.3 | 107.7 | 109.4 | 109.3 | 108.6 | 107.8 | 159.1 |
| 3150 | 89.4 | 95.2 | 97.1 | 99.3 | 99.3 | 100.1 | 100.2 | 103.4 | 103.4 | 107.4 | 107.9 | 108.3 | 108.0 | 107.0 | 158.6 |
| 4000 | 87.4 | 92.7 | 95.0 | 96.9 | 96.9 | 100.4 | 99.5 | 102.4 | 101.7 | 105.0 | 105.1 | 104.7 | 105.6 | 104.0 | 156.7 |
| 5000 | 86.0 | 91.5 | 92.6 | 95.2 | 95.2 | 96.9 | 98.1 | 98.9 | 100.3 | 103.9 | 102.5 | 104.3 | 101.7 | 103.0 | 154.9 |
| 8070 | 81.8 | 87.9 | 91.2 | 93.0 | 93.0 | 94.3 | 95.4 | 97.1 | 96.2 | 101.2 | 102.6 | 102.2 | 102.3 | 100.1 | 155.3 |
| 10000 | 78.6 | 84.5 | 88.5 | 89.3 | 89.3 | 88.9 | 92.5 | 92.7 | 92.2 | 98.8 | 100.3 | 101.4 | 96.9 | 97.0 | 154.6 |
| 12500 | 77.3 | 82.0 | 86.8 | 87.0 | 86.1 | 86.1 | 90.7 | 90.8 | 90.6 | 97.1 | 100.4 | 101.8 | 94.7 | 95.3 | 153.0 |
| 16000 | 80.1 | 83.9 | 90.0 | 87.7 | 85.8 | 84.5 | 94.5 | 95.6 | 90.6 | 100.0 | 105.2 | 104.1 | 97.5 | 97.7 | 154.1 |
| OVERALL CALCULATED | 105.5 | 108.2 | 109.3 | 110.4 | 112.2 | 113.3 | 115.5 | 117.1 | 121.5 | 124.5 | 126.6 | 127.6 | 126.9 | 126.9 | 174.8 |
| PHOB | 116.0 | 120.3 | 121.6 | 123.2 | 124.8 | 125.4 | 127.9 | 128.7 | 132.9 | 134.7 | 135.7 | 135.7 | 134.7 | 134.7 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 7115 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|---------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN)S | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | (0.70)(0.67) | (1.05)(1.22) | (1.40)(1.57) | (1.75)(1.92) | (2.09)(2.27) | (2.44)(2.62) | (2.79)(3.00) | (3.14)(3.35) | (3.49)(3.72) | (3.84)(4.08) | (4.19)(4.44) | (4.54)(4.80) | (4.89)(5.16) |
| NO EGA | | 52 | 56.2 | 61.8 | 63.6 | 64.7 | 66.9 | 68.4 | 70.2 | 70.7 | 73.1 | 77.9 | 82.3 | 82.2 |
| SIDELINE 2400. FT. | | 63 | 58.2 | 63.6 | 63.7 | 66.0 | 69.0 | 70.5 | 71.2 | 72.2 | 75.2 | 80.4 | 84.1 | 84.7 |
| (731.52 M) | | 80 | 59.9 | 63.1 | 66.4 | 66.7 | 69.0 | 70.5 | 71.2 | 73.2 | 77.4 | 82.9 | 86.5 | 85.6 |
| %FA | 1. RPM | 100 | 60.2 | 63.3 | 65.9 | 68.0 | 69.7 | 71.5 | 73.0 | 73.7 | 77.9 | 84.1 | 86.7 | 86.1 |
| (| 0. RAD/SEC) | 125 | 61.4 | 64.8 | 66.7 | 68.7 | 70.7 | 72.2 | 74.2 | 75.5 | 79.7 | 84.4 | 86.2 | 86.3 |
| NFK | 1. RPM | 160 | 62.7 | 66.2 | 68.1 | 69.9 | 72.4 | 73.1 | 74.4 | 76.4 | 81.3 | 85.0 | 86.0 | 85.5 |
| (| 0. RAD/SEC) | 200 | 64.8 | 68.1 | 70.0 | 71.1 | 72.8 | 74.1 | 75.3 | 77.6 | 81.7 | 84.9 | 84.9 | 83.9 |
| NFD | 750. RPM | 250 | 63.7 | 67.9 | 70.9 | 71.5 | 72.8 | 74.8 | 76.3 | 78.0 | 82.9 | 85.3 | 84.7 | 84.4 |
| (| 785. RAD/SEC) | 315 | 63.7 | 67.8 | 69.5 | 70.9 | 73.2 | 75.7 | 76.2 | 77.4 | 83.0 | 85.1 | 84.8 | 84.3 |
| AIRFLOW RATIO | | 400 | 64.3 | 67.2 | 70.2 | 71.4 | 74.2 | 74.7 | 76.9 | 78.9 | 83.2 | 84.8 | 85.4 | 84.3 |
| 4F/WM | 4.63 | 500 | 63.9 | 67.4 | 70.0 | 71.9 | 73.5 | 75.0 | 77.2 | 78.6 | 83.5 | 84.0 | 85.2 | 83.2 |
| VEHICLE | CELL 1 | 630 | 63.7 | 67.3 | 69.7 | 71.7 | 73.8 | 74.8 | 76.3 | 78.9 | 82.7 | 84.2 | 84.3 | 80.8 |
| CONFIG | NC54 | 800 | 62.4 | 66.6 | 68.9 | 70.6 | 72.5 | 74.3 | 76.3 | 78.9 | 81.2 | 82.8 | 82.2 | 77.2 |
| LOC | C41 ANECH CH | 1250 | 60.0 | 64.9 | 67.2 | 69.6 | 72.3 | 74.1 | 76.3 | 77.3 | 79.7 | 80.3 | 80.3 | 75.2 |
| DATE | 06-10-76 | 1600 | 57.0 | 62.5 | 65.5 | 68.5 | 71.3 | 73.1 | 75.8 | 75.5 | 78.3 | 78.5 | 75.2 | 68.8 |
| RUN | CONTRVLEDPN | 2000 | 53.5 | 61.8 | 63.3 | 66.6 | 69.9 | 70.8 | 73.2 | 74.4 | 76.5 | 75.7 | 72.1 | 65.7 |
| TAPE | X71150 | 2500 | 48.7 | 58.3 | 61.5 | 63.7 | 66.4 | 68.1 | 70.4 | 70.1 | 72.0 | 71.1 | 67.1 | 60.0 |
| FAN TIP SPEED | | 3150 | 41.9 | 52.5 | 57.5 | 61.5 | 63.4 | 63.8 | 66.6 | 65.6 | 67.7 | 65.2 | 60.7 | 52.5 |
| FT/SEC | | 4000 | 31.7 | 43.2 | 49.4 | 53.7 | 58.5 | 58.0 | 60.5 | 58.5 | 59.5 | 55.6 | 49.1 | 39.6 |
| | | 5000 | 25.7 | 38.1 | 43.6 | 48.8 | 52.0 | 53.7 | 54.0 | 54.0 | 54.9 | 49.2 | 44.0 | 29.6 |
| | | 6300 | 10.3 | 26.1 | 33.7 | 39.7 | 43.4 | 44.2 | 45.5 | 43.5 | 43.8 | 37.4 | 28.8 | 13.3 |
| | | 8000 | 5.5 | 16.7 | 23.3 | 27.2 | 29.1 | 29.9 | 26.5 | 26.7 | 20.2 | 7.0 | 2.7 | |
| | | 10000 | | | | | | | | | | | | |
| | | 12500 | | | | | | | | | | | | |
| OVERALL CALCULATED | | 16000 | 74.2 | 78.2 | 80.5 | 82.2 | 84.4 | 85.8 | 87.6 | 89.2 | 93.1 | 95.5 | 96.4 | 95.4 |
| | | | 79.1 | 84.5 | 87.1 | 89.6 | 92.3 | 93.7 | 95.9 | 96.7 | 99.7 | 100.9 | 100.7 | 98.5 |
| | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **7115** ACUSTIC RANGE **731.5m(2400ft.)** SIDELINE **731.5m²(5131in²)**
 FULL - **33m²(5131in²)**

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MURTH 9 DAY 7 HR. 13.5
MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
ANGLES FROM INLET IN DEGREES (AND RADIANS)
60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.
C. 75 (1.55) (1.22) (1.40) (1.57) (1.75) (1.92) (2.09) (2.27) (2.44) (2.62) (2.79) (U.) (C.) (S.) (S.)

| NO EGA | ROG. NO. | 40. FT. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--------------------|----------|---------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 100 | 67.4 | 76.2 | 74.2 | 75.2 | 76.3 | 77.2 | 77.0 | 77.7 | 78.9 | 81.0 | 83.4 | 85.9 | 87.6 | 121.5 |
| 125 | 67.8 | 71.6 | 73.4 | 74.9 | 76.2 | 78.4 | 77.2 | 79.7 | 79.1 | 78.7 | 85.4 | 86.6 | 87.6 | 122.4 |
| 160 | 68.9 | 69.9 | 72.0 | 73.2 | 73.8 | 76.2 | 74.5 | 78.2 | 79.4 | 82.2 | 86.9 | 86.9 | 86.7 | 122.9 |
| 200 | 69.5 | 70.0 | 72.0 | 73.3 | 73.7 | 74.8 | 75.7 | 77.8 | 80.5 | 83.0 | 87.6 | 91.5 | 92.5 | 123.4 |
| 250 | 69.1 | 71.8 | 73.1 | 72.9 | 74.2 | 75.8 | 77.7 | 79.6 | 81.1 | 83.2 | 87.9 | 92.3 | 93.6 | 127.0 |
| 315 | 70.4 | 73.7 | 75.7 | 75.7 | 77.6 | 77.9 | 78.6 | 81.0 | 83.4 | 86.3 | 91.5 | 94.6 | 95.4 | 128.6 |
| 400 | 71.9 | 74.0 | 76.0 | 76.5 | 77.3 | 78.2 | 79.3 | 80.0 | 84.5 | 87.5 | 92.2 | 94.9 | 94.7 | 128.9 |
| 500 | 72.5 | 73.5 | 75.3 | 76.3 | 77.7 | 79.0 | 80.2 | 82.6 | 85.0 | 86.6 | 92.8 | 94.0 | 93.3 | 128.7 |
| 630 | 73.4 | 75.4 | 76.1 | 77.2 | 78.8 | 79.9 | 81.5 | 83.2 | 85.9 | 86.5 | 91.9 | 92.8 | 91.1 | 128.0 |
| 800 | 73.6 | 75.4 | 77.2 | 78.4 | 79.5 | 80.7 | 81.8 | 84.2 | 86.2 | 87.0 | 91.4 | 88.2 | 88.2 | 127.7 |
| 1000 | 74.5 | 76.2 | 77.5 | 78.3 | 79.9 | 81.0 | 81.9 | 84.3 | 86.2 | 86.3 | 91.0 | 88.9 | 88.5 | 126.9 |
| 1250 | 74.3 | 76.1 | 78.6 | 78.9 | 79.7 | 81.6 | 81.7 | 84.6 | 86.3 | 86.6 | 89.4 | 87.5 | 83.0 | 126.4 |
| 1600 | 74.6 | 76.4 | 77.4 | 78.5 | 80.3 | 81.7 | 82.3 | 83.7 | 86.4 | 86.5 | 86.5 | 86.1 | 82.4 | 126.0 |
| 2000 | 74.2 | 76.0 | 77.5 | 77.5 | 79.8 | 81.0 | 82.3 | 83.8 | 85.2 | 87.1 | 86.8 | 84.2 | 80.7 | 125.0 |
| 2500 | 74.3 | 75.8 | 77.1 | 77.9 | 79.5 | 80.1 | 81.5 | 83.4 | 85.1 | 85.2 | 84.9 | 82.3 | 78.8 | 126.0 |
| 3150 | 73.5 | 75.5 | 77.6 | 78.1 | 79.7 | 79.8 | 80.9 | 83.1 | 84.8 | 85.4 | 84.3 | 81.0 | 78.0 | 123.9 |
| 4000 | 72.5 | 74.6 | 76.6 | 76.9 | 78.2 | 79.3 | 80.5 | 82.6 | 83.8 | 83.9 | 82.1 | 79.3 | 76.3 | 122.8 |
| 5000 | 71.6 | 73.7 | 75.7 | 75.7 | 78.3 | 79.2 | 79.6 | 82.2 | 83.5 | 83.1 | 81.8 | 79.2 | 76.7 | 122.4 |
| 6300 | 70.4 | 73.0 | 74.5 | 76.3 | 78.1 | 79.5 | 80.9 | 81.6 | 83.3 | 82.2 | 81.1 | 79.7 | 78.5 | 123.4 |
| 8000 | 69.7 | 72.0 | 73.6 | 75.4 | 77.9 | 78.8 | 80.2 | 81.4 | 82.8 | 82.0 | 80.4 | 78.5 | 78.3 | 125.1 |
| 10000 | 67.6 | 71.5 | 72.8 | 74.5 | 77.3 | 77.7 | 79.3 | 80.3 | 82.0 | 80.9 | 78.8 | 77.7 | 77.7 | 121.5 |
| 12500 | 65.2 | 69.2 | 70.8 | 72.8 | 75.6 | 76.5 | 78.1 | 78.2 | 79.6 | 79.6 | 77.4 | 77.2 | 77.0 | 125.3 |
| 15000 | 63.5 | 66.2 | 68.7 | 71.9 | 74.1 | 74.7 | 77.1 | 76.7 | 79.4 | 77.4 | 75.6 | 75.3 | 75.7 | 119.8 |
| 20000 | 60.7 | 63.7 | 66.8 | 68.4 | 72.4 | 72.5 | 75.2 | 73.2 | 75.8 | 73.8 | 71.7 | 71.6 | 69.8 | 117.8 |
| 31500 | 54.6 | 59.1 | 62.5 | 63.9 | 66.2 | 66.9 | 68.6 | 67.7 | 69.0 | 69.4 | 69.7 | 65.8 | 65.9 | 115.1 |
| 40000 | 49.6 | 54.3 | 58.8 | 59.4 | 61.0 | 62.8 | 65.0 | 61.6 | 63.6 | 61.6 | 59.0 | 58.2 | 56.1 | 113.6 |
| 50000 | 44.2 | 48.0 | 52.9 | 52.9 | 52.9 | 57.5 | 57.5 | 53.9 | 55.4 | 52.8 | 51.4 | 47.8 | 47.0 | 110.6 |
| 63000 | 39.0 | 41.8 | 46.5 | 45.5 | 45.3 | 51.5 | 51.1 | 45.3 | 46.0 | 44.2 | 42.3 | 37.9 | 37.3 | 109.8 |
| 80000 | 35.7 | 38.3 | 44.2 | 41.2 | 40.5 | 49.4 | 49.8 | 35.6 | 37.0 | 39.8 | 36.0 | 31.3 | 33.1 | 116.1 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 55.5 | 87.7 | 89.2 | 90.1 | 91.7 | 92.8 | 93.3 | 95.6 | 97.5 | 99.3 | 101.9 | 102.8 | 102.5 | 139.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 760R ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
SCALE FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| NO. EGA
ROG. NO. D.
RADIAL 150. FT.
(40. M)
VEHICLE
CORFIG
LOC
DATE
RUN
TAPE
BAR
TAMB
TWT
HACT
FREQ.
JET
DIAMETER RATIO
SF/DM | FULL SIZE SOUND PRESSURE LEVELS | | | SCALED FROM MODEL DATA | | | ANGLES FROM INLET | | | INLET IN DEGREES (AND RADIAN) | | | PROC. DATE - MONTH 9 DAY 7 HR. 17.6 | | | |
|--|---------------------------------|------|-------|------------------------|-------|-------|-------------------|-------|-------|-------------------------------|-------|-------|-------------------------------------|----|----|----|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. |
| 50 | 70.9 | 73.7 | 74.9 | 74.7 | 76.1 | 77.7 | 79.6 | 81.5 | 82.9 | 87.0 | 92.7 | 94.6 | 95.4 | 0. | 0. | 0. |
| 63 | 72.2 | 75.5 | 75.8 | 77.6 | 79.4 | 79.8 | 80.4 | 82.8 | 85.2 | 88.1 | 93.3 | 96.5 | 97.3 | 0. | 0. | 0. |
| 80 | 73.6 | 75.8 | 77.6 | 78.3 | 79.2 | 80.0 | 81.2 | 83.8 | 86.3 | 89.4 | 94.1 | 96.8 | 96.5 | 0. | 0. | 0. |
| 100 | 74.4 | 75.4 | 77.1 | 78.2 | 79.5 | 80.9 | 82.0 | 84.4 | 86.9 | 90.4 | 94.7 | 95.8 | 95.1 | 0. | 0. | 0. |
| 125 | 75.2 | 77.2 | 78.0 | 79.0 | 80.6 | 81.7 | 83.4 | 85.0 | 87.7 | 90.3 | 93.8 | 94.7 | 93.0 | 0. | 0. | 0. |
| 165 | 75.5 | 77.2 | 79.0 | 80.3 | 81.4 | 82.5 | 83.6 | 86.0 | 88.0 | 90.8 | 93.8 | 93.2 | 90.0 | 0. | 0. | 0. |
| 200 | 76.3 | 78.1 | 79.3 | 80.1 | 81.7 | 82.8 | 83.7 | 86.1 | 87.8 | 90.2 | 92.9 | 90.3 | 88.5 | 0. | 0. | 0. |
| 250 | 76.1 | 77.9 | 80.4 | 80.7 | 81.6 | 83.4 | 83.6 | 86.5 | 88.2 | 90.5 | 91.2 | 89.4 | 85.4 | 0. | 0. | 0. |
| 315 | 76.5 | 78.3 | 79.3 | 80.3 | 82.2 | 83.5 | 84.2 | 85.6 | 88.3 | 90.4 | 90.3 | 86.0 | 84.3 | 0. | 0. | 0. |
| 400 | 76.0 | 77.8 | 79.5 | 79.4 | 81.7 | 82.8 | 84.2 | 85.6 | 87.1 | 88.9 | 88.6 | 86.0 | 82.6 | 0. | 0. | 0. |
| 500 | 76.2 | 77.7 | 79.0 | 79.7 | 81.3 | 82.0 | 83.3 | 85.2 | 87.0 | 87.1 | 86.8 | 84.2 | 80.7 | 0. | 0. | 0. |
| 630 | 75.4 | 77.5 | 79.5 | 80.0 | 81.6 | 81.7 | 82.4 | 84.6 | 85.8 | 85.9 | 84.1 | 81.3 | 78.3 | 0. | 0. | 0. |
| 800 | 74.5 | 76.5 | 78.6 | 78.8 | 80.2 | 81.3 | 82.4 | 84.6 | 85.8 | 85.9 | 84.1 | 81.3 | 78.3 | 0. | 0. | 0. |
| 1000 | 73.6 | 75.7 | 77.7 | 79.0 | 80.3 | 81.2 | 81.6 | 84.2 | 85.4 | 85.0 | 83.7 | 81.1 | 78.7 | 0. | 0. | 0. |
| 1250 | 72.5 | 75.1 | 76.9 | 78.4 | 80.2 | 81.6 | 83.0 | 83.6 | 85.4 | 84.2 | 83.2 | 81.8 | 80.6 | 0. | 0. | 0. |
| 1600 | 71.9 | 74.3 | 75.8 | 77.6 | 80.2 | 81.0 | 82.4 | 83.6 | 85.1 | 84.2 | 82.6 | 80.8 | 80.5 | 0. | 0. | 0. |
| 2000 | 70.1 | 73.9 | 75.2 | 77.0 | 79.8 | 80.2 | 81.8 | 82.7 | 84.5 | 83.4 | 81.3 | 81.2 | 80.2 | 0. | 0. | 0. |
| 2500 | 68.0 | 71.0 | 73.6 | 75.6 | 78.4 | 79.3 | 80.9 | 81.0 | 82.4 | 82.0 | 80.2 | 80.0 | 79.8 | 0. | 0. | 0. |
| 3150 | 66.9 | 69.6 | 72.0 | 75.2 | 77.5 | 78.1 | 80.5 | 80.0 | 82.3 | 80.7 | 79.1 | 78.7 | 79.1 | 0. | 0. | 0. |
| 4000 | 64.7 | 67.7 | 70.8 | 72.5 | 76.5 | 76.6 | 79.2 | 77.3 | 79.3 | 77.8 | 75.7 | 75.7 | 75.9 | 0. | 0. | 0. |
| 5000 | 62.7 | 66.7 | 68.8 | 70.7 | 73.6 | 74.6 | 75.4 | 75.8 | 78.6 | 74.7 | 75.0 | 71.1 | 71.2 | 0. | 0. | 0. |
| 6300 | 61.5 | 66.0 | 69.4 | 70.9 | 73.2 | 73.9 | 75.6 | 74.6 | 75.9 | 72.7 | 71.7 | 71.6 | 69.1 | 0. | 0. | 0. |
| 8000 | 58.8 | 63.6 | 68.1 | 68.7 | 70.3 | 72.1 | 74.3 | 70.9 | 72.9 | 70.9 | 68.3 | 67.5 | 65.3 | 0. | 0. | 0. |
| 10000 | 56.0 | 60.3 | 65.2 | 65.0 | 65.2 | 69.8 | 69.8 | 66.2 | 67.7 | 65.1 | 63.8 | 60.1 | 59.3 | 0. | 0. | 0. |
| 12500 | 55.7 | 58.5 | 63.3 | 62.3 | 62.1 | 68.3 | 67.9 | 62.8 | 61.0 | 59.1 | 54.7 | 54.6 | 54.6 | 0. | 0. | 0. |
| 16000 | 58.8 | 61.4 | 67.3 | 64.1 | 63.6 | 72.5 | 72.9 | 58.8 | 60.1 | 62.9 | 59.1 | 54.1 | 56.3 | 0. | 0. | 0. |
| LATED | 87.1 | 89.1 | 90.8 | 91.7 | 93.4 | 94.4 | 95.6 | 97.3 | 99.2 | 100.9 | 103.3 | 104.1 | 103.4 | 0. | 0. | 0. |
| PND8 | 95.1 | 98.0 | 100.0 | 101.6 | 103.3 | 104.7 | 106.3 | 106.8 | 109.0 | 108.6 | 108.4 | 107.7 | 106.3 | 0. | 0. | 0. |

OVERALL CAL. LATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **760R** ACOUSTIC RANGE **45.7m(150ft.) ARC** SIZE **FULL - 33m²(513in²)**

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | U. | | | | | | | | |
|--|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 40. | 50. | 60. | 70. | 80. | | | | | | | | | |
| | 50 | 42.7 | 47.1 | 49.4 | 49.9 | 51.7 | 53.4 | 55.2 | 56.7 | 57.4 | 60.4 | 64.5 | 64.2 | 61.5 | 160. |
| | 63 | 44.0 | 48.9 | 50.0 | 52.7 | 55.0 | 55.5 | 56.0 | 58.0 | 59.7 | 61.4 | 65.0 | 66.0 | 63.2 | 150. |
| | 80 | 45.4 | 49.1 | 52.2 | 53.4 | 54.7 | 55.7 | 56.7 | 58.9 | 60.7 | 62.6 | 65.7 | 66.1 | 62.4 | 140. |
| | 100 | 45.9 | 48.6 | 51.4 | 53.2 | 55.0 | 56.5 | 57.5 | 59.5 | 61.2 | 63.6 | 66.2 | 65.1 | 60.7 | 130. |
| | 125 | 46.5 | 50.3 | 52.2 | 54.0 | 56.0 | 57.2 | 58.7 | 60.9 | 61.9 | 63.4 | 65.2 | 63.9 | 58.3 | 120. |
| | 160 | 46.7 | 50.2 | 53.1 | 55.1 | 56.6 | 57.9 | 58.9 | 60.9 | 62.1 | 63.7 | 65.0 | 62.0 | 55.0 | 110. |
| | 200 | 47.3 | 50.8 | 53.2 | 54.8 | 56.8 | 58.1 | 58.8 | 60.8 | 61.7 | 62.9 | 63.9 | 59.4 | 53.0 | 100. |
| | 250 | 46.9 | 50.4 | 54.2 | 55.2 | 56.5 | 58.5 | 61.0 | 61.9 | 63.0 | 62.0 | 57.6 | 49.5 | 53.0 | 90. |
| | 315 | 46.9 | 50.5 | 52.8 | 54.6 | 56.9 | 58.4 | 58.9 | 59.9 | 61.8 | 62.6 | 60.8 | 55.8 | 47.8 | 80. |
| | 400 | 46.1 | 49.7 | 52.5 | 53.4 | 56.2 | 57.4 | 58.7 | 59.6 | 60.2 | 60.8 | 58.6 | 53.3 | 45.2 | 70. |
| | 500 | 45.6 | 49.1 | 51.7 | 53.4 | 55.5 | 56.2 | 57.5 | 58.9 | 59.7 | 58.5 | 56.2 | 50.7 | 42.3 | 60. |
| | 630 | 44.2 | 46.3 | 51.7 | 53.2 | 55.3 | 55.6 | 56.5 | 58.2 | 59.0 | 58.2 | 55.1 | 48.6 | 40.3 | 50. |
| | 800 | 42.4 | 46.6 | 50.2 | 51.4 | 53.3 | 54.6 | 55.5 | 57.1 | 57.4 | 56.0 | 52.0 | 45.7 | 36.9 | 40. |
| | 1000 | 40.4 | 44.9 | 48.5 | 50.8 | 52.7 | 53.8 | 54.0 | 56.1 | 56.3 | 54.3 | 50.6 | 44.2 | 35.2 | 30. |
| | 1250 | 38.0 | 43.2 | 46.7 | 49.3 | 51.8 | 53.3 | 54.5 | 54.6 | 55.2 | 52.3 | 48.6 | 43.1 | 34.5 | 20. |
| | 1600 | 35.4 | 40.7 | 44.2 | 47.2 | 50.5 | 51.6 | 52.7 | 53.2 | 53.5 | 50.7 | 46.1 | 39.5 | 30.7 | 10. |
| | 2000 | 31.3 | 38.5 | 42.0 | 45.1 | 48.6 | 49.2 | 50.6 | 50.8 | 51.2 | 47.9 | 42.5 | 37.0 | 25.9 | 5. |
| | 2500 | 25.9 | 32.8 | 37.9 | 41.4 | 45.1 | 46.2 | 47.6 | 46.8 | 46.6 | 43.8 | 38.0 | 31.5 | 19.1 | 0. |
| | 3150 | 19.3 | 26.9 | 32.3 | 37.4 | 40.8 | 41.7 | 43.8 | 42.2 | 43.1 | 38.0 | 31.6 | 23.1 | 8.1 | 0. |
| | 4000 | 9.1 | 18.3 | 25.2 | 29.3 | 34.6 | 35.1 | 37.4 | 34.1 | 34.3 | 28.4 | 20.1 | 9.7 | 0. | 0. |
| | 5000 | 2.4 | 13.4 | 19.8 | 24.3 | 28.3 | 30.2 | 30.5 | 29.4 | 29.6 | 21.4 | 14.7 | 0. | 0. | 0. |
| | 6300 | 1.2 | 10.3 | 15.3 | 19.5 | 20.8 | 21.9 | 19.1 | 16.8 | 7.9 | 0. | 0. | 0. | 0. | 0. |
| | 8000 | | | 3.2 | 5.3 | 7.2 | 1.2 | | | | | | | | |
| | 10000 | | | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | | | |
| | 1.000 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 1000 | 57.1 | 60.8 | 63.6 | 65.2 | 67.2 | 68.4 | 69.3 | 70.9 | 72.1 | 73.1 | 74.4 | 73.0 | 69.0 | 0.2 |
| | 1000 | 59.4 | 64.0 | 67.5 | 69.4 | 72.2 | 73.3 | 74.5 | 75.4 | 76.7 | 77.9 | 74.5 | 71.2 | 62.9 | 0.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **760R** ACUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

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

PROC. DATE - MONTH 9 DAY 7 HR. 13.5
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 120. 130. 140. 150.
 FREQ. (C.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.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.) (C.)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150.

| ROG. NO. | NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 120 | 73.4 | 82.4 | 80.4 | 81.2 | 82.3 | 83.0 | 83.5 | 84.4 | 84.4 | 86.2 | 87.4 | 89.6 | 92.4 |
| 125 | 72.1 | 76.6 | 78.1 | 79.9 | 81.5 | 83.2 | 84.9 | 86.7 | 88.1 | 89.7 | 91.4 | 93.2 | 95.0 |
| 160 | 72.4 | 75.2 | 78.2 | 78.2 | 79.3 | 80.2 | 81.7 | 82.7 | 83.7 | 84.7 | 85.7 | 86.7 | 88.7 |
| 200 | 75.3 | 75.5 | 77.3 | 79.1 | 79.2 | 80.3 | 81.2 | 83.0 | 84.5 | 86.3 | 87.9 | 89.3 | 91.5 |
| 250 | 74.3 | 77.1 | 78.6 | 78.4 | 79.7 | 81.3 | 82.4 | 85.9 | 86.8 | 89.4 | 91.4 | 93.2 | 95.0 |
| 315 | 75.4 | 79.7 | 80.7 | 80.7 | 83.6 | 85.7 | 87.0 | 89.4 | 91.8 | 93.3 | 95.7 | 98.2 | 100.3 |
| 400 | 77.4 | 79.5 | 81.7 | 81.3 | 83.1 | 84.0 | 85.6 | 87.8 | 90.5 | 92.2 | 94.2 | 96.6 | 104.2 |
| 500 | 77.8 | 79.0 | 80.8 | 81.6 | 83.4 | 85.7 | 88.6 | 91.8 | 96.6 | 102.3 | 105.8 | 104.8 | 104.8 |
| 630 | 78.7 | 80.9 | 81.6 | 82.7 | 84.8 | 87.3 | 89.4 | 92.5 | 97.2 | 101.7 | 104.8 | 103.9 | 138.6 |
| (99077. N/M2) | 80.1 | 81.9 | 82.7 | 83.9 | 85.3 | 86.9 | 88.0 | 89.7 | 94.2 | 97.2 | 101.9 | 104.1 | 102.9 |
| TAMB (29.3. DEG F) | 83.0 | 84.5 | 86.3 | 86.4 | 88.0 | 89.1 | 91.3 | 94.0 | 97.3 | 100.5 | 100.7 | 100.7 | 137.3 |
| TWET (29.3. DEG F) | 81.3 | 82.6 | 85.1 | 84.6 | 86.0 | 87.7 | 89.1 | 91.9 | 94.1 | 97.2 | 99.1 | 99.0 | 97.3 |
| (29.3. DEG F) | 81.1 | 83.2 | 83.7 | 85.5 | 86.0 | 87.7 | 89.1 | 90.7 | 94.2 | 96.5 | 97.7 | 96.6 | 94.9 |
| 2000 | 80.3 | 82.5 | 84.0 | 85.3 | 86.9 | 88.0 | 89.1 | 91.8 | 94.0 | 96.3 | 95.8 | 94.2 | 91.5 |
| HACT15.59 GM/M3 | 81.5 | 82.6 | 84.3 | 84.9 | 86.5 | 89.0 | 91.1 | 94.1 | 94.7 | 95.6 | 95.6 | 91.5 | 88.3 |
| (.01559 KG/M3) | 80.7 | 83.0 | 84.3 | 86.7 | 87.3 | 88.7 | 91.1 | 93.3 | 94.7 | 92.9 | 90.3 | 87.3 | 83.9 |
| FREQ. SHIFT | 4000 | 79.3 | 81.1 | 83.3 | 83.9 | 85.2 | 86.6 | 88.2 | 90.6 | 93.4 | 90.9 | 88.3 | 85.3 |
| JET G | 5000 | 78.6 | 80.7 | 82.5 | 84.3 | 84.8 | 86.4 | 87.1 | 90.0 | 91.7 | 91.6 | 89.8 | 87.4 |
| DIAMETER RATIO | 6300 | 77.7 | 80.0 | 81.6 | 83.1 | 85.1 | 87.0 | 88.4 | 89.8 | 91.8 | 90.7 | 89.3 | 87.7 |
| DF/DM 1.00 | 8000 | 76.7 | 78.8 | 79.8 | 82.6 | 84.9 | 86.5 | 88.2 | 89.1 | 90.6 | 90.2 | 88.6 | 87.5 |
| 10000 | 74.8 | 78.0 | 79.3 | 81.5 | 84.1 | 85.0 | 87.6 | 88.3 | 89.2 | 89.2 | 87.6 | 87.0 | 86.0 |
| 12500 | 72.5 | 75.7 | 77.8 | 79.3 | 82.4 | 83.2 | 85.9 | 86.2 | 88.1 | 87.5 | 86.1 | 85.5 | 87.2 |
| 16300 | 71.0 | 74.2 | 76.1 | 78.6 | 80.9 | 81.7 | 85.4 | 84.6 | 87.4 | 83.0 | 84.7 | 84.5 | 86.2 |
| 20000 | 68.4 | 70.9 | 73.5 | 75.4 | 79.4 | 89.3 | 83.2 | 81.0 | 85.5 | 82.0 | 79.6 | 81.1 | 80.3 |
| 25000 | 64.5 | 69.1 | 70.4 | 72.5 | 75.5 | 78.5 | 78.1 | 80.7 | 77.8 | 77.8 | 75.8 | 75.6 | 75.6 |
| 31500 | 63.0 | 68.0 | 70.6 | 71.6 | 74.4 | 83.4 | 78.1 | 74.9 | 76.4 | 74.2 | 73.2 | 74.9 | 72.1 |
| 40000 | 60.0 | 66.0 | 69.7 | 70.6 | 73.2 | 82.2 | 76.4 | 71.5 | 72.2 | 70.0 | 67.6 | 68.9 | 65.7 |
| 50000 | 53.9 | 58.6 | 63.2 | 63.3 | 63.7 | 74.8 | 71.3 | 63.3 | 64.5 | 61.0 | 59.8 | 58.9 | 56.6 |
| 63000 | 45.6 | 51.1 | 57.8 | 54.8 | 55.7 | 65.6 | 66.7 | 54.1 | 54.8 | 53.2 | 51.4 | 47.5 | 47.4 |
| 80000 | 45.5 | 47.3 | 55.0 | 50.6 | 50.3 | 60.4 | 65.1 | 45.2 | 46.8 | 49.6 | 46.2 | 40.3 | 41.7 |
| OVERALL MEASURED | 92.1 | 94.2 | 95.5 | 96.5 | 96.2 | 109.4 | 109.8 | 102.7 | 105.2 | 107.6 | 110.9 | 112.9 | 112.4 |
| OVERALL CALCULATED | 97.7 | 102.8 | 109.2 | 109.0 | 110.7 | 121.8 | 113.1 | 115.3 | 117.6 | 119.3 | 119.9 | 120.8 | 119.9 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 76/R ACOUSTIC RANGE MODEL-154cm² (23.9in²)
 SIZE 12.2m(40ft.) ARC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 9 DAY 7 HR. 17.6
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANS) 0. G.) (0. G.) (0. G.) (0. G.)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PHL |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50 | 76.4 | 78.9 | 80.4 | 80.2 | 81.6 | 83.2 | 86.1 | 87.7 | 88.7 | 93.2 | 99.7 | 102.1 | 102.7 | 147.7 |
| 60 | 77.2 | 81.5 | 80.3 | 82.6 | 85.4 | 85.4 | 86.4 | 88.8 | 91.3 | 95.1 | 101.5 | 104.2 | 105.0 | 149.8 |
| 80 | 79.6 | 81.3 | 83.6 | 83.1 | 84.9 | 85.8 | 87.4 | 89.6 | 92.3 | 97.6 | 103.6 | 106.0 | 105.8 | 151.3 |
| 100 | 79.6 | 80.9 | 82.6 | 83.4 | 85.3 | 86.9 | 87.5 | 90.4 | 93.6 | 98.4 | 104.2 | 107.6 | 106.6 | 152.6 |
| 125 | 80.7 | 82.7 | 83.5 | 84.5 | 86.6 | 87.7 | 89.1 | 91.3 | 94.7 | 99.1 | 103.5 | 106.7 | 105.7 | 151.9 |
| 160 | 82.0 | 83.7 | 84.5 | 85.8 | 87.1 | 88.7 | 89.9 | 92.5 | 95.0 | 99.1 | 103.8 | 106.0 | 104.7 | 151.8 |
| 200 | 83.8 | 84.8 | 86.3 | 86.6 | 88.2 | 89.8 | 91.0 | 93.1 | 95.6 | 99.2 | 102.4 | 102.5 | 102.6 | 150.6 |
| 250 | 83.6 | 84.4 | 86.9 | 86.5 | 87.8 | 89.7 | 90.6 | 93.7 | 95.9 | 99.0 | 101.0 | 100.9 | 99.2 | 149.7 |
| 315 | 83.0 | 85.0 | 85.5 | 87.3 | 88.4 | 100.5 | 90.9 | 92.6 | 95.0 | 98.4 | 99.6 | 98.5 | 96.8 | 149.1 |
| 400 | 82.8 | 84.3 | 85.8 | 87.1 | 88.7 | 99.8 | 91.0 | 93.6 | 95.8 | 98.2 | 97.6 | 96.0 | 93.3 | 148.4 |
| 500 | 83.4 | 84.7 | 86.2 | 86.7 | 88.3 | 99.5 | 90.8 | 93.0 | 96.0 | 96.6 | 95.3 | 93.4 | 90.7 | 147.5 |
| 630 | 82.7 | 85.0 | 86.2 | 86.5 | 88.6 | 99.2 | 90.6 | 93.0 | 95.2 | 96.6 | 94.8 | 92.2 | 89.2 | 147.2 |
| 800 | 81.5 | 83.0 | 85.3 | 85.3 | 87.2 | 98.5 | 90.2 | 92.6 | 94.6 | 95.4 | 92.8 | 90.3 | 87.3 | 146.4 |
| 1000 | 80.6 | 82.7 | 84.5 | 86.2 | 86.8 | 98.4 | 89.1 | 92.0 | 93.7 | 93.6 | 91.7 | 89.4 | 87.7 | 145.3 |
| 1250 | 79.5 | 82.1 | 83.6 | 85.1 | 87.2 | 99.1 | 90.5 | 91.9 | 93.9 | 92.7 | 91.4 | 89.8 | 90.6 | 145.2 |
| 1600 | 78.9 | 81.0 | 82.1 | 84.8 | 87.2 | 98.8 | 90.4 | 91.3 | 92.8 | 92.4 | 90.9 | 89.8 | 90.3 | 145.8 |
| 2000 | 77.3 | 80.4 | 81.7 | 84.0 | 86.5 | 97.4 | 90.0 | 90.7 | 92.7 | 91.6 | 90.0 | 89.4 | 90.4 | 145.0 |
| 2500 | 75.3 | 78.5 | 80.6 | 82.1 | 85.1 | 96.0 | 88.6 | 89.0 | 90.7 | 90.3 | 88.9 | 88.3 | 90.0 | 143.7 |
| 3150 | 74.3 | 77.6 | 79.5 | 81.9 | 84.2 | 95.1 | 88.7 | 88.0 | 90.7 | 89.0 | 88.1 | 87.9 | 89.6 | 143.3 |
| 4000 | 72.4 | 75.0 | 77.5 | 79.4 | 83.5 | 93.3 | 87.2 | 85.0 | 87.6 | 86.1 | 83.7 | 85.2 | 84.3 | 141.3 |
| 5000 | 70.2 | 74.4 | 75.8 | 77.9 | 80.6 | 90.8 | 83.8 | 83.5 | 86.0 | 83.1 | 83.0 | 81.1 | 81.0 | 139.0 |
| 6300 | 69.9 | 74.9 | 77.6 | 78.5 | 81.3 | 90.3 | 85.0 | 81.8 | 83.3 | 81.1 | 80.1 | 81.8 | 79.1 | 139.0 |
| 8000 | 69.3 | 75.2 | 79.0 | 80.1 | 82.4 | 91.5 | 85.7 | 80.8 | 81.5 | 79.3 | 76.9 | 78.1 | 75.0 | 140.4 |
| 10000 | 66.2 | 70.9 | 75.5 | 75.7 | 76.0 | 87.1 | 83.6 | 75.6 | 75.8 | 73.9 | 72.1 | 71.2 | 68.9 | 137.5 |
| 12500 | 65.6 | 67.9 | 74.6 | 71.6 | 72.4 | 82.4 | 83.4 | 70.9 | 71.6 | 70.0 | 68.2 | 64.3 | 64.2 | 136.3 |
| 16000 | 68.6 | 70.4 | 78.1 | 73.9 | 73.4 | 83.5 | 88.2 | 68.3 | 69.9 | 72.9 | 69.3 | 63.4 | 64.8 | 142.4 |
| OVERALL CALCULATED | 93.8 | 95.7 | 97.3 | 98.2 | 100.0 | 111.3 | 103.0 | 104.6 | 107.1 | 109.4 | 112.5 | 114.4 | 113.9 | 161.9 |
| P 38 | 102.4 | 105.1 | 107.0 | 108.6 | 110.8 | 121.7 | 114.4 | 114.6 | 117.0 | 117.1 | 117.4 | 117.9 | 117.2 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **761R** ACUSTIC RANGE **45.7m(150ft.)** ARC
 SIZE **FULL-.33m²(513in²)**

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | 70 PERCENT REL. HUM. DAY |
|--|-------|---|------|------|------|------|--------------------------|
| | | 40. | 50. | 60. | 70. | 80. | |
| | 50 | 48.2 | 52.3 | 54.9 | 55.4 | 57.2 | 100. |
| | 63 | 49.0 | 54.9 | 54.7 | 57.7 | 61.0 | 110. |
| | 80 | 50.9 | 54.6 | 57.9 | 58.2 | 60.5 | 120. |
| | 100 | 51.2 | 54.1 | 56.9 | 58.5 | 60.7 | 130. |
| | 125 | 52.1 | 55.8 | 57.7 | 59.5 | 62.0 | 140. |
| | 160 | 53.2 | 56.7 | 58.6 | 60.6 | 62.4 | 150. |
| | 200 | 54.8 | 57.6 | 60.2 | 61.3 | 63.3 | 160. |
| | 250 | 54.4 | 56.9 | 60.7 | 61.0 | 62.8 | 170. |
| | 315 | 53.4 | 57.3 | 59.0 | 61.6 | 63.2 | 180. |
| | 400 | 52.5 | 56.2 | 59.0 | 61.1 | 63.2 | 190. |
| | 500 | 52.9 | 56.1 | 59.0 | 60.4 | 62.5 | 200. |
| | 630 | 51.5 | 55.8 | 58.5 | 59.7 | 62.3 | 210. |
| | 800 | 49.4 | 53.1 | 56.9 | 58.4 | 60.3 | 220. |
| | 1000 | 47.4 | 51.9 | 55.3 | 58.1 | 59.2 | 230. |
| | 1250 | 45.2 | 50.2 | 53.4 | 56.1 | 58.3 | 240. |
| | 1600 | 42.4 | 47.5 | 50.5 | 54.5 | 57.5 | 250. |
| | 2000 | 38.5 | 45.0 | 48.4 | 52.1 | 55.4 | 260. |
| | 2500 | 33.1 | 40.3 | 44.9 | 47.9 | 51.8 | 270. |
| | 3150 | 26.8 | 34.9 | 39.8 | 44.2 | 47.5 | 280. |
| | 4000 | 16.8 | 25.5 | 32.0 | 36.2 | 41.6 | 290. |
| | 5000 | 9.9 | 21.1 | 26.8 | 31.5 | 35.0 | 300. |
| | 6300 | | 10.1 | 18.5 | 23.0 | 27.7 | 310. |
| | 8000 | | 4.5 | 10.4 | 15.3 | 25.2 | 320. |
| | 10000 | | | | | | 330. |
| | 12500 | | | | | | 340. |
| | 16000 | | | | | | 350. |

OVERALL CALCULATED P 1
 63.6 67.2 69.8 71.5 73.6 85.1 76.2 78.0 79.8 81.5 83.6 83.4 79.2
 66.8 71.1 74.3 76.6 79.1 91.0 22.3 83.3 84.7 85.0 84.5 82.4 76.3

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **76/R** ACOUSTIC RANGE **731.5m(2400ft.)** SIDELINE **FULL-.33m²(513in²)** SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INCLT IN DEGREES (AND RADIANES)

| RDG. NO. | MO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | |
|--|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 30 | | 65.6 | 78.4 | 76.9 | 77.7 | 78.5 | 79.2 | 79.0 | 80.0 | 80.0 | 80.9 | 83.2 | 87.4 | 85.9 |
| 100 | | 70.1 | 73.9 | 75.4 | 77.2 | 78.0 | 80.6 | 79.7 | 82.2 | 82.1 | 81.9 | 85.7 | 86.9 | 89.1 |
| 125 | | 72.1 | 72.2 | 75.9 | 77.2 | 76.3 | 81.4 | 77.0 | 82.2 | 84.2 | 85.7 | 89.2 | 90.2 | 91.4 |
| 200 | CELL41 | 71.8 | 72.5 | 73.3 | 75.1 | 76.2 | 77.3 | 80.6 | 83.0 | 83.0 | 86.6 | 89.1 | 94.0 | 95.3 |
| 250 | NC58 | 71.8 | 73.8 | 75.6 | 75.4 | 76.7 | 82.5 | 81.9 | 83.8 | 83.8 | 88.2 | 93.4 | 95.3 | 96.1 |
| 315 | C41 ANECH CH | 72.7 | 75.7 | 75.7 | 77.5 | 79.6 | 80.2 | 81.1 | 83.5 | 85.7 | 89.3 | 94.2 | 97.1 | 97.4 |
| 400 | DATE C6-16-76 | 74.4 | 76.0 | 78.5 | 78.5 | 79.6 | 81.2 | 81.8 | 84.3 | 87.5 | 91.0 | 95.5 | 97.2 | 97.5 |
| 500 | CONF7 REPEAT | 75.3 | 76.0 | 77.8 | 78.3 | 79.9 | 81.5 | 82.4 | 85.1 | 87.0 | 89.7 | 91.5 | 95.8 | 96.8 |
| 630 | X0765C | 77.4 | 77.4 | 78.4 | 79.2 | 81.3 | 82.6 | 83.8 | 86.2 | 88.4 | 91.7 | 95.4 | 95.6 | 93.9 |
| 800 | 29.3 HG | 76.4 | 78.7 | 79.7 | 80.7 | 83.4 | 85.0 | 86.5 | 89.4 | 92.2 | 94.9 | 93.9 | 91.9 | 91.9 |
| 1000 | (99059. N/M2) | 77.7 | 78.7 | 80.0 | 80.6 | 82.1 | 83.5 | 85.1 | 87.5 | 89.0 | 92.3 | 93.8 | 91.4 | 89.5 |
| 1250 | 67. DEG F | 77.0 | 79.1 | 80.8 | 82.2 | 84.1 | 85.0 | 87.6 | 89.6 | 89.6 | 91.6 | 93.1 | 90.8 | 87.8 |
| 1600 | (293. DEG K) | 77.1 | 79.4 | 80.9 | 81.5 | 84.7 | 85.1 | 87.0 | 89.7 | 91.5 | 89.1 | 91.5 | 89.1 | 87.2 |
| 2000 | 65. DEG F | 77.2 | 78.2 | 80.5 | 82.6 | 83.5 | 85.3 | 87.5 | 89.2 | 91.1 | 90.5 | 87.4 | 85.2 | 85.2 |
| 2500 | (292. DEG K) | 77.0 | 78.5 | 80.3 | 80.6 | 82.5 | 83.5 | 86.9 | 86.9 | 89.7 | 89.7 | 85.3 | 83.3 | 83.3 |
| 3150 | HA115.32 GW/M3 | 76.5 | 78.8 | 81.1 | 81.3 | 82.9 | 83.3 | 84.4 | 86.6 | 89.1 | 89.4 | 86.8 | 84.8 | 82.5 |
| 4000 | (.01532 KG/M3) | 76.0 | 77.6 | 80.1 | 81.5 | 82.6 | 84.0 | 86.9 | 87.6 | 88.2 | 86.2 | 88.2 | 81.3 | 81.3 |
| 5000 | JET D | 74.6 | 76.9 | 79.2 | 80.1 | 81.6 | 82.2 | 83.6 | 85.2 | 87.2 | 87.3 | 86.0 | 82.9 | 82.2 |
| 6300 | DIAMETER RATIO | 73.4 | 76.3 | 78.0 | 79.3 | 81.4 | 83.0 | 84.1 | 85.6 | 87.3 | 86.2 | 80.1 | 83.0 | 82.0 |
| 8000 | DF/DM 1.00 | 72.5 | 74.8 | 77.1 | 79.1 | 81.2 | 82.3 | 84.4 | 85.1 | 86.6 | 86.7 | 85.4 | 83.0 | 82.5 |
| 10000 | | 70.6 | 74.7 | 76.0 | 78.0 | 80.6 | 81.0 | 82.8 | 84.3 | 86.3 | 85.2 | 84.6 | 82.7 | 82.3 |
| 12500 | | 68.2 | 72.0 | 74.1 | 76.5 | 78.6 | 79.5 | 81.6 | 82.7 | 83.6 | 83.7 | 83.4 | 81.5 | 81.2 |
| 16000 | | 66.5 | 70.2 | 72.6 | 75.6 | 77.6 | 78.0 | 80.9 | 80.6 | 82.6 | 81.6 | 81.7 | 80.0 | 79.5 |
| 20000 | | 63.4 | 66.7 | 70.0 | 72.1 | 75.9 | 75.8 | 78.9 | 77.5 | 80.0 | 78.0 | 77.4 | 75.1 | 76.0 |
| 25000 | | 59.9 | 64.6 | 66.7 | 69.8 | 72.0 | 72.3 | 73.5 | 74.4 | 77.5 | 74.1 | 74.4 | 70.3 | 71.6 |
| 31500 | | 57.3 | 62.3 | 65.6 | 68.1 | 70.7 | 70.4 | 72.3 | 71.7 | 73.4 | 70.4 | 69.7 | 68.9 | 68.2 |
| 40000 | | 51.5 | 57.0 | 61.8 | 64.3 | 65.7 | 65.7 | 68.2 | 65.1 | 68.0 | 64.2 | 62.1 | 62.3 | 62.3 |
| 50000 | | 45.2 | 50.7 | 55.5 | 58.6 | 58.8 | 59.6 | 62.4 | 58.5 | 60.5 | 57.9 | 56.6 | 53.0 | 52.9 |
| 63000 | | 39.1 | 42.6 | 48.1 | 52.6 | 52.4 | 51.9 | 49.7 | 49.7 | 53.6 | 50.5 | 48.9 | 44.3 | 44.9 |
| 80000 | | 35.3 | 38.9 | 44.5 | 50.1 | 49.6 | 49.5 | 49.6 | 42.5 | 43.6 | 47.6 | 44.8 | 39.9 | 40.7 |
| OVERALL MEASURED | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | |
| 53.3 90.4 92.0 92.9 94.5 95.7 96.9 98.9 100.9 102.9 105.2 105.5 105.3
100.3 105.3 104.8 105.4 107.0 108.0 109.1 111.4 113.3 114.5 115.2 113.7 113.1 | | | | | | | | | | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 765R ACOUSTIC RANGE 12.2m(40ft.) ARC

SIZE MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM., DAY - JENOTS)

| NO EGA | PROC. DATE - MONTH 9 DAY 7 HR. 17.6 | | | | | | | | | | | | | |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM., DAY - JENOTS) | | | | | | | | | | | | | |
| RDG. NO. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | PWL | |
| 50 | (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) | 142.9 |
| 63 | 73.6 | 75.7 | 77.4 | 77.2 | 78.6 | 80.4 | 82.3 | 83.7 | 85.7 | 90.0 | 95.2 | 97.1 | 97.9 | 144.3 |
| 80 | 74.5 | 77.5 | 79.3 | 81.4 | 82.0 | 83.0 | 83.7 | 85.3 | 87.5 | 91.1 | 96.0 | 99.0 | 99.3 | 145.0 |
| 100 | 77.1 | 77.9 | 79.6 | 80.2 | 81.3 | 83.4 | 84.3 | 86.9 | 89.1 | 93.9 | 97.7 | 99.1 | 98.6 | 144.3 |
| 125 | 77.7 | 79.2 | 80.2 | 81.0 | 83.1 | 84.5 | 85.6 | 88.0 | 90.2 | 93.6 | 97.3 | 97.4 | 95.7 | 144.0 |
| 160 | 78.2 | 80.5 | 81.5 | 82.5 | 84.1 | 85.2 | 86.9 | 88.8 | 91.3 | 94.1 | 96.8 | 95.7 | 93.7 | 143.2 |
| 200 | 79.5 | 80.6 | 81.8 | 82.6 | 84.0 | 85.3 | 87.0 | 89.4 | 90.8 | 94.2 | 95.6 | 93.3 | 91.3 | 142.9 |
| 250 | 78.9 | 80.9 | 82.7 | 83.7 | 84.1 | 85.9 | 86.8 | 89.5 | 91.4 | 93.5 | 95.0 | 92.6 | 89.7 | 142.4 |
| 315 | 79.0 | 81.3 | 81.8 | 83.3 | 84.9 | 86.5 | 86.9 | 88.8 | 91.5 | 93.4 | 93.3 | 91.0 | 89.0 | 141.9 |
| 400 | 79.0 | 80.1 | 82.3 | 82.4 | 84.5 | 85.3 | 87.2 | 89.4 | 91.1 | 92.9 | 92.4 | 89.3 | 87.1 | 141.0 |
| 500 | 78.9 | 80.7 | 82.2 | 82.5 | 84.3 | 85.2 | 86.3 | 88.7 | 90.7 | 91.6 | 90.8 | 87.2 | 85.2 | 141.0 |
| 9AR 29.3 HG | 630 | 78.4 | 80.7 | 83.0 | 83.3 | 84.6 | 85.2 | 86.3 | 88.5 | 91.0 | 91.3 | 90.8 | 86.7 | 141.0 |
| (99009. N/M2) | 800 | 78.0 | 79.5 | 82.1 | 82.1 | 83.4 | 84.5 | 85.9 | 88.8 | 89.6 | 90.2 | 88.5 | 85.0 | 140.0 |
| TAMB 67 DEG F | 1000 | 76.6 | 78.9 | 81.2 | 82.0 | 83.6 | 84.2 | 85.6 | 88.2 | 89.2 | 89.3 | 88.0 | 84.9 | 139.6 |
| (293. DEG K) | 1250 | 75.5 | 78.3 | 80.1 | 81.4 | 83.5 | 85.1 | 86.2 | 87.6 | 89.4 | 88.2 | 85.1 | 84.1 | 139.5 |
| TWET 65 DEG F | 1600 | 74.7 | 77.0 | 79.3 | 81.3 | 83.4 | 84.5 | 86.7 | 87.3 | 88.8 | 86.9 | 85.3 | 84.5 | 139.9 |
| (292. DEG K) | 2000 | 73.1 | 77.2 | 78.5 | 80.5 | 83.0 | 83.4 | 85.3 | 86.7 | 88.7 | 87.6 | 85.2 | 84.4 | 137.7 |
| HACT15.32 GM/H3 | 2500 | 71.0 | 74.3 | 76.9 | 79.3 | 81.4 | 82.3 | 84.4 | 85.5 | 86.6 | 86.5 | 84.5 | 84.0 | 137.0 |
| (.07532 KG/H3) | 3150 | 69.6 | 73.6 | 76.0 | 78.9 | 81.0 | 81.3 | 84.2 | 84.0 | 86.0 | 85.0 | 83.4 | 82.8 | 135.1 |
| FREQ. SHIFT | 4000 | 67.4 | 70.7 | 74.1 | 76.2 | 80.0 | 79.8 | 83.0 | 81.5 | 84.1 | 82.1 | 81.5 | 79.2 | 133.1 |
| JET | 5000 | 65.2 | 69.9 | 72.0 | 75.1 | 77.4 | 77.6 | 78.9 | 79.7 | 82.8 | 79.4 | 79.7 | 75.6 | 132.5 |
| DIAMETER RATIO | 6300 | 64.2 | 69.2 | 72.6 | 75.1 | 77.6 | 77.3 | 79.3 | 78.6 | 80.3 | 77.4 | 76.6 | 75.8 | 130.9 |
| DF/DM 4.63 | 8000 | 60.8 | 66.3 | 71.0 | 73.6 | 75.0 | 75.3 | 77.5 | 75.3 | 75.1 | 73.4 | 71.4 | 71.5 | 127.9 |
| | 10000 | 57.5 | 63.0 | 67.8 | 70.9 | 71.1 | 71.9 | 72.7 | 70.6 | 72.3 | 70.2 | 68.9 | 65.3 | 126.6 |
| | 12500 | 55.9 | 59.4 | 64.9 | 69.2 | 69.2 | 68.7 | 66.4 | 67.4 | 67.3 | 65.7 | 61.1 | 61.7 | 132.5 |
| | 16000 | 56.4 | 62.0 | 67.7 | 73.2 | 72.7 | 72.6 | 72.7 | 65.6 | 66.7 | 70.7 | 67.9 | 63.9 | 155.2 |
| OVERALL CALCULATED | 89.9 | 91.9 | 93.6 | 94.5 | 96.3 | 97.4 | 98.8 | 100.7 | 102.6 | 104.5 | 106.6 | 106.8 | 106.3 | |
| PMDE | 98.0 | 101.1 | 103.2 | 105.1 | 107.1 | 107.8 | 109.8 | 110.8 | 112.6 | 112.8 | 113.1 | 111.4 | 110.6 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **765R** ACUSTIC RANGE FULL-.33m²(513in²)
 SIZE 45.7m(150ft.) ARC

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RAD/SEC) | NFK
(0. RAD/SEC) | NFD
(785. RAD/SEC) | AIRFLOW RATIO
WF/WN 4.63 | VEHICLE
CELL41 | CONFIG
NC58 | LOC
C41 ANECH CH | DATE
06-16-76 | RUN
CONF/REPEATH | TAPE
X07650 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | |
|--------------------|----------------------------------|----------------------|----------------------|------------------------|-----------------------------|-------------------|----------------|---------------------|------------------|---------------------|----------------|-------------------------|---|------|-----|-----|-----|-----|-----|------|------|------|------|------|
| | | | | | | | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. |
| 50 | 45.5 | 49.1 | 51.9 | 52.4 | 54.2 | 56.2 | 57.9 | 58.9 | 60.1 | 63.4 | 67.0 | 66.7 | 64.0 | 160. | | | | | | | | | | |
| 63 | 46.2 | 50.9 | 52.0 | 54.5 | 57.0 | 57.7 | 58.5 | 60.5 | 62.0 | 64.4 | 67.8 | 68.5 | 65.2 | 160. | | | | | | | | | | |
| 80 | 47.9 | 51.1 | 54.7 | 55.4 | 57.0 | 58.7 | 59.2 | 61.2 | 63.7 | 66.1 | 69.0 | 68.4 | 65.1 | 160. | | | | | | | | | | |
| 100 | 48.7 | 51.1 | 53.9 | 55.2 | 57.2 | 59.0 | 59.7 | 62.0 | 63.4 | 67.1 | 69.2 | 68.3 | 64.2 | 160. | | | | | | | | | | |
| 125 | 49.1 | 52.3 | 54.4 | 56.0 | 58.5 | 60.0 | 61.0 | 64.4 | 66.6 | 68.7 | 66.5 | 61.1 | 58.8 | 160. | | | | | | | | | | |
| 160 | 49.5 | 53.4 | 55.6 | 57.4 | 59.4 | 60.6 | 62.1 | 63.6 | 65.3 | 67.0 | 68.0 | 64.5 | 58.8 | 160. | | | | | | | | | | |
| 200 | 50.6 | 53.3 | 55.7 | 57.3 | 59.1 | 60.6 | 62.1 | 64.1 | 64.7 | 66.9 | 66.7 | 61.9 | 56.0 | 160. | | | | | | | | | | |
| 250 | 49.7 | 53.4 | 56.4 | 57.2 | 59.0 | 61.0 | 61.8 | 64.0 | 65.2 | 66.0 | 65.7 | 60.9 | 53.8 | 160. | | | | | | | | | | |
| 315 | 49.4 | 53.5 | 55.3 | 57.6 | 59.7 | 61.4 | 61.7 | 63.1 | 65.0 | 65.6 | 63.8 | 53.8 | 52.5 | 160. | | | | | | | | | | |
| 400 | 49.1 | 52.0 | 55.5 | 56.4 | 58.9 | 59.9 | 61.7 | 63.4 | 64.2 | 64.8 | 62.4 | 56.5 | 49.7 | 160. | | | | | | | | | | |
| 500 | 48.4 | 52.1 | 55.0 | 56.1 | 58.5 | 59.5 | 60.5 | 62.4 | 63.5 | 63.0 | 60.2 | 53.7 | 46.8 | 160. | | | | | | | | | | |
| 630 | 47.2 | 51.6 | 55.2 | 56.4 | 58.5 | 59.1 | 60.0 | 61.7 | 63.2 | 62.2 | 59.6 | 52.3 | 44.8 | 160. | | | | | | | | | | |
| 800 | 45.9 | 49.6 | 53.7 | 54.6 | 56.5 | 57.8 | 59.0 | 61.4 | 61.2 | 60.3 | 56.2 | 49.5 | 41.9 | 160. | | | | | | | | | | |
| 1000 | 43.4 | 48.1 | 52.0 | 53.8 | 56.0 | 56.8 | 58.0 | 60.1 | 60.0 | 58.5 | 54.8 | 48.0 | 40.7 | 160. | | | | | | | | | | |
| 1250 | 41.0 | 46.4 | 49.9 | 52.3 | 55.0 | 56.8 | 57.8 | 58.6 | 59.2 | 56.3 | 53.6 | 46.4 | 38.0 | 160. | | | | | | | | | | |
| 1600 | 38.2 | 43.5 | 47.7 | 51.0 | 53.7 | 55.1 | 57.0 | 57.0 | 57.2 | 55.4 | 51.1 | 44.0 | 34.7 | 160. | | | | | | | | | | |
| 2000 | 34.3 | 41.7 | 45.2 | 48.6 | 51.9 | 52.5 | 54.1 | 54.8 | 55.4 | 52.2 | 48.3 | 40.9 | 30.2 | 160. | | | | | | | | | | |
| 2500 | 28.9 | 36.5 | 41.1 | 45.2 | 48.1 | 49.2 | 51.1 | 51.3 | 50.9 | 48.3 | 44.0 | 35.7 | 23.3 | 160. | | | | | | | | | | |
| 3150 | 22.3 | 30.9 | 36.3 | 41.2 | 44.3 | 44.9 | 47.5 | 46.2 | 46.3 | 42.3 | 37.6 | 27.8 | 11.8 | 160. | | | | | | | | | | |
| 4000 | 11.8 | 21.3 | 28.5 | 33.0 | 38.1 | 38.3 | 41.1 | 38.3 | 38.5 | 32.6 | 25.8 | 13.1 | 3.5 | 160. | | | | | | | | | | |
| 5000 | 4.9 | 16.6 | 23.0 | 28.8 | 32.5 | 33.2 | 34.0 | 33.4 | 33.8 | 26.1 | 19.4 | 2.6 | 0.0 | 160. | | | | | | | | | | |
| 6300 | 4.4 | 13.5 | 19.5 | 24.3 | 25.6 | 23.0 | 21.3 | 21.6 | 21.6 | 12.6 | 2.6 | 0.0 | 0.0 | 160. | | | | | | | | | | |
| 8000 | | | 3.9 | 7.8 | 8.7 | 10.3 | 5.6 | 2.8 | | | | | | 160. | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | 160. | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | 160. | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | 160. | | | | | | | | | | |
| OVERALL CALCULATED | 59.8 | 63.5 | 66.3 | 67.7 | 69.9 | 71.3 | 72.3 | 74.1 | 75.3 | 76.6 | 77.5 | 75.7 | 71.7 | 160. | | | | | | | | | | |
| PH. | 62.6 | 67.0 | 70.6 | 72.7 | 75.4 | 74.6 | 78.1 | 79.1 | 80.0 | 79.9 | 78.4 | 73.5 | 67.2 | 160. | | | | | | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 765R TEST POINT ACUSTIC RANGE SIZE FULL-.33m²(513in²)
 731.5m(2400ft.) SIDELINE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

4C. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250. 260. 270. 280. 290. 300. 315. 330. 345. 360. 375. 390. 405. 420. 435. 450. 465. 480. 495. 510. 525. 540. 555. 570. 585. 600. 615. 630. 645. 660. 675. 690. 705. 720. 735. 750. 765. 780. 795. 810. 825. 840. 855. 870. 885. 900. 915. 930. 945. 960. 975. 990. 1005. 1020. 1035. 1050. 1065. 1080. 1095. 1110. 1125. 1140. 1155. 1170. 1185. 1200. 1215. 1230. 1245. 1260. 1275. 1290. 1305. 1320. 1335. 1350. 1365. 1380. 1395. 1410. 1425. 1440. 1455. 1470. 1485. 1500. 1515. 1530. 1545. 1560. 1575. 1590. 1605. 1620. 1635. 1650. 1665. 1680. 1695. 1710. 1725. 1740. 1755. 1770. 1785. 1800. 1815. 1830. 1845. 1860. 1875. 1890. 1905. 1920. 1935. 1950. 1965. 1980. 1995. 2010. 2025. 2040. 2055. 2070. 2085. 2100. 2115. 2130. 2145. 2160. 2175. 2190. 2205. 2220. 2235. 2250. 2265. 2280. 2295. 2310. 2325. 2340. 2355. 2370. 2385. 2400. 2415. 2430. 2445. 2460. 2475. 2490. 2505. 2520. 2535. 2550. 2565. 2580. 2595. 2610. 2625. 2640. 2655. 2670. 2685. 2700. 2715. 2730. 2745. 2760. 2775. 2790. 2805. 2820. 2835. 2850. 2865. 2880. 2895. 2910. 2925. 2940. 2955. 2970. 2985. 3000. 3015. 3030. 3045. 3060. 3075. 3090. 3105. 3120. 3135. 3150. 3165. 3180. 3195. 3210. 3225. 3240. 3255. 3270. 3285. 3300. 3315. 3330. 3345. 3360. 3375. 3390. 3405. 3420. 3435. 3450. 3465. 3480. 3495. 3510. 3525. 3540. 3555. 3570. 3585. 3600. 3615. 3630. 3645. 3660. 3675. 3690. 3705. 3720. 3735. 3750. 3765. 3780. 3795. 3810. 3825. 3840. 3855. 3870. 3885. 3900. 3915. 3930. 3945. 3960. 3975. 3990. 4005. 4020. 4035. 4050. 4065. 4080. 4095. 4110. 4125. 4140. 4155. 4170. 4185. 4200. 4215. 4230. 4245. 4260. 4275. 4290. 4305. 4320. 4335. 4350. 4365. 4380. 4395. 4410. 4425. 4440. 4455. 4470. 4485. 4500. 4515. 4530. 4545. 4560. 4575. 4590. 4605. 4620. 4635. 4650. 4665. 4680. 4695. 4710. 4725. 4740. 4755. 4770. 4785. 4800. 4815. 4830. 4845. 4860. 4875. 4890. 4905. 4920. 4935. 4950. 4965. 4980. 4995. 5010. 5025. 5040. 5055. 5070. 5085. 5100. 5115. 5130. 5145. 5160. 5175. 5190. 5205. 5220. 5235. 5250. 5265. 5280. 5295. 5310. 5325. 5340. 5355. 5370. 5385. 5400. 5415. 5430. 5445. 5460. 5475. 5490. 5505. 5520. 5535. 5550. 5565. 5580. 5595. 5610. 5625. 5640. 5655. 5670. 5685. 5700. 5715. 5730. 5745. 5760. 5775. 5790. 5805. 5820. 5835. 5850. 5865. 5880. 5895. 5910. 5925. 5940. 5955. 5970. 5985. 6000. 6015. 6030. 6045. 6060. 6075. 6090. 6105. 6120. 6135. 6150. 6165. 6180. 6195. 6210. 6225. 6240. 6255. 6270. 6285. 6300. 6315. 6330. 6345. 6360. 6375. 6390. 6405. 6420. 6435. 6450. 6465. 6480. 6495. 6510. 6525. 6540. 6555. 6570. 6585. 6600. 6615. 6630. 6645. 6660. 6675. 6690. 6705. 6720. 6735. 6750. 6765. 6780. 6795. 6810. 6825. 6840. 6855. 6870. 6885. 6900. 6915. 6930. 6945. 6960. 6975. 6990. 7005. 7020. 7035. 7050. 7065. 7080. 7095. 7110. 7125. 7140. 7155. 7170. 7185. 7200. 7215. 7230. 7245. 7260. 7275. 7290. 7305. 7320. 7335. 7350. 7365. 7380. 7395. 7410. 7425. 7440. 7455. 7470. 7485. 7500. 7515. 7530. 7545. 7560. 7575. 7590. 7605. 7620. 7635. 7650. 7665. 7680. 7695. 7710. 7725. 7740. 7755. 7770. 7785. 7800. 7815. 7830. 7845. 7860. 7875. 7890. 7905. 7920. 7935. 7950. 7965. 7980. 7995. 8010. 8025. 8040. 8055. 8070. 8085. 8100. 8115. 8130. 8145. 8160. 8175. 8190. 8205. 8220. 8235. 8250. 8265. 8280. 8295. 8310. 8325. 8340. 8355. 8370. 8385. 8400. 8415. 8430. 8445. 8460. 8475. 8490. 8505. 8520. 8535. 8550. 8565. 8580. 8595. 8610. 8625. 8640. 8655. 8670. 8685. 8700. 8715. 8730. 8745. 8760. 8775. 8790. 8805. 8820. 8835. 8850. 8865. 8880. 8895. 8910. 8925. 8940. 8955. 8970. 8985. 9000. 9015. 9030. 9045. 9060. 9075. 9090. 9105. 9120. 9135. 9150. 9165. 9180. 9195. 9210. 9225. 9240. 9255. 9270. 9285. 9300. 9315. 9330. 9345. 9360. 9375. 9390. 9405. 9420. 9435. 9450. 9465. 9480. 9495. 9510. 9525. 9540. 9555. 9570. 9585. 9600. 9615. 9630. 9645. 9660. 9675. 9690. 9705. 9720. 9735. 9750. 9765. 9780. 9795. 9810. 9825. 9840. 9855. 9870. 9885. 9900. 9915. 9930. 9945. 9960. 9975. 9990. 10005. 10020. 10035. 10050. 10065. 10080. 10095. 10110. 10125. 10140. 10155. 10170. 10185. 10200. 10215. 10230. 10245. 10260. 10275. 10290. 10305. 10320. 10335. 10350. 10365. 10380. 10395. 10410. 10425. 10440. 10455. 10470. 10485. 10500. 10515. 10530. 10545. 10560. 10575. 10590. 10605. 10620. 10635. 10650. 10665. 10680. 10695. 10710. 10725. 10740. 10755. 10770. 10785. 10800. 10815. 10830. 10845. 10860. 10875. 10890. 10905. 10920. 10935. 10950. 10965. 10980. 11000. 11020. 11040. 11060. 11080. 11100. 11120. 11140. 11160. 11180. 11200. 11220. 11240. 11260. 11280. 11300. 11320. 11340. 11360. 11380. 11400. 11420. 11440. 11460. 11480. 11500. 11520. 11540. 11560. 11580. 11600. 11620. 11640. 11660. 11680. 11700. 11720. 11740. 11760. 11780. 11800. 11820. 11840. 11860. 11880. 11900. 11920. 11940. 11960. 11980. 12000. 12020. 12040. 12060. 12080. 12100. 12120. 12140. 12160. 12180. 12200. 12220. 12240. 12260. 12280. 12300. 12320. 12340. 12360. 12380. 12400. 12420. 12440. 12460. 12480. 12500. 12520. 12540. 12560. 12580. 12600. 12620. 12640. 12660. 12680. 12700. 12720. 12740. 12760. 12780. 12800. 12820. 12840. 12860. 12880. 12900. 12920. 12940. 12960. 12980. 13000. 13020. 13040. 13060. 13080. 13100. 13120. 13140. 13160. 13180. 13200. 13220. 13240. 13260. 13280. 13300. 13320. 13340. 13360. 13380. 13400. 13420. 13440. 13460. 13480. 13500. 13520. 13540. 13560. 13580. 13600. 13620. 13640. 13660. 13680. 13700. 13720. 13740. 13760. 13780. 13800. 13820. 13840. 13860. 13880. 13900. 13920. 13940. 13960. 13980. 14000. 14020. 14040. 14060. 14080. 14100. 14120. 14140. 14160. 14180. 14200. 14220. 14240. 14260. 14280. 14300. 14320. 14340. 14360. 14380. 14400. 14420. 14440. 14460. 14480. 14500. 14520. 14540. 14560. 14580. 14600. 14620. 14640. 14660. 14680. 14700. 14720. 14740. 14760. 14780. 14800. 14820. 14840. 14860. 14880. 14900. 14920. 14940. 14960. 14980. 15000. 15020. 15040. 15060. 15080. 15100. 15120. 15140. 15160. 15180. 15200. 15220. 15240. 15260. 15280. 15300. 15320. 15340. 15360. 15380. 15400. 15420. 15440. 15460. 15480. 15500. 15520. 15540. 15560. 15580. 15600. 15620. 15640. 15660. 15680. 15700. 15720. 15740. 15760. 15780. 15800. 15820. 15840. 15860. 15880. 15900. 15920. 15940. 15960. 15980. 16000. 16020. 16040. 16060. 16080. 16100. 16120. 16140. 16160. 16180. 16200. 16220. 16240. 16260. 16280. 16300. 16320. 16340. 16360. 16380. 16400. 16420. 16440. 16460. 16480. 16500. 16520. 16540. 16560. 16580. 16600. 16620. 16640. 16660. 16680. 16700. 16720. 16740. 16760. 16780. 16800. 16820. 16840. 16860. 16880. 16900. 16920. 16940. 16960. 16980. 17000. 17020. 17040. 17060. 17080. 17100. 17120. 17140. 17160. 17180. 17200. 17220. 17240. 17260. 17280. 17300. 17320. 17340. 17360. 17380. 17400. 17420. 17440. 17460. 17480. 17500. 17520. 17540. 17560. 17580. 17600. 17620. 17640. 17660. 17680. 17700. 17720. 17740. 17760. 17780. 17800. 17820. 17840. 17860. 17880. 17900. 17920. 17940. 17960. 17980. 18000. 18020. 18040. 18060. 18080. 18100. 18120. 18140. 18160. 18180. 18200. 18220. 18240. 18260. 18280. 18300. 18320. 18340. 18360. 18380. 18400. 18420. 18440. 18460. 18480. 18500. 18520. 18540. 18560. 18580. 18600. 18620. 18640. 18660. 18680. 18700. 18720. 18740. 18760. 18780. 18800. 18820. 18840. 18860. 18880. 18900. 18920. 18940. 18960. 18980. 19000. 19020. 19040. 19060. 19080. 19100. 19120. 19140. 19160. 19180. 19200. 19220. 19240. 19260. 19280. 19300. 19320. 19340. 19360. 19380. 19400. 19420. 19440. 19460. 19480. 19500. 19520. 19540. 19560. 19580. 19600. 19620. 19640. 19660. 19680. 19700. 19720. 19740. 19760. 19780. 19800. 19820. 19840. 19860. 19880. 19900. 19920. 19940. 19960. 19980. 20000. 20020. 20040. 20060. 20080. 20100. 20120. 20140. 20160. 20180. 20200. 20220. 20240. 20260. 20280. 20300. 20320. 20340. 20360. 20380. 20400. 20420. 20440. 20460. 20480. 20500. 20520. 20540. 20560. 20580. 20600. 20620. 20640. 20660. 20680. 20700. 20720. 20740. 20760. 20780. 20800. 20820. 20840. 20860. 20880. 20900. 20920. 20940. 20960. 20980. 21000. 21020. 21040. 21060. 21080. 21100. 21120. 21140. 21160. 21180. 21200. 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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
 DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL | |
|--------------------|---------------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|
| | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | | |
| FREQ. (0.70) | 81.7 | 83.2 | 84.5 | 85.6 | 86.7 | 87.7 | 88.3 | 89.2 | 90.5 | 92.2 | 96.2 | 98.3 | 98.3 | 102.9 | 105.4 | 105.7 | 150.5 |
| RDG. NO. 0. | 80.5 | 83.3 | 83.3 | 85.6 | 87.7 | 88.3 | 89.2 | 90.5 | 92.2 | 96.2 | 98.3 | 98.3 | 102.9 | 105.4 | 105.7 | 107.8 | 152.6 |
| RADIAL 150. FT. | 82.0 | 83.8 | 86.1 | 85.8 | 87.7 | 88.3 | 89.2 | 90.5 | 92.2 | 96.2 | 98.3 | 98.3 | 102.9 | 105.4 | 105.7 | 107.8 | 153.9 |
| (46. M) | 82.9 | 83.9 | 85.6 | 86.4 | 88.0 | 89.6 | 90.8 | 92.1 | 94.5 | 98.5 | 102.7 | 102.7 | 107.7 | 109.6 | 108.1 | 108.1 | 154.7 |
| VEHICLE CELL41 | 83.7 | 85.0 | 86.2 | 87.5 | 89.4 | 90.2 | 92.1 | 94.5 | 98.5 | 102.7 | 102.7 | 107.7 | 109.6 | 108.1 | 108.1 | 108.1 | 154.8 |
| CONF16 NC58 | 85.3 | 86.7 | 87.5 | 89.0 | 90.6 | 91.7 | 93.4 | 96.3 | 99.5 | 103.1 | 106.3 | 106.3 | 106.5 | 107.5 | 107.5 | 107.5 | 154.1 |
| LOC C41 ANECH CH | 87.0 | 87.8 | 89.1 | 89.6 | 91.0 | 92.3 | 94.2 | 96.9 | 99.8 | 103.2 | 105.6 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 153.2 |
| DATE 06-16-76 | 86.6 | 87.4 | 89.7 | 89.7 | 91.6 | 92.9 | 94.1 | 97.5 | 100.2 | 103.5 | 106.0 | 103.9 | 103.4 | 103.4 | 103.4 | 103.4 | 152.3 |
| RUN CONF7REPEATH | 86.7 | 88.3 | 88.8 | 90.3 | 91.9 | 93.8 | 94.4 | 96.8 | 100.3 | 102.9 | 103.1 | 101.5 | 102.0 | 102.0 | 102.0 | 102.0 | 151.8 |
| TAPE X07660 | 86.5 | 87.8 | 89.6 | 90.4 | 92.0 | 93.1 | 95.5 | 97.4 | 100.1 | 102.2 | 101.9 | 101.5 | 100.1 | 100.1 | 100.1 | 100.1 | 151.0 |
| BAR 29.3 HG | 86.4 | 88.2 | 89.7 | 90.5 | 91.8 | 92.8 | 94.6 | 97.5 | 100.7 | 101.1 | 100.3 | 101.2 | 99.5 | 99.5 | 99.5 | 99.5 | 150.5 |
| (99111. N/M2) | 86.7 | 87.7 | 89.2 | 90.5 | 92.3 | 92.8 | 94.4 | 97.6 | 99.6 | 100.2 | 97.9 | 95.3 | 97.0 | 97.0 | 97.0 | 97.0 | 149.3 |
| TAMB 69. DEG F | 85.5 | 86.8 | 88.6 | 89.3 | 90.9 | 92.3 | 94.1 | 97.2 | 99.2 | 98.8 | 97.2 | 97.4 | 96.9 | 96.9 | 96.9 | 96.9 | 148.8 |
| (294. DEG K) | 84.0 | 85.8 | 87.6 | 89.1 | 91.2 | 92.5 | 95.0 | 96.4 | 99.1 | 98.2 | 96.2 | 97.6 | 97.8 | 97.8 | 97.8 | 97.8 | 148.6 |
| TWET 67. DEG F | 83.4 | 84.5 | 86.3 | 88.6 | 90.9 | 92.5 | 94.7 | 96.6 | 98.6 | 98.6 | 97.9 | 95.6 | 97.0 | 97.0 | 97.0 | 97.0 | 148.6 |
| (292. DEG K) | 81.3 | 84.7 | 85.7 | 88.0 | 91.0 | 91.4 | 94.0 | 96.0 | 98.0 | 98.0 | 96.4 | 94.5 | 97.2 | 97.2 | 97.2 | 97.2 | 147.5 |
| HACT15.96 GM/M3 | 79.2 | 82.5 | 84.9 | 86.3 | 89.1 | 89.5 | 93.6 | 94.0 | 95.9 | 94.0 | 93.2 | 96.3 | 96.7 | 96.7 | 96.7 | 96.7 | 146.6 |
| (.01596 KG/M3) | 78.1 | 81.8 | 83.0 | 85.7 | 88.5 | 89.8 | 92.7 | 92.5 | 95.7 | 93.2 | 92.1 | 95.6 | 95.3 | 95.3 | 95.3 | 95.3 | 145.5 |
| FREQ. SHIFT | 75.7 | 79.4 | 81.5 | 83.4 | 87.7 | 88.0 | 91.2 | 89.8 | 92.6 | 90.5 | 89.4 | 92.2 | 93.1 | 93.1 | 93.1 | 93.1 | 143.5 |
| JET 7 | 73.7 | 78.2 | 79.7 | 81.8 | 84.8 | 85.6 | 87.8 | 87.8 | 88.0 | 88.1 | 88.0 | 87.6 | 90.4 | 90.4 | 90.4 | 90.4 | 141.4 |
| DIAMETER RATIO | 72.9 | 78.2 | 80.8 | 82.3 | 84.5 | 85.0 | 87.9 | 86.5 | 88.5 | 88.8 | 85.5 | 84.3 | 88.3 | 88.3 | 88.3 | 88.3 | 140.7 |
| DF/DM 4.62 | 71.2 | 77.2 | 81.7 | 83.3 | 83.9 | 83.9 | 87.0 | 87.0 | 86.0 | 86.0 | 84.2 | 81.3 | 84.1 | 85.0 | 85.0 | 85.0 | 139.9 |
| 10000 68.6 | 75.9 | 81.5 | 81.5 | 81.3 | 83.2 | 83.2 | 84.8 | 87.1 | 83.5 | 82.5 | 80.1 | 77.8 | 78.2 | 78.6 | 78.6 | 78.6 | 139.5 |
| 12500 66.8 | 73.3 | 80.7 | 79.8 | 80.6 | 80.6 | 73.5 | 85.6 | 83.3 | 81.0 | 78.2 | 75.6 | 73.2 | 74.1 | 74.1 | 74.1 | 74.1 | 139.5 |
| 16000 68.8 | 72.3 | 83.7 | 75.0 | 76.3 | 76.3 | 72.9 | 87.3 | 78.2 | 78.8 | 80.7 | 78.2 | 72.8 | 75.0 | 75.0 | 75.0 | 75.0 | 142.9 |
| OVERALL CALCULATED | 97.4 | 99.0 | 100.6 | 101.7 | 103.6 | 94.9 | 106.7 | 108.8 | 111.6 | 113.6 | 115.9 | 117.7 | 117.0 | 117.0 | 117.0 | 117.0 | 164.5 |
| PND8 106.3 | 108.9 | 110.7 | 112.3 | 114.7 | 105.8 | 118.2 | 119.2 | 121.8 | 121.4 | 121.4 | 123.3 | 123.3 | 123.2 | 123.2 | 123.2 | 123.2 | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 766R ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | |
|--------------------|---|------|------|------|------|-------|---|------|------|------|------|------|------|------|
| | 40 | 50 | 60 | 70 | 80 | | 90 | 100 | 110 | 120 | 130 | 140 | 150 | |
| 50 | 51.0 | 55.1 | 57.6 | 58.2 | 60.2 | 50 | 51.7 | 63.9 | 65.7 | 66.6 | 69.6 | 74.8 | 74.9 | 71.8 |
| 63 | 52.2 | 57.9 | 57.7 | 60.7 | 63.2 | 60 | 54.0 | 64.7 | 66.7 | 68.7 | 71.7 | 76.3 | 77.2 | 73.7 |
| 80 | 53.7 | 57.1 | 60.4 | 60.9 | 63.2 | 70 | 54.2 | 65.2 | 67.4 | 70.4 | 74.1 | 78.0 | 78.4 | 74.4 |
| 100 | 54.4 | 57.1 | 59.9 | 61.5 | 63.5 | 80 | 55.2 | 66.2 | 69.0 | 71.2 | 75.9 | 79.2 | 78.8 | 73.7 |
| 125 | 55.1 | 58.0 | 60.4 | 62.5 | 64.7 | 90 | 55.7 | 67.5 | 69.5 | 72.7 | 75.9 | 78.7 | 78.8 | 73.8 |
| 160 | 56.2 | 59.7 | 61.6 | 63.9 | 66.1 | 100 | 57.1 | 68.6 | 71.1 | 73.6 | 76.0 | 77.5 | 77.3 | 72.5 |
| 200 | 58.1 | 60.6 | 63.0 | 64.3 | 66.1 | 110 | 57.6 | 69.3 | 71.6 | 73.8 | 75.9 | 76.7 | 73.9 | 70.0 |
| 250 | 57.4 | 59.9 | 63.4 | 64.2 | 66.5 | 120 | 58.0 | 69.0 | 72.0 | 73.9 | 76.0 | 74.7 | 72.1 | 67.5 |
| 315 | 57.2 | 60.5 | 62.3 | 64.6 | 66.7 | 130 | 58.7 | 69.2 | 71.1 | 73.8 | 75.1 | 73.5 | 71.3 | 65.5 |
| 400 | 56.6 | 59.7 | 62.7 | 64.4 | 66.4 | 140 | 57.7 | 69.9 | 71.4 | 73.2 | 74.1 | 71.9 | 68.3 | 62.7 |
| 500 | 55.9 | 59.6 | 62.5 | 64.1 | 66.0 | 150 | 57.5 | 68.7 | 71.1 | 73.5 | 72.5 | 69.7 | 67.7 | 61.1 |
| 630 | 55.5 | 58.6 | 61.5 | 63.7 | 65.5 | 160 | 56.6 | 68.0 | 70.7 | 72.7 | 71.9 | 68.8 | 65.3 | 58.8 |
| 800 | 53.4 | 56.9 | 60.2 | 61.9 | 64.0 | 170 | 56.1 | 67.5 | 70.2 | 71.2 | 70.3 | 65.7 | 62.7 | 55.6 |
| 1000 | 51.9 | 55.9 | 58.8 | 61.6 | 63.2 | 180 | 55.3 | 66.5 | 69.1 | 70.0 | 68.0 | 64.1 | 60.5 | 53.4 |
| 1250 | 49.5 | 53.9 | 57.4 | 60.1 | 62.3 | 190 | 54.8 | 66.5 | 67.3 | 68.9 | 66.3 | 61.6 | 58.9 | 51.7 |
| 1600 | 46.9 | 51.0 | 54.7 | 58.2 | 61.2 | 200 | 53.1 | 65.0 | 66.2 | 67.0 | 64.4 | 59.1 | 55.8 | 48.2 |
| 2000 | 43.0 | 49.2 | 52.4 | 56.1 | 59.9 | 210 | 50.5 | 62.9 | 64.1 | 64.7 | 60.9 | 55.7 | 52.9 | 43.9 |
| 2500 | 37.6 | 44.3 | 49.1 | 52.2 | 55.8 | 220 | 47.5 | 60.3 | 59.8 | 60.1 | 55.8 | 51.0 | 47.7 | 36.1 |
| 3150 | 30.5 | 39.1 | 43.3 | 47.9 | 51.7 | 230 | 43.4 | 56.0 | 54.7 | 56.1 | 50.5 | 44.6 | 40.1 | 24.3 |
| 4000 | 20.1 | 30.0 | 35.9 | 40.2 | 45.8 | 240 | 36.6 | 49.3 | 46.6 | 47.0 | 41.1 | 33.8 | 26.1 | 6.6 |
| 5000 | 13.4 | 24.8 | 30.7 | 35.5 | 39.9 | 250 | 31.1 | 42.9 | 41.6 | 42.0 | 34.8 | 27.7 | 15.5 | |
| 6300 | | 13.4 | 21.7 | 26.7 | 30.9 | 260 | 22.0 | 34.3 | 31.0 | 29.7 | 20.7 | 10.2 | | |
| 8000 | | | 7.2 | 12.6 | 16.8 | 270 | 7.6 | 20.5 | 14.3 | 11.4 | 1.9 | | | |
| 10000 | | | | | | 280 | | | | | | | | |
| 12500 | | | | | | 290 | | | | | | | | |
| 16000 | | | | | | 300 | | | | | | | | |
| OVERALL CALCULATED | 67.0 | 70.3 | 72.9 | 74.8 | 77.0 | 68.4 | 79.8 | 82.0 | 84.0 | 85.6 | 86.9 | 86.4 | 81.9 | |
| PM03 | 70.7 | 74.7 | 77.9 | 80.2 | 83.1 | 74.2 | 86.3 | 87.8 | 89.4 | 89.4 | 88.4 | 86.7 | 80.7 | |

VEHICLE CELL41
 CONFIG NC58
 LOC C41 ANECH CH
 DATE 06-16-76
 RUN CONF7REPEATH
 TAPE X07660
 FAN TIP SPEED
 FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 766R ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

| RDG. NO. | NO. EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | D. | D. | D. | C. | PWL |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
| | | | | | | | | | | | | | | | | | | | |
| 100 | 63 | 73.4 | 82.4 | 50.4 | 81.5 | 82.5 | 82.9 | 83.3 | 84.0 | 84.7 | 86.2 | 90.2 | 91.9 | 92.2 | | | | | 127.6 |
| 125 | 80 | 72.6 | 77.9 | 78.9 | 81.2 | 83.2 | 84.1 | 84.0 | 85.4 | 85.6 | 86.2 | 91.9 | 94.6 | 94.1 | | | | | 129.2 |
| 160 | 80 | 73.1 | 75.2 | 78.4 | 78.5 | 80.0 | 80.4 | 80.3 | 82.5 | 84.4 | 86.2 | 94.4 | 95.9 | 95.2 | | | | | 129.5 |
| 200 | 80 | 75.5 | 75.5 | 77.5 | 79.3 | 80.2 | 80.3 | 81.9 | 84.6 | 86.8 | 88.4 | 94.3 | 98.3 | 98.5 | | | | | 131.9 |
| 250 | 80 | 74.8 | 77.3 | 79.1 | 79.1 | 80.5 | 81.6 | 84.0 | 85.6 | 86.1 | 92.2 | 97.9 | 99.8 | 100.3 | | | | | 133.5 |
| 315 | 80 | 76.2 | 79.2 | 81.5 | 81.5 | 83.8 | 84.4 | 85.3 | 87.5 | 89.9 | 94.0 | 98.7 | 101.9 | 101.9 | | | | | 135.6 |
| 400 | 80 | 77.4 | 79.2 | 81.5 | 82.3 | 83.3 | 84.2 | 85.3 | 87.5 | 91.2 | 95.5 | 100.7 | 102.4 | 101.7 | | | | | 136.4 |
| 500 | 80 | 78.3 | 79.3 | 81.0 | 82.3 | 83.9 | 85.5 | 86.4 | 88.3 | 92.3 | 96.9 | 101.1 | 101.8 | 100.5 | | | | | 136.1 |
| 630 | 80 | 79.4 | 80.9 | 81.6 | 83.4 | 85.3 | 86.1 | 88.0 | 89.7 | 93.1 | 97.0 | 99.4 | 100.3 | 98.1 | | | | | 135.4 |
| 800 | 80 | 79.5 | 81.9 | 82.9 | 84.2 | 86.0 | 87.2 | 88.5 | 90.4 | 94.2 | 98.0 | 99.4 | 98.9 | 96.4 | | | | | 135.4 |
| 1000 | 80 | 80.5 | 82.7 | 84.0 | 85.0 | 86.6 | 88.2 | 89.1 | 92.0 | 94.5 | 97.6 | 99.0 | 96.9 | 95.0 | | | | | 135.1 |
| 1250 | 80 | 80.8 | 82.8 | 84.8 | 85.1 | 86.5 | 88.3 | 89.2 | 92.1 | 94.6 | 97.6 | 97.9 | 97.0 | 94.1 | | | | | 134.8 |
| 1600 | 80 | 80.9 | 82.9 | 83.9 | 85.5 | 87.1 | 88.7 | 89.6 | 91.7 | 94.7 | 97.8 | 97.2 | 96.4 | 94.2 | | | | | 134.7 |
| 2000 | 80 | 80.7 | 82.7 | 84.7 | 85.5 | 86.8 | 88.5 | 89.6 | 92.0 | 94.7 | 96.6 | 96.5 | 95.4 | 93.2 | | | | | 134.1 |
| 2500 | 80 | 80.8 | 82.6 | 84.6 | 85.1 | 86.7 | 88.3 | 89.5 | 91.9 | 94.6 | 95.2 | 94.9 | 94.0 | 92.6 | | | | | 133.4 |
| 3150 | 80 | 80.5 | 82.8 | 84.3 | 85.6 | 87.7 | 88.5 | 89.9 | 92.3 | 94.8 | 95.2 | 94.3 | 93.5 | 92.0 | | | | | 133.5 |
| 4000 | 80 | 79.5 | 81.8 | 83.6 | 84.4 | 86.5 | 87.8 | 89.0 | 92.9 | 93.8 | 94.4 | 92.1 | 91.5 | 89.6 | | | | | 132.6 |
| 5000 | 80 | 79.1 | 81.4 | 83.2 | 84.5 | 86.1 | 87.9 | 89.1 | 92.5 | 93.3 | 93.3 | 92.0 | 90.4 | 89.4 | | | | | 132.2 |
| 6300 | 80 | 78.4 | 81.0 | 82.8 | 84.1 | 86.6 | 88.3 | 89.9 | 90.6 | 93.5 | 92.9 | 91.1 | 90.2 | 90.8 | | | | | 132.1 |
| 8000 | 80 | 77.7 | 79.2 | 81.1 | 83.6 | 85.9 | 87.8 | 89.7 | 90.9 | 92.8 | 92.7 | 90.4 | 89.5 | 90.3 | | | | | 131.6 |
| 10000 | 80 | 75.6 | 79.2 | 80.0 | 82.8 | 85.6 | 86.0 | 88.8 | 90.0 | 92.5 | 91.7 | 89.3 | 89.0 | 90.2 | | | | | 131.5 |
| 12500 | 80 | 73.0 | 76.7 | 78.6 | 81.3 | 83.9 | 85.2 | 87.4 | 88.2 | 90.1 | 90.0 | 87.7 | 87.7 | 89.5 | | | | | 130.2 |
| 16000 | 80 | 71.2 | 74.7 | 77.4 | 80.4 | 82.9 | 83.2 | 86.9 | 85.9 | 89.2 | 88.2 | 86.3 | 87.0 | 88.2 | | | | | 129.5 |
| 20000 | 80 | 68.7 | 71.9 | 74.5 | 76.7 | 81.2 | 81.0 | 84.7 | 83.2 | 86.0 | 84.8 | 82.7 | 83.1 | 84.3 | | | | | 127.8 |
| 25000 | 80 | 65.9 | 69.6 | 71.5 | 73.8 | 76.6 | 77.5 | 79.3 | 79.9 | 82.8 | 80.9 | 80.4 | 80.7 | 80.7 | | | | | 125.5 |
| 31500 | 80 | 63.1 | 67.8 | 70.2 | 72.4 | 75.2 | 75.4 | 78.9 | 77.5 | 79.5 | 77.5 | 75.5 | 77.4 | 76.9 | | | | | 125.3 |
| 40000 | 80 | 59.3 | 64.8 | 68.1 | 69.7 | 71.3 | 72.0 | 75.8 | 74.1 | 74.0 | 72.9 | 71.0 | 71.5 | 70.8 | | | | | 124.5 |
| 50000 | 80 | 54.0 | 57.8 | 62.1 | 62.2 | 62.4 | 63.5 | 67.7 | 65.4 | 67.1 | 65.8 | 63.9 | 62.3 | 62.2 | | | | | 120.9 |
| 63000 | 80 | 48.5 | 50.8 | 55.7 | 55.0 | 54.6 | 54.5 | 51.1 | 56.8 | 58.2 | 56.7 | 57.6 | 53.7 | 56.0 | | | | | 119.6 |
| 80000 | 80 | 45.4 | 47.8 | 54.0 | 50.5 | 50.0 | 50.6 | 60.0 | 51.7 | 55.0 | 57.5 | 54.7 | 49.8 | 50.6 | | | | | 126.3 |
| OVERALL MEASURED | | 51.9 | 94.4 | 95.8 | 97.1 | 98.9 | 100.2 | 101.6 | 103.7 | 106.2 | 108.3 | 119.9 | 110.8 | 110.0 | | | | | 147.3 |
| OVERALL CALCULATED | | 104.6 | 106.9 | 108.4 | 109.7 | 111.6 | 112.7 | 114.1 | 116.6 | 118.8 | 120.0 | 120.3 | 120.2 | 119.0 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 770R ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²) SIZE

FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO. DEG | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL |
|--------------------|---------|-------|---------------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|---|-------|------|--|--|-----|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | | | |
| 50 | 76.6 | 79.7 | 80.9 | 81.0 | 82.3 | 83.7 | 85.8 | 87.5 | 89.9 | 94.0 | 99.7 | 101.6 | 102.2 | 147.2 | | | | |
| 63 | 78.0 | 81.5 | 81.0 | 83.3 | 85.7 | 86.3 | 87.2 | 89.3 | 91.8 | 95.8 | 100.5 | 103.7 | 103.8 | 143.9 | | | | |
| 80 | 79.3 | 81.0 | 83.3 | 84.1 | 85.2 | 86.0 | 87.2 | 90.1 | 93.0 | 97.4 | 102.6 | 104.3 | 103.5 | 149.7 | | | | |
| 100 | 80.1 | 81.1 | 82.9 | 84.2 | 85.8 | 87.4 | 88.3 | 90.7 | 93.9 | 98.7 | 101.9 | 103.6 | 102.4 | 149.4 | | | | |
| 125 | 81.2 | 82.7 | 83.5 | 85.3 | 87.1 | 88.0 | 89.9 | 91.5 | 95.0 | 98.3 | 101.3 | 102.2 | 100.0 | 148.7 | | | | |
| 160 | 81.7 | 83.7 | 84.3 | 86.0 | 87.9 | 89.0 | 90.4 | 92.3 | 96.0 | 99.3 | 101.3 | 100.7 | 98.2 | 148.7 | | | | |
| 200 | 82.3 | 84.6 | 85.8 | 86.9 | 88.5 | 90.1 | 91.0 | 93.9 | 96.3 | 99.7 | 100.9 | 98.8 | 96.8 | 148.4 | | | | |
| 250 | 82.6 | 84.7 | 86.7 | 87.0 | 88.3 | 90.2 | 91.1 | 94.0 | 96.4 | 99.5 | 99.7 | 98.9 | 95.9 | 148.1 | | | | |
| 315 | 82.7 | 84.8 | 85.8 | 87.3 | 88.9 | 90.5 | 91.4 | 93.6 | 96.5 | 99.6 | 99.1 | 98.2 | 96.0 | 148.0 | | | | |
| 400 | 82.5 | 84.6 | 86.6 | 87.4 | 88.7 | 90.3 | 91.5 | 93.9 | 96.6 | 98.4 | 97.3 | 95.1 | 147.5 | | | | | |
| RUN CONF7REPEATH | 500 | 82.7 | 84.5 | 86.5 | 87.0 | 88.6 | 90.2 | 91.3 | 93.7 | 96.5 | 97.1 | 96.8 | 94.5 | 146.7 | | | | |
| TAPE X07700 | 630 | 82.4 | 84.7 | 86.2 | 87.5 | 89.6 | 90.5 | 91.8 | 94.3 | 96.7 | 97.1 | 96.3 | 94.0 | 146.8 | | | | |
| BAR 29.3 HG | 800 | 81.5 | 83.8 | 85.6 | 86.3 | 88.4 | 89.8 | 90.9 | 94.8 | 95.8 | 96.4 | 94.1 | 93.5 | 145.9 | | | | |
| (99077. N/M2) | 1000 | 81.1 | 83.4 | 85.2 | 86.5 | 88.1 | 89.9 | 91.1 | 94.5 | 95.5 | 95.3 | 94.0 | 92.4 | 145.5 | | | | |
| TAMB 67. DEG F | 1250 | 80.5 | 83.1 | 84.9 | 86.1 | 88.7 | 90.3 | 92.0 | 92.6 | 95.9 | 95.0 | 93.2 | 92.3 | 145.4 | | | | |
| (293. DEG K) | 1600 | 79.9 | 81.5 | 83.3 | 85.8 | 88.2 | 90.0 | 91.9 | 93.1 | 94.9 | 92.6 | 91.8 | 92.8 | 145.2 | | | | |
| TWET 65. DEG K) | 2000 | 78.1 | 81.7 | 83.5 | 85.2 | 88.1 | 88.4 | 91.3 | 92.5 | 95.2 | 94.1 | 91.8 | 91.4 | 144.8 | | | | |
| (291. DEG K) | 2500 | 75.8 | 79.5 | 81.6 | 84.1 | 86.7 | 88.0 | 90.2 | 91.0 | 92.9 | 92.8 | 90.4 | 90.5 | 143.5 | | | | |
| HACT15.07 GM/M3 | 3150 | 74.6 | 78.1 | 80.8 | 83.7 | 86.3 | 86.6 | 90.3 | 90.3 | 92.5 | 91.7 | 89.6 | 90.4 | 143.2 | | | | |
| (.01507 KG/M3) | 4000 | 72.7 | 76.0 | 78.6 | 80.7 | 85.2 | 85.1 | 88.7 | 87.3 | 90.1 | 88.8 | 86.7 | 87.2 | 141.1 | | | | |
| FREQ. SHIFT | 5000 | 71.2 | 75.0 | 76.8 | 79.2 | 81.9 | 82.9 | 84.6 | 85.3 | 88.1 | 86.2 | 85.8 | 83.4 | 138.8 | | | | |
| JET 7 | 6300 | 70.0 | 74.8 | 77.1 | 79.4 | 82.1 | 82.4 | 85.8 | 84.4 | 86.4 | 82.4 | 84.4 | 83.9 | 138.6 | | | | |
| DIAMETER RATIO | 8000 | 68.6 | 74.1 | 77.4 | 78.9 | 80.5 | 81.3 | 85.0 | 83.4 | 83.9 | 82.2 | 80.3 | 80.7 | 137.8 | | | | |
| DF/DM 4.63 | 10000 | 66.3 | 70.1 | 74.4 | 74.5 | 74.7 | 75.8 | 80.0 | 77.7 | 79.4 | 78.1 | 76.2 | 74.5 | 134.2 | | | | |
| OVERALL CALCULATED | 12500 | 65.2 | 67.5 | 72.5 | 71.8 | 71.3 | 71.3 | 77.8 | 73.8 | 75.0 | 75.5 | 74.4 | 70.5 | 132.9 | | | | |
| | 16000 | 68.5 | 70.9 | 77.1 | 73.6 | 73.1 | 73.7 | 80.6 | 76.1 | 80.6 | 77.8 | 72.9 | 73.8 | 139.6 | | | | |
| | PND8 | 102.6 | 105.7 | 107.6 | 109.6 | 112.0 | 113.0 | 115.4 | 116.2 | 118.6 | 118.9 | 118.0 | 118.1 | 118.2 | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 770R ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | ANGLES FROM INLET IN DEGREES (AND RADIAN)S | | | | | | | | | | | | |
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (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) | (2.96) | (3.14) |
| SIDELINE 2400. FT.
(731.52 M) | 48.5 | 53.1 | 55.4 | 56.2 | 57.9 | 59.4 | 61.4 | 62.7 | 64.5 | 66.2 | 69.2 | 72.3 | 73.2 |
| NFA (0. RAD/SEC) | 63 | 49.7 | 54.9 | 55.5 | 58.5 | 61.2 | 62.0 | 62.7 | 64.5 | 66.2 | 69.2 | 72.3 | 73.2 |
| NFA (1. RPM) | 80 | 50.9 | 54.3 | 57.7 | 59.2 | 60.7 | 61.7 | 62.7 | 64.5 | 66.2 | 69.2 | 72.3 | 73.2 |
| NFD (7500. RPM) | 100 | 51.7 | 54.3 | 57.2 | 59.2 | 61.2 | 63.0 | 63.7 | 65.7 | 68.2 | 71.9 | 73.5 | 72.8 |
| AIRFLOW RATIO | 125 | 52.6 | 55.8 | 57.7 | 60.2 | 62.5 | 63.5 | 65.2 | 66.5 | 69.2 | 71.9 | 72.7 | 71.3 |
| WF/WM 4.63 | 160 | 53.0 | 56.7 | 58.8 | 60.9 | 63.1 | 64.4 | 65.0 | 67.1 | 70.1 | 72.7 | 72.5 | 69.5 |
| VEHICLE CELL41 | 200 | 53.3 | 57.3 | 59.7 | 61.6 | 63.6 | 65.3 | 66.1 | 68.6 | 70.2 | 72.4 | 71.9 | 67.4 |
| CONFIG NC58 | 250 | 53.4 | 57.2 | 60.4 | 61.5 | 63.3 | 65.3 | 66.0 | 68.5 | 70.2 | 72.0 | 70.5 | 67.1 |
| LOC C41 ANECH CH | 315 | 53.2 | 57.0 | 59.3 | 61.6 | 63.7 | 65.4 | 66.2 | 67.9 | 70.0 | 71.9 | 69.5 | 66.0 |
| DATE 06-16-76 | 400 | 52.6 | 56.5 | 59.7 | 61.4 | 63.2 | 64.9 | 65.9 | 67.9 | 69.7 | 70.3 | 68.4 | 64.5 |
| RUN CONF7REPEATH | 500 | 52.1 | 55.9 | 59.2 | 60.6 | 62.7 | 64.5 | 65.5 | 67.4 | 69.2 | 68.5 | 66.2 | 62.4 |
| TAPE X07700 | 630 | 51.2 | 55.6 | 58.5 | 60.7 | 63.3 | 64.3 | 65.5 | 67.4 | 69.0 | 67.9 | 65.1 | 61.1 |
| FAN TIP SPEED | 800 | 49.4 | 53.9 | 57.2 | 58.9 | 61.5 | 63.1 | 64.0 | 67.4 | 67.4 | 66.5 | 62.0 | 58.0 |
| FT/SEC | 1000 | 47.9 | 52.6 | 56.0 | 58.3 | 60.5 | 62.5 | 63.5 | 66.3 | 66.3 | 64.5 | 60.8 | 55.5 |
| OVERALL CALCULATED | 1250 | 46.0 | 51.2 | 54.7 | 57.1 | 60.3 | 62.1 | 63.5 | 63.6 | 65.7 | 63.1 | 58.6 | 53.6 |
| PNDB | 1600 | 43.4 | 48.0 | 51.7 | 55.5 | 58.5 | 60.6 | 62.2 | 62.7 | 63.5 | 61.4 | 56.1 | 50.5 |
| | 2000 | 39.3 | 46.2 | 49.2 | 53.3 | 56.9 | 57.5 | 60.1 | 60.6 | 62.0 | 58.7 | 53.0 | 47.2 |
| | 2500 | 33.6 | 41.3 | 45.9 | 49.9 | 53.4 | 55.0 | 56.9 | 56.8 | 57.1 | 54.6 | 48.3 | 42.0 |
| | 3150 | 27.1 | 35.4 | 41.1 | 45.9 | 49.5 | 50.2 | 53.5 | 52.8 | 49.0 | 42.1 | 34.8 | 20.6 |
| | 4000 | 17.1 | 26.5 | 33.0 | 37.5 | 43.4 | 43.6 | 46.9 | 44.1 | 44.5 | 39.4 | 31.1 | 21.2 |
| | 5000 | 10.9 | 21.6 | 27.8 | 32.8 | 37.0 | 38.5 | 39.8 | 38.9 | 39.1 | 32.8 | 25.5 | 11.3 |
| | 6300 | 10.0 | 18.1 | 23.8 | 28.5 | 29.3 | 32.1 | 28.8 | 27.3 | 19.6 | 8.4 | | |
| | 8000 | | 2.8 | 9.2 | 13.4 | 15.0 | 17.9 | 13.7 | 9.4 | | | | |
| | 10000 | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | 63.5 | 67.3 | 70.0 | 72.0 | 74.2 | 75.7 | 76.3 | 78.7 | 80.5 | 82.0 | 82.3 | 80.8 | 76.2 |
| PNDB | 66.7 | 71.4 | 74.8 | 77.2 | 80.2 | 81.8 | 83.4 | 84.4 | 85.8 | 85.9 | 83.9 | 80.1 | 73.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 470 R ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-SIZE (513in²)

PRG. DATE - MONTH 9 DAY 7 HR. 13.5

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

FREQ. (C.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)(J.) (G.) (E.) (C.) (P. M)

NO EGA

ROG. NO. C.

RADIAL 40. FT.

VEHICLE CELL41

CONFIG NCSS

LDC C41 ANECH CR

DATE 06-16-76

RUN CONF7REPEAT8

TAPE X07710

BAR 29.5 HG

(99482. N/R2)

TAMB 79. DEG F

(299. DEG K)

TJET 71. DEG F

(295. DEG K)

HACT16.92 GM/#3

(.01692 KG/#3)

FREQ. SHIFT

JET

DIAMETER RATIO

DF/DM 1

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|-------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 50 | 77.9 | 87.2 | 84.9 | 86.7 | 88.0 | 87.7 | 88.7 | 89.4 | 92.5 | 95.4 | 95.4 | 97.4 | 97.4 |
| 63 | 76.1 | 81.4 | 81.9 | 84.2 | 86.5 | 87.6 | 88.0 | 89.4 | 90.6 | 95.9 | 95.9 | 97.9 | 132.9 |
| 120 | 76.9 | 79.9 | 82.7 | 85.5 | 84.3 | 84.9 | 84.8 | 87.0 | 93.5 | 97.9 | 98.9 | 100.9 | 132.9 |
| 125 | 80.5 | 80.5 | 81.8 | 83.8 | 84.7 | 85.8 | 86.4 | 88.6 | 92.5 | 97.9 | 98.9 | 100.9 | 137.7 |
| 230 | 79.1 | 82.1 | 83.8 | 84.1 | 85.2 | 86.6 | 88.7 | 90.9 | 95.1 | 97.9 | 103.9 | 105.8 | 139.5 |
| 315 | 75.9 | 84.7 | 83.7 | 85.7 | 88.1 | 89.2 | 89.3 | 92.2 | 95.2 | 100.0 | 105.7 | 108.4 | 142.1 |
| 400 | 82.7 | 83.7 | 86.2 | 86.3 | 88.1 | 89.5 | 90.1 | 93.5 | 96.7 | 102.5 | 107.7 | 110.2 | 143.6 |
| 500 | 83.5 | 84.0 | 85.8 | 86.8 | 87.7 | 90.0 | 90.9 | 94.3 | 98.0 | 104.1 | 109.3 | 111.0 | 144.7 |
| 630 | 84.6 | 85.9 | 86.6 | 88.2 | 89.8 | 91.4 | 93.0 | 95.7 | 99.6 | 104.5 | 108.4 | 110.9 | 144.6 |
| 800 | 85.6 | 86.9 | 87.9 | 89.5 | 91.0 | 92.4 | 93.8 | 97.0 | 103.9 | 105.5 | 108.2 | 109.6 | 144.3 |
| 1000 | 87.7 | 88.5 | 89.7 | 90.5 | 91.6 | 93.5 | 94.9 | 98.3 | 101.2 | 105.6 | 107.5 | 107.7 | 143.6 |
| 1250 | 87.7 | 88.3 | 89.6 | 91.1 | 92.5 | 93.8 | 95.0 | 98.6 | 101.8 | 105.2 | 106.1 | 107.3 | 143.5 |
| 1600 | 87.9 | 89.7 | 89.7 | 91.2 | 93.3 | 94.9 | 95.6 | 98.0 | 102.2 | 105.3 | 106.2 | 107.6 | 142.9 |
| 2000 | 87.9 | 88.5 | 90.5 | 91.0 | 92.9 | 94.2 | 96.1 | 99.3 | 102.0 | 104.8 | 105.3 | 106.9 | 142.9 |
| 2500 | 88.6 | 88.6 | 90.1 | 90.9 | 93.0 | 94.1 | 95.5 | 99.4 | 102.6 | 103.9 | 104.9 | 106.6 | 142.9 |
| 3150 | 88.3 | 89.1 | 90.6 | 91.6 | 93.7 | 94.1 | 95.9 | 99.6 | 102.8 | 104.3 | 104.9 | 106.6 | 142.9 |
| 4000 | 87.5 | 88.3 | 89.6 | 90.6 | 92.7 | 94.1 | 95.5 | 99.6 | 101.1 | 103.0 | 103.4 | 105.6 | 141.7 |
| 5000 | 87.4 | 88.2 | 89.5 | 91.5 | 92.6 | 94.5 | 95.6 | 99.3 | 101.8 | 101.9 | 103.1 | 104.5 | 141.0 |
| 6300 | 86.0 | 87.5 | 88.8 | 90.4 | 92.7 | 94.5 | 96.4 | 98.9 | 101.1 | 101.0 | 102.6 | 103.8 | 140.5 |
| 8000 | 85.0 | 86.1 | 87.4 | 90.1 | 92.5 | 94.1 | 96.0 | 99.4 | 103.4 | 101.0 | 101.2 | 102.6 | 140.0 |
| 10000 | 83.4 | 85.7 | 86.8 | 89.3 | 91.9 | 92.5 | 94.6 | 97.6 | 99.8 | 99.8 | 99.9 | 102.5 | 140.0 |
| 12500 | 80.8 | 83.2 | 84.9 | 87.3 | 90.1 | 91.2 | 93.6 | 95.2 | 97.6 | 97.6 | 97.4 | 100.0 | 138.3 |
| 16000 | 78.3 | 82.0 | 83.2 | 86.1 | 88.9 | 89.3 | 92.4 | 92.9 | 94.5 | 95.7 | 95.6 | 98.6 | 137.6 |
| 20000 | 75.2 | 78.2 | 80.6 | 83.2 | 87.5 | 87.3 | 90.2 | 89.8 | 92.6 | 91.1 | 91.0 | 94.2 | 135.2 |
| 25000 | 71.7 | 75.4 | 77.0 | 80.4 | 83.1 | 83.3 | 84.8 | 86.5 | 89.3 | 88.5 | 89.1 | 91.9 | 132.8 |
| 31500 | 68.6 | 72.4 | 75.2 | 78.2 | 81.0 | 81.0 | 83.2 | 83.0 | 85.3 | 83.8 | 84.3 | 88.5 | 132.1 |
| 40000 | 63.1 | 67.1 | 71.1 | 74.2 | 76.1 | 78.1 | 78.1 | 77.4 | 80.2 | 79.9 | 79.3 | 83.4 | 130.3 |
| 50000 | 58.1 | 60.8 | 65.2 | 69.2 | 69.3 | 69.8 | 69.8 | 69.0 | 72.0 | 70.9 | 72.3 | 75.2 | 128.9 |
| 63000 | 55.1 | 53.7 | 57.3 | 63.2 | 63.3 | 63.5 | 61.2 | 63.0 | 63.9 | 63.1 | 66.4 | 67.2 | 125.9 |
| 80000 | 46.0 | 48.9 | 54.7 | 60.4 | 60.4 | 60.2 | 61.7 | 53.3 | 55.7 | 59.3 | 59.9 | 63.0 | 131.0 |

OVERALL MEASURED OVERALL CALCULATED

CONFIGURATION TEST POINT ACOUSTIC RANGE SIZE
7 771R 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| NO EGA | FREQ. (0.70)(0.87)(1.05)(1.22)(1.40) | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | PWL | | | |
|--------------------|--------------------------------------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | | 140. | 150. | 160. |
| RDG. NO. | 63 | 81.7 | 86.5 | 85.5 | 87.6 | 89.9 | 91.0 | 91.7 | 94.1 | 97.0 | 101.8 | 107.5 | 110.5 | 153.3 |
| RADIAL 150. FT. | 80 | 84.5 | 85.5 | 88.1 | 88.7 | 89.5 | 91.3 | 92.8 | 96.2 | 99.9 | 106.0 | 112.0 | 111.0 | 155.4 |
| VEHICLE | 100 | 85.4 | 85.9 | 87.6 | 88.7 | 89.5 | 91.3 | 92.8 | 96.2 | 99.9 | 106.0 | 112.0 | 111.0 | 158.0 |
| CONFIG | 125 | 86.5 | 87.7 | 88.5 | 90.0 | 91.3 | 92.9 | 94.3 | 95.6 | 98.8 | 102.3 | 107.3 | 112.7 | 157.9 |
| LOC C41 ANECH CH | 160 | 87.5 | 88.8 | 89.5 | 91.3 | 92.9 | 94.3 | 95.6 | 98.8 | 102.3 | 107.3 | 112.7 | 111.5 | 157.6 |
| DATE 06-16-76 | 200 | 89.6 | 90.3 | 91.5 | 92.4 | 93.5 | 95.3 | 96.7 | 100.1 | 103.1 | 107.4 | 109.4 | 110.3 | 157.1 |
| RUN CONFREPEATH | 250 | 83.9 | 90.2 | 92.7 | 93.0 | 94.3 | 95.7 | 96.8 | 100.5 | 103.7 | 107.0 | 108.0 | 109.1 | 156.5 |
| TAPE X07710 | 315 | 89.0 | 91.5 | 91.6 | 93.1 | 95.2 | 96.8 | 97.4 | 99.8 | 104.1 | 107.1 | 108.1 | 109.5 | 156.8 |
| BAR 29.5 HG | 400 | 89.7 | 90.5 | 92.0 | 92.8 | 94.9 | 96.1 | 96.8 | 101.1 | 103.9 | 106.7 | 107.1 | 108.8 | 156.2 |
| (99482. N/M2) | 500 | 89.7 | 90.5 | 92.0 | 92.8 | 94.9 | 96.1 | 96.8 | 101.1 | 103.9 | 106.7 | 107.1 | 108.8 | 156.0 |
| TAMB 79. DEG F | 630 | 90.2 | 91.0 | 92.5 | 93.5 | 95.6 | 96.0 | 97.4 | 101.3 | 104.5 | 105.8 | 106.8 | 108.4 | 156.0 |
| (299. DEG K) | 800 | 89.5 | 90.3 | 91.6 | 92.6 | 94.7 | 96.1 | 97.4 | 101.6 | 103.1 | 104.9 | 105.4 | 107.5 | 155.0 |
| THET 71. DEG F | 1000 | 89.4 | 90.2 | 91.5 | 93.5 | 94.6 | 96.4 | 97.6 | 101.3 | 103.7 | 103.8 | 105.0 | 106.4 | 154.7 |
| (295. DEG K) | 1250 | 88.0 | 89.6 | 90.9 | 92.4 | 94.8 | 96.6 | 98.5 | 100.9 | 103.2 | 103.0 | 104.7 | 105.8 | 154.3 |
| HACT16.92 GM/M3 | 1600 | 87.2 | 88.3 | 89.6 | 92.4 | 94.7 | 96.3 | 98.2 | 100.6 | 102.6 | 103.2 | 103.4 | 104.8 | 153.8 |
| (.01692 KG/M3) | 2000 | 85.8 | 88.2 | 89.3 | 91.8 | 94.3 | 94.9 | 97.1 | 100.0 | 102.3 | 101.9 | 102.3 | 104.9 | 153.3 |
| FREQ. SHIFT | 3150 | 81.6 | 85.4 | 86.6 | 89.5 | 92.9 | 94.0 | 96.4 | 98.0 | 100.4 | 99.8 | 99.0 | 102.8 | 151.7 |
| JET | 4000 | 79.2 | 82.3 | 84.6 | 87.3 | 91.5 | 91.4 | 94.3 | 93.8 | 96.3 | 99.8 | 99.0 | 101.9 | 150.9 |
| DIAMETER RATIO | 5000 | 77.0 | 80.8 | 82.4 | 85.7 | 88.4 | 89.9 | 90.1 | 91.8 | 94.6 | 92.2 | 93.8 | 94.4 | 146.1 |
| DF/DM 4.63 | 6300 | 75.5 | 79.3 | 82.2 | 85.2 | 87.9 | 87.9 | 90.1 | 89.9 | 92.2 | 90.7 | 91.2 | 95.4 | 145.4 |
| | 8000 | 72.4 | 76.4 | 80.4 | 83.5 | 85.3 | 85.4 | 87.3 | 86.7 | 89.4 | 88.2 | 88.6 | 92.5 | 143.6 |
| | 10000 | 68.4 | 73.2 | 77.5 | 81.4 | 81.5 | 81.6 | 82.1 | 81.3 | 84.3 | 83.2 | 84.6 | 87.5 | 140.2 |
| | 12500 | 66.9 | 70.5 | 75.7 | 80.0 | 80.0 | 80.0 | 80.3 | 78.0 | 79.3 | 80.7 | 81.8 | 83.2 | 139.2 |
| | 16000 | 69.1 | 72.0 | 77.8 | 83.5 | 83.5 | 83.1 | 84.8 | 76.4 | 78.8 | 82.4 | 81.8 | 83.1 | 144.4 |
| OVERALL CALCULATED | 100.5 | 101.9 | 103.3 | 104.7 | 106.7 | 107.9 | 109.5 | 112.4 | 115.3 | 117.9 | 120.2 | 122.0 | 121.4 | 168.7 |
| PWDB | 109.7 | 111.8 | 113.4 | 115.6 | 118.0 | 118.9 | 121.0 | 122.9 | 125.7 | 126.3 | 127.4 | 129.6 | 129.1 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 771 R ACOUSTIC RANGE 45.7m(150ft.) ARC FULL-33m²(513in²) SIZE

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 0. 10. 30. 45. 60. 75. 90. 100. 110. 120. 130. 140. 150. 160.

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (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) |
| SIDELINE 2400. FT. | 50 | 52.7 | 57.3 | 60.2 | 61.2 | 62.7 | 64.2 | 66.2 | 67.9 | 69.4 | 73.1 | 77.5 | 74.8 |
| (731.52 M) | 80 | 53.5 | 59.9 | 60.0 | 62.7 | 65.5 | 66.7 | 67.2 | 69.2 | 71.5 | 75.2 | 79.3 | 76.5 |
| NFA | 100 | 56.2 | 58.8 | 62.4 | 63.2 | 65.5 | 67.0 | 67.5 | 70.4 | 72.9 | 77.6 | 81.4 | 76.9 |
| (1. RPM | 125 | 56.9 | 59.1 | 61.9 | 63.7 | 65.0 | 67.5 | 68.2 | 71.2 | 74.2 | 79.1 | 82.7 | 77.0 |
| (0. RAD/SEC) | 160 | 57.9 | 60.8 | 62.7 | 65.0 | 67.0 | 68.7 | 70.2 | 72.5 | 75.7 | 79.4 | 81.7 | 76.8 |
| NFK | 200 | 58.7 | 61.7 | 63.8 | 66.1 | 68.1 | 69.7 | 70.9 | 73.0 | 76.8 | 80.2 | 81.3 | 75.3 |
| (1. RPM | 250 | 60.6 | 63.1 | 65.5 | 67.1 | 68.6 | 70.6 | 71.8 | 74.8 | 77.0 | 80.4 | 78.1 | 75.0 |
| (0. RAD/SEC) | 315 | 59.5 | 63.8 | 65.0 | 67.4 | 69.9 | 71.7 | 72.2 | 74.1 | 77.5 | 79.4 | 78.5 | 73.1 |
| NFD | 400 | 59.8 | 62.2 | 65.5 | 66.9 | 69.2 | 70.7 | 72.4 | 75.1 | 77.0 | 78.6 | 77.1 | 71.0 |
| (785. RAD/SEC) | 500 | 59.2 | 61.9 | 64.8 | 66.4 | 69.0 | 70.3 | 71.5 | 74.9 | 77.3 | 77.3 | 75.0 | 69.6 |
| AIRFLOW RATIO | 630 | 59.0 | 61.8 | 64.8 | 66.7 | 69.3 | 69.8 | 71.6 | 74.7 | 77.0 | 77.2 | 75.6 | 67.5 |
| WF/WM 4.63 | 800 | 57.4 | 60.4 | 63.2 | 65.2 | 67.8 | 69.3 | 70.6 | 74.2 | 74.7 | 75.1 | 73.3 | 63.6 |
| VEHICLE CELL41 | 1000 | 56.2 | 59.4 | 62.3 | 65.3 | 67.0 | 69.1 | 70.0 | 73.1 | 74.6 | 73.1 | 71.8 | 61.7 |
| CONFIG NC58 | 1250 | 53.5 | 57.7 | 60.7 | 63.4 | 66.3 | 68.4 | 70.1 | 71.9 | 73.0 | 71.1 | 70.2 | 58.8 |
| LOC C41 ANECH CH | 1500 | 50.7 | 54.8 | 58.0 | 62.0 | 65.0 | 66.8 | 68.5 | 70.2 | 71.0 | 69.7 | 66.9 | 54.2 |
| DATE 06-16-76 | 2000 | 47.0 | 52.7 | 56.0 | 59.8 | 63.2 | 64.0 | 65.9 | 68.1 | 69.0 | 66.5 | 63.5 | 49.5 |
| RUN CONF7REPEATH | 2500 | 41.4 | 47.8 | 51.9 | 56.0 | 59.6 | 61.0 | 63.1 | 63.9 | 64.7 | 61.6 | 58.1 | 41.9 |
| TAPE X07710 | 3150 | 34.1 | 42.7 | 46.9 | 51.7 | 55.6 | 56.2 | 59.1 | 58.5 | 60.1 | 56.3 | 51.4 | 30.4 |
| FAM TIP SPEED | 4000 | 23.6 | 32.8 | 39.0 | 44.1 | 49.6 | 49.9 | 52.4 | 50.6 | 51.3 | 45.7 | 39.4 | 12.9 |
| FT/SEC | 5000 | 16.7 | 27.4 | 33.3 | 39.4 | 43.6 | 44.2 | 45.3 | 45.5 | 45.6 | 38.9 | 33.5 | 22.3 |
| | 6300 | 1.5 | 14.5 | 23.1 | 29.6 | 34.3 | 34.9 | 36.4 | 34.4 | 33.1 | 25.9 | 17.2 | 5.5 |
| | 8000 | | 5.9 | 13.8 | 18.2 | 19.1 | 20.2 | 17.0 | 14.9 | 5.9 | | | |
| | 10000 | | | | | | | | | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | PNdB | 69.8 | 73.0 | 75.6 | 77.6 | 79.8 | 81.4 | 82.6 | 85.3 | 87.6 | 89.7 | 90.7 | 85.6 |
| | | 74.0 | 77.6 | 80.8 | 83.5 | 86.4 | 87.9 | 89.5 | 91.6 | 93.3 | 94.0 | 93.4 | 86.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 771 R ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| RDG. NO. | NO. EGA | MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | SIZE | | | | | |
|--------------------|---------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | | | | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | |
| | | (C.70) | (C.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.75) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.97) | (3.14) | |
| 50 | 50 | 81.4 | 86.7 | 87.7 | 89.0 | 88.7 | 89.3 | 90.0 | 90.9 | 91.2 | 92.7 | 96.7 | 96.6 | 93.9 | | | |
| 63 | 63 | 80.8 | 85.1 | 86.4 | 88.0 | 89.0 | 89.0 | 90.0 | 90.9 | 90.4 | 89.4 | 87.9 | 100.1 | 100.5 | | | |
| 100 | 100 | 81.1 | 86.4 | 87.7 | 89.0 | 88.7 | 89.3 | 90.0 | 90.9 | 91.2 | 92.7 | 96.7 | 96.6 | 93.9 | | | |
| 125 | 125 | 81.2 | 86.4 | 87.7 | 89.0 | 88.7 | 89.3 | 90.0 | 90.9 | 91.2 | 92.7 | 96.7 | 96.6 | 93.9 | | | |
| 200 | 200 | 81.8 | 86.7 | 87.7 | 89.0 | 88.7 | 89.3 | 90.0 | 90.9 | 91.2 | 92.7 | 96.7 | 96.6 | 93.9 | | | |
| 250 | 250 | 80.6 | 85.6 | 86.5 | 87.5 | 87.8 | 88.2 | 89.1 | 90.2 | 91.1 | 92.4 | 96.4 | 101.5 | 110.6 | 110.2 | | |
| 315 | 315 | 81.9 | 85.9 | 86.7 | 87.2 | 89.6 | 90.2 | 91.1 | 93.2 | 96.4 | 101.5 | 107.2 | 110.6 | 110.2 | | | |
| 400 | 400 | 84.2 | 85.7 | 87.5 | 87.5 | 89.1 | 90.5 | 91.6 | 95.0 | 98.2 | 103.8 | 109.5 | 111.7 | 110.5 | | | |
| 500 | 500 | 84.5 | 85.8 | 87.3 | 87.8 | 89.7 | 91.3 | 92.4 | 95.1 | 99.0 | 105.6 | 111.3 | 113.0 | 111.3 | | | |
| 630 | 630 | 85.6 | 87.1 | 87.9 | 89.4 | 91.3 | 92.6 | 94.3 | 97.2 | 100.9 | 106.5 | 111.2 | 112.6 | 111.6 | | | |
| 800 | 800 | 87.1 | 88.4 | 89.2 | 90.7 | 92.5 | 93.9 | 95.5 | 97.7 | 101.9 | 106.7 | 110.7 | 112.1 | 111.9 | | | |
| 1000 | 1000 | 90.0 | 90.5 | 92.0 | 92.3 | 93.4 | 94.7 | 96.1 | 99.0 | 102.5 | 106.8 | 109.5 | 110.9 | 111.2 | | | |
| 1250 | 1250 | 89.0 | 90.1 | 92.6 | 93.1 | 93.7 | 95.8 | 96.7 | 99.6 | 103.3 | 106.7 | 108.1 | 111.3 | 111.1 | | | |
| 1600 | 1600 | 89.1 | 90.7 | 92.5 | 94.3 | 96.2 | 97.3 | 99.5 | 103.7 | 106.6 | 108.2 | 110.6 | 111.7 | | | | |
| 2000 | 2000 | 89.7 | 90.5 | 92.5 | 94.6 | 95.7 | 97.9 | 100.5 | 104.0 | 106.1 | 108.0 | 110.7 | 110.0 | | | | |
| 2500 | 2500 | 89.8 | 90.6 | 91.8 | 93.6 | 94.5 | 95.8 | 97.7 | 100.6 | 104.1 | 105.7 | 107.4 | 110.3 | 109.6 | | | |
| 3150 | 3150 | 90.3 | 91.3 | 93.3 | 93.6 | 95.2 | 96.1 | 98.2 | 101.1 | 104.6 | 105.9 | 108.1 | 109.8 | 107.6 | | | |
| 4000 | 4000 | 85.3 | 90.1 | 91.9 | 92.6 | 94.2 | 95.8 | 97.7 | 100.9 | 103.1 | 105.2 | 106.9 | 108.1 | 105.6 | | | |
| 5000 | 5000 | 88.4 | 89.7 | 91.7 | 93.0 | 94.1 | 96.0 | 97.6 | 100.8 | 103.5 | 104.1 | 106.3 | 106.7 | 105.7 | | | |
| 6300 | 6300 | 87.5 | 89.0 | 90.8 | 92.3 | 94.7 | 96.3 | 98.7 | 100.3 | 103.3 | 103.2 | 105.6 | 107.3 | 105.6 | | | |
| 8000 | 8000 | 87.2 | 88.8 | 90.1 | 92.1 | 94.7 | 96.1 | 98.2 | 99.9 | 102.6 | 102.5 | 104.4 | 106.3 | 104.8 | | | |
| 10000 | 10000 | 84.9 | 88.5 | 90.1 | 91.3 | 94.1 | 94.2 | 97.1 | 99.6 | 101.6 | 101.2 | 102.6 | 105.2 | 104.5 | | | |
| 12500 | 12500 | 83.5 | 87.3 | 88.6 | 90.3 | 92.4 | 93.3 | 96.4 | 97.5 | 100.1 | 99.3 | 100.5 | 103.5 | 102.6 | | | |
| 16000 | 16000 | 81.0 | 85.6 | 87.2 | 90.2 | 92.5 | 91.6 | 95.5 | 95.7 | 98.7 | 97.2 | 98.8 | 102.4 | 101.3 | | | |
| 20000 | 20000 | 78.2 | 82.0 | 84.9 | 86.8 | 91.3 | 90.4 | 92.8 | 92.1 | 95.4 | 93.6 | 95.3 | 97.5 | 98.6 | | | |
| 25000 | 25000 | 75.2 | 79.7 | 81.1 | 83.4 | 86.2 | 86.9 | 88.2 | 89.1 | 92.1 | 90.0 | 92.8 | 93.2 | 94.6 | | | |
| 31500 | 31500 | 73.5 | 77.5 | 80.1 | 81.4 | 84.6 | 84.3 | 86.5 | 85.9 | 88.7 | 86.5 | 89.4 | 91.2 | 92.6 | | | |
| 40000 | 40000 | 69.0 | 72.8 | 76.4 | 77.4 | 79.8 | 79.0 | 81.3 | 81.1 | 83.6 | 82.9 | 85.5 | 89.5 | 88.6 | | | |
| 50000 | 50000 | 64.0 | 66.8 | 71.0 | 71.6 | 71.5 | 72.0 | 73.8 | 76.5 | 76.2 | 80.1 | 81.9 | 81.8 | | | | |
| 63000 | 63000 | 59.4 | 61.3 | 66.3 | 65.3 | 65.1 | 65.5 | 64.6 | 66.6 | 69.1 | 70.9 | 73.7 | 76.0 | 75.5 | | | |
| 80000 | 80000 | 56.6 | 56.5 | 61.0 | 60.7 | 61.4 | 61.8 | 62.5 | 64.4 | 69.0 | 69.9 | 71.6 | 72.4 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 100.5 | 102.1 | 103.5 | 104.7 | 106.4 | 107.6 | 109.5 | 111.8 | 115.0 | 117.6 | 120.8 | 122.8 | 122.3 | | | |
| PNDB | | 113.6 | 114.9 | 116.5 | 117.3 | 118.9 | 120.1 | 121.9 | 124.6 | 127.8 | 129.9 | 132.5 | 134.4 | 133.5 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 772-R ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-154cm²(23.9in²)

FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | PWL | | | | | | | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | 40° | 50° | 60° | 70° | 80° | 90° | | | | | | | | | | | | |
| 50 | (0.70) | (0.87) | (1.05) | (1.22) | (1.40) | (1.57) | (1.73) | (1.92) | (2.09) | (2.27) | (2.44) | (2.62) | (2.79) | (2.96) | (3.14) | (3.32) | (3.49) | |
| 63 | 82.4 | 85.4 | 86.9 | 87.5 | 88.3 | 89.7 | 91.6 | 94.0 | 95.9 | 101.0 | 107.4 | 109.9 | 110.4 | 115.1 | 117.1 | 118.5 | 120.0 | 121.5 |
| 80 | 83.7 | 87.8 | 86.5 | 89.1 | 91.4 | 92.0 | 92.9 | 95.1 | 98.3 | 103.3 | 109.0 | 112.5 | 112.0 | 116.2 | 118.1 | 120.0 | 122.0 | 124.0 |
| 100 | 86.4 | 87.6 | 89.1 | 89.7 | 91.5 | 93.1 | 94.3 | 96.9 | 100.9 | 107.5 | 113.2 | 114.6 | 113.1 | 119.0 | 121.0 | 123.5 | 126.0 | 128.5 |
| 125 | 87.5 | 89.0 | 89.7 | 91.3 | 93.1 | 94.5 | 96.1 | 99.0 | 102.7 | 108.3 | 113.0 | 114.4 | 113.5 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 160 | 89.0 | 90.0 | 91.3 | 92.5 | 94.1 | 95.8 | 97.4 | 100.0 | 103.5 | 108.6 | 112.5 | 114.0 | 113.8 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 200 | 91.3 | 92.3 | 93.8 | 94.1 | 95.2 | 96.6 | 98.0 | 100.9 | 104.3 | 108.7 | 111.4 | 112.8 | 113.1 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 250 | 90.9 | 91.9 | 94.4 | 95.0 | 95.6 | 97.7 | 98.6 | 101.5 | 105.2 | 108.5 | 110.0 | 113.1 | 112.9 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 315 | 91.0 | 92.5 | 92.8 | 94.3 | 96.2 | 98.0 | 99.2 | 101.3 | 105.5 | 108.6 | 110.1 | 112.5 | 113.5 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 400 | 91.5 | 92.3 | 94.4 | 94.9 | 96.5 | 97.6 | 99.7 | 102.4 | 105.9 | 107.9 | 109.9 | 112.6 | 111.8 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 500 | 91.7 | 92.5 | 93.7 | 95.5 | 96.3 | 97.7 | 99.6 | 102.5 | 106.0 | 107.6 | 109.3 | 112.2 | 111.5 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 630 | 92.2 | 93.2 | 95.2 | 95.2 | 97.1 | 98.0 | 100.1 | 103.0 | 106.5 | 107.8 | 110.0 | 111.7 | 109.7 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 800 | 91.2 | 92.0 | 93.8 | 94.6 | 96.2 | 97.8 | 99.7 | 102.8 | 105.1 | 107.2 | 108.9 | 110.3 | 107.5 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 1000 | 90.4 | 91.7 | 93.7 | 95.0 | 96.1 | 97.9 | 99.6 | 102.7 | 105.5 | 106.1 | 108.3 | 108.7 | 107.7 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 1250 | 89.5 | 91.1 | 92.9 | 94.4 | 96.7 | 98.3 | 100.7 | 102.4 | 105.4 | 105.3 | 107.7 | 109.3 | 107.8 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 1600 | 89.5 | 91.0 | 92.4 | 94.4 | 96.9 | 98.3 | 100.4 | 102.1 | 104.9 | 104.7 | 106.7 | 108.5 | 107.0 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 2000 | 87.3 | 90.9 | 92.5 | 93.8 | 96.6 | 96.7 | 99.6 | 102.0 | 104.0 | 103.7 | 105.1 | 107.7 | 106.9 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 2500 | 86.3 | 90.1 | 91.4 | 93.1 | 95.2 | 96.1 | 99.2 | 100.3 | 102.9 | 102.1 | 103.3 | 106.3 | 105.6 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 3150 | 84.4 | 88.9 | 90.6 | 93.5 | 95.8 | 95.2 | 98.8 | 99.1 | 102.1 | 102.6 | 102.2 | 105.7 | 105.2 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 4000 | 82.3 | 86.1 | 88.9 | 90.8 | 95.3 | 94.4 | 96.8 | 96.1 | 99.4 | 97.7 | 99.3 | 101.5 | 102.7 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 5000 | 80.6 | 85.1 | 86.5 | 88.8 | 91.5 | 92.2 | 93.5 | 94.4 | 97.5 | 95.3 | 98.2 | 98.5 | 100.1 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 6300 | 80.4 | 84.4 | 87.1 | 88.3 | 91.6 | 91.3 | 93.5 | 92.8 | 95.6 | 93.4 | 96.4 | 101.1 | 99.5 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 8000 | 78.3 | 82.1 | 85.6 | 86.7 | 89.0 | 88.3 | 90.5 | 90.4 | 92.9 | 92.2 | 94.8 | 98.7 | 97.8 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 10000 | 76.3 | 79.2 | 83.3 | 83.9 | 83.8 | 84.4 | 85.1 | 86.1 | 88.6 | 88.5 | 92.5 | 94.1 | 94.1 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 12500 | 76.2 | 78.1 | 83.1 | 82.1 | 81.9 | 82.3 | 81.4 | 83.4 | 85.9 | 87.6 | 90.5 | 92.6 | 92.3 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| 16000 | 79.7 | 81.6 | 87.7 | 84.2 | 83.9 | 84.5 | 84.9 | 85.6 | 87.5 | 92.1 | 95.0 | 94.7 | 95.5 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| OVERALL CALCULATED | 102.4 | 103.9 | 105.6 | 106.7 | 108.6 | 109.7 | 111.6 | 113.9 | 117.1 | 119.5 | 122.6 | 124.6 | 124.0 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |
| PND8 | 112.1 | 114.9 | 116.6 | 118.4 | 120.6 | 120.9 | 123.5 | 124.8 | 127.8 | 128.3 | 130.4 | 133.0 | 132.4 | 120.0 | 122.0 | 124.5 | 127.0 | 129.5 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION **7** TEST POINT **772 R** ACOUSTIC RANGE **45.7m(150ft.)** ARC
SIZE **FULL-.33m²(51in²)**

| NO | SIDELINE 2400. FT.
(731.52 M) | MFA
(1. RPM) | MFK
(1. RPM) | MFO
(7500. RPM) | AIRFLOW RATIO
(785. RAD/SEC) | VF/WM
4.63 | VEHICLE
CONFIG | LDC
C41 ANECH CH | DATE
06-16-76 | RUN
CONF7REBEATH | TAPE
X07720 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F/ 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------------------------------|-----------------|-----------------|--------------------|---------------------------------|---------------|-------------------|---------------------|------------------|---------------------|----------------|-------------------------|---|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------|------|------|------|------|------|------|------|------|--|
| | | | | | | | | | | | | | 40. FREQ. | 50. FREQ. | 60. FREQ. | 70. FREQ. | 80. FREQ. | 90. FREQ. | 100. FREQ. | 110. FREQ. | 120. FREQ. | 130. FREQ. | 140. FREQ. | 150. FREQ. | 160. FREQ. | | | | | | | | | | |
| 50 | 54.2 | 58.8 | 61.4 | 62.7 | 63.9 | 65.4 | 67.2 | 69.2 | 70.4 | 74.4 | 79.3 | 79.4 | 76.5 | 78.0 | 78.1 | 78.7 | 78.8 | 78.8 | 77.7 | 77.1 | 77.0 | 74.5 | 66.1 | 64.2 | 61.7 | 57.2 | 52.7 | 46.9 | 34.2 | 16.2 | 4.7 | | | | |
| 63 | 55.5 | 61.1 | 61.0 | 64.2 | 67.0 | 68.5 | 70.2 | 72.7 | 76.7 | 80.8 | 82.0 | 82.0 | 78.0 | 78.0 | 78.1 | 78.7 | 78.8 | 78.8 | 77.7 | 77.1 | 77.0 | 74.5 | 66.1 | 64.2 | 61.7 | 57.2 | 52.7 | 46.9 | 34.2 | 16.2 | 4.7 | | | | |
| 80 | 57.7 | 60.8 | 63.7 | 64.4 | 66.5 | 68.0 | 69.0 | 71.9 | 74.4 | 78.9 | 83.0 | 82.9 | 78.1 | 78.0 | 78.1 | 78.7 | 78.8 | 78.8 | 77.7 | 77.1 | 77.0 | 74.5 | 66.1 | 64.2 | 61.7 | 57.2 | 52.7 | 46.9 | 34.2 | 16.2 | 4.7 | | | | |
| 100 | 57.9 | 60.8 | 63.4 | 64.7 | 67.0 | 68.7 | 69.7 | 72.0 | 75.2 | 80.6 | 84.7 | 84.1 | 78.7 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 77.7 | 77.1 | 77.0 | 74.5 | 66.1 | 64.2 | 61.7 | 57.2 | 52.7 | 46.9 | 34.2 | 16.2 | 4.7 | | | | |
| 125 | 58.9 | 62.0 | 63.9 | 66.2 | 68.5 | 70.0 | 71.5 | 74.0 | 76.9 | 81.4 | 84.4 | 83.5 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 77.7 | 77.1 | 77.0 | 74.5 | 66.1 | 64.2 | 61.7 | 57.2 | 52.7 | 46.9 | 34.2 | 16.2 | 4.7 | | | | |
| 160 | 60.2 | 63.2 | 65.1 | 67.4 | 69.6 | 71.2 | 72.6 | 74.4 | 77.8 | 81.5 | 83.8 | 82.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 77.7 | 77.1 | 77.0 | 74.5 | 66.1 | 64.2 | 61.7 | 57.2 | 52.7 | 46.9 | 34.2 | 16.2 | 4.7 | | | | |
| 200 | 62.9 | 65.1 | 67.8 | 68.8 | 70.3 | 71.9 | 73.1 | 75.6 | 78.3 | 81.4 | 82.4 | 81.4 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | | |
| 250 | 61.7 | 64.5 | 68.2 | 69.5 | 70.5 | 72.8 | 73.5 | 76.0 | 78.9 | 81.0 | 80.7 | 81.4 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | | |
| 315 | 61.5 | 64.8 | 66.3 | 68.6 | 70.9 | 72.9 | 73.9 | 75.6 | 79.0 | 80.9 | 80.5 | 80.3 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | |
| 400 | 61.6 | 64.2 | 67.5 | 68.9 | 70.9 | 72.2 | 74.2 | 76.4 | 79.0 | 79.8 | 79.9 | 79.8 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | |
| 500 | 61.2 | 63.9 | 66.5 | 69.1 | 70.5 | 72.0 | 73.7 | 76.1 | 78.7 | 79.0 | 78.7 | 78.7 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | |
| 630 | 61.0 | 64.1 | 67.5 | 68.7 | 70.8 | 71.8 | 73.8 | 76.2 | 78.6 | 78.7 | 78.7 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | |
| 800 | 59.1 | 62.2 | 65.4 | 67.2 | 69.3 | 71.1 | 72.8 | 75.4 | 78.7 | 77.3 | 76.8 | 74.5 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | |
| 1000 | 57.2 | 60.9 | 64.5 | 66.8 | 68.5 | 70.5 | 72.0 | 74.6 | 76.3 | 75.3 | 75.2 | 73.3 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | |
| 1250 | 55.0 | 59.2 | 62.7 | 65.3 | 68.3 | 70.1 | 72.3 | 73.3 | 75.2 | 73.3 | 73.3 | 71.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | |
| 1600 | 53.0 | 57.5 | 60.8 | 64.0 | 67.2 | 68.8 | 70.7 | 71.7 | 73.3 | 71.2 | 70.2 | 67.3 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | |
| 2000 | 48.5 | 55.5 | 59.2 | 61.8 | 65.4 | 65.8 | 68.4 | 70.1 | 70.7 | 68.2 | 66.3 | 63.5 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | |
| 2500 | 44.2 | 51.8 | 55.7 | 59.0 | 61.9 | 63.0 | 65.9 | 66.1 | 67.2 | 63.9 | 61.1 | 57.8 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | |
| 3150 | 36.9 | 46.2 | 50.9 | 55.7 | 59.9 | 58.8 | 62.1 | 61.3 | 62.4 | 57.8 | 54.7 | 50.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | |
| 4000 | 26.7 | 36.6 | 43.3 | 47.6 | 53.6 | 52.9 | 54.9 | 52.9 | 53.8 | 48.2 | 43.7 | 35.5 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | |
| 5000 | 20.3 | 31.7 | 37.4 | 42.6 | 46.6 | 47.8 | 48.6 | 48.1 | 48.5 | 42.0 | 37.9 | 26.4 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | | |
| 6300 | 6.3 | 19.6 | 28.0 | 32.7 | 37.9 | 38.2 | 39.8 | 37.2 | 36.5 | 23.6 | 22.3 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | |
| 8000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PNDB | 71.6 | 74.7 | 77.5 | 79.3 | 81.4 | 82.9 | 84.5 | 86.6 | 89.1 | 91.2 | 93.0 | 92.5 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | | |
| OVERALL CALCULATED | 75.9 | 79.8 | 83.1 | 85.6 | 88.5 | 89.8 | 91.7 | 93.2 | 95.1 | 95.6 | 96.0 | 95.0 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 772 R ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-.33m(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

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

PREC. DATE - MONTH 9 DAY 7 HR. 13.5
 0. G. 0. (C.)
 140. 150. 160. PML
 120. 130. 140. 150. 160. (C.)
 100. 110. 120. 130. 140. 150. 160. (C.)
 80. 90. 100. 110. 120. 130. 140. 150. 160. (C.)
 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. (C.)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. (C.)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PML |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | |
| RDG. NO. | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| RADIAL (12. M) | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| VEHICLE CELL41 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| COMFIC NC58 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| LOC C41 ANECHO CH | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| DATE 06-16-76 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| RUN CONFREPETH | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| TAPE X07750 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| BAR 29.3 HG | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| (99009. M/M2) | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| TAPR 67. DEG F | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| (291. DEG K) | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| TWET 65. DEG F | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| (291. DEG K) | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| HACTIS.07 GM/M3 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| (.01507 KG/M3) | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| FREQ. SHIFT | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| JET 0 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| DIAMETER RATIO | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| DF/DW 1.00 | 74.1 | 78.1 | 83.4 | 81.4 | 82.5 | 84.0 | 83.9 | 84.0 | 85.0 | 85.6 | 87.7 | 91.7 | 91.6 | 93.6 |
| OVERALL MEASURED | 53.5 | 96.1 | 97.5 | 98.6 | 100.6 | 101.7 | 103.3 | 105.6 | 108.2 | 110.3 | 112.1 | 113.5 | 112.2 | 149.5 |
| OVERALL CALCULATED | 106.6 | 108.8 | 110.2 | 111.6 | 113.2 | 114.2 | 115.7 | 118.3 | 121.0 | 122.3 | 123.0 | 123.8 | 121.5 | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 775 R ACOUSTIC RANGE 12.2m(40ft.) ARC

SIZE MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

| NO EGA | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA | | | | | PROC. DATE - MONTH 9 DAY 7 HR. 17.6 | | | | | |
|--------------------|---------------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------------------------------------|-------|-------|-------|-----------|--------------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | REL. HUM. | DAY - JENOTS |
| RDG. NO. | 50 | 77.9 | 80.9 | 82.2 | 82.5 | 83.3 | 85.2 | 87.6 | 89.2 | 90.9 | 95.2 | 101.2 | 103.6 | 103.9 | 0. | 0. |
| RADIAL 150. FT. | 63 | 79.2 | 82.8 | 82.3 | 84.6 | 86.9 | 87.5 | 88.4 | 90.3 | 92.8 | 97.6 | 102.5 | 105.5 | 105.5 | 0. | 0. |
| (46. M) | 80 | 81.3 | 82.8 | 84.5 | 85.3 | 86.4 | 87.3 | 88.7 | 91.6 | 94.5 | 99.6 | 104.3 | 106.8 | 105.3 | 0. | 0. |
| VEHICLE CELL41 | 100 | 81.4 | 82.9 | 84.4 | 85.2 | 87.0 | 88.9 | 89.5 | 92.4 | 95.1 | 100.4 | 104.2 | 106.6 | 104.9 | 0. | 0. |
| CONFIG NC58 | 125 | 82.5 | 84.5 | 85.2 | 86.5 | 87.9 | 89.2 | 90.9 | 93.3 | 96.5 | 100.8 | 103.5 | 104.9 | 103.0 | 0. | 0. |
| LOC C41 ANECH CH | 160 | 83.5 | 85.5 | 86.3 | 87.8 | 89.4 | 90.2 | 91.6 | 94.3 | 97.5 | 101.8 | 103.8 | 104.0 | 100.5 | 0. | 0. |
| DATE 06-16-76 | 200 | 84.8 | 86.3 | 87.3 | 88.1 | 89.7 | 91.3 | 92.7 | 95.6 | 97.8 | 101.7 | 103.1 | 101.8 | 99.1 | 0. | 0. |
| RUN CONFREPEATH | 250 | 84.5 | 85.9 | 88.7 | 88.7 | 90.1 | 91.4 | 92.3 | 96.0 | 98.4 | 101.5 | 102.0 | 101.9 | 97.9 | 0. | 0. |
| TAPE X07750 | 315 | 84.5 | 87.0 | 87.3 | 88.3 | 90.9 | 92.3 | 92.9 | 95.1 | 98.8 | 101.6 | 101.3 | 101.5 | 98.3 | 0. | 0. |
| BAR 29.3 HG | 400 | 84.8 | 86.1 | 88.3 | 88.9 | 90.2 | 91.8 | 93.5 | 96.1 | 98.8 | 100.4 | 100.6 | 100.0 | 96.8 | 0. | 0. |
| (99009. N/M2) | 630 | 84.7 | 86.7 | 88.0 | 88.7 | 90.3 | 91.7 | 93.1 | 96.2 | 99.0 | 99.8 | 99.5 | 100.4 | 97.2 | 0. | 0. |
| TAHD 67 DEG F | 800 | 83.5 | 85.5 | 86.8 | 88.6 | 90.2 | 91.5 | 93.2 | 96.3 | 98.1 | 98.9 | 97.3 | 98.0 | 93.8 | 0. | 0. |
| (293. DEG K) | 1000 | 83.4 | 85.2 | 87.2 | 88.7 | 89.8 | 91.4 | 92.8 | 95.7 | 97.7 | 97.8 | 97.0 | 97.6 | 94.7 | 0. | 0. |
| THET 65 DEG K | 1250 | 82.8 | 85.1 | 86.6 | 88.4 | 90.7 | 92.1 | 94.2 | 95.6 | 97.6 | 97.2 | 96.4 | 97.1 | 96.6 | 0. | 0. |
| (291. DEG K) | 1600 | 81.7 | 83.8 | 85.3 | 87.8 | 90.4 | 91.8 | 93.9 | 95.1 | 97.6 | 96.7 | 95.6 | 97.0 | 97.3 | 0. | 0. |
| HACT15.07 GM/M3 | 2000 | 80.1 | 83.9 | 85.0 | 87.2 | 89.8 | 90.4 | 93.1 | 95.0 | 97.2 | 96.1 | 94.8 | 97.4 | 97.4 | 0. | 0. |
| (.01507 KG/M3) | 2500 | 78.0 | 81.3 | 83.6 | 85.8 | 88.4 | 89.8 | 92.7 | 93.0 | 94.9 | 94.5 | 93.4 | 96.0 | 96.3 | 0. | 0. |
| FREQ. SHIFT | 3150 | 77.4 | 80.1 | 82.3 | 85.2 | 88.0 | 88.9 | 91.8 | 91.5 | 94.5 | 93.0 | 92.4 | 94.9 | 95.4 | 0. | 0. |
| JET | 4000 | 75.0 | 77.5 | 80.3 | 82.5 | 86.7 | 86.8 | 90.5 | 89.0 | 92.1 | 90.6 | 89.7 | 92.9 | 93.4 | 0. | 0. |
| DIAMETER RATIO | 5000 | 73.2 | 77.2 | 78.8 | 80.7 | 83.9 | 84.6 | 86.6 | 87.3 | 87.9 | 88.5 | 88.5 | 88.6 | 91.0 | 0. | 0. |
| DF/DM 4.63 | 6300 | 72.0 | 76.8 | 79.1 | 81.1 | 83.9 | 84.4 | 87.0 | 85.9 | 88.1 | 86.4 | 85.9 | 89.9 | 87.9 | 0. | 0. |
| OVERALL CALCULATED | 8000 | 70.6 | 75.8 | 79.6 | 80.2 | 82.0 | 83.1 | 86.5 | 84.9 | 88.1 | 86.2 | 83.3 | 86.5 | 84.8 | 0. | 0. |
| | 10000 | 67.3 | 72.1 | 75.9 | 75.6 | 76.2 | 78.0 | 81.5 | 80.0 | 81.4 | 79.6 | 78.7 | 80.1 | 79.3 | 0. | 0. |
| | 12500 | 65.5 | 69.0 | 73.8 | 72.5 | 72.6 | 73.0 | 80.1 | 74.8 | 76.8 | 77.0 | 76.1 | 74.5 | 75.1 | 0. | 0. |
| | 16000 | 68.5 | 70.9 | 77.6 | 74.1 | 73.3 | 73.7 | 85.6 | 75.0 | 75.9 | 80.4 | 78.6 | 73.6 | 77.8 | 0. | 0. |
| | PNDB | 104.8 | 107.7 | 109.4 | 111.3 | 113.7 | 114.7 | 117.1 | 118.1 | 119.1 | 112.2 | 113.8 | 115.1 | 113.5 | 0. | 0. |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 775 R ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

| NO EGA | SIDELINE 2400. FT.
(731.52 M) | NFA
(1. RPM) | MFK
(0. RAD/SEC) | MFO
(0. RAD/SEC) | AIRFLOW RATIO
WF/WM 4.63 | VEHICLE
CONFIG CELL41
LOC HC58 | LOC C41 ANECH CH | DATE 06-16-76 | RUN CONF7REPEATH | TAPE X07750 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | |
|--------------------|----------------------------------|------------------|----------------------|----------------------|-----------------------------|--------------------------------------|------------------|---------------|------------------|-------------|-------------------------|--------------------------|------|------|--|------|------|------|
| | | | | | | | | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. |
| 50 | 49.7 | 54.3 | 56.9 | 57.7 | 59.4 | 60.9 | 63.2 | 64.4 | 65.4 | 68.6 | 73.0 | 73.2 | 70.0 | 120. | 130. | 140. | 150. | 160. |
| 80 | 51.0 | 56.1 | 58.7 | 60.4 | 62.0 | 63.0 | 64.2 | 65.0 | 67.2 | 70.9 | 74.3 | 75.0 | 71.5 | 120. | 130. | 140. | 150. | 160. |
| 100 | 52.9 | 56.1 | 58.7 | 60.2 | 62.5 | 64.5 | 65.0 | 67.5 | 69.4 | 73.6 | 75.7 | 75.8 | 70.5 | 120. | 130. | 140. | 150. | 160. |
| 125 | 53.9 | 57.5 | 59.4 | 61.5 | 63.2 | 64.7 | 66.2 | 68.2 | 70.7 | 73.9 | 74.9 | 74.0 | 68.3 | 120. | 130. | 140. | 150. | 160. |
| 160 | 54.7 | 58.4 | 60.3 | 62.6 | 64.6 | 65.6 | 66.9 | 69.1 | 71.6 | 74.7 | 75.0 | 72.8 | 65.5 | 120. | 130. | 140. | 150. | 160. |
| 200 | 55.8 | 59.1 | 61.2 | 62.8 | 64.8 | 66.6 | 67.8 | 70.3 | 71.7 | 74.4 | 74.2 | 70.4 | 63.7 | 120. | 130. | 140. | 150. | 160. |
| 250 | 55.2 | 58.4 | 62.4 | 63.2 | 65.0 | 66.5 | 67.3 | 70.5 | 72.2 | 74.0 | 72.7 | 70.1 | 62.0 | 120. | 130. | 140. | 150. | 160. |
| 315 | 54.9 | 59.3 | 60.8 | 63.1 | 65.7 | 67.2 | 67.7 | 69.4 | 72.3 | 73.9 | 71.8 | 69.3 | 61.8 | 120. | 130. | 140. | 150. | 160. |
| 400 | 54.8 | 58.0 | 61.5 | 62.9 | 64.7 | 66.4 | 67.9 | 70.1 | 72.0 | 72.3 | 70.6 | 67.3 | 59.5 | 120. | 130. | 140. | 150. | 160. |
| 500 | 54.1 | 58.1 | 60.7 | 62.4 | 64.5 | 66.0 | 67.2 | 69.9 | 71.7 | 71.2 | 69.0 | 66.9 | 58.8 | 120. | 130. | 140. | 150. | 160. |
| 600 | 53.5 | 57.6 | 60.5 | 62.9 | 65.0 | 65.8 | 67.0 | 69.2 | 71.7 | 70.4 | 68.3 | 65.6 | 56.8 | 120. | 130. | 140. | 150. | 160. |
| 1000 | 51.4 | 55.6 | 58.4 | 61.1 | 63.3 | 64.8 | 66.3 | 68.9 | 69.7 | 69.0 | 65.7 | 62.5 | 52.4 | 120. | 130. | 140. | 150. | 160. |
| 1250 | 50.2 | 54.4 | 58.0 | 60.6 | 62.2 | 64.0 | 65.2 | 67.6 | 68.5 | 67.0 | 63.8 | 60.7 | 51.2 | 120. | 130. | 140. | 150. | 160. |
| 1600 | 48.2 | 53.2 | 56.4 | 59.3 | 62.3 | 63.8 | 65.8 | 67.4 | 65.3 | 61.9 | 58.4 | 50.5 | 47.5 | 120. | 130. | 140. | 150. | 160. |
| 2000 | 41.3 | 48.5 | 51.7 | 55.3 | 58.6 | 59.5 | 61.9 | 63.1 | 64.0 | 60.7 | 56.0 | 53.2 | 43.2 | 120. | 130. | 140. | 150. | 160. |
| 2500 | 35.9 | 43.0 | 47.9 | 51.7 | 55.1 | 56.7 | 59.4 | 58.8 | 59.1 | 56.3 | 51.3 | 47.5 | 35.6 | 120. | 130. | 140. | 150. | 160. |
| 3150 | 29.8 | 37.4 | 42.0 | 47.4 | 51.3 | 52.5 | 55.0 | 53.7 | 54.8 | 50.3 | 44.8 | 39.3 | 24.4 | 120. | 130. | 140. | 150. | 160. |
| 4000 | 19.3 | 28.0 | 34.7 | 39.3 | 44.9 | 45.4 | 48.6 | 45.8 | 46.5 | 41.1 | 34.1 | 26.9 | 6.9 | 120. | 130. | 140. | 150. | 160. |
| 5000 | 12.9 | 23.9 | 29.8 | 34.3 | 39.0 | 40.2 | 41.8 | 40.9 | 41.8 | 34.6 | 28.2 | 16.5 | | 120. | 130. | 140. | 150. | 160. |
| 6300 | 12.0 | 20.1 | 25.5 | 30.2 | 31.3 | 33.4 | 30.3 | 29.1 | 21.6 | 11.9 | | | | 120. | 130. | 140. | 150. | 160. |
| 8000 | | 5.1 | 10.5 | 14.9 | 16.8 | 19.4 | 15.2 | 11.1 | | | | | | 120. | 130. | 140. | 150. | 160. |
| 10000 | | | | | | | | | | | | | | 120. | 130. | 140. | 150. | 160. |
| 12500 | | | | | | | | | | | | | | 120. | 130. | 140. | 150. | 160. |
| 16000 | | | | | | | | | | | | | | 120. | 130. | 140. | 150. | 160. |
| PNDB | 65.2 | 69.0 | 71.6 | 73.6 | 75.8 | 77.2 | 78.5 | 80.6 | 82.6 | 84.1 | 84.5 | 83.5 | 78.2 | | | | | |
| OVERALL CALCULATED | 68.9 | 73.3 | 76.7 | 79.1 | 82.0 | 83.5 | 85.2 | 86.5 | 87.9 | 88.0 | 86.5 | 83.8 | 76.2 | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 775 R ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 7 HR. 13.5
 ANGLES FROM INLET IN DEGREES (ADJ RADIANS)

MODEL SOUND PRESSURE LEVELS (59. DEG. F / 70 PERCENT REL. HUM. DAY - JEROTS)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. P=L
 FREQ. (C.75)(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.) (3.) (3.)
 SC 50 53 80

| RDG. NO. | NO EGA | 0. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. | P=L |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|----|-----|
| 100 | 79.1 | 88.2 | 85.6 | 87.7 | 89.3 | 89.0 | 89.3 | 90.0 | 91.2 | 93.0 | 96.7 | 97.1 | 99.7 | 134.2 | | | | | | | |
| 125 | 78.1 | 82.9 | 83.9 | 85.9 | 87.7 | 88.9 | 89.7 | 91.2 | 89.9 | 89.7 | 89.7 | 97.6 | 99.8 | 134.7 | | | | | | | |
| 160 | 78.9 | 81.4 | 84.9 | 85.0 | 86.5 | 85.9 | 85.8 | 88.5 | 89.4 | 89.4 | 89.4 | 101.1 | 102.7 | 135.9 | | | | | | | |
| 200 | 81.5 | 81.8 | 83.3 | 85.1 | 86.4 | 87.3 | 87.9 | 90.8 | 93.5 | 97.4 | 101.6 | 105.8 | 106.8 | 139.4 | | | | | | | |
| 250 | 80.6 | 83.3 | 85.1 | 85.6 | 86.7 | 87.8 | 90.2 | 92.4 | 94.6 | 95.2 | 103.1 | 107.5 | 108.3 | 141.4 | | | | | | | |
| 315 | 81.7 | 86.2 | 84.9 | 87.0 | 89.3 | 90.4 | 91.6 | 93.7 | 97.4 | 101.6 | 107.7 | 110.4 | 110.2 | 143.6 | | | | | | | |
| 400 | 84.2 | 85.5 | 87.2 | 87.5 | 89.3 | 90.7 | 91.8 | 94.8 | 96.7 | 104.8 | 110.0 | 111.7 | 110.7 | 145.4 | | | | | | | |
| 500 | 85.0 | 85.5 | 87.3 | 88.1 | 89.7 | 91.5 | 92.7 | 96.1 | 99.8 | 106.4 | 111.1 | 112.5 | 110.8 | 146.4 | | | | | | | |
| 630 | 85.6 | 87.1 | 87.6 | 89.7 | 91.0 | 92.9 | 94.5 | 97.2 | 100.9 | 106.5 | 110.4 | 112.6 | 111.1 | 146.3 | | | | | | | |
| 800 | 87.1 | 88.2 | 89.2 | 90.9 | 92.0 | 94.2 | 95.3 | 98.4 | 102.4 | 107.5 | 110.4 | 112.4 | 111.2 | 148.3 | | | | | | | |
| 1000 | 89.2 | 90.5 | 91.5 | 92.3 | 93.6 | 95.0 | 96.4 | 99.3 | 103.0 | 107.3 | 108.5 | 110.9 | 110.2 | 146.6 | | | | | | | |
| 1250 | 89.0 | 90.3 | 91.3 | 92.6 | 94.0 | 95.6 | 96.7 | 99.9 | 103.3 | 107.7 | 107.9 | 110.5 | 109.8 | 145.7 | | | | | | | |
| 1600 | 88.9 | 90.4 | 90.9 | 93.2 | 94.8 | 96.2 | 97.3 | 99.7 | 103.9 | 107.3 | 108.5 | 111.4 | 110.9 | 145.5 | | | | | | | |
| 2000 | 89.7 | 90.7 | 92.2 | 92.8 | 94.9 | 96.0 | 98.1 | 101.3 | 104.5 | 106.8 | 107.8 | 111.7 | 110.2 | 146.1 | | | | | | | |
| 2500 | 89.5 | 90.3 | 91.6 | 93.1 | 94.5 | 96.1 | 98.2 | 101.1 | 104.6 | 106.2 | 108.1 | 111.8 | 109.1 | 146.0 | | | | | | | |
| 3150 | 90.3 | 91.1 | 92.8 | 93.9 | 95.7 | 96.3 | 98.2 | 101.6 | 105.1 | 106.4 | 108.9 | 111.8 | 107.0 | 146.1 | | | | | | | |
| 4000 | 89.0 | 89.8 | 91.4 | 92.6 | 94.5 | 96.1 | 98.0 | 101.9 | 104.4 | 105.7 | 107.9 | 109.3 | 105.1 | 144.9 | | | | | | | |
| 5000 | 88.7 | 90.0 | 91.0 | 93.5 | 94.6 | 96.5 | 98.1 | 101.0 | 104.0 | 105.1 | 107.3 | 107.9 | 105.0 | 144.3 | | | | | | | |
| 6300 | 87.5 | 89.8 | 90.6 | 92.6 | 94.9 | 96.8 | 98.9 | 100.6 | 103.8 | 103.7 | 106.4 | 107.5 | 104.8 | 143.9 | | | | | | | |
| 8000 | 87.5 | 89.3 | 90.4 | 92.4 | 94.7 | 96.3 | 98.7 | 100.9 | 103.4 | 103.5 | 105.4 | 106.8 | 104.1 | 143.7 | | | | | | | |
| 10000 | 84.9 | 88.5 | 89.5 | 91.6 | 94.4 | 94.5 | 97.9 | 100.1 | 102.3 | 102.2 | 103.4 | 106.0 | 103.5 | 142.9 | | | | | | | |
| 12500 | 82.8 | 86.0 | 88.4 | 90.3 | 92.7 | 93.5 | 95.2 | 97.7 | 99.9 | 99.6 | 101.0 | 104.3 | 101.8 | 141.3 | | | | | | | |
| 16000 | 81.3 | 84.6 | 86.5 | 89.4 | 91.7 | 92.6 | 95.5 | 95.7 | 99.2 | 97.5 | 95.8 | 103.1 | 100.8 | 140.7 | | | | | | | |
| 20000 | 78.2 | 81.8 | 83.6 | 86.0 | 90.3 | 89.9 | 93.5 | 92.3 | 95.6 | 93.6 | 95.5 | 99.2 | 97.4 | 138.5 | | | | | | | |
| 25000 | 75.2 | 79.2 | 80.9 | 82.7 | 85.7 | 86.6 | 87.9 | 89.1 | 92.1 | 90.0 | 93.3 | 94.9 | 94.3 | 136.3 | | | | | | | |
| 31500 | 72.4 | 76.5 | 79.4 | 81.3 | 83.6 | 83.6 | 85.0 | 85.9 | 88.0 | 86.9 | 89.2 | 94.4 | 91.1 | 135.9 | | | | | | | |
| 40000 | 68.5 | 72.3 | 76.3 | 77.2 | 78.5 | 78.5 | 78.5 | 81.1 | 83.6 | 83.2 | 85.5 | 90.5 | 87.5 | 135.0 | | | | | | | |
| 50000 | 63.8 | 66.8 | 70.7 | 71.1 | 70.9 | 72.0 | 72.8 | 73.0 | 76.8 | 76.4 | 79.1 | 82.9 | 80.6 | 132.1 | | | | | | | |
| 63000 | 59.4 | 61.3 | 66.5 | 65.0 | 64.6 | 64.8 | 65.1 | 65.8 | 69.6 | 71.1 | 74.4 | 76.0 | 74.3 | 132.3 | | | | | | | |
| 80000 | 56.1 | 58.5 | 64.8 | 61.3 | 60.5 | 60.9 | 61.8 | 62.4 | 64.8 | 66.7 | 69.4 | 71.3 | 72.4 | 137.8 | | | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 100.3 | 102.0 | 103.3 | 104.7 | 106.6 | 107.6 | 109.7 | 112.3 | 115.5 | 116.2 | 120.9 | 123.2 | 121.8 | | | | | | | | |
| PWDB | 113.4 | 114.8 | 116.2 | 117.5 | 119.2 | 120.3 | 122.1 | 125.2 | 128.3 | 130.4 | 133.0 | 135.5 | 133.1 | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 776 R ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F. 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | PWL |
|--------------------|--|-------|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | |
| 50 | 82.4 | 85.2 | 86.9 | 87.5 | 88.5 | 154.3 |
| 63 | 83.5 | 88.0 | 86.8 | 82.8 | 91.2 | 157.2 |
| 80 | 86.0 | 87.3 | 89.1 | 89.3 | 91.2 | 158.8 |
| 100 | 86.9 | 87.4 | 89.1 | 89.9 | 91.5 | 159.6 |
| 125 | 87.5 | 89.0 | 89.5 | 91.5 | 92.9 | 159.9 |
| 160 | 89.0 | 90.0 | 91.0 | 92.8 | 93.9 | 159.0 |
| 200 | 91.1 | 92.3 | 93.3 | 94.1 | 95.5 | 159.9 |
| 250 | 90.9 | 92.2 | 94.2 | 94.5 | 95.8 | 158.9 |
| 315 | 90.8 | 92.3 | 92.8 | 95.1 | 96.7 | 159.3 |
| 400 | 91.6 | 92.6 | 94.1 | 96.7 | 97.8 | 159.2 |
| 500 | 91.4 | 92.2 | 93.5 | 95.0 | 96.3 | 159.4 |
| 630 | 92.2 | 93.0 | 94.7 | 95.8 | 97.6 | 157.6 |
| 800 | 91.0 | 91.8 | 93.3 | 94.6 | 96.4 | 157.2 |
| 1000 | 90.6 | 91.9 | 93.0 | 95.5 | 96.6 | 156.2 |
| 1250 | 89.5 | 91.3 | 92.6 | 94.7 | 97.0 | 154.0 |
| 1600 | 89.7 | 91.5 | 92.6 | 94.6 | 96.9 | 151.8 |
| 2000 | 87.3 | 90.9 | 92.3 | 94.0 | 96.3 | 149.6 |
| 2500 | 85.6 | 88.8 | 91.2 | 93.1 | 95.4 | 148.3 |
| 3150 | 84.7 | 87.9 | 89.8 | 92.8 | 95.1 | 145.5 |
| 4000 | 82.3 | 85.8 | 87.7 | 90.1 | 94.3 | 145.6 |
| 5000 | 80.6 | 84.6 | 86.2 | 88.0 | 91.0 | 151.2 |
| 6300 | 79.4 | 83.4 | 86.3 | 89.3 | 90.6 | 149.6 |
| 8000 | 77.8 | 81.5 | 85.0 | 86.4 | 87.3 | 149.3 |
| 10000 | 76.1 | 79.1 | 83.0 | 83.4 | 84.3 | 148.3 |
| 12500 | 76.2 | 78.0 | 83.3 | 81.8 | 81.5 | 145.5 |
| 16000 | 79.4 | 81.6 | 87.9 | 84.4 | 83.6 | 145.6 |
| PNDB | 111.8 | 114.4 | 116.2 | 118.1 | 120.3 | 171.2 |
| OVERALL CALCULATED | 102.3 | 103.9 | 105.3 | 106.7 | 108.6 | 123.5 |
| | 121.3 | 123.7 | 125.2 | 128.8 | 130.8 | 131.6 |

NO EGA

RDG. NO. 0.

RADIAL 150. FT.

(46. M)

VEHICLE CELL41

CONFIG MC58

LOC C41 ANECH CH

DATE 06-16-76

RUN CONF7REPEATH

TAPE X07760

BAR 29.3 HG

(98942. N/M2)

TAMB 75. DEG F

(297. DEG K)

TWET 68. DEG F

(293. DEG K)

HACT15.55 GM/M3

(.01555 KG/M3)

FREQ. SHIFT

JET 7

DIAMETER RATIO

DF/DM 4.63

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 776R ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 7 HR. 17.0

| | | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--------------------|--|---|--------|--------|--------|--------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | | FROM INLET IN DEGREES (AND RADIAN) | | | | | FROM INLET IN DEGREES (AND RADIAN) | | | | | | | |
| | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| | | (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. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. |
| FREQ. | | 50 | 54.2 | 58.6 | 61.4 | 62.7 | 64.2 | 65.4 | 67.7 | 69.4 | 70.7 | 73.7 | 76.9 | 81.3 |
| | | 63 | 55.2 | 61.4 | 61.2 | 64.0 | 66.7 | 68.0 | 69.0 | 70.7 | 73.7 | 76.9 | 81.3 | 81.7 |
| | | 80 | 57.7 | 60.6 | 63.4 | 64.4 | 66.7 | 68.2 | 69.2 | 71.7 | 74.9 | 79.9 | 83.5 | 82.9 |
| | | 100 | 58.4 | 60.6 | 63.4 | 65.0 | 67.0 | 69.0 | 70.0 | 73.0 | 75.9 | 81.4 | 84.5 | 83.6 |
| | | 125 | 58.9 | 62.0 | 63.7 | 66.5 | 68.2 | 70.2 | 71.7 | 74.0 | 76.9 | 81.4 | 83.7 | 83.5 |
| | | 160 | 60.2 | 62.9 | 65.1 | 67.6 | 69.1 | 71.4 | 72.4 | 75.1 | 78.3 | 82.2 | 83.5 | 83.0 |
| | | 200 | 62.1 | 65.1 | 67.3 | 68.8 | 70.6 | 72.1 | 73.3 | 75.8 | 78.8 | 81.9 | 81.4 | 81.4 |
| | | 250 | 61.7 | 64.7 | 67.9 | 69.0 | 70.8 | 72.8 | 73.5 | 76.2 | 78.9 | 82.0 | 80.5 | 80.6 |
| | | 315 | 61.2 | 64.5 | 66.3 | 69.4 | 71.4 | 72.9 | 73.9 | 75.9 | 79.3 | 81.4 | 80.8 | 81.0 |
| | | 400 | 61.6 | 64.5 | 67.3 | 68.6 | 71.2 | 72.5 | 74.4 | 77.1 | 79.5 | 80.6 | 79.6 | 80.8 |
| | | 500 | 60.9 | 63.7 | 66.3 | 68.6 | 70.5 | 72.2 | 74.2 | 76.6 | 79.3 | 79.5 | 79.5 | 80.2 |
| | | 630 | 61.0 | 63.8 | 67.0 | 68.9 | 71.3 | 72.1 | 73.8 | 76.7 | 79.3 | 79.2 | 79.6 | 79.3 |
| | | 800 | 58.9 | 61.9 | 64.9 | 67.2 | 69.5 | 71.3 | 73.0 | 76.4 | 77.9 | 77.8 | 77.8 | 75.7 |
| | | 1000 | 57.4 | 61.2 | 63.8 | 67.3 | 69.0 | 71.1 | 72.5 | 74.8 | 75.8 | 76.3 | 76.1 | 73.0 |
| | | 1250 | 55.0 | 59.9 | 62.5 | 65.6 | 68.5 | 70.6 | 72.5 | 73.6 | 75.7 | 73.8 | 73.9 | 70.9 |
| | | 1600 | 53.2 | 58.0 | 61.0 | 64.2 | 67.3 | 69.1 | 71.3 | 72.7 | 74.0 | 72.2 | 71.2 | 67.8 |
| | | 2000 | 48.5 | 55.5 | 59.0 | 62.1 | 65.7 | 66.0 | 69.2 | 70.6 | 71.5 | 69.2 | 67.0 | 64.2 |
| | | 2500 | 43.4 | 50.6 | 55.4 | 59.0 | 62.2 | 63.3 | 65.7 | 66.4 | 69.9 | 64.4 | 61.6 | 58.5 |
| | | 3150 | 37.1 | 45.2 | 50.2 | 55.0 | 58.3 | 59.5 | 62.1 | 61.3 | 62.9 | 58.1 | 54.7 | 50.9 |
| | | 4000 | 26.7 | 36.4 | 42.1 | 46.9 | 52.4 | 52.4 | 55.7 | 53.2 | 54.1 | 48.2 | 44.0 | 37.2 |
| | | 5000 | 20.3 | 31.2 | 37.2 | 41.7 | 46.1 | 47.6 | 48.4 | 48.4 | 42.0 | 38.4 | 28.1 | 15.0 |
| | | 6300 | 5.3 | 18.6 | 27.2 | 32.7 | 36.9 | 37.5 | 39.3 | 37.2 | 36.5 | 29.1 | 22.0 | 4.2 |
| | | 8000 | | 11.1 | 16.7 | 20.5 | 21.5 | 23.4 | 20.7 | 19.4 | 10.1 | | | |
| | | 10000 | | | | | | | | | | | | |
| | | 12500 | | | | | | | | | | | | |
| | | 16000 | | | | | | | | | | | | |
| OVERALL CALCULATED | | 71.5 | 74.7 | 77.2 | 79.4 | 81.5 | 83.2 | 84.7 | 87.1 | 89.6 | 91.8 | 92.9 | 92.7 | 87.5 |
| PHDB | | 75.8 | 79.8 | 82.9 | 85.7 | 88.6 | 90.1 | 92.0 | 93.7 | 95.6 | 96.3 | 96.1 | 95.7 | 88.8 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 776 R ACUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (SP. DEG. F. 70 PERCENT REL. HUM. DAY - MONTH 9 DAY 7 HR. 13.5
 ANGLES FROM INLET IN DEGREES (AND RADIAN))

FREQ. (C.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)(3.0)(3.3)(3.6)(4.0) PHL
 40. 50. 60. 75. 90. 100. 110. 120. 130. 140. 150. 160. 0. C. 3. 0. PHL
 50

| RDG. NO. | NO EGA | 40. | 50. | 60. | 75. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | C. | 3. | 0. | PHL |
|--|--------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
| 100 | 80.9 | 89.7 | 87.7 | 89.5 | 91.0 | 90.7 | 91.0 | 92.2 | 93.2 | 94.7 | 96.2 | 98.1 | 100.4 | | | | | 135.6 |
| 125 | 20.1 | 83.9 | 85.1 | 87.7 | 89.5 | 91.4 | 91.7 | 93.2 | 91.6 | 93.4 | 99.6 | 101.6 | 102.4 | | | | | 136.5 |
| 160 | 79.9 | 63.4 | 86.5 | 87.3 | 87.3 | 87.4 | 87.5 | 89.5 | 91.7 | 96.2 | 101.7 | 103.1 | 104.7 | | | | | 137.9 |
| 200 | 83.5 | 83.5 | 84.5 | 87.1 | 87.0 | 88.8 | 85.9 | 92.3 | 95.3 | 95.9 | 103.3 | 107.5 | 106.5 | | | | | 141.1 |
| 250 | 82.1 | 84.8 | 85.6 | 87.1 | 88.0 | 89.6 | 92.0 | 94.1 | 96.1 | 101.4 | 107.6 | 109.3 | 110.1 | | | | | 143.6 |
| 315 | 83.7 | 87.9 | 86.4 | 88.5 | 90.8 | 91.9 | 93.0 | 95.0 | 97.9 | 103.3 | 109.2 | 112.4 | 111.9 | | | | | 145.6 |
| 400 | 86.2 | 87.0 | 89.5 | 89.3 | 90.8 | 91.7 | 93.3 | 96.5 | 100.2 | 108.5 | 111.7 | 114.2 | 112.7 | | | | | 147.5 |
| 500 | 86.3 | 86.8 | 89.0 | 89.6 | 91.2 | 93.0 | 93.7 | 96.8 | 101.0 | 108.4 | 113.1 | 115.0 | 113.3 | | | | | 148.5 |
| 630 | 87.4 | 89.9 | 89.4 | 91.2 | 93.0 | 94.4 | 96.0 | 98.7 | 102.4 | 108.5 | 112.7 | 115.1 | 113.4 | | | | | 148.6 |
| 800 | 89.6 | 90.4 | 90.7 | 92.4 | 94.0 | 95.2 | 96.8 | 99.9 | 104.4 | 109.2 | 112.7 | 114.9 | 113.7 | | | | | 148.8 |
| 1000 | 91.5 | 92.7 | 93.7 | 94.8 | 95.1 | 96.0 | 97.9 | 100.8 | 104.7 | 109.3 | 111.3 | 113.7 | 113.5 | | | | | 148.2 |
| 1250 | 91.0 | 92.3 | 94.3 | 94.6 | 95.7 | 97.1 | 98.2 | 101.9 | 105.8 | 108.9 | 110.4 | 114.8 | 113.8 | | | | | 148.5 |
| 1600 | 91.4 | 92.7 | 94.7 | 94.7 | 96.3 | 97.7 | 98.6 | 101.5 | 106.4 | 109.3 | 111.0 | 114.4 | 113.4 | | | | | 148.5 |
| 2000 | 91.9 | 93.0 | 94.5 | 95.0 | 96.6 | 97.7 | 99.5 | 103.0 | 106.7 | 108.8 | 111.0 | 116.4 | 112.7 | | | | | 148.5 |
| 2500 | 92.3 | 92.6 | 94.3 | 95.1 | 97.2 | 97.3 | 99.5 | 103.1 | 106.8 | 107.9 | 111.6 | 114.0 | 110.8 | | | | | 148.2 |
| 3150 | 92.3 | 93.3 | 94.6 | 95.6 | 97.2 | 98.0 | 99.7 | 103.8 | 107.6 | 108.7 | 112.9 | 113.3 | 109.3 | | | | | 148.5 |
| 4000 | 91.3 | 92.3 | 94.1 | 94.9 | 97.0 | 97.6 | 99.2 | 103.9 | 105.9 | 107.9 | 111.4 | 116.6 | 106.8 | | | | | 147.0 |
| 5000 | 91.1 | 93.0 | 94.0 | 95.0 | 96.6 | 98.0 | 99.8 | 103.8 | 106.5 | 107.3 | 111.0 | 109.7 | 106.5 | | | | | 146.8 |
| 6300 | 90.4 | 92.5 | 93.6 | 95.3 | 97.2 | 98.8 | 100.7 | 103.1 | 106.1 | 106.7 | 110.1 | 109.3 | 106.3 | | | | | 146.5 |
| 8000 | 89.7 | 92.5 | 93.9 | 95.4 | 97.7 | 98.5 | 101.2 | 103.1 | 105.4 | 106.7 | 108.4 | 107.5 | 106.3 | | | | | 146.0 |
| 10000 | 87.6 | 91.2 | 93.0 | 94.5 | 97.3 | 97.7 | 99.8 | 102.5 | 105.0 | 105.2 | 107.6 | 107.5 | 105.2 | | | | | 145.5 |
| 12500 | 85.2 | 89.7 | 91.3 | 93.5 | 95.3 | 96.5 | 99.8 | 100.4 | 102.8 | 103.0 | 105.4 | 106.0 | 104.0 | | | | | 144.2 |
| 16000 | 83.7 | 87.7 | 89.9 | 92.1 | 94.6 | 95.4 | 98.6 | 98.6 | 101.6 | 101.6 | 103.2 | 104.5 | 103.2 | | | | | 143.6 |
| 20000 | 80.9 | 85.1 | 87.0 | 89.1 | 93.1 | 93.2 | 96.4 | 95.2 | 98.7 | 97.7 | 99.6 | 101.1 | 100.2 | | | | | 141.5 |
| 25000 | 78.3 | 82.6 | 84.4 | 86.0 | 89.0 | 89.7 | 91.7 | 92.6 | 96.2 | 94.2 | 94.3 | 96.7 | 96.8 | | | | | 139.9 |
| 31500 | 75.2 | 80.4 | 83.3 | 84.5 | 87.3 | 87.3 | 90.5 | 89.8 | 93.1 | 91.6 | 94.3 | 96.3 | 94.8 | | | | | 139.7 |
| 40000 | 70.4 | 75.6 | 79.4 | 80.0 | 82.1 | 83.1 | 85.8 | 83.9 | 88.6 | 89.1 | 91.7 | 92.0 | 91.1 | | | | | 139.0 |
| 50000 | 64.3 | 69.0 | 73.5 | 73.4 | 73.5 | 77.2 | 78.4 | 77.1 | 82.1 | 83.9 | 86.9 | 85.8 | 83.5 | | | | | 137.2 |
| 63000 | 58.7 | 61.4 | 67.3 | 69.2 | 66.2 | 71.2 | 71.7 | 69.7 | 76.1 | 79.0 | 81.4 | 77.6 | 76.9 | | | | | 137.4 |
| 80000 | 55.1 | 57.6 | 64.2 | 60.8 | 60.6 | 69.2 | 69.9 | 62.5 | 72.8 | 77.2 | 77.2 | 73.3 | 72.0 | | | | | 143.4 |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 102.6 104.4 105.6 106.9 108.7 109.7 111.6 114.4 117.7 120.3 123.7 125.6 124.1 | | | | | | | | | | | | | | | | | | |
| PNDB 115.6 117.1 118.3 119.4 121.1 122.0 123.7 127.2 130.6 132.6 130.3 137.4 135.1 | | | | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 777R ACUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-154cm²(23.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | | PROG. DATE - MONTH 9 DAY 7 HR. 17.6 | REL. HUM. | DAY | JENOTS | | | |
|-------|---------------------------------|-------|-------|-------|-------|-------|-------------------------------------|-----------|-------|--------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | | | | | | | |
| 50 | 83.9 | 86.7 | 88.4 | 89.0 | 89.8 | 90.0 | 110. | 120. | 130. | 140. | 150. | 160. | |
| 63 | 85.5 | 89.8 | 89.8 | 90.3 | 92.7 | 93.8 | 94.9 | 96.8 | 99.8 | 105.1 | 111.0 | 114.2 | 113.8 |
| 80 | 88.0 | 88.8 | 91.3 | 91.1 | 92.7 | 93.5 | 95.2 | 98.3 | 102.1 | 108.4 | 113.6 | 116.0 | 114.5 |
| 100 | 88.1 | 88.6 | 90.9 | 91.4 | 93.0 | 94.9 | 95.5 | 98.7 | 102.9 | 110.2 | 114.9 | 116.8 | 115.1 |
| 125 | 89.2 | 90.7 | 91.2 | 93.0 | 94.9 | 96.2 | 97.9 | 100.5 | 104.2 | 110.3 | 114.5 | 116.9 | 115.2 |
| 160 | 91.5 | 92.2 | 92.5 | 94.3 | 95.9 | 97.0 | 97.8 | 99.7 | 102.6 | 106.6 | 111.2 | 113.1 | 115.5 |
| 200 | 93.3 | 94.6 | 95.6 | 95.9 | 97.0 | 97.8 | 98.9 | 100.1 | 103.7 | 107.7 | 110.8 | 112.2 | 115.7 |
| 250 | 92.9 | 94.2 | 96.2 | 96.5 | 97.6 | 98.9 | 100.4 | 103.3 | 108.3 | 111.1 | 112.8 | 116.2 | 115.3 |
| 315 | 93.2 | 94.5 | 94.8 | 96.6 | 98.2 | 99.5 | 101.5 | 104.9 | 108.6 | 110.7 | 112.9 | 116.3 | 114.6 |
| 400 | 93.8 | 94.8 | 96.3 | 96.9 | 98.5 | 99.6 | 101.3 | 105.0 | 108.7 | 109.8 | 113.5 | 115.9 | 112.7 |
| 500 | 94.2 | 94.5 | 96.2 | 97.0 | 99.1 | 100.0 | 101.6 | 105.8 | 109.5 | 110.6 | 114.8 | 115.2 | 111.0 |
| 630 | 94.2 | 94.3 | 96.1 | 96.8 | 98.9 | 99.5 | 101.2 | 105.8 | 107.8 | 109.9 | 113.4 | 112.5 | 108.8 |
| 800 | 93.1 | 94.9 | 96.0 | 97.5 | 98.6 | 99.9 | 101.8 | 105.7 | 108.5 | 109.3 | 113.0 | 111.7 | 108.4 |
| 1000 | 92.5 | 94.6 | 95.6 | 97.4 | 99.2 | 100.8 | 102.7 | 105.1 | 108.1 | 108.7 | 112.2 | 111.3 | 108.3 |
| 1250 | 91.9 | 94.8 | 96.1 | 97.6 | 99.9 | 100.8 | 103.4 | 105.3 | 107.6 | 108.9 | 110.6 | 109.8 | 108.5 |
| 1600 | 90.3 | 93.7 | 95.5 | 97.0 | 99.8 | 100.2 | 102.3 | 105.0 | 107.5 | 107.6 | 110.0 | 109.9 | 107.7 |
| 2000 | 88.0 | 92.5 | 94.1 | 96.3 | 98.1 | 99.2 | 102.6 | 103.2 | 105.6 | 105.8 | 108.2 | 108.9 | 106.7 |
| 2500 | 87.1 | 91.1 | 92.2 | 95.4 | 98.0 | 98.8 | 101.7 | 102.0 | 105.0 | 104.2 | 106.6 | 107.9 | 106.6 |
| 3150 | 84.9 | 89.2 | 91.0 | 93.2 | 97.2 | 97.3 | 100.4 | 99.2 | 102.8 | 101.8 | 103.7 | 105.1 | 104.3 |
| 4000 | 83.7 | 88.1 | 89.7 | 91.3 | 94.3 | 95.0 | 97.1 | 97.9 | 101.5 | 99.6 | 103.7 | 102.1 | 102.2 |
| 5000 | 82.1 | 87.4 | 90.2 | 91.5 | 94.3 | 94.2 | 97.4 | 96.7 | 100.0 | 98.5 | 101.3 | 103.2 | 101.7 |
| 6300 | 79.7 | 84.9 | 88.6 | 89.2 | 91.3 | 92.4 | 95.1 | 93.2 | 97.9 | 98.4 | 101.0 | 101.3 | 100.4 |
| 8000 | 76.6 | 81.3 | 85.9 | 85.7 | 86.1 | 89.5 | 90.7 | 89.4 | 94.4 | 96.2 | 99.2 | 98.1 | 95.8 |
| 10000 | 75.5 | 78.2 | 84.1 | 82.9 | 83.0 | 88.5 | 86.5 | 86.5 | 92.9 | 95.8 | 98.2 | 94.3 | 93.7 |
| 12500 | 78.2 | 80.7 | 87.4 | 83.9 | 83.7 | 92.3 | 93.0 | 85.6 | 95.9 | 100.4 | 100.3 | 96.5 | 95.1 |
| 16000 | 104.6 | 106.3 | 107.7 | 108.9 | 110.9 | 111.9 | 115.9 | 116.5 | 119.8 | 122.3 | 125.6 | 127.4 | 125.9 |
| PN08 | 114.3 | 117.4 | 119.0 | 120.7 | 122.9 | 123.8 | 126.3 | 127.7 | 130.8 | 131.7 | 134.5 | 135.6 | 134.0 |

RDG. NO. 0

RADIAL 150. FT.

(46. M)

VEHICLE CELL41

CONFLG NC58

L0C C41 ANECH CH

DATE 06-16-76

RUN CONFPREPEATH

TAPE 29.3 HG

BAR (98874. N/M2)

TAMB 71. DEG F

(295. DEG K)

TWET 68. DEG F

(293. DEG K)

HACT16.56 GM/M3

(.01656 KG/M3)

FREQ. SHIFT

JET 7

DIAMETER RATIO

DF/DM 4.63

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 777 R ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| NO. EGA
SIDELINE 2400. FT.
(731.52 M) | NFA
(0. RPM) | NFK
(0. RAD/SEC) | NFD
(0. RAD/SEC) | AIRFLOW RATIO
WF/WM 4.63 | VEHICLE
CONFIG CELL41
NC58 | LOC C41 ANECH CH | DATE 06-16-76 | RUN CONF7REPEATH | TAPE X07770 | FAN TIP SPEED
FT/SEC | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (SP. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | |
|---|------------------|----------------------|----------------------|-----------------------------|----------------------------------|------------------|---------------|------------------|-------------|-------------------------|---|---------------------------------------|---------------------------------------|---------------------------------|---------------------------|
| | | | | | | | | | | | FREQ.
(0.70)(0.87)(1.05)(1.22)(1.40) | 40.
(0.57)(0.70)(0.87)(1.05)(1.22) | 50.
(0.70)(0.87)(1.05)(1.22)(1.40) | 60.
(0.87)(1.05)(1.22)(1.40) | 70.
(1.05)(1.22)(1.40) |
| 50 | 55.7 | 60.1 | 62.9 | 64.2 | 65.4 | 67.2 | 69.4 | 71.2 | 72.4 | 76.6 | 81.3 | 81.2 | 78.0 | | |
| 60 | 59.7 | 62.1 | 65.7 | 66.2 | 68.2 | 69.2 | 70.7 | 73.4 | 76.4 | 81.6 | 85.2 | 85.4 | 80.4 | | |
| 100 | 59.7 | 61.8 | 65.2 | 66.5 | 68.5 | 70.5 | 71.0 | 73.7 | 77.2 | 83.4 | 86.5 | 86.0 | 80.7 | | |
| 125 | 60.6 | 63.8 | 65.4 | 68.0 | 70.2 | 71.7 | 73.2 | 75.5 | 78.4 | 83.4 | 85.9 | 86.0 | 80.6 | | |
| 160 | 62.7 | 65.2 | 66.6 | 69.1 | 71.1 | 72.4 | 73.9 | 76.6 | 80.1 | 84.0 | 85.8 | 85.5 | 80.5 | | |
| 200 | 64.3 | 67.3 | 69.5 | 70.6 | 72.5 | 74.0 | 75.0 | 78.2 | 81.4 | 83.3 | 84.1 | 80.0 | 80.0 | | |
| 250 | 63.7 | 66.7 | 69.9 | 71.0 | 72.5 | 74.0 | 75.0 | 78.2 | 81.4 | 83.3 | 84.1 | 80.0 | 80.0 | | |
| 315 | 63.8 | 66.8 | 68.3 | 70.9 | 72.9 | 74.4 | 75.2 | 77.6 | 81.3 | 83.4 | 84.0 | 78.8 | 78.8 | | |
| 400 | 63.6 | 66.7 | 69.5 | 70.9 | 72.9 | 74.2 | 75.9 | 78.9 | 81.5 | 82.6 | 82.9 | 83.5 | 77.2 | | |
| 500 | 63.6 | 65.9 | 69.0 | 70.6 | 73.2 | 74.0 | 75.5 | 78.6 | 81.8 | 82.6 | 82.5 | 74.3 | 74.3 | | |
| 630 | 63.0 | 66.1 | 68.6 | 70.7 | 72.8 | 73.8 | 75.3 | 78.9 | 81.4 | 83.6 | 80.3 | 71.3 | 71.3 | | |
| 800 | 61.1 | 64.4 | 67.7 | 69.4 | 72.0 | 72.8 | 74.3 | 78.4 | 79.4 | 80.0 | 81.2 | 77.0 | 67.4 | | |
| 1000 | 59.9 | 64.1 | 66.8 | 69.3 | 71.0 | 72.5 | 74.2 | 77.6 | 79.3 | 78.5 | 79.8 | 74.7 | 64.9 | | |
| 1250 | 58.0 | 62.7 | 65.5 | 68.3 | 70.8 | 72.6 | 74.3 | 76.1 | 78.0 | 76.8 | 77.6 | 72.6 | 62.2 | | |
| 1600 | 55.4 | 61.2 | 64.5 | 67.2 | 70.2 | 71.3 | 73.7 | 75.0 | 75.0 | 75.4 | 74.1 | 68.5 | 58.7 | | |
| 2000 | 51.5 | 56.2 | 60.2 | 65.1 | 68.6 | 69.2 | 71.1 | 73.1 | 73.1 | 73.1 | 72.2 | 71.2 | 65.7 | | |
| 2500 | 45.9 | 54.3 | 58.4 | 62.2 | 64.8 | 66.2 | 69.3 | 69.1 | 69.9 | 67.5 | 66.0 | 60.2 | 46.1 | | |
| 3150 | 39.5 | 48.3 | 52.6 | 57.6 | 61.2 | 62.4 | 65.0 | 64.2 | 65.3 | 61.5 | 59.0 | 52.3 | 35.6 | | |
| 4000 | 29.3 | 39.7 | 45.4 | 50.0 | 55.3 | 55.8 | 58.6 | 56.0 | 57.2 | 52.3 | 48.1 | 39.1 | 17.8 | | |
| 5000 | 23.4 | 34.8 | 40.7 | 45.0 | 49.4 | 41.2 | 43.8 | 41.2 | 43.8 | 41.2 | 40.9 | 33.7 | 27.2 | | |
| 8000 | 8.1 | 22.6 | 31.1 | 35.9 | 40.6 | 26.1 | 28.0 | 23.5 | 23.4 | 16.0 | 5.9 | 5.9 | 5.9 | | |
| 10000 | | 2.5 | 14.1 | 19.5 | 24.2 | 4.7 | 4.8 | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 73.7 | 76.9 | 79.4 | 81.3 | 83.5 | 84.7 | 86.3 | 89.0 | 91.7 | 93.7 | 95.4 | 95.2 | 89.9 | | |
| PH08 | 78.2 | 82.4 | 85.6 | 88.2 | 91.1 | 92.2 | 94.2 | 96.0 | 97.9 | 98.5 | 99.4 | 95.1 | 91.4 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST PGINT 777R ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m²(513in²)

FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | G. | RADIAL 150. FT. | (40. M) | FULL SIZE SOUND PRESSURE LEVELS | | | | | SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) | | | | |
|--------------------|--------|-------|-----------------|---------|---------------------------------|-------|-------|-------|-------|--|-------|-------|-------|-------|
| | | | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. |
| 50 | 55.5 | 88.4 | 90.9 | 91.0 | 92.3 | 82.9 | 95.6 | 97.5 | 99.9 | 95.0 | 111.4 | 114.1 | 114.7 | 158.9 |
| 63 | 27.2 | 91.5 | 89.8 | 92.1 | 94.4 | 86.0 | 96.7 | 98.8 | 102.3 | 98.3 | 113.5 | 116.5 | 116.5 | 161.0 |
| 80 | 89.3 | 90.5 | 92.3 | 93.1 | 94.4 | 85.5 | 96.2 | 99.5 | 103.8 | 101.1 | 116.6 | 118.5 | 118.5 | 162.9 |
| 130 | 90.1 | 90.6 | 92.6 | 93.4 | 94.5 | 86.4 | 98.3 | 100.9 | 105.6 | 102.2 | 117.7 | 118.3 | 117.1 | 163.6 |
| 125 | 91.5 | 92.5 | 93.5 | 95.0 | 96.6 | 87.5 | 99.9 | 102.3 | 106.5 | 102.8 | 117.2 | 120.2 | 117.5 | 164.3 |
| 160 | 94.0 | 94.0 | 94.3 | 96.3 | 97.9 | 88.7 | 100.6 | 103.5 | 108.5 | 104.1 | 118.3 | 120.7 | 118.7 | 165.1 |
| 200 | 96.8 | 97.3 | 97.8 | 98.6 | 99.0 | 90.1 | 101.7 | 104.4 | 109.1 | 103.7 | 117.9 | 119.3 | 118.8 | 164.5 |
| 250 | 96.1 | 97.7 | 99.2 | 99.0 | 100.1 | 91.2 | 102.3 | 105.7 | 110.2 | 103.3 | 117.5 | 120.4 | 118.7 | 164.9 |
| 315 | 96.7 | 97.0 | 97.0 | 98.8 | 100.2 | 91.8 | 102.7 | 105.8 | 110.8 | 104.1 | 118.3 | 120.2 | 118.5 | 165.1 |
| 400 | 98.3 | 98.3 | 99.8 | 99.4 | 100.2 | 91.3 | 103.5 | 106.6 | 110.8 | 103.9 | 118.4 | 119.8 | 115.1 | 164.6 |
| 500 | 99.9 | 99.7 | 99.7 | 100.0 | 100.8 | 92.0 | 104.1 | 107.5 | 112.0 | 104.3 | 118.8 | 117.7 | 113.5 | 166.1 |
| 630 | 100.7 | 100.7 | 101.5 | 101.8 | 101.6 | 92.0 | 104.1 | 107.5 | 112.0 | 104.3 | 118.8 | 117.7 | 113.5 | 163.7 |
| 800 | 98.2 | 99.0 | 100.6 | 101.1 | 102.4 | 92.3 | 103.9 | 107.8 | 111.1 | 103.7 | 116.9 | 113.5 | 109.5 | 162.3 |
| 1000 | 97.1 | 98.9 | 99.7 | 100.7 | 102.1 | 93.7 | 104.3 | 108.2 | 111.7 | 103.1 | 115.5 | 112.9 | 108.9 | 161.6 |
| 1250 | 96.5 | 97.5 | 99.9 | 101.1 | 102.2 | 94.1 | 106.0 | 108.1 | 111.1 | 102.7 | 114.4 | 111.6 | 109.1 | 161.3 |
| 1600 | 95.4 | 97.3 | 98.3 | 101.1 | 103.2 | 94.0 | 105.9 | 108.1 | 110.6 | 102.4 | 113.1 | 111.0 | 108.3 | 160.7 |
| 2000 | 94.1 | 96.2 | 99.2 | 100.7 | 103.3 | 93.2 | 105.5 | 108.0 | 110.0 | 101.1 | 111.8 | 110.4 | 107.7 | 160.2 |
| 2500 | 92.3 | 96.5 | 97.9 | 99.8 | 101.4 | 92.8 | 105.4 | 105.7 | 108.4 | 99.8 | 110.2 | 109.3 | 106.8 | 153.9 |
| 3150 | 90.6 | 95.6 | 97.0 | 99.7 | 101.5 | 91.6 | 105.0 | 105.0 | 108.2 | 98.2 | 109.3 | 103.9 | 106.1 | 158.6 |
| 4000 | 88.9 | 93.4 | 95.8 | 96.9 | 100.7 | 90.3 | 103.2 | 102.5 | 105.8 | 95.5 | 106.7 | 105.4 | 103.8 | 156.5 |
| 5000 | 37.2 | 92.2 | 93.7 | 96.1 | 98.3 | 88.3 | 100.3 | 101.2 | 104.5 | 93.4 | 105.9 | 102.1 | 101.9 | 155.0 |
| 6300 | 85.9 | 91.4 | 94.0 | 96.0 | 98.5 | 88.0 | 100.9 | 99.5 | 103.0 | 93.0 | 104.0 | 103.8 | 101.5 | 154.9 |
| 8000 | 32.5 | 87.9 | 92.4 | 94.3 | 96.4 | 85.2 | 99.6 | 97.5 | 101.4 | 92.7 | 104.1 | 102.1 | 99.9 | 154.5 |
| 10000 | 73.7 | 86.1 | 90.2 | 90.1 | 93.0 | 82.6 | 96.3 | 92.7 | 97.9 | 89.6 | 103.2 | 98.4 | 95.8 | 153.0 |
| 12500 | 76.8 | 81.3 | 90.7 | 86.8 | 92.5 | 79.8 | 94.3 | 90.5 | 96.5 | 90.1 | 103.8 | 94.9 | 94.3 | 154.1 |
| 16000 | 79.0 | 82.3 | 93.7 | 87.0 | 96.0 | 82.9 | 96.8 | 90.2 | 98.5 | 93.7 | 103.4 | 96.8 | 97.2 | 158.3 |
| OVERALL CALCULATED | 108.8 | 110.1 | 111.3 | 112.3 | 113.9 | 104.6 | 116.6 | 118.8 | 122.5 | 115.4 | 129.3 | 130.2 | 128.1 | 176.0 |
| PNDB | 118.2 | 121.2 | 122.7 | 124.4 | 126.2 | 116.7 | 129.2 | 130.3 | 133.7 | 125.3 | 137.6 | 137.2 | 134.8 | |

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ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 778R ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513m²)

PAGE 5 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | |
|--------------------|---|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. |
| 50 | (0.70)(0.87) | (1.05) | (1.22) | (1.43) | (1.57) | (1.75) |
| 63 | 57.5 | 61.8 | 65.4 | 66.2 | 67.9 | 71.2 |
| 80 | 60.9 | 63.8 | 67.2 | 68.2 | 70.0 | 72.7 |
| 100 | 61.7 | 63.8 | 66.9 | 68.5 | 70.2 | 72.7 |
| 125 | 62.9 | 65.5 | 67.7 | 70.0 | 72.0 | 74.9 |
| 160 | 65.2 | 66.9 | 68.8 | 71.1 | 73.1 | 76.0 |
| 200 | 67.8 | 70.1 | 71.8 | 73.3 | 74.1 | 75.9 |
| 250 | 66.9 | 70.2 | 72.9 | 73.5 | 75.0 | 76.8 |
| 315 | 67.2 | 69.3 | 70.5 | 73.1 | 74.9 | 77.4 |
| 400 | 68.3 | 70.2 | 73.0 | 73.4 | 74.7 | 77.9 |
| 500 | 69.4 | 71.1 | 72.5 | 73.6 | 75.0 | 78.0 |
| 630 | 69.5 | 71.6 | 73.8 | 74.9 | 75.3 | 77.8 |
| 800 | 66.1 | 69.2 | 72.2 | 73.7 | 75.5 | 77.0 |
| 1000 | 63.9 | 68.1 | 70.5 | 72.6 | 74.5 | 76.7 |
| 1250 | 62.0 | 65.7 | 69.7 | 72.1 | 73.8 | 75.5 |
| 1600 | 59.0 | 64.2 | 67.2 | 70.7 | 73.5 | 74.4 |
| 2000 | 55.3 | 62.7 | 65.0 | 68.8 | 72.1 | 72.6 |
| 2500 | 50.1 | 58.3 | 62.1 | 65.7 | 68.1 | 71.6 |
| 3150 | 43.0 | 52.9 | 57.3 | 61.9 | 64.7 | 72.6 |
| 4000 | 33.3 | 44.0 | 50.2 | 53.7 | 58.8 | 68.2 |
| 5000 | 26.9 | 38.8 | 44.7 | 49.7 | 53.4 | 61.3 |
| 6300 | 11.9 | 26.6 | 34.9 | 40.4 | 44.9 | 54.9 |
| 8000 | | 5.5 | 17.9 | 24.5 | 29.2 | 35.0 |
| 10000 | | | 0.6 | 7.1 | 18.9 | 32.5 |
| 12500 | | | | | 10.6 | 3.3 |
| 16000 | | | | | | |
| OVERALL CALCULATED | 77.7 | 80.4 | 82.7 | 84.3 | 85.9 | 88.7 |
| PND8 | 82.9 | 86.4 | 89.1 | 91.6 | 94.1 | 96.8 |

NO EGA
 SIDELINE 2400. FT.
 (731.52 M)
 NFA 1. RPM
 NFK 0. RAD/SEC
 NFD 7500. RPM
 (785. RAD/SEC)
 AIRFLOW RATIO
 WF/W 4.63
 VEHICLE CELL41
 CONFIG NC58
 LOC C41 ANECH CH
 DATE 06-16-76
 RUN CONF7REPEATH
 TAPE X07780
 FAN TIP SPEED
 FT/SEC

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 778 R ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m(513in?) SIZE

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 9 DAY 7 HR. 17.6
DEG. FA 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | RADIOAL 150 - FT.
(46. M) | VEHICLE
CONFIG | LOC C41 ANECH CH
DATE 06-16-76
RUN CONF7REPEATH
TAPE X0780) | BAR 29.3 HG
(98807. N/M2) | TAMB 69. DEG F
(294. DEG K) | TWET 67. DEG F
(292. DEG K) | HACT15.96 GM/M3
(.01596 KG/M3) | JET
SHIFT 7 | DIAMETER RATIO
DF/DM 4.63 | SCALED FROM MODEL DATA (59. DEG. FA 70 PERCENT REL. HUM. DAY - JENOTS) | | | | | | | | | | | |
|--------------------|--------|------------------------------|-------------------|--|------------------------------|--------------------------------|--------------------------------|-----------------------------------|----------------|------------------------------|--|-------|-------|-------|-----|-----|-----|------|------|------|------|------|
| | | | | | | | | | | | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. |
| 50 | 80.7 | 83.4 | 84.9 | 85.2 | 86.6 | 87.4 | 89.5 | 91.7 | 94.4 | 99.5 | 104.9 | 106.9 | 107.4 | 152.4 | | | | | | | | |
| 63 | 81.7 | 85.8 | 84.8 | 87.1 | 89.2 | 90.0 | 90.7 | 93.1 | 96.5 | 101.3 | 106.5 | 109.2 | 109.3 | 154.4 | | | | | | | | |
| 89 | 84.5 | 85.3 | 87.6 | 87.8 | 89.4 | 90.5 | 91.9 | 94.3 | 97.8 | 103.9 | 108.3 | 110.5 | 109.5 | 155.7 | | | | | | | | |
| 100 | 84.6 | 85.6 | 87.6 | 88.2 | 89.3 | 91.4 | 92.8 | 95.2 | 98.6 | 105.2 | 108.9 | 110.6 | 109.4 | 156.1 | | | | | | | | |
| 125 | 85.5 | 87.5 | 88.2 | 89.0 | 91.1 | 92.2 | 94.4 | 96.8 | 100.2 | 105.1 | 107.8 | 109.7 | 108.2 | 155.4 | | | | | | | | |
| 160 | 86.5 | 88.2 | 89.3 | 90.5 | 92.1 | 93.2 | 95.1 | 97.5 | 101.5 | 105.8 | 108.3 | 108.0 | 107.2 | 155.3 | | | | | | | | |
| 200 | 88.0 | 89.3 | 90.3 | 91.4 | 92.5 | 94.3 | 96.0 | 98.4 | 101.8 | 105.9 | 107.1 | 106.0 | 105.6 | 154.6 | | | | | | | | |
| 250 | 87.9 | 89.2 | 91.9 | 92.0 | 93.1 | 94.7 | 96.1 | 99.5 | 102.7 | 105.5 | 106.2 | 106.1 | 104.7 | 154.5 | | | | | | | | |
| 315 | 87.7 | 89.3 | 90.8 | 92.1 | 93.9 | 95.5 | 96.4 | 99.1 | 103.0 | 106.1 | 106.3 | 106.2 | 105.3 | 154.8 | | | | | | | | |
| 400 | 88.0 | 89.8 | 91.6 | 92.1 | 94.0 | 95.3 | 97.2 | 100.4 | 102.6 | 103.4 | 105.9 | 105.8 | 104.3 | 154.5 | | | | | | | | |
| 500 | 83.2 | 90.0 | 91.5 | 91.8 | 94.3 | 95.0 | 96.8 | 100.3 | 102.7 | 104.3 | 105.5 | 105.7 | 104.5 | 154.2 | | | | | | | | |
| 630 | 88.4 | 90.2 | 91.7 | 92.8 | 94.3 | 95.0 | 97.1 | 100.3 | 103.5 | 105.3 | 105.5 | 105.7 | 105.0 | 154.5 | | | | | | | | |
| 800 | 87.5 | 89.3 | 90.6 | 91.8 | 93.9 | 95.0 | 97.2 | 100.3 | 102.8 | 104.4 | 104.1 | 105.0 | 103.5 | 153.3 | | | | | | | | |
| 1000 | 87.6 | 88.9 | 90.7 | 92.2 | 94.1 | 95.7 | 96.8 | 100.7 | 102.7 | 103.3 | 103.7 | 105.4 | 103.9 | 153.6 | | | | | | | | |
| 1250 | 86.5 | 88.8 | 90.4 | 91.9 | 94.5 | 96.3 | 97.7 | 100.1 | 102.6 | 102.5 | 103.2 | 105.8 | 103.8 | 153.5 | | | | | | | | |
| 1600 | 86.4 | 88.0 | 89.1 | 91.8 | 94.4 | 96.3 | 98.2 | 99.6 | 102.3 | 102.4 | 103.1 | 105.3 | 104.0 | 153.5 | | | | | | | | |
| 2000 | 84.1 | 87.7 | 88.5 | 91.0 | 94.3 | 94.7 | 97.3 | 99.7 | 102.2 | 101.4 | 102.0 | 103.2 | 103.7 | 153.1 | | | | | | | | |
| 3150 | 82.5 | 85.5 | 87.4 | 89.8 | 93.1 | 94.0 | 96.9 | 97.7 | 100.4 | 99.5 | 100.4 | 104.0 | 102.2 | 151.3 | | | | | | | | |
| 4000 | 78.7 | 81.7 | 84.3 | 86.2 | 89.2 | 91.7 | 93.1 | 96.2 | 97.0 | 99.5 | 98.7 | 99.3 | 102.9 | 151.1 | | | | | | | | |
| 5000 | 76.4 | 80.2 | 81.7 | 83.3 | 85.3 | 88.3 | 89.1 | 91.3 | 92.0 | 95.3 | 93.4 | 96.0 | 97.3 | 149.1 | | | | | | | | |
| 6300 | 75.2 | 79.2 | 82.3 | 85.8 | 88.5 | 88.3 | 91.4 | 90.5 | 93.0 | 91.3 | 93.5 | 98.3 | 96.3 | 147.1 | | | | | | | | |
| 8000 | 72.2 | 76.4 | 81.2 | 84.5 | 85.6 | 85.9 | 91.4 | 87.3 | 90.0 | 89.7 | 91.1 | 95.8 | 94.2 | 146.9 | | | | | | | | |
| 10000 | 68.9 | 72.9 | 79.5 | 82.6 | 82.5 | 82.3 | 89.1 | 83.3 | 85.0 | 84.6 | 87.8 | 90.2 | 88.8 | 145.5 | | | | | | | | |
| 12500 | 66.0 | 69.8 | 80.0 | 82.0 | 80.6 | 79.3 | 89.4 | 79.3 | 81.0 | 81.9 | 86.3 | 85.2 | 85.8 | 142.7 | | | | | | | | |
| 16000 | 68.5 | 71.8 | 83.2 | 85.3 | 82.3 | 82.4 | 93.8 | 77.2 | 79.8 | 82.7 | 88.7 | 85.8 | 85.7 | 142.8 | | | | | | | | |
| OVERALL CALCULATED | 99.2 | 101.1 | 102.7 | 104.0 | 106.1 | 107.3 | 109.4 | 111.6 | 114.5 | 116.9 | 118.7 | 120.0 | 119.0 | 148.7 | | | | | | | | |
| PNOB | 108.5 | 111.1 | 112.9 | 115.1 | 117.6 | 118.6 | 121.3 | 122.5 | 125.2 | 125.8 | 127.0 | 129.4 | 128.0 | 167.3 | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 780 R ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | |
|--|---|------|------|------|------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. |
| 30 | 52.7 | 56.8 | 60.4 | 62.2 | 63.2 | 65.4 |
| 63 | 53.5 | 59.1 | 62.2 | 64.7 | 65.7 | 66.2 |
| 100 | 56.2 | 58.6 | 61.9 | 62.9 | 65.0 | 66.2 |
| 125 | 56.9 | 60.5 | 62.4 | 64.0 | 67.7 | 69.7 |
| 160 | 57.7 | 61.2 | 63.3 | 65.4 | 68.6 | 70.4 |
| 200 | 59.1 | 62.1 | 64.3 | 66.1 | 69.6 | 71.1 |
| 250 | 58.7 | 61.7 | 65.7 | 66.5 | 69.8 | 71.0 |
| 315 | 58.2 | 62.0 | 64.3 | 66.4 | 68.7 | 70.4 |
| 400 | 58.1 | 61.7 | 64.7 | 66.1 | 68.4 | 69.9 |
| 500 | 57.6 | 61.4 | 64.2 | 65.4 | 68.5 | 69.2 |
| 630 | 57.2 | 61.1 | 64.0 | 65.9 | 68.5 | 69.3 |
| 800 | 55.4 | 59.4 | 62.2 | 64.4 | 67.0 | 68.3 |
| 1000 | 54.4 | 58.1 | 61.5 | 64.1 | 66.5 | 68.3 |
| 1250 | 52.0 | 56.9 | 60.2 | 62.8 | 66.0 | 68.1 |
| 1600 | 49.9 | 54.5 | 57.5 | 64.7 | 66.8 | 68.5 |
| 2000 | 45.3 | 52.2 | 55.2 | 59.1 | 63.1 | 63.7 |
| 2500 | 40.4 | 47.3 | 51.6 | 55.7 | 59.8 | 61.0 |
| 3150 | 33.5 | 41.6 | 46.6 | 51.4 | 55.0 | 56.7 |
| 4000 | 23.1 | 32.2 | 38.7 | 44.0 | 49.1 | 49.3 |
| 5000 | 16.1 | 26.8 | 32.7 | 39.0 | 43.4 | 44.6 |
| 6300 | 1.1 | 14.4 | 23.2 | 30.2 | 34.9 | 35.2 |
| 8000 | | 6.7 | 14.8 | 19.5 | 19.6 | 24.3 |
| 10000 | | | | | | 17.5 |
| 12500 | | | | | | 15.4 |
| 16000 | | | | | | 3.2 |

OVERALL CALCULATED 68.6 72.2 74.9 76.7 79.1 80.6 82.0 84.4 86.5 88.6 89.0 87.7 83.1
 PNDB 72.5 76.9 80.1 82.8 86.0 87.5 89.3 90.9 92.5 93.0 92.0 89.5 82.9

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 780R ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL-33m(513in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 PROC. DATE - MONTH 9 DAY 7 HR. 17.6

| FREQ. | ANGLE FROM INLET IN DEGREES (AND RADIAN) | | | | PWL |
|-------|--|-------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | |
| 50 | 87.1 | 91.2 | 92.9 | 93.0 | 162.0 |
| 53 | 89.2 | 93.8 | 92.3 | 94.3 | 164.1 |
| 60 | 91.5 | 93.0 | 94.6 | 94.6 | 165.5 |
| 100 | 92.4 | 92.6 | 94.4 | 95.4 | 167.1 |
| 125 | 93.5 | 94.7 | 95.7 | 96.5 | 167.9 |
| 160 | 96.0 | 96.2 | 97.5 | 98.5 | 168.5 |
| 200 | 99.3 | 100.1 | 100.8 | 100.9 | 168.9 |
| 250 | 99.4 | 100.7 | 102.2 | 102.5 | 169.5 |
| 315 | 104.0 | 102.8 | 101.8 | 101.8 | 169.0 |
| 400 | 104.3 | 104.1 | 105.3 | 104.1 | 168.4 |
| 500 | 102.9 | 104.2 | 105.2 | 105.5 | 167.1 |
| 630 | 102.7 | 103.2 | 104.0 | 105.0 | 168.6 |
| 800 | 101.5 | 102.3 | 102.8 | 103.3 | 167.1 |
| 1000 | 101.9 | 102.4 | 103.7 | 104.5 | 165.8 |
| 1250 | 101.5 | 102.3 | 103.9 | 104.6 | 165.4 |
| 1600 | 100.9 | 102.8 | 103.6 | 105.1 | 164.7 |
| 2000 | 99.6 | 102.4 | 104.0 | 105.2 | 164.0 |
| 2500 | 98.0 | 101.0 | 102.6 | 104.8 | 162.7 |
| 3150 | 96.3 | 100.3 | 101.8 | 104.2 | 162.3 |
| 4000 | 94.4 | 98.2 | 100.0 | 102.2 | 159.2 |
| 5000 | 93.2 | 97.2 | 98.3 | 100.4 | 159.3 |
| 6300 | 92.2 | 96.4 | 98.5 | 100.3 | 158.9 |
| 8000 | 90.2 | 94.2 | 97.7 | 98.8 | 158.1 |
| 10000 | 86.7 | 90.7 | 95.0 | 95.6 | 154.7 |
| 12500 | 86.1 | 88.4 | 94.1 | 93.4 | 158.8 |
| 15000 | 88.6 | 91.2 | 97.4 | 94.6 | 164.7 |
| PNDB | 123.2 | 125.6 | 127.0 | 128.6 | 179.8 |

NO EGA
 RDG. NO. 0.
 RADIAL 150. FT.
 (46. M)
 VEHICLE CELL41
 CONFIG NC58
 LOC C41 ANECH CH
 DATE 06-16-76
 RUN CONFREPEATH
 TAPE X07810
 BAR 29.3 HG
 (98874. N/M2)
 TAMB 70. DEG F
 (294. DEG K)
 TWET 67. DEG F
 (293. DEG K)
 MACT16.00 GM/M3
 (-01600 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 DF/DM 4.63

OVERALL CALCULATED

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 781 R ACOUSTIC RANGE 45.7m(150ft.) ARC

SIZE FULL-.33m²(513in²)

PROG. DATE - MONTH 9 DAY 7 HR. 17.6

PHASE 5 FULL SCALE DATA REDUCTION PROGRAM

| FREQ. | FULL SIZE SOUND PRESSURE | | | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | O. (0.) (0.) (0.) | O. (0.) (0.) (0.) | | | |
|------------------------------------|--------------------------|------|------|--|------|------|----------------------|----------------------|-------|-------|-------|
| | 40. | 50. | 60. | 70. | 80. | 90. | | | | | |
| (0.70) (0.87) (1.05) (1.22) (1.42) | 59.0 | 64.6 | 67.4 | 68.2 | 69.7 | 70.9 | 75.2 | 80.4 | 85.8 | 89.4 | 84.0 |
| 50 | 61.0 | 67.1 | 68.9 | 69.7 | 71.7 | 73.2 | 74.2 | 76.0 | 78.7 | 83.4 | 88.1 |
| 63 | 63.2 | 66.3 | 68.9 | 69.7 | 71.7 | 73.2 | 74.2 | 76.0 | 78.7 | 83.4 | 88.1 |
| 80 | 65.8 | 68.7 | 70.5 | 72.2 | 74.2 | 75.0 | 77.5 | 82.7 | 88.9 | 92.7 | 92.3 |
| 100 | 67.2 | 69.2 | 71.6 | 73.4 | 74.9 | 76.1 | 78.1 | 80.6 | 84.3 | 89.5 | 93.3 |
| 125 | 69.2 | 71.6 | 73.4 | 75.6 | 75.8 | 77.8 | 81.6 | 84.8 | 89.2 | 93.4 | 92.4 |
| 150 | 72.8 | 74.8 | 75.6 | 77.0 | 78.0 | 79.0 | 79.8 | 82.5 | 85.7 | 89.0 | 93.2 |
| 200 | 73.2 | 75.9 | 77.0 | 77.4 | 78.9 | 79.2 | 81.9 | 85.8 | 88.9 | 93.0 | 92.0 |
| 250 | 75.0 | 75.3 | 76.1 | 77.4 | 78.9 | 79.2 | 81.9 | 85.8 | 88.9 | 93.0 | 92.0 |
| 315 | 76.0 | 76.0 | 76.5 | 78.1 | 77.7 | 78.2 | 79.9 | 83.1 | 86.0 | 89.5 | 79.2 |
| 400 | 76.0 | 76.0 | 76.5 | 78.1 | 77.7 | 78.2 | 79.9 | 83.1 | 86.0 | 89.5 | 79.2 |
| 500 | 76.4 | 75.6 | 78.0 | 79.1 | 80.0 | 79.7 | 83.1 | 86.2 | 88.0 | 91.7 | 86.2 |
| 630 | 71.5 | 74.1 | 76.3 | 78.2 | 80.3 | 80.6 | 82.9 | 86.0 | 88.2 | 90.1 | 84.1 |
| 800 | 69.4 | 72.4 | 74.4 | 75.9 | 77.5 | 79.3 | 80.5 | 82.9 | 85.2 | 87.3 | 86.2 |
| 1000 | 68.7 | 71.6 | 74.5 | 76.3 | 77.0 | 78.5 | 79.7 | 82.8 | 83.8 | 86.3 | 84.6 |
| 1250 | 67.0 | 70.4 | 73.7 | 75.6 | 77.3 | 78.6 | 79.5 | 81.3 | 82.9 | 84.3 | 82.1 |
| 1600 | 64.4 | 69.2 | 72.0 | 74.7 | 77.2 | 77.3 | 79.0 | 80.2 | 81.5 | 82.4 | 79.1 |
| 2000 | 60.8 | 67.0 | 70.7 | 73.3 | 75.9 | 75.5 | 77.4 | 78.1 | 79.5 | 79.2 | 75.3 |
| 2500 | 55.9 | 62.8 | 66.9 | 70.7 | 73.4 | 73.5 | 74.9 | 74.3 | 75.4 | 70.0 | 62.5 |
| 3150 | 48.8 | 57.6 | 62.1 | 66.4 | 69.3 | 69.7 | 71.8 | 69.7 | 71.3 | 69.0 | 63.3 |
| 4000 | 38.8 | 48.8 | 54.5 | 59.0 | 63.3 | 63.3 | 65.6 | 62.6 | 63.2 | 59.6 | 53.6 |
| 5000 | 32.9 | 43.8 | 49.3 | 54.0 | 58.2 | 58.7 | 58.7 | 57.6 | 58.8 | 53.3 | 48.9 |
| 6300 | 18.1 | 31.6 | 39.5 | 44.7 | 48.9 | 48.7 | 50.3 | 47.7 | 47.2 | 42.0 | 33.9 |
| 8000 | 11.8 | 23.2 | 29.1 | 32.3 | 33.7 | 33.7 | 34.3 | 31.1 | 29.7 | 24.9 | 12.7 |
| 10000 | | | 6.2 | 9.9 | 11.1 | 10.7 | 7.3 | | | | |
| 12500 | | | | | | | | | | | |
| 16000 | | | | | | | | | | | |
| OVERALL CALCULATED | 81.7 | 84.2 | 86.5 | 87.8 | 89.2 | 90.0 | 91.0 | 93.4 | 96.2 | 99.6 | 102.9 |
| PROB | 87.4 | 90.6 | 93.4 | 95.6 | 97.8 | 98.1 | 99.6 | 100.9 | 102.9 | 104.9 | 107.0 |

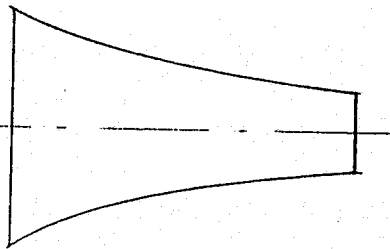
REPRODUCIBILITY OF THE ORIGINAL PAGE IS FOUR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION 7 TEST POINT 781R ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL SIZE FULL-.33m²(513in²)

6.8 Acoustic Data Conical Nozzle

$$A_T = 16.916 \text{ in.}^2$$



690 INTENTIONALLY BLANK

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIANS)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0. 0.
 FREQ. (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)(3.1)(3.2)

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | 0. |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|
| 100 | 63 | 84.6 | 95.4 | 93.7 | 94.2 | 96.3 | 96.2 | 96.3 | 97.5 | 100.4 | 99.7 | 103.2 | 103.9 | 106.4 | 141.2 | | | | |
| 125 | 30 | 83.6 | 89.6 | 91.6 | 92.7 | 95.0 | 95.9 | 96.2 | 97.2 | 98.6 | 96.4 | 104.4 | 107.3 | 107.9 | 141.8 | | | | |
| 160 | 30 | 82.6 | 88.4 | 91.4 | 90.7 | 92.0 | 92.4 | 92.0 | 95.5 | 99.4 | 103.0 | 107.2 | 109.4 | 110.9 | 143.9 | | | | |
| 200 | 30 | 87.3 | 89.0 | 89.5 | 90.6 | 92.7 | 94.5 | 95.4 | 98.3 | 102.0 | 106.6 | 109.1 | 113.8 | 114.0 | 147.1 | | | | |
| 250 | 30 | 87.3 | 89.0 | 89.5 | 90.6 | 92.7 | 94.5 | 95.4 | 98.3 | 102.0 | 106.6 | 109.1 | 113.8 | 114.0 | 151.1 | | | | |
| 315 | 30 | 88.9 | 91.9 | 92.4 | 92.5 | 94.5 | 96.4 | 98.6 | 101.7 | 106.7 | 111.8 | 116.5 | 117.9 | 116.7 | 151.3 | | | | |
| 400 | 30 | 90.9 | 91.5 | 93.2 | 93.7 | 95.6 | 97.5 | 98.8 | 102.5 | 108.2 | 114.5 | 119.5 | 119.7 | 116.7 | 153.8 | | | | |
| 500 | 30 | 92.3 | 93.5 | 94.0 | 94.3 | 97.2 | 98.0 | 100.7 | 104.3 | 110.3 | 117.9 | 120.1 | 120.0 | 117.0 | 154.9 | | | | |
| 630 | 30 | 94.4 | 94.9 | 95.1 | 95.7 | 97.8 | 99.4 | 101.5 | 105.4 | 112.4 | 119.0 | 121.4 | 119.3 | 117.6 | 155.8 | | | | |
| 800 | 30 | 97.1 | 97.2 | 97.9 | 97.7 | 99.8 | 101.4 | 102.8 | 107.2 | 115.2 | 121.5 | 122.7 | 119.4 | 117.2 | 157.2 | | | | |
| 1000 | 30 | 101.9 | 101.5 | 102.2 | 100.3 | 101.9 | 102.2 | 104.6 | 108.8 | 117.0 | 122.6 | 122.0 | 118.7 | 116.2 | 157.5 | | | | |
| 1250 | 30 | 112.0 | 110.3 | 107.6 | 105.4 | 104.9 | 104.8 | 105.7 | 110.4 | 118.1 | 122.9 | 122.1 | 117.8 | 114.6 | 158.1 | | | | |
| 1600 | 30 | 113.9 | 112.4 | 109.4 | 105.7 | 104.6 | 105.2 | 106.1 | 110.5 | 118.9 | 122.8 | 121.0 | 115.4 | 112.9 | 157.9 | | | | |
| 2000 | 30 | 114.7 | 114.2 | 113.7 | 111.8 | 108.6 | 106.2 | 107.1 | 111.8 | 119.2 | 122.8 | 119.5 | 114.7 | 111.2 | 158.1 | | | | |
| 2500 | 30 | 111.8 | 112.1 | 112.6 | 114.9 | 115.0 | 110.1 | 109.2 | 113.1 | 118.6 | 122.4 | 117.9 | 113.3 | 109.6 | 158.0 | | | | |
| 3150 | 30 | 111.0 | 111.0 | 111.3 | 112.6 | 114.9 | 115.0 | 110.7 | 113.3 | 118.6 | 120.1 | 117.1 | 112.5 | 108.3 | 156.7 | | | | |
| 4000 | 30 | 109.3 | 109.6 | 110.8 | 110.1 | 112.4 | 114.6 | 113.7 | 113.6 | 117.3 | 119.7 | 115.6 | 111.0 | 107.1 | 156.5 | | | | |
| 5000 | 30 | 108.6 | 108.9 | 110.0 | 110.5 | 111.8 | 112.2 | 114.6 | 115.5 | 118.2 | 118.1 | 115.0 | 110.4 | 106.7 | 155.9 | | | | |
| 6300 | 30 | 107.7 | 108.8 | 109.3 | 109.6 | 111.6 | 112.0 | 112.6 | 115.1 | 117.3 | 117.2 | 113.3 | 109.2 | 105.3 | 155.6 | | | | |
| 8000 | 30 | 107.2 | 107.1 | 108.9 | 109.1 | 111.5 | 111.8 | 112.5 | 115.4 | 116.9 | 116.5 | 112.9 | 108.8 | 105.1 | 154.9 | | | | |
| 12500 | 30 | 105.9 | 106.2 | 108.1 | 108.3 | 110.6 | 111.0 | 112.9 | 113.8 | 115.6 | 115.5 | 111.1 | 106.5 | 103.2 | 153.9 | | | | |
| 16000 | 30 | 104.1 | 104.0 | 106.6 | 107.1 | 109.2 | 110.0 | 110.7 | 111.8 | 114.6 | 113.6 | 110.2 | 105.8 | 102.0 | 153.6 | | | | |
| 20000 | 30 | 99.1 | 99.8 | 103.0 | 101.6 | 105.2 | 104.4 | 107.1 | 107.5 | 110.7 | 109.5 | 105.8 | 101.5 | 97.7 | 151.6 | | | | |
| 25000 | 30 | 98.0 | 98.1 | 100.0 | 98.3 | 102.5 | 104.1 | 103.3 | 104.7 | 107.5 | 106.2 | 103.7 | 95.5 | 95.8 | 150.2 | | | | |
| 31500 | 30 | 97.2 | 95.4 | 99.6 | 98.3 | 100.6 | 102.8 | 102.0 | 102.6 | 105.4 | 104.7 | 100.7 | 96.0 | 93.5 | 151.5 | | | | |
| 40000 | 30 | 92.9 | 91.0 | 95.4 | 92.9 | 96.0 | 98.0 | 98.0 | 99.2 | 105.9 | 102.3 | 97.5 | 90.9 | 86.8 | 151.4 | | | | |
| 50000 | 30 | 85.3 | 85.4 | 88.3 | 86.4 | 89.5 | 91.6 | 90.6 | 93.4 | 100.6 | 98.3 | 91.7 | 84.4 | 77.6 | 150.2 | | | | |
| 63000 | 30 | 78.6 | 80.6 | 81.9 | 80.9 | 83.6 | 84.8 | 84.6 | 88.4 | 96.4 | 94.2 | 84.7 | 77.5 | 67.8 | 151.8 | | | | |
| 80000 | 30 | 74.0 | 75.2 | 77.8 | 76.5 | 79.2 | 82.1 | 81.5 | 83.2 | 94.6 | 92.0 | 83.1 | 74.0 | 62.3 | 158.7 | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | | | | | | | | | | | | | | | | | | |
| PNDB 121.4 121.0 121.2 121.2 122.5 122.4 122.6 124.8 129.3 132.4 131.5 129.1 126.8 | | | | | | | | | | | | | | | | | | | |
| PNDB 133.3 133.2 133.5 134.4 135.5 135.5 135.2 137.1 141.6 144.5 142.2 138.8 135.8 | | | | | | | | | | | | | | | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 1 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

| NO | EQA | RDLG. | RADIAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | CONFLOW | TAPE | BAR | TAM3 | TWT | HACT | JET | DIAMETER RATIO | DF/DH | LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMDOTS) | | | PWL |
|-------|-------|-------|-----------------|---------|--------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|----------------|-------|--|-------|-------|-------|
| | | | | | | | | | | | | | | | | | | 40. | 50. | 60. | |
| 50 | 75.7 | 93.9 | 94.4 | 95.2 | 97.5 | 99.9 | 103.3 | 107.5 | 111.4 | 115.2 | 119.0 | 122.7 | 126.5 | 130.3 | 134.1 | 137.9 | 141.7 | 145.5 | 149.3 | 153.1 | 156.9 |
| 53 | 92.3 | 93.3 | 95.3 | 98.2 | 99.8 | 101.4 | 103.0 | 104.6 | 106.2 | 107.8 | 109.4 | 111.0 | 112.6 | 114.2 | 115.8 | 117.4 | 119.0 | 120.6 | 122.2 | 123.8 | 125.4 |
| 57 | 94.3 | 94.3 | 96.3 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |
| 100 | 95.6 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |
| 125 | 97.7 | 97.2 | 98.5 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| 160 | 100.5 | 100.5 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 |
| 200 | 103.3 | 104.5 | 105.6 | 104.7 | 105.2 | 105.6 | 106.0 | 106.4 | 106.8 | 107.2 | 107.6 | 108.0 | 108.4 | 108.8 | 109.2 | 109.6 | 110.0 | 110.4 | 110.8 | 111.2 | 111.6 |
| 250 | 113.4 | 113.7 | 112.9 | 108.7 | 108.3 | 108.2 | 109.1 | 109.4 | 109.7 | 110.0 | 110.3 | 110.6 | 110.9 | 111.2 | 111.5 | 111.8 | 112.1 | 112.4 | 112.7 | 113.0 | 113.3 |
| 315 | 117.3 | 115.8 | 112.5 | 109.1 | 107.9 | 108.5 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 |
| 430 | 113.1 | 117.6 | 117.1 | 115.1 | 112.0 | 109.6 | 110.5 | 111.5 | 112.6 | 126.2 | 122.9 | 118.1 | 114.6 | 111.0 | 107.7 | 104.4 | 101.1 | 97.8 | 94.5 | 91.2 | 87.9 |
| 500 | 115.2 | 115.5 | 116.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 | 118.3 |
| 630 | 114.4 | 114.5 | 114.7 | 116.0 | 115.9 | 115.8 | 115.7 | 115.6 | 115.5 | 115.4 | 115.3 | 115.2 | 115.1 | 115.0 | 114.9 | 114.8 | 114.7 | 114.6 | 114.5 | 114.4 | 114.3 |
| 300 | 112.7 | 113.0 | 114.3 | 113.6 | 113.5 | 113.4 | 113.3 | 113.2 | 113.1 | 113.0 | 112.9 | 112.8 | 112.7 | 112.6 | 112.5 | 112.4 | 112.3 | 112.2 | 112.1 | 112.0 | 111.9 |
| 1090 | 112.1 | 112.4 | 113.5 | 114.0 | 115.3 | 115.7 | 116.1 | 116.5 | 116.9 | 117.3 | 117.7 | 118.1 | 118.5 | 118.9 | 119.3 | 119.7 | 120.1 | 120.5 | 120.9 | 121.3 | 121.7 |
| 1250 | 111.3 | 112.3 | 112.9 | 113.1 | 115.2 | 115.6 | 116.2 | 116.7 | 117.2 | 117.7 | 118.2 | 118.7 | 119.2 | 119.7 | 120.2 | 120.7 | 121.2 | 121.7 | 122.2 | 122.7 | 123.2 |
| 1500 | 111.2 | 111.6 | 112.6 | 112.9 | 115.2 | 115.5 | 116.2 | 116.7 | 117.2 | 117.7 | 118.2 | 118.7 | 119.2 | 119.7 | 120.2 | 120.7 | 121.2 | 121.7 | 122.2 | 122.7 | 123.2 |
| 2000 | 109.5 | 113.2 | 112.0 | 112.5 | 114.6 | 115.0 | 116.8 | 117.8 | 118.8 | 119.8 | 120.8 | 121.8 | 122.8 | 123.8 | 124.8 | 125.8 | 126.8 | 127.8 | 128.8 | 129.8 | 130.8 |
| 2500 | 109.4 | 103.3 | 111.0 | 111.4 | 113.5 | 114.3 | 115.0 | 115.7 | 116.4 | 117.1 | 117.8 | 118.5 | 119.2 | 119.9 | 120.6 | 121.3 | 122.0 | 122.7 | 123.4 | 124.1 | 124.8 |
| 3150 | 107.5 | 107.7 | 110.9 | 110.3 | 113.1 | 113.2 | 115.1 | 115.4 | 118.9 | 116.9 | 113.5 | 109.5 | 105.7 | 101.9 | 98.1 | 94.3 | 90.5 | 86.7 | 82.9 | 79.1 | 75.3 |
| 4000 | 104.7 | 105.4 | 103.5 | 107.2 | 111.4 | 110.0 | 112.7 | 113.0 | 116.3 | 115.1 | 111.4 | 106.1 | 100.8 | 95.5 | 90.2 | 84.9 | 79.6 | 74.3 | 69.0 | 63.7 | 58.4 |
| 5000 | 105.6 | 103.9 | 108.0 | 106.7 | 109.0 | 111.2 | 110.4 | 111.1 | 116.8 | 113.1 | 109.2 | 104.5 | 99.8 | 95.1 | 90.4 | 85.7 | 81.0 | 76.3 | 71.6 | 66.9 | 62.2 |
| 6000 | 103.7 | 101.8 | 106.2 | 103.7 | 106.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 |
| 10000 | 99.6 | 99.2 | 102.2 | 100.2 | 103.3 | 105.4 | 104.4 | 107.2 | 114.4 | 112.2 | 105.5 | 98.3 | 91.4 | 84.5 | 77.6 | 70.7 | 63.8 | 56.9 | 50.0 | 43.1 | 36.2 |
| 12500 | 96.9 | 95.8 | 100.2 | 99.1 | 101.9 | 103.1 | 102.9 | 106.7 | 114.7 | 112.5 | 103.0 | 95.8 | 88.1 | 80.4 | 72.7 | 65.0 | 57.3 | 49.6 | 41.9 | 34.2 | 26.5 |
| 15000 | 95.0 | 94.9 | 102.5 | 101.1 | 103.8 | 106.7 | 106.1 | 107.9 | 119.2 | 116.7 | 107.7 | 98.7 | 86.9 | 74.1 | 61.3 | 48.5 | 35.7 | 22.9 | 10.1 | -2.7 | -15.5 |
| 20000 | 92.6 | 92.6 | 104.6 | 103.0 | 104.9 | 126.3 | 126.4 | 126.6 | 128.7 | 133.3 | 135.9 | 138.5 | 141.1 | 143.7 | 146.3 | 148.9 | 151.5 | 154.1 | 156.7 | 159.3 | 161.9 |
| 25000 | 94.0 | 94.0 | 134.0 | 135.9 | 135.4 | 137.6 | 137.9 | 138.9 | 140.3 | 144.4 | 144.7 | 142.1 | 138.1 | 135.0 | 131.9 | 128.8 | 125.7 | 122.6 | 119.5 | 116.4 | 113.3 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 1 ACOUSTIC RANGE 45.7m(150ft.) ARC FULL - 33m²(513in²) SIZE

| MO EGA | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|----------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| SIDELINE 240C. FT.
(731.52 M) | 50 | 62.5 | 67.3 | 68.9 | 70.4 | 73.2 | 75.7 | 78.9 | 82.7 | 85.9 | 88.6 | 89.7 | 85.0 |
| NFA (0. RAD/SEC) | 63 | 64.0 | 68.6 | 70.2 | 71.0 | 73.7 | 75.7 | 77.5 | 80.2 | 84.5 | 88.4 | 91.6 | 90.7 |
| NFK (0. RAD/SEC) | 87 | 66.0 | 68.1 | 70.9 | 72.2 | 74.5 | 76.5 | 77.7 | 80.9 | 85.9 | 91.1 | 94.5 | 85.9 |
| NFD (750C. RPM) | 100 | 67.2 | 70.1 | 71.7 | 72.7 | 76.0 | 77.0 | 79.5 | 82.7 | 87.9 | 94.4 | 95.0 | 86.0 |
| AIRFLOW RATIO | 125 | 69.1 | 71.3 | 72.7 | 74.0 | 76.5 | 78.3 | 80.2 | 83.7 | 89.9 | 95.4 | 96.2 | 91.8 |
| WF/MM 5.51 | 160 | 71.7 | 73.4 | 75.3 | 75.9 | 78.4 | 80.2 | 81.4 | 85.4 | 92.6 | 97.8 | 97.3 | 91.5 |
| VEHICLE | 200 | 76.4 | 77.6 | 79.5 | 78.8 | 80.3 | 80.9 | 83.1 | 86.8 | 94.3 | 98.7 | 96.4 | 90.6 |
| CONFIG | 250 | 86.2 | 86.2 | 84.7 | 83.2 | 83.3 | 83.3 | 84.0 | 88.2 | 95.2 | 98.8 | 96.3 | 89.4 |
| LOC C41 ANECH CH | 315 | 87.7 | 88.0 | 86.3 | 83.4 | 82.7 | 83.4 | 84.2 | 88.1 | 95.8 | 98.4 | 94.8 | 86.5 |
| DATE 09-01-76 | 400 | 88.1 | 89.5 | 90.3 | 89.1 | 86.4 | 84.2 | 84.9 | 89.1 | 95.8 | 98.1 | 92.9 | 85.3 |
| RUN CON1LOWFLOW | 500 | 84.7 | 86.9 | 88.7 | 91.9 | 92.5 | 87.7 | 86.7 | 90.1 | 94.7 | 97.2 | 90.7 | 83.2 |
| TAPE X00010 | 630 | 83.2 | 85.3 | 87.0 | 89.2 | 92.0 | 92.3 | 87.8 | 89.9 | 94.2 | 94.4 | 89.3 | 81.6 |
| FAN TIP SPEED | 800 | 80.6 | 83.1 | 85.9 | 86.2 | 89.0 | 91.3 | 90.3 | 89.7 | 92.4 | 93.3 | 87.0 | 79.0 |
| | 1000 | 78.9 | 81.6 | 84.3 | 85.8 | 87.7 | 88.3 | 90.5 | 90.8 | 92.5 | 90.8 | 85.3 | 77.0 |
| | 1250 | 76.7 | 80.4 | 82.7 | 84.1 | 86.8 | 87.3 | 87.8 | 90.6 | 90.7 | 88.8 | 82.4 | 74.1 |
| | 1600 | 74.5 | 77.3 | 81.0 | 82.5 | 85.5 | 86.1 | 86.5 | 88.7 | 89.0 | 86.7 | 80.2 | 71.3 |
| | 2000 | 71.0 | 74.8 | 78.8 | 80.4 | 83.4 | 84.0 | 85.7 | 85.9 | 86.3 | 84.0 | 76.3 | 66.2 |
| | 2500 | 66.3 | 70.1 | 75.2 | 77.2 | 80.2 | 81.3 | 81.7 | 81.9 | 83.2 | 79.6 | 72.4 | 61.5 |
| | 3150 | 59.5 | 65.0 | 71.2 | 72.5 | 76.4 | 76.8 | 78.4 | 77.6 | 79.2 | 74.2 | 66.0 | 54.0 |
| | 4000 | 49.1 | 56.0 | 62.9 | 64.0 | 69.5 | 68.5 | 70.8 | 69.8 | 70.7 | 65.6 | 55.8 | 40.0 |
| | 5000 | 44.5 | 51.6 | 57.8 | 58.8 | 64.5 | 66.6 | 65.3 | 65.3 | 65.4 | 59.7 | 50.3 | 30.3 |
| | 6300 | 31.5 | 39.1 | 49.0 | 51.2 | 55.4 | 58.2 | 56.8 | 55.5 | 57.7 | 48.3 | 35.1 | 14.5 |
| | 8000 | 8.5 | 19.4 | 31.7 | 34.0 | 39.7 | 42.5 | 41.7 | 40.3 | 42.2 | 30.7 | 15.1 | |
| | 10000 | | 6.1 | 10.3 | 17.4 | 20.6 | 18.5 | 17.7 | 18.4 | 5.3 | | | |
| | 12500 | | | | | | | | | | | | |
| OVERALL CALCULATED | 94.0 | 95.4 | 96.3 | 97.2 | 98.5 | 98.4 | 98.1 | 100.2 | 104.7 | 107.5 | 105.4 | 100.8 | 94.7 |
| PNDB | 99.4 | 101.5 | 103.3 | 104.4 | 106.0 | 106.2 | 106.8 | 108.4 | 111.3 | 112.6 | 108.8 | 102.1 | 94.6 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT / SIDELINE ACOUSTIC RANGE 731.5m(2400ft.) SIZE FULL-.33m²(513in²)

FULL SCALE DATA REDUCTION PROGRAM

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

PROC. DATE - MONTH 9 DAY 17 HR. 22.3
 40. (1.70)(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. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. 0. 0. 0. 0. 0. 0. 0. P.WL
 63

| RDG. NO. | NO EGA | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 0. | 0. | 0. | 0. | P.WL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|------|
| 100 | 79.6 | 91.2 | 89.2 | 89.7 | 92.0 | 91.9 | 91.3 | 92.7 | 95.7 | 95.7 | 95.7 | 98.9 | 99.6 | 101.2 | 136.7 | | | | |
| 125 | 78.3 | 85.1 | 86.9 | 87.7 | 90.5 | 91.6 | 92.2 | 92.9 | 94.6 | 92.9 | 94.6 | 92.9 | 99.4 | 102.3 | 137.1 | | | | |
| 160 | 78.9 | 84.9 | 86.9 | 86.2 | 87.8 | 88.2 | 85.0 | 90.7 | 95.4 | 92.9 | 99.4 | 102.4 | 104.1 | 105.4 | 139.0 | | | | |
| 200 | 83.5 | 85.0 | 85.5 | 86.6 | 88.4 | 90.5 | 91.4 | 93.8 | 98.5 | 98.5 | 102.9 | 105.3 | 109.0 | 108.8 | 142.6 | | | | |
| 250 | 83.8 | 87.1 | 87.6 | 87.9 | 90.0 | 91.8 | 94.7 | 97.6 | 102.3 | 106.7 | 111.1 | 112.3 | 110.8 | 146.6 | | | | | |
| 315 | 84.4 | 88.7 | 88.2 | 89.0 | 91.1 | 93.2 | 94.6 | 97.2 | 103.2 | 108.3 | 112.0 | 113.9 | 111.9 | 147.6 | | | | | |
| 400 | 86.9 | 88.7 | 89.7 | 90.2 | 92.3 | 93.7 | 95.1 | 98.7 | 104.2 | 111.5 | 115.7 | 115.4 | 112.7 | 150.0 | | | | | |
| 500 | 88.3 | 89.5 | 90.5 | 91.1 | 94.2 | 95.3 | 96.9 | 100.3 | 107.0 | 114.1 | 115.8 | 116.2 | 113.3 | 151.0 | | | | | |
| 650 | 90.1 | 91.6 | 91.9 | 92.7 | 94.8 | 95.9 | 97.5 | 101.7 | 108.6 | 115.7 | 117.4 | 115.6 | 113.9 | 152.1 | | | | | |
| 800 | 92.6 | 92.9 | 93.4 | 93.4 | 96.3 | 97.9 | 98.8 | 103.2 | 110.7 | 118.0 | 118.7 | 116.4 | 114.4 | 153.6 | | | | | |
| 1000 | 96.9 | 97.5 | 98.2 | 97.8 | 97.9 | 98.7 | 98.9 | 103.0 | 111.7 | 118.8 | 118.0 | 116.2 | 113.2 | 153.3 | | | | | |
| 1250 | 96.3 | 98.1 | 99.6 | 99.9 | 101.2 | 101.8 | 102.2 | 106.4 | 113.3 | 119.4 | 118.6 | 116.3 | 112.8 | 154.4 | | | | | |
| 1600 | 98.4 | 99.2 | 98.7 | 98.2 | 100.1 | 101.9 | 102.6 | 107.0 | 114.2 | 119.3 | 119.2 | 115.1 | 111.7 | 154.5 | | | | | |
| 2000 | 104.9 | 103.5 | 100.5 | 98.8 | 100.3 | 101.5 | 103.3 | 107.5 | 114.5 | 119.8 | 118.0 | 113.7 | 110.7 | 154.4 | | | | | |
| 2500 | 108.5 | 106.8 | 105.3 | 103.4 | 102.5 | 102.1 | 105.0 | 109.4 | 113.6 | 120.4 | 116.6 | 112.5 | 109.1 | 154.6 | | | | | |
| 3150 | 106.5 | 106.5 | 107.3 | 107.3 | 105.2 | 104.3 | 104.7 | 109.1 | 114.1 | 118.1 | 115.3 | 112.3 | 108.0 | 154.6 | | | | | |
| 4000 | 104.0 | 104.8 | 105.3 | 105.9 | 108.4 | 106.8 | 105.4 | 108.6 | 112.6 | 117.9 | 113.9 | 110.3 | 106.6 | 153.1 | | | | | |
| 5000 | 103.1 | 103.4 | 104.5 | 105.0 | 106.8 | 108.4 | 107.3 | 110.0 | 113.0 | 116.1 | 112.8 | 109.7 | 106.2 | 152.4 | | | | | |
| 6300 | 101.9 | 102.3 | 104.1 | 103.8 | 105.6 | 107.0 | 108.1 | 110.1 | 112.6 | 115.2 | 111.1 | 109.0 | 105.0 | 151.8 | | | | | |
| 8000 | 100.2 | 101.1 | 102.9 | 102.9 | 106.0 | 106.1 | 108.0 | 110.1 | 112.6 | 115.7 | 111.2 | 108.8 | 104.1 | 151.6 | | | | | |
| 10000 | 98.9 | 100.2 | 101.6 | 101.8 | 104.6 | 105.0 | 107.4 | 109.1 | 111.6 | 113.0 | 109.6 | 106.5 | 102.7 | 150.8 | | | | | |
| 12500 | 96.6 | 97.3 | 100.1 | 100.9 | 103.2 | 104.5 | 105.2 | 106.5 | 110.4 | 110.6 | 107.7 | 105.5 | 100.0 | 149.5 | | | | | |
| 16000 | 95.1 | 95.8 | 99.0 | 98.7 | 101.5 | 102.8 | 104.5 | 105.5 | 109.5 | 109.3 | 106.9 | 104.2 | 99.1 | 149.2 | | | | | |
| 20000 | 91.1 | 91.8 | 95.2 | 94.8 | 99.1 | 98.4 | 101.8 | 102.2 | 107.0 | 106.5 | 103.6 | 99.8 | 95.4 | 147.2 | | | | | |
| 25000 | 89.0 | 89.9 | 92.3 | 90.8 | 95.5 | 97.6 | 97.3 | 99.5 | 103.0 | 103.9 | 102.0 | 95.8 | 92.8 | 145.7 | | | | | |
| 31500 | 87.9 | 87.2 | 92.1 | 90.3 | 93.3 | 95.3 | 96.0 | 96.6 | 103.4 | 101.9 | 99.2 | 96.3 | 91.2 | 146.5 | | | | | |
| 40000 | 82.9 | 81.5 | 86.1 | 83.7 | 88.0 | 89.8 | 90.8 | 92.4 | 100.7 | 100.3 | 95.0 | 91.7 | 84.0 | 146.5 | | | | | |
| 50000 | 75.5 | 74.4 | 78.1 | 76.1 | 80.2 | 82.3 | 82.8 | 85.6 | 95.4 | 95.3 | 89.5 | 84.2 | 75.8 | 145.1 | | | | | |
| 63000 | 66.6 | 68.8 | 69.4 | 68.9 | 72.6 | 75.6 | 75.6 | 80.9 | 91.2 | 92.5 | 83.2 | 77.0 | 67.3 | 147.4 | | | | | |
| 80000 | 61.0 | 62.7 | 66.1 | 63.5 | 66.0 | 70.3 | 71.5 | 74.7 | 88.8 | 89.3 | 81.1 | 71.0 | 64.1 | 153.8 | | | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 114.1 | 114.0 | 114.4 | 114.3 | 115.8 | 116.3 | 117.2 | 120.0 | 124.6 | 129.5 | 128.4 | 126.4 | 123.7 | 165.8 | | | | | |
| P.N.D.B | 127.7 | 127.5 | 128.0 | 127.9 | 129.2 | 129.1 | 129.2 | 132.3 | 137.1 | 142.1 | 139.9 | 137.4 | 134.1 | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 2 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PMU |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 50 | 67.2 | 90.4 | 90.9 | 91.2 | 93.3 | 95.2 | 98.1 | 101.0 | 105.7 | 110.0 | 114.5 | 115.6 | 114.2 |
| RADIAL 150. FT. | 63 | 87.3 | 92.0 | 91.5 | 92.3 | 94.4 | 96.5 | 97.9 | 100.6 | 106.5 | 111.6 | 115.3 | 117.2 | 115.3 |
| RADIAL (46. M) | 100 | 91.6 | 92.9 | 93.9 | 94.4 | 97.5 | 98.6 | 100.3 | 103.7 | 110.4 | 117.5 | 119.2 | 119.6 | 116.6 |
| VEHICLE CELL41 | 160 | 96.0 | 96.3 | 96.8 | 96.8 | 99.6 | 101.3 | 102.1 | 106.5 | 114.0 | 121.3 | 122.0 | 119.7 | 117.8 |
| CONFIG NC79 | 200 | 100.3 | 100.8 | 101.6 | 101.1 | 101.2 | 102.1 | 104.2 | 108.4 | 115.1 | 122.2 | 121.4 | 119.6 | 116.6 |
| LOC C41 ANECH CH | 250 | 99.6 | 101.4 | 102.9 | 103.2 | 104.6 | 105.2 | 105.6 | 109.7 | 116.7 | 122.8 | 122.0 | 119.6 | 116.2 |
| DATE 09-01-76 | 315 | 101.8 | 102.5 | 102.0 | 101.6 | 103.4 | 105.3 | 105.9 | 110.3 | 117.5 | 122.6 | 122.6 | 118.5 | 115.0 |
| RUN CONZLOWFLOW | 400 | 108.3 | 106.8 | 103.8 | 102.1 | 103.7 | 104.8 | 106.7 | 110.9 | 117.8 | 123.2 | 121.4 | 117.1 | 114.1 |
| TAPE X00020 | 500 | 111.9 | 110.2 | 108.7 | 106.8 | 105.8 | 105.5 | 108.3 | 112.8 | 117.0 | 123.8 | 120.0 | 115.9 | 112.5 |
| BAR 29.4 HG | 630 | 109.9 | 110.0 | 110.7 | 110.5 | 108.6 | 107.7 | 108.1 | 112.5 | 117.5 | 121.6 | 118.8 | 115.7 | 111.5 |
| (99381, N/M2) | 800 | 107.5 | 108.3 | 108.8 | 109.3 | 111.9 | 110.3 | 108.9 | 112.1 | 116.1 | 121.4 | 117.3 | 113.8 | 110.0 |
| TAMB 62. DEG F | 1000 | 106.6 | 106.9 | 108.0 | 108.5 | 110.3 | 111.9 | 110.8 | 113.5 | 116.5 | 119.5 | 116.2 | 113.1 | 109.7 |
| (290, DEG K) | 1250 | 105.5 | 105.8 | 107.6 | 107.4 | 109.2 | 110.6 | 111.7 | 113.6 | 115.1 | 118.7 | 114.7 | 112.6 | 108.6 |
| TWET 60. DEG F | 1600 | 104.0 | 104.8 | 106.3 | 106.6 | 109.7 | 109.8 | 111.7 | 113.9 | 116.4 | 117.5 | 114.9 | 112.5 | 107.8 |
| (289, DEG K) | 2000 | 102.8 | 104.2 | 105.5 | 105.8 | 108.6 | 109.0 | 111.3 | 113.0 | 115.5 | 116.9 | 113.6 | 110.5 | 106.7 |
| HACT12.67 GM/M3 | 2500 | 100.9 | 101.6 | 104.5 | 105.2 | 107.5 | 108.8 | 109.5 | 110.8 | 114.7 | 114.9 | 112.0 | 109.9 | 104.3 |
| (.01267 KG/M3) | 3150 | 100.0 | 100.7 | 103.9 | 103.6 | 106.4 | 107.7 | 109.4 | 110.4 | 114.4 | 114.1 | 111.8 | 109.0 | 104.0 |
| FREQ. SHIFT | 4000 | 96.7 | 97.4 | 100.8 | 100.4 | 104.7 | 104.0 | 107.4 | 107.8 | 112.5 | 112.1 | 109.1 | 105.3 | 101.0 |
| JET | 5000 | 95.8 | 96.7 | 99.1 | 97.7 | 102.4 | 104.5 | 104.1 | 106.3 | 109.9 | 110.8 | 108.8 | 102.6 | 99.7 |
| DIAMETER RATIO | 6300 | 96.4 | 95.6 | 100.5 | 98.7 | 101.8 | 103.7 | 104.4 | 105.1 | 111.3 | 110.4 | 107.7 | 104.7 | 99.7 |
| DF/DW 5.51 | 8000 | 93.7 | 92.3 | 96.9 | 94.5 | 98.8 | 100.6 | 101.5 | 103.2 | 111.4 | 111.0 | 105.8 | 102.5 | 94.8 |
| 10000 | 89.3 | 88.2 | 91.9 | 90.0 | 94.1 | 96.2 | 96.7 | 99.4 | 109.2 | 109.2 | 103.3 | 98.0 | 89.6 | |
| 12500 | 84.9 | 87.1 | 87.7 | 87.1 | 90.9 | 93.8 | 93.9 | 99.2 | 109.5 | 110.8 | 101.5 | 95.3 | 85.6 | |
| 16000 | 85.6 | 87.4 | 90.7 | 88.1 | 90.6 | 95.0 | 96.1 | 99.4 | 113.5 | 113.9 | 105.7 | 95.7 | 88.7 | |
| OVERALL CALCULATED | 117.7 | 117.5 | 118.1 | 118.0 | 119.6 | 120.1 | 121.1 | 123.8 | 128.6 | 133.0 | 131.9 | 129.7 | 126.8 | |
| PNOB | 126.9 | 127.1 | 129.0 | 128.8 | 131.1 | 132.1 | 133.4 | 135.3 | 139.9 | 141.9 | 139.8 | 137.1 | 133.0 | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 2 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(53in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F., 70 PERCENT REL. HUM. DAY)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (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) |
| SIDELINE 2400. FT. | 59.0 | 63.8 | 65.4 | 66.4 | 68.9 | 70.9 | 73.7 | 76.2 | 83.2 | 83.4 | 86.3 | 85.2 | 80.3 |
| (731.52 ft) | 63 | 59.5 | 65.4 | 67.4 | 68.7 | 71.2 | 72.7 | 74.0 | 81.0 | 84.9 | 87.1 | 86.7 | 81.3 |
| NFA (0. RAD/SEC) | 60 | 62.0 | 65.3 | 67.4 | 68.5 | 73.0 | 74.2 | 75.7 | 81.9 | 88.1 | 90.8 | 88.1 | 81.9 |
| NFK (0. RPM) | 125 | 64.9 | 68.1 | 69.4 | 71.0 | 73.5 | 74.8 | 76.2 | 80.0 | 86.2 | 92.1 | 92.2 | 88.0 |
| NFD (7500. RPM) | 200 | 67.2 | 69.2 | 70.6 | 74.9 | 76.7 | 77.4 | 81.4 | 88.1 | 94.3 | 93.3 | 88.5 | 82.8 |
| (785. RAD/SEC) | 315 | 71.4 | 73.6 | 75.5 | 76.3 | 77.4 | 79.3 | 83.1 | 89.0 | 94.9 | 92.4 | 88.1 | 81.2 |
| ATRFLOW RATIO | 500 | 70.4 | 74.0 | 76.7 | 77.7 | 79.5 | 80.5 | 84.2 | 90.4 | 95.3 | 92.3 | 87.9 | 80.3 |
| WF/WM 5.51 | 800 | 78.3 | 78.7 | 77.0 | 78.2 | 80.2 | 80.7 | 84.6 | 91.0 | 94.9 | 93.0 | 86.3 | 78.5 |
| VEHICLE | 1000 | 73.4 | 78.4 | 80.4 | 81.9 | 83.6 | 84.6 | 86.9 | 91.0 | 95.1 | 91.4 | 84.3 | 76.7 |
| CONFIG | 1250 | 71.0 | 73.9 | 77.5 | 78.3 | 80.0 | 81.6 | 85.7 | 89.7 | 95.2 | 89.5 | 82.5 | 74.1 |
| LOC C41 ANECH CH | 1600 | 67.5 | 71.3 | 75.0 | 76.2 | 78.0 | 80.3 | 82.3 | 85.7 | 89.7 | 87.6 | 81.3 | 71.8 |
| DATE 09-01-76 | 2000 | 64.0 | 68.0 | 72.3 | 73.9 | 77.4 | 78.0 | 82.0 | 84.7 | 87.7 | 85.2 | 78.2 | 68.6 |
| RUN CON2LOWFLOW | 2500 | 58.8 | 63.3 | 68.7 | 71.0 | 74.2 | 75.8 | 82.0 | 84.7 | 87.3 | 88.8 | 83.1 | 76.2 |
| TAPE X00020 | 3150 | 52.5 | 58.0 | 64.2 | 65.8 | 69.6 | 71.3 | 76.2 | 84.6 | 86.0 | 86.8 | 80.1 | 73.9 |
| FAN TIP SPEED | 4000 | 41.1 | 48.0 | 55.2 | 57.2 | 62.8 | 62.5 | 64.6 | 84.8 | 84.0 | 78.4 | 71.3 | 58.0 |
| FT/SEC | 5000 | 35.5 | 43.4 | 50.1 | 51.3 | 57.5 | 60.1 | 66.0 | 81.1 | 82.3 | 81.5 | 74.8 | 66.2 |
| | 6000 | 22.3 | 30.8 | 41.5 | 43.2 | 48.1 | 50.7 | 50.8 | 79.0 | 76.6 | 69.9 | 61.3 | 43.7 |
| | 8000 | 9.9 | 22.4 | 24.7 | 24.7 | 31.7 | 34.3 | 34.4 | 67.0 | 71.4 | 64.2 | 53.5 | 33.0 |
| | 10000 | 0.5 | 0.5 | 3.2 | 3.2 | 11.4 | 10.6 | 10.0 | 57.4 | 48.5 | 30.5 | 30.5 | 4.2 |
| OVERALL CALCULATED | 86.2 | 87.8 | 89.3 | 90.0 | 91.6 | 92.2 | 92.8 | 95.6 | 100.1 | 104.4 | 102.1 | 97.8 | 91.3 |
| PND8 | 92.2 | 94.2 | 96.3 | 97.3 | 99.6 | 100.3 | 101.5 | 103.5 | 106.6 | 109.7 | 106.2 | 100.3 | 92.1 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 2 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

MODEL SOUND PRESSURE LEVELS (S9, DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 FREQ. (C.79)(C.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)(3.15)(3.3) PHL
 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

| NO | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| NO 50A | 76.1 | 87.4 | 86.4 | 86.5 | 88.8 | 88.7 | 85.5 | 89.2 | 92.7 | 92.5 | 96.2 | 96.1 | 97.4 | 133.5 | | |
| NO 50B | 77.6 | 88.4 | 90.1 | 92.2 | 94.0 | 91.6 | 97.7 | 91.7 | 99.4 | 97.4 | 102.1 | 104.1 | 104.4 | 140.0 | | |
| NO 50C | 77.4 | 83.4 | 85.7 | 85.7 | 88.5 | 86.7 | 90.0 | 88.5 | 94.7 | 97.0 | 101.2 | 102.1 | 102.9 | 137.3 | | |
| NO 50D | 81.0 | 83.0 | 83.8 | 84.2 | 87.5 | 87.5 | 88.2 | 91.0 | 93.6 | 99.9 | 102.6 | 106.3 | 106.6 | 139.5 | | |
| NO 50E | 81.5 | 84.3 | 85.3 | 85.4 | 87.0 | 83.6 | 91.0 | 93.6 | 96.5 | 102.4 | 107.4 | 110.3 | 107.6 | 144.5 | | |
| NO 50F | 82.4 | 86.4 | 85.9 | 87.2 | 89.3 | 91.2 | 92.3 | 95.0 | 99.7 | 105.0 | 109.5 | 110.6 | 109.9 | 147.5 | | |
| NO 50G | 84.9 | 86.2 | 87.5 | 87.5 | 89.1 | 92.2 | 93.6 | 97.0 | 102.5 | 108.5 | 113.5 | 112.4 | 110.5 | 148.3 | | |
| NO 50H | 85.5 | 87.3 | 88.5 | 88.6 | 92.2 | 93.5 | 94.7 | 98.6 | 104.5 | 110.6 | 113.6 | 113.2 | 111.3 | 149.3 | | |
| NO 50I | 87.6 | 89.9 | 89.4 | 90.2 | 92.5 | 93.9 | 95.5 | 99.9 | 105.6 | 112.0 | 114.7 | 113.1 | 111.6 | 152.7 | | |
| NO 50J | 95.4 | 92.4 | 91.4 | 91.7 | 94.3 | 95.9 | 97.0 | 100.7 | 107.9 | 114.2 | 116.4 | 113.4 | 111.9 | 151.3 | | |
| NO 50K | 95.2 | 95.2 | 96.0 | 95.3 | 94.1 | 97.0 | 98.1 | 102.3 | 109.5 | 115.6 | 116.5 | 113.5 | 111.7 | 151.9 | | |
| NO 50L | 94.0 | 95.8 | 97.1 | 97.9 | 98.9 | 99.6 | 100.4 | 103.9 | 110.3 | 116.1 | 116.9 | 113.5 | 111.6 | 151.7 | | |
| NO 50M | 93.6 | 94.7 | 94.9 | 95.5 | 97.8 | 99.4 | 100.6 | 104.0 | 110.4 | 115.8 | 117.0 | 112.6 | 111.4 | 151.7 | | |
| NO 50N | 96.2 | 95.5 | 96.5 | 96.3 | 99.3 | 99.5 | 101.3 | 105.0 | 111.0 | 116.3 | 116.5 | 111.7 | 110.0 | 151.7 | | |
| NO 50O | 97.8 | 97.3 | 97.9 | 97.9 | 99.7 | 99.6 | 102.7 | 106.4 | 110.6 | 116.4 | 116.1 | 111.0 | 109.1 | 151.6 | | |
| NO 50P | 98.8 | 98.8 | 98.8 | 98.9 | 100.4 | 100.3 | 101.9 | 106.1 | 109.3 | 114.2 | 114.4 | 109.8 | 108.5 | 151.2 | | |
| NO 50Q | 96.4 | 96.9 | 98.5 | 99.2 | 101.1 | 101.2 | 102.6 | 106.5 | 109.7 | 112.3 | 113.5 | 108.2 | 106.4 | 149.5 | | |
| NO 50R | 95.2 | 96.5 | 97.3 | 97.3 | 100.4 | 100.4 | 103.4 | 106.6 | 109.0 | 110.9 | 111.6 | 107.5 | 105.5 | 148.6 | | |
| NO 50S | 93.7 | 94.3 | 96.1 | 96.9 | 99.7 | 101.1 | 103.4 | 106.9 | 109.1 | 111.7 | 112.1 | 107.3 | 104.8 | 148.6 | | |
| NO 50T | 92.6 | 93.0 | 95.7 | 95.6 | 98.6 | 100.2 | 102.9 | 104.8 | 107.8 | 109.5 | 109.6 | 105.2 | 103.0 | 147.5 | | |
| NO 50U | 90.1 | 90.5 | 93.6 | 94.3 | 97.4 | 99.3 | 100.9 | 102.7 | 106.6 | 107.1 | 108.2 | 103.3 | 101.0 | 145.7 | | |
| NO 50V | 88.4 | 88.6 | 92.7 | 92.4 | 96.0 | 97.6 | 100.2 | 101.7 | 105.2 | 105.2 | 106.4 | 103.4 | 99.8 | 143.5 | | |
| NO 50W | 84.1 | 85.1 | 89.2 | 88.0 | 93.6 | 93.4 | 97.3 | 97.9 | 102.0 | 102.2 | 103.0 | 98.5 | 95.9 | 142.3 | | |
| NO 50X | 82.4 | 82.3 | 85.0 | 84.0 | 89.0 | 92.6 | 92.6 | 94.9 | 98.7 | 99.1 | 101.7 | 96.7 | 93.3 | 142.3 | | |
| NO 50Y | 81.1 | 79.9 | 84.3 | 82.5 | 87.0 | 93.2 | 90.9 | 91.3 | 98.3 | 97.6 | 99.1 | 94.7 | 90.9 | 141.9 | | |
| NO 50Z | 76.3 | 77.0 | 78.8 | 76.3 | 80.7 | 84.2 | 84.9 | 86.6 | 93.3 | 94.9 | 94.9 | 90.8 | 84.7 | 140.2 | | |
| NO 50AA | 67.4 | 66.5 | 69.4 | 67.0 | 73.1 | 75.5 | 75.7 | 79.7 | 89.0 | 80.2 | 89.1 | 83.3 | 76.7 | 141.9 | | |
| NO 50AB | 58.5 | 60.1 | 60.2 | 58.4 | 63.7 | 67.6 | 68.2 | 73.5 | 85.7 | 86.3 | 81.7 | 77.1 | 67.9 | 147.6 | | |
| NO 50AC | 52.8 | 56.1 | 54.9 | 53.3 | 55.8 | 62.9 | 64.6 | 65.0 | 82.5 | 80.5 | 80.1 | 74.1 | 63.6 | 162.7 | | |
| OVERALL MEASURED | 107.2 | 107.6 | 108.4 | 108.6 | 110.8 | 111.7 | 113.6 | 114.8 | 121.3 | 125.9 | 127.0 | 123.8 | 122.3 | | | |
| OVERALL CALCULATED | 121.1 | 121.1 | 121.4 | 120.6 | 123.5 | 124.0 | 125.7 | 129.5 | 133.8 | 138.4 | 130.0 | 135.2 | 133.6 | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 3 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

| RDG. NO. | NO. EGA | FREQ. | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS) | | | | PWL | | | | | | | | | | | | |
|----------|---------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 40. | 50. | 60. | 70. | | 80. | | | | | | | | | | | |
| 50 | 84.7 | 87.7 | 88.7 | 89.6 | 90.6 | 91.9 | 94.3 | 97.0 | 100.2 | 105.7 | 110.7 | 116.6 | 121.2 | 125.0 | 130.0 | 140.0 | 150.0 | 160.0 | 157.4 |
| 63 | 85.8 | 89.8 | 89.3 | 90.6 | 92.7 | 94.5 | 95.7 | 98.3 | 103.3 | 108.3 | 112.8 | 116.8 | 119.8 | 122.8 | 125.8 | 130.8 | 140.8 | 150.8 | 159.6 |
| 80 | 88.3 | 89.6 | 90.6 | 91.9 | 93.5 | 95.4 | 96.4 | 98.0 | 101.9 | 107.0 | 111.9 | 115.8 | 118.8 | 121.8 | 124.8 | 129.8 | 139.8 | 149.8 | 162.3 |
| 100 | 88.9 | 90.6 | 91.9 | 93.5 | 95.4 | 97.2 | 98.9 | 101.5 | 105.6 | 110.6 | 115.3 | 118.8 | 121.8 | 124.8 | 127.8 | 132.8 | 142.8 | 152.8 | 163.2 |
| 125 | 93.7 | 93.8 | 94.8 | 95.5 | 97.6 | 99.3 | 100.7 | 103.0 | 106.1 | 109.8 | 114.0 | 117.5 | 120.5 | 123.5 | 126.5 | 131.5 | 141.5 | 151.5 | 164.3 |
| 150 | 93.7 | 93.8 | 94.8 | 95.5 | 97.6 | 99.3 | 100.7 | 103.0 | 106.1 | 109.8 | 114.0 | 117.5 | 120.5 | 123.5 | 126.5 | 131.5 | 141.5 | 151.5 | 166.5 |
| 200 | 98.6 | 98.6 | 99.3 | 98.6 | 99.5 | 100.3 | 101.5 | 103.3 | 107.0 | 110.1 | 112.6 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.7 |
| 250 | 97.4 | 99.2 | 100.4 | 101.2 | 102.3 | 102.9 | 103.8 | 104.7 | 107.2 | 110.2 | 112.8 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 315 | 97.0 | 98.0 | 98.3 | 98.8 | 101.2 | 102.8 | 103.9 | 107.3 | 107.3 | 109.6 | 112.8 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 400 | 99.6 | 99.8 | 99.9 | 99.6 | 101.7 | 102.8 | 104.7 | 108.4 | 108.4 | 109.6 | 112.8 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 500 | 101.4 | 101.2 | 100.7 | 101.3 | 103.1 | 103.0 | 106.1 | 109.8 | 109.8 | 110.1 | 112.6 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 630 | 103.7 | 102.5 | 102.7 | 101.5 | 102.3 | 103.7 | 105.1 | 109.0 | 109.0 | 110.1 | 112.6 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 800 | 101.7 | 102.3 | 102.3 | 102.3 | 102.3 | 103.9 | 103.8 | 105.4 | 109.6 | 109.6 | 112.8 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 1000 | 99.9 | 100.4 | 100.4 | 100.4 | 102.0 | 102.7 | 104.6 | 104.7 | 106.1 | 110.0 | 112.6 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 166.5 |
| 1250 | 98.8 | 100.1 | 101.1 | 100.9 | 104.0 | 105.3 | 107.0 | 107.0 | 110.1 | 112.6 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 142.2 | 166.5 |
| 1600 | 97.5 | 98.0 | 99.9 | 100.6 | 103.4 | 104.8 | 107.2 | 109.6 | 109.6 | 112.8 | 114.5 | 115.2 | 116.9 | 118.9 | 122.2 | 132.2 | 142.2 | 142.2 | 166.5 |
| 2000 | 96.6 | 96.9 | 99.3 | 99.5 | 102.6 | 104.2 | 106.8 | 108.8 | 108.8 | 111.8 | 113.4 | 113.6 | 113.6 | 113.6 | 113.6 | 113.6 | 113.6 | 113.6 | 166.5 |
| 2500 | 94.4 | 94.8 | 97.9 | 98.7 | 101.7 | 103.6 | 105.2 | 107.1 | 110.9 | 111.4 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 166.5 |
| 3150 | 93.2 | 93.4 | 97.6 | 97.3 | 102.8 | 102.6 | 105.1 | 106.6 | 110.1 | 110.1 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 166.5 |
| 4000 | 89.7 | 90.6 | 94.7 | 93.6 | 99.1 | 99.0 | 102.9 | 103.5 | 108.5 | 107.8 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 166.5 |
| 5000 | 89.3 | 89.2 | 91.8 | 90.9 | 96.8 | 96.8 | 99.4 | 99.3 | 101.8 | 105.6 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 166.5 |
| 6300 | 89.5 | 88.3 | 92.7 | 90.9 | 95.4 | 95.4 | 98.6 | 99.3 | 99.7 | 106.7 | 106.0 | 107.6 | 107.6 | 107.6 | 107.6 | 107.6 | 107.6 | 107.6 | 166.5 |
| 8000 | 87.1 | 84.7 | 89.6 | 87.1 | 91.4 | 95.0 | 95.7 | 95.7 | 95.7 | 106.1 | 105.7 | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 166.5 |
| 10000 | 81.2 | 80.3 | 83.3 | 85.3 | 85.9 | 89.3 | 89.5 | 89.5 | 93.5 | 102.8 | 104.0 | 101.9 | 97.1 | 90.5 | 86.2 | 86.2 | 86.2 | 86.2 | 166.5 |
| 12500 | 76.8 | 78.4 | 78.5 | 76.7 | 82.0 | 85.9 | 86.5 | 86.5 | 91.8 | 104.0 | 104.6 | 100.0 | 95.4 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 166.5 |
| 16000 | 77.4 | 80.7 | 79.5 | 77.9 | 80.4 | 87.5 | 89.2 | 89.2 | 89.7 | 107.3 | 105.4 | 104.7 | 98.7 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 166.5 |
| 20000 | 110.8 | 111.1 | 112.0 | 112.1 | 114.4 | 115.5 | 117.3 | 120.4 | 125.1 | 129.4 | 130.3 | 127.1 | 125.5 | 125.5 | 125.5 | 125.5 | 125.5 | 125.5 | 166.5 |
| PMD8 | 120.2 | 120.5 | 122.9 | 122.8 | 125.9 | 127.3 | 129.4 | 131.7 | 136.0 | 138.1 | 139.2 | 135.4 | 132.9 | 132.9 | 132.9 | 132.9 | 132.9 | 132.9 | 166.5 |

OVERALL CALCULATED 110.8 111.1 112.0 112.1 114.4 115.5 117.3 120.4 125.1 129.4 130.3 127.1 125.5
 PMDB 120.2 120.5 122.9 122.8 125.9 127.3 129.4 131.7 136.0 138.1 139.2 135.4 132.9

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 3 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m(131in²)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| VO EGA | 56.5 | 61.1 | 63.2 | 63.9 | 65.9 | 67.7 | 69.9 | 72.2 | 74.7 | 79.1 | 82.5 | 81.2 | 77.3 |
| SIDELINE (73.52 M) | 57.5 | 63.1 | 63.7 | 65.7 | 68.2 | 70.2 | 71.3 | 73.5 | 77.5 | 81.7 | 84.6 | 83.5 | 79.3 |
| VFA (1. RPM) | 62.0 | 63.8 | 65.2 | 65.9 | 69.0 | 71.2 | 72.5 | 75.4 | 81.2 | 85.1 | 88.5 | 85.1 | 79.6 |
| VFX (1. RPM) | 62.4 | 65.3 | 66.9 | 68.5 | 71.2 | 72.8 | 74.2 | 78.2 | 83.2 | 88.4 | 89.5 | 85.5 | 80.4 |
| VFD (750 RPM) | 65.0 | 66.7 | 68.8 | 69.9 | 72.9 | 74.7 | 75.7 | 78.9 | 85.3 | 90.5 | 91.0 | 85.5 | 80.3 |
| VELOCITY RATIO | 69.6 | 71.3 | 73.3 | 73.3 | 74.6 | 75.6 | 76.6 | 80.3 | 86.8 | 91.7 | 90.9 | 85.1 | 79.7 |
| VEHICLE CONFIG | 68.2 | 71.7 | 74.2 | 75.7 | 77.3 | 78.0 | 78.8 | 81.7 | 87.4 | 92.0 | 91.0 | 85.1 | 79.1 |
| LDC (41 AVECH CH) | 67.5 | 71.3 | 71.8 | 73.1 | 75.9 | 77.7 | 78.7 | 81.6 | 87.3 | 91.4 | 90.9 | 83.8 | 78.3 |
| RUN CONVELOWEF | 69.6 | 71.7 | 73.0 | 73.6 | 76.2 | 77.5 | 79.2 | 82.4 | 87.5 | 91.6 | 89.9 | 82.3 | 76.0 |
| TAPE X 2.33 | 70.9 | 72.6 | 73.5 | 74.9 | 77.2 | 77.2 | 80.2 | 83.4 | 86.7 | 91.2 | 89.0 | 81.0 | 74.1 |
| FAN TIP SPEED | 72.5 | 73.3 | 74.5 | 74.7 | 76.0 | 77.6 | 78.2 | 83.2 | 86.2 | 88.7 | 87.1 | 78.8 | 72.3 |
| OVERALL CALCULATED | 69.6 | 72.4 | 73.9 | 74.9 | 77.0 | 77.1 | 78.5 | 82.2 | 84.4 | 87.8 | 85.7 | 77.2 | 68.6 |
| PHD3 | 66.7 | 69.6 | 72.8 | 74.6 | 77.0 | 77.3 | 78.5 | 81.8 | 84.0 | 85.0 | 83.8 | 74.7 | 66.4 |
| | 64.2 | 69.2 | 71.0 | 71.3 | 75.5 | 77.1 | 78.5 | 81.1 | 82.6 | 82.6 | 80.6 | 72.4 | 63.0 |
| | 61.1 | 64.5 | 68.3 | 70.2 | 73.7 | 75.3 | 77.5 | 79.2 | 81.3 | 80.9 | 78.7 | 69.8 | 58.7 |
| | 57.3 | 61.5 | 65.0 | 67.6 | 71.4 | 73.3 | 75.7 | 76.9 | 78.5 | 78.0 | 74.8 | 65.0 | 52.7 |
| | 52.3 | 56.5 | 62.2 | 64.5 | 68.4 | 70.5 | 71.9 | 72.9 | 75.2 | 73.1 | 70.4 | 59.5 | 44.6 |
| | 45.7 | 51.7 | 59.5 | 64.1 | 66.0 | 68.4 | 68.4 | 67.4 | 63.7 | 52.7 | 33.7 | 15.0 | 4.7 |
| | 34.1 | 41.2 | 49.1 | 52.4 | 57.2 | 57.5 | 61.0 | 60.3 | 62.9 | 58.3 | 53.0 | 38.0 | 15.0 |
| | 29.7 | 35.0 | 43.8 | 44.5 | 52.0 | 55.3 | 54.5 | 55.4 | 56.6 | 52.6 | 48.2 | 29.4 | 4.7 |
| | 15.5 | 23.5 | 33.6 | 35.3 | 41.8 | 45.6 | 45.7 | 44.2 | 47.7 | 41.2 | 33.5 | 13.2 | |
| | 2.3 | 15.0 | 17.4 | 24.3 | 28.7 | 28.7 | 28.6 | 27.6 | 31.6 | 23.3 | 10.5 | | |
| | | | | 3.0 | 4.5 | 4.5 | 3.6 | 4.1 | 6.8 | | | | |
| OVERALL CALCULATED | 79.4 | 81.7 | 83.5 | 84.6 | 87.0 | 88.1 | 89.6 | 92.7 | 96.9 | 100.8 | 100.4 | 95.0 | 89.5 |
| PHD3 | 65.0 | 67.4 | 69.8 | 71.1 | 74.4 | 75.8 | 77.7 | 79.9 | 103.2 | 106.0 | 104.7 | 97.8 | 90.9 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

| CONFIGURATION | TEST POINT | ACOUSTIC RANGE | SIZE |
|---------------|------------|--------------------------|--|
| CONICAL | 3 | 731.5m(2400FT.) SIDELINE | FULL-.33m ² (513IN ²) |

FULL SCALE DATA ACQUISITION PROGRAM
 FULL SIZE SOUND PRESSURE-LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

| NO | ETA | RDG. NO. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|-------|-------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| | | | (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.) |
| 53 | | 78.1 | 84.8 | 87.6 | 90.2 | 90.3 | 89.7 | 90.1 | 93.6 | 94.5 | 97.9 | 97.8 | 99.1 | 135.0 | | |
| 30 | | 77.5 | 85.3 | 87.5 | 91.2 | 90.5 | 91.7 | 91.6 | 95.3 | 93.6 | 98.6 | 101.2 | 101.5 | 136.4 | | |
| 120 | VEHICLE | 83.3 | 85.6 | 85.4 | 87.5 | 87.8 | 88.0 | 89.0 | 92.6 | 94.3 | 97.9 | 100.9 | 102.3 | 137.3 | | |
| 125 | CONF16 | 82.4 | 83.5 | 85.0 | 87.3 | 89.0 | 88.8 | 89.6 | 96.5 | 100.5 | 103.2 | 106.9 | 107.0 | 140.6 | | |
| 160 | LCC | 82.5 | 85.7 | 86.3 | 87.9 | 89.2 | 92.1 | 94.3 | 97.5 | 102.8 | 107.8 | 109.5 | 108.7 | 143.3 | | |
| 200 | DATE | 83.6 | 87.6 | 86.8 | 87.9 | 90.5 | 92.1 | 93.5 | 95.6 | 101.1 | 106.7 | 110.4 | 111.3 | 146.1 | | |
| 250 | CONF1 | 86.4 | 88.1 | 89.4 | 91.5 | 92.9 | 94.5 | 98.4 | 103.1 | 110.4 | 114.2 | 113.6 | 111.6 | 148.6 | | |
| 315 | CON4LOWFLOW | 86.7 | 88.5 | 90.0 | 93.1 | 94.0 | 95.6 | 99.5 | 104.7 | 112.8 | 114.5 | 114.9 | 112.0 | 149.7 | | |
| 400 | TAF | 89.0 | 91.1 | 91.1 | 93.7 | 95.1 | 96.4 | 100.1 | 105.1 | 113.9 | 116.1 | 114.0 | 113.1 | 150.5 | | |
| 500 | CON340 | 91.0 | 91.6 | 92.1 | 92.6 | 95.5 | 97.8 | 97.7 | 101.6 | 108.3 | 115.7 | 117.1 | 115.0 | 151.8 | | |
| 630 | TRK3 | 95.0 | 95.4 | 97.7 | 96.2 | 97.3 | 99.8 | 103.4 | 109.4 | 116.7 | 117.7 | 115.1 | 113.7 | 152.5 | | |
| 800 | TRK3 | 94.7 | 95.7 | 98.0 | 99.0 | 100.4 | 101.2 | 101.4 | 104.5 | 110.0 | 116.2 | 118.0 | 113.5 | 152.9 | | |
| 1000 | TRK3 | 93.6 | 95.4 | 95.9 | 96.6 | 98.7 | 100.4 | 101.0 | 104.6 | 110.4 | 116.4 | 118.6 | 115.3 | 152.9 | | |
| 1250 | TRK3 | 90.9 | 97.4 | 98.2 | 97.4 | 95.3 | 100.4 | 101.5 | 105.9 | 110.9 | 116.7 | 118.7 | 114.9 | 153.1 | | |
| 1600 | TRK3 | 95.2 | 98.0 | 97.5 | 93.6 | 100.7 | 102.7 | 106.8 | 110.3 | 116.9 | 118.1 | 114.0 | 111.3 | 152.7 | | |
| 2000 | TRK3 | 90.0 | 95.5 | 97.5 | 93.1 | 97.6 | 102.6 | 106.8 | 110.5 | 114.4 | 117.3 | 110.4 | 103.5 | 151.8 | | |
| 2500 | TRK3 | 95.0 | 96.6 | 97.1 | 99.4 | 101.1 | 102.2 | 105.6 | 109.8 | 114.2 | 115.6 | 112.3 | 108.3 | 150.8 | | |
| 3150 | TRK3 | 94.5 | 94.9 | 97.7 | 99.5 | 100.9 | 102.5 | 107.0 | 110.4 | 112.5 | 115.2 | 111.4 | 107.7 | 150.4 | | |
| 4000 | TRK3 | 93.3 | 94.3 | 96.4 | 96.9 | 99.5 | 100.8 | 102.5 | 106.4 | 109.6 | 111.7 | 112.9 | 110.8 | 149.2 | | |
| 5000 | TRK3 | 92.1 | 92.5 | 95.3 | 95.8 | 99.3 | 100.7 | 102.6 | 105.5 | 109.5 | 110.6 | 113.3 | 110.4 | 149.1 | | |
| 6300 | TRK3 | 90.0 | 91.7 | 93.3 | 95.3 | 98.6 | 100.2 | 102.6 | 104.5 | 108.6 | 109.7 | 111.4 | 108.2 | 148.0 | | |
| 8000 | TRK3 | 89.5 | 89.7 | 92.8 | 94.2 | 97.3 | 99.2 | 100.5 | 102.6 | 107.3 | 107.2 | 109.4 | 106.4 | 146.5 | | |
| 10000 | TRK3 | 87.1 | 86.5 | 91.7 | 92.1 | 96.2 | 98.0 | 100.4 | 101.4 | 105.9 | 105.7 | 108.6 | 104.8 | 145.8 | | |
| 12500 | TRK3 | 83.3 | 84.2 | 83.9 | 82.7 | 83.5 | 83.9 | 87.3 | 88.4 | 103.9 | 102.9 | 105.2 | 100.4 | 141.5 | | |
| 16000 | TRK3 | 81.8 | 83.2 | 83.3 | 84.9 | 87.4 | 89.3 | 92.0 | 92.4 | 98.9 | 97.4 | 101.2 | 97.0 | 141.5 | | |
| 20000 | TRK3 | 81.2 | 80.9 | 84.5 | 87.8 | 91.3 | 92.0 | 92.4 | 98.9 | 97.4 | 101.2 | 97.0 | 93.5 | 141.0 | | |
| 25000 | TRK3 | 77.7 | 76.3 | 80.4 | 78.5 | 83.3 | 85.8 | 86.5 | 87.5 | 96.4 | 96.3 | 98.7 | 95.7 | 138.8 | | |
| 31500 | TRK3 | 70.6 | 69.9 | 72.1 | 70.4 | 75.5 | 78.1 | 78.4 | 81.7 | 91.1 | 92.1 | 93.0 | 89.0 | 139.2 | | |
| 40000 | TRK3 | 63.4 | 66.1 | 65.1 | 69.1 | 71.1 | 73.4 | 76.4 | 76.4 | 87.4 | 89.4 | 86.7 | 82.8 | 146.2 | | |
| 50000 | TRK3 | 61.3 | 64.5 | 64.6 | 64.0 | 65.5 | 67.9 | 74.3 | 71.5 | 85.6 | 90.5 | 91.3 | 81.0 | 163.6 | | |
| 63000 | TRK3 | 105.7 | 106.8 | 108.1 | 103.6 | 110.9 | 112.2 | 113.7 | 117.0 | 121.5 | 126.6 | 128.5 | 126.0 | | | |
| 80000 | TRK3 | 118.4 | 119.5 | 120.6 | 121.4 | 123.5 | 124.8 | 126.4 | 130.1 | 134.1 | 138.3 | 140.4 | 137.6 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION: CONICAL
 TEST POINT: 4
 ACOUSTIC RANGE: 12.2m(40FT.)ARC
 SIZE: MODEL-109cm² (16.9 IN²)

OVERALL CALCULATED

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
 FULL SIZE SOUND PRESSURE LEVELS SCALED FROM INLET DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)

| RDG. NO. | NO EGA | RADIOAL 150. FT. | VEHICLE | CONFIG | LOC | DATE | RUN | TAPE | BAR | 80. | PROC. DATE - MONTH 9 DAY 17 HR. 21.8 | | | | PWL |
|--------------------|--------|------------------|---------|--------|-------|-------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-----|
| | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| 50 | 83.4 | 86.7 | 86.4 | 87.2 | 88.8 | 90.2 | 93.1 | 95.2 | 98.4 | 103.7 | 108.7 | 110.4 | 109.7 | 155.7 | |
| 63 | 84.5 | 88.5 | 87.8 | 88.3 | 91.4 | 93.0 | 94.4 | 96.6 | 102.0 | 107.6 | 111.3 | 113.0 | 112.3 | 158.5 | |
| 80 | 87.3 | 89.1 | 90.3 | 90.1 | 92.4 | 93.8 | 95.4 | 99.3 | 104.1 | 111.4 | 115.1 | 114.5 | 112.6 | 161.0 | |
| 100 | 87.6 | 89.4 | 90.9 | 91.2 | 94.0 | 94.9 | 96.5 | 100.4 | 105.6 | 113.7 | 115.4 | 115.8 | 112.9 | 162.1 | |
| 125 | 90.0 | 91.0 | 92.0 | 92.0 | 94.6 | 96.0 | 97.4 | 101.0 | 107.0 | 114.8 | 117.0 | 114.9 | 114.0 | 162.9 | |
| 160 | 92.0 | 92.5 | 93.0 | 93.5 | 96.4 | 98.8 | 98.6 | 102.5 | 109.3 | 116.6 | 118.0 | 116.0 | 114.5 | 164.2 | |
| 200 | 96.6 | 97.3 | 98.6 | 97.1 | 98.2 | 98.8 | 100.7 | 104.4 | 110.3 | 117.7 | 118.6 | 116.1 | 114.6 | 164.9 | |
| 250 | 95.6 | 97.7 | 98.9 | 100.0 | 101.3 | 102.2 | 102.3 | 105.5 | 110.9 | 117.8 | 119.0 | 116.9 | 114.4 | 165.4 | |
| 315 | 94.5 | 96.3 | 96.8 | 97.6 | 99.7 | 101.3 | 101.9 | 105.6 | 111.3 | 117.4 | 119.6 | 116.3 | 114.3 | 165.5 | |
| 400 | 97.8 | 98.3 | 99.1 | 98.4 | 99.7 | 101.3 | 102.5 | 106.9 | 111.9 | 117.7 | 119.6 | 115.8 | 113.6 | 165.4 | |
| 500 | 96.2 | 97.0 | 98.5 | 99.5 | 101.6 | 101.7 | 103.6 | 107.5 | 111.2 | 117.8 | 119.0 | 114.9 | 112.2 | 165.2 | |
| 630 | 96.9 | 97.5 | 98.5 | 99.0 | 100.6 | 102.0 | 103.6 | 107.8 | 111.5 | 115.3 | 118.3 | 114.7 | 111.0 | 164.2 | |
| 800 | 96.0 | 96.8 | 97.6 | 98.1 | 100.4 | 102.0 | 103.2 | 106.6 | 110.8 | 115.2 | 116.6 | 113.3 | 109.8 | 163.2 | |
| 1000 | 95.4 | 95.9 | 97.5 | 98.7 | 100.6 | 101.9 | 103.8 | 108.0 | 111.5 | 113.5 | 116.2 | 112.4 | 108.7 | 162.8 | |
| 1250 | 94.3 | 95.3 | 97.1 | 97.9 | 100.5 | 101.8 | 103.5 | 107.4 | 110.6 | 112.7 | 113.9 | 111.8 | 107.6 | 161.7 | |
| 1600 | 93.2 | 93.5 | 96.4 | 96.9 | 100.4 | 101.8 | 103.7 | 106.6 | 110.6 | 111.7 | 114.4 | 111.5 | 106.5 | 161.5 | |
| 2000 | 91.8 | 92.4 | 95.0 | 96.5 | 99.3 | 101.4 | 103.8 | 105.8 | 109.8 | 110.9 | 112.6 | 109.5 | 105.2 | 160.4 | |
| 2500 | 89.9 | 91.1 | 94.2 | 95.7 | 98.7 | 100.6 | 102.0 | 104.1 | 108.7 | 108.6 | 110.8 | 107.8 | 104.1 | 158.9 | |
| 3150 | 88.7 | 90.2 | 93.4 | 93.8 | 97.8 | 99.7 | 102.1 | 103.1 | 107.6 | 107.4 | 110.2 | 106.5 | 103.9 | 158.2 | |
| 4000 | 85.4 | 86.9 | 91.0 | 90.9 | 95.6 | 96.0 | 99.4 | 100.5 | 106.0 | 105.0 | 107.3 | 102.5 | 98.9 | 156.0 | |
| 5000 | 84.8 | 86.2 | 88.3 | 87.9 | 93.3 | 93.9 | 96.3 | 98.0 | 102.3 | 102.0 | 106.5 | 99.6 | 97.6 | 153.9 | |
| 6300 | 85.0 | 84.8 | 89.0 | 88.2 | 91.7 | 93.1 | 95.8 | 96.2 | 102.7 | 101.3 | 105.1 | 100.9 | 97.4 | 153.8 | |
| 8000 | 82.8 | 81.5 | 85.6 | 83.6 | 88.4 | 91.0 | 91.7 | 92.6 | 101.6 | 101.4 | 103.9 | 100.9 | 92.4 | 153.4 | |
| 10000 | 77.7 | 77.1 | 79.3 | 77.6 | 82.7 | 85.3 | 85.5 | 88.8 | 98.3 | 99.2 | 100.1 | 96.1 | 89.0 | 151.2 | |
| 12500 | 73.0 | 75.7 | 74.8 | 74.7 | 78.8 | 80.7 | 83.0 | 86.1 | 97.0 | 99.1 | 98.3 | 92.4 | 84.9 | 151.6 | |
| 16000 | 74.2 | 77.4 | 77.5 | 76.9 | 78.4 | 80.8 | 87.2 | 84.4 | 98.5 | 103.4 | 104.2 | 94.0 | 85.8 | 158.6 | |
| OVERALL CALCULATED | 106.7 | 107.7 | 109.1 | 109.6 | 111.9 | 113.2 | 114.8 | 118.1 | 122.6 | 127.6 | 129.5 | 126.9 | 124.6 | | |
| PNOB | 116.0 | 117.1 | 119.4 | 120.1 | 123.1 | 124.7 | 126.6 | 128.7 | 133.5 | 135.7 | 138.0 | 134.8 | 131.8 | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 4 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL - 33m²(513in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| FREQ. (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) | (2.97) | (3.14) |
| 50 | 55.2 | 60.1 | 60.9 | 62.2 | 64.4 | 65.9 | 68.7 | 70.4 | 72.9 | 77.1 | 80.5 | 80.0 | 75.8 |
| 63 | 56.3 | 61.9 | 62.2 | 64.0 | 67.0 | 68.7 | 70.7 | 71.7 | 76.5 | 80.9 | 83.1 | 82.5 | 78.3 |
| 80 | 59.0 | 62.3 | 64.7 | 65.2 | 68.0 | 69.5 | 71.0 | 74.4 | 78.4 | 84.6 | 86.8 | 83.9 | 78.4 |
| 100 | 59.2 | 62.6 | 65.2 | 66.2 | 69.5 | 70.5 | 72.0 | 75.5 | 79.9 | 86.9 | 87.0 | 85.1 | 78.5 |
| NFA (0. RAD/SEC) | 61.4 | 64.1 | 66.2 | 67.0 | 70.0 | 71.5 | 72.7 | 76.0 | 81.2 | 87.9 | 88.5 | 84.0 | 79.4 |
| NFK (1. RPM) | 63.2 | 65.4 | 67.1 | 68.4 | 71.7 | 74.2 | 73.9 | 77.4 | 83.3 | 89.5 | 89.3 | 84.8 | 79.2 |
| NFD (0. RAD/SEC) | 66.4 | 70.2 | 72.7 | 74.5 | 76.3 | 77.3 | 77.3 | 80.0 | 84.7 | 90.4 | 89.7 | 84.6 | 79.2 |
| NFE (7500. RPM) | 65.0 | 68.5 | 70.3 | 71.9 | 74.4 | 76.2 | 76.7 | 79.9 | 84.8 | 89.6 | 90.0 | 84.0 | 77.8 |
| NFF (785. RAD/SEC) | 67.8 | 70.2 | 72.3 | 72.4 | 74.2 | 76.0 | 76.9 | 80.9 | 85.0 | 89.6 | 89.6 | 83.0 | 76.2 |
| AIRFLOW RATIO | 65.7 | 68.4 | 71.2 | 73.1 | 75.7 | 76.0 | 77.7 | 81.1 | 84.0 | 89.2 | 88.5 | 81.5 | 73.8 |
| W/F/MH 5.51 | 65.7 | 68.4 | 71.2 | 73.1 | 75.7 | 76.0 | 77.7 | 81.1 | 84.0 | 89.2 | 88.5 | 81.5 | 73.8 |
| VEHICLE CELL41 | 65.9 | 66.9 | 69.2 | 70.7 | 73.5 | 75.3 | 76.2 | 79.2 | 82.4 | 85.3 | 84.5 | 77.7 | 68.4 |
| CONFIG NC79 | 62.2 | 65.1 | 68.3 | 70.6 | 73.0 | 75.3 | 76.2 | 79.2 | 82.4 | 85.3 | 84.5 | 77.7 | 68.4 |
| LOC C41 ANECH CH | 59.7 | 63.4 | 67.0 | 68.8 | 72.0 | 73.6 | 75.0 | 78.3 | 80.5 | 80.8 | 79.4 | 73.1 | 61.5 |
| DATE 09-01-76 | 56.7 | 60.0 | 64.8 | 66.5 | 70.7 | 72.3 | 74.0 | 76.2 | 79.0 | 78.2 | 77.9 | 70.3 | 56.7 |
| RUN CONFLOWFLOW | 53.0 | 57.0 | 61.7 | 64.6 | 68.7 | 70.5 | 72.7 | 73.9 | 76.5 | 75.5 | 73.8 | 65.2 | 51.0 |
| TAPE X00040 | 47.8 | 52.8 | 58.4 | 61.5 | 65.4 | 67.5 | 68.7 | 69.9 | 72.9 | 70.4 | 68.6 | 59.3 | 43.4 |
| FAN TIP SPEED | 41.2 | 47.5 | 53.7 | 56.0 | 61.1 | 63.3 | 65.4 | 65.3 | 67.9 | 64.6 | 62.7 | 50.9 | 32.9 |
| FT/SEC | 29.8 | 37.4 | 45.4 | 47.7 | 53.7 | 54.5 | 57.5 | 57.3 | 60.4 | 55.6 | 51.7 | 36.5 | 12.5 |
| | 24.5 | 32.8 | 39.3 | 41.5 | 48.5 | 51.5 | 51.7 | 53.3 | 53.3 | 48.6 | 46.2 | 27.4 | 2.2 |
| | 11.0 | 20.0 | 29.9 | 32.6 | 38.0 | 42.1 | 42.2 | 40.7 | 43.7 | 36.5 | 31.0 | 10.9 | |
| | 11.0 | 13.9 | 21.3 | 24.7 | 24.6 | 22.9 | 27.1 | 19.0 | 8.7 | | | | |
| OVERALL CALCULATED | 75.8 | 78.8 | 81.2 | 82.5 | 84.9 | 86.4 | 87.5 | 90.7 | 94.5 | 99.3 | 99.3 | 94.5 | 88.6 |
| PNOB | 80.9 | 84.1 | 87.1 | 88.5 | 91.8 | 93.5 | 95.1 | 97.4 | 100.8 | 104.1 | 103.9 | 97.7 | 90.2 |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 4 ACoustic RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)
 ANGLES FROM INLET IN DEGREES (AMD RADIAN)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200.

PROC. DATE - MONTH 9 DAY 17 HR. 21.7
 NUM. DAY - JEMOTS

FREQ. (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)(3.00)(3.20)(3.40)(3.60)(3.80)(4.00)(4.20)(4.40)(4.60)(4.80)(5.00)(5.20)(5.40)(5.60)(5.80)(6.00)(6.30)(6.60)(6.90)(7.20)(7.50)(7.80)(8.10)(8.40)(8.70)(9.00)(9.30)(9.60)(9.90)(10.20)(10.50)(10.80)(11.10)(11.40)(11.70)(12.00)(12.30)(12.60)(12.90)(13.20)(13.50)(13.80)(14.10)(14.40)(14.70)(15.00)(15.30)(15.60)(15.90)(16.20)(16.50)(16.80)(17.10)(17.40)(17.70)(18.00)(18.30)(18.60)(18.90)(19.20)(19.50)(19.80)(20.10)(20.40)(20.70)(21.00)(21.30)(21.60)(21.90)(22.20)(22.50)(22.80)(23.10)(23.40)(23.70)(24.00)(24.30)(24.60)(24.90)(25.20)(25.50)(25.80)(26.10)(26.40)(26.70)(27.00)(27.30)(27.60)(27.90)(28.20)(28.50)(28.80)(29.10)(29.40)(29.70)(30.00)(30.30)(30.60)(30.90)(31.20)(31.50)(31.80)(32.10)(32.40)(32.70)(33.00)(33.30)(33.60)(33.90)(34.20)(34.50)(34.80)(35.10)(35.40)(35.70)(36.00)(36.30)(36.60)(36.90)(37.20)(37.50)(37.80)(38.10)(38.40)(38.70)(39.00)(39.30)(39.60)(39.90)(40.20)(40.50)(40.80)(41.10)(41.40)(41.70)(42.00)(42.30)(42.60)(42.90)(43.20)(43.50)(43.80)(44.10)(44.40)(44.70)(45.00)(45.30)(45.60)(45.90)(46.20)(46.50)(46.80)(47.10)(47.40)(47.70)(48.00)(48.30)(48.60)(48.90)(49.20)(49.50)(49.80)(50.10)(50.40)(50.70)(51.00)(51.30)(51.60)(51.90)(52.20)(52.50)(52.80)(53.10)(53.40)(53.70)(54.00)(54.30)(54.60)(54.90)(55.20)(55.50)(55.80)(56.10)(56.40)(56.70)(57.00)(57.30)(57.60)(57.90)(58.20)(58.50)(58.80)(59.10)(59.40)(59.70)(60.00)(60.30)(60.60)(60.90)(61.20)(61.50)(61.80)(62.10)(62.40)(62.70)(63.00)(63.30)(63.60)(63.90)(64.20)(64.50)(64.80)(65.10)(65.40)(65.70)(66.00)(66.30)(66.60)(66.90)(67.20)(67.50)(67.80)(68.10)(68.40)(68.70)(69.00)(69.30)(69.60)(69.90)(70.20)(70.50)(70.80)(71.10)(71.40)(71.70)(72.00)(72.30)(72.60)(72.90)(73.20)(73.50)(73.80)(74.10)(74.40)(74.70)(75.00)(75.30)(75.60)(75.90)(76.20)(76.50)(76.80)(77.10)(77.40)(77.70)(78.00)(78.30)(78.60)(78.90)(79.20)(79.50)(79.80)(80.10)(80.40)(80.70)(81.00)(81.30)(81.60)(81.90)(82.20)(82.50)(82.80)(83.10)(83.40)(83.70)(84.00)(84.30)(84.60)(84.90)(85.20)(85.50)(85.80)(86.10)(86.40)(86.70)(87.00)(87.30)(87.60)(87.90)(88.20)(88.50)(88.80)(89.10)(89.40)(89.70)(90.00)(90.30)(90.60)(90.90)(91.20)(91.50)(91.80)(92.10)(92.40)(92.70)(93.00)(93.30)(93.60)(93.90)(94.20)(94.50)(94.80)(95.10)(95.40)(95.70)(96.00)(96.30)(96.60)(96.90)(97.20)(97.50)(97.80)(98.10)(98.40)(98.70)(99.00)(99.30)(99.60)(99.90)(100.20)(100.50)(100.80)(101.10)(101.40)(101.70)(102.00)(102.30)(102.60)(102.90)(103.20)(103.50)(103.80)(104.10)(104.40)(104.70)(105.00)(105.30)(105.60)(105.90)(106.20)(106.50)(106.80)(107.10)(107.40)(107.70)(108.00)(108.30)(108.60)(108.90)(109.20)(109.50)(109.80)(110.10)(110.40)(110.70)(111.00)(111.30)(111.60)(111.90)(112.20)(112.50)(112.80)(113.10)(113.40)(113.70)(114.00)(114.30)(114.60)(114.90)(115.20)(115.50)(115.80)(116.10)(116.40)(116.70)(117.00)(117.30)(117.60)(117.90)(118.20)(118.50)(118.80)(119.10)(119.40)(119.70)(120.00)(120.30)(120.60)(120.90)(121.20)(121.50)(121.80)(122.10)(122.40)(122.70)(123.00)(123.30)(123.60)(123.90)(124.20)(124.50)(124.80)(125.10)(125.40)(125.70)(126.00)(126.30)(126.60)(126.90)(127.20)(127.50)(127.80)(128.10)(128.40)(128.70)(129.00)(129.30)(129.60)(129.90)(130.20)(130.50)(130.80)(131.10)(131.40)(131.70)(132.00)(132.30)(132.60)(132.90)(133.20)(133.50)(133.80)(134.10)(134.40)(134.70)(135.00)(135.30)(135.60)(135.90)(136.20)(136.50)(136.80)(137.10)(137.40)(137.70)(138.00)(138.30)(138.60)(138.90)(139.20)(139.50)(139.80)(140.10)(140.40)(140.70)(141.00)(141.30)(141.60)(141.90)(142.20)(142.50)(142.80)(143.10)(143.40)(143.70)(144.00)(144.30)(144.60)(144.90)(145.20)(145.50)(145.80)(146.10)(146.40)(146.70)(147.00)(147.30)(147.60)(147.90)(148.20)(148.50)(148.80)(149.10)(149.40)(149.70)(150.00)

RDG. NO. 65
 RADIAL 41. FT.
 VEHICLE CELL 41
 CONFIG NCF9
 LOC C41 ANECH CH
 DATE G9-01-76
 RUN CONFLOWFLOW
 TAPE XG0030
 BAR 29.4 HG
 (99381. N/M2)
 TAMB 63. DEG F
 (290. DEG K)
 TWET 61. DEG F
 (289. DEG K)
 WACT13.12 GM/M3
 (.01312 KG/M3)
 FREQ. SHIFT
 JET
 DIAMETER RATIO
 DF/DH 1

| | | | | | | | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO EGA | 65 | 74.6 | 85.9 | 84.2 | 84.0 | 85.8 | 86.2 | 85.8 | 86.7 | 89.4 | 90.0 | 93.7 | 93.9 | 95.2 | 130.9 |
| RDG. NO. | 80 | 73.8 | 81.1 | 82.9 | 83.7 | 86.7 | 87.1 | 87.2 | 87.9 | 91.1 | 88.7 | 94.4 | 97.3 | 97.1 | 132.2 |
| RADIAL | 100 | 74.9 | 80.2 | 82.2 | 82.0 | 83.8 | 83.9 | 83.8 | 84.2 | 90.2 | 94.0 | 96.7 | 98.6 | 99.2 | 133.4 |
| VEHICLE | 200 | 78.8 | 80.3 | 81.5 | 82.3 | 83.9 | 85.3 | 85.2 | 86.6 | 92.5 | 96.4 | 98.3 | 103.8 | 103.5 | 137.1 |
| CONFIG | 315 | 79.9 | 83.9 | 83.4 | 84.7 | 87.3 | 88.4 | 89.6 | 91.1 | 97.8 | 104.1 | 105.8 | 105.8 | 105.1 | 139.7 |
| LOC | 400 | 82.4 | 85.0 | 85.5 | 85.8 | 87.6 | 89.2 | 91.1 | 95.5 | 100.2 | 106.0 | 109.7 | 109.9 | 108.0 | 142.1 |
| DATE | 500 | 83.3 | 85.0 | 86.5 | 86.8 | 89.4 | 90.5 | 91.4 | 96.3 | 102.5 | 108.4 | 110.6 | 111.2 | 108.8 | 144.5 |
| RUN | 630 | 85.1 | 86.4 | 87.4 | 87.7 | 90.3 | 91.4 | 93.0 | 97.9 | 104.2 | 111.2 | 113.4 | 111.9 | 110.1 | 146.8 |
| TAPE | 800 | 87.4 | 88.2 | 89.2 | 88.7 | 91.8 | 93.9 | 94.5 | 97.9 | 104.2 | 111.2 | 113.4 | 111.9 | 110.2 | 148.4 |
| BAR | 1000 | 92.5 | 92.5 | 93.5 | 92.8 | 93.9 | 94.7 | 96.1 | 99.8 | 105.7 | 112.1 | 113.3 | 111.9 | 110.5 | 148.6 |
| (99381. N/M2) | 1250 | 90.8 | 92.8 | 94.1 | 95.1 | 96.2 | 97.8 | 97.9 | 101.4 | 106.8 | 111.6 | 113.1 | 112.5 | 111.1 | 148.7 |
| TAMB | 1600 | 90.1 | 91.9 | 91.9 | 93.0 | 95.3 | 97.2 | 97.3 | 101.0 | 106.4 | 110.8 | 114.0 | 111.9 | 111.2 | 148.6 |
| (290. DEG K) | 2000 | 93.9 | 94.5 | 94.5 | 93.3 | 95.6 | 96.7 | 97.1 | 99.7 | 103.1 | 106.6 | 110.9 | 112.1 | 111.0 | 148.2 |
| TWET | 2500 | 91.8 | 92.3 | 93.8 | 94.6 | 96.7 | 97.1 | 97.5 | 98.7 | 102.6 | 106.6 | 108.1 | 111.3 | 110.3 | 147.9 |
| WACT | 3150 | 92.5 | 93.3 | 93.8 | 94.3 | 95.9 | 97.5 | 98.7 | 102.1 | 105.3 | 108.2 | 110.1 | 109.5 | 107.1 | 146.2 |
| (.01312 KG/M3) | 4000 | 90.8 | 91.8 | 93.1 | 93.1 | 95.4 | 97.3 | 98.7 | 102.1 | 105.3 | 108.2 | 110.1 | 109.5 | 107.1 | 145.8 |
| FREQ. SHIFT | 5000 | 90.4 | 91.2 | 92.7 | 93.5 | 95.6 | 97.4 | 99.3 | 103.0 | 106.5 | 106.8 | 109.5 | 108.2 | 105.9 | 145.0 |
| JET | 6300 | 89.9 | 91.5 | 92.3 | 92.8 | 95.6 | 97.5 | 98.9 | 102.3 | 105.8 | 105.4 | 107.8 | 107.2 | 105.5 | 145.0 |
| DIAMETER RATIO | 8000 | 89.0 | 89.3 | 91.1 | 91.9 | 95.2 | 97.1 | 98.7 | 101.4 | 105.6 | 104.7 | 107.7 | 106.6 | 104.3 | 144.7 |
| DF/DH 1 | 10000 | 87.9 | 88.7 | 89.8 | 91.3 | 94.9 | 96.0 | 98.6 | 99.8 | 104.1 | 103.0 | 105.6 | 104.7 | 102.2 | 143.4 |
| | 12500 | 85.4 | 86.0 | 89.6 | 90.1 | 92.7 | 95.0 | 96.9 | 98.6 | 102.6 | 100.8 | 103.5 | 102.8 | 100.0 | 142.1 |
| | 16000 | 83.9 | 84.8 | 88.0 | 88.2 | 91.7 | 93.3 | 96.0 | 96.5 | 101.2 | 98.5 | 101.9 | 102.1 | 99.3 | 141.5 |
| | 20000 | 80.4 | 80.8 | 84.9 | 84.3 | 89.6 | 89.4 | 92.8 | 92.9 | 98.9 | 94.9 | 98.5 | 98.0 | 94.6 | 139.2 |
| | 25000 | 77.9 | 78.3 | 81.2 | 80.5 | 85.7 | 88.3 | 88.0 | 89.4 | 94.2 | 91.4 | 96.9 | 93.0 | 92.3 | 137.3 |
| | 31500 | 76.9 | 75.4 | 80.5 | 78.7 | 82.5 | 85.5 | 85.6 | 85.3 | 93.8 | 88.6 | 93.4 | 92.9 | 90.7 | 137.4 |
| | 40000 | 72.0 | 70.2 | 74.8 | 72.6 | 76.4 | 79.4 | 79.9 | 80.6 | 88.8 | 84.4 | 90.1 | 88.8 | 84.7 | 136.1 |
| | 50000 | 63.7 | 63.0 | 65.7 | 63.3 | 67.9 | 70.5 | 70.7 | 72.7 | 81.5 | 78.7 | 82.1 | 80.8 | 76.4 | 132.7 |
| | 63000 | 55.0 | 56.9 | 57.0 | 55.4 | 59.2 | 61.1 | 61.7 | 64.5 | 74.5 | 74.8 | 76.7 | 75.8 | 66.4 | 133.1 |
| | 80000 | 49.8 | 52.1 | 54.1 | 53.3 | 55.2 | 55.8 | 56.8 | 56.8 | 70.6 | 67.0 | 75.3 | 72.6 | 62.9 | 136.9 |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | | 102.3 | 103.3 | 104.4 | 104.7 | 107.0 | 108.5 | 110.0 | 113.1 | 117.6 | 121.2 | 123.5 | 122.7 | 121.0 | 159.2 |
| PNUB | | 115.2 | 116.3 | 117.1 | 117.5 | 119.5 | 121.0 | 122.4 | 125.9 | 130.1 | 133.3 | 135.4 | 134.6 | 132.6 | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 5 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

| NO EGA
SIDELINE 2400. FT.
(731.52 M) | FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F. 70 PERCENT REL. HUM. DAY) | | | | | | | | | | | | | |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
| 50 | 40.70 | 40.87 | 41.05 | 41.22 | 41.40 | 41.57 | 41.75 | 41.92 | 42.09 | 42.27 | 42.44 | 42.62 | 42.79 | 42.97 |
| 63 | 55.0 | 58.6 | 60.2 | 61.4 | 63.4 | 65.2 | 67.9 | 69.7 | 72.7 | 73.4 | 79.3 | 78.7 | 74.5 | |
| 80 | 57.5 | 61.6 | 63.2 | 63.9 | 66.5 | 68.2 | 70.0 | 73.9 | 77.9 | 82.6 | 84.8 | 82.6 | 77.1 | |
| 100 | 56.2 | 61.6 | 64.2 | 65.2 | 68.2 | 69.5 | 71.2 | 74.7 | 80.2 | 85.9 | 85.5 | 83.8 | 77.8 | |
| 125 | 59.9 | 62.8 | 64.9 | 66.0 | 69.0 | 70.3 | 71.7 | 75.5 | 80.4 | 85.6 | 86.7 | 83.8 | 78.9 | |
| 160 | 62.0 | 64.4 | 66.6 | 66.9 | 70.4 | 72.7 | 73.2 | 76.1 | 81.6 | 87.5 | 88.0 | 84.0 | 78.5 | |
| 200 | 66.9 | 68.6 | 70.8 | 70.8 | 72.3 | 73.4 | 74.6 | 77.8 | 83.0 | 88.2 | 87.7 | 81.9 | 78.5 | |
| 250 | 64.9 | 69.7 | 71.2 | 73.0 | 74.5 | 76.3 | 79.2 | 83.9 | 87.5 | 87.3 | 84.1 | 78.6 | | |
| 315 | 64.0 | 67.5 | 68.8 | 70.6 | 73.4 | 75.4 | 75.4 | 78.6 | 83.3 | 86.4 | 87.8 | 83.0 | 78.0 | |
| 400 | 67.5 | 69.7 | 71.0 | 70.6 | 73.4 | 74.7 | 76.2 | 78.9 | 83.3 | 86.6 | 85.9 | 82.0 | 76.2 | |
| 500 | 64.7 | 67.1 | 70.0 | 71.6 | 74.2 | 74.7 | 77.2 | 80.1 | 82.7 | 85.7 | 85.0 | 81.0 | 73.3 | |
| 630 | 64.7 | 67.6 | 69.5 | 70.9 | 73.0 | 74.8 | 75.8 | 79.2 | 82.2 | 82.4 | 83.6 | 79.3 | 71.5 | |
| 800 | 62.1 | 65.4 | 68.2 | 69.2 | 72.0 | 74.1 | 75.3 | 78.2 | 80.4 | 81.8 | 81.5 | 77.5 | 69.1 | |
| 1000 | 60.7 | 63.9 | 67.0 | 68.6 | 71.5 | 73.5 | 75.2 | 78.3 | 80.8 | 79.5 | 79.8 | 74.7 | 65.9 | |
| 1250 | 59.0 | 63.2 | 65.7 | 67.3 | 70.8 | 72.8 | 74.0 | 76.8 | 79.2 | 77.1 | 76.9 | 72.1 | 63.0 | |
| 1600 | 56.2 | 59.5 | 63.3 | 65.2 | 69.2 | 71.3 | 72.7 | 74.7 | 77.8 | 74.9 | 74.9 | 69.3 | 58.2 | |
| 2000 | 53.0 | 57.2 | 61.5 | 63.4 | 67.7 | 69.0 | 71.4 | 71.9 | 74.7 | 71.5 | 70.8 | 64.5 | 52.0 | |
| 2500 | 47.5 | 52.1 | 58.2 | 60.2 | 63.7 | 66.3 | 67.9 | 68.1 | 71.2 | 66.9 | 65.6 | 58.5 | 43.6 | |
| 3150 | 41.2 | 47.0 | 53.2 | 55.3 | 59.9 | 61.8 | 64.1 | 63.6 | 66.4 | 60.6 | 59.2 | 51.4 | 33.2 | |
| 4000 | 30.3 | 36.9 | 44.9 | 46.7 | 53.2 | 53.5 | 56.5 | 58.9 | 51.1 | 48.5 | 47.5 | 37.5 | 13.7 | |
| 5000 | 24.5 | 31.8 | 39.0 | 41.0 | 47.7 | 50.8 | 50.0 | 49.9 | 52.1 | 44.9 | 43.5 | 27.7 | 3.7 | |
| 6300 | 11.2 | 19.0 | 29.9 | 31.6 | 37.3 | 40.8 | 40.4 | 38.2 | 43.2 | 32.2 | 27.8 | 11.4 | | |
| 3000 | | | 11.0 | 13.6 | 20.1 | 23.9 | 23.6 | 21.6 | 25.1 | 12.8 | 5.7 | | | |
| 10000 | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | |
| 16000 | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 74.8 | 77.8 | 79.9 | 81.1 | 83.7 | 85.3 | 86.5 | 89.4 | 93.3 | 96.6 | 97.0 | 93.6 | 88.0 | |
| PND8 | 80.1 | 83.3 | 85.9 | 87.1 | 90.6 | 92.3 | 93.9 | 95.9 | 99.4 | 101.0 | 101.2 | 96.8 | 90.1 | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 5 ACOUSTIC RANGE 731.5m(2400ft.) SIDELINE SIZE FULL-33m²(513in²)

| RDG. NO. | NO EGA | 4C. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | PWL |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 100 | 76.9 | 86.7 | 84.2 | 84.5 | 86.3 | 86.7 | 86.5 | 86.7 | 89.9 | 89.0 | 85.4 | 95.1 | 96.4 | 131.4 | |
| 125 | 75.8 | 81.9 | 82.6 | 83.9 | 86.5 | 87.6 | 86.7 | 88.4 | 88.4 | 86.4 | 83.9 | 97.3 | 98.6 | 132.2 | |
| 160 | 76.4 | 80.7 | 83.0 | 83.0 | 84.2 | 85.0 | 85.0 | 85.7 | 88.4 | 92.5 | 95.4 | 99.1 | 101.2 | 133.7 | |
| 200 | 79.3 | 81.3 | 83.0 | 83.3 | 85.2 | 86.3 | 86.4 | 89.1 | 91.3 | 94.6 | 98.8 | 104.5 | 105.0 | 137.6 | |
| 250 | 79.3 | 83.1 | 84.3 | 83.6 | 86.0 | 87.1 | 90.0 | 91.6 | 92.6 | 97.4 | 103.9 | 106.8 | 106.8 | 140.2 | |
| 315 | 81.7 | 86.4 | 84.7 | 86.5 | 88.8 | 90.2 | 91.1 | 93.0 | 95.9 | 100.5 | 106.2 | 109.9 | 110.2 | 143.1 | |
| 400 | 82.7 | 86.0 | 87.5 | 86.2 | 88.8 | 90.5 | 91.6 | 94.2 | 97.0 | 103.5 | 110.0 | 111.9 | 111.0 | 145.3 | |
| 500 | 84.3 | 86.8 | 87.5 | 87.8 | 90.4 | 91.3 | 92.7 | 94.8 | 97.3 | 105.1 | 110.8 | 113.7 | 112.0 | 146.7 | |
| 630 | 86.9 | 88.6 | 89.1 | 88.9 | 91.0 | 92.1 | 93.3 | 96.2 | 98.6 | 106.5 | 113.2 | 113.8 | 113.1 | 147.8 | |
| 800 | 90.1 | 90.9 | 90.4 | 92.8 | 94.4 | 94.3 | 97.4 | 100.4 | 108.5 | 114.9 | 114.9 | 113.9 | 113.9 | 149.2 | |
| 1000 | 94.7 | 95.5 | 95.5 | 94.5 | 95.1 | 95.5 | 96.6 | 98.8 | 102.0 | 108.6 | 114.5 | 113.9 | 113.0 | 148.8 | |
| 1250 | 113.8 | 114.3 | 109.8 | 102.6 | 102.4 | 100.1 | 103.7 | 102.4 | 103.6 | 108.6 | 114.6 | 115.0 | 115.3 | 152.4 | |
| 1600 | 107.6 | 108.4 | 103.9 | 99.0 | 97.8 | 97.7 | 97.8 | 99.7 | 103.2 | 107.8 | 113.0 | 112.6 | 113.2 | 149.1 | |
| 2000 | 111.9 | 110.2 | 108.0 | 105.8 | 103.1 | 100.0 | 97.8 | 99.8 | 103.7 | 107.8 | 111.8 | 111.9 | 111.5 | 149.9 | |
| 2500 | 110.6 | 109.6 | 109.1 | 110.9 | 112.5 | 110.6 | 103.7 | 102.4 | 105.6 | 107.9 | 109.9 | 110.5 | 109.6 | 151.6 | |
| 3150 | 108.2 | 108.3 | 108.1 | 108.6 | 109.7 | 109.3 | 105.2 | 103.6 | 104.3 | 105.6 | 109.1 | 109.3 | 108.8 | 150.2 | |
| 4000 | 106.8 | 107.3 | 106.8 | 105.9 | 106.9 | 107.6 | 106.7 | 105.1 | 104.6 | 108.2 | 107.1 | 107.8 | 106.3 | 149.0 | |
| 5000 | 105.5 | 106.2 | 106.2 | 106.2 | 106.2 | 106.4 | 106.6 | 107.0 | 107.0 | 107.0 | 106.3 | 105.4 | 104.2 | 148.8 | |
| 6300 | 104.2 | 105.0 | 105.8 | 104.3 | 105.6 | 105.5 | 105.4 | 106.3 | 108.3 | 105.7 | 104.6 | 104.5 | 102.5 | 148.0 | |
| 8000 | 103.0 | 103.1 | 104.1 | 104.4 | 106.0 | 104.8 | 105.0 | 104.6 | 108.9 | 105.5 | 104.2 | 103.6 | 101.3 | 148.0 | |
| 10000 | 101.6 | 102.0 | 103.6 | 102.8 | 104.6 | 104.5 | 104.6 | 103.8 | 106.8 | 104.0 | 102.4 | 101.2 | 98.2 | 147.0 | |
| 12500 | 99.4 | 99.8 | 101.1 | 101.9 | 103.2 | 103.3 | 102.9 | 101.5 | 104.9 | 103.8 | 100.0 | 99.8 | 95.5 | 145.7 | |
| 16000 | 97.6 | 98.1 | 100.3 | 99.7 | 101.7 | 102.1 | 102.2 | 100.3 | 104.0 | 99.0 | 98.6 | 97.4 | 94.8 | 145.2 | |
| 20000 | 95.6 | 94.1 | 100.3 | 99.7 | 101.7 | 102.1 | 102.2 | 100.3 | 104.0 | 99.0 | 98.6 | 97.4 | 94.8 | 143.2 | |
| 25000 | 92.2 | 91.9 | 94.0 | 92.1 | 96.0 | 97.4 | 95.5 | 94.7 | 97.3 | 91.9 | 92.2 | 87.3 | 86.3 | 141.5 | |
| 31500 | 90.7 | 89.7 | 93.9 | 91.1 | 93.6 | 95.0 | 94.2 | 91.9 | 96.9 | 88.7 | 89.2 | 87.5 | 85.0 | 142.0 | |
| 40000 | 86.6 | 84.8 | 88.6 | 85.7 | 88.8 | 89.5 | 85.0 | 87.4 | 93.4 | 85.0 | 83.7 | 84.2 | 78.5 | 140.7 | |
| 50000 | 78.8 | 78.1 | 80.3 | 77.9 | 81.2 | 82.3 | 80.6 | 80.6 | 86.4 | 78.8 | 76.0 | 76.2 | 74.6 | 137.5 | |
| 63000 | 71.4 | 72.1 | 73.4 | 71.4 | 73.9 | 74.3 | 72.9 | 73.9 | 79.9 | 72.2 | 67.4 | 68.0 | 66.3 | 136.8 | |
| 80000 | 65.2 | 67.5 | 68.1 | 66.0 | 67.5 | 71.1 | 68.0 | 66.5 | 77.3 | 66.8 | 66.3 | 61.3 | 57.8 | 142.1 | |
| OVERALL MEASURED | | | | | | | | | | | | | | | |
| OVERALL CALCULATED 119.1 119.0 117.4 116.5 117.6 116.9 115.4 115.0 117.2 116.8 123.2 123.8 123.2 | | | | | | | | | | | | | | | |
| PNDB 130.6 130.3 129.6 129.8 131.0 129.9 128.1 127.9 129.2 130.9 133.9 134.5 133.7 | | | | | | | | | | | | | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 6 ACOUSTIC RANGE 12.2m(40ft.) ARC MODEL-10%cm²(16.9in²) SIZE

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS) PROC. DATE - MONTH 9 DAY 17 HR. 23.0

| RDG. NO. | NO. EGA | FREQ. | FULL SIZE SOUND PRESSURE LEVELS | | | | | | SCALED FROM MODEL DATA | | | | | | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | | | O. C. (O. C.) (O. C.) (O. C.) | | | | | |
|--------------------|---------|-------|---------------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|---|------|------|------|------|--|-------------------------------|--|--|--|--|--|
| | | | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. | 170. | 180. | 190. | 200. | | | | | | | |
| 50 | 73.1 | 79.1 | 79.9 | 81.1 | 83.7 | 84.9 | 84.0 | 85.6 | 85.6 | 83.7 | 81.1 | 84.6 | 95.9 | 140.9 | | | | | | | | | | | | |
| 63 | 73.6 | 77.9 | 80.9 | 81.2 | 81.3 | 81.4 | 82.3 | 83.9 | 85.7 | 89.7 | 92.7 | 96.4 | 98.4 | 142.4 | | | | | | | | | | | | |
| 80 | 76.5 | 78.5 | 80.3 | 80.6 | 82.4 | 83.5 | 83.7 | 86.3 | 88.5 | 91.6 | 96.1 | 101.7 | 102.3 | 146.3 | | | | | | | | | | | | |
| 100 | 76.5 | 80.3 | 81.6 | 80.9 | 83.2 | 84.3 | 88.2 | 89.8 | 89.8 | 94.8 | 101.1 | 104.0 | 104.1 | 148.9 | | | | | | | | | | | | |
| 125 | 78.5 | 83.7 | 81.9 | 83.7 | 86.0 | 87.4 | 88.3 | 90.2 | 93.2 | 97.5 | 103.4 | 107.1 | 107.4 | 151.9 | | | | | | | | | | | | |
| 160 | 79.9 | 83.2 | 84.7 | 83.5 | 86.1 | 87.7 | 88.8 | 91.5 | 94.2 | 100.8 | 107.2 | 109.2 | 108.2 | 154.1 | | | | | | | | | | | | |
| 200 | 81.5 | 84.0 | 85.0 | 83.1 | 87.7 | 88.5 | 89.9 | 92.1 | 94.5 | 102.3 | 108.0 | 111.0 | 109.3 | 155.4 | | | | | | | | | | | | |
| 250 | 84.1 | 85.9 | 86.4 | 86.2 | 88.2 | 89.4 | 90.5 | 93.4 | 95.9 | 105.7 | 110.4 | 111.1 | 110.4 | 156.5 | | | | | | | | | | | | |
| 315 | 87.3 | 88.1 | 87.6 | 87.7 | 90.0 | 91.6 | 91.5 | 94.7 | 97.6 | 105.7 | 112.2 | 112.1 | 111.1 | 157.9 | | | | | | | | | | | | |
| 400 | 91.9 | 92.7 | 92.2 | 91.7 | 92.3 | 92.7 | 93.8 | 96.0 | 99.2 | 105.5 | 111.7 | 111.2 | 110.2 | 157.5 | | | | | | | | | | | | |
| 500 | 111.0 | 111.5 | 107.0 | 99.8 | 97.3 | 100.9 | 99.6 | 100.8 | 100.8 | 105.9 | 111.8 | 112.2 | 112.5 | 161.1 | | | | | | | | | | | | |
| 630 | 104.8 | 105.6 | 101.1 | 96.2 | 94.9 | 95.0 | 96.9 | 99.6 | 100.4 | 105.0 | 110.2 | 109.8 | 110.4 | 157.8 | | | | | | | | | | | | |
| 800 | 109.1 | 107.4 | 103.2 | 103.9 | 100.3 | 97.1 | 95.0 | 96.9 | 100.9 | 105.5 | 108.9 | 109.1 | 108.6 | 158.7 | | | | | | | | | | | | |
| 1000 | 108.0 | 106.7 | 106.3 | 108.0 | 109.6 | 107.7 | 100.9 | 99.5 | 100.6 | 105.1 | 107.0 | 107.7 | 106.7 | 160.3 | | | | | | | | | | | | |
| 1250 | 105.4 | 105.5 | 105.2 | 103.8 | 106.9 | 106.5 | 102.4 | 100.8 | 101.5 | 102.8 | 106.3 | 106.4 | 106.0 | 158.9 | | | | | | | | | | | | |
| 1600 | 103.9 | 104.5 | 104.0 | 103.1 | 104.1 | 104.7 | 103.9 | 102.3 | 101.8 | 103.4 | 104.3 | 105.0 | 103.5 | 157.7 | | | | | | | | | | | | |
| 2000 | 103.0 | 103.3 | 103.4 | 103.4 | 104.2 | 103.6 | 103.7 | 104.1 | 104.1 | 102.2 | 103.4 | 102.6 | 101.3 | 157.5 | | | | | | | | | | | | |
| 2500 | 101.4 | 102.2 | 103.0 | 101.5 | 102.8 | 102.7 | 102.6 | 103.5 | 105.5 | 102.8 | 101.8 | 101.7 | 99.7 | 157.0 | | | | | | | | | | | | |
| 3150 | 100.1 | 100.2 | 101.3 | 101.5 | 103.1 | 102.0 | 102.1 | 101.8 | 106.0 | 102.7 | 101.3 | 100.7 | 98.5 | 156.7 | | | | | | | | | | | | |
| 4000 | 98.8 | 99.2 | 100.7 | 100.0 | 101.8 | 101.7 | 101.8 | 101.0 | 104.3 | 101.1 | 99.6 | 98.4 | 95.4 | 155.8 | | | | | | | | | | | | |
| 5000 | 96.8 | 97.2 | 98.6 | 99.3 | 100.6 | 100.7 | 100.4 | 99.0 | 102.3 | 98.3 | 97.4 | 97.2 | 93.0 | 154.4 | | | | | | | | | | | | |
| 6300 | 95.3 | 95.8 | 97.9 | 97.4 | 99.4 | 99.8 | 99.9 | 97.9 | 101.7 | 96.7 | 96.3 | 95.1 | 92.5 | 153.9 | | | | | | | | | | | | |
| 8000 | 91.5 | 91.9 | 95.0 | 93.4 | 97.4 | 96.0 | 97.7 | 95.8 | 99.0 | 93.3 | 92.6 | 89.6 | 87.5 | 151.9 | | | | | | | | | | | | |
| 10000 | 90.3 | 89.9 | 92.1 | 90.1 | 94.1 | 95.4 | 93.6 | 92.8 | 95.3 | 90.0 | 90.3 | 85.3 | 84.4 | 150.2 | | | | | | | | | | | | |
| 12500 | 89.1 | 88.1 | 92.3 | 89.5 | 92.0 | 93.5 | 92.6 | 90.3 | 95.3 | 87.1 | 87.7 | 85.9 | 83.4 | 152.8 | | | | | | | | | | | | |
| 16000 | 85.3 | 83.5 | 87.3 | 84.4 | 87.5 | 88.2 | 87.7 | 86.1 | 92.1 | 83.7 | 82.4 | 82.9 | 77.2 | 147.4 | | | | | | | | | | | | |
| 20000 | 77.8 | 77.2 | 79.4 | 77.0 | 80.3 | 81.4 | 79.4 | 79.7 | 85.4 | 77.9 | 75.0 | 75.3 | 73.6 | 146.3 | | | | | | | | | | | | |
| 25000 | 71.2 | 71.9 | 72.2 | 71.2 | 73.7 | 74.1 | 72.7 | 73.7 | 79.7 | 72.0 | 67.2 | 67.8 | 66.1 | 145.5 | | | | | | | | | | | | |
| 31500 | 66.2 | 68.5 | 69.0 | 67.0 | 68.4 | 72.1 | 69.0 | 67.4 | 78.3 | 67.7 | 67.3 | 62.2 | 58.3 | 150.6 | | | | | | | | | | | | |
| OVERALL CALCULATED | | | 116.3 | 116.2 | 114.6 | 113.8 | 114.9 | 114.1 | 112.7 | 112.3 | 114.5 | 116.0 | 120.4 | 120.5 | 170.3 | | | | | | | | | | | |
| PNDB | | | 125.0 | 125.5 | 125.7 | 125.0 | 126.4 | 125.8 | 125.5 | 125.5 | 128.3 | 127.4 | 128.8 | 129.0 | 128.3 | | | | | | | | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 6 ACOUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m²(513in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY - JENOTS)
 ANGLES FROM INLET IN DEGREES (AND RADIAN)
 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 0. C. 0. 0. 0. PHL
 FREQ. (C.70)(C.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)(G.)

| RDG. NO. | NO EGA | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 0. | 0. | 0. | PHL |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-----|
| 100 | 76.1 | 85.9 | 84.2 | 83.7 | 85.8 | 85.9 | 85.8 | 85.7 | 88.9 | 86.2 | 92.4 | 94.1 | 95.7 | 130.6 | | | |
| 125 | 74.6 | 81.1 | 81.4 | 82.7 | 85.2 | 86.1 | 85.0 | 87.2 | 87.4 | 85.7 | 92.4 | 95.8 | 96.9 | 130.7 | | | |
| 160 | 75.1 | 79.9 | 82.4 | 82.0 | 83.3 | 83.7 | 83.5 | 85.2 | 87.7 | 92.2 | 93.9 | 98.1 | 99.7 | 132.5 | | | |
| 200 | 78.0 | 80.5 | 81.5 | 82.3 | 83.9 | 85.0 | 84.9 | 87.6 | 90.5 | 93.4 | 97.6 | 103.5 | 104.0 | 136.5 | | | |
| 250 | 78.1 | 81.3 | 82.8 | 82.9 | 84.7 | 86.6 | 89.0 | 90.6 | 92.1 | 96.2 | 102.1 | 105.3 | 105.6 | 138.8 | | | |
| 315 | 80.4 | 84.9 | 83.7 | 85.7 | 88.1 | 88.7 | 90.1 | 92.5 | 94.7 | 96.8 | 105.0 | 108.4 | 108.7 | 141.7 | | | |
| 400 | 81.9 | 85.5 | 86.7 | 86.2 | 87.8 | 89.7 | 90.6 | 93.2 | 96.0 | 102.0 | 108.5 | 110.2 | 110.0 | 143.5 | | | |
| 500 | 83.3 | 85.8 | 86.8 | 86.8 | 89.4 | 90.5 | 91.7 | 93.8 | 96.8 | 104.1 | 109.6 | 112.7 | 111.5 | 145.7 | | | |
| 630 | 86.1 | 87.6 | 88.1 | 88.4 | 90.8 | 91.9 | 93.0 | 95.2 | 98.6 | 105.7 | 112.2 | 113.6 | 112.1 | 147.1 | | | |
| 800 | 88.6 | 89.7 | 89.9 | 89.7 | 92.0 | 93.7 | 93.8 | 96.7 | 100.7 | 107.5 | 113.9 | 113.6 | 112.9 | 148.2 | | | |
| 1000 | 92.9 | 92.7 | 94.2 | 93.8 | 94.6 | 94.7 | 95.9 | 98.5 | 101.7 | 107.8 | 113.5 | 112.7 | 112.2 | 147.8 | | | |
| 1250 | 104.0 | 104.6 | 101.1 | 96.6 | 97.4 | 97.6 | 98.2 | 100.4 | 103.1 | 106.9 | 112.1 | 112.5 | 112.6 | 148.0 | | | |
| 1600 | 109.6 | 111.7 | 107.2 | 100.7 | 98.6 | 97.9 | 98.8 | 101.2 | 104.4 | 106.8 | 111.7 | 111.6 | 113.4 | 149.6 | | | |
| 2000 | 106.4 | 106.0 | 102.7 | 100.3 | 98.8 | 97.0 | 98.5 | 103.5 | 106.1 | 109.8 | 109.4 | 109.5 | 109.5 | 146.8 | | | |
| 2500 | 108.8 | 106.3 | 105.8 | 105.9 | 105.7 | 104.6 | 100.2 | 100.6 | 102.8 | 106.2 | 108.4 | 108.0 | 107.8 | 148.0 | | | |
| 3150 | 106.5 | 106.8 | 106.8 | 107.3 | 108.9 | 109.8 | 103.2 | 101.3 | 103.1 | 104.6 | 106.8 | 107.0 | 106.8 | 149.0 | | | |
| 4000 | 104.3 | 105.3 | 105.1 | 104.4 | 105.4 | 103.2 | 101.9 | 102.6 | 104.2 | 104.6 | 105.0 | 104.1 | 104.1 | 146.7 | | | |
| 5000 | 102.9 | 104.2 | 104.0 | 103.7 | 104.6 | 104.2 | 103.8 | 104.0 | 104.5 | 102.6 | 103.5 | 102.9 | 101.7 | 146.3 | | | |
| 6300 | 101.4 | 102.8 | 103.6 | 102.3 | 104.1 | 103.3 | 103.1 | 103.8 | 105.3 | 102.9 | 101.6 | 101.7 | 100.3 | 145.8 | | | |
| 8000 | 100.5 | 100.8 | 102.1 | 101.6 | 103.5 | 102.3 | 102.5 | 102.9 | 106.1 | 101.5 | 100.9 | 100.6 | 98.8 | 145.3 | | | |
| 10000 | 98.6 | 99.5 | 100.6 | 100.8 | 102.4 | 102.0 | 101.9 | 101.6 | 104.6 | 100.7 | 98.9 | 97.0 | 95.5 | 144.5 | | | |
| 12500 | 96.1 | 96.5 | 98.9 | 98.9 | 100.9 | 100.5 | 100.2 | 99.5 | 102.1 | 97.8 | 96.7 | 95.8 | 93.5 | 143.0 | | | |
| 16000 | 94.6 | 94.3 | 97.8 | 97.7 | 99.7 | 99.3 | 99.7 | 99.5 | 100.5 | 96.9 | 95.1 | 93.7 | 91.1 | 142.5 | | | |
| 20000 | 90.4 | 91.6 | 94.7 | 93.3 | 96.8 | 94.9 | 97.1 | 95.2 | 98.3 | 92.5 | 90.8 | 88.3 | 86.4 | 140.4 | | | |
| 25000 | 88.5 | 88.9 | 91.3 | 89.1 | 93.3 | 93.9 | 92.8 | 91.7 | 94.5 | 87.9 | 88.2 | 83.5 | 83.8 | 138.4 | | | |
| 31500 | 87.2 | 86.4 | 90.9 | 88.1 | 90.8 | 92.3 | 91.0 | 89.4 | 93.6 | 84.9 | 85.2 | 83.0 | 81.0 | 139.0 | | | |
| 40000 | 81.9 | 81.3 | 85.4 | 81.7 | 85.8 | 86.5 | 85.3 | 83.9 | 89.4 | 81.0 | 80.0 | 78.4 | 74.5 | 137.0 | | | |
| 50000 | 74.5 | 74.1 | 77.3 | 73.1 | 78.0 | 78.8 | 77.3 | 76.1 | 81.9 | 73.6 | 70.2 | 70.4 | 65.1 | 133.5 | | | |
| 63000 | 66.1 | 68.6 | 69.1 | 66.6 | 70.4 | 71.3 | 69.4 | 69.2 | 75.2 | 67.2 | 63.4 | 61.0 | 56.8 | 132.6 | | | |
| 80000 | 60.7 | 63.2 | 66.3 | 62.5 | 64.5 | 66.6 | 64.8 | 62.2 | 70.6 | 56.8 | 63.3 | 58.3 | 51.1 | 137.1 | | | |
| OVERALL MEASURED | | | | | | | | | | | | | | | | | |
| OVERALL CALCULATED | 115.7 | 116.2 | 114.8 | 113.8 | 114.8 | 114.6 | 112.8 | 113.1 | 115.5 | 117.2 | 121.7 | 122.3 | 122.0 | 159.5 | | | |
| PHOB | 128.2 | 128.2 | 127.7 | 127.4 | 128.6 | 128.9 | 125.3 | 125.7 | 127.4 | 129.1 | 132.0 | 132.3 | 132.6 | | | | |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 7 ACOUSTIC RANGE 12.2m(40ft.) ARC SIZE MODEL-109cm²(16.9in²)

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM
FULL SIZE SOUND PRESSURE LEVELS

PROC. DATE - MONTH 9 DAY 17 MR. 23.0
DEG. F, 70 PERCENT REL. HUM. DAY - JEMOTS)

| NO EGA | RDG. NO. | RABIAL (46. M) | VEHICLE CELL41 | CONFIG NCT9 | LOC C41 ANECH CH | DATE C9-01-76 | RUN CON7INSTRC7F | TAFE XC007C | BAR 29.4 HG | TAPB (99381. N/M2) | TWET (290. DEG K) | HACT12.67 GM/M3 | FREQ. SHIFT | JET 4 | DIAMETER RATIO | OF/DH 2.73 | ANGLES FROM INLET IN DEGREES (AND RADIAN) | | | | PWL |
|--------|--------------------|----------------|----------------|-------------|------------------|---------------|------------------|-------------|-------------|--------------------|-------------------|-----------------|-------------|-------|----------------|------------|---|-------|-----|-----|-----|
| | | | | | | | | | | | | | | | | | 40. | 50. | 60. | 70. | |
| | 50 | 71.8 | 78.4 | 77.2 | 79.2 | 80.5 | 82.5 | 83.4 | 82.2 | 84.4 | 84.6 | 82.9 | 89.6 | 93.1 | 94.1 | | | 139.4 | | | |
| | 63 | 72.4 | 77.2 | 78.8 | 79.6 | 81.2 | 82.3 | 82.2 | 84.8 | 87.8 | 89.5 | 91.2 | 95.4 | 96.9 | | | | 141.2 | | | |
| | 80 | 75.3 | 79.1 | 80.1 | 80.1 | 82.0 | 83.8 | 86.2 | 87.9 | 89.3 | 93.4 | 99.3 | 102.5 | 102.8 | | | | 145.2 | | | |
| | 100 | 77.6 | 82.2 | 80.9 | 83.0 | 85.9 | 87.3 | 89.7 | 91.9 | 96.0 | 102.2 | 105.5 | 105.9 | | | | | 147.5 | | | |
| | 125 | 79.2 | 82.7 | 83.9 | 83.5 | 85.1 | 86.9 | 87.8 | 90.5 | 93.2 | 99.3 | 105.7 | 107.2 | | | | | 150.4 | | | |
| | 160 | 80.5 | 83.0 | 84.0 | 84.1 | 86.7 | 87.8 | 88.9 | 91.1 | 94.0 | 101.3 | 106.8 | 107.2 | | | | | 152.6 | | | |
| | 200 | 83.3 | 84.9 | 85.4 | 85.7 | 88.0 | 89.1 | 90.2 | 92.4 | 95.9 | 102.9 | 109.4 | 110.8 | | | | | 154.4 | | | |
| | 315 | 85.8 | 86.9 | 87.1 | 86.9 | 89.3 | 90.9 | 91.0 | 93.9 | 97.9 | 104.7 | 111.2 | 110.1 | | | | | 156.9 | | | |
| | 400 | 50.2 | 89.9 | 91.4 | 91.0 | 91.8 | 91.9 | 93.1 | 95.7 | 98.9 | 105.0 | 110.7 | 109.9 | | | | | 158.6 | | | |
| | 500 | 101.2 | 101.8 | 98.3 | 93.8 | 94.7 | 94.8 | 95.4 | 97.6 | 100.3 | 104.1 | 109.3 | 109.7 | | | | | 156.7 | | | |
| | 630 | 106.8 | 108.9 | 104.4 | 97.9 | 95.8 | 95.1 | 96.0 | 98.4 | 101.6 | 104.0 | 108.9 | 108.6 | | | | | 158.3 | | | |
| | 800 | 103.6 | 103.1 | 99.9 | 97.4 | 96.0 | 94.1 | 94.0 | 96.7 | 100.7 | 103.2 | 106.9 | 106.6 | | | | | 155.6 | | | |
| | 1000 | 106.0 | 103.5 | 103.0 | 103.0 | 102.9 | 101.7 | 97.4 | 97.8 | 100.0 | 103.3 | 105.5 | 105.2 | | | | | 156.7 | | | |
| | 1250 | 103.7 | 104.0 | 104.0 | 104.5 | 106.1 | 107.0 | 100.4 | 98.5 | 100.2 | 101.8 | 104.0 | 104.2 | | | | | 157.7 | | | |
| | 1600 | 101.4 | 102.5 | 102.3 | 101.6 | 102.6 | 102.0 | 100.4 | 99.1 | 99.8 | 101.4 | 101.8 | 102.2 | | | | | 155.4 | | | |
| | 2000 | 100.0 | 101.3 | 101.1 | 100.9 | 101.7 | 101.3 | 101.0 | 101.1 | 101.6 | 99.7 | 100.7 | 100.1 | | | | | 155.0 | | | |
| | 2500 | 58.6 | 99.9 | 100.7 | 99.5 | 101.3 | 100.4 | 100.3 | 101.0 | 102.5 | 100.1 | 98.8 | 98.9 | | | | | 154.6 | | | |
| | 3150 | 57.6 | 98.0 | 99.3 | 98.8 | 100.6 | 99.5 | 99.6 | 99.6 | 100.0 | 103.3 | 98.7 | 97.7 | | | | | 154.1 | | | |
| | 4000 | 95.8 | 96.7 | 97.7 | 98.0 | 99.5 | 99.2 | 99.0 | 98.7 | 101.7 | 97.9 | 96.1 | 94.2 | | | | | 153.2 | | | |
| | 5000 | 93.6 | 94.0 | 96.3 | 96.3 | 98.4 | 98.0 | 97.6 | 97.0 | 99.6 | 95.3 | 94.2 | 93.2 | | | | | 151.7 | | | |
| | 6300 | 92.3 | 92.5 | 95.4 | 97.4 | 97.4 | 97.0 | 97.4 | 96.2 | 98.2 | 93.7 | 92.8 | 91.3 | | | | | 151.2 | | | |
| | 8000 | 88.2 | 89.4 | 92.5 | 91.1 | 94.7 | 92.8 | 94.9 | 93.0 | 96.5 | 90.3 | 88.6 | 86.1 | | | | | 149.1 | | | |
| | 10000 | 86.5 | 86.9 | 89.3 | 87.1 | 91.4 | 91.4 | 91.9 | 90.9 | 89.8 | 92.6 | 86.0 | 81.6 | | | | | 147.2 | | | |
| | 12500 | 85.6 | 84.9 | 89.3 | 86.5 | 89.2 | 90.7 | 89.4 | 87.8 | 92.0 | 83.4 | 63.7 | 81.4 | | | | | 147.7 | | | |
| | 16000 | 80.6 | 80.0 | 84.1 | 80.4 | 84.5 | 85.2 | 84.0 | 82.6 | 88.1 | 79.7 | 78.7 | 77.1 | | | | | 145.7 | | | |
| | 20000 | 73.8 | 73.2 | 76.4 | 72.2 | 77.1 | 77.9 | 76.4 | 75.2 | 80.9 | 72.7 | 69.3 | 64.1 | | | | | 142.3 | | | |
| | 25000 | 65.9 | 68.4 | 69.0 | 66.4 | 70.2 | 71.1 | 69.2 | 69.0 | 75.0 | 67.0 | 63.2 | 60.8 | | | | | 141.3 | | | |
| | 31500 | 61.7 | 64.2 | 67.3 | 63.5 | 65.4 | 67.6 | 65.7 | 63.2 | 71.6 | 59.7 | 54.3 | 52.0 | | | | | 145.9 | | | |
| | OVERALL CALCULATED | 112.9 | 113.4 | 112.0 | 111.0 | 112.1 | 111.9 | 110.3 | 112.7 | 114.4 | 118.9 | 119.5 | 119.2 | | | | | 168.2 | | | |
| | PND8 | 122.1 | 123.0 | 123.4 | 122.5 | 124.0 | 123.4 | 123.1 | 123.4 | 123.6 | 124.6 | 126.9 | 126.8 | | | | | 126.5 | | | |

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 7 ACUSTIC RANGE 45.7m(150ft.) ARC SIZE FULL-.33m (131in²)

FULL SIZE SOUND PRESSURE LEVELS SCALED FROM MODEL DATA (59. DEG. F, 70 PERCENT REL. HUM. DAY)
 ANGLES FROM INLET IN DEGREES (AND RADIAN) 0. C. 0. (0.) (0.) (0.)

| FREQ. | 40. | 50. | 60. | 70. | 80. | 90. | 100. | 110. | 120. | 130. | 140. | 150. | 160. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NO EGA | (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) |
| SIDELINE 24CC. FT. | 50 | 43.7 | 51.7 | 53.1 | 55.1 | 58.1 | 59.6 | 59.6 | 59.1 | 56.3 | 61.5 | 62.6 | 60.2 |
| (731.52 M) | 63 | 44.1 | 50.5 | 54.1 | 54.4 | 56.1 | 56.6 | 56.4 | 57.6 | 59.3 | 62.8 | 62.9 | 62.9 |
| NFA (0. RAD/SEC) | 80 | 46.9 | 51.0 | 54.7 | 54.4 | 57.9 | 57.9 | 57.9 | 57.9 | 62.1 | 63.9 | 66.5 | 70.1 |
| (1. RPM) | 100 | 46.9 | 52.2 | 54.4 | 55.1 | 57.4 | 59.4 | 61.7 | 62.9 | 63.6 | 66.6 | 70.9 | 71.8 |
| NFK (1. RPM) | 125 | 49.1 | 55.2 | 55.1 | 57.9 | 60.7 | 61.4 | 62.7 | 64.7 | 66.1 | 69.1 | 73.6 | 74.7 |
| (0. RAD/SEC) | 160 | 50.4 | 55.6 | 58.0 | 58.3 | 60.3 | 62.3 | 63.1 | 65.3 | 67.3 | 72.2 | 77.0 | 74.2 |
| (1. RPM) | 200 | 51.5 | 55.8 | 57.9 | 58.7 | 61.8 | 63.0 | 64.0 | 65.7 | 67.9 | 74.1 | 77.8 | 78.5 |
| (0. RAD/SEC) | 250 | 54.1 | 57.4 | 59.1 | 60.2 | 63.0 | 64.2 | 66.9 | 69.6 | 75.5 | 80.2 | 79.0 | 73.5 |
| (1. RPM) | 315 | 56.3 | 59.1 | 60.6 | 61.2 | 64.0 | 65.8 | 68.2 | 71.4 | 76.9 | 81.6 | 78.6 | 73.6 |
| (785. RAD/SEC) | 400 | 60.2 | 61.8 | 64.6 | 65.0 | 66.3 | 66.6 | 67.5 | 69.7 | 72.1 | 76.9 | 80.7 | 77.1 |
| AIRFLOW RATIO | 500 | 70.7 | 73.2 | 71.0 | 67.5 | 68.8 | 69.1 | 69.5 | 71.2 | 73.0 | 75.5 | 78.8 | 76.3 |
| WF/WM 2.73 | 630 | 75.6 | 79.7 | 76.6 | 71.1 | 69.4 | 69.0 | 69.7 | 71.6 | 73.9 | 74.8 | 77.7 | 74.2 |
| VEHICLE CELL41 | 800 | 71.5 | 73.3 | 71.5 | 70.0 | 69.1 | 67.4 | 67.1 | 69.3 | 73.4 | 74.8 | 71.1 | 65.2 |
| CONFIG NC79 | 1000 | 72.8 | 72.7 | 73.8 | 74.9 | 75.3 | 74.4 | 69.8 | 69.6 | 70.8 | 72.6 | 68.3 | 61.5 |
| LOC C41 ANECH CH | 1250 | 69.1 | 72.1 | 73.8 | 75.4 | 77.7 | 78.7 | 71.9 | 69.4 | 70.1 | 69.9 | 69.5 | 57.9 |
| DATE 09-01-76 | 1600 | 65.0 | 69.0 | 70.7 | 71.2 | 73.0 | 72.5 | 70.7 | 68.7 | 68.2 | 67.8 | 65.3 | 61.0 |
| RUN CONTINSTRCTF | 2000 | 61.2 | 65.9 | 67.8 | 69.0 | 70.6 | 70.4 | 69.8 | 69.2 | 68.3 | 64.3 | 61.9 | 55.8 |
| TAPE X00C70 | 2500 | 56.3 | 61.7 | 63.0 | 65.3 | 68.0 | 67.4 | 67.0 | 66.8 | 66.7 | 61.8 | 56.6 | 50.3 |
| FAN TIP SPEED | 3150 | 50.1 | 55.3 | 59.6 | 61.0 | 63.9 | 63.1 | 62.9 | 63.6 | 63.6 | 55.9 | 50.6 | 42.2 |
| FT/SEC | 4000 | 40.2 | 47.2 | 52.1 | 54.8 | 57.7 | 57.7 | 57.2 | 55.5 | 56.1 | 48.4 | 40.4 | 28.1 |
| OVERALL CALCULATED | 5000 | 33.3 | 40.6 | 47.3 | 50.0 | 53.5 | 53.6 | 52.7 | 50.6 | 50.6 | 41.9 | 33.9 | 21.1 |
| PNOB | 6300 | 18.2 | 27.7 | 36.4 | 39.8 | 43.7 | 44.0 | 43.7 | 40.6 | 39.1 | 28.9 | 18.7 | 1.3 |
| | 8000 | 7.0 | 18.0 | 21.4 | 27.5 | 26.5 | 27.8 | 23.3 | 22.0 | 22.0 | 7.9 | | |
| | 10000 | | | | | 5.5 | 7.2 | 5.0 | 0.3 | | | | |
| | 12500 | | | | | | | | | | | | |
| | 16000 | | | | | | | | | | | | |
| | 20000 | | | | | | | | | | | | |
| | 25000 | | | | | | | | | | | | |
| | 31500 | | | | | | | | | | | | |
| OVERALL CALCULATED | | 79.9 | 82.8 | 81.8 | 81.1 | 82.4 | 82.5 | 80.0 | 80.5 | 82.2 | 85.0 | 88.6 | 86.7 |
| PNOB | | 85.7 | 89.5 | 89.0 | 89.4 | 91.3 | 91.8 | 89.9 | 89.8 | 90.5 | 90.9 | 93.3 | 90.3 |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ANECHOIC JET NOISE TEST FACILITY RESULTS

CONFIGURATION CONICAL TEST POINT 7 ACUSTIC RANGE 731.5m(2400ft.) SIDELINE FULL - 33m²(513in²) SIZE