U.S. Department of Transportation
Federal Aviation Administration

Advisory Circular

Subject: NOISE LEVELS FOR U.S. CERTIFICATED AND FOREIGN AIRCRAFT

Date: 6/30/88 **AC No:** 36-1E
Initiated by: AEE-110 **Change:**

1. PURPOSE. This circular provides noise level data for airplanes certificated under FAR Part 36. Noise level data for foreign airplanes certificated to ICAO Annex 16 standards are also provided in a separate appendix for informational purposes. Other appendices list selected configurations of U.S. certificated aircraft and provide listings of noise levels ranked in descending order.

2. CANCELLATION. Advisory Circular 36-1D, Noise Levels for U.S. Certificated and Foreign Aircraft, dated November 4, 1985, is canceled.

3. BACKGROUND. The agency's regulatory program for airplane noise requires the quantification of airplane noise levels. Progress in the control and abatement of aircraft noise continues to be made to achieve further relief and protection to the public. This updated Advisory Circular, containing certificated airplane noise levels, will provide both private and public exposure to this progress, as well as offering a common noise level reference for potential future reductions.

4. NOISE LEVELS. Noise levels during type certification under FAR Part 36 and ICAO Annex 16, and definitions are presented in Appendices 1 through 9. Formulas for calculating the appropriate FAR Part 36 noise level requirements, as contained in section C36.5 and F36.301, follow the appropriate appendix. Aircraft noise levels are shown as complying with either Stage 2 or Stage 3 noise levels.

A "Stage 2 airplane" means an airplane that has been shown under FAR Part 36 to comply with Stage 2 noise levels prescribed in Section C36.5 of Appendix C (including use of the applicable tradeoff provisions) and that does not comply with the requirements for a Stage 3 airplane.

A "Stage 3 airplane" means an airplane that has been shown under FAR Part 36 to comply with Stage 3 noise levels prescribed in section C36.5 of Appendix C (including use of the applicable tradeoff provisions).

Appendix 1 provides noise levels of turbojet powered aircraft, measured during type certification under FAR Part 36 Appendix C. This appendix includes tabulations of engine model, maximum takeoff weights, landing

weights, flap settings, the "Stage" with which aircraft noise levels comply, and the measured noise in Effective Perceived Noise Level (EPNdB). Data are not presented for all of the maximum certificated takeoff weights for each aircraft type. Rather, the data presented generally represent the highest and lowest maximum certificated takeoff weight.

As required by Part 36, certification noise levels for approach (APP.) are those which are most critical from a noise standpoint for the airplane configurations used to show compliance with the landing requirements in the airworthiness regulations constituting the type certification basis of the airplane. Takeoff (T/O) certification noise levels are presented for takeoff with thrust cutback unless there is an asterisk (*) in the "NOTES" column, in which case full takeoff thrust certification noise levels are presented.

It should be noted that the sideline (S/L) noise levels are generally presented for the current 450-meter distance. However, some four-engine aircraft configurations were certificated to the earlier 650-meter standard; these configurations are denoted with a double asterisk (**) in the "NOTES" column.

Since the original measurement locations and noise test conditions cited in FAR Part 36, November 18, 1969, have been amended through the years, the noise levels contained herein are for the measurement locations and noise test conditions applicable at the time of certification. In each case, the measured data have been corrected to sea level, 77°F, 70% relative humidity conditions using the procedures outlined in FAR Part 36. Specific information providing more detail on either the measurement locations or noise test conditions, if available, are indicated by the notes accompanying each listing. Blank spaces or lack of notes in the report indicate the data were not available.

Appendix 2 contains several listings of foreign turbojet powered aircraft certificated to ICAO Annex 16, Chapters 2 and 3 and are provided for informational purposes. Aircraft certificated to both U.S. and foreign standards are only listed in Appendix 1.

Appendix 3 provides a listing of U.S. certificated Stage 3 turbojet powered aircraft. These aircraft are also included in Appendix 1.

Appendices 4 and 5 represent selected listings of noise levels for turbojet powered aircraft certificated under FAR Part 36 Appendix C. Appendices 4 and 5 provide listings of takeoff and approach noise levels in EPNdB, respectively, in descending order. Representative models of each aircraft are listed, using the maximum takeoff weight available. These listings are presented as a convenience in locating noise level data on specific aircraft models. For a more detailed listing on variations of a representative model, see Appendix 1.

Appendix 6 contains noise levels of U.S. propeller-driven aircraft, certificated in the transport category. Noise levels measured during type certification were obtained under FAR Part 36 Appendix C. This includes tabulations of maximum takeoff weights, landing weights, engine type, horsepower, propeller type, diameter, and flap settings. The "Stage" with which the aircraft noise levels comply is also provided, as well as the Effective Perceived Noise Level (EPNdB).

Appendix 7 lists the certificated airplane noise levels for U.S. certificated, propeller-driven small airplanes. This appendix includes a tabulation of maximum takeoff weights, landing weights, engine type, horsepower used in noise certification, propeller type and diameter. The measured A-weighted sound levels (dBA) for flyover have been corrected to sea level 77°F, 70% relative humidity conditions where required by FAR Part 36, Appendix F.

Appendix 8 contains listings of foreign propeller-driven small aircraft certificated under ICAO Annex 16, Chapter 6. Noise levels are listed for informational purposes.

Appendix 9 provides definitions that apply to column headings of the preceding appendices.

4. REVISIONS. The airplane noise level listings of this Advisory Circular will be revised and updated periodically.

J. E. Densmore
Deputy Director of Environment and Energy

LIST OF APPENDICES

APPENDIX 1
AIRCRAFT NOISE DATA FOR
UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER — MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. (FEET)	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
AEROSPATIALE SN601 CORVETTE	13.9	12.4	2 JT15D-4	2.5	2.5	15	35	2525	80.4	85.4	89.5	3	*	A-1
AEROSPATIALE SN601 CORVETTE	14.6	13.2	2 JT15D-4	2.5	2.5	15	35	2610	74.0	81.0	90.0	3		A-1
AIRBUS A300B2-203	313.1	286.6	2 CF6-50C2	51.8	4.3	16	25		91.1	97.9	103.1	3		AI
AIRBUS A300B4-103	347.2	295.4	2 CF6-50C2	51.8	4.3	16	25		93.6	97.7	103.0	3		AI
AIRBUS A300B4-203	363.7	295.4	2 CF6-50C2	51.8	4.3	16	25		96.0	96.9	102.4	3		AI
AIRBUS A300B4-605R	375.1	308.0	2 CF6-80-C2-A5	60.2	5.2		40		91.1	98.9	99.8			NM
AIRBUS A310-221	305.6	267.9	2 JT9D-7R4D1	48.0	4.5	15	40		90.5	94.8	100.6	3		NM
AIRBUS A310-324	330.7	271.2	2 PW-4152			15	40		90.6	97.2	100.2			NM
BEECH MU-300-10	15.8	14.2	2 JT15D-5	2.9		10	30		88.6	93.7	91.4	3	*	SW
BOEING B-727-100	152.5	135.0	3 JT8D-7FCD	14.0	1.1	5	40		94.4	100.3	104.1	2	3,16	B-1

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BOEING B-727-100	160.5	137.5	3 JT8D-1FCD	14.0	1.1	5	40		96.6	99.2	104.3	2	13	A-1 B-1
BOEING B-727-100	160.5	137.5	3 JT8D-9FCD	14.5	1.0	5	40		96.1	100.2	105.8	2	13,17	A-1 B-1
BOEING B-727-100	169.5	137.5	3 JT8D-1FCD	14.0	1.1	5	40		98.5	99.1	104.3	2	13	A-1 B-1
BOEING B-727-100	169.5	137.5	3 JT8D-7FCD	14.0	1.1	5	40		97.9	100.0	104.3	2	13,16	B-1
BOEING B-727-100	169.5	137.5	3 JT8D-9FCD	14.5	1.0	5	40		98.3	100.0	105.8	2	13,17	A-1
BOEING B-727-200	172.5	142.5	3 JT8D-7FCD	14.0	1.1	15	40	1270	100.0	100.4	106.3	2	13,16	B-1
BOEING B-727-200	172.5	142.5	3 JT8D-7QN	14.0	1.1	15	40		100.0	100.4	104.9	2	12,16	A-1 B-1
BOEING B-727-200	172.5	142.5	3 JT8D-9QN	14.5		15	40		99.0	100.4	103.2	2	12,17	B-1
BOEING B-727-200	177.6	142.5	3 JT8D-7FCD	14.0	1.1	5	40	1270	99.8	99.8	106.3	2	13,16	B-1 NM
BOEING B-727-200	178.0	150.0	3 JT8D-9FCD	14.5	1.0	5	30		100.7	99.8	105.8	2	13,17	B-1 NM

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BOEING B-727-200	184.2	142.5	3 JT8D-15QN	15.5		5	40		98.8	102.2	103.2	2	2,18	A-1 B-1
BOEING B-727-200	184.8	142.5	3 JT8D-9QN	14.5		15	40		101.5	100.2	103.2	2	2,17	A-1 B-1
BOEING B-727-200	190.5	142.5	3 JT8D-15QN	15.5		5	40		100.0	102.2	103.2	2	2,18	B-1
BOEING B-727-200	190.5	142.5	3 JT8D-17QN	16.0		5	40		99.6	103.7	103.2	2	2,19	A-1 B-1
BOEING B-727-200	190.5	142.5	3 JT8D-17RQN	16.4		5	40		98.9	104.7	103.2	2	2,20	A-1 B-1
BOEING B-727-200	203.1	158.0	3 JT8D-17QN	16.0		5	40		102.0	103.5	104.5	2	2,19	B-1
BOEING B-727-200	208.0	142.5	3 JT8D-17RQN	16.4		5	40		102.4	104.2	103.2	2	2,20	A-1 B-1
BOEING B-737-200 ADV.	115.5	101.0	2 JT8D-15QN	15.5	1.0	1	40		94.4	103.1	105.0	2	2,18	B-1
BOEING B-737-200 ADV.	115.5	95.3	2 JT8D-17QN	16.0		1	40		93.6	104.4	104.5	2	2,19	B-1
BOEING B-737-200 ADV.	115.5	103.0	2 JT8D-9QN	14.5		1	40		95.3	100.6	105.1	2	2,17	B-1

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BOEING B-737-200 ADV.	122.5	105.0	2 JT8D-9QN	14.5		1	40		96.9	99.9	105.3	2	2,17	B-1
BOEING B-737-200 ADV.	128.1	88.0	2 JT8D-15QN	15.5	1.0	1	40		97.7	102.4	103.8	2	2,18	B-1
BOEING B-737-200 ADV.	128.1	79.1	2 JT8D-17QN	16.0	1.0	1	40		97.0	104.1	102.8	2	2,19	B-1
BOEING B-737-200 NON-ADV.	100.5	95.0	2 JT8D-7QN	14.0	1.1	1	40		92.1	101.7	102.1	2	2,16	A-1 B-1
BOEING B-737-200 NON-ADV.	109.0	98.0	2 JT8D-7QN	14.0	1.1	1	40		94.7	101.3	102.1	2	2,16	B-1
BOEING B-737-200 NON-ADV.	109.0	95.0	2 JT8D-9QN	14.5	1.0	1	40		93.2	100.7	104.8	2	2,17	A-1 B-1
BOEING B-737-200 NON-ADV.	117.0	101.7	2 JT8D-9QN	14.5	1.0	1	40		95.5	100.3	105.3	2	2,17	A-1 B-1
BOEING B-737-300	124.5	114.0	2 CFM56-3-B-1	20.0	5.0	1	40		84.4	90.4	99.9	3		B-1
BOEING B-737-300	124.5	114.0	2 CFM56-3B-2	22.0	5.0	1	40		82.8	92.2	99.9	3		B-1
BOEING B-737-300	139.5	114.0	2 CFM56-3-B-1	20.0	5.0	1	40		87.5	89.9	99.9	3		B-1

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BOEING B-737-300	139.5	114.0	2 CFM56-3B-2	22.0	5.0	1	40		85.7	91.9	99.9	3		B-1
BOEING B-747-100	710.0	564.0	4 JT9D-3A	44.2	5.1	10	30		108.4	99.7	107.2	2	* **	B-1
BOEING B-747-100	710.0	564.0	4 JT9D-7	46.3	5.1	10	30		108.0	100.2	107.4	2	* **	B-1
BOEING B-747-100	734.0	564.0	4 JT9D-3A	44.2	5.1	10	30		109.4	99.6	107.2	2	* **	B-1
BOEING B-747-100	730.0	585.0	4 JT9D-7A	47.0	5.1	10	30		107.8	98.8	106.9	2	* **	B-1
BOEING B-747-100	750.0	585.0	4 JT9D-7F	48.0	5.1	10	30		107.7	99.0	107.4	2	* **	B-1
BOEING B-747-100	750.0	585.0	4 JT9D-7FW	50.0	5.1	10	30		107.6	99.4	107.4	2	* **	B-1
BOEING B-747-100	750.0	585.0	4 JT9D-7MET	47.9	5.1	10	30		107.4	99.3	106.9	2	* **	B-1
BOEING B-747-100	750.0	585.0	4 RB.211-524C2	51.6	4.5	10	30		104.5	96.9	106.5	2	* **	B-1
BOEING B-747-200	767.0	564.0	4 JT9D-3A	44.2	5.1	10	30		110.0	98.2	106.5	2	* **	B-1

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BOEING B-747-200	770.0	564.0	4 JT9D-7	46.3	5.1	10	30		108.9	98.8	106.7	2	* **	B-1
BOEING B-747-200	773.0	585.0	4 JT9D-3AWET	45.8	5.1	10	30		109.1	98.7	106.7	2	* **	B-1
BOEING B-747-200	775.0	585.0	4 CF6-50E	52.5	4.1	10	30		100.7	101.1	105.9	3		B-1
BOEING B-747-200	775.0	564.0	4 JT9D-7F	48.0	5.1	10	30		108.6	98.9	107.2	2	* **	B-1
BOEING B-747-200	775.0	564.0	4 JT9D-7Q	53.0	4.9	10	30		100.2	103.8	106.2	3		B-1
BOEING B-747-200	785.0	630.0	4 JT9D-7A	47.0	5.1	10	30		109.3	98.7	107.3	2	* **	B-1
BOEING B-747-200	785.0	630.0	4 JT9D-7WET	47.9	5.1	10	30		108.7	99.1	107.3	2	* **	B-1
BOEING B-747-200	800.0	630.0	4 JT9D-7F	48.0	5.1	10	30		109.7	98.8	107.8	2	* **	B-1
BOEING B-747-200	800.0	630.0	4 JT9D-7J	50.0	5.1	10	30		109.3	99.2	107.8	2	* **	B-1
BOEING B-747-200	800.0	630.0	4 RB.211-524B/B2	50.1	4.3	10	30		105.5	96.0	107.3	2	* **	B-1

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BOEING B-747-200	805.0	630.0	4 JT9D-7FW	50.0	5.1	10	30		109.4	99.2	107.8	2	* **	B-1
BOEING B-747-200	812.0	630.0	4 JT9D-7FW/-7J	50.0	5.1	10	30		109.7	99.2	107.4	2	* **	B-1
BOEING B-747-200	820.0	630.0	4 CF6-50E	52.5	4.1	10	30		102.5	100.9	107.0	3		B-1
BOEING B-747-200	820.0	630.0	4 CF6-50E2	52.5	4.1	10	30		102.1	101.7	106.5	3		B-1
BOEING B-747-200	820.0	630.0	4 JT9D-70A	53.0	4.9	10	30		101.1	98.5	106.0	3		B-1
BOEING B-747-200	820.0	630.0	4 RB.211-524B/B2	50.1	4.3	10	30		105.5	95.9	107.3	2	**	B-1
BOEING B-747-200	820.0	615.0	4 RB.211-524B2	50.1	4.3	10	30		105.5	95.9	107.0	2	**	B-1
BOEING B-747-200	833.0	630.0	4 CF6-50E2	52.5	4.1	10	30		102.6	101.7	106.5	3		B-1
BOEING B-747-200	833.0	600.0	4 JT9D-7Q	53.0	4.9	10	30		103.2	103.5	106.6	3		B-1
BOEING B-747-200	833.0	630.0	4 JT9D-7Q	53.0	4.9	10	25		103.2	103.5	104.4	3		B-1

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BOEING B-747-200	833.0	585.0	4 RB.211-524C2	51.6	4.3	10	30		106.5	99.7	107.0	3	e	B-1
BOEING B-747-200	833.0	630.0	4 RB.211-524D4	53.1	4.2	10	30		103.9	99.7	104.9	3		B-1
BOEING B-747-300	785.0	630.0	4 JT9D-7R4G2	54.8	4.8	10	30		100.1	101.5	106.6	3		B-1
BOEING B-747-300	800.0	630.0	4 CF6-50E2	52.5	4.3	10	30		101.6	101.8	106.5	3		B-1
BOEING B-747-300	820.0	630.0	4 JT9D-7R4G2	54.8	4.8	10	30		101.8	101.3	106.6	3		B-1
BOEING B-747-300	833.0	630.0	4 CF6-80C2-B1	56.7	5.0	10	30		99.0	98.2	104.3	3		B-1
BOEING B-747-300	833.0	630.0	4 JT9D-7R4G2	54.8	4.8	10	30		102.4	101.3	106.6	3		B-1
BOEING B-747-SP	660.0	450.0	4 JT9D-7A	47.0	5.1	10	30		99.6	101.3	102.5	3		B-1
BOEING B-747-SP	660.0	475.0	4 JT9D-7F	48.0	5.1	10	30		98.7	102.3	103.8	3		B-1
BOEING B-747-SP	696.0	475.0	4 JT9D-7J	50.0	5.1	10	30		99.8	103.5	103.8	3		B-1

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BOEING B-747-SP	696.0	450.0	4 RB.211-524B2	50.1	4.3	10	30		99.5	99.8	103.2	3		B-1
BOEING B-747-SP	701.0	465.0	4 JT9D-7A	47.0	5.1	10	30		102.0	101.1	102.9	3		B-1
BOEING B-747-SP	702.0	475.0	4 JT9D-7J	50.0	5.1	10	30		100.1	103.3	103.8	3		B-1
BOEING B-747-SP	702.0	450.0	4 JT9D-7J	50.0	5.1	10	30		100.1	103.3	103.2	3		B-1
BOEING B-747-SP	702.0	410.0	4 RB.211-524D4	51.6	4.2	10	30		99.2	99.8	107.0	3		B-1
BOEING B-747-SR	570.0	564.0	4 JT9D-7A	47.0	5.1	10	30		100.2	101.8	106.9	3	*	B-1
BOEING B-747-SR	571.0	564.0	4 CF6-45A2	46.5	4.1	10	30		98.4	93.2	105.4	3		B-1
BOEING B-747-SR	610.0	564.0	4 JT9D-7A	47.0	5.1	10	30		101.8	101.6	106.9	3	*	B-1
BOEING B-757-200	220.0	198.0	2 PW 2037PIP	38.2	5.8	5	30		86.2	94.0	97.7	3		B-1
BOEING B-757-200	220.0	198.0	2 RB.211-535-E4	40.1	4.1	5	30		82.2	93.3	95.0	3		B-1

APPENDIX 1
AIRCRAFT NOISE DATA FOR
UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
BOEING B-757-200	240.0	198.0	2 RB.211-535C	37.4	4.5	5	30		88.1	93.8	100.3	3		B-1
BOEING B-757-200	250.0	198.0	2 PW 2037PIP	38.2	5.8	5	30		90.6	93.7	97.7	3		B-1
BOEING B-757-200	250.0	198.0	2 RB.211-535-E4	40.1	4.1	5	30		86.1	93.0	95.0	3		B-1
BOEING B-757-200PF	250.0	210.0	2 PW 2040	41.7	5.7	5	30		88.9	94.2	98.1	3		B-1
BOEING B-767-200	279.9	257.0	2 CF6-80A	48.0	4.6	1	30		84.9	95.5	101.4	3		B-1
BOEING B-767-200	279.9	257.0	2 CF6-80A2	50.0	4.6	1	30		84.2	97.2	101.4	3		B-1
BOEING B-767-200	282.0	257.0	2 JT9D-7R4D(A)	48.0	5.0	1	30		87.7	95.7	101.8	3		B-1
BOEING B-767-200	282.0	257.0	2 JT9D-7R4D(B)	48.0	5.0	1	30		88.4	95.9	101.9	3		B-1
BOEING B-767-200	282.0	257.0	2 JT9D-7R4E	50.0	5.0	1	30		87.5	96.8	101.9	3		B-1
BOEING B-767-200	300.0	270.0	2 CF6-80C2-B2	52.5	5.0	1	30		85.2	94.1	95.7	3		B-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
BOEING B-767-200	351.0	300.0	2 CF6-80C2-B2	52.5	5.0	1	30		89.5	93.7	96.4	3		B-1
BOEING B-767-200	351.0	270.0	2 CF6-80C2-B4	57.9	5.0	1	30		87.7	95.3	95.7	3		B-1
BOEING B-767-200	351.0	300.0	2 JT9D-7R4D(A)	48.0	5.0	1	30		95.1	95.2	102.7	3		B-1
BOEING B-767-200	360.0	300.0	2 CF6-80A	48.0	4.6	1	30		92.8	94.8	101.7	3		B-1
BOEING B-767-200	360.0	300.0	2 CF6-80A2	50.0	4.6	1	0		91.7	96.5	101.7	3		B-1
BOEING B-767-200	360.0	300.0	2 JT9D-7R4D(B)	48.0	5.0	1	30		96.2	95.3	102.6	3		B-1
BOEING B-767-200	360.0	300.0	2 JT9D-7R4E	50.0	5.0	1	30		95.4	96.2	102.6	3		B-1
BOEING B-767-200	387.0	300.0	2 CF6-80C2-B4	57.9	5.0	1	30		90.6	95.0	96.4	3		B-1
BOEING B-767-300	300.0	280.0	2 CF6-80A	48.0	4.6	5	30		87.5	95.2	101.7	3		B-1
BOEING B-767-300	300.0	280.0	2 CF6-80A2	50.0	4.6	5	30		86.7	96.9	101.7	3		B-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER ----- MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
BOEING B-767-300	300.0	280.0	2 JT9D-7R4D(B)	48.0	5.0	5	30		91.0	95.7	102.3	3		B-1
BOEING B-767-300	300.0	280.0	2 JT9D-7R4E	50.0	5.0	5	30		90.0	96.5	102.3	3		B-1
BOEING B-767-300	351.0	320.0	2 CF6-80A	48.0	4.6	5	30		92.0	94.9	101.7	3		B-1
BOEING B-767-300	351.0	320.0	2 CF6-80A2	50.0	4.6	5	30		91.2	96.5	101.7	3		B-1
BOEING B-767-300	351.0	320.0	2 JT9D-7R4D(B)	48.0	5.0	5	30		95.7	95.4	103.0	3		B-1
BOEING B-767-300	351.0	320.0	2 JT9D-7R4E	50.0	5.0	5	30		95.0	96.2	103.0	3		B-1
BOEING B-767-300	380.0	280.0	2 CF6-80C2-B4	57.9	5.0	5	30		90.2	95.3	96.5	3		B-1
BOEING B-767-300	380.0	280.0	2 CF6-80C2-B6	61.5	5.0	5	30		89.2	96.4	96.5	3		B-1
BOEING B-767-300	407.0	320.0	2 CF6-80C2-B4	57.9	5.0	5	30		92.1	95.2	98.4	3		B-1
BOEING B-767-300	407.0	320.0	2 CF6-80C2-B6	61.5	5.0	5	30		91.1	96.3	98.4	3		B-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
BOEING W/SHANNON GN B-707-120B	258.0	190.0	4 JT3D-1				30	1253	103.5	97.6	105.3	2	21,**	B-1
BOEING W/SHANNON GN B-707-138B	258.0	190.0	4 JT3D-1				30	1265	103.2	97.6	105.3	2	21,**	B-1
BOEING W/SHANNON GN B-707-300B(ADV)/300C	322.3	247.0	4 JT3D-1-3B(IC)			14	25		105.5	99.3	105.7	2	21,**	B-1
BRITISH AEROSPACE 1-11 200	80.0	71.0	2 SPEY 506	10.4	1.0	3	45	1970	93.3	99.1	97.8	2	12	BA
BRITISH AEROSPACE 1-11 400	87.0	77.2	2 SPEY511-14/14W	11.4	0.7	0	45	1925	94.8	103.4	99.7	2		BA
BRITISH AEROSPACE 1-11 400	89.5	77.0	2 SPEY511-14/14W	11.4	0.7	0	45	1925	93.8	99.9	99.8	2	12	BA
BRITISH AEROSPACE 125-800A	27.4	23.4	2 TFE731-5R-1H	4.2		0	45		80.9	89.6	96.6	3		SW
BRITISH AEROSPACE 146-100A	76.0	72.3	4 ALF502R-3	6.7	5.9	18	33	1980	80.7	87.2	95.1	3		BA
BRITISH AEROSPACE 146-200A	89.5	79.5	4 ALF502R-5	7.0	5.7	18	33	1280	84.9	87.3	95.6	3	1	CR
BRITISH AEROSPACE BAC 125-800	27.4	23.4	2 TFE731-5R-1H	3.7		0	45	1500	80.9	87.2	96.5	3		CR

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/1000)	LW (LBS/1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/1000)	FLAPS BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
BRITISH AEROSPACE HS 125-1A	21.2	19.6	2 TFE 731-3R	3.7			45		83.4	90.1	96.0	3		BA
BRITISH AEROSPACE HS 125-1A	21.7	19.6	2 TFE 731-3	3.7			45		84.2	90.0	96.0	3	*	BA
BRITISH AEROSPACE HS 125-3A	21.7	20.0	2 TFE 731-3	3.7			45		84.2	90.0	96.3	3		BA
BRITISH AEROSPACE HS 125-3A/RA	23.6	20.0	2 TFE 731-3	3.7			45		85.5	89.8	95.7	3		BA
BRITISH AEROSPACE HS 125-400A	23.6	20.0	2 TFE 731-3	3.7			45		85.5	89.8	95.7	3		BA
BRITISH AEROSPACE HS 125-600A	25.5	22.0	2 TFE 731-3	3.7			45		88.0	89.2	96.3	3		BA
BRITISH AEROSPACE HS 125-600A	25.5	22.0	2 VIPER 601	3.7			45		92.3	99.2	102.9	2	12	BA
BRITISH AEROSPACE HS 125-700A	25.5	22.0	2 TFE 731-3	3.7			45		88.0	89.2	96.3	3		BA
BRITISH AEROSPACE HS 125-700A	25.5	22.0	2 TFE 731-3R	3.8			45		91.6	92.1	96.0	2	*	BA
CANADAIR CL-600	36.0	33.0	2 ALF-502	7.5	5.0	20	45		81.6	89.3	91.2	3	*	CR

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
CANADAIR CL-601 CHALLENGER	42.1	36.0	2 CF34-1A	8.6	6.3	20	45		79.4	84.9	89.4	3	*	CR
CESSNA 500 CITATION I	10.3	9.9	2 JT15D-1	2.2	3.3	15	40		79.0	86.1	87.7	3	*	CE
CESSNA 500/501 CITATION I	11.8	11.3	2 JT15D-1/-1A	2.2	3.3	15	40		76.4	86.1	87.7	3	*	CE
CESSNA 550 CITATION II	13.3	12.7	2 JT15D-4	2.5	3.3	15	40	3560	80.1	86.7	90.5	3	*	CE
CESSNA 551 CITATION II	12.5	12.0	2 JT15D-4	2.5	3.3	15	40	3560	80.1	86.7	90.5	3	*	CE
CESSNA 552	15.5	14.3	2 JT15D-5	2.9	2.1	20	35		89.3	94.7	88.5		*	CE
CESSNA 650 CITATION III	21.0	17.0	2 TFE731-3B-100S	3.7	3.1	20	37	2628	84.9	92.5	92.4	3		CE
CESSNA 650 CITATION III	22.0	20.0	2 TFE731-3B-100S	3.7	3.1	20	37	2682	84.6	92.9	93.8	3		CE
CESSNA S550	14.7	14.0	2 JT15D-4B	2.5	2.7	20	35		87.9	91.6	35.1		*	CE
DASSAULT BREGUET FALCON 10	18.3	17.2	2 TFE 731-2	3.2	2.8	15	52		82.9	86.4	95.3	3		CR

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER ——— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. (FEET)	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
DASSAULT BREGUET FALCON 20	28.7	27.3	2 CF700-20-2	4.5					90.0	92.3	103.0	2		
DASSAULT BREGUET FALCON 200 MYSTERE	32.0	27.6	2 ATF3-6-4C	5.1	2.9	5	40	2260	83.9	89.0	93.9	3		EU
DASSAULT BREGUET FALCON 50	38.8	35.7	3 TFE 731-2	3.7	2.8	20	48		84.3	91.6	97.4	3		CR
DASSAULT BREGUET FALCON 900	45.5	42.0	3 TFE-731-5A	4.5	3.5				81.9	89.2	91.7	3		EU
FOKKER F28 MK1000	65.0	59.0	2 SPEY MK555-15	9.4	1.0	6	42		90.0	99.5	101.2	2		NM
FOKKER F28 MK2000	65.0		2 SPEY MK555-15	9.9		6	42		90.0	99.5	101.8	2	*	A-1
FOKKER F28 MK3000	71.0	64.0	2 SPEY MK555-15H	9.8	1.0	6	42		91.0	99.3	99.4	2		NM
FOKKER F28 MK4000	73.0	65.8	2 SPEY MK555-15H	9.8	1.0	6	42		91.9	99.2	99.4	2		NM
FOKKER F28 MK4000	73.0	69.5	2 SPEY MK555-15P	9.9	1.0	6	42		92.9	101.7	101.4	2		NM
GATES LEARJET 23	12.5	11.9	2 CJ610-1/-4	1.3		10			88.0	103.8	98.0	2		CR

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER ------ MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
GATES LEARJET 24	13.0	11.9	2 CJ610-1/-4	1.4		10			89.0	103.8	98.0	2		CR
GATES LEARJET 24/24D	13.5	11.9	2 CJ610-6	3.0		20	40		91.8	99.3	100.7	2	13	A-1,GA-1
GATES LEARJET 24D	13.5	11.9	2 CJ610-6	3.0		20	40		91.8	99.3	101.7	2	14	GA-1
GATES LEARJET 24D	13.5	11.9	2 CJ610-6	3.0		20	40	4472	91.9	104.0	96.7	2		CE,GA-1
GATES LEARJET 24E	12.9	11.9	2 CJ610-6	3.0		8	40		84.3	103.9	95.3	2		A-1,GA-1
GATES LEARJET 24F	13.5	11.9	2 CJ610-6	3.0		8	40		85.8	103.7	95.3	2		A-1,GA-1
GATES LEARJET 24F-A	12.5	11.9	2 CJ610-6	3.0		8	40		83.6	103.9	95.3	2		GA-1
GATES LEARJET 25	15.0	13.3	2 CJ610-6	3.0					94.0	100.8	99.3	2		A-1
GATES LEARJET 25 B/C/D/F XR	16.3	13.3	CJ610-6/8A	3.0		10	40		93.5	103.9	99.0	2		SW
GATES LEARJET 25C	15.0	13.3	2 CJ610-6	3.0		20	40		94.0	100.8	99.3	2	13	A-1,GA-1

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER / MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. (FEET)	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
GATES LEARJET 25D	15.0	13.3	2 CJ610-6	3.0		20	40		94.0	102.7	99.3	2	14	A-1,GA-1
GATES LEARJET 25D/25F	15.0	13.3	2 CJ610-6/8A	3.0		8	40		90.1	103.7	95.2	2		GA-1
GATES LEARJET 28/29	15.0	14.3	2 CJ610-8A	3.0		8	40		87.0	99.7	101.7	2		GA-1
GATES LEARJET 35/36	17.0	14.3	2 TFE 731-2-2B	3.5	2.0	20	40	3250	84.0	86.9	92.2	3	*	CE,GA-1
GATES LEARJET 35/36	18.0	14.3	2 TFE731-2-2B	3.5		20	40	2847	84.5	87.9	92.2	3	*	GA-1
GATES LEARJET 35A	18.0	14.3	2 TFE 731-2-2B	3.5		20	40		83.6	87.4	91.3	3	*	GA-1
GATES LEARJET 35A/36A	18.0	14.3	2 TFE 731-2-2B	3.5		8	40	2980	78.7	87.4	91.3	3		CE
GATES LEARJET 35A/36A	18.3	15.3	2 TFE 731-2-2B	3.5		8	40	3160	79.2	86.7	91.4	3		CE
GATES LEARJET 36A	18.3	15.3	2 TFE731-2-2B	3.5		20	40		83.9	87.8	91.4	3	*	GA-1
GATES LEARJET 55	19.5	17.0	2 TFE731-3A-2B	3.7		8	40	3258	84.2	90.9	90.6	3	*	CE,GA-1

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER ——— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
GATES LEARJET 55	21.0	17.0	2 TFE731-3A-2B	3.7		8	40		85.5	90.7	90.6	3	*	CE,GA-1
GULFSTREAM AMER. G-II GULFSTREAM	62.0	58.5	2 SPEY 511-8	11.4		20	39	2400	90.0	102.7	98.2	2	12	GA-1 SO
GULFSTREAM AMER. G-II GULFSTREAM	65.5	58.5	2 SPEY 511-8	11.4		10	39	2820	92.5	103.0	98.4	2	12	SO
GULFSTREAM AMER. G-IIB/G-III	68.2	58.5	2 SPEY 511-8	11.4		10	39	2800	91.3	102.9	97.3	2	12	SO
GULFSTREAM AMER. G-III	69.7	58.5	2 SPEY 511-8	11.4		10	39	2562	91.1	103.4	97.3	2	12	SO
GULFSTREAM AMER. G-IV GULFSTREAM	71.7	58.5	2 TAY 610-8	12.4		20	39	2660	79.0	86.5	91.0	3		CR
ISRAEL AIRCRAFT 1124 WESTWIND	22.9		2 TFE731-3-1B	3.7		20	20		81.2	80.3	88.4	3		GA-1
ISRAEL AIRCRAFT 1124A WESTWIND 2	23.5		TFE-731-3-100G	3.7	2.8				85.4		92.8			
ISRAEL AIRCRAFT 1125	23.5	20.7	2 TFE731-3A-200G			* 12	40	1950	84.1	89.7	89.8	3		NM
LOCKHEED 1329-23	43.8		4 TFE731-3-1E	3.7	2.8	20	59		92.7	88.1	96.9	2	* **	GA-1,SO

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
LOCKHEED 1329-25 JETSTAR II	44.5	36.0	4 TFE731-3	3.7	2.8				93.1	88.1	96.9	2	* **	SO
LOCKHEED L-1011	430.0	358.0	3 RB.211-22B	41.0		14	42		95.9	95.1	102.8	3	5 *	A-1
LOCKHEED L-1011-1	430.0	358.0	3 RB.211-22B	42.0		10	42		96.0	95.0	102.8	3	5 *	L-1
LOCKHEED L-1011-100	466.0	368.0	3 RB.211-22B	42.0		10	42		98.5	94.9	102.8	3	5 *	L-1
LOCKHEED L-1011-200	466.0	368.0	3 RB.211-524B	50.0		10	33		98.1	97.9	101.4	3	5 *	L-1
LOCKHEED L-1011-500	496.0	368.0	3 RB.211-524B	50.0		14	33		98.4	97.8	101.5	3	5 *	L-1
LOCKHEED L-1011-500	496.0	368.0	3 RB.211-524B3	50.0		14	33		97.4	96.7	100.3	3	5 *	L-1
LOCKHEED L-1011-500	504.0	368.0	3 RB.211-524B3	50.0		22	33		98.0	96.9	100.2	3	5 *	L-1
LOCKHEED L-1011-500	510.0	368.0	3 RB211-524B4			10	33		99.3	96.4	102.0	3	*	L-1
MCDONNELL DOUGLAS DC-08-51 w/BAC QN	276.0	207.0	4 JT3D-3B			15	35		100.0	101.7	103.1	2		SW

APPENDIX 1
AIRCRAFT NOISE DATA FOR
UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER ------ MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-8-52 w/BAC QN	305.0	207.0	4 JT3D-3B			15	35	1240	104.1	101.6	103.1	2		SW
MCDONNELL DOUGLAS DC-8-53 w/BAC QN	313.7	207.0	4 JT3D-3B			15	35	1125	105.3	101.5	103.1	2	6,**	SW
MCDONNELL DOUGLAS DC-8-55 w/BAC QN	313.7	245.0	4 JT3D-3B			15	35	1125	105.3	101.5	106.8	2	6,**	SW
MCDONNELL DOUGLAS DC-8-61/61Fw/BAC QN	313.7	248.0	4 JT3D-3B			15	35	1125	105.3	101.5	107.1	2	6,**	SW
MCDONNELL DOUGLAS DC-8-62 W/ADC QN	335.0	240.0	4 JT3D-3B	1.8		12	50	927	102.5	98.2	108.3	2	6,**	NM
MCDONNELL DOUGLAS DC-8-62 W/ADC QN	335.0	240.0	4 JT3D-7	1.8		12	50	1031	101.6	98.8	108.3	2	6,**	NM
MCDONNELL DOUGLAS DC-8-62 W/ADC QN	350.0	250.0	4 JT3D-3B	1.8		12	50	795	104.3	98.1	108.3	2	6,**	NM
MCDONNELL DOUGLAS DC-8-62 W/ADC QN	350.0	250.0	4 JT3D-7	1.5		12	50	871	103.4	98.5	108.3	2	6,**	NM
MCDONNELL DOUGLAS DC-8-62 W/TNC QN	335.0	240.0	4 JT3D-3B			12	50		101.7	99.1	107.8	2	6,**	SW
MCDONNELL DOUGLAS DC-8-62 W/TNC QN	335.0	250.0	4 JT3D-7			12	35		100.7	101.0	106.5	2	6,**	SW

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-08-62 W/TNC ON	350.0	250.0	4 JT3D-3B			12	50		103.6	98.8	107.9	2	6,**	SW
MCDONNELL DOUGLAS DC-08-62 W/TNC ON	355.0	275.0	4 JT3D-7			12	35		102.7	100.7	107.6	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/ADC ON	355.0	245.0	4 JT3D-3B			12	50	774	104.8	98.1	108.3	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/ADC ON	355.0	275.0	4 JT3D-3B			12	50	774	104.8	98.1	108.4	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/ADC ON	355.0	275.0	4 JT3D-7			12	50	810	104.1	108.4	108.4	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/ADC ON	355.0	245.0	4 JT3D-7			12	50	810	104.1	98.2	108.3	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/TNC ON	335.0	240.0	4 JT3D-3B			12	50		101.7	99.1	107.8	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/TNC ON	335.0	250.0	4 JT3D-7			12	35		100.7	101.0	106.5	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/TNC ON	350.0	250.0	4 JT3D-3B			12	50		103.6	98.8	107.9	2	6,**	SW
MCDONNELL DOUGLAS DC-08-63 W/TNC ON	355.0	275.0	4 JT3D-7			12	35		102.7	100.7	107.6	2	6,**	SW

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER — MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-08-71	325.0	240.0	4 CFM56-2-C1	22.0	6.0	15	50	1429	94.3	92.9	98.3	3	*	D-1
MCDONNELL DOUGLAS DC-08-71	328.0	258.0	4 CFM56-2-C1	22.0	6.0	15	50	1385	94.5	92.9	98.6	3	*	D-1
MCDONNELL DOUGLAS DC-08-72	335.0	240.0	4 CFM56-2-C1	22.0	6.0	12	50	1421	94.4	92.9	98.1	3	*	D-1
MCDONNELL DOUGLAS DC-08-72	350.0	250.0	4 CFM56-2-C1	22.0	6.0	12	50	1217	95.2	92.8	98.2	3	*	D-1
MCDONNELL DOUGLAS DC-08-73	355.0	258.0	4 CFM56-2-C1	22.0	6.0	12	50	1151	95.7	92.8	98.3	3	*	D-1
MCDONNELL DOUGLAS DC-08-73	355.0	275.0	4 CFM56-2-C1	22.0	6.0	12	50	1151	95.7	92.8	98.5	3	*	D-1
MCDONNELL DOUGLAS DC-08F-54 w/BAC GN	313.7	240.0	4 JT3D-3B			15	35	1125	105.3	101.5	106.3	2	6,**	SW
MCDONNELL DOUGLAS DC-08F-55 w/BAC GN	313.7	245.0	4 JT3D-3B			15	35	1125	105.3	101.5	106.8	2	6,**	SW
MCDONNELL DOUGLAS DC-09-10	90.7	81.7	2 JT8D-7	14.0	1.1	10	50		91.4	100.8	103.1	2	3	D-2
MCDONNELL DOUGLAS DC-09-10	90.7	81.7	2 JT8D-7/-7A	14.0	1.1	10	50	2271	91.4	101.4	100.4	2	1	D-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-09-30	98.0	93.4	2 JT8D-15	15.5	1.0	0	50	2586	91.2	101.1	98.4	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	103.0	98.1	2 JT8D-17	16.0	1.0	0	50	2521	92.7	103.5	101.1	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	103.0	99.0	2 JT8D-9	14.5	1.0	0	50	1800	94.3	99.0	99.0	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	108.0	98.1	2 JT8D-17	16.0	1.0	0	50	2285	94.3	103.7	101.1	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	108.0	99.0	2 JT8D-7A	14.0	1.1	0	50	1560	95.1	97.3	97.3	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	108.0	99.0	2 JT8D-9	14.5	1.0	0	50		96.6	100.4	103.8	2	3	D-2
MCDONNELL DOUGLAS DC-09-30	110.0	101.0	2 JT8D-7	14.0	1.1	0	50	1482	95.9	97.1	97.3	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	110.0	101.0	2 JT8D-9	14.5	1.0	0	50		97.3	100.3	104.2	2	3	D-2
MCDONNELL DOUGLAS DC-09-30	114.0	102.0	2 JT8D-15	15.5	1.0	0	50	1917	95.8	100.5	99.0	2	1	D-1
MCDONNELL DOUGLAS DC-09-30	114.0	102.0	2 JT8D-9	14.5	1.0	0	50		97.1	99.0	99.4	2	1	D-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/1000)	LW (LBS/1000)	ENGINE NUMBER / MODEL CODE	ENGINE THRUST (LBS/1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-9-34	110.0	101.0	2 JT8D-9	14.5	1.0	0	50		96.1	98.8	99.1	2	1	D-1
MCDONNELL DOUGLAS DC-9-34	121.0	110.0	2 JT8D-15	15.5	1.0	0	50	1733	97.8	102.1	101.4	2	1	D-1
MCDONNELL DOUGLAS DC-9-34	121.0	110.0	2 JT8D-17	16.0	1.0	0	50	1856	98.0	103.0	101.9	2	1	D-1
MCDONNELL DOUGLAS DC-9-40	114.0	102.0	2 JT8D-11	15.0	1.0	0	50	1577	96.8	99.5	99.4	2	1	D-1
MCDONNELL DOUGLAS DC-9-40	114.0	102.0	2 JT8D-15	15.5	1.0	0	50	1917	95.8	100.5	99.4	2	1	D-1
MCDONNELL DOUGLAS DC-9-50	115.0	110.0	2 JT8D-15	15.5	1.0	0	50		96.1	102.4	101.9	2	1	D-1
MCDONNELL DOUGLAS DC-9-50	115.0	104.0	2 JT8D-17	16.0	1.0	0	50		96.4	103.4	101.6	2	1	D-1
MCDONNELL DOUGLAS DC-9-50	121.0	110.0	2 JT8D-15	15.5	1.0	0	50	1752	97.8	102.2	101.9	2	1	D-1
MCDONNELL DOUGLAS DC-9-50	121.0	110.0	2 JT8D-17	16.0	1.0	0	50	1877	98.1	103.2	101.9	2	1	D-1
MCDONNELL DOUGLAS DC-10-10	410.0	347.8	3 CF6-6D	39.3	5.7	14	50		97.4	97.0	104.9	3	*	D-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER ——— MODEL CODE	ENGINE THRUST (LBS/ 1000)	ENGINE BPR.	FLAPS TAKEOFF	FLAPS APPR.	ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-10-10	410.0	347.8	3 CF6-6K	39.3	5.9	14	50		96.8	96.3	103.3	3	*	D-2
MCDONNELL DOUGLAS DC-10-10	430.0	363.5	3 CF6-6D1	40.3	5.8	11	50		98.1	97.0	105.5	3	*	D-1
MCDONNELL DOUGLAS DC-10-10	430.0	363.5	3 CF6-6D1A	40.9	5.8	11	50		98.1	97.0	105.5	3	*	D-1
MCDONNELL DOUGLAS DC-10-10	430.0	347.8	3 CF6-6K2	40.9	5.9	11	50		97.4	96.5	103.3	3	*	D-2
MCDONNELL DOUGLAS DC-10-10	455.0	363.5	3 CF6-6D	39.3	5.7	0	50		101.8	96.0	105.5	3	*	D-1
MCDONNELL DOUGLAS DC-10-10	455.0	363.5	3 CF6-6D1	40.3	5.8	4	50		100.2	96.6	105.5	3	*	D-1
MCDONNELL DOUGLAS DC-10-10	455.0	363.5	3 CF6-6D1A	40.9	5.8	4	50		100.2	96.6	105.5	3	*	D-1
MCDONNELL DOUGLAS DC-10-10	455.0	363.5	3 CF6-6K	39.3	5.9	0	50		100.9	95.5	103.8	3	*	D-2
MCDONNELL DOUGLAS DC-10-10	455.0	363.5	3 CF6-6K2	40.9	5.9	4	50		99.3	96.1	103.8	3	*	D-2
MCDONNELL DOUGLAS DC-10-15	455.0	363.5	3 CF6-50C2-F	45.6	4.6	5	50		94.6	95.8	103.1	3		D-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-10-30	534.4	421.0	3 CF6-50C1	51.8	4.2	10	50		103.0	99.9	109.0	2	*	D-1
MCDONNELL DOUGLAS DC-10-30	555.0	411.0	3 CF6-50C/H	50.4	4.3	10	50		103.8	98.2	108.4	2	*	D-3
MCDONNELL DOUGLAS DC-10-30	555.0	403.0	3 CF6-50C2	51.8	4.3	5	50		96.8	97.8	105.0	3		D-3
MCDONNELL DOUGLAS DC-10-30	555.0	424.0	3 CF6-50C2	51.8	4.3	5	50		96.8	97.8	106.0	3	15	D-3
MCDONNELL DOUGLAS DC-10-30	555.0	403.0	3 CF6-50C2-R	50.4	4.4	10	50		97.6	97.6	105.7	3		D-1
MCDONNELL DOUGLAS DC-10-30	555.0	424.0	3 CF6-50C2B	53.2	4.3	5	50		96.1	98.4	106.0	3	15	D-3
MCDONNELL DOUGLAS DC-10-30	555.0	403.0	3 CF6-50C2B	53.2	4.3	5	50		96.1	98.4	105.0	3		D-3
MCDONNELL DOUGLAS DC-10-30	572.0	421.0	3 CF6-50C/H	50.4	4.3	10	50		104.4	98.1	108.4	2	*	D-1
MCDONNELL DOUGLAS DC-10-30	572.0	421.0	3 CF6-50C1	51.8	4.2	10	50		104.4	99.7	109.0	2	*	D-1
MCDONNELL DOUGLAS DC-10-30	572.0	421.0	3 CF6-50C2-R	50.4	4.4	10	50		98.6	97.5	106.5	3		D-1

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UNITED STATES CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS DC-10-30	572.0	424.0	3 CF6-50C2B	53.2	4.3	10	50		97.4	98.5	106.0	3	15	D-3
MCDONNELL DOUGLAS DC-10-30	590.0	411.0	3 CF6-50C2	51.8	4.3	15	50		99.0	97.9	105.3	3		D-3
MCDONNELL DOUGLAS DC-10-30	590.0	436.0	3 CF6-50C2	51.8	4.3	15	50		99.0	97.7	106.4	3	15	D-3
MCDONNELL DOUGLAS DC-10-30	590.0	411.0	3 CF6-50C2B	53.2	4.3	15	50		98.7	98.5	105.3	3		D-3
MCDONNELL DOUGLAS DC-10-40	530.0	403.0	3 JT9D-20D	44.5	5.0	10	50		100.8	95.2	105.7	3	*	D-1
MCDONNELL DOUGLAS DC-10-40	555.0	403.0	3 JT9D-59A	51.7	4.9	10	50		101.4	98.0	106.4	3	*	D-1
MCDONNELL DOUGLAS DC-10-40	572.0	403.0	3 JT9D-59A	51.7	4.9	10	50		102.2	97.9	106.4	3	*	D-1
MCDONNELL DOUGLAS MD-80	140.0	128.0	2 JT8D-209	19.3	1.8	0	40	1725	88.9	94.7	92.8	3	10	D-4
MCDONNELL DOUGLAS MD-80	140.0	128.0	2 JT8D-219	21.7	1.7	0	40	2182	86.7	97.3	92.8	3	10	D-4
MCDONNELL DOUGLAS MD-80	149.5	130.0	2 JT8D-209	19.3	1.8	0	40	1419	91.1	94.5	92.9	3	10	D-4

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. (FEET)	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS MD-80	142.0	130.0	2 JT8D-217	20.9	1.8	0	40	1922	88.2	96.1	92.9	3	10	D-4
MCDONNELL DOUGLAS MD-80	149.5	130.0	2 JT8D-217	20.9	1.8	0	40	1684	89.7	95.8	92.9	3	10	D-4
MCDONNELL DOUGLAS MD-80	149.5	130.0	2 JT8D-219	21.7	1.7	0	40	1895	88.6	97.1	92.9	3	10	D-4
MCDONNELL DOUGLAS MD-80	160.0	150.0	2 JT8D-217A	20.9	1.8	2	40	1539	92.0	95.9	93.7	3	* 10	D-4
MCDONNELL DOUGLAS MD-80	160.0	150.0	2 JT8D-217C	20.9	1.7	2	40	1599	91.5	96.3	93.7	3	10	D-4
MCDONNELL DOUGLAS MD-80	160.0	150.0	2 JT8D-219	21.7	1.7	2	40	1755	90.8	97.2	93.7	3	10	D-4
MCDONNELL DOUGLAS MD-87	125.0	120.0	2 JT8D-217C	20.9	1.7	0	40	2551	84.1	96.5	92.9	3	10	D-4
MCDONNELL DOUGLAS MD-87	140.0	128.0	2 JT8D-217A	20.9	1.8	0	40	1966	87.7	95.9	93.3	3	10	D-4
MCDONNELL DOUGLAS MD-87	149.5	130.0	2 JT8D-217A	20.9	1.8	1	40	1747	89.7	95.9	93.3	3	10	D-4
MCDONNELL DOUGLAS MD-87	149.5	130.0	2 JT8D-217C	20.9	1.7	1	40	1817	89.2	96.2	93.3	3	10	D-4

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AIRCRAFT MANUFACTURER AND TYPE	MTOW (LBS/ 1000)	LW (LBS/ 1000)	ENGINE NUMBER —— MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS TAKEOFF	FLAPS APPR.	NOISE LEVELS EPNDB ALT. FEET	NOISE LEVELS EPNDB TAKEOFF	NOISE LEVELS EPNDB SIDE LINE	NOISE LEVELS EPNDB APPR.	STAGE	NOTES	REFERENCE
MCDONNELL DOUGLAS MD-87	149.5	130.0	2 JT8D-219	21.7	1.7	1	40	1974	88.5	97.1	93.3	3	10	D-4
MCDONNELL DOUGLAS MD-87	140.0	130.0	2 JT8D-219	21.7	1.7	0	40	2193	86.5	97.1	93.3	3	10	D-4
MITSUBISHI MU-300	14.1	13.2	2 JT15D-4	2.5		10	30		86.3	88.0	85.8	3	*	CR
MITSUBISHI MU-300	15.5	13.2	2 JT15D-4D			0	30		81.2	88.4	85.8	3		SW
ROCKWELL INTERNAT. SABRELINER 60	20.2		2 JT12A-8	3.3			24		95.0	100.3	98.5	2	*	A-1
ROCKWELL INTERNAT. SABRELINER 65	24.0	21.8	2 TFE731-3R	3.7	2.8				84.0	93.0	90.6	3	*	CR
ROCKWELL INTERNAT. SABRELINER 75A	23.0		2 CF700-2D-2	4.3		15	25		90.7	91.3	100.2	2	*	A-1
ROCKWELL INTERNAT. SABRELINER 80	23.3	22.0	2 CF700-2D-2	4.3	2.0				90.7	91.3	100.2	2	*	CR

APPENDIX 1 REFERENCES

A-1	ADVISORY CIRCULAR 36-1B 12/5/77
AI	EASTERN AIRLINES
B-1	BOEING
BA	BRITISH AEROSPACE
CE	CENTRAL REGION
CR	CERTIFICATION REPORTS
D-1	MCDONNELL DOUGLAS 2/24/83
D-2	MCDONNELL DOUGLAS 9/5/85
D-3	MCDONNELL DOUGLAS 9/24/85
D-4	MCDONNELL DOUGLAS 6/6/88
EU	EUROPEAN REGION
GA-1	GATES LEARJET
L-1	LOCKHEED
NM	NORTHWEST MOUNTAIN REGION
SO	SOUTHERN REGION
SW	SOUTHWEST REGION

APPENDIX 1 NOTES

1	ENGINES EQUIPPED WITH P-36 ACOUSTICAL TREATMENT (MCDONNELL DOUGLAS AIRCRAFT)
2	QUIET NACELLES AND FAN CASE DOUBLE ACOUSTIC TREATMENT (BOEING AIRCRAFT)
3	FAN CASE DOUBLE ACOUSTIC TREATMENT (BOEING AIRCRAFT)
4	AT TOGW OF 445K OR LESS AND LANDING WEIGHTS OF 400K OR LESS, THE CENTER LANDING GEAR RETRACTED.
5	DIRECT LIFT CONTROL USED ON APPROACH
6	ENGINE INLET AND FAN DUCT TREATMENT INSTALLED PER APPROPRIATE STC
10	DC-9-80 MAXIMUM TAKEOFF POWER
12	EQUIPPED WITH STANDARD HUSH KIT
13	EQUIPPED WITH LEARAVIA ENGINE SUPPRESSOR NOZZLE (GATES LEARJET)
14	EQUIPPED WITH LEARAVIA WITH ECR 936 (GATES LEARJET)
15	REVISED FORWARD CENTER OF GRAVITY ON APPROACH
16	DATA ALSO APPLIES TO JT8D-7A AND JT8D-7B ENGINES
17	DATA ALSO APPLIES TO JT8D-9A
18	DATA ALSO APPLIES TO JT8D-15A
19	DATA ALSO APPLIES TO JT8D-17A
20	DATA ALSO APPLIES TO JT8D-17AR
21	DATA ALSO APPLIES TO JT3D-3B DERATED TO JT3D-1 THRUST.
*	FULL POWER TAKEOFF
**	650 METER SIDELINE

EQUATIONS FOR THE CALCULATION OF NOISE CERTIFICATION LIMITS
AT TAKEOFF, SIDELINE, AND APPROACH
STAGE 2

	Takeoff Limits EPNdB	Sideline Limits EPNdB	Approach Limits EPNdB
Up to and including 75,000 lbs	93	102	102
Over 75,000 lbs to 600,000 lbs	93+5[(logW/75,000)/log2]	102+2[(logW/75,000)/log2]	102+2[(logW/75,000)/log2]
Over 600,000 lbs	108	108	108

EQUATIONS FOR THE CALCULATION OF NOISE CERTIFICATION LIMITS AT TAKEOFF

STAGE 3
TAKEOFF
EPNdB

4 ENGINE OR MORE
EPNdB

Up to and including 44,673 lbs	89
Over 44,673 lbs to 850,000 lbs	89+4[(logW/44,673)/log2]
Over 850,000 lbs	106

3 ENGINE

Up to and including 63,177 lbs	89
Over 63,177 to 850,000 lbs	89+4[(logW/63,177)/log2]
Over 850,000 lbs	104

2 ENGINE OR LESS

Up to and including 106,250 lbs	89
Over 106,250 to 850,000 lbs	89+4[(logW/106,250)/log2]
Over 850,000 lbs	101

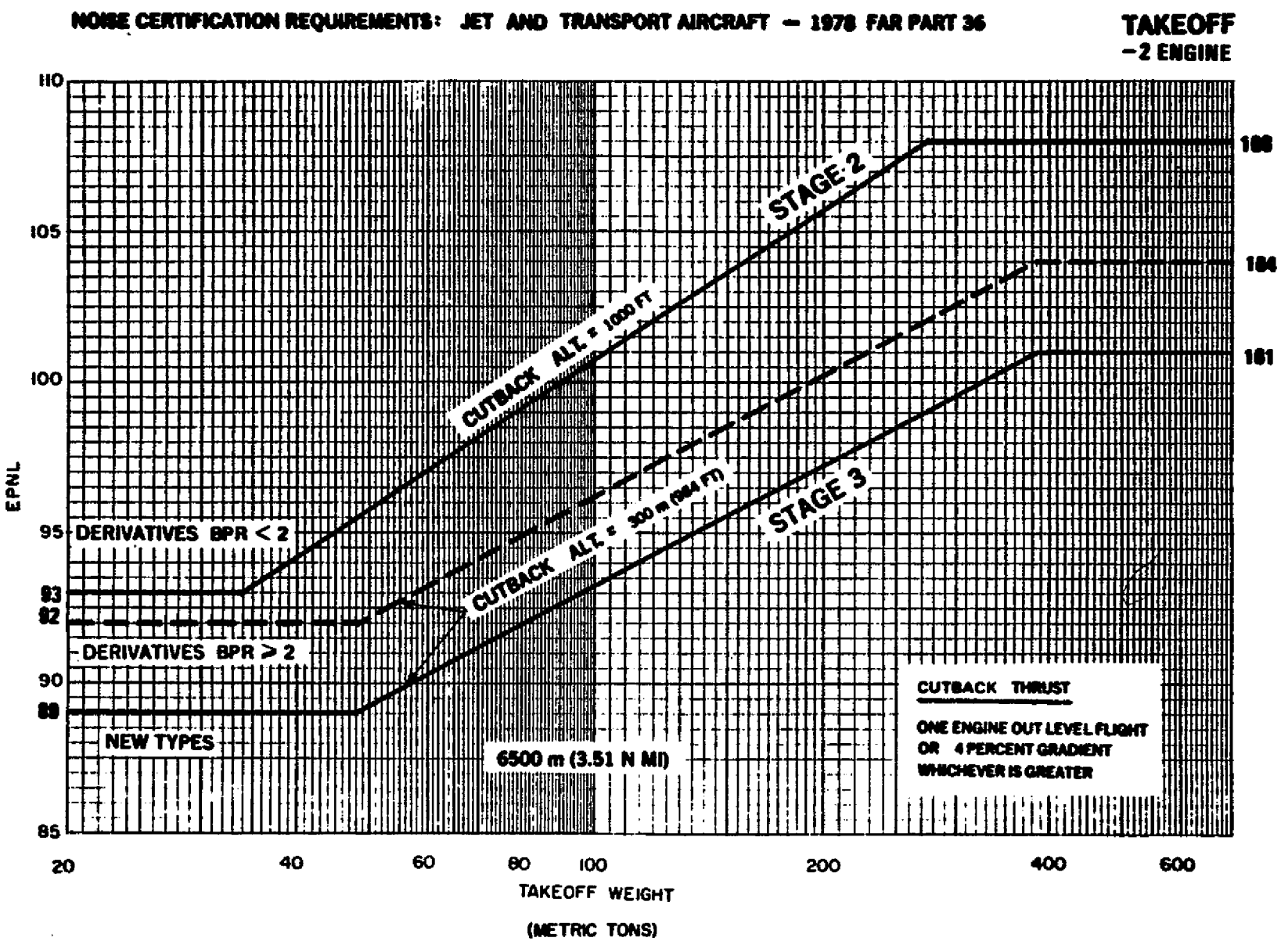
EQUATIONS FOR THE CALCULATION OF NOISE CERTIFICATION LIMITS AT SIDELINE AND APPROACH

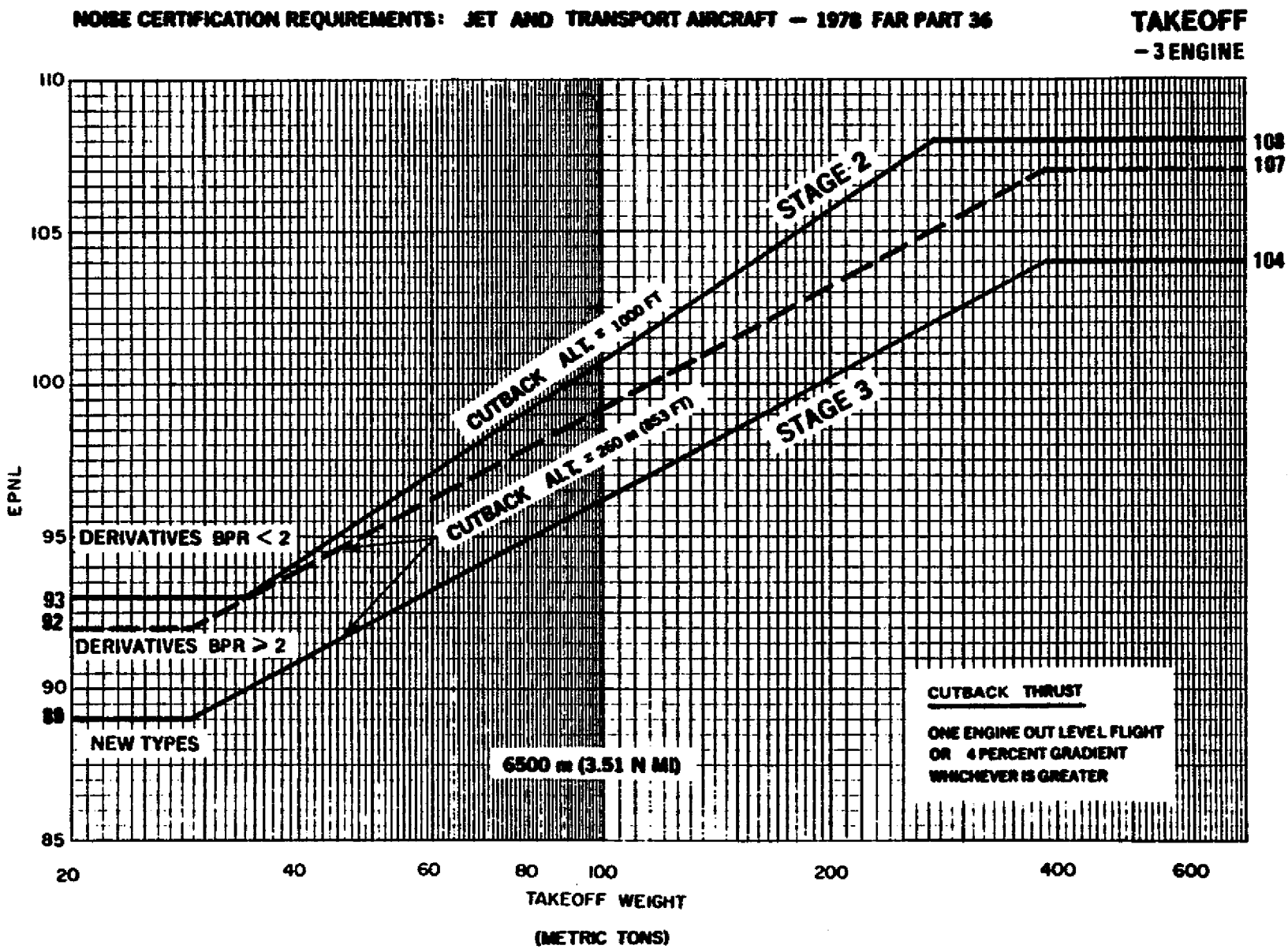
STAGE 3
SIDELINE
EPNdB

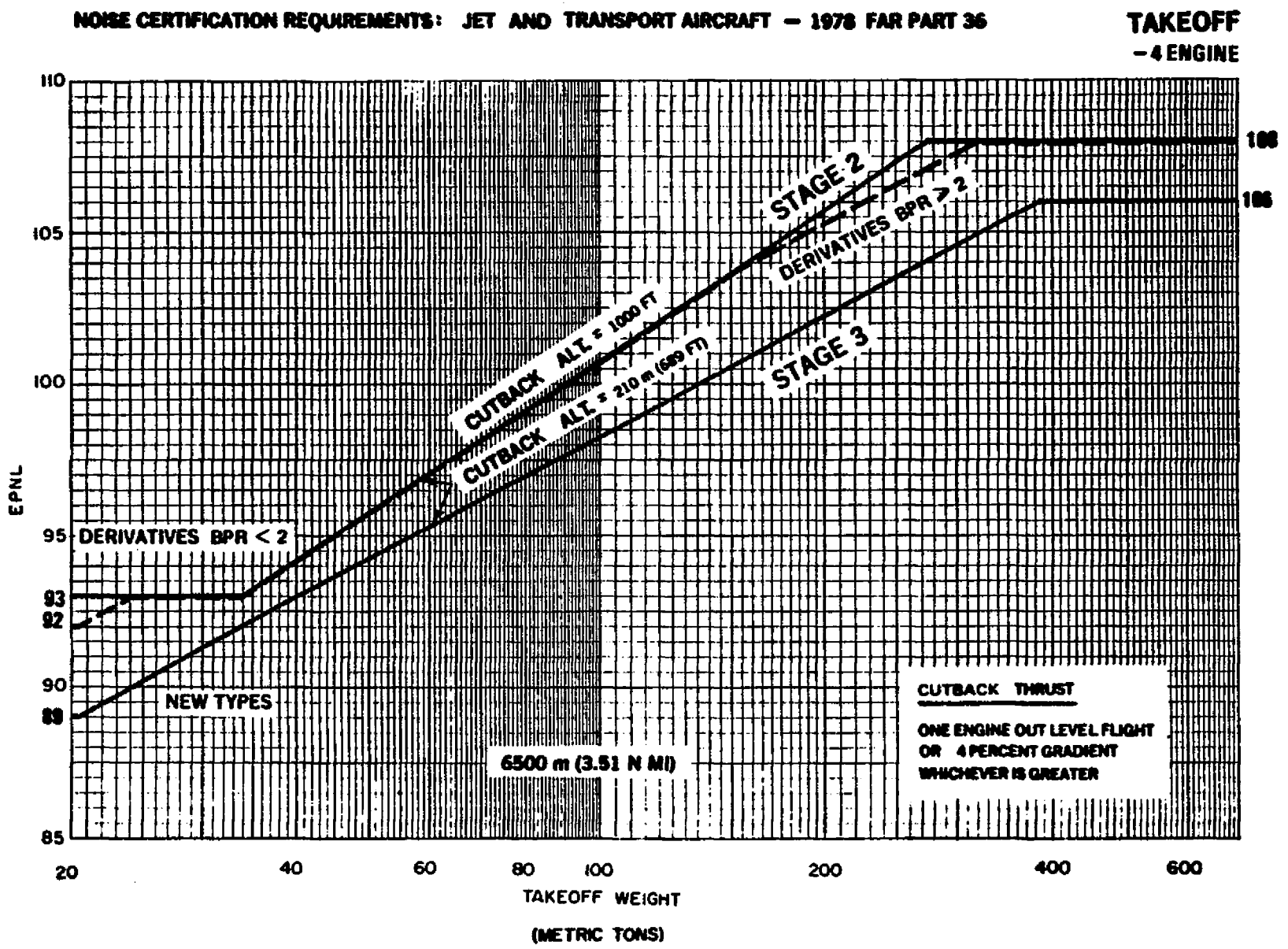
Up to and including 77,200 lbs	94
Over 77,200 to 882,000 lbs	94+2.56[(logW/77,200)/log2]
Over 882,000 lbs	103

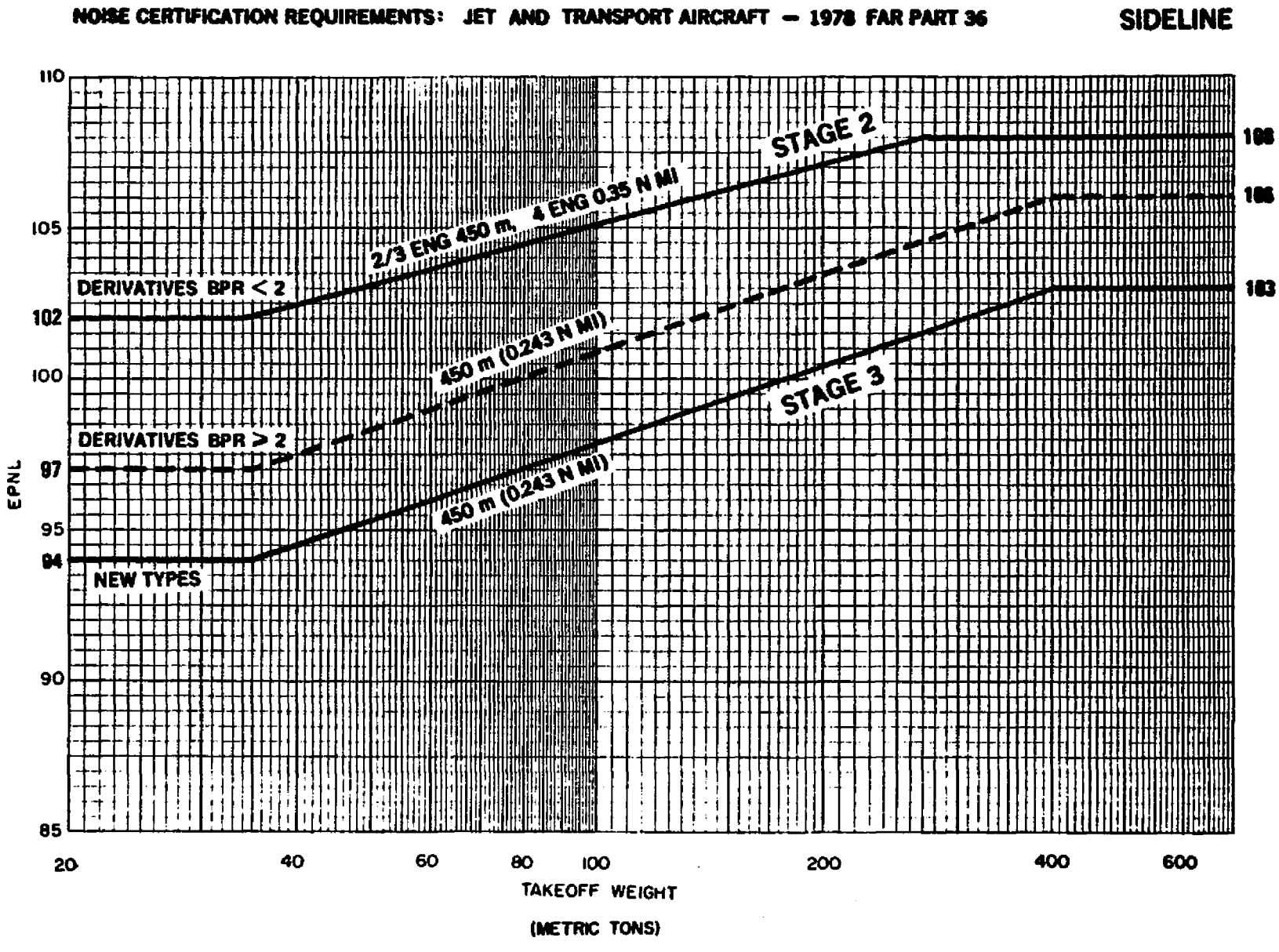
STAGE 3
APPROACH
EPNdB

Up to and including 77,200 lbs	98
Over 77,200 to 617,300 lbs	98+2.33[(logW/77,200)/log2]
Over 617,300 lbs	105

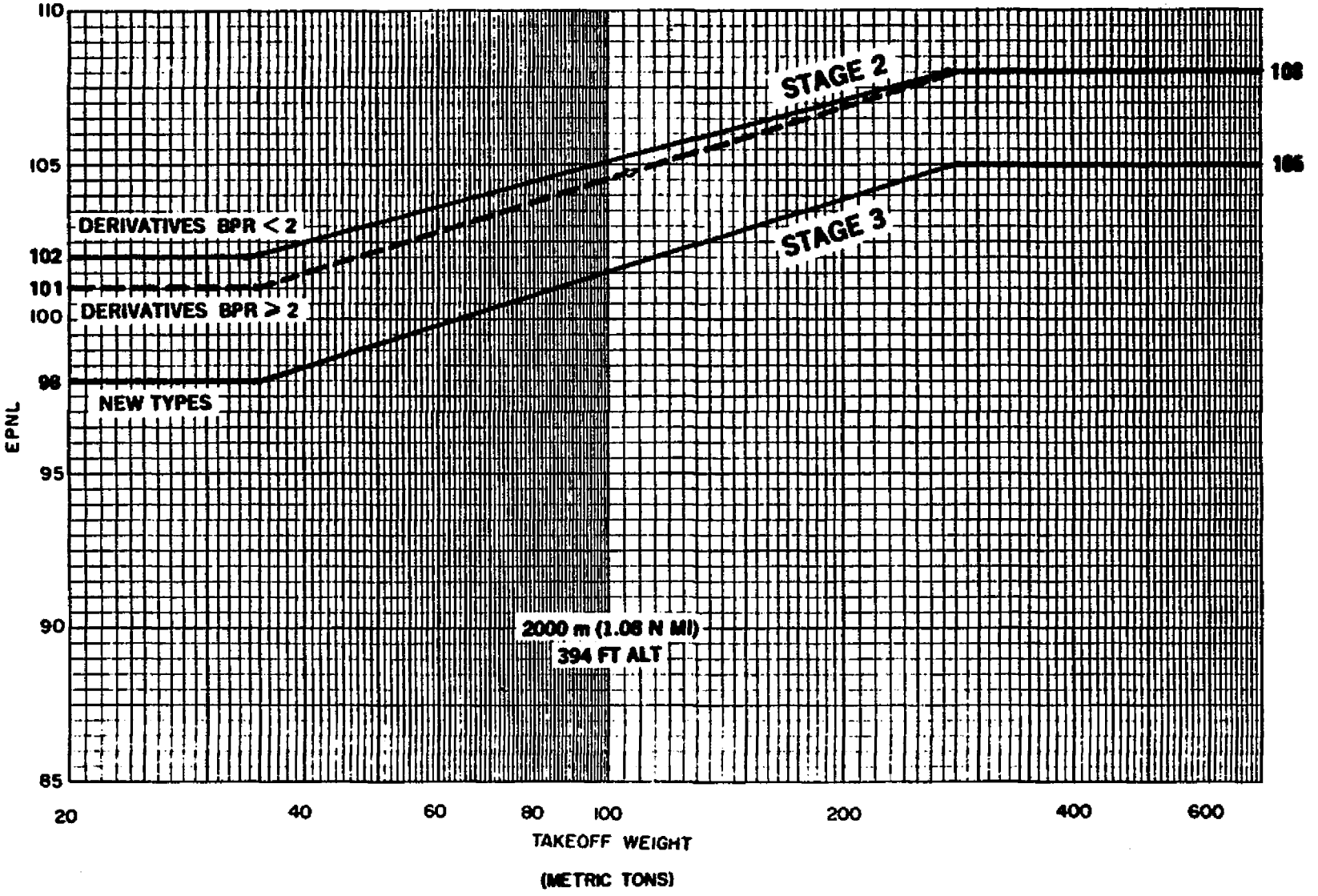

NOISE CERTIFICATION REQUIREMENTS: JET AND TRANSPORT AIRCRAFT — 1978 FAR PART 36
TAKEOFF
−2 ENGINE
EPNL
110
105
100
95
90
85
DERIVATIVES BPR < 2
DERIVATIVES BPR > 2
NEW TYPES
93
92
89
STAGE 2
STAGE 3
CUTBACK ALT. = 1000 FT
CUTBACK ALT. = 300 m (984 FT)
6500 m (3.51 N MI)
CUTBACK THRUST
ONE ENGINE OUT LEVEL FLIGHT
OR 4 PERCENT GRADIENT
WHICHEVER IS GREATER
108
104
101
20
40
60
80
100
200
400
600
TAKEOFF WEIGHT
(METRIC TONS)


NOISE CERTIFICATION REQUIREMENTS: JET AND TRANSPORT AIRCRAFT — 1978 FAR PART 36
TAKEOFF
— 3 ENGINE
EPNL
110
105
100
95
93
92
90
89
85
108
107
104
STAGE 2
STAGE 3
CUTBACK ALT = 1000 FT
CUTBACK ALT = 250 m (853 FT)
DERIVATIVES BPR < 2
DERIVATIVES BPR > 2
NEW TYPES
6500 m (3.51 N MI)
CUTBACK THRUST
ONE ENGINE OUT LEVEL FLIGHT
OR 4 PERCENT GRADIENT
WHICHEVER IS GREATER
20
40
60
80
100
200
400
600
TAKEOFF WEIGHT
(METRIC TONS)


NOISE CERTIFICATION REQUIREMENTS: JET AND TRANSPORT AIRCRAFT — 1978 FAR PART 36
TAKEOFF
— 4 ENGINE
EPNL
110
105
100
95
93
92
90
89
85
20
40
60
80
100
200
400
600
TAKEOFF WEIGHT
(METRIC TONS)
STAGE 2
DERIVATIVES BPR > 2
STAGE 3
CUTBACK ALT ≥ 1000 FT
CUTBACK ALT ≥ 210 m (689 FT)
DERIVATIVES BPR < 2
NEW TYPES
6500 m (3.51 N MI)
CUTBACK THRUST
ONE ENGINE OUT LEVEL FLIGHT
OR 4 PERCENT GRADIENT
WHICHEVER IS GREATER


NOISE CERTIFICATION REQUIREMENTS: JET AND TRANSPORT AIRCRAFT — 1978 FAR PART 36
SIDELINE
EPNL
110
105
102
100
97
95
94
90
85
20
40
60
80
100
200
400
600
TAKEOFF WEIGHT
(METRIC TONS)
STAGE 2
2/3 ENG 450 m, 4 ENG 0.35 N MI
DERIVATIVES BPR < 2
450 m (0.243 N MI)
DERIVATIVES BPR > 2
STAGE 3
450 m (0.243 N MI)
NEW TYPES
108
106
103

NOISE CERTIFICATION REQUIREMENTS: JET AND TRANSPORT AIRCRAFT — 1978 FAR PART 36 APPROACH



APPENDIX 2
AIRCRAFT NOISE DATA FOR
FOREIGN CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW LW (LBS/ 1000)	ENGINE NUMBER MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS T/O	FLAPS APPR.	NOISE LEVELS - EPNdB SIDELINE 450 METER	SIDELINE 650 METER	ALT. FEET	TAKEOFF	APPR. 2000 METER	CHAPTER	NOTES	REFERENCE
AEROSPATIALE CARAVELLE 10-B1R	114.5 109.0	2 JT8D-7	14.0	1.1	5	35		98.2		92.3	105.1	2		I-3
AEROSPATIALE CARAVELLE 10-B1R	119.0 109.0	2 JT8D-7	14.0	1.1	5	35		98.1		93.7	105.1	2		I-3
AEROSPATIALE CARAVELLE 10-B3	119.0 109.0	2 JT8D-7	14.0	1.1	5	45		97.7		94.4	106.2	2		I-3
AEROSPATIALE CARAVELLE 10-B3	125.6 109.0	2 JT8D-9	14.2	1.1	5	45		98.2		95.7	106.2	2		I-3
AEROSPATIALE CARAVELLE 11R	114.5 109.0	2 JT8D-7	14.0	1.1	5	35		97.9		92.3	105.1	2		I-3
AEROSPATIALE CARAVELLE 12	119.0 109.0	2 JT8D-9	14.2	1.1	5	45		98.4		94.0	105.9	2		I-3
AEROSPATIALE CARAVELLE 12	123.4 109.0	2 JT8D-9	14.2	1.1	5	45		98.3		95.3	105.9	2		I-3
AEROSPATIALE CARAVELLE 12	127.0 109.0	2 JT8D-9	14.2	1.1	5	45		98.2		96.6	105.9	2		I-3
AIRBUS A300B1	302.1 269.0	2 CF6-50A	48.4	4.6		25		90.7		87.9	101.1	2		I-3
AIRBUS A300B2 K3C	313.1 286.7	2 CF6-50C	50.4	4.6		25		92.6		87.0	101.7	2		I-3
AIRBUS A300B2-1A	302.1 281.1	2 CF6-50A	48.3	4.6		25		90.7		87.9	101.1	2		I-3
AIRBUS A300B2-1C	302.1 281.1	2 CF6-50C	50.4	4.6		25		91.0		87.1	101.1	2		I-3
AIRBUS A300B2-1C	313.1 286.7	2 CF6-50C	50.4	4.6		25		92.6		88.2	101.3	2		I-3
AIRBUS A300B2-202	313.0 287.0	2 CF6-50C1	51.7	4.6		25		93.5		89.3	102.0	3		I-1,I-3

APPENDIX 2
AIRCRAFT NOISE DATA FOR
FOREIGN CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW LW (LBS/ 1000)	ENGINE NUMBER MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS T/O	FLAPS APPR.	NOISE LEVELS - EPNdB SIDELINE 450 METER	SIDELINE 650 METER	ALT. FEET	TAKEOFF	APPR. 2000 METER	CHAPTER	NOTES	REFERENCE
AIRBUS A300B2-320	330.8 293.3	2 JT9D-59A	50.4	4.9	8	15	98.5			90.3	100.5	3		I-3
AIRBUS A300B4-102	347.3 294.8	2 CF6-50C1	51.7	4.6		25		93.3		90.1	101.9	2		I-3
AIRBUS A300B4-2C	330.8 293.3	2 CF6-50C	50.4	4.6		25		92.4		89.0	101.9	2		I-3
AIRBUS A300B4-2C	337.4 293.3	2 CF6-50C	50.4	4.6		25		92.4		89.6	101.9	2		I-3
AIRBUS A300B4-2C	347.3 293.3	2 CF6-50C	50.4	4.6		25		92.4		90.5	101.9	2		I-3
BRITISH AEROSPACE 1-11 475	92.0 84.0	2 SPEY 512	12.6	0.7	6	45		102.2	2230	93.0	100.3	2	1	I-1,I-3
BRITISH AEROSPACE 1-11 475S	92.0 84.0	2 SPEY 512/-14DW	12.5	0.7	6	45	109.0	106.0	2250	96.0	103.5	2		I-1
BRITISH AEROSPACE 1-11 500	99.7 87.0	2 SPEY 512/-14DW	12.5	0.7	6	45		101.6	1870	95.3	100.0	2	1	I-1,I-3
BRITISH AEROSPACE 1-11 500S	104.5 87.0	2 SPEY 512/-14DW	12.5	0.7	6	45		101.0	1640	97.0	100.0	2	1	I-1,I-3
BRITISH AEROSPACE 1-11 510	92.5 86.0	2 SPEY 512/-14E	12.0	0.7	8	45		101.7	2130	93.3	101.7	2	1	I-1,I-3
BRITISH AEROSPACE 146-100-20	82.3 73.3	4 ALF502R-3	6.7	5.9	18	33	86.9		1780	83.1	95.2	3		I-4
BRITISH AEROSPACE 146-200-01	89.5 79.5	4 ALF502-5	7.0	5.7	18	33	87.3		1280	84.9	95.6	3		I-4
BRITISH AEROSPACE CONCORDE	400.0 245.0	4 OLYMPUS 610	39.5					112.0		119.5	117.0			I-2
BRITISH AEROSPACE HS 125-1	20.1 18.5	2 VIPER 520	3.2			45		97.5	2350	91.0	104.0	2		I-3

APPENDIX 2 REFERENCES

I-1 FRANCE ICAO CAN 6 DATA 3/78
I-2 UNITED KINGDOM ICAO CAN 6 BIP 21 3/4/79
I-3 ICAO CAN WG #D# UPDATE 4/81
I-4 BRITISH AEROSPACE
I-5 USSR

APPENDIX 2 NOTES

1 EQUIPPED WITH STANDARD HUSH KIT
* FULL POWER TAKEOFF

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
AEROSPATIALE SN601 CORVETTE	JT15D-4	13.9	80.4	89.5	85.4	*
AEROSPATIALE SN601 CORVETTE	JT15D-4	14.6	74.0	90.0	81.0	
AIRBUS A300B2-203	CF6-50C2	313.1	91.1	103.1	97.9	
AIRBUS A300B4-103	CF6-50C2	347.2	93.6	103.0	97.7	
AIRBUS A300B4-203	CF6-50C2	363.7	96.0	102.4	96.9	
AIRBUS A310-221	JT9D-7R4D1	305.6	90.5	100.6	94.8	
BEECH MU-300-10	JT15D-5	15.8	88.6	91.4	93.7	*
BOEING B-737-300	CFM56-3-B-1	124.5	84.4	99.9	90.4	
BOEING B-737-300	CFM56-3-B-1	139.5	87.5	99.9	89.9	
BOEING B-737-300	CFM56-3B-2	124.5	82.8	99.9	92.2	
BOEING B-737-300	CFM56-3B-2	139.5	85.7	99.9	91.9	
BOEING B-747-200	CF6-50E	775.0	100.7	105.9	101.1	
BOEING B-747-200	CF6-50E	820.0	102.5	107.0	100.9	
BOEING B-747-200	CF6-50E2	820.0	102.1	106.5	101.7	
BOEING B-747-200	CF6-50E2	833.0	102.6	106.5	101.7	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
BOEING B-747-200	JT9D-70A	820.0	101.1	106.0	98.5	
BOEING B-747-200	JT9D-7Q	775.0	100.2	106.2	103.8	
BOEING B-747-200	JT9D-7Q	833.0	103.2	104.4	103.5	
BOEING B-747-200	JT9D-7Q	833.0	103.2	106.6	103.5	
BOEING B-747-200	RB.211-524C2	833.0	106.5	107.0	99.7	*
BOEING B-747-200	RB.211-524D4	833.0	103.9	104.9	99.7	
BOEING B-747-300	CF6-50E2	800.0	101.6	106.5	101.8	
BOEING B-747-300	CF6-80C2-B1	833.0	99.0	104.3	98.2	
BOEING B-747-300	JT9D-7R4G2	833.0	102.4	106.6	101.3	
BOEING B-747-300	JT9D-7R4G2	785.0	100.1	106.6	101.5	
BOEING B-747-300	JT9D-7R4G2	820.0	101.8	106.6	101.3	
BOEING B-747-SP	JT9D-7A	660.0	99.6	102.5	101.3	
BOEING B-747-SP	JT9D-7A	701.0	102.0	102.9	101.1	
BOEING B-747-SP	JT9D-7F	660.0	98.7	103.8	102.3	
BOEING B-747-SP	JT9D-7J	696.0	99.8	103.8	103.5	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
BOEING B-747-SP	JT9D-7J	702.0	100.1	103.2	103.3	
BOEING B-747-SP	JT9D-7J	702.0	100.1	103.8	103.3	
BOEING B-747-SP	RB.211-524B2	696.0	99.5	103.2	99.8	
BOEING B-747-SP	RB.211-524D4	702.0	99.2	107.0	99.8	—
BOEING B-747-SR	CF6-45A2	571.0	98.4	105.4	93.2	
BOEING B-747-SR	JT9D-7A	570.0	100.2	106.9	101.8	*
BOEING B-747-SR	JT9D-7A	610.0	101.8	106.9	101.6	*
BOEING B-757-200	PW 2037PIP	220.0	86.2	97.7	94.0	
BOEING B-757-200	PW 2037PIP	250.0	90.6	97.7	93.7	
BOEING B-757-200	RB.211-535-E4	220.0	82.2	95.0	93.3	
BOEING B-757-200	RB.211-535-E4	250.0	86.1	95.0	93.0	
BOEING B-757-200	RB.211-535C	240.0	88.1	100.3	93.8	
BOEING B-757-200PF	PW 2040	250.0	88.9	98.1	94.2	
BOEING B-767-200	CF6-80A	279.9	84.9	101.4	95.5	
BOEING B-767-200	CF6-80A	360.0	92.8	101.7	94.8	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
BOEING B-767-200	CF6-80A2	279.9	84.2	101.4	97.2	
BOEING B-767-200	CF6-80A2	360.0	91.7	101.7	96.5	
BOEING B-767-200	CF6-80C2-B2	300.0	85.2	95.7	94.1	
BOEING B-767-200	CF6-80C2-B2	351.0	89.5	96.4	93.7	
BOEING B-767-200	CF6-80C2-B4	351.0	87.7	95.7	95.3	
BOEING B-767-200	CF6-80C2-B4	387.0	90.6	96.4	95.0	
BOEING B-767-200	JT9D-7R4D(A)	282.0	87.7	101.8	95.7	
BOEING B-767-200	JT9D-7R4D(A)	351.0	95.1	102.7	95.2	
BOEING B-767-200	JT9D-7R4D(B)	282.0	88.4	101.9	95.9	
BOEING B-767-200	JT9D-7R4D(B)	360.0	96.2	102.6	95.3	
BOEING B-767-200	JT9D-7R4E	282.0	87.5	101.9	96.8	
BOEING B-767-200	JT9D-7R4E	360.0	95.4	102.6	96.2	
BOEING B-767-300	CF6-80A	300.0	87.5	101.7	95.2	
BOEING B-767-300	CF6-80A	351.0	92.0	101.7	94.9	
BOEING B-767-300	CF6-80A2	300.0	86.7	101.7	96.9	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
BOEING B-767-300	CF6-80A2	351.0	91.2	101.7	96.5	
BOEING B-767-300	CF6-80C2-B4	380.0	90.2	96.5	95.3	
BOEING B-767-300	CF6-80C2-B4	407.0	92.1	98.4	95.2	
BOEING B-767-300	CF6-80C2-B6	380.0	89.2	96.5	96.4	
BOEING B-767-300	CF6-80C2-B6	407.0	91.1	98.4	96.3	
BOEING B-767-300	JT9D-7R4D(B)	300.0	91.0	102.3	95.7	
BOEING B-767-300	JT9D-7R4D(B)	351.0	95.7	103.0	95.4	
BOEING B-767-300	JT9D-7R4E	300.0	90.0	102.3	96.5	
BOEING B-767-300	JT9D-7R4E	351.0	95.0	103.0	96.2	
BRITISH AEROSPACE 125-800A	TFE731-5R-1H	27.4	80.9	96.6	89.6	
BRITISH AEROSPACE 146-100A	ALF502R-3	76.0	80.7	95.1	87.2	
BRITISH AEROSPACE 146-200A	ALF502R-5	89.5	84.9	95.6	87.3	
BRITISH AEROSPACE BAC 125-800	TFE731-5R-1H	27.4	80.9	96.5	87.2	
BRITISH AEROSPACE HS 125-1A	TFE 731-3	21.7	84.2	96.0	90.0	*
BRITISH AEROSPACE HS 125-1A	TFE 731-3R	21.2	83.4	96.0	90.1	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
BRITISH AEROSPACE HS 125-3A	TFE 731-3	21.7	84.2	96.3	90.0	
BRITISH AEROSPACE HS 125-3A/RA	TFE 731-3	23.6	85.5	95.7	89.8	
BRITISH AEROSPACE HS 125-400A	TFE 731-3	23.6	85.5	95.7	89.8	
BRITISH AEROSPACE HS 125-600A	TFE 731-3	25.5	88.0	96.3	89.2	
BRITISH AEROSPACE HS 125-700A	TFE 731-3	25.5	88.0	96.3	89.2	
CANADAIR CL-600	ALF-502	36.0	81.6	91.2	89.3	*
CANADAIR CL-601 CHALLENGER	CF34-1A	42.1	79.4	89.4	84.9	*
CESSNA 500 CITATION I	JT15D-1	10.3	79.0	87.7	86.1	*
CESSNA 500/501 CITATION I	JT15D-1/-1A	11.8	76.4	87.7	86.1	*
CESSNA 550 CITATION II	JT15D-4	13.3	80.1	90.5	86.7	*
CESSNA 551 CITATION II	JT15D-4	12.5	80.1	90.5	86.7	*
CESSNA 650 CITATION III	TFE731-3B-100S	21.0	84.9	92.4	92.5	
CESSNA 650 CITATION III	TFE731-3B-100S	22.0	84.6	93.8	92.9	
DASSAULT BREGUET FALCON 10	TFE 731-2	18.3	82.9	95.3	86.4	
DASSAULT BREGUET FALCON 200 MYSTERE	ATF3-6-4C	32.0	83.9	93.9	89.0	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
DASSAULT BREGUET FALCON 50	TFE 731-2	38.8	84.3	97.4	91.6	
DASSAULT BREGUET FALCON 900	TFE-731-5A	45.5	81.9	91.7	89.2	
GATES LEARJET 35/36	TFE 731-2-2B	17.0	84.0	92.2	86.9	*
GATES LEARJET 35/36	TFE731-2-2B	18.0	84.5	92.2	87.9	*
GATES LEARJET 35A	TFE 731-2-2B	18.0	83.6	91.3	87.4	*
GATES LEARJET 35A/36A	TFE 731-2-2B	18.0	78.7	91.3	87.4	
GATES LEARJET 35A/36A	TFE 731-2-2B	18.3	79.2	91.4	86.7	
GATES LEARJET 36A	TFE731-2-2B	18.3	83.9	91.4	87.8	*
GATES LEARJET 55	TFE731-3A-2B	19.5	84.2	90.6	90.9	*
GATES LEARJET 55	TFE731-3A-2B	21.0	85.5	90.6	90.7	*
GULFSTREAM AMER. G-IV GULFSTREAM	TAY 610-8	71.7	79.0	91.0	86.5	
ISRAEL AIRCRAFT 1124 WESTWIND	TFE731-3-1G	22.9	81.2	88.4	80.3	
ISRAEL AIRCRAFT 1125	TFE731-3A-200G	23.5	84.1	89.8	89.7	
LOCKHEED L-1011	RB.211-22B	430.0	95.9	102.8	95.1	5 *
LOCKHEED L-1011-1	RB.211-22B	430.0	96.0	102.8	95.0	5 *

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
LOCKHEED L-1011-100	RB.211-22B	466.0	98.5	102.8	94.9	5 *
LOCKHEED L-1011-200	RB.211-524B	466.0	98.1	101.4	97.9	5 *
LOCKHEED L-1011-500	RB.211-524B	496.0	98.4	101.5	97.8	5 *
LOCKHEED L-1011-500	RB.211-524B3	496.0	97.4	100.3	96.7	5 *
LOCKHEED L-1011-500	RB.211-524B3	504.0	98.0	100.2	96.9	5 *
LOCKHEED L-1011-500	RB211-524B4	510.0	99.3	102.0	96.4	*
MCDONNELL DOUGLAS DC-08-71	CFM56-2-C1	325.0	94.3	98.3	92.9	*
MCDONNELL DOUGLAS DC-08-71	CFM56-2-C1	328.0	94.5	98.6	92.9	*
MCDONNELL DOUGLAS DC-08-72	CFM56-2-C1	335.0	94.4	98.1	92.9	*
MCDONNELL DOUGLAS DC-08-72	CFM56-2-C1	350.0	95.2	98.2	92.8	*
MCDONNELL DOUGLAS DC-08-73	CFM56-2-C1	355.0	95.7	98.3	92.8	*
MCDONNELL DOUGLAS DC-08-73	CFM56-2-C1	355.0	95.7	98.5	92.8	*
MCDONNELL DOUGLAS DC-10-10	CF6-6D	410.0	97.4	104.9	97.0	*
MCDONNELL DOUGLAS DC-10-10	CF6-6D	455.0	101.8	105.5	96.0	*
MCDONNELL DOUGLAS DC-10-10	CF6-6D1	430.0	98.1	105.5	97.0	*

APPENDIX 2
AIRCRAFT NOISE DATA FOR
FOREIGN CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW LW (LBS/ 1000)	ENGINE NUMBER MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS T/O	FLAPS APPR.	NOISE LEVELS - EPNdB SIDELINE 450 METER	SIDELINE 650 METER	ALT. FEET	TAKEOFF	APPR. 2000 METER	CHAPTER	NOTES	REFERENCE
BRITISH AEROSPACE HS 125-1B	21.1 18.9	2 VIPER 521	3.2			45		98.5	2350	91.5	105.0	2		1-3
BRITISH AEROSPACE HS 125-1B/522	21.1 19.6	2 VIPER 522	3.2			45		100.0	2750	90.0	104.5	2		1-3
BRITISH AEROSPACE HS 125-1B/R522/S522	22.2 19.6	2 VIPER 522	3.2			45		100.0	2550	90.5	104.5	2		1-3
BRITISH AEROSPACE HS 125-3B	21.6 20.0	2 VIPER 522	3.2			45		100.0	2650	90.5	104.5	2		1-3
BRITISH AEROSPACE HS 125-3B/RA	22.7 20.0	2 VIPER 522	3.2			45		100.0	2450	91.5	104.5	2		1-3
BRITISH AEROSPACE HS 125-400B	23.4 20.1	2 VIPER 522	3.2			45		103.0	2350	95.7	106.0	2		1-4
BRITISH AEROSPACE HS 125-403B	23.5 20.0	2 VIPER 522	3.2			45		100.0	2300	92.5	104.5	2		1-3
BRITISH AEROSPACE HS 125-600	25.6 22.1	2 VIPER 601	3.4			45	104.0	101.5		93.5	102.5	2		1-1
BRITISH AEROSPACE HS 125-600B	25.6 22.1	2 VIPER 601	3.5			45	99.0	97.0	2250	88.5	102.5	2		1-3
BRITISH AEROSPACE HS 125-600F	25.6 22.1	2 TFE 731-3	3.7	2.6		45	89.0	87.5	2150	84.5	96.0	3		1-3
BRITISH AEROSPACE HS 125-700B	24.3 22.1	2 TFE 731-3	3.7	2.6		45	89.0	87.5	2100	83.5	96.0	3		1-1
BRITISH AEROSPACE HS 125-700B	25.6 22.1	2 TFE 731-3	3.7	2.6		45	89.0	87.5	2150	84.5	96.0	3		1-1
BRITISH AEROSPACE SUPER VC10	334.9 237.0	4 CONWAY RC 043	22.5	0.3	15	45		111.0		109.5	111.5	2		1-3
DASSAULT BREGUET FALCON 20	28.7 27.3	2 CF700-2D-2	4.3	2.1	10	40	92.0	90.0	2600	90.0	103.0	2	*	1-1

APPENDIX 2
AIRCRAFT NOISE DATA FOR
FOREIGN CERTIFICATED TURBOJET POWERED AIRCRAFT

AIRCRAFT MANUFACTURER AND TYPE	MTOW LW (LBS/ 1000)	ENGINE NUMBER MODEL CODE	THRUST (LBS/ 1000)	BPR.	FLAPS T/O	FLAPS APPR.	NOISE LEVELS - EPNdB SIDELINE 450 METER	SIDELINE 650 METER	ALT. FEET	TAKEOFF	APPR. 2000 METER	CHAPTER	NOTES	REFERENCE
DASSAULT BREGUET FALCON 20G	30.4 28.8	2 ATF3-6-2C	5.1	2.9	10	40	89.7			83.7	95.8	3	*	I-3
DASSAULT BREGUET FALCON 20G	32.0 27.6	2 ATF3-6-2C	5.1	2.9	10	40	89.6			85.0	95.8	3	*	I-3
DASSAULT BREGUET MERCURE 100A	120.2 110.9	2 JT8D-15	15.5	0.99	5	25	102.6	100.0		93.0	103.7	2		I-1
DASSAULT BREGUET MERCURE 100B	125.0 115.0	2 JT8D-15	15.5	1.	5	25		99.9		94.1	103.0	2		I-3
FOKKER 614	44.1 44.1	2 M45H	6.9	3.1		35		89.6		90.5	99.0	2		I-1
FOKKER F28 MK2000	65.0 59.0	2 RB183MK555-15	41.8	1.	6	42	99.5			90.0	101.8	2		ANM
ILUSKY IL-62M	165.0 105.0	4 D-30KU	44.0	2.46	30	30	103.7	100.5	2000	106.9	105.0	2		I-5
TUPOLEV TU-134A	47.0 43.0	2 D-30P	13.6	1.	10	38	105.1	101.9	2000	65.3		2		I-5
TUPOLEV TU-154A	98.0 78.0	3 NK-8-2U	31.5	1.	28	45	101.0	97.8	2000	101.1	106.0	2		I-5
YAKOLEV YAK-40	16.0 16.0	3 AI-25	3.5	2.	20	35	91.7	88.5	2000	88.7	99.3	2		I-5

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
MCDONNELL DOUGLAS DC-10-10	CF6-6D1	455.0	100.2	105.5	96.6	*
MCDONNELL DOUGLAS DC-10-10	CF6-6D1A	430.0	98.1	105.5	97.0	*
MCDONNELL DOUGLAS DC-10-10	CF6-6D1A	455.0	100.2	105.5	96.6	*
MCDONNELL DOUGLAS DC-10-10	CF6-6K	410.0	96.8	103.3	96.3	*
MCDONNELL DOUGLAS DC-10-10	CF6-6K	455.0	100.9	103.8	95.5	*
MCDONNELL DOUGLAS DC-10-10	CF6-6K2	430.0	97.4	103.3	96.5	*
MCDONNELL DOUGLAS DC-10-10	CF6-6K2	455.0	99.3	103.8	96.1	*
MCDONNELL DOUGLAS DC-10-15	CF6-50C2-F	455.0	94.6	103.1	95.8	
MCDONNELL DOUGLAS DC-10-30	CF6-50C2	555.0	96.8	105.0	97.8	
MCDONNELL DOUGLAS DC-10-30	CF6-50C2	555.0	96.8	106.0	97.8	15
MCDONNELL DOUGLAS DC-10-30	CF6-50C2	590.0	99.0	105.3	97.9	
MCDONNELL DOUGLAS DC-10-30	CF6-50C2	590.0	99.0	106.4	97.7	15
MCDONNELL DOUGLAS DC-10-30	CF6-50C2-R	555.0	97.6	105.7	97.6	
MCDONNELL DOUGLAS DC-10-30	CF6-50C2-R	572.0	98.6	106.5	97.5	
MCDONNELL DOUGLAS DC-10-30	CF6-50C2B	555.0	96.1	105.0	98.4	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
MCDONNELL DOUGLAS DC-10-30	CF6-50C2B	555.0	96.1	106.0	98.4	15
MCDONNELL DOUGLAS DC-10-30	CF6-50C2B	572.0	97.4	106.0	98.5	15
MCDONNELL DOUGLAS DC-10-30	CF6-50C2B	590.0	98.7	105.3	98.5	
MCDONNELL DOUGLAS DC-10-40	JT9D-20D	530.0	100.8	105.7	95.2	*
MCDONNELL DOUGLAS DC-10-40	JT9D-59A	555.0	101.4	106.4	98.0	*
MCDONNELL DOUGLAS DC-10-40	JT9D-59A	572.0	102.2	106.4	97.9	*
MCDONNELL DOUGLAS MD-80	JT8D-209	140.0	89.4	92.8	94.0	10
MCDONNELL DOUGLAS MD-80	JT8D-209	149.5	91.8	92.9	93.8	10
MCDONNELL DOUGLAS MD-80	JT8D-217	142.0	88.7	92.9	95.2	10
MCDONNELL DOUGLAS MD-80	JT8D-217	160.0	92.7	93.7	95.1	10
MCDONNELL DOUGLAS MD-80	JT8D-219	140.0	87.2	92.8	96.5	10
MCDONNELL DOUGLAS MD-80	JT8D-219	160.0	91.5	93.7	96.4	10
MCDONNELL DOUGLAS MD-81	JT8D-209	142.0	90.6	93.2	94.2	
MCDONNELL DOUGLAS MD-82	JT8D-209	149.5	92.2	93.2	94.0	
MCDONNELL DOUGLAS MD-82	JT8D-217	149.5	90.4	93.2	96.3	

APPENDIX 3

STAGE 3
TURBOJET POWERED AIRCRAFT

MAKE / MODEL	ENGINE MODEL	MTOW (LBS/ 1000)	NOISE LEVELS EPNdB			NOTES
			TAKEOFF	APPROACH	SIDELINE	
MCDONNELL DOUGLAS MD-83	JT8D-217A	160.0	92.0	93.7	95.9	*
MCDONNELL DOUGLAS MD-83	JT8D-217C	160.0	91.5	93.7	96.3	*
MCDONNELL DOUGLAS MD-83	JT8D-219	160.0	90.8	93.7	97.2	
MCDONNELL DOUGLAS MD-87	JT8D-219	149.5	88.5	93.3	97.1	*
MCDONNELL DOUGLAS MD-88	JT8D-219	164.0	92.3	93.7	96.3	
MITSUBISHI MU-300	JT15D-4	14.1	86.3	85.8	88.0	*
MITSUBISHI MU-300	JT15D-4D	15.5	81.2	85.5	88.4	
ROCKWELL INTERNAT. SABRELINER 65	TFE731-3R	24.0	84.0	90.6	93.0	*

See Appendix 1 for corresponding notes and references.

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
BOEING	B-747-200	800.0	JT9D-7F	10	109.7
BOEING	B-747-200	812.0	JT9D-7FW/-7J	10	109.7
BOEING	B-747-100	734.0	JT9D-3A	10	109.4
BOEING	B-747-100	750.0	JT9D-7F	10	109.4
BOEING	B-747-100	750.0	JT9D-7FWET	10	109.4
BOEING	B-747-200	805.0	JT9D-7FW	10	109.4
BOEING	B-747-200	785.0	JT9D-7A	10	109.3
BOEING	B-747-200	800.0	JT9D-7J	10	109.3
BOEING	B-747-200	767.0	JT9D-3A	10	108.6
BOEING	B-747-100	750.0	JT9D-7A	10	107.8
BOEING	B-747-100	750.0	JT9D-7WET	10	107.7
BOEING	B-747-200	773.0	JT9D-3AWET	10	107.7
BOEING	B-747-100	750.0	JT9D-7FW	10	107.6
BOEING	B-747-200	770.0	JT9D-7	10	107.4
BOEING	B-747-200	785.0	JT9D-7WET	10	107.3
BOEING	B-747-100	710.0	JT9D-7	10	106.6
BOEING	B-747-200	833.0	RB.211-524C2	10	106.5
BOEING	B-747-SP	701.0	JT9D-7J	10	106.0
BOEING	B-747-SP	702.0	JT9D-7A	10	106.0
BOEING	B-747-SP	701.0	JT9D-7FW	10	105.9

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
BOEING	B-747-200	820.0	RB.211-524B	10	105.5
BOEING	B-747-200	820.0	RB.211-524B2	10	105.5
BOEING W/COMTRAN QN	B-707-300B(ADV)/300C	322.3	JT3D-3D-3B(IC)	14	105.5
MCDONNELL DOUGLAS	DC-08-63 W/ADC QN	355.0	JT3D-3B	12	104.8
BOEING	B-747-SP	660.0	JT9D-7F	10	104.4
MCDONNELL DOUGLAS	DC-10-30	572.0	CF6-50C/ALT	10	104.4
MCDONNELL DOUGLAS	DC-10-30	572.0	CF6-50C1	10	104.4
MCDONNELL DOUGLAS	DC-08-62 W/ADC QN	350.0	JT3D-3B	12	104.3
MCDONNELL DOUGLAS	DC-08-63 W/ADC QN	355.0	JT3D-7	12	104.1
BOEING	B-747-200	833.0	RB.211-524D4	10	103.9
MCDONNELL DOUGLAS	DC-08-62 W/TNC QN	350.0	JT3D-3B	12	103.6
BOEING	B-747-200	833.0	JT9D-7Q	10	103.2
MCDONNELL DOUGLAS	DC-08-62 W/ADC QN	335.0	JT3D-3B	12	102.5
BOEING	B-727-200	208.0	JT8D-17RQN	5	102.4
BOEING	B-747-SR	610.0	JT9D-7A	10	102.4
MCDONNELL DOUGLAS	DC-10-40	572.0	JT9D-59A	10	102.2
BOEING	B-747-200	820.0	CF6-50E	10	102.0
BOEING	B-747-200	833.0	CF6-50E2	10	101.8
BOEING	B-747-300	820.0	JT9D-7R4G2	10	101.8
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6D	0	101.8

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
MCDONNELL DOUGLAS	DC-08-62 W/TNC QN	335.0	JT3D-3B	12	101.7
MCDONNELL DOUGLAS	DC-08-63 W/TNC QN	335.0	JT3D-3B	12	101.7
MCDONNELL DOUGLAS	DC-08-62 W/ADC QN	335.0	JT3D-7	12	101.6
BOEING	B-727-200	184.8	JT8D-9QN	15	101.5
BOEING	B-747-100	750.0	RB.211-524C2	10	101.3
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6K	0	100.9
MCDONNELL DOUGLAS	DC-10-40	530.0	JT9D-20D	10	100.8
BOEING	B-727-200	178.0	JT8D-9FCD	5	100.7
BOEING	B-747-200	820.0	JT9D-70A	10	100.7
MCDONNELL DOUGLAS	DC-08-62 W/TNC QN	335.0	JT3D-7	12	100.7
MCDONNELL DOUGLAS	DC-08-63 W/TNC QN	335.0	JT3D-7	12	100.7
BOEING	B-747-300	800.0	CF6-50E2	10	100.2
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6D1	4	100.2
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6D1A	4	100.2
BOEING	B-727-200	172.5	JT8D-7QN	15	100.0
BOEING	B-727-200	190.5	JT8D-15QN	5	100.0
BOEING	B-727-200	177.6	JT8D-7FCD	5	99.8
BOEING	B-727-200	190.5	JT8D-17QN	5	99.6
BOEING	B-747-SP	696.0	RB.211-524B2	10	99.6
LOCKHEED	L1011-500	510.0	RB211-524B4	10	99.3

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6K2	4	99.3
BOEING	B-747-SP	702.0	RB.211-524D4	10	99.2
MCDONNELL DOUGLAS	DC-10-30	590.0	CF6-50C2	15	99.0
MCDONNELL DOUGLAS	DC-10-30	590.0	CF6-50C2-B	15	98.9
MCDONNELL DOUGLAS	DC-10-30	572.0	CF6-50C2-R	10	98.6
BOEING	B-727-100	169.5	JT8D-1FCD	5	98.5
LOCKHEED	L-1011-100	466.0	RB.211-22B	10	98.5
LOCKHEED	L-1011-500	496.0	RB.211-524B	14	98.4
BOEING	B-727-100	169.5	JT8D-9FCD	5	98.3
LOCKHEED	L-1011-200	466.0	RB.211-524B	10	98.1
MCDONNELL DOUGLAS	DC-09-50	121.0	JT8D-17	0	98.1
LOCKHEED	L-1011-500	504.0	RB.211-524B3	22	98.0
MCDONNELL DOUGLAS	DC-09-34	121.0	JT8D-17	0	98.0
BOEING	B-727-100	169.5	JT8D-7FCD	5	97.9
MCDONNELL DOUGLAS	DC-09-34	121.0	JT8D-15	0	97.8
MCDONNELL DOUGLAS	DC-09-50	121.0	JT8D-15	0	97.8
BOEING	B-737-200 ADV.	128.1	JT8D-15QN	1	97.7
MCDONNELL DOUGLAS	DC-09-30	114.0	JT8D-9	0	97.1
BOEING	B-737-200 ADV.	128.1	JT8D-17QN	1	97.0
BOEING	B-737-200 ADV.	122.5	JT8D-9QN	1	96.9

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
MCDONNELL DOUGLAS	DC-09-40	114.0	JT8D-11	0	96.8
MCDONNELL DOUGLAS	DC-09-34	110.0	JT8D-9	0	96.1
AIRBUS	A300B4-203	363.7	CF6-50C2	16	96.0
LOCKHEED	L-1011-1	430.0	RB.211-22B	10	96.0
LOCKHEED	L-1011	430.0	RB.211-22B	14	95.9
MCDONNELL DOUGLAS	DC-09-30	110.0	JT8D-7	0	95.9
MCDONNELL DOUGLAS	DC-09-30	114.0	JT8D-15	0	95.8
MCDONNELL DOUGLAS	DC-09-40	114.0	JT8D-15	0	95.8
BRITISH AEROSPACE	1-11 400	89.5	SPEY511-14/14W	0	95.7
MCDONNELL DOUGLAS	DC-08-73	355.0	CFM56-2-C1	12	95.7
BOEING	B-737-200 NON-ADV.	117.0	JT8D-9QN	1	95.5
BOEING	B-767-200	345.0	JT9D-7R4D(B)	1	95.2
MCDONNELL DOUGLAS	DC-08-72	350.0	CFM56-2-C1	12	95.2
MCDONNELL DOUGLAS	DC-09-30	108.0	JT8D-7A	0	95.1
ROCKWELL INTERNAT.	SABRELINER 60	20.2	JT12A-8		95.0
BOEING	B-767-200	351.0	JT9D-7R4E	1	94.8
BOEING	B-737-200 NON-ADV.	109.0	JT8D-7QN	1	94.7
BOEING	B-767-200	345.0	JT9D-7R4D(A)	1	94.6
MCDONNELL DOUGLAS	DC-10-15	455.0	CF6-50C2-F	5	94.6
MCDONNELL DOUGLAS	DC-08-71	328.0	CFM56-2-C1	15	94.5

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
MCDONNELL DOUGLAS	DC-08-71	325.0	CFM56-2-C1	15	94.3
MCDONNELL DOUGLAS	DC-09-30	108.0	JT8D-17	0	94.3
GATES LEARJET	25	15.0	CJ610-6		94.0
GATES LEARJET	25C	15.0	CJ610-6	20	94.0
GATES LEARJET	25D	15.0	CJ610-6	20	94.0
AIRBUS	A300B4-103	347.2	CF6-50C2	16	93.6
BRITISH AEROSPACE	1-11 200	79.8	SPEY 506	3	93.3
LOCKHEED	1329-25 JETSTAR II	44.5	TFE731-3		93.1
BOEING	B-747-SR	571.0	CF6-45A2	10	93.0
FOKKER	F28 MK4000	73.0	RB183MK555-15P	6	92.9
LOCKHEED	1329-23	43.8	TFE731-3-1E	20	92.7
MCDONNELL DOUGLAS	MD-80	160.0	JT8D-217	2	92.7
GULFSTREAM AMER.	G-II GULFSTREAM	65.5	SPEY 511-8	10	92.5
BRITISH AEROSPACE	HS 125-600A	25.5	VIPER 601		92.3
FOKKER	F28 MK4000	73.0	RB183MK555-15H	6	91.9
GATES LEARJET	24D	13.5	CJ610-6	20	91.9
MCDONNELL DOUGLAS	MD-80	149.5	JT8D-209	0	91.8
BRITISH AEROSPACE	HS 125-700A	25.5	TFE 731-3R		91.6
MCDONNELL DOUGLAS	MD-80	160.0	JT8D-219	2	91.5
MCDONNELL DOUGLAS	DC-09-10	90.7	JT8D-7/-7A	10	91.4

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
BOEING	B-767-200	345.0	CF6-80A	1	91.3
GULFSTREAM AMER.	G-IIB/G-III	68.2	SPEY 511-8	10	91.3
GULFSTREAM AMER.	G-III	69.7	SPEY 511-8	10	91.1
FOKKER	F28 MK3000	71.0	RB183MK555-15H	6	91.0
AIRBUS	A300B2-203	313.1	CF6-50C2	16	90.9
BOEING	B-767-200	351.0	CF6-80A2	1	90.9
ROCKWELL INTERNAT.	SABRELINER 80	23.3	CF700-2D-2		90.7
GATES LEARJET	25D/25F	15.0	CJ610-6/8A	8	90.1
FOKKER	F28 MK1000	65.0	RB183MK555-15	6	90.0
FOKKER	F28 MK2000	65.0	SPEY MK555-15	6	90.0
GATES LEARJET	24	13.0	CJ610-1/-4	10	89.0
BEECH	MU-300-10	15.8	JT15D-5	10	88.6
BOEING	B-757-200	240.0	RB.211-535C	5	88.1
BRITISH AEROSPACE	HS 125-600A	25.5	TFE 731-3		88.0
BRITISH AEROSPACE	HS 125-700A	25.5	TFE 731-3		88.0
GATES LEARJET	23	12.5	CJ610-1/-4	10	88.0
BOEING	B-757-200	230.0	P+W 2037	5	87.6
GATES LEARJET	28/29	15.0	CJ610-8A	8	87.0
BOEING	B-737-300	135.0	CFM56-3-B-1	1	86.5
MITSUBISHI	MU-300	14.1	JT15D-4	10	86.3

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
CESSNA	650 CITATION III	22.0	TFE731-3B-100S	20	84.6
BRITISH AEROSPACE	146-200A	89.5	ALF 502R-5	18	85.9
GATES LEARJET	24F	13.5	CJ610-6	8	85.8
BRITISH AEROSPACE	HS 125-3A/RA	23.6	TFE 731-3		85.5
BRITISH AEROSPACE	HS 125-400A	23.6	TFE 731-3		85.5
BRITISH AEROSPACE	HS 125-400F	23.6	TFE 731-3		85.5
GATES LEARJET	55	21.0	TFE731-3A-2B	8	85.5
BOEING	B-737-300	135.0	CFM56-3-B-2	1	84.9
BOEING	B-757-200	240.0	RB.211-535-E4	5	84.8
GATES LEARJET	35/36	18.0	TFE 731-2-2B	20	84.5
DASSAULT BREGUET	FALCON 50	38.8	TFE 731-2	20	84.3
GATES LEARJET	24E	12.9	CJ610-6	8	84.3
BRITISH AEROSPACE	HS 125-1A /1867	21.7	TFE 731-3		84.2
BRITISH AEROSPACE	HS 125-3A	21.7	TFE 731-3		84.2
ROCKWELL INTERNAT.	SABRELINER 65	24.0	TFE731-3R		84.0
DASSAULT BREGUET	FALCON 200 MYSTERE	32.0	ATF3-6-4C	5	83.9
GATES LEARJET	36A	18.3	TFE731-2-2B	20	83.9
GATES LEARJET	24F-A	12.5	CJ610-6	8	83.6
GATES LEARJET	35A	18.0	TFE 731-2-2B	20	83.6
BRITISH AEROSPACE	HS 125-1A	21.2	TFE 731-3R		83.4

APPENDIX 4

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** TAKEOFF ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS TAKE-OFF	NOISE LEVELS (EPNdB) TAKEOFF
BRITISH AEROSPACE	146-100A	76.0	ALF 502R-3	18	83.0
DASSAULT BREGUET	FALCON 10	18.3	TFE 731-2	15	82.9
CANADAIR	CL-600	36.0	ALF-502	20	81.6
ISRAEL AIRCRAFT	1124 WESTWIND	22.9	TFE731-3-1G	20	81.2
BRITISH AEROSPACE	HS125-800	27.4	TFE731-5R-1H	0	80.9
AEROSPATIALE	SN601 CORVETTE	13.9	JT15D-4	15	80.4
CESSNA	550 CITATION II	13.3	JT15D-4	15	80.1
CESSNA	551 CITATION II	12.5	JT15D-4	15	80.1
CANADAIR	CL-601 CHALLENGER	42.1	CF34-1A	20	79.4
GATES LEARJET	35A/36A	18.3	TFE 731-2-2B	8	79.2
CESSNA	500 CITATION I	10.3	JT15D-1	15	79.0
CESSNA	500/501 CITATION I	11.8	JT15D-1/-1A	15	76.4

See Appendix 1 for corresponding notes and references.

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/ 1000)	ENGINE MODEL	FLAPS APP- ROACH	NOISE LEVELS (EPNdB) APPR.
MCDONNELL DOUGLAS	DC-10-30	572.0	CF6-50C1	50	109.0
MCDONNELL DOUGLAS	DC-10-30	572.0	CF6-50C/ALT	50	108.4
MCDONNELL DOUGLAS	DC-08-62 W/ADC QN	350.0	JT3D-3B	50	108.3
MCDONNELL DOUGLAS	DC-08-62 W/ADC QN	335.0	JT3D-3B	50	108.3
MCDONNELL DOUGLAS	DC-08-62 W/ADC QN	335.0	JT3D-7	50	108.3
MCDONNELL DOUGLAS	DC-08-63 W/ADC QN	355.0	JT3D-3B	50	108.3
MCDONNELL DOUGLAS	DC-08-63 W/ADC QN	355.0	JT3D-7	50	108.3
BOEING	B-747-100	750.0	JT9D-7F	30	108.0
BOEING	B-747-100	750.0	JT9D-7FWET	30	108.0
MCDONNELL DOUGLAS	DC-08-62 W/TNC QN	350.0	JT3D-3B	50	107.9
BOEING	B-747-200	800.0	JT9D-7F	30	107.8
BOEING	B-747-200	800.0	JT9D-7J	30	107.8
BOEING	B-747-200	805.0	JT9D-7FW	30	107.8
BOEING	B-747-200	820.0	RB.211-524B	30	107.8
MCDONNELL DOUGLAS	DC-08-62 W/TNC QN	335.0	JT3D-3B	50	107.8
MCDONNELL DOUGLAS	DC-08-63 W/TNC QN	335.0	JT3D-3B	50	107.8
BOEING	B-747-100	750.0	JT9D-7FW	30	107.4
BOEING	B-747-200	812.0	JT9D-7FW/-7J	30	107.4
BOEING	B-747-200	785.0	JT9D-7A	30	107.3
BOEING	B-747-100	734.0	JT9D-3A	30	107.2

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
BOEING	B-747-100	750.0	JT9D-7WET	30	107.1
BOEING	B-747-200	820.0	RB.211-524B2	30	107.0
BOEING	B-747-200	833.0	RB.211-524C2	30	107.0
BOEING	B-747-SP	702.0	RB.211-524D4	30	107.0
BOEING	B-747-100	710.0	JT9D-7	30	106.9
BOEING	B-747-100	750.0	JT9D-7A	30	106.9
BOEING	B-747-200	785.0	JT9D-7WET	30	106.8
MCDONNELL DOUGLAS	DC-10-30	590.0	CF6-50C2-B	50	106.8
BOEING	B-747-SR	610.0	JT9D-7A	30	106.7
BOEING	B-747-200	833.0	JT9D-7Q	30	106.6
BOEING	B-747-300	820.0	JT9D-7R4G2	30	106.6
BOEING	B-747-100	750.0	RB.211-524C2	30	106.5
MCDONNELL DOUGLAS	DC-08-62 W/TNC QN	335.0	JT3D-7	35	106.5
MCDONNELL DOUGLAS	DC-08-63 W/TNC QN	335.0	JT3D-7	35	106.5
MCDONNELL DOUGLAS	DC-10-30	572.0	CF6-50C2-R	50	106.5
MCDONNELL DOUGLAS	DC-10-30	590.0	CF6-50C2	50	106.4
MCDONNELL DOUGLAS	DC-10-40	572.0	JT9D-59A	50	106.4
BOEING	B-727-200	177.6	JT8D-7FCD	40	106.3
BOEING	B-747-200	770.0	JT9D-7	30	106.2
BOEING	B-747-200	773.0	JT9D-3AWET	30	106.2

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
BOEING	B-747-200	767.0	JT9D-3A	30	106.0
BOEING	B-727-100	169.5	JT8D-9FCD	40	105.8
BOEING	B-727-200	178.0	JT8D-9FCD	30	105.8
BOEING	B-747-200	820.0	JT9D-70A	30	105.8
BOEING W/COMTRAN QN	B-707-300B(ADV)/300C	322.3	JT3D-3D-3B(IC)	25	105.7
MCDONNELL DOUGLAS	DC-10-40	530.0	JT9D-20D	50	105.7
BOEING	B-747-200	820.0	CF6-50E	30	105.6
BOEING	B-747-200	833.0	CF6-50E2	30	105.6
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6D	50	105.5
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6D1	50	105.5
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6D1A	50	105.5
BOEING	B-737-200 ADV.	122.5	JT8D-9QN	40	105.3
BOEING	B-737-200 NON-ADV.	117.0	JT8D-9QN	40	105.3
BOEING	B-747-300	800.0	CF6-50E2	30	105.0
BOEING	B-727-200	172.5	JT8D-7QN	40	104.9
BOEING	B-747-200	833.0	RB.211-524D4	30	104.9
BOEING	B-727-100	169.5	JT8D-1FCD	40	104.3
BOEING	B-747-SR	571.0	CF6-45A2	30	104.2
BOEING	B-727-100	169.5	JT8D-7FCD	40	104.1
BOEING	B-747-SP	660.0	JT9D-7F	30	104.1

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/ 1000)	ENGINE MODEL	FLAPS APP- ROACH	NOISE LEVELS (EPNdB) APPR.
BOEING	B-747-SP	701.0	JT9D-7FW	30	104.1
BOEING	B-737-200 ADV.	128.1	JT8D-15QN	40	103.8
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6K	50	103.8
MCDONNELL DOUGLAS	DC-10-10	455.0	CF6-6K2	50	103.8
BOEING	B-747-SP	701.0	JT9D-7J	30	103.3
BOEING	B-727-200	184.8	JT8D-9QN	40	103.2
BOEING	B-727-200	190.5	JT8D-15QN	40	103.2
BOEING	B-727-200	190.5	JT8D-17QN	40	103.2
BOEING	B-727-200	208.0	JT8D-17RQN	40	103.2
BOEING	B-747-SP	702.0	JT9D-7A	30	103.2
AIRBUS	A300B2-203	313.1	CF6-50C2	25	103.1
MCDONNELL DOUGLAS	DC-10-15	455.0	CF6-50C2-F	50	103.1
AIRBUS	A300B4-103	347.2	CF6-50C2	25	103.0
BRITISH AEROSPACE	HS 125-600A	25.5	VIPER 601	45	102.9
BOEING	B-737-200 ADV.	128.1	JT8D-17QN	40	102.8
BOEING	B-747-SP	696.0	RB.211-524B2	30	102.8
LOCKHEED	L-1011	430.0	RB.211-22B	42	102.8
LOCKHEED	L-1011-1	430.0	RB.211-22B	42	102.8
LOCKHEED	L-1011-100	466.0	RB.211-22B	42	102.8
BOEING	B-767-200	345.0	JT9D-7R4D(A)	30	102.7

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN
DESCENDING EPNdB FOR U.S. CERTIFICATED
TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
GATES LEARJET	25D	15.0	CJ610-6	40	102.7
BOEING	B-767-200	345.0	JT9D-7R4D(B)	30	102.6
AIRBUS	A300B4-203	363.7	CF6-50C2	25	102.4
BOEING	B-737-200 NON-ADV.	109.0	JT8D-7QN	40	102.1
LOCKHEED	L1011-500	510.0	RB211-524B4	33	102.0
BOEING	B-767-200	351.0	JT9D-7R4E	30	101.9
MCDONNELL DOUGLAS	DC-09-34	121.0	JT8D-17	50	101.9
MCDONNELL DOUGLAS	DC-09-50	121.0	JT8D-15	50	101.9
MCDONNELL DOUGLAS	DC-09-50	121.0	JT8D-17	50	101.9
FOKKER	F28 MK2000	65.0	SPEY MK555-15	42	101.8
BOEING	B-767-200	345.0	CF6-80A	30	101.7
BOEING	B-767-200	351.0	CF6-80A2	30	101.7
GATES LEARJET	28/29	15.0	CJ610-8A	40	101.7
LOCKHEED	L-1011-500	496.0	RB.211-524B	33	101.5
FOKKER	F28 MK4000	73.0	RB183MK555-15P	42	101.4
LOCKHEED	L-1011-200	466.0	RB.211-524B	33	101.4
MCDONNELL DOUGLAS	DC-09-34	121.0	JT8D-15	50	101.4
FOKKER	F28 MK1000	65.0	RB183MK555-15	42	101.2
MCDONNELL DOUGLAS	DC-09-30	108.0	JT8D-17	50	101.1
GATES LEARJET	25	15.0	CJ610-6		100.8

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
GATES LEARJET	25C	15.0	CJ610-6	40	100.8
MCDONNELL DOUGLAS	DC-09-10	90.7	JT8D-7/-7A	50	100.4
BOEING	B-757-200	240.0	RB.211-535C	30	100.3
LOCKHEED	L-1011-500	504.0	RB.211-524B3	33	100.2
ROCKWELL INTERNAT.	SABRELINER 80	23.3	CF700-2D-2		100.2
BOEING	B-737-300	135.0	CFM56-3-B-1	40	99.9
BOEING	B-737-300	135.0	CFM56-3-B-2	40	99.9
BRITISH AEROSPACE	1-11 400	89.5	SPEY511-14/14W	45	99.9
FOKKER	F28 MK3000	71.0	RB183MK555-15H	42	99.4
FOKKER	F28 MK4000	73.0	RB183MK555-15H	42	99.4
MCDONNELL DOUGLAS	DC-09-30	114.0	JT8D-9	50	99.4
MCDONNELL DOUGLAS	DC-09-40	114.0	JT8D-11	50	99.4
MCDONNELL DOUGLAS	DC-09-40	114.0	JT8D-15	50	99.4
MCDONNELL DOUGLAS	DC-09-34	110.0	JT8D-9	50	99.1
MCDONNELL DOUGLAS	DC-09-30	114.0	JT8D-15	50	99.0
MCDONNELL DOUGLAS	DC-08-71	328.0	CFM56-2-C1	50	98.6
MCDONNELL DOUGLAS	DC-08-73	355.0	CFM56-2-C1	50	98.5
ROCKWELL INTERNAT.	SABRELINER 60	20.2	JT12A-8	24	98.5
GULFSTREAM AMER.	G-II GULFSTREAM	65.5	SPEY 511-8	39	98.4
MCDONNELL DOUGLAS	DC-08-71	325.0	CFM56-2-C1	50	98.3

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
MCDONNELL DOUGLAS	DC-08-72	350.0	CFM56-2-C1	50	98.2
GATES LEARJET	23	12.5	CJ610-1/-4		98.0
GATES LEARJET	24	13.0	CJ610-1/-4		98.0
BRITISH AEROSPACE	1-11 200	79.8	SPEY 506	45	97.8
BOEING	B-757-200	230.0	P+W 2037	30	97.6
DASSAULT BREGUET	FALCON 50	38.8	TFE 731-2	48	97.4
GULFSTREAM AMER.	G-IIB/G-III	68.2	SPEY 511-8	39	97.3
GULFSTREAM AMER.	G-III	69.7	SPEY 511-8	39	97.3
MCDONNELL DOUGLAS	DC-09-30	108.0	JT8D-7A	50	97.3
MCDONNELL DOUGLAS	DC-09-30	110.0	JT8D-7	50	97.3
LOCKHEED	1329-23	43.8	TFE731-3-1E	59	96.9
LOCKHEED	1329-25 JETSTAR II	44.5	TFE731-3		96.9
GATES LEARJET	24D	13.5	CJ610-6	40	96.7
BRITISH AEROSPACE	HS125-800	27.4	TFE731-5R-1H	45	96.5
BRITISH AEROSPACE	HS 125-3A	21.7	TFE 731-3	45	96.3
BRITISH AEROSPACE	HS 125-600A	25.5	TFE 731-3	45	96.3
BRITISH AEROSPACE	HS 125-700A	25.5	TFE 731-3	45	96.3
BRITISH AEROSPACE	HS 125-1A	21.2	TFE 731-3R	45	96.0
BRITISH AEROSPACE	HS 125-1A /1867	21.7	TFE 731-3	45	96.0
BRITISH AEROSPACE	HS 125-700A	25.5	TFE 731-3R	45	96.0

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
BRITISH AEROSPACE	HS 125-3A/RA	23.6	TFE 731-3	45	95.7
BRITISH AEROSPACE	HS 125-400A	23.6	TFE 731-3	45	95.7
BRITISH AEROSPACE	HS 125-400F	23.6	TFE 731-3	45	95.7
BRITISH AEROSPACE	146-200A	89.5	ALF 502R-5	33	95.6
DASSAULT BREGUET	FALCON 10	18.3	TFE 731-2	52	95.3
GATES LEARJET	24E	12.9	CJ610-6	40	95.3
GATES LEARJET	24F	13.5	CJ610-6	40	95.3
GATES LEARJET	24F-A	12.5	CJ610-6	40	95.3
GATES LEARJET	25D/25F	15.0	CJ610-6/8A	40	95.2
BRITISH AEROSPACE	146-100A	76.0	ALF 502R-3	33	95.1
BOEING	B-757-200	240.0	RB.211-535-E4	30	95.0
DASSAULT BREGUET	FALCON 200 MYSTERE	32.0	ATF3-6-4C	40	93.9
CESSNA	650 CITATION III	22.0	TFE731-3B-100S	37	93.8
MCDONNELL DOUGLAS	MD-80	160.0	JT8D-217	40	93.7
MCDONNELL DOUGLAS	MD-80	160.0	JT8D-219	40	93.7
MCDONNELL DOUGLAS	MD-80	149.5	JT8D-209	40	92.9
GATES LEARJET	35/36	18.0	TFE 731-2-2B	40	92.2
BEECH	MU-300-10	15.8	JT15D-5	30	91.4
GATES LEARJET	35A/36A	18.3	TFE 731-2-2B	40	91.4
GATES LEARJET	36A	18.3	TFE731-2-2B	40	91.4

APPENDIX 5

AIRCRAFT NOISE CERTIFICATION LEVELS IN DESCENDING EPNdB FOR U.S. CERTIFICATED TURBOJET POWERED AIRCRAFT

*** APPROACH ***

MAKE	MODEL	MTOW (LBS/1000)	ENGINE MODEL	FLAPS APPROACH	NOISE LEVELS (EPNdB) APPR.
GATES LEARJET	35A	18.0	TFE 731-2-2B	40	91.3
CANADAIR	CL-600	36.0	ALF-502	45	91.2
GATES LEARJET	55	21.0	TFE731-3A-2B	40	90.6
ROCKWELL INTERNAT.	SABRELINER 65	24.0	TFE731-3R		90.6
CESSNA	550 CITATION II	13.3	JT15D-4	40	90.5
CESSNA	551 CITATION II	12.5	JT15D-4	40	90.5
AEROSPATIALE	SN601 CORVETTE	13.9	JT15D-4	35	89.5
CANADAIR	CL-601 CHALLENGER	42.1	CF34-1A	45	89.4
ISRAEL AIRCRAFT	1124 WESTWIND	22.9	TFE731-3-1G	20	88.4
CESSNA	500 CITATION I	10.3	JT15D-1	40	87.7
CESSNA	500/501 CITATION I	11.8	JT15D-1/-1A	40	87.7
MITSUBISHI	MU-300	14.1	JT15D-4	30	85.8

See Appendix 1 for corresponding notes and references.

APPENDIX 6
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
AIRCRAFT IN THE TRANSPORT CATEGORY

AIRCRAFT MAKE,MODEL	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE,MODEL	SHP RPM	PROPELLER MAKE,MODEL	DIAM (IN)	BLADES	PITCH	FLAPS TAKEOFF APPR.	FORWARD SPEED (KTS) TO REF APPREF	NOISE LEVELS EPNDB SIDE LINE	TAKE OFF ALT.FT	APPR 2000 M.	STAGE AGE	REFERENCE NOTES
ATR 42-200	34.7 34.2	2 PRATT&WHITNEY 120	1800 1200	HAMILTON STD 14SF-1	156	4	V	15 30		83.8	82.1	96.8	3	NM
ATR 42-300	35.3 34.2	2 PRATT&WHITNEY 120	1800 1200	HAMILTON STD 14SF-1	156	4	V	15 30		83.8	82.6	96.8	3	NM
BRIT.AEROSPACE 748-2A	44.5 43.0	2 ROLLS-ROYCE DART 532-2	2470 1394	DOWTY-ROTOL DR212/4-30-4/22	144	4	V	15 28	122.2 106.1	96.3	92.5 1500	103.8	2	CR
BRIT.AEROSPACE 748-2B	44.5 43.0	2 ROLLS ROYCE DART 535-2	2470 1394	DOWTY ROTOL DR212/4-30-4/22	144	4	V	15 28	120.2 104.	96.8	92.5 1922	93.6	2	BA 1
BRIT.AEROSPACE JETSTREAM 31	15.2 14.6	2 GARRETT TPE331-10 UF/R	940	DOWTY-ROTOL R333/4-82-F/12	106	4	V	10 50		82.8	80.5	86.4	3	BA * **
CASA C-212-CB	14.3 13.8	2 AIRESEARCH TPE 331-5-251C	750 1591	HARTZELL HC-B4TN-5CL/LT10282H	107	4	V	10 20	125. 120.	84.0	87.3	91.2	3	EU *
CASA C-212-CC	16.4 16.2	2 AIRESEARCH TPE 331-10-501C	900 1591	HARTZELL HC-B4MN-5AL	110	4	V	10 15	135. 130.	86.7	87.6	93.7	3	EU *
CASA CN-235	31.8 31.3	2 GENERAL ELECTRIC CT7-7A		HAMILTON STD. 14RF-21	130	4		8 23		86.5	84.5	87.0	3	NM *
DEHAVILLAND DHC-7-101	43.0 41.0	4 PRATT&WHITNEY PT6A-50	1017 1210	HAMILTON STD. 24PF-305	135	4	V	25 25	95.1 102.1	83.3	80.1 2240	91.6	3	NE *
DEHAVILLAND DHC-7-103	44.0 42.0	4 PRATT&WHITNEY PT6A-50	1120 1210	HAMILTON STD. 24PF-305	135	4	V	25 25	95.9 103.3	84.0	80.5 2240	91.4	3	NE *

APPENDIX 6
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
AIRCRAFT IN THE TRANSPORT CATEGORY

AIRCRAFT MAKE,MODEL	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE,MODEL	SHP RPM	PROPELLER MAKE,MODEL	DIAM (IN)	BLADES	PITCH CONTROL	FLAPS TAKEOFF APPR.	FORWARD SPEED (KTS) TO REF APPREF	NOISE LEVELS EPNDB SIDE LINE	TAKE OFF ALT.FT	APPR 2000 M.	STAGE 16	REFERENCE NOTES
DEHAVILLAND	33.0	2	1800	HAMILTON STD.	156	4	V	15		86.3	80.7	95.1	3	CR
DHC-8	32.4	PRATT&WHITNEY		14SF-1				35						
		PW 120												
EMBRAER	21.2	2	1500	HAMILTON STD.	126	4	V	15	110.	81.6	76.6	92.5	3	SD
EMB-120	21.2	PRATT&WHITNEY		14RF-9				25	110.					
		PW 115												
FOKKER	45.0	2		DOWTY-ROTOL	138	4	V	0	127.9	90.1	86.9	94.3	3	NM
F27 MK500	43.5	ROLLS ROYCE		R193-4-30-4				40	109.					1
		DART 7/MK535-7												
FOKKER	45.0	2		DOWTY-ROTOL	138	4	V	0	127.9	89.8	87.4	94.3	3	NM
F27 MK500	43.5	ROLLS ROYCE		R193-4-30-4				40	109.					1
		DART 7/MK535-7R												
FOKKER	45.0	2		DOWTY-ROTOL	138	4	V	0	127.9	92.2	90.6	100.3	2	NM
F27 MK500	42.0	ROLLS ROYCE		R193-4-30-4				40	107.					
		DART 7/MK535-7R												
FOKKER	45.9	2		DOWTY-ROTOL	138	4	V	0	129.	89.8	87.6	94.3	3	NM
F27 MK500	43.5	ROLLS ROYCE		R193-4-30-4				40	109.					1
		DART 7/MK551-7R												
FOKKER	45.0	2		DOWTY-ROTOL	138	4	V	0	127.9	92.2	90.6	100.3	2	NM
F27 MK600	42.0	ROLLS ROYCE		R193-4-30-4				40	107.					
		DART7 MK532-7R												
LOCKHEED	155.0	4	4050	HAMILTON STD.	161	4	V	18	147.	93.9	98.4	99.1	2	A-1
L 100-30	132.0	ALLISON	1020	54H60				35	141.4					* **
		501-D22A												
SAAB FAIRCHILD	27.0	2	1210	DOWTY-ROTOL	126	4		15		87.6	79.3	89.6	3	CR
340	26.5	GENERAL ELECTRIC		R320/4-123-F/1				35			1730			
		CT7-5A												
SAAB FAIRCHILD	27.0	2	1210	DOWTY-ROTOL	126	4		15		87.4	79.5	89.6	3	CR
340	26.5	GENERAL ELECTRIC		R320/4-123-F/1				35			1680			
		CT7-7E												

APPENDIX 6
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
AIRCRAFT IN THE TRANSPORT CATEGORY

AIRCRAFT MAKE,MODEL	MTOW LW (LBS/ 1000)	ENGINE NUMBER	ENGINE MAKE,MODEL	SHP RPM	PROPELLER MAKE,MODEL	PROPELLER DIAM (IN)	BLADES	PROPELLER TYPE	FLAPS TAKEOFF APPR.	FORWARD SPEED (KTS) TO REF APPREF	NOISE LEVELS EPNDB SIDE LINE	TAKE OFF ALT.FT	APPR 2000 M.	STAGE IAGE	REFERENCE NOTES
SAAB-SCANIA 340A W/APU	27.3 26.5	2 GENERAL ELECTRIC CT7-5A2		1735	DOWTY-ROTOL R354/4-123-F13	132	4		35		86.2	77.5	86.3		CE
SHORT BROS. SD3-30	22.0 21.6	2 PRATT&WHITNEY PT6A-45		1120 1675	HARTZELL HC-B3MP-3A/M10282B-6	111	5	V	8 35	107. 102.	83.9	88.5 1990	92.8	3	CR *
SHORT BROS. SD3-60	26.0 25.7	2 PRATT&WHITNEY PT6A-65R		1327	HARTZELL HC-B5MP-3C/M10876K	111	5	V	5 30		83.7	84.4	89.9	3	CR **
SHORT BROS. SD3-60-300	27.1 26.5	2 PRATT&WHITNEY PT6A-67R		1700	HARTZELL HC-A6A-3/A10466E	108	6	V	15 15		82.7	80.0 1775	94.3	3	NM

APPENDIX 6 REFERENCES

A-1	ADVISORY CIRCULAR 36-1B 12/5/77
BA	BRITISH AEROSPACE
CR	CERTIFICATION REPORTS
EU	EUROPEAN REGION
NE	NEW ENGLAND REGION
NM	NORTHWEST MOUNTAIN REGION
SO	SOUTHERN REGION

APPENDIX 6 NOTES

1 EQUIPPED WITH STANDARD HUSHKIT

* FULL THRUST TAKEOFF

** 650 METER SIDELINE

SEE APPENDIX 1 FOR CHARTS AND EQUATIONS FOR THE CALCULATION OF NOISE CERTIFICATION LIMITS

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BLADES / TYPE	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
ANDERSON GREEN-MOOD 51	3.2 3.2	1 AVCO LYCOMING O-540-A4D5	250 2575 3	HARTZELL HC-E2YR-1S/8465-7R	77 2575	2 VP	167	75.2	-1.5	73.7		SM
BEECH A36 BONANZA	3.6 3.6	1 TELEDYNE IO-520-B	260 2700 5	MCCAULEY 3A32C760/82 NB-2	80 2700	3 VP	175	78.8	-0.6	78.2		G-3
BEECH A36 BONANZA	3.6 3.6	1 TELEDYNE IO-520-N	228 2550 5	MCCAULEY 2A36C23/84B-0	84 2550	2 VP	173	78.0	-0.6	77.4		CE
BEECH A36TC BONANZA	3.7 3.7	1 TELEDYNE TSIO-520-U	300 2700 5	MCCAULEY 3A32C760/82 NB-2	80 2700	3 VP	169	79.5	-0.3	79.2		CE
BEECH B100 KING AIR	11.8 11.2	2 AIRESEARCH TPE 331-6-252 B	715 2000 1	HARTZELL HC-B4TN-5C/T10173FB-12-1/2	90 2000	4 VP	230	80.2	-2.9	77.3		CE
BEECH B1900	16.6	2 PRATT&WHITNEY PT6-65B	1100 1700 2	HARTZELL HCB4MP-3A/M10877K	110 1702	4		80.5	3.1	77.4	1	CE
BEECH B200 SUPER KING AIR	12.5 12.5	2 PRATT&WHITNEY PT6A-41	847 2000 1	HARTZELL HC-B3TN-3G/T10178NB-3R	98 2000	3 VP	251	82.8	-4.1	78.7		CE
BEECH B200 SUPER KING AIR	12.5 12.5	2 PRATT&WHITNEY PT6A-42	850 2000 1	HARTZELL HC-B3TN-3G/T10178B-3R	98 2000	3 VP	245	82.8	-3.6	79.2		CE
BEECH B200/B200C SUPER KING AIR	12.5 12.5	2 PRATT&WHITNEY PT6A-41	845 2000 1	HARTZELL HC-B3TN-3G/T10178NB-3R	99 1996	3 VP	251	82.6	-3.6	79.0		CE
BEECH B200/B200C SUPER KING AIR	12.5 12.5	2 PRATT&WHITNEY PT6A-42	850 2000 2	MCCAULEY 3GFR34C702/100LA-2	98 2000	3 VP	255	79.3	-3.9	75.4		CE

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BLADES / DES	PITCH CTRL	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
BEECH B200CT SUPER KING AIR	12.5 12.5	2 PRATT&WHITNEY PT6A-42	845 2000 1	HARTZELL HC-B3TN-3G/T10178HB-3R	99 1996	3	V	251	82.8	-3.3	79.5		CE
BEECH B200T/B200CT SUPER KING AIR	12.5 12.5	2 PRATT&WHITNEY PT6A-42	850 2000 1	MCCAULEY 3GFR34C702/100LA-Z	98 2000	3		255	79.3	-3.8	75.5		CE
BEECH B300 SUPER KING AIR	15.0	2 PRATT&WHITNEY PT6A-60A	1050 1700 2	HARTZELL HC-B4MP-3/M10476K	105 1700	4			75.9	-3.8	72.1	1	CE
BEECH B36TC BONANZA	3.9	1 TELEDYNE TS10-520-U	293 2700	MCCAULEY 82NDA-4	78 2700	3	V	177	78.7	0.5	79.2		G-3
BEECH B55 BARON	5.1 5.1	2 TELEDYNE IO-470-L	221 2550 2	HARTZELL PHC-C3YF-2/FC7663-2R	76 2550	3	V	177	77.7	-3.0	74.7		CE
BEECH B55 BARON	5.1 5.1	2 TELEDYNE IO-470-L	223 2550 2	HARTZELL BHC-C2YF-2CH/FC8465-6	78 2550	2	V	178	81.0	-3.0	78.0		CE
BEECH B58 BARON	5.4 5.4	2 TELEDYNE IO-520-C	254 2550 2	HARTZELL BHC-J2YF-2C/FC8475-6	78 2550	2	V	192	82.0	-3.1	78.9		CE,G-3
BEECH B58 BARON	5.4 5.4	2 TELEDYNE IO-520-C	256 2650 2	HARTZELL PHC-J3YF-2/FC7663-8R	76 2650	3	V	195	81.9	-3.1	78.8		CE,G-3
BEECH B58	5.5 5.4	2 TCM IO-550-C4B	300 2700	HARTZELL FC-7663Q		4	V	196	78.5	-3.1	75.4		CE
BEECH B58P PRESS. BARON	6.1 6.1	2 TELEDYNE TSIO-520-L	301 2600 2	HARTZELL PHC-J3YF-2/FC7663-8R	78 2600	3	V	193	80.6	-1.5	79.1		A-1, G-3

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	B L A D E S	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
BEECH B58P BARON	6.2 6.2	2 CONTINENTAL TSIO-520-WB	294 2600 4	HARTZELL PHC-J3YF-2UF/FC7663-DR	78 2600	3	VI	197	78.2	-2.1	76.1		CE
BEECH B58TC TURBO BARON	6.1 6.1	2 TELEDYNE TSIO-520-WB	294 2600 4	HARTZELL PHC-J3YF-2UF/FC7663-DR	78 2600	3	VI	197	78.2	-2.1	76.1		CE
BEECH B58TC TURBO BARON	6.2 6.2	2 CONTINENTAL TSIO-520-L	301 2600 2	HARTZELL PHC-J3Y-2F/FC7663-DR	78 2600	3	VI	193	80.6	-1.5	79.1		CE,G-3
BEECH B60 DUKE	6.8 6.8	2 LYCOMING TIO-541-E1C4	296 2750 2	HARTZELL HC-F3YR-2UF/FC7479B-2R	74 2750	3	VI	178	82.1	-2.5	79.6		G-3
BEECH B65-90 TAURUS	9.0 8.6	2 PRATT&WHITNEY PT6A-135	700 1900 4	HARTZELL HC-B3TN-2(B)/T10173B-8	93 1900	3	VI	233	76.2	-5.8	70.4		SW
BEECH B76 DUCHESS	3.9 3.9	2 LYCOMING O-360-A1G6D	165 2700 2	HARTZELL HC-M2YR-2CEUF/FC7666A	76 2700	2	VI	160	80.2	-1.5	78.7		CE
BEECH B76 DUCHESS	4.0	2 LYCOMING O-360-A1G6D	165 2700 1	HARTZELL HC-M2YR-2CLUF/FC7666A	76 2700	2	VI	160	79.5	-2.3	77.2		I-1,G-3
BEECH B77 SKIPPER	1.7 1.7	1 LYCOMING O-235-L2C	115 2700 8	SENSENICH 72CKS12-0-52	72 2700	2	FI	104	65.1	-1.3	63.8		CE
BEECH B95-C55	5.3 5.3	2 TCM I10-550-C	300 2700 2	HARTZELL FC-7663Q	74 2700	4	VI	196	78.5	-3.1	75.4		CE
BEECH C23 SUNDOWNER	2.5 2.5	1 LYCOMING O-360-A4J	163 2700 2	SENSENICH 76EM8S5-0-60	76 2700	2	FI	117	73.3	0.0	73.3		CE

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
BEECH C24R SIERRA	2.8 2.8	1 LYCOMING IO-360-A1B6	202 2700 2	HARTZELL HC-M2YR-1BF/FC7666A-2R	76 2700	2	V	137	73.0	-1.3	71.7		B-1,CE
BEECH C90 KING AIR C90	9.7 9.2	2 PRATT&WHITNEY PT6A-21	550 2200	HARTZELL HC-B3TN-2B/T10173B-8	93 2200	3	V	231	78.7	-4.4	74.3		G-3
BEECH C90A KING AIR	10.1	PRATT&WHITNEY PT6A-21	550 2200 4	HARTZELL HC-B3TN-2(B)	93 2200	3		231	78.7	-4.4	74.3		CE
BEECH C99 AIRLINER	11.3 11.3	2 PRATT&WHITNEY PT6A-34	715 2200	HARTZELL HC-B3TN-3/T10173B-8	93 2200	3	V	241	79.3	-3.4	75.9		CE
BEECH D55	5.3 5.3	2 TCM IO-550-C	300 2700 2	HARTZELL FC-7063Q	74 2700	4	V	196	78.5	-3.4	75.0		CE
BEECH E55	5.3 5.3	2 TCM IO-550-C	300 2700 2	HARTZELL FC-7063Q	74 2700	4	V		78.5	-3.4	75.0		CE
BEECH E55	5.3 5.3	2 TCM IO-550-C	300 2700 V	HARTZELL FC-7063Q	74 2700	4	V		78.5	-3.4	75.0		CE
BEECH E55	5.3 5.3	2 TCM IO-550-C	300 2700 V	HARTZELL FC-7063Q	74 2700	4	V		78.5	-3.4	75.0		CE
BEECH E55 BARON	5.3 5.3	2 TELEDYNE IO-520-C	256 2650 2	HARTZELL PHC-J3Y-2F/FC7663-2R	76 2650	3	V	195	81.9	-3.2	78.7		CE
BEECH E55 BARON	5.3 5.3	2 TELEDYNE IO-520-C	254 2550 2	HARTZELL BHC-C2YF-2C/FC8475-6	78 2550	2	V	191	82.0	-3.2	78.8		CE

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN SMALL AIRCRAFT

AIRCRAFT MAKE MODEL POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER MAKE MODEL	ENGINE SHP RPM EXH	PROPELLER MAKE MODEL	PROPELLER DIAM (IN) RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
BEECH E90 KING AIR E90	10.1 9.7	2 PRATT&WHITNEY PT6A-28	550 2200	HARTZELL HC-B3TN-28/T10173B-8	93 2200	3	V	231	79.0	-4.0	75.0		G-3
BEECH F33 A/C BONANZA	3.4 3.4	1 TELEDYNE IO-520-B	260 2700 5	MCCAULEY 3A32C76/82NB-2	80 2700	3	V	175	78.3	-1.4	76.9		CE,G-3
BEECH F33 A/C BONANZA	3.4 3.4	1 TELEDYNE IO-520-BA	228 2550 5	MCCAULEY 2A36C23/84 B-0	84 2550	2	V	173	78.1	-1.5	76.6		CE
BEECH F90 SUPER KING AIR 90	10.9 10.9	2 PRATT&WHITNEY PT6A-135	754 1900 1	HARTZELL HC-B4TN-3B/T10173FB-10.5	92 1900	4	V	248	77.9	-5.0	72.9		CE
BEECH V35B BONANZA	3.4 3.4	1 TELEDYNE IO-520-B	260 2700 5	MCCAULEY 3A32C76/82 NB-2	80 2700	3	V	175	78.8	-2.0	76.8		CE,G-3
BEECH V35B BONANZA	3.4 3.4	1 TELEDYNE IO-520-BA	228 2550 5	MCCAULEY 2A36C23/84B-0	84 2550	2	V	173	78.1	-1.5	76.6		CE
BELLANCA 17-30A VIKING	3.2 3.2	1 CONTINENTAL IO-520-K	225 2550 8	MCCAULEY D3A34C401/90DFA-12	78 2550	3	F	129	79.4	-1.9	77.5		GL
BELLANCA 7ECA CITABRIA	1.6 1.6	1 LYCOMING O-235-K2C	115 2700 2	SENSENICH 74DM6S8-1-56	72 2700	2	F		71.5	-2.7	68.8		GL
BELLANCA 7GCAA CITABRIA	1.6 1.6	1 LYCOMING O-320-A2B/-A2D	150 2700 2	SENSENICH 74DM6S8-1-56	73 2800	2	F		71.5	-4.7	66.8		GL
BELLANCA 7GCBC CITABRIA	1.6 1.6	1 LYCOMING O-320-A2B/A2D	150 2700 2	SENSENICH 74DM6S8-1-56	73 2700	2	F	117	71.5	-4.6	66.9		GL

APPENDIX ;
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LM (LBS/ 1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	B L A D E S	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
BELLANCA 7GCBC SEAPLANE CITABRIA	1.8 1.8	1 LYCOMING O-320	150 2700 2	MCCAULEY 1A175GNA/8040	80 2500	2	F	89	68.4	1.9	70.3		GL
BELLANCA 8GCBC SCOUT	2.2 2.2	1 LYCOMING O-360-C1A/-C1E	180 2700 2	HARTZELL HC-C2YR-1BF/F7666A	76 2550	2	F		76.3	-3.4	72.9		GL
BELLANCA 8GCBC SCOUT	2.2 2.2	1 LYCOMING O-360-C2A/-C2E	149 2700 2	MCCAULEY 1A200/HFA	80 2550	2	F	113	76.3	-3.5	72.8		GL
BELLANCA 8KCAB DECATHLON	1.8 1.8	1 LYCOMING AEIO-320-E1B	150 2700 2	HARTZELL HC-C2YL-4F/FC7663-4	72 2800	2	V		72.2	-2.2	70.0		GL
BELLANCA 8KCAB DECATHLON	1.8 1.8	1 LYCOMING AEIO-320-E2B	150 2700 2	SENSENICH 74DM6S8-0	74 2800	2	F		72.2	-3.0	69.2		GL
BELLANCA 8KCAB DECATHLON	1.8 1.8	1 LYCOMING AEIO-360-H1A	180 2700 2	HARTZELL HC-C2YR-4CF/FC7666A-2	74 2900	2	V	122	72.2	-5.0	67.2		GL
BRITISH AEROSPACE JETSTREAM 31	14.6 14.6	2 AIRESEARCH TPE-331-10U-501	900 R333/4-82-F/12	DOWTY ROTOL	106 1591	4	V		74.4	-3.5	70.9	1	BA
BRITISH AEROSPACE JETSTREAM 31	15.2 14.6	2 GARRETT TPE-331-10 UF/R	940 R333/4-82-F/12	DOWTY ROTOL	106 1591	4	V		74.4	-2.4	72.0	1	BA
CESSNA 152 MODEL 152	1.7 1.7	1 LYCOMING O-235-L2C	110 2550 8	MCCAULEY 1A102/TCM6955	69 2550	2	F	101	65.8	-1.0	64.8		S-1
CESSNA 152/A152 MODEL 152	1.7 1.7	1 LYCOMING O-235-L2C	110 2550 8	MCCAULEY 1A103/TCM6958	69 2550	2	F	104	66.7	-0.4	66.3		CE,S-1

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	B L A D E S	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA 172N (LAND) SKYHAWK	2.3 2.3	1 LYCOMING O-320-H2AD	160 2700 8	MCCAULEY 1C160/DTM 7557	75 2700	2	FI	115	74.3	-0.5	73.8		CE,G-1
CESSNA 172N (SEA) SKYHAWK	2.2 2.2	1 LYCOMING O-320-H2AD	160 2700 8	MCCAULEY 1A175/ETM8042	80 2700	2	FI	91	73.6	-1.4	72.2		CE,G-1
CESSNA 172P SKYHAWK	2.4	1 LYCOMING O-320-D2S	160 2700 8	MCCAULEY 1C160/DTM7557	75 2700	2	FI	115	74.3	-0.5	73.8		G-3
CESSNA 172RG SKYHAWK RG	2.7 2.7	1 LYCOMING O-360-F1A6	180 2700 8	MCCAULEY B2D34C220/80VLA-3.5	76 2700	2	VI	136	73.4	0.5	73.9		CE,G-1
CESSNA 177B CARDINAL	2.5 2.5	1 LYCOMING IO-360-A1F6D	190 2700 8	MCCAULEY B2D34C211/82PCA-6	76 2700	2	VI	124	72.0	-0.3	71.7		CE,G-1
CESSNA 177RG CARDINAL RG	2.8	1 LYCOMING IO-360-A1B6D	200 2700 8	MCCAULEY B2D34C207/7BTCA-0	78 2700	2	VI	139	76.3	-0.7	75.6		CE,G-1
CESSNA 180K (AMPHIB) SKYWAGON	3.0 3.0	1 TCM O-470-U	230 2400 8	MCCAULEY C2A34C204/90DCA-2	88 2400	2	VI	123	74.0	-2.2	71.8		CE,G-2,S-1
CESSNA 180K (LAND) SKYWAGON	2.8 2.8	1 TCM O-470-U	230 2400 8	MCCAULEY C2A34C204/90DCB-0	90 2400	2	VI	140	73.0	-3.0	70.0		CE,G-2,S-1
CESSNA 182Q SKYLANE	3.0 3.0	1 TCM O-470-U	230 2400 8	MCCAULEY D2A34C203/90DCA-8	82 2400	2	VI	138	72.0	-2.9	69.1		CE,G-2,S-1
CESSNA 182R SKYLANE	3.1	1 TCM O-470-V	230 2400 8	MCCAULEY D2A34C203/90DCA-8	82 2400	2	VI	139	72.0	-2.9	69.1		G-3

APPENDIX .
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SMP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	B IL IE IS	P A D C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA 207A SKYWAGON	3.8 3.8	1 TCM IO-520-F	285 2700 8	MCCAULEY D3A32C404/80VA-0	80 2700	3	V	139	79.0	0.8	79.8		CE,S-1
CESSNA 207A STATIONAIR	3.8 3.8	1 TCM IO-520-F	285 2700 8	MCCAULEY D3A32C90/82NC-2	80 2700	3	V	138	77.8	-0.1	77.7		A-1,S-1
CESSNA 208 CARAVAN I	7.3 7.3	PRATT&WHITNEY PT6A-114	600 1900 2	HARTZELL HC-B3MN-3	100 1900	3	V	159	72.8	-1.1	71.7		CE
CESSNA 208 CARAVAN I	8.0 7.8	PRATT&WHITNEY PT6A-114	600 1900 2	HARTZELL HC-B3MN-3	100 1900	3	V	159	72.8	0.7	73.5		CE
CESSNA 208A CARAVAN I	8.0 7.8	PRATT&WHITNEY PT6A-114	600 1900 2	HARTZELL HC-B3MN-3	100 1900	3	V	159	72.8	0.7	73.5		CE
CESSNA 208B CARAVAN I	8.8 8.5	PRATT&WHITNEY PT6A-114	600 1900 2	HARTZELL HC-B3MN-3	100 1900	3	V	159	72.8	2.3	75.1		CE
CESSNA 210M CENTURION	3.8 3.8	1 TCM IO-520-L-3A	285 2700 8	MCCAULEY D3A34C404/80VA-0	80 2700	3	V	163	79.6	0.3	79.9		G-3
CESSNA 210N CENTURION	3.8 3.8	1 TCM IO-520-L-3A	285 2700 8	MCCAULEY D3A34C404/80VA-0	80 2700	3	V	163	79.6	0.0	79.6		CE,G-2
CESSNA 210R CENTURION	3.8 3.8	1 TCM IO-520-L	285 2700 8	McCAULEY D3A34C404/80VA-0	80 2700	3	V	163	79.6	-0.6	79.0		CE
CESSNA 310R	5.5 5.4	2 TCM IO-520-M	285 2700 8	MCCAULEY 3AF32C87/82NC-5.5	77 2700	3	V	184	82.0	-2.9	79.1		G-1,S-1

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN SMALL AIRCRAFT

AIRCRAFT MAKE MODEL POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA 335	6.0 6.0	2 TCM TSIO-520-EB	300 2700 4	MCCAULEY 3AF32C87/82NC-5.5	77 2700	3	V	182	79.6	-1.5	78.1		G-1,S-1
CESSNA 337H SKYMASTER	4.6 4.4	2 TCM TSIO-360-C	195 2600 8	MCCAULEY D2AF34C310/90DEA-12 (F)	78 2600	2	V	149	78.6	1.3	79.9		CE,S-1
CESSNA 337H SKYMASTER	4.6 4.4	2 TCM TSIO-360-C	195 2600 8	MCCAULEY D2AF34C307/L78CBA-2 (R)	76 2600	2	V	149	78.6	1.3	79.9		CE,S-1
CESSNA 340A	6.0 6.0	2 TCM TSIO-520-N	310 2700 3	MCCAULEY 3AF32C93/82NC-5.5	77 2700	3	V	195	83.4	-3.7	79.7		S-1
CESSNA 340A	6.0 6.0	2 TCM TSIO-520-N	310 2700 4	MCCAULEY 3AF32C93/82NC-5.5	76 2700	3	V	200	82.0	-5.5	76.5		G-1,S-1
CESSNA 402B BUSINESS LINER	6.8 6.8	2 TCM TSIO-520-E	300 2700 3	MCCAULEY 3AF32C87M/82NC-5.5	76 2700	3	V	181	81.6	-2.8	78.8		S-1
CESSNA 402C BUSINESS LINER	6.8 6.8	2 TCM TSIO-520-UB	325 2700 4	MCCAULEY 3AF32C92N/82NC-6.5	76 2700	3	V	182	80.8	-2.2	78.6		S-1
CESSNA 402C BUSINESS LINER	6.8 6.8	2 TCM TSIO-520-VB	310 2600 4	MCCAULEY 3AF32C93/82NC-5.5	77 2600	3	V	190	77.2	-2.1	75.1		CE,S-1
CESSNA 404 TITAN	8.4 8.1	2 PRATT&WHITNEY PT6A-34	550 2000 4	HARTZELL HC83TN-3B/T10173-8R	93 2000	3	V		81.1	-5.0	76.1		SW
CESSNA 404 TITAN	8.4 8.1	2 TCM GTSIO-520-M	375 3350 4	MCCAULEY 3FF32C501/90UMB-0	90 3350	3	V	185	81.6	-2.7	78.9		G-1,S-1

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE MODEL POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA 406 CARAVAN II	9.4 9.4	2 PRATT&WHITNEY PT6A-112	500 1900 1	MCCAULEY 3GFR34C701/93KB-0	93 1900	3	V	213	75.0	-3.0	72.0	6/88	CE
CESSNA 414A CHANCELLOR	6.8 6.8	2 TCM TSIO-520-N	298 2600 4	MCCAULEY 3AF32C93/82NC-5.5	77 2600	3	V	181	79.1	-2.5	76.6		G-1,S-1
CESSNA 421C GOLDEN EAGLE	7.4 7.2	2 TCM GTSIO-520-L	375 3350 4	MCCAULEY 3FF32C501/90UMB-0	90 3350	3	V	196	80.3	-3.6	76.7		G-1,G-1
CESSNA 425 CONQUEST I	8.2 8.0	2 PRATT&WHITNEY PT6A-112	450 1900 4	HARTZELL HC-B3TN-3C/T10178B-8R	93 1900	3	V	210	75.7	-4.3	71.4		G-1,S-1
CESSNA 425 CONQUEST I	8.2 8.0	2 PRATT&WHITNEY PT6A-112	450 1900 4	MCCAULEY 36FR34C701/93KB-0	93 1900	3	V	210	75.7	-4.3	71.4		CE
CESSNA 425 CONQUEST I	8.6 8.0	2 PRATT&WHITNEY PT6A-112	450 1900 4	HARTZELL HC-B3TN-3C/T10178B-8R	93 1900	3	V	210	75.7	-3.4	72.3		CE
CESSNA 441 CONQUEST II	9.9 9.4	2 AIRESEARCH TPE-331-8-401S	636 1990 4	HARTZELL HC-B3TN-5E/T10178-11	90 1990	3	V	210	78.0	-4.0	74.0		G-2,S-1
CESSNA 441 CONQUEST II	9.9 9.4	2 AIRESEARCH TPE-331-8-401S	636 1990 4	MCCAULEY 36FR34C601/93JA	90 1990	3	V	210	78.0	-4.0	74.0		CE
CESSNA A185F (AMPHIB) SKYWAGON	3.3 3.1	1 TCM IO-520-D	285 2700 8	MCCAULEY D3A34C403/80VA-0	80 2700	3	V	126	78.9	-1.2	77.7		CE
CESSNA A185F (FLOAT) SKYWAGON	3.3 3.3	1 TCM IO-520-D-24	285 2700 8	MCCAULEY D3A32C90/82NC-2	80 2700	3	V	126	78.9	-1.0	77.9		CE,G-2

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BL / AD / ES	PI / IT / CH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA A185F (LAND) SKYWAGON	3.3 3.3	1 TCM IO-520-D	285 2700 8	MCCAULEY D3A34C403/80VA-0	80 2700	3	VI	142	78.9	-1.0	77.9		CE,G-2,G-1
CESSNA A188B AG TRUCK	3.3 3.3	1 TCM IO-520-D	260 2700 8	MCCAULEY D3A32C408/82NDA-2	80 2700	3	VI	117	77.3	-1.5	75.8		CE
CESSNA P210N CENTURION(PRESS	4.0 3.8	1 TCM TSIO-520-P	285 2600 4	MCCAULEY D3A34C402/90DFA-10	80 2600	3	VI	174	77.1	0.9	78.0		CE,G-2
CESSNA P210N ADVANCED SPIRIT 750	4.0	1 PRATT&WHITNEY PT6A-135	450 2	HARTZELL HC-83TN-3C/T10282K-25-5Q	77 1900	3	VI	233	68.7	-2.0	66.8		NM
CESSNA P210R PRESS CENTURION	4.1 4.1	1 TCM TSIO-520-CE	325 2700 4	McCAULEY D3A36C410/80VMB-0	80 2700	3	VI	174	80.2	-0.8	79.4		CE
CESSNA P337H PRESS.SKYMASTER	4.7 4.4	2 TCM TSIO-360-C	208 2600 4	MCCAULEY D2AF34C308/90DEA-12 (F)	78 2600	2	VI	178	80.8	-1.1	79.7		CE,G-2
CESSNA P337H PRESS SKYMASTER	4.7 4.4	2 TCM TSIO-360-C	208 2600 4	MCCAULEY D2AF34C305/L78CBA-2 (R)	76 2600	2	VI	178	80.8	-1.1	79.7		CE,G-1
CESSNA R172K (LAND) HAWK XP	2.5 2.5	1 TCM IO-360-K	195 2600 8	MCCAULEY 2A34C203/90DCA-14	76 2600	2	VI	127	74.7	-0.6	74.1		CE,G-2,G-1
CESSNA R172K (SEA) HAWK XP	2.5 2.5	1 TCM IO-360-K	195 2600 8	MCCAULEY 2A34C203/90DCA-10	80 2600	2	VI	113	76.4	-1.4	75.0		CE,G-1
CESSNA R182 SKYLANE RG	3.1 3.1	1 LYCOMING O-540-J3C50	235 2400 8	MCCAULEY B3D32C407/82NDA-3	79 2400	3	VI	152	70.3	-2.0	68.3		G-1,G-1

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	B L A D E S	P I T C H	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA R182 SKYLANE RG	3.1 3.1	1 LYCOMING O-540-J3C5D	235 2400 8	MCCAULEY B2D34C214/90DHB-8	82 2400	2	V	146	72.7	-2.0	70.7		CE,G-1
CESSNA T182 TURBO SKYLANE	3.1 3.1	1 LYCOMING O-540-L3C5D	235 2400 4	MCCAULEY B3D32C407/82NDA-3	79 2400	3	V	141	69.5	-0.7	68.8		G-1,S-1
CESSNA T182 TURBO SKYLANE	3.1 3.1	1 LYCOMING O-540-L3C5D	235 2400 4	MCCAULEY B2D34C219/90DHB-8	82 2400	2	V	140	73.2	-0.7	72.5		G-1,S-1
CESSNA T207A TURBOSTATIONAIR	3.8 3.8	1 TCM TSIO-520-G-1A	285 2600 4	MCCAULEY 3A32C401/90DFA-10	80 2600	3	V	140	77.9	-1.6	76.3		CE,G-2,S-1
CESSNA T210M TURBO CENTURION	3.8 3.8	1 TCM TSIO-520-H-4A	285 2600 4	MCCAULEY D3A34C-102/90DFA-10	80 2600	3	V	172	77.4	-1.6	75.8		G-3
CESSNA T210N TURBO CENTURION	4.0 3.8	1 TCM TSIO-520-R	285 2600 4	MCCAULEY D3A34C402/90DFA-10	80 2600	3	V	172	77.4	0.0	77.4		CE,G-2
CESSNA T210R TURBO CENTURION	4.1 4.1	1 TCM TSIO-520-CE	325 2700 4	McCAULEY D3A36C410/80VMB-0	80 2700	3	V	174	80.2	-0.8	79.4		CE
CESSNA T303 CRUSADER	5.2 5.0	2 TCM TSIO-520-AE	250 2400 4	MCCAULEY 3AF32C506/82NEB-8	74 2400	3	V	176	76.5	-2.2	74.3		CE
CESSNA T310R TURBO 310R	5.5 5.4	2 TCM TSIO-520-BB	285 2700 4	MCCAULEY 3AF32C87/82NC-4	78 2700	3	V	185	80.9	-3.2	77.7		G-1,S-1
CESSNA T337H TURBO SKYMASTER	4.6 4.4	2 TCM TSIO-360-H	195 2600 4	MCCAULEY D2AF34C305/L78CBA-2 (R)	76 2600	2	V	165	79.4	-1.0	78.4		CE,G-2,S-1

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	B L A D E S	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CESSNA T337H TURBO SKYMASTER	4.6 4.4	2 TCM TSIO-360-H	195 2600 4	MCCAULEY D2AF34C308/90DEA-12 (F)	78 2600	2	V	165	79.4	-1.0	78.4		CE,G-1
CESSNA TR182 TURBOSKYLANE RG	3.1 3.1	1 LYCOMING O-540-L3C5D	235 2400 4	MCCAULEY B3D32C407/82NDA-3	79 2400	3	V	155	70.6	-1.2	69.4		G-1,S-1
CESSNA TR182 TURBOSKYLANE RG	3.1 3.1	1 LYCOMING O-540-L3C5D	235 2400 4	MCCAULEY B2D34C217/90DHB-8	82 2400	2	V	143	73.8	-1.2	72.6		CE,G-2,S-1
CESSNA TU206G TURBOSTATIONAIR	3.6 3.6	1 TCM TSIO-520-M	285 2600 4	MCCAULEY D3A34C402/90DFA-10	80 2600	3	V	145	78.5	-3.1	75.4		CE,S-1
CESSNA TU206G (AMPHIB) TURBOSTATIONAIR	3.6 3.6	1 TCM TSIO-520-M	285 2600 4	MCCAULEY D3A34C402/90DFA-10	80 2600	3	V	125	78.0	1.2	79.2		CE,S-1
CESSNA U206G STATIONAIR	3.6 3.6	1 TCM IO-520-F	285 2700 8	MCCAULEY D3A34C404/80VA-0	80 2700	3	V	137	77.9	-0.4	77.5		CE,S-1
CESSNA U206G (LAND) STATIONAIR	3.6 3.6	1 TCM IO-520-F-9	285 2700 8	MCCAULEY D3A34C404/80VA-0	80 2700	3	V	144	79.8	-0.4	79.4		CE
CESSNA U206G(SEAPLANE) STATIONAIR	3.5 3.5	1 TCM IO-520-F	285 2700 8	MCCAULEY D3A34C404/80VA-0	80 2700	3	V	133	80.2	-0.8	79.4		G-1
CLASSIC AIRCRAFT WACO F5 CLASSIC WACO	2.7 2.7	 JACOBS R-755B2M	245 2050	SENSENICH W96JA72	96 2050	2	F	120	75.1	-2.3	72.8		CE
CLASSIC AIRCRAFT WACO F5 CLASSIC WACO	2.8 2.8	 JACOBS R-755B2M	275 2200	SENSENICH W90T6JA72	90 2200	2	F	124	76.3	-0.7	75.6		CE

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AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER / MAKE / MODEL	SHP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	B L A D E S	P I T C H	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
CURTISS-WRIGHT TRAVEL AIR 4000 -	2.5 2.5	1 LYCOMING R-680E3B	225 2050 2	HAMILTON STD 2B20/6135A	102 2050	2	F	130	75.2	-1.6	75.6		GL
DORNIER 228-100	12.5 12.5	2 GARRETT TPE331-5-252D	715	HARTZELL HC-B4TN-5ML/LT	106	4					71.5		NM
EMBRAER EMB-110 BANDEIRANTE	12.5 12.0	2 PRATT&WHITNEY PT6A-34	750 2200	HARTZELL HC-BT3N-3C/T10178H-BR	93 2002	3	V	217	78.7	-1.4	77.3		SD
FAIRCHILD SA226-T(B) MERLIN IIIB	12.5 12.5	2 AIRESEARCH TPE331-10U-501G	900 4173 4	HARTZELL HC-B4TN-5EL/LT10282AB+2.5	106 1591	4	V	275	77.4	-4.6	72.8		SW
FAIRCHILD SA226TC METRO II	12.5 12.5	2 AIRESEARCH TPE331-3UW-303G	632 1920 4	HARTZELL HC83 TN-5/T10282HB	102 1920	3	V	239	83.6	-3.8	79.8		SW
FAIRCHILD SA227-AC METRO III	12.5 12.5	2 AIRESEARCH TPE331-11U-601G	1000 4173 4	DOWTY ROTOL (C)R321/4-82-F/8	106 1591	4	V	250	76.7	-4.8	71.9		SW
FAIRCHILD SA227-AC METRO III	14.0 14.0	2 AIRESEARCH TPE331-11U-601G	1000 4173 4	DOWTY ROTOL (C)R321/4-82-F/8	106 1591	4	V	250	76.7	-2.2	74.5	1	SW
FAIRCHILD SA227-AC	14.5	2 GARRETT TPE331-11	1000	DOWTY-ROTOL R321/4-82-F/8	106 1591	4	F		76.7	-1.9	74.8	1	NM
FAIRCHILD SA227-AC	16.0	2 GARRETT TPE331-11	1000	DOWTY-ROTOL R321/4-82-F/8	106 1591	4	F		76.7	0.0	77.7	1	NM
FAIRCHILD SA227-AT MERLIN IVC	12.5 12.5	2 AIRESEARCH TPE331-11U-601E	1000 4173 4	DOWTY ROTOL (C)R321/4-82-F/8	106 1591	4	V	250	76.7	-4.8	71.9		SW

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	BLADES / TYPE / CONTROL	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
FAIRCHILD SA227-AT MERLIN IVC	14.0 14.0	2 AIRESEARCH TPE331-11U-601G	1000 4173 4	DOWTY ROTOL (C)R321/4-82-F/8	106 1591	4 VS	250	76.7	-2.2	74.5	1	SW
FAIRCHILD SA227-TT MERLIN IIIC	12.5 12.5	2 AIRESEARCH TPE331-10U-503G	900 4173 4	DOWTY ROTOL (C)R324/4-82-F/9	106 1591	4 VS	275	77.4	-4.6	72.8		SW
FAIRCHILD SA227-TT MERLIN IIIC	13.2 13.2	2 AIRESEARCH TPE331-10U-503G	900 4173 4	DOWTY ROTOL (C)R324/4-82-F/9	106 1591	4 VS	275	77.4	-4.1	73.3	1	SW
FUJI HEAVY IND. 700 -	6.8 6.6	2 LYCOMING T10-540-R2AD	340 2500 4	HARTZELL HC-E3YR-2ATF/FC8468-5R	79 2500	3 VS	190	80.8	-3.2	77.6		NM
FUJI HEAVY IND. 710 -	8.3 8.3	2 LYCOMING TIGO-541-D1B	450 2133 4	HARTZELL HC-C3YN-2LDUF/FJC-9684-3R	93 2133	3	201	82.7	-3.3	79.4		NM
GULFSTREAM AMERICAN 112B COMMANDER	2.8 2.8	1 AVCO LYCOMING IO-360-C1D6	200 2700 3	HARTZELL HC-E2YR-1BF/FB8467-7R	77 2700	2 VS	133	75.1	-0.5	74.6		SW
GULFSTREAM AMERICAN 112TC COMMANDER	2.8 2.8	1 AVCO LYCOMING TO-360-C1A6	210 2575 4	HARTZELL HC-E2YR-1BF/FB8467-7R	77 2575	2 VS	145	76.1	-1.3	74.8		SW
GULFSTREAM AMERICAN 112TCA COMMANDER	3.0 3.0	1 AVCO LYCOMING TO-360-C1A6	210 2575 4	HARTZELL HC-E2YR-1BF/FB8467-7R	77 2575	2 VS	145	76.1	-1.3	74.8		SW
GULFSTREAM AMERICAN 114 COMMANDER	3.1 3.1	1 AVCO LYCOMING IO-540-T4A5D	260 2700 3	HARTZELL HC-C2YR-1BF/FB8467-7R	77 2700	2 VS	150	79.7	-1.2	78.5		SW
GULFSTREAM AMERICAN 114A COMMANDER	3.3 3.1	1 AVCO LYCOMING IO-540-T4B5D	260 2700 3	MCCAULEY B3D34CA405/90DFA-13	77 2700	3 VS	150	79.7	-1.2	78.5		SW

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW / LW (LBS/ 1000)	ENGINE NUMBER / MAKE / MODEL	HP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BLADES / IDENT / CLASS	PROP TYPE	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
GULFSTREAM AMERICAN 690 TURBOCOMMANDER	10.3 9.6	2 AIRESEARCH TPE331-5-251K	700 1591 4	HARTZELL HC-B3TN-5FLLT10282H+4	106 1591	3 V	243	76.4	-5.0	71.4		G-3
GULFSTREAM AMERICAN 690A TURBOCOMMANDER	10.3 9.6	2 AIRESEARCH TPE331-5-251K	700 1591 4	HARTZELL HC-B3TN-5FLLT10282H+4	106 1591	3 V	243	76.4	-5.0	71.4		G-3
GULFSTREAM AMERICAN 690B TURBOCOMMANDER	10.3 9.7	2 AIRESEARCH TPE331-5-251K	700 1591 4	HARTZELL HC-B3TN-5FLLT10282H+4	106 1591	3 V	243	76.4	-5.0	71.4		G-3
GULFSTREAM AMERICAN 690C 840	10.3 9.7	2 AIRESEARCH TPE331-5-254K	700 1591 4	DOWTY ROTOL (C)R306/3-82-F/7(C)VP2926	106 1591	3 V	243	76.4	-5.0	71.4		G-3
GULFSTREAM AMERICAN 6900 (900)	10.7 10.6	2 AIRESEARCH TPE331-5-254K	737 2730 4	DOWTY ROTOL (C)R306/3-82-F/7(C)VP2926	106 1591	3 V	245	76.4	-5.0	71.4		SW
GULFSTREAM AMERICAN 695 (980)	10.3 9.7	2 AIRESEARCH TPE331-10-501K	700 1591 4	DOWTY ROTOL (C)R306/3-82-F/7(C)VP2926	106 1591	3 V	243	76.4	-5.0	71.4		G-3
GULFSTREAM AMERICAN 695A (1000)	11.2 10.6	2 AIRESEARCH TPE-331-10-501K	700 1591 4	DOWTY ROTOL (C)R306/3-82-F/7(C)VP2926	106 1591	3 V	252	71.8	0.0	71.8		G-3
GULFSTREAM AMERICAN 700 COMMANDER	6.9 6.6	2 AVCO LYCOMING TIO-540-R2AD	340 2500 4	HARTZELL HC-E3YR-2AFT/FC8468SR	79 2500	3 V	175	77.8	-2.4	75.4		SW
GULFSTREAM AMERICAN AA-1B T-CAT	1.5 1.5	1 LYCOMING O-235-C2C	108 2600 7	MCCAULEY SCM1A105/7154	71 2600	2 F	109	66.7	1.1	67.8		SD
GULFSTREAM AMERICAN AA-1B T-CAT	1.5 1.5	1 LYCOMING O-235-C2C	108 2600 7	MCCAULEY SCM1A105/7157	71 2600	2 F	109	66.3	0.6	66.9		SD

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AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
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AIRCRAFT MAKE MODEL POPULAR NAME	MTOM LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BL AD ES	PI TC HC	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
GULFSTREAM AMERICAN	1.6	1	115	SENSENICH	71	2	FI	111	68.3	0.5	68.8		SD
AA-1C	1.6	LYCOMING	2700	72CK-0-56	2700								
T-CAT		O-235-L2C	7										
GULFSTREAM AMERICAN	3.8	2	160	HARTZELL	73	2	VI	160	74.2	-2.2	72.0		SD
GA-7	3.8	LYCOMING	2700	F2YL-2VFFC7663D-3	2700								
COUGAR		O-320-D1D											
MAULE	2.3	1	175	HARTZELL	76	2	VI		72.3	0.0	72.3		SD
M-5-180C/-180TC	2.3	LYCOMING	2700	HC-C2YR-1BF/F7666A	2700								
		O-360-C1F	3										
MAULE	2.3	1	190	HARTZELL	77	2	VI	135	73.3	0.0	73.3		SD
M-5-200	2.3	LYCOMING	2600	HC-E2YR-1BF/FB468A-6R	2600								
		IO-360-J1A6D	3										
MAULE	2.3	1	210	HARTZELL	74	2	VI		74.6	-1.0	73.6		SD
M-5-210TC	2.3	LYCOMING	2575	HC-E2YR-1BF/FB467-7R	2575								
LUNAR ROCKET		IO-360-C1A-6D											
MAULE	2.8	1	235	HARTZELL	81	2	VI	140	74.7	0.9	75.6		SD
M-5-235	2.8	LYCOMING	2400	HC-C2YR-1BF/FB468A-3R	2400								
		O-540-J1A5D	3										
MAULE	2.3	1	235	HARTZELL	78	2	VI		72.6	-5.0	67.6		SD,A-1
M-5-235C	2.3	LYCOMING	2400	HC-C2YR-1BF/FB468A-6R									
LUNAR ROCKET		O-540-J1A5D/-W1A5D											
MAULE	2.3	1	175	HARTZELL	76	2	VI	90	70.9	0.9	71.8		SD
M-6-180	2.3	LYCOMING	2600	HC-C2YR-1BF/F7666A	2600								
		O-360-C1F	3										
MAULE	2.3	1	235	HARTZELL	78	2	VI		72.6	-5.0	67.6		SD
M-6-235	2.3	LYCOMING	2400	HC-E2YR-1BF/FB468A-6R	2400								
		O-540-J1A5D/-W1A5D											
MAULE		1		HARTZELL	81	2		117	74.7	-2.5	72.2		CE
M-7-235		LYCOMING	2400	HC-C2YR-1BF/FB468A-3R	2400								
		O-540-J1A5D	3										

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AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BLADES / ADJ / CTRL / HUB	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
MAULE M-7-235		1 LYCOMING O-540-J1A5D	235 2400 3	HARTZELL HC-C2YR-1BF/F8468A-6R	78 2400	2	137	72.6	-0.3	72.3		CE
MITSUBISHI MU-2B-40	10.5 10.0	2 AIRESEARCH TPE331-10-501	665 4173 4	HARTZELL HC-B4TN-5DL/LT10282HB-5.3R	98 1591	4 VI	250	77.4	-2.9	74.8		SW
MITSUBISHI MU-2B-60	11.6 11.6	2 AIRESEARCH TPE331-10-501M	715 4273 4	HARTZELL HC-B4TN-5DL/LT10282HB-5.3R	98 1591	4 VI	250	77.7	-1.4	76.5		SW
MOONEY M20J 201	2.7 2.7	1 LYCOMING IO-360-A3B6D	192 2700	MCCAULEY B2D34C212/78CDA-4	74 2700	2 VI	178	75.3	-1.3	74.0		SW
MOONEY M20L MOONEYPFM	2.9 2.9	PORSCHE PFM3200N03	7	HARTZELL BHC-J2YF-1C/B7421	74	3 VI				76.6		SW
MOONEY AIRCRAFT M20K MOONEY 231	2.9 2.9	1 TELEDYNE TSIO-360-GB1	210 2700 4	MCCAULEY 2A34C216/90DHB-16E	74 2700	2 VI	198	76.6	-1.1	75.4		SW
PIPER PA-18-150 SUPER CUB	1.8 1.8	1 LYCOMING O-320-A2B	150 2700 7	SENSENICH M74DM6-0-56	74 2700	2 FI	120	69.0	-3.1	65.9		EA,P-1
PIPER PA-23-250 AZTEC F	5.2 4.9	2 LYCOMING IO-540-C4B5	250 2575 6	HARTZELL HC-E2YR-2BA65-7R	77 2575	2 VI	178	76.8	-1.1	75.7		EA,P-1
PIPER PA-23T-250 AZTEC F	5.2 4.9	2 LYCOMING TIO-540-C1A	250 2575 4	HARTZELL HC-E2YR-2BA65-7R	77 2575	2 VI	178	77.0	-0.8	76.2		EA,P-1
PIPER PA-28-161 WARRIOR II	2.3 2.3	1 LYCOMING O-320-D3G	160 2700 5	SENSENICH 74DM6-0-60	74 2700	2 FI	115	71.4	0.6	72.0		SD,P-1

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AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
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AIRCRAFT MAKE MODEL POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
PIPER PA-28-181 ARCHER II	2.5 2.5	1 LYCOMING O-360-A4M	180 2700 5	SENSENICH 76EM8S5-062	76 2700	2	F	129	73.4	0.5	73.9		SD,P-1
PIPER PA-28-236 DAKOTA	3.0 3.0	1 LYCOMING O-540-J3A5D	235 2400 5	HARTZELL HC-F2YR-1F/F8468A-4R	80 2400	2	V	148	72.5	0.4	72.9		SD,P-1
PIPER PA-28R-200 ARROW II	2.7 2.7	1 LYCOMING IO-360-CIC	200 2700	SENSENICH	74 2700	2	V	184	75.5	0.0	75.5		SD
PIPER PA-28R-201T TURBO ARROWII	2.9 2.9	1 LYCOMING TSIO-360-FB	200 2575 2	HARTZELL PHC-C3YF-1F/7663-2R	76 2575	2	V	144	69.1	0.5	69.6		SD
PIPER PA-28RT-201 ARROW IV	2.8 2.8	1 LYCOMING IO-360-C1C6	200 2700 5	MCCAULEY B2D34213/90DHA-16	74 2700	2	V	138	74.4	1.1	75.5		SD,P-1
PIPER PA-28RT-201T TURBO ARROW IV	2.9 2.9	1 CONTINENTAL TSIO-360-F	200 2575 2	HARTZELL BHC-C2YF-1F/F8459A-8R	76 2575	2	V	146	69.1	0.3	69.4		SD,P-1
PIPER PA-28RT-201T TURBO ARROW IV	2.9 2.9	1 CONTINENTAL TSIO-360F	200 2575 4	HARTZELL PHC-C3YF-1F/F7663-2R	76 2575	3	V	146	72.5	0.3	72.8		SD,P-1
PIPER PA-31 NAVAJO	6.5 6.5	2 LYCOMING TIO-540-2AC	275 2400 4	HARTZELL HC-E3YR-2ATF FC8468-6R	80 2400	3	V	186	77.0	-1.6	75.4		P-1
PIPER PA-31-325 NAVAJO C/R	6.5 6.5	2 LYCOMING TIO-540-F2BD	275 2400 4	HARTZELL HC-E3YR-2ATF FC8468-6R	80 2400	3	V		78.0	-1.1	76.9		P-1
PIPER PA-31-350 CHIEFTAIN	7.0 7.0	2 LYCOMING TIO-540-J2BD	315 2400 4	HARTZELL HC-E3YR-2ATF FC8468-6R	80 2400	3	V	175	78.0	0.9	78.9		P-1

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AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
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AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW / LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
PIPER PA-31P COMANCHERO	7.8 7.8	2 PRATT&WHITNEY PT6A-135	620 3810 4	HARTZELL HC-B3TN-3C/T10178-8R	93 1900	3	V	215	76.5	-5.0	71.5		SW
PIPER PA-31T CHEYENNE II	9.0 9.0	2 PRATT&WHITNEY PT6A-28	620 3810 4	HARTZELL HC-B3TN-3B/T-10173B-8	93 2000	3	V	231	79.2	-5.0	74.2		EA
PIPER PA-31T-62 CHEYENNE II	9.0 9.0	2 PRATT&WHITNEY PT6A-28	620 3810 4	HARTZELL HC-BTN-3B	93 2000	3	V	231	78.2	-4.0	74.2		SD
PIPER PA-31T1 CHEYENNE II	8.7 8.7	2 PRATT&WHITNEY PT6A-11	455 3810 4	HARTZELL HC-B3TN-3B/T-10173B-8	93 2000	3	V	206	76.6	-1.6	75.0		EA,P-1
PIPER PA-31T2 CHEYENNE II XL	9.5 	2 PRATT&WHITNEY PT6A-135	620 3810 4	HARTZELL HC-B3TN-3B/T-10173B-8	93 1900	3	V	231	79.2	-2.1	77.1		P-1
PIPER PA-31T3 T-1040	9.0 	2 PRATT&WHITNEY PT6A-11	455 3810 1	HARTZELL HC-B3TN-3B/T-10173K-8R	93 2200	3	V	214	76.6	-1.0	75.6		NE
PIPER PA-32-300 CHEROKEE SIX	3.4 3.4	1 LYCOMING IO-540-K1A5	300 2700 	HARTZELL HC-C2YR-1( )F/F8475D-4	80 2700	2	V		80.5	-1.2	79.3		SD,A-1
PIPER PA-32-301 SARATOGA	3.6 3.6	1 LYCOMING IO-540-K1B5	300 2700 5	HARTZELL HC-C3YR-1( )F/F7663R-0	78 2700	3	V	152	78.1	-0.6	77.5		P-1
PIPER PA-32-301 SARATOGA	3.6 3.6	1 LYCOMING IO-540-K1B5D	294 2600 5	HARTZELL HC-C2YR-1( )F/F8475D-4	80 2600	2	V	152	77.3	-0.6	76.7		P-1
PIPER PA-32-301T TURBO SARATOGA	3.6 3.6	1 LYCOMING TIO-540-S1AD	300 2700 4	HARTZELL HC-E3YR-1( )F/F7673DR	78 2700	3	V	158	76.1	-1.3	74.8		P-1

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP RPM EXH	PROPELLER MAKE / MODEL	DIAM (IN) RPM	BL AD ES	PI IT CH	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
PIPER	3.6	1	294	HARTZELL	80	2	VI	158	75.7	-1.3	74.4		P-1
PA-32-301T	3.6	LYCOMING	2575	HC-E2YR-1( )F/F8477-4	2575								
TURBO SARATOGA		TIO-540-S1AD	4										
PIPER	3.6	1	300	HARTZELL	78	3	VI	152	78.1	0.3	78.4		P-1
PA-32R-301	3.6	LYCOMING	2700	HC-C3YR-1( )F/F7663R-0	2700								
SARATOGA SP		IO-540-K1G5D	5										
PIPER	3.6	1	294	HARTZELL	80	2	VI	152	77.3	0.3	77.6		P-1
PA-32R-301	3.6	LYCOMING	2600	HC-C2YR-1( )F/F8475D-4	2600								
SARATOGA SP		IO-540-K1G5D	5										
PIPER	3.6	1	294	HARTZELL	80	2	VI	158	75.7	0.4	76.1		P-1
PA-32R-301T	3.6	LYCOMING	2575	HC-E2YR-1( )F/F8477-4	2575								
TURBO SARATOGA		TIO-540-SAID	4										
PIPER	3.6	1	300	HARTZELL	80	2	VI		75.4	0.0	75.4		SD
PA-32RT-300	3.6	LYCOMING	2700	HC-E2YR-1BF/F8477-4	2400								
TURBO LANCE II		IO-540-S1AD											
PIPER	4.6	2	200	HARTZELL	76	2	VI	170	75.7	-2.2	73.5		SD
PA-34-200T	4.3	LYCOMING	2575	FCC8459-8R/FJC8459-8R	2575								
SENECA II		TS10-360-E	4										
PIPER	4.6	2	200	MCCAULEY	76	3	VI	169	78.6	-2.2	76.4		SD
PA-34-200T	4.3	TELEDYNE	2575	B0HA-4/L80HA-4	2575								
SENECA II		TS10-360-E/EB	4										
PIPER	4.7	2	200	MCCAULEY	76	3	VI	169	77.0	-2.8	74.2		SD,P-1
PA-34-220T	4.5	CONTINENTAL	2600	3AF32C50B/82NFA-6	2600								
SENECA III		TS10-360-KB	4										
PIPER	4.7	2	200	HARTZELL	76	2	VI	176	74.2	-2.8	71.4		SD,P-1
PA-34-220T	4.5	CONTINENTAL	2600	BHC-C2YF-2CK0F/FCC8459-8R	2600								
SENECA III		TS10-360-KB	4										
PIPER	1.7	1	112	SENSENICH	72	2	FI	105	67.8	0.0	67.8		P-1
PA-38-112	1.7	LYCOMING	2600	72CK-0-56	2600								
TOMAHAWK		O-235-L2C	5										

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE / MODEL / POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER / MAKE / MODEL	SHP / RPM / EXH	PROPELLER MAKE / MODEL	DIAM (IN) / RPM	BLADES / IDES	PITCH CONT / HUB	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
PIPER	11.2	2	720	HARTZELL	95	3	VI	230	80.3	-3.5	76.8		P-1
PA-42	10.2	PRATT+WHITNEY	2000	HC-B3TN-3B/T10173AB-6Q	2000								
CHEYENNE III		PT6A-41	4										
PIPER	12.1	2	1000	DOWTY ROTOL	106	4	VI		75.1	-5.0	70.1		CE
PA-42-1000	11.1	GARRETT	1540	R339/4-123-F/8RH	1540								
CHEYENNE IV		TPE 331-14A-801Y	4										
PIPER	3.8	2	180	HARTZELL	73	3	VI	168	77.2	-2.5	74.7		P-1
PA-44-180	3.8	LYCOMING	2700	HC-C3YR-2EUF/FC-7663-5R	2700								
SEMINOLE		O-360-E1D	2										
PIPER	3.9	2	180	HARTZELL	74	2	VI	162	73.8	-2.3	71.5		P-1
PA-44-180T	3.8	LYCOMING	2575	HC-C2YR-2CUF FC7666A-2R	2575								
TURBO SEMINOLE		TO-360-E1A6D	4										
PIPER	3.9	2	180	HARTZELL	73	3	VI	162	74.7	-2.3	72.4		P-1
PA-44-180T	3.8	LYCOMING	2575	HC-C3YR-2EUF FC-7663-5R	2575								
TURBO SEMINOLE		TO-360-E1A6D	4										
PIPER	3.9		310	HARTZELL	80	2	VI	174	74.5	0.0	74.5		SD
PA-46-310P		CONTINENTAL	2600	BHC-C2YF-1BF/FB8052									
MALIBU		TSIO-520-BE	4										
PIPER	6.3	2	350	HARTZELL	76	3	VI	217	80.8	-1.9	78.9		SD
PA-60-700P		LYCOMING	2500	HC-C3YR-2UF/FC7451	2500								
AEROSTAR		TIO-540-U2A	4										
PIPER	5.5	2	284	HARTZELL	78	3	VI		82.4	-2.4	80.0		P-1
PA-60OA	5.5	LYCOMING	2520	HC-C3YR-2UF FG-8486-10Q	2520								
AEROSTAR		IO-540-K1J5											
PIPER	6.0	2	290	HARTZELL	78	2	VI		81.5	-1.7	79.8		SD
PA-601P	6.0	LYCOMING	2575	HC-C3YR-2/C8468-8R									
AEROSTAR 601P		IO-540-S1A5/-P1A5											
PIPER	6.0	2	290	HARTZELL	78	3	VI	208	81.9	-2.6	79.3		P-1
PA-602P	6.0	LYCOMING	2425	HC-3YR-2UF/FC8468-8R	2425								
AEROSTAR PRESS.		IO-540-AA1A5	4										

APPENDIX 7
AIRCRAFT NOISE DATA FOR U.S. CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE MODEL POPULAR NAME	MTOW LW (LBS/1000)	ENGINE NUMBER MAKE MODEL	ENGINE SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BLADES	PITCH	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCE
SIAI-MARCHETTI SF260 TURBO PROP	2.6	ALLISON 250-B17D	320 4	HARTZELL HC-B3TF-7A	76 2030	3		187	77.0	-5.0	72.0		CE
TAYLORCRAFT BC-12D	1.2 1.2	1 AVCO LYCOMING IO-360-E2A	118 2500 3	HENDRICKSON H73-A50	71 2500	2	F	105	72.6	-5.0	67.6		SN
TAYLORCRAFT F-19	1.5 1.5	1 CONTINENTAL O-200-A	100 2750 5	MCCAULEY 1A105/SCM6950	69 2750	2	F		69.1	-0.7	68.4		GL
TAYLORCRAFT F-21 -	1.5 1.5	1 LYCOMING O-235-L2C	112 2600 5	SENSENICH 72CK-0-50	71 2800	2	F	96	69.0	-0.2	68.8		GL
TRIDENT TR-1	3.8 3.8	1 TELEDYNE TIARA 6-285-C4	232 4000 7	HARTZELL HC-H3YF-3LF/FL-C9684-I2	84 4000	3	V	122	78.2	-1.0	77.2		EA

APPENDIX 7 REFERENCES

A-1	ADVISORY CIRCULAR 36-1B 12/5/77
B-1	BEECH DATA 1/19/81
BA	BRITISH AEROSPACE
CE	CENTRAL REGION
EA	EASTERN REGION
G-1	GAMA DATA 2/27/81 (ADDITIONAL DATA)
G-2	GAMA DATA 2/27/81 (CORRECTIONS)
G-3	GAMA DATA 8/15/81
GL	GREAT LAKES REGION
NE	NEW ENGLAND REGION
NM	NORTHWEST MOUNTAIN REGION
P-1	PIPER DATA 8/31/81
S-1	CESSNA DATA
SO	SOUTHERN REGION
SW	SOUTHWEST REGION

APPENDIX 7 NOTES

1 MAXIMUM TAKEOFF WEIGHT GREATER THAN 12,500 LBS.--AIRCRAFT CERTIFICATED TO SFAR 41 OR FAR PART 23 COMMUTER CATEGORY

EXHAUST CONFIGURATIONS (RECIPROCATING ENGINES)

1: STUB PIPES
2: SMALL COLLECTOR, SHORT EXHAUST PIPE
3: BAFFLES IN COLLECTOR AND/OR CONES IN EXHAUST PIPE
4: TURBINE OR TURBOCHARGER
5: HEAT MUFF
6: COLLECTOR WRAPAROUND MANIFOLD STRAIGHT PIPE
7: MANIFOLD MUFFLER
8: RESONATOR MUFFLER

EQUATIONS FOR THE CALCULATION OF NOISE CERTIFICATION LIMITS FOR PROPELLER DRIVEN SMALL AND COMMUTER CATAGORY AIRPLANES

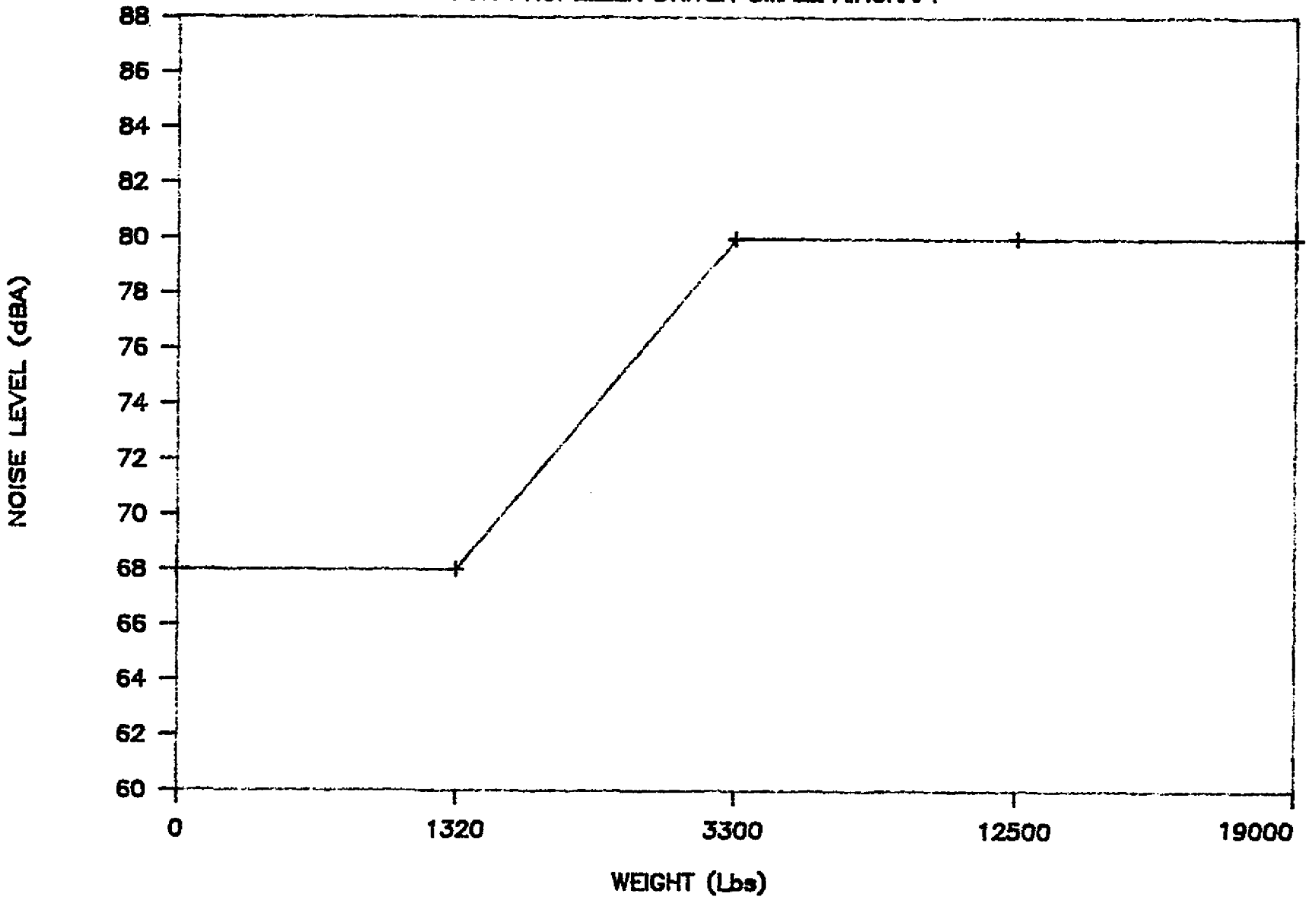
Application for Type Certification on or After January 1, 1975

Up to and including 1320 lbs.		68 dB(A)
Over 1320 lbs. up to and including 3300 lbs.	dB(A)	limit = 68+(W-1320)/165
Over 3300 lbs.		80 dB(A)

W = Takeoff Gross Weight in Pounds

NOISE CERTIFICATION LIMITS

FOR PROPELLER DRIVEN SMALL AIRCRAFT



APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LM (LBS/1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BLADES IDENT	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
A. SCHLEICHER ASK 16	1.6	1 LIMBACH SL2000-EB-1	74	HOFFMANN HO-V62R/LT160T	63 2700	2 VC	86	60.1	-1.3	58.7		I-0
AIRCONCEPT VOMI-10	0.7	1 LIMBACH SL-1700-EA	59	HOFFMANN HO-11-150B65L	59 3100	2 FC	62	64.1	-1.3	62.8		I-0
AKA-FLIEG STUTTGART FS-28 AVISPA	2.0	1 LYCOMING IO-360-B1F	181	HOFFMANN HO-V-132K-K/LD210	78 2200	2 VC	114	72.1	-1.4	70.6		I-0
ALPLA-WERKE AVO-68S	1.5	1 LIMBACH SL-1700-EI	59	HOFFMANN HO-11-150B75L	59 3025	2 FC	78	62.8	1.8	64.6		I-0
ALPLA-WERKE AVO-68S	1.5	1 LIMBACH SL-1700-EI	59	HOFFMANN HO-11-150B-75L	59 3125	2 FC	82	64.1	1.8	65.9		I-0
BEECH B76 DUCHESS	4.0	2 LYCOMING O-360-A1G6D	165 2700 1	HARTZELL HC-M2YR-2CLUF/FC7666A	76 2700	2 VC	160	79.5	-2.3	77.2		I-1,G-3
BRITTEN-NORMAN BN2-A-6	6.3	2 LYCOMING O-540-	256	HARTZELL HC-C2YK-2CF/FC8477A-4	79 2650	2 VC	139	82.3	-3.7	78.6		I-0
BUCKER (UNBAU) BU 131	1.5	1 LYCOMING AIO-320-C1B	153	HOFFMANN HO-23 A-188 125	74 2600	2 FC	89	69.6	-6.2	64.6		I-0
CASA 1.131E S2000	1.6	1 ENASA TIGRE G-IV-B	118	ENASA HC 212.111	83 2070	2 FC	116	67.		67.		I-0
CASA 1.131E S2000	1.6	1 LYCOMING AEIO-360-B2F	170	HOFFMANN HO-27 HM-198B	78 2500	2 FC	105	71.4	-5.	66.4		I-0

APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	NOISE LEVELS DB(A) TEST SPEED	NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
CASA SPANIER 1.131-E	1.6	1 TIGER ENHASA G-IV-A2	99	ENHASA HC-212-111	83 1850	2	FI	96	71.4	-1.8	69.6		I-0
DEHAVILLAND DH6-300 -	12.6 12.35	2 PRATT+WHITNEY PT6A-27	620 2112	HARTZELL HC-B3TN-3D	102 2112	3	VI	167	82.3	-4.9	77.4		I-4
DORNIER 228-101	13.1	2 GARRETT TPE331-5-252D		HARTZELL HC-B4TN-5ML/LT10574	107	4					75.3		I-0
DORNIER 228-201	13.1	2 GARRETT TPE331-5-252D		HARTZELL HC-B4TN-5ML/LT10574	107	4					75.3		I-0
DORNIER DO-28-D	9.6	2 PRATT+WHITNEY PT-6A-110	399	HARTZELL HC-B-3TN-3D	100 1900	3	VI	147	70.8	-5.	65.8		I-0
FOKKER F-149D	2.6	1 AVCO LYCOMING GO-480-B1A6	260	HARTZELL HC-A3V20-1D/V8433SP	85 1926	3	VI	134	68.8	-0.1	68.7		I-0
FUJI HEAVY IND. FA-200-180	2.5	1 LYCOMING IO-360-B1B	180	MCCAULY B2D34-C53/74E-0	74 2670	2	VI	118	73.1	0.5	73.6		I-0
GREAT LAKES AIRCRAFT 2T-1A-2	1.8	1 LYCOMING AEIO-360-B1B6	177	HARTZELL HC-C2YK-4BF	74 2700	2	VI	91	74.4	-5.	69.4		I-0
GULFSTREAM AMERICAN AA-1A TRAINER	1.5	1 LYCOMING O-235-C2C	108 2500	MC CAULEY SCM1A105/7154	71 2500	2	FI	105	68.3	0.3	68.6		I-5
GULFSTREAM AMERICAN AA-5A CHEETAH	2.2	1 LYCOMING O-320-E2G	150 2680	MC CAULEY 1C172/BTM7359	73 2680	2	FI	113	73.3	-0.6	72.7		I-5

APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LN (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	BL AD E	PI AT CH	NOISE LEVELS DB(A) TEST SPEED	NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
LEICHTFLUG-TECHNIK LFU-205	2.7	1 LYCOMING IO-360-A1C	197	HARTZELL HC-C2YK-1B/F7666A-2	74 2680	2	VI	147	72.9	0.1	73.		I-0
LET KONVICE BLANIK-L-13M	1.3	1 VK VW 1500-FR	50	HOFFMANN HO-11-1308-100D	51 3600	2	FI	83	59.5		59.5		I-0
MBB BO-208 JUNIOR	1.4	1 CONTINENTAL O-200-A	99	MCCAULY 1A-100MCM-6955	69 2700	2	FI	106	67.3		67.3		I-0
MBB BO-208 JUNIOR	1.4	1 CONTINENTAL O-200-A	69	MCCAULY 1A-100MCM-6950	69 2750	2	FI	105	66.9		66.9		I-0
MBB BO-208 JUNIOR	1.4	1 CONTINENTAL O-200-A	99	MCCAULY 1A-100MCM-6758	67 2750	2	FI	110	67.5	-1.	66.5		I-0
MBB BO-209 MONSUN	1.8	1 LYCOMING O-320-E1F	147	HARTZELL HC-C2YL-1B/7663A-6 'Pa	76 2700	2	VI	120	70.7	-1.6	69.1		I-0
MBB BO-209 MONSUN	1.8	1 LYCOMING IO-320-D1A	157	HARTZELL HC-C2YL-1B/7663-SP	76 2700	2	VI	127	70.8	-3.2	67.6		I-0
MBB BO-209-FF MONSUN	1.8	1 LYCOMING O-320-E2F	147	MCCAULY 1C-172MGM70-S-66	70 2680	2	FI	126	70.6	-0.9	69.7		I-0
MBB SIAT 223	2.3	1 LYCOMING IO-360-C1D6	197	HARTZELL HC-C2YK-1BF	76 2700	2	VI	111	72.8		72.8		I-0
MORANE SAULNIER MS-885	1.9	1 CONTINENTAL O-300-A	145	MCCAULY 1C-172MDM-7652	76 2400	2	FI	96	71.3	-0.3	70.3		I-0

APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	NOISE LEVELS DB(A) TEST SPEED	NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
MORAVAN CSSR ZLIN 43	3.0	1 MORAVAN M337A	168 V500A	AVIA-PRAHA	79 2600	2	VI	104	71.7	1.4	73.1		I-0
MUDRY CAARP CAP 10 -	1.8	1 LYCOMING IO 360 B2F	241 2700	HOFFMANN HO 29 HM 80170	71 2700	2	FI		67.		67.		I-1
PARTENAVIA P 68 B VICTOR	4.3	2 LYCOMING IO-360-A1B6	200 2700	HARTZELL HC-C2YK-2CF/FC7666A-4	72 2680	2	VI		79.6	-5.	74.6		I-0
PILATUS BRITTEN BN 2A-2 ISLANDER	6.3	2 LYCOMING IO-540-K1B5	300 2500 4	HARTZELL HC-C2YK-2CF/FC8477A-4	80 2500	2	VI	147	80.7	-5.	75.7		I-5
PILATUS BRITTEN BN-2T NORMAN ISLANDER	6.6	2 ALLISON 250-B17C	320 3	HARTZELL HC-C3YF-5/FC8475-6	80 2030	3	VI	146	72.3	-4.1	68.2		I-5
PILATUS BRITTEN BN2A MIII-2 TRISLANDER	9.5	3 LYCOMING IO-540-EAC5	260 2500 4	HARTZELL HC-C2YK-CUF/FC8477A-6	78 2500	2	VI	151	79.4	-2.	77.4		I-5
PILATUS BRITTEN BN2A MIII-2 TRISLANDER	9.5	3 LYCOMING IO-540-EAC5	260 2500 4	HARTZELL HC-2CYK-2CUF/FC8477A-4	80 2500	2	VI	152	80.	-2.	78.		I-5
PILATUS BRITTEN BN2A MK. III-3 TRISLANDER	10.0	3 LYCOMING IO-540-E4C5	260 2500 4	HARTZELL HC-C2YK-2CUF/FC8477A-6	78 2500	2	VI	151	79.4	-0.9	78.5		I-5
PILATUS BRITTEN BN2A MKIII-3 TRISLANDER	10.0	3 LYCOMING IO-540-EAC5	260 2500 4	HARTZELL HC-C2YK-2MF/FC8477A-4	80 2500	2	VI	152	80.	-0.9	79.1		I-5
PILATUS BRITTEN BN2A-2 ISLANDER	6.3	2 LYCOMING IO-540-K1B5	300 2500 4	HARTZELL HC-C2YK-2CF/FC8477A-6	78 2500	2	VI	146	77.9	-5.	72.9		I-5

APPENDIX 6
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LN (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
PILATUS BRITTEN BN2A-21 TRISLANDER	6.6	2 LYCOMING IO-540-K1B5	300 2500 4	HARTZELL HC-C2YK-2CF/FC8477-6	78 2500	2	V		77.9	-4.	73.9		I-5
PILATUS BRITTEN BN2A-21 TRISLANDER	6.6	2 LYCOMING IO-540-K1B5	300 2500 4	HARTZELL HC-C2YK-2CF/FC8477A-4	80 2500	2	V	147	80.7	-4.	76.7		I-5
PILATUS-PORTER PC-6C1-H2/PC-6T	4.8	1 AIRESEARCH TPE331-1-100	576	HARTZELL HC-B3TN-5C/T10178C/-CH	102 2000	3	V	102	74.6	-5.	69.6		I-0
PIPER PA-28-150 -	2.2	1 LYCOMING IO-320-E2A	2700	SENSENICH M74-DM-58	74 2700	2	F	103	70.6	0.9	71.5		I-5
POLISH PZL-104 WILGA	2.9 2.87	2 PZL-FRANKLIN AI-14R	260 2050 2	US 122	104 1620	2	V	93	72.3	-3.8	68.5		I-2
POLISH PZL-104 W/ T-05 WILGA	2.9 2.87	2 PZL-FRANKLIN AI-14R	260 2050 5	US 122	104 1620	2	V	92	65.4	-3.8	61.6		I-2
POLISH PZL-110 KOLIBER	1.7 1.7	2 PZL-FRANKLIN 4A.235 B	125 2050 2	US 135	70 2800	2	F		67.	2.8	69.8		I-2
REIMS AVIATION F 152 II -	1.7	1 LYCOMING C235 L2C	109 2550	MCCAULEY 1A 103/TCM 6958	69 2550	2	F	110	65.7	-1.	64.7		I-1
REIMS AVIATION F 172 M -	2.3	1 LYCOMING IC 320 E2D	150 2700	MCCAULEY 1C 16//DTM 7557	75 2700	2	F	124	72.7	1.2	73.9		I-1
REIMS AVIATION F 172 N -	2.3	1 LYCOMING IC 320 H2AD	160 2700	MCCAULEY 1C 160/DTM 7557	75 2700	2	F	124	73.4	-0.1	73.3		I-1

APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
REIMS AVIATION F 182 P -	3.0 -	1 CONTINENTAL O 470 S	230 2600	MCCAULEY 2A 34C 66	82 2600	2	VI	142	77.4	-1.4	76.		I-1
REIMS AVIATION F 182 Q -	3.0 2.95	1 CONTINENTAL O470 U	230 2400	MCCAULEY 2A 34C 204	82 2400	2	VI	150	72.1	-2.4	69.7		I-1
REIMS AVIATION FR 172K	2.6 -	1 CONTINENTAL IO 360 K	195 2600	MCCAULEY 2A 34C 203	77 2600	2	VI	129	73.2	-1.1	72.1		I-1
REIMS AVIATION FR 182	3.1 -	1 LYCOMING O540J3C5D	235 2400	MCCAULEY 2D 34C 214	82 2400	2	VI	159	73.1	-2.5	70.6		I-1
ROBIN DR 400/120A PETIT PRINCE	2.0 1.98	1 LYCOMING O 235 L2A	118 2700	MCCAULEY 1A 135 DCM 7150	71 2700	2	FI	109	68.2	2.4	70.6		I-1
ROBIN DR 400/160 CHEVALIER	2.3 2.31	1 LYCOMING O 320 D	160 2700	SENSENICH 74 DM 65264	74 2700	2	FI	129	72.9	0.3	73.2		I-1
ROBIN DR 400/180 REGENT	2.4 2.43	1 LYCOMING O 360 A 3A	180 2600	SENSENICH 76EM8S5-064	76 2600	2	FI	134	72.2	0.9	73.1		I-1
ROBIN DR 400/180R REGENT	2.2 2.2	1 LYCOMING O-360 A3A	180 2700	SENSENICH 76 EM 8S5058	76 2700	2	FI	117	74.1	-2.5	71.6		I-1
ROBIN DR400/120 PETIT PRINCE	2.0 1.98	1 LYCOMING O 235-L2A	116 2700	SENSENICH 72 CKS-6-056	72 2700	2	FI	145	69.6	2.	71.6		I-1
ROBIN HR 100-285 TIARA	3.1 3.09	1 CONTINENTAL TIARA 6 285 B	285 4000	HOFFMANN 2000TR/MN	79	3	VI		74.2	-1.3	72.9		I-1

APPENDIX 6
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
ROBIN R 2112	1.8 1.76	1 LYCOMING O 235 L2A	112 2600	SENSENICH 72 CK 56-056	72 2600	2	F	110	67.3	0.2	67.5		I-1
ROBIN R 2160 AEROBIN	1.8 1.76	1 LYCOMING O 320 D	160 2600	SENSENICH 74DM65 5264	72 2600	2	F	132	72.4	-2.6	69.8		I-1
SAAB FAIRCHILD MFI-15-200A	4.4	1 LYCOMING IO-360-A1B6	197	HARTZELL HC-2CYK-4BF	74 2700	2	V	120	73.8	0.7	74.5		I-0
SCHEIBE FLUGZEUGBAU SF-25C	1.3	1 LIMBACH SL-1700-EA	48	HOFFMANN HO-11-150B-75L	59 2800	2	F	82	58.3	-1.1	57.3		I-0
SCHEIBE FLUGZEUGBAU SF-27 M-B	0.9	1 HIRTH-MOT.BAU 171R-4E	28	HOFFMANN HO-02-120-50	47 4000	2	F	72	67.7	0.2	67.9		I-0
SCHEMPP-HIRTH CM	1.5	1 BINDER MOT.BAU WB-2	52	HOFFMANN HO-11 158B-70	62 2800	2	F	73	65.2	1.4	66.6		I-0
SCHEMPP-HIRTH NIMBUS-2M	1.3	1 SCHEMPP-HIRTH SM-1 (O-28280R)	50	HOFFMANN HO-11 145-880	57 3000	2	F	77	63.6	1.8	65.4		I-0
SHORT BROS. SKYVAN SERIES III	12.6	2 AIRESEARCH TPE-331-2-201A	715	HARTZELL HC-B3TN-5E/T10282HB	98	3	V		81.9	-4.7	77.2		I-3
SLINGSBY ENGINEERING T 67A	1.6	1 LYCOMING O-235-L2A	118 2800 2	HOFFMAN HO14-17B-120	70 2800	2	F	109	70.9	-2.3	68.6		I-5
SOC.AERONAUT. JODEL D 140B NORMANDE	2.7	1 LYCOMING O-360-A2A	177	SENSENICH 76EMB-0-60	76 2700	2	F	112	74.	0.2	74.2		I-0

APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE,MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	TEST SPEED	NOISE LEVELS DB(A) MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
SOCATA 110 ST RALLYE	1.7	1 LYCOMING O-235L-2A	110 2600	MCCAULEY 1A 103TCM 6958	69 2600	2	F	105	67.6	1.1	68.6		I-1
SOCATA 150 SV RALLYE	2.0	1 LYCOMING O 326 D2A	160 2700	SENSENICH M 74 DM 61	74 2700	2	F	64	73.8	-2.2	71.6		I-1
SOCATA 180 T RALLYE	2.1 2.09	1 LYCOMING O 360 A3A	180 2700	SENSENICH 76 EM8 060	76 2700	2	F	64	73.1	-0.8	72.3		I-1
SOCATA 235 E RALLYE	2.7 2.65	1 LYCOMING O 540 B4B5	235 2575	HARTZELL HCC2 YK184684	80 2575	2	V		74.3	-0.7	73.6		I-1
SOCATA 880 B RALLYE	1.7 1.7	1 ROLLS ROYCE O 200 A	100 2750	MCCAULEY 1A 101 DCM/6948	67 2750	2	F		68.8		68.8		I-1
SOCATA 893 E RALLYE	2.3 2.3	1 LYCOMING O 360 A3A	185 2700	HOFFMANN HO 27 HM/186 135	73 2700	2	F		71.3		71.3		I-1
SOCATA TB 10 TOBAGO	2.3	1 LYCOMING O-360-A1AD	180 2700	HARTZELL HC-C2YK-1BF-F7666-A2	74 2700	2	V	125	72.4	-0.9	71.5		I-1
SOCATA TB 9 TAMPICO	2.3	1 LYCOMING O 320 D2A	160 2700	SENSENICH 74 DM6 61	74 2700	2	F	121	71.2	1.3	72.5		I-1
SPORTAVIA PUTZ. ELSTER B	1.5	1 CONTINENTAL C90-12F	88	HOFFMANN HO-14-183 100	72 2475	2	F	74	66.		66.		I-0
SPORTAVIA PUTZ. RF-5	1.4	1 LIMBACH L2100-E1X	71	HOFFMANN HO-VR/L-150A	59 3000	2	V	106	63.4	-1.3	62.1		I-0

APPENDIX 8
AIRCRAFT NOISE DATA FOR FOREIGN CERTIFICATED PROPELLER DRIVEN
SMALL AIRCRAFT

AIRCRAFT MAKE, MODEL POPULAR NAME	MTOW LW (LBS/ 1000)	ENGINE NUMBER MAKE MODEL	SHP RPM EXH	PROPELLER MAKE MODEL	DIAM (IN) RPM	B L A D E	P I T C H	TEST SPEED	NOISE LEVELS DB(A) NOISE MEAS.	PERF CORR	CORR LVL.	NOTES	REFERENCES
SPORTAVIA PUTZ. RF6-B	2.0	1 LYCOMING O-320-A1B	150	HOFFMANN HO-23 178-145	70 2700	2	F	118	71.2	-1.1	70.1		I-0
SPORTAVIA PUTZ. RS-180	2.4	1 LYCOMING O-360-A3A	180	HOFFMANN HO-27-HM-180138	70 2500	2	F	110	66.8	-0.9	65.9		I-0
SPORTAVIA PUTZ. RS-180	2.5	1 LYCOMING O-360-A3A	180	MCCAULY 1A170/[illegible]A7563	75 2700	2	F	122	73.8		73.8		I-0
WASSMER WA 80	1.8	1 ROLLS ROYCE O 200 A	134 2700	HOFFMANN HO 14.175.113	69 2700	2	F		68.3		68.3		I-1
ZAKLADY SZCYBOWCOWE SZD 45 OGAR	1.5	1 LIMBACH SL-1700-E[illegible]	59	HOFFMANN HO-11-145 B750	57 3000	2	F	64	68.9	0.3	69.2		I-0

APPENDIX 8 REFERENCES

I-0 GERMANY 3/1/81
I-1 FRANCE 10/10/80
I-2 POLAND 1/18/82 CAN
I-3 UNITED KINGDOM 10/10/80 CAN
I-4 CANADA 10/10/80 CAN
I-5 ENGLAND 9/11/81

EXHAUST CONFIGURATIONS (RECIPROCATING ENGINES)

1: STUB PIPES
2: SMALL COLLECTOR, SHORT EXHAUST PIPE
3: TURBINE OR TURBOCHARGER
4: COLLECTOR WRAPAROUND MANIFOLD STRAIGHT PIPE
5: MANIFOLD MUFFLER

APPENDIX 9. DEFINITIONS

The following definitions apply to the column headings of the appendices of Advisory Circular 36-1E:

MTOW	Maximum Takeoff Weight
LW	Landing Weight
BPR	By-pass-ratio
APPR.	Approach
ALT.	The altitude in feet over the takeoff noise measurement station.
SHP	Shaft horsepower (measured during test).
RPM	Engine or propeller evolutions per minute.
EXH	Engine Exhaust configuration.

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ESTIMATED MAXIMUM A-WEIGHTED SOUND LEVELS
FOR AIRPLANES AT PART-36 APPENDIX 'C' LOCATIONS

TAKEOFF

MANUFACTURER	AIRPLANE	ENGINE	GR WGT. 1000 LBS.	EST. DBA	FLAPS	NOTES
MCDONNELL DOUGLAS	DC-10-40	JT9D-20	484.0	88.2	10	
MCDONNELL DOUGLAS	DC-10-10	CF6-6D	430.0	88.1	08	
MCDONNELL DOUGLAS	DC-10-10	CF6-6D1	440.0	88.1	08	
BOEING	B-727-200	JT8D-9QN	172.5	87.9	15	2
BOEING	B-727-100	JT8D-1FCD	160.5	87.4	05	3,8
BOEING	B-737-200	JT8D-9QN	117.0	87.3	01	2,8
BOEING	B-727-100C	JT8D-7	160.5	87.3	05	8
MCDONNELL DOUGLAS	DC-10-10	CF6-6D1	430.0	87.3	11	
LOCKHEED	L-1011-1	RB211-22C	430.0	87.1	10	
BOEING	B-737-200	JT8D-9QN	115.5	86.9	01	2
BOEING	B-737-200	JT8D-17QN	122.5	86.9	01	2
LOCKHEED	L-1011-1	RB211-22C	422.0	86.9	10	
MCDONNELL DOUGLAS	DC-10-10	CF6-6D	410.0	86.9	14	
BOEING	B-737-200	JT8D-9QN	114.5	86.8	01	2,8
BOEING	B-727-100	JT8D-7FCD	160.5	86.8	05	3
BOEING	B-737-200	JT8D-15QN	117.0	86.6	01	2
BOEING	B-737-200C	JT8D-15	115.5	86.5	01	8
BOEING	B-737-200	JT8D-7QN	109.0	86.4	01	2,8
BOEING	B-727-100	JT8D-9FCD	160.5	86.4	05	3
BOEING	B-737-100	JT8D-9	111.0	86.1		8
BOEING	B-737-200	JT8D-15QN	115.5	86.1	01	2
BOEING	B-737-200	JT8D-9QN	115.5	86.1	01	2,8
MCDONNELL DOUGLAS	DC-10-40	JT9D-20	430.0	85.6	10	
BOEING	B-737-200	JT8D-9	110.7	85.5	01	8
MCDONNELL DOUGLAS	DC-9-50	JT8D-17	121.0	85.4		1,8
BOEING	B-737-200	JT8D-17QN	115.5	85.3	01	2
LOCKHEED	L-1011-1	RB211-22C	416.0	85.3	10	8
MCDONNELL DOUGLAS	DC-9-30	JT8D-17	121.0	85.3		1,8
LOCKHEED	L-1011-1	RB211-22C	396.0	85.2	10	8
LOCKHEED	L-1011	RB211-22B	430.0	85.1	14	
MCDONNELL DOUGLAS	DC-9-50	JT8D-15	121.0	85.1		1,8
BOEING	B-737-200	JT8D-9QN	109.0	84.9	01	2,8
GATES LEARJET	LEARJET 23	CJ-610-1	12.5	84.7		8
ROCKWELL INTERNATIONAL	SABRE 60	JT12A-8	20.0	84.7		
MCDONNELL DOUGLAS	DC-10-10	CF6-6D	377.5	84.5	14	
MCDONNELL DOUGLAS	DC-10-10	CF6-6D1	386.5	84.5	15	
MCDONNELL DOUGLAS	DC-9-50	JT8D-17	118.0	84.5		1,8
MCDONNELL DOUGLAS	DC9-30	JT8D-9	114.0	84.3		8
GRUMMAN AMERICAN	GULFSTREAM II	SPEY MK511-8	65.5	84.2	20	8
MCDONNELL DOUGLAS	DC-9-40	JT8D-11	114.0	84.1		1
BOEING	B-737-200	JT8D-7QN	100.5	83.8	01	2,8
MCDONNELL DOUGLAS	DC-9-50	JT8D-17	115.0	83.7		1,8
MCDONNELL DOUGLAS	DC-9-30	JT8D-17	115.0	83.6		1,8
MCDONNELL DOUGLAS	DC-9-30	JT8D-9	110.0	83.4		1
MCDONNELL DOUGLAS	DC-9-50	JT8D-15	115.0	83.4		1,8
MCDONNELL DOUGLAS	DC-9-40	JT8D-15	114.0	83.1		1
MCDONNELL DOUGLAS	DC-9-30	JT8D-15	114.0	83.1		
GATES LEARJET	LEARJET 25C	CJ610-6	15.0	82.8	20	
GATES LEARJET	LEARJET 25D	CJ610-6	15.0	82.8	20	

ESTIMATED MAXIMUM A-WEIGHTED SOUND LEVELS
FOR AIRPLANES AT PART-36 APPENDIX 'C' LOCATIONS

TAKEOFF

MANUFACTURER	AIRPLANE	ENGINE	GR WGT. 1000 LBS.	EST. DBA	FLAPS	NOTES
MCDONNELL DOUGLAS	DC-9-30	JT8D-9	108.0	82.8		1
MCDONNELL DOUGLAS	DC-9-40	JT8D-11	107.0	82.5		1
MCDONNELL DOUGLAS	DC-9-30	JT8D-7A	108.0	82.4		1
BAC	1-11-300/400	SPEY MK512	98.9	82.3		
LOCKHEED	1329-25 JETSTAR II	TFE731-3-1E	43.8	82.3	20	
MCDONNELL DOUGLAS	DC-9-50	JT8D-17	110.0	82.3		1,8
MCDONNELL DOUGLAS	DC9-30	JT8D-11	114.0	82.3		8
MCDONNELL DOUGLAS	DC-9-30	JT8D-17	110.0	82.2		1,8
MCDONNELL DOUGLAS	DC-9-30	JT8D-15	110.0	82.0		1
MCDONNELL DOUGLAS	DC-9-50	JT8D-15	110.0	82.0		1
MCDONNELL DOUGLAS	DC-9-30	JT8D-9	103.0	81.6		1
MCDONNELL DOUGLAS	DC-9-30	JT8D-15	108.0	81.5		1
LOCKHEED	L-188	501-D13	116.0	81.3		8
GATES LEARJET	LEARJET 24D	CJ610-6	13.5	80.6	20	
MCDONNELL DOUGLAS	DC-9-40	JT8D-15	105.0	80.6		1
MCDONNELL DOUGLAS	DC9-30	JT8D-7	108.0	80.3		8
GRUMMAN AMERICAN	GULFSTREAM II	SPEY MK511-8	62.0	80.1	20	8
GATES LEARJET	LEARJET 25D	CJ610-6	15.0	79.7	08	8
GATES LEARJET	LEARJET 25F	CJ610-6	15.0	79.7	08	8
HAWKER SIDDELEY	HS-125-400	VIPER 522	23.3	79.7		8
AIRBUS	A-300B4-2C	CF6-50C	346.5	79.4		8,9
VFW FOKKER	F-28 MK1000	SPEY MK555-15	65.0	79.2	06	
VFW FOKKER	F-28 MK2000	SPEY MK555-15	65.0	79.2	06	
AIRBUS	A-300B	CF6-50A	302.0	79.1		8
MCDONNELL DOUGLAS	DC-9-30	JT8D-7A	94.0	79.0		1
HAWKER SIDDELEY	HS-125-3	VIPER 522	21.0	78.7		8
HAWKER SIDDELEY	HS-125-600	VIPER 601-22	25.0	78.7		8
AIRBUS	A-300B4-2C	CF6-50C	336.6	78.5		8,9
MCDONNELL DOUGLAS	DC-9-30	JT8D-15	98.0	78.5		
AEROSPATIALE	NORD-262C	BASTAN VIIA	22.9	78.3		8
AIRBUS	A-300B2-1A	CF6-50A	312.4	78.3		8,9
MCDONNELL DOUGLAS	DC9-30	JT8D-1	98.0	78.3		8
MCDONNELL DOUGLAS	DC9-80	JT8D-109	140.0	78.1		8
ROCKWELL INTERNATIONAL	560E	GO-480-G1B6	6.5	78.0		
AIRBUS	A-300B4-2C	CF6-50C	330.0	77.9		8,9
HAWKER SIDDELEY	HS-125-1A	VIPER 521	19.6	77.7		8
ROCKWELL INTERNATIONAL	SABRE 75A	CF700-2D-2	23.0	77.7	15	
GENERAL DYNAMICS	CV-580	ALLISON 501-D13D	54.6	77.3		
MCDONNELL DOUGLAS	DC9-20	JT8D-9	98.0	77.3		8
MCDONNELL DOUGLAS	DC9-10	JT8D-5	86.3	77.3		8
MCDONNELL DOUGLAS	DC9-10	JT8D-1	90.7	77.3		8
MCDONNELL DOUGLAS	DC9-10	JT8D-7	90.7	77.3		8
AIRBUS	A-300B2-1C	CF6-50C	312.4	77.1		8,9
DASSAULT BREGUET	FALCON 20	CF700-2D-2	28.6	77.0	10	8
AIRBUS	A-300B2-1A	CF6-50A	301.4	76.8		8,9
AIRBUS	A-300B1	CF6-50A	302.0	76.8		8,9
AIRBUS	A-300B2-1A	CF6-50A	302.4	76.8		8,9
AIRBUS	A-300B2-1C	CF6-50C	302.0	76.0		8,9
AIRBUS	A-300B2-1C	CF6-50C	302.1	76.0		8,9