Rickley

Report No. FAA-RD-77-57, II

HELICOPTER NOISE MEASUREMENTS
DATA REPORT

Volume II Helicopter Models: Bell 212 (UH-1N), Sikorsky S-61 (SH-3A), Sikorsky S-64 "Skycrane" (CH-54B), Boeing Vertol "Chinook" (CH-47C)

April 1977

Data Report

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H. C. True, E. J. Rickley, and R. M. Letty

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Refer to the main text in Volume I which describes the test program and data presentation format.

16. Abstract

This data report contains the measured noise levels obtained from an FAA Helicopter Noise Test Program. The purpose of this test program was to provide a data base for a possible helicopter noise certification rule. The noise data presented in this two volume report is primarily intended as a means to disseminate the available information. Only the measured data is presented in this report. All FAA/DOT data analysis and comparisons will be presented in a later report which is scheduled for distribution in July, 1977.

The eight helicopters tested during this Helicopter Noise Test Program constituted a wide range of gross weights and included participation from several helicopter manufacturers. The helicopter models used in this test program were the Hughes 300C, Hughes 500C, Bell 47-G, Bell 206-L, Bell 212 (UH-1N), Sikorsky S-61 (SH-3A), Sikorsky S-64 "Skycrane" (CH-54B), and Boeing Vertol "Chinook" CH-47C. Volume I contains the measured noise levels obtained from the first four helicopters while Volume II contains the data from the remaining four.

The test procedure for each helicopter consisted of obtaining noise data during hover, level flyover, and approach conditions. The data presented in this report consists of time histories, 1/3-octave band spectra, EPNL, PNL, dBA, dBD and OASPL noise levels.

17. Key Words	18. Distribution Statement
Helicopter Noise Levels; Hover; Level Flyover; Approach; Glide Slope; Time Histories; EPNL, PNL, dBA, dBD and OASPL.	This document is available to the public through the National Technical Information Service Springfield, Virginia 22151

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DATA TABLE E

BELL 212 (UHIN)

TEST DATE: 10-6-76 TEST SITE: DULLES AIRPORT

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THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE E-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION		MICROPHONE LOCATION			
			WEST		EAST	
			150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
24	6° Approach	60 Kts	X		X	X
27	9° Approach	60 Kts	X		X	
29	Level Flyover	60 Kts			X	
30	↓	↓			X	
31		↓			X	
32		99 Kts			X	
33		↓			X	
34		↓			X	
35		110 Kts			X	X
36		↓	X		X	X
37		114 Kts			X	
38	↓	↓			X	
43	3° Approach	60 Kts	X		X	
44	Level Flyover	110 Kts	X		X	X
45	↓	↓	X		X	X
46		114 Kts			X	
47	↓	↓			X	
	Microphone Locations		Over Transpo Site Surface	Over Plywood	Over Transpo Site Surface	Over Transpo Site Surface

GENERAL COMMENTS

- There were no problems encountered while testing the Bell-212 (UHIN).
- The weather conditions during the test consisted of moderate winds with gusts in the 8-12 mph range.

TABLE E-II Ground and Flight Log Data

Helicopter Model: Bell 212 (UH1N) Registration Number: U.S.A.F. Mussal 5 Test Date: 10/6/76

Run	Time	Target Conditions: Type	Velocity	Altitude over mics.	Actual Conditions: dBA *	Heading	A/S	R/D	Mp or Torque	Altitude over Mics.	RPM	OAT	Ground Weather (10 ft.): Temp	RH	Wind Speed	Direction	Comments
1	1:29	Hover	0	5 ft.	94	0° N	0	0	70	5 ft.		64.5°F					
2	1:30				96	45°			72								
3	1:32				96.5	90° E			70								
4	1:33				95.5	135°			70								
5	1:34				98	180° S			69								
6	1:37				94.5	225°			69								
7	1:38				95	270° W			71								Abort (Aircraft Take-off)
8	1:37				96.5	315°			71								
9	1:40				96	0° N			71								Abort (Aircraft Take-off)
10	1:41				—	0° N			71								
11	1:42				99	45°			71								
12	1:43				98	90° E			69								
13	1:44				99.5	135°			64								
14	1:45				99.5	180° S			67								
15	1:46	↓	↓	↓	93	220° SW	↓	↓	69	↓		↓					
19	2:25	Hover	0	500 ft.	79	180° S	0	0	65	500							Abort
20	2:28	↓	↓	↓	86	180° S	↓	↓	65	↓							
21	2:29				85	90° E			78								
22	2:33	6° App.	60 kts.	400 ft.	82	S	58 kts.	520 ft/min	35	420							
23	2:36	↓	↓	↓	84	↓	58	500	35	400							
24	2:41				82.5		55	—	32	380							
25	2:49	9° App.	60 kts.	400 ft.	86.5	S	60 kts.	700 ft/min	20	440							Below 9° app. at first - then good. Possible interference from small plane take-off
26	2:53	↓	↓	↓	86.5	↓	55	700	20	430							
27	2:57				85.0		55	250	20	430							
28	3:00				83.5		58	600	20	450							

* Sound Level Meter Located 100 ft. North of Hover position. Microphone at grazing incidence to the noise.

TABLE E-II Ground and Flight Log Data

Helicopter Model: Bell 212 (UHIN) Registration Number: U.S.A.F. Mission 5 Test Date: 10/3/96

Run	Time	Target Conditions: Type	Target Conditions: Velocity	Target Conditions: Altitude over MSL	Actual Conditions: dB A	Actual Conditions: Heading	Actual Conditions: A/S	Actual Conditions: F/O	Actual Conditions: Mf = Torque	Ground Weather (10 ft): Altitude over MSL	Ground Weather (10 ft): RPM	Ground Weather (10 ft): OAT	Ground Weather (10 ft): Temp.	Ground Weather (10 ft): RH	Ground Weather (10 ft): Wind Speed	Ground Weather (10 ft): Wind Direction	Comments
29	3:02	Level Flyover	60 kts.	500 ft.	79	S	60	0	41	500							
30	3:05	↓	↓	↓	77.5	N	61	0	41	520							
31	3:08	↓	↓	↓	79	S	61	0	43	600							
32	3:12	↓	99 kts	↓	84	↓	100	0	53	500							
33	3:15	↓	↓	↓	81	↓	96	0	51	500							
34	3:19	↓	↓	↓	83	↓	98	0	53	450							
	Stopped to re-fuel the helicopter and re-calibrate the microphones																
35	3:56	Level Flyover	110 kts.	500 ft.	85	S	108	0	55	500							Possible noise contamination from aircraft take-off (far away)
36	3:59	↓	↓	↓	85	↓	105	0	55	460							
37	4:00	↓	114 kts.	↓	85.5	↓	115	0	60	500							
38	4:03	↓	↓	↓	85.5	↓	120	0	64	460							
39	4:05	3° App.	60 kts	400 ft.	—	↓	60	300 ft/min.	35	400							Abort
40	4:09	↓	↓	↓	—	↓	60	300	35	400							Abort
41	4:10	↓	↓	↓	85	↓	60	300	34	400							
42	4:13	↓	↓	↓	81.5	↓	58	320	34	380							
43	4:16	↓	↓	↓	82.5	↓	60	300	35	410							
44	4:21	Level Flyover	110 kts.	500 ft.	86.5	↓	108	0	63	450							
45	4:24	↓	↓	↓	81.5	↓	106	0	60	600							
46	4:26	↓	114 kts	↓	86.5	↓	115	0	64	500							
47	4:28	↓	↓	↓	85.5	↓	116	0	60	510							

TABLE E-III

Meteorological Data
Dulles International Airport
October 6, 1976

Time	Temp.	Bar. Press.	Rel. Hum	Wind Speed	Wind Direction	Remarks
(Hours	(°F)	(mm Hg)	(%)	(mph)	(Degrees)	
1315	67		65	10-11	160	Scat. Clds.
1330	66		66	9-10	185	
1345	68		64	8-10	195	
1400	68		64	10-11	200	
1415	69		61	9-10	180	
1430	69		60	9-10	180	
1445	70		58	9-10	170	
1500	69	753	59	14-16	180	
1515	68		60	12-14	170	
1530	68		59	9-11	180	
1545	69		58	8-9	170	
1600	70		58	7-8	180	
1615	70		58	10-12	160	
1630	70	753	56	10-11	190	

TABLE E-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

BELL 212

OCTOBER 6, 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LE@	DUR(A)	DUR(P)	TC
24	95.6	80.2	86.0	91.7	93.1	94.0	75.7	41.0	41.0	1.0
27	97.0	80.7	86.8	92.5	94.5	95.2	76.1	52.5	43.0	.7
36	96.9	81.9	88.4	95.0	95.3	95.3	78.9	27.0	27.5	.0
43	94.0	76.9	82.4	91.5	89.2	90.3	72.8	56.0	57.0	2.1
44	96.3	81.3	87.9	94.8	94.3	95.9	78.3	23.5	23.5	1.9
45	96.2	80.6	86.5	94.5	94.2	95.3	77.2	25.0	30.0	1.3

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LE@	DUR(A)	DUR(P)	TC
24	96.3	79.4	83.9	89.4	91.8	93.5	73.3	69.5	70.5	1.7
35	96.8	83.3	88.6	95.0	95.6	96.0	79.3	21.5	24.0	1.1
36	96.2	81.1	89.1	95.2	95.2	95.2	78.3	22.0	22.0	.0
44	95.7	80.3	89.2	95.3	94.7	94.7	77.6	23.0	23.5	.0
45	93.6	79.1	87.2	95.0	94.6	94.6	75.7	18.5	20.0	.0

TABLE E-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

BELL 212

OCTOBER 6, 1976

CENTERLINE MICROPHONE (SOFT SITE)
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LE	DUR(A)	DUR(P)	TC
24	99.3	84.2	92.3	95.0	98.0	98.0	79.8	33.5	38.5	.0
27	100.6	85.2	93.4	95.8	99.3	99.3	81.2	36.0	35.5	.0
29	96.5	79.0	87.3	91.4	93.3	93.3	73.7	62.5	69.0	.0
30	94.4	79.3	87.0	91.0	93.0	93.0	74.2	35.0	44.5	.0
31	96.0	78.8	86.2	90.9	92.7	92.7	74.3	56.0	57.5	.0
32	96.7	83.7	90.8	93.3	97.2	97.2	78.2	24.5	26.0	.0
33	96.2	81.2	89.1	94.6	95.5	95.5	76.8	27.0	31.5	.0
34	96.3	81.8	88.9	95.0	95.4	95.4	77.2	24.5	27.5	.0
35	98.4	83.9	89.8	95.7	97.9	97.9	80.0	23.0	29.0	.0
36	98.3	86.0	91.8	96.1	99.9	99.9	80.3	21.5	22.5	.0
37	99.3	85.5	91.7	97.1	100.2	100.2	82.2	18.5	19.5	.0
38	101.8	86.0	94.7	100.2	101.3	101.6	83.8	20.0	20.5	1.1
43	98.4	82.9	89.1	93.8	96.9	96.9	79.1	29.0	57.0	.0
44	98.6	85.5	91.5	96.5	99.5	99.5	80.6	21.5	24.5	.0
45	96.2	81.1	88.5	94.9	95.7	95.7	76.7	26.0	31.5	.0
46	100.5	87.2	94.3	98.8	101.4	101.4	82.3	18.5	20.0	.0
47	98.0	83.6	90.0	97.2	98.3	98.3	80.0	22.0	23.0	.0

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 24, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.2	75.9	83.9	83.3	83.3	14.1	6.7
4	66.9	74.3	82.7	81.2	82.2	14.3	7.4
7	65.9	73.2	82.4	79.8	80.9	13.9	7.3
10	69.4	76.1	83.5	82.7	82.7	13.3	6.7
13	73.4	78.6	85.7	85.8	85.8	12.4	5.2
16	68.5	76.8	85.6	83.6	83.6	15.1	8.3
19	71.7	79.7	87.2	86.1	87.1	14.4	8.0
22	75.4	80.8	87.4	88.0	89.1	12.6	5.4
25	76.3	81.3	87.4	88.3	89.8	12.0	5.0
28	72.4	79.5	87.3	86.9	86.9	14.5	7.1
31	76.6	82.1	87.6	89.3	90.6	12.7	5.5
34	76.1	80.5	86.3	88.1	88.1	12.0	4.4
37	73.8	79.2	86.4	86.9	88.4	13.1	5.4
40	73.6	79.4	86.6	86.8	86.8	13.2	5.8
43	72.8	78.1	85.0	85.6	86.7	12.8	5.3
46	73.2	79.0	85.1	86.2	87.7	13.0	5.8
49	72.8	78.4	83.8	85.3	85.3	12.5	5.6
52	73.5	78.9	83.2	86.4	87.8	12.9	5.4
55	77.0	81.8	85.7	89.2	90.5	12.2	4.8
58	77.2	82.4	86.4	89.2	89.2	12.0	5.2
61	76.1	82.0	88.1	89.4	89.4	13.3	5.9
OH 64→65	78.7	84.5	90.3	91.6	91.6	12.9	5.8
67	78.2	84.5	91.4	91.9	91.9	13.7	6.3
70	79.3	85.3	91.3	92.4	92.9	13.1	6.0
71	80.2	86.0	91.1	93.0	94.0	12.8	5.8
74	78.2	84.0	89.2	91.7	92.9	13.5	5.8
77	78.8	84.2	88.0	92.4	93.5	13.6	5.4
80	77.1	82.4	85.8	89.7	89.7	12.6	5.3
83	74.9	80.2	84.2	88.0	90.0	13.1	5.3
86	71.2	77.5	82.7	84.8	86.4	13.6	6.3
89	70.5	77.0	82.0	84.3	85.6	13.8	6.5
92	69.5	75.5	81.1	82.6	82.6	13.1	6.0
95	68.3	74.4	79.8	81.5	81.5	13.2	6.1
98	64.6	72.1	79.0	78.7	79.8	14.1	7.5
101	67.5	74.2	78.8	81.3	83.0	13.8	6.7

TABLE E-IV

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 27, 9 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.9	75.2	83.2	82.0	83.2	15.1	8.3
4	69.0	74.5	82.7	82.0	82.0	13.0	5.5
7	66.7	73.9	82.6	81.1	81.1	14.4	7.2
10	70.1	75.7	82.4	83.3	84.6	13.2	5.6
13	75.9	80.1	84.6	87.8	89.0	11.9	4.2
16	72.1	77.6	84.3	85.0	86.2	12.9	5.5
19	74.4	78.8	84.3	86.7	88.3	12.3	4.4
22	69.1	76.1	84.0	83.6	84.6	14.5	7.0
25	74.6	79.4	84.9	87.2	88.8	12.6	4.8
28	74.3	79.3	85.4	87.5	87.5	13.2	5.0
31	75.9	80.7	86.1	88.7	88.7	12.8	4.8
34	78.0	82.7	86.7	90.2	90.2	12.2	4.7
37	78.6	83.2	86.8	91.2	93.0	12.6	4.6
40	76.5	80.7	85.4	89.4	92.0	12.9	4.2
43	73.1	79.0	85.1	86.7	89.1	13.6	5.9
46	77.6	82.3	86.7	90.1	91.7	12.5	4.7
49	78.7	82.7	86.2	90.7	90.7	12.0	4.0
52	75.9	81.0	84.6	88.4	88.4	12.5	5.1
55	77.5	82.5	85.2	90.0	91.9	12.5	5.0
58	75.9	81.3	84.7	88.8	90.3	12.9	5.4
61	76.5	82.2	85.3	89.4	89.4	12.9	5.7
64	78.1	83.7	87.5	91.0	91.0	12.9	5.6
67	79.4	85.4	90.2	92.7	92.7	13.3	6.0
OH → 70	77.9	84.0	90.5	90.7	90.7	12.8	6.1
73	78.5	84.6	92.0	91.5	91.5	13.0	6.1
76	79.8	86.0	92.5	93.5	94.1	13.7	6.2
78	80.7	86.8	92.4	94.5	95.2	13.8	6.1
81	77.6	83.5	88.9	90.8	92.1	13.2	5.9
84	77.8	83.5	86.3	90.6	92.1	12.8	5.7
87	76.1	81.4	84.8	89.5	89.5	13.4	5.3
90	74.8	80.7	84.1	87.9	90.2	13.1	5.9
93	72.9	79.2	83.2	86.4	86.4	13.5	6.3
96	69.8	75.9	81.2	83.3	84.4	13.5	6.1
99	68.4	75.2	81.2	82.1	82.1	13.7	6.8
102	65.2	72.5	80.2	79.4	79.4	14.2	7.3
105	66.8	73.1	79.4	80.6	82.3	13.8	6.3

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 36, 110 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	3	62.5	74.5	84.4	80.2	80.2	17.7	12.0
	5	65.3	77.5	86.7	83.0	83.0	17.7	12.2
	7	69.3	80.7	88.8	85.7	85.7	16.4	11.4
	9	72.9	83.4	90.7	88.3	88.3	15.4	10.5
	11	75.5	85.1	91.9	90.2	90.2	14.7	9.6
	13	76.4	85.9	92.2	90.3	90.3	13.9	9.5
	15	77.1	86.1	92.2	90.8	90.8	13.7	9.0
	17	76.2	85.3	92.0	90.4	90.4	14.2	9.1
	19	76.4	85.1	92.4	91.3	91.3	14.9	8.7
	21	78.5	86.7	93.5	92.6	92.6	14.1	8.2
	23	80.6	88.4	94.4	94.8	94.8	14.2	7.8
	25	78.8	87.1	93.8	93.1	93.1	14.3	8.3
	27	76.7	86.1	93.2	92.0	92.0	15.3	9.4
	29	79.1	87.0	93.6	93.3	93.3	14.2	7.9
	31	80.5	87.4	94.1	94.3	94.3	13.8	6.9
	32	81.9	88.1	94.5	95.3	95.3	13.4	6.2
	34	80.9	87.7	94.9	95.0	95.0	14.1	6.8
	36	79.8	86.3	94.3	93.6	94.6	13.8	6.5
	38	79.8	85.9	94.3	93.5	93.5	13.7	6.1
	40	80.5	86.2	94.0	93.8	93.8	13.3	5.7
	42	81.5	86.5	93.1	94.0	94.0	12.5	5.0
	44	81.7	86.3	91.6	93.3	94.8	11.6	4.6
OH →	46	81.0	85.8	90.5	93.0	93.0	12.0	4.8
	48	81.0	85.6	90.3	93.6	93.6	12.6	4.6
	50	81.0	85.5	89.4	93.3	93.3	12.3	4.5
	52	79.0	83.7	87.5	91.0	91.0	12.0	4.7
	54	77.6	82.5	87.0	89.8	89.8	12.2	4.9
	56	76.3	80.7	84.9	88.4	89.6	12.1	4.4
	58	75.7	80.0	83.1	87.2	87.2	11.5	4.3
	60	73.4	78.1	81.0	85.0	86.1	11.6	4.7
	62	70.4	74.9	79.4	82.1	83.6	11.7	4.5
	64	67.7	72.1	77.8	80.1	81.4	12.4	4.4
	66	67.5	72.1	77.9	80.4	82.6	12.9	4.6
	68	67.4	72.4	77.8	80.6	83.1	13.2	5.0

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 43, 3 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	57.7	69.8	80.8	76.3	76.3	18.6	12.1
4	58.8	70.7	81.5	77.4	77.4	18.6	11.9
7	60.8	71.7	81.5	78.2	78.2	17.4	10.9
10	65.6	73.9	82.0	80.5	80.5	14.9	8.3
13	68.2	76.1	83.0	82.4	82.4	14.2	7.9
16	67.3	76.0	83.5	82.0	82.0	14.7	8.7
19	67.4	76.8	84.9	82.7	82.7	15.3	9.4
22	65.2	75.4	84.2	81.7	81.7	16.5	10.2
25	64.9	73.8	83.1	80.2	80.2	15.3	8.9
28	66.5	74.7	83.6	81.1	81.1	14.6	8.2
31	69.5	77.4	85.2	84.0	84.0	14.5	7.9
34	71.2	78.9	86.3	85.6	85.6	14.4	7.7
37	70.8	78.6	86.2	84.9	84.9	14.1	7.8
40	71.7	79.0	86.0	85.9	85.9	14.2	7.3
43	67.4	75.6	84.1	82.4	83.6	15.0	8.2
46	66.2	74.8	84.4	81.4	82.5	15.2	8.6
49	68.4	76.5	85.7	83.1	83.1	14.7	8.1
52	68.9	77.2	86.1	83.9	85.1	15.0	8.3
55	71.3	77.8	86.2	84.8	86.5	13.5	6.5
58	70.7	77.4	86.2	84.3	86.3	13.6	6.7
61	72.8	78.3	85.8	85.4	85.4	12.6	5.5
64	71.2	77.2	84.9	84.3	84.3	13.1	6.0
67	73.4	78.2	84.7	86.1	87.2	12.7	4.8
70	73.4	78.5	85.2	85.9	87.0	12.5	5.1
73	75.1	80.2	86.0	88.0	88.0	12.9	5.1
76	74.8	79.8	84.8	87.6	88.8	12.8	5.0
79	75.3	80.4	83.8	87.3	89.1	12.0	5.1
82	75.4	80.7	84.0	87.9	87.9	12.5	5.3
85	75.9	81.2	84.4	87.8	89.7	11.9	5.3
86	76.1	81.4	85.0	88.2	90.3	12.1	5.3
89	76.5	81.5	86.9	88.3	88.3	11.8	5.0
92	76.5	82.0	89.3	88.8	88.8	12.3	5.5
OH → 94							
95	76.0	81.8	90.8	88.3	88.3	12.3	5.8
98	76.3	82.3	91.3	89.1	89.7	12.8	6.0
101	75.7	81.5	90.6	88.8	89.4	13.1	5.8
104	75.0	80.3	88.3	87.2	87.2	12.2	5.3
107	74.8	80.4	86.0	87.4	89.3	12.6	5.6
110	73.7	79.5	83.2	86.5	87.6	12.8	5.8
113	71.0	76.7	81.7	84.1	85.5	13.1	5.7
116	70.1	75.7	80.1	82.8	82.8	12.7	5.6
119	68.0	74.5	80.5	81.8	83.2	13.8	6.5
122	66.6	72.9	78.7	80.2	82.2	13.6	6.3
125	62.6	69.9	77.2	76.8	78.2	14.2	7.3
128	61.9	69.2	76.5	75.9	75.9	14.0	7.3
131	59.0	67.4	75.3	74.6	76.4	15.6	8.4

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 44, 110 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	65.9	77.1	86.0	82.6	82.6	16.7	11.2
	3	65.0	76.2	85.2	81.8	81.8	16.8	11.2
	5	67.8	77.7	86.2	83.5	83.5	15.7	9.9
	7	71.6	81.7	89.7	86.7	86.7	15.1	10.1
	9	75.8	85.2	92.6	90.0	90.0	14.2	9.4
	11	78.1	87.0	93.8	92.0	92.0	13.9	8.9
	13	78.7	87.9	94.5	92.8	92.8	14.1	9.2
	15	78.1	87.2	94.3	92.9	92.9	14.8	9.1
	17	78.6	87.1	93.9	93.0	93.0	14.4	8.5
	19	78.4	87.1	93.9	93.0	93.0	14.6	8.7
	21	77.0	86.2	93.4	91.9	91.9	14.9	9.2
	23	78.2	86.9	94.6	93.4	95.0	15.2	8.7
	25	79.5	87.2	94.7	94.0	95.5	14.5	7.7
	27	79.9	86.9	94.5	94.0	95.2	14.1	7.0
	29	79.0	86.0	94.3	93.5	94.7	14.5	7.0
	31	79.9	86.3	94.8	94.3	94.3	14.4	6.4
	33	80.2	85.6	93.7	93.5	93.5	13.3	5.4
	34	81.2	86.2	93.1	94.0	95.9	12.8	5.0
	36	81.2	86.1	91.4	93.6	94.6	12.4	4.9
	38	80.0	84.9	90.0	92.1	93.3	12.1	4.9
OH →	40	79.4	84.2	89.4	91.4	91.4	12.0	4.8
	42	78.7	83.7	89.2	91.0	91.0	12.3	5.0
	44	77.1	82.2	88.3	89.4	89.4	12.3	5.1
	46	76.1	81.2	86.6	87.8	89.1	11.7	5.1
	48	74.7	79.5	84.6	86.6	87.8	11.9	4.8
	50	73.4	78.5	83.3	86.2	87.2	12.8	5.1
	52	72.4	77.2	81.9	84.9	86.6	12.5	4.8
	54	69.7	74.9	80.5	82.6	83.7	12.9	5.2
	56	69.1	74.4	79.0	81.6	83.3	12.5	5.3
	58	67.3	72.5	78.2	80.4	82.9	13.1	5.2
	60	64.4	70.3	77.1	77.2	78.7	12.8	5.9

TABLE E-IV

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 45, 110 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	61.7	73.6	82.1	83.0	83.0	21.3	11.9
	3	62.4	74.6	83.0	83.2	83.2	20.8	12.2
	5	63.7	75.1	83.5	83.6	83.6	19.9	11.4
	7	65.7	76.5	84.9	84.9	84.9	19.2	10.8
	9	69.2	78.5	87.3	87.0	87.0	17.8	9.3
	11	71.6	79.9	88.3	88.7	88.7	17.1	8.3
	13	73.2	81.3	89.2	89.4	89.4	16.2	8.1
	15	74.2	83.4	90.8	90.8	90.8	16.6	9.2
	17	76.6	86.1	92.9	92.8	92.8	16.2	9.5
	19	76.1	85.1	92.3	92.4	92.4	16.3	9.0
	21	74.7	83.3	91.3	91.0	91.0	16.3	8.6
	23	75.6	84.0	91.6	91.7	91.7	16.1	8.4
	25	75.9	84.5	92.2	92.0	92.0	16.1	8.6
	27	76.3	85.3	93.2	92.4	92.4	16.1	9.0
	29	77.8	86.5	94.1	93.6	95.2	15.8	8.7
	31	76.1	85.8	94.4	93.3	94.7	17.2	9.7
	33	75.3	84.8	94.2	92.9	92.9	17.6	9.5
	35	78.0	85.5	94.1	93.9	93.9	15.9	7.5
	37	79.0	85.5	94.1	93.9	95.3	14.9	6.5
	39	78.6	84.2	93.2	92.6	93.6	14.0	5.6
	41	79.8	85.0	92.8	92.6	92.6	12.8	5.2
	43	80.6	85.3	90.7	93.3	93.3	12.7	4.7
OH →	45	80.0	84.4	87.8	92.4	92.4	12.4	4.4
	47	80.0	84.7	87.9	91.8	91.8	11.8	4.7
	49	79.2	83.7	87.7	91.1	91.1	11.9	4.5
	51	77.9	82.3	86.7	90.1	90.1	12.2	4.4
	53	77.2	81.8	86.5	89.9	89.9	12.7	4.6
	55	74.5	79.6	85.1	87.5	87.5	13.0	5.1
	57	71.8	77.8	83.7	85.8	86.8	14.0	6.0
	59	70.2	76.3	82.7	84.6	85.9	14.4	6.1
	61	67.7	74.4	81.5	83.4	83.4	15.7	6.7
	63	67.7	74.2	80.7	83.1	84.7	15.4	6.5
	65	68.8	75.1	79.7	84.2	86.5	15.4	6.3
	67	66.4	73.6	79.5	82.6	82.6	16.2	7.2
	69	65.6	73.2	78.3	82.5	82.5	16.9	7.6
	71	63.9	72.1	77.1	81.9	81.9	18.0	8.2
	73	63.4	72.4	76.6	82.0	82.0	18.6	9.0

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 24, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.6	71.8	81.1	79.6	79.6	17.0	9.2
5	65.2	72.7	81.4	80.4	80.4	15.2	7.5
9	63.8	73.1	81.8	80.4	80.4	16.6	9.3
13	67.2	76.4	84.9	83.5	83.5	16.3	9.2
17	71.3	79.2	86.0	86.1	86.1	14.8	7.9
21	74.0	80.1	85.6	87.4	87.4	13.4	6.1
25	69.8	76.7	83.7	84.0	84.0	14.2	6.9
29	66.3	73.9	82.3	81.7	81.7	15.4	7.6
33	64.3	72.0	80.9	79.8	79.8	15.5	7.7
37	64.0	72.2	81.1	79.5	79.5	15.5	8.2
41	65.9	74.4	82.4	81.5	81.5	15.6	8.5
45	69.5	76.9	84.1	84.1	84.1	14.6	7.4
49	67.2	75.6	83.9	82.6	82.6	15.4	8.4
53	64.1	74.1	83.8	80.8	80.8	16.7	10.0
57	70.3	79.4	87.1	86.4	86.4	16.1	9.1
61	70.6	80.2	88.1	87.1	87.1	16.5	9.6
65	69.0	77.6	86.4	85.0	85.0	16.0	8.6
69	65.8	74.4	84.1	82.3	82.3	16.5	8.6
73	63.9	71.9	82.5	80.2	80.2	16.3	8.0
77	66.0	73.8	83.8	82.0	82.0	16.0	7.8
81	65.7	74.8	85.1	82.5	82.5	16.8	9.1
85	67.6	76.1	86.5	83.8	83.8	16.2	8.5
89	71.3	78.3	87.3	85.7	87.2	14.4	7.0
93	72.0	79.1	88.1	86.4	86.4	14.4	7.1
97	73.7	79.2	87.8	87.6	89.1	13.9	5.5
101	77.3	81.3	88.3	89.3	90.6	12.0	4.0
105	76.5	81.2	89.1	89.3	90.7	12.8	4.7
109	78.0	82.5	88.9	90.1	92.4	12.1	4.5
111	79.4	83.9	89.4	91.8	93.5	12.4	4.5
115	78.1	82.8	88.3	90.7	92.6	12.6	4.7
119	76.9	81.9	85.9	90.0	90.0	13.1	5.0
OH → 123	75.5	80.6	85.0	88.8	88.8	13.3	5.1
127 → 126	75.7	81.8	86.9	90.1	90.1	14.4	6.1
131	76.3	81.8	85.4	89.6	91.0	13.3	5.5
135	75.0	80.5	84.4	88.5	90.5	13.5	5.5
139	74.3	79.9	83.6	87.8	89.6	13.5	5.6
143	73.3	78.7	82.5	86.2	87.9	12.9	5.4
147	72.4	77.7	81.9	85.8	87.3	13.4	5.3
151	70.8	76.2	80.1	83.9	85.3	13.1	5.4
155	68.2	74.5	79.5	82.0	82.0	13.8	6.3
159	63.3	70.7	77.9	78.2	78.2	14.9	7.4
163	63.7	71.0	77.8	79.0	79.0	15.3	7.3
167	62.5	71.0	77.8	78.3	78.3	15.8	8.5

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 35, 110 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	5	67.7	77.3	85.3	83.7	83.7	16.0	9.6
	7	70.8	80.1	87.7	86.2	86.2	15.4	9.3
	9	71.5	81.0	88.8	87.4	87.4	15.9	9.5
	11	73.9	82.7	89.8	89.3	89.3	15.4	8.8
	13	80.2	86.4	91.8	93.0	93.0	12.8	6.2
	15	83.3	88.6	93.5	95.4	95.4	12.1	5.3
	17	79.3	87.2	93.9	93.8	93.8	14.5	7.9
	19	78.8	87.4	94.4	94.2	95.3	15.4	8.6
	21	78.1	86.6	94.5	93.7	94.8	15.6	8.5
	23	75.7	84.7	93.9	91.3	91.3	15.6	9.0
	25	77.7	85.6	94.0	92.7	92.7	15.0	7.9
	27	79.3	86.5	94.5	94.3	94.3	15.0	7.2
	28	80.5	86.9	95.0	94.9	96.0	14.4	6.4
	30	82.0	87.3	94.6	95.6	95.6	13.6	5.3
	32	80.6	86.5	92.9	95.0	95.0	14.4	5.9
OH → 35	34	80.8	86.2	90.9	94.2	95.6	13.4	5.4
	36	81.2	86.0	90.3	94.0	94.0	12.8	4.8
	38	80.2	85.6	90.3	94.1	94.1	13.9	5.4
	40	79.7	84.9	89.9	93.3	93.3	13.6	5.2
	42	79.2	84.0	89.1	92.4	92.4	13.2	4.8
	44	78.0	82.9	87.7	90.7	90.7	12.7	4.9
	46	77.4	82.3	86.7	90.2	91.3	12.8	4.9
	48	75.3	80.3	85.8	88.0	89.5	12.7	5.0
	50	73.8	78.6	84.5	86.8	88.4	13.0	4.8
	52	73.2	78.4	85.1	86.7	88.5	13.5	5.2
	54	70.7	76.0	84.1	84.3	85.7	13.6	5.3
	56	68.8	74.4	82.7	82.8	84.7	14.0	5.6
	58	67.4	73.9	81.4	81.9	84.2	14.5	6.5
	60	69.9	76.7	83.1	84.1	85.6	14.2	6.8

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 36, 110 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.6	69.9	78.7	76.7	76.7	16.1	9.3
3	62.2	72.0	80.8	78.4	78.4	16.2	9.8
5	64.0	74.2	83.6	81.3	81.3	17.3	10.2
7	67.9	78.4	87.2	84.4	84.4	16.5	10.5
9	73.3	83.1	90.7	88.8	88.8	15.5	9.8
11	78.8	86.8	93.1	92.9	92.9	14.1	8.0
13	81.1	88.6	94.7	94.9	94.9	13.8	7.5
15	81.1	89.1	95.2	95.2	95.2	14.1	8.0
17	79.6	88.1	94.8	94.7	94.7	15.1	8.5
19	78.1	87.2	94.5	93.7	93.7	15.6	9.1
21	77.4	86.6	94.3	93.5	94.6	16.1	9.2
23	78.3	86.6	94.4	93.7	94.8	15.4	8.3
25	78.9	85.6	93.8	93.2	94.5	14.3	6.7
27	76.9	83.8	92.9	91.7	93.7	14.8	6.9
29	78.7	84.8	93.1	92.5	93.6	13.8	6.1
31	78.9	84.1	91.4	92.5	92.5	13.6	5.2
33	78.0	83.0	88.7	91.6	93.1	13.6	5.0
35	78.5	82.8	86.5	90.8	92.3	12.3	4.3
37	78.8	83.2	86.7	91.7	91.7	12.9	4.4
OH → 39 → 40	79.7	84.1	88.1	92.3	92.3	12.6	4.4
41	79.9	84.2	87.5	92.0	93.2	12.1	4.3
43	78.3	82.8	85.2	90.5	91.5	12.2	4.5
45	76.8	81.2	83.8	88.5	88.5	11.7	4.4
47	75.3	79.3	82.8	86.9	88.7	11.6	4.0
49	73.3	77.4	81.4	85.1	86.2	11.8	4.1
51	71.0	75.5	79.5	83.3	84.7	12.3	4.5
53	68.9	73.5	78.4	81.7	83.1	12.8	4.6
55	67.0	71.9	77.0	80.0	80.0	13.0	4.9
57	65.5	70.6	75.9	78.8	80.7	13.3	5.1

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 44, 110 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	61.7	70.5	79.2	77.0	77.0	15.3	8.8
	3	61.7	71.2	80.6	77.8	77.8	16.1	9.5
	5	64.7	74.4	83.8	80.9	80.9	16.2	9.7
	7	68.7	78.4	87.0	85.3	85.3	16.6	9.7
	9	72.9	82.5	90.2	88.9	88.9	16.0	9.6
	11	75.9	85.1	92.2	91.4	91.4	15.5	9.2
	13	78.6	87.4	93.9	93.0	93.0	14.4	8.8
	15	79.9	88.7	95.0	94.4	94.4	14.5	8.8
	16	80.3	89.2	95.3	94.7	94.7	14.4	8.9
	18	79.4	88.3	94.8	94.1	94.1	14.7	8.9
	20	78.2	87.3	94.3	93.5	93.5	15.3	9.1
	22	77.4	86.9	94.3	93.2	93.2	15.8	9.5
	24	76.5	86.2	94.3	92.3	93.3	15.8	9.7
	26	75.4	84.7	93.2	91.7	92.9	16.3	9.3
	28	76.1	84.5	93.2	91.8	91.8	15.7	8.4
	30	78.3	85.4	93.6	92.9	92.9	14.6	7.1
	32	77.8	84.0	92.4	91.8	91.8	14.0	6.2
	34	78.1	83.5	91.3	91.8	93.3	13.7	5.4
	36	79.3	84.1	89.2	92.1	92.1	12.8	4.8
	38	79.9	84.0	86.4	91.9	91.9	12.0	4.1
OH →	40	79.0	83.5	86.9	91.7	92.7	12.7	4.5
	42	78.1	83.0	87.3	90.9	90.9	12.8	4.9
	44	77.9	82.4	85.4	90.2	90.2	12.3	4.5
	46	77.0	81.5	83.7	88.8	88.8	11.8	4.5
	48	75.8	80.4	83.2	88.5	90.3	12.7	4.6
	50	73.7	78.7	81.9	86.2	87.7	12.5	5.0
	52	72.7	77.2	80.8	84.8	86.2	12.1	4.5
	54	68.9	73.6	79.3	81.3	82.5	12.4	4.7
	56	66.6	71.6	77.8	79.4	80.9	12.8	5.0
	58	64.9	69.7	76.3	78.3	80.3	13.4	4.8
	60	64.3	69.3	76.3	77.6	77.6	13.3	5.0

TABLE - E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 45, 110 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	63.7	73.6	81.7	83.3	83.3	19.6	9.9
	2	65.2	74.4	82.1	83.7	83.7	18.5	9.2
	3	65.7	74.7	82.8	84.1	84.1	18.4	9.0
	4	66.6	75.6	84.1	84.6	84.6	18.0	9.0
	5	66.8	76.3	85.2	85.6	85.6	18.8	9.5
	6	68.3	77.6	86.6	86.4	86.4	18.1	9.3
	7	70.4	79.7	88.9	88.3	88.3	17.9	9.3
	8	73.9	83.2	91.6	91.3	91.3	17.4	9.3
	9	76.3	85.9	93.9	93.5	93.5	17.2	9.6
	10	77.4	87.1	95.0	94.6	94.6	17.2	9.7
	11	77.2	87.2	95.0	94.6	94.6	17.4	10.0
	12	76.0	86.3	94.4	93.6	93.6	17.6	10.3
	13	74.7	85.1	93.5	92.7	92.7	18.0	10.4
	14	73.8	84.0	92.9	92.0	92.0	18.2	10.2
	15	73.7	83.5	92.9	91.7	91.7	18.0	9.8
	16	73.8	83.1	92.6	91.9	91.9	18.1	9.3
	17	73.0	82.2	91.8	91.2	91.2	18.2	9.2
	18	71.8	80.9	90.6	90.1	90.1	18.3	9.1
	19	71.9	80.3	90.0	89.5	90.6	17.6	8.4
	20	73.7	80.8	89.9	89.8	91.1	16.1	7.1
	21	74.2	80.5	89.3	89.7	89.7	15.5	6.3
	22	74.1	79.7	88.0	89.1	89.1	15.0	5.6
	23	74.2	79.2	86.5	88.5	89.6	14.3	5.0
	24	74.9	80.0	85.4	88.7	88.7	13.8	5.1
	25	77.0	81.4	85.3	89.9	89.9	12.9	4.4
	26	78.5	82.6	85.5	90.6	90.8	12.3	4.1
	27	79.0	83.0	85.8	91.3	91.3	12.3	4.0
OH →	28	78.9	83.4	86.2	91.8	91.8	12.9	4.5
	29	78.9	83.6	87.0	92.0	92.0	13.1	4.7
	30	79.0	83.4	87.1	91.7	91.7	12.7	4.4
	31	79.1	83.2	86.8	91.3	91.3	12.2	4.1
	32	78.1	82.3	85.5	90.2	90.2	12.1	4.2
	33	77.0	81.6	84.2	89.5	89.5	12.5	4.6
	34	75.2	80.1	82.8	88.2	88.2	13.0	4.9
	35	75.4	80.0	82.1	88.4	88.4	13.0	4.6
	36	75.8	80.5	82.1	88.6	88.6	12.8	4.7
	37	75.3	80.2	82.0	88.1	89.3	12.8	4.9
	38	73.9	79.3	81.5	87.3	88.9	13.4	5.4
	39	72.9	78.0	80.5	86.6	88.3	13.7	5.1
	40	72.3	77.3	79.5	86.1	87.7	13.8	5.0
	41	71.3	76.4	79.1	85.1	86.4	13.8	5.1
	42	69.3	74.8	78.8	83.8	85.2	14.5	5.5
	43	67.9	73.6	78.6	83.1	84.3	15.2	5.7
	44	67.4	73.3	78.3	82.9	84.2	15.5	5.9

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 24, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.5	79.4	85.5	84.7	84.7	14.2	8.9
3	70.4	79.5	85.4	84.9	84.9	14.5	9.1
5	72.4	80.4	85.8	85.5	85.5	13.1	8.0
7	72.7	80.6	85.9	86.3	88.1	13.6	7.9
9	72.1	80.8	86.9	86.4	87.8	14.3	8.7
11	72.5	80.9	87.0	86.3	87.7	13.8	8.4
13	72.8	81.2	87.3	86.4	87.7	13.6	8.4
15	71.9	81.2	87.3	86.0	86.0	14.1	9.3
17	73.8	82.2	87.9	87.7	87.7	13.9	8.4
19	76.0	83.7	87.8	89.3	90.3	13.3	7.7
21	75.7	83.9	88.6	89.1	89.1	13.4	8.2
23	75.2	82.8	88.5	88.3	88.3	13.1	7.6
25	78.0	85.1	88.9	91.4	91.4	13.4	7.1
27	78.1	84.7	88.6	91.0	91.0	12.9	6.6
29	73.6	81.4	87.7	87.5	87.5	13.9	7.8
31	71.0	79.8	87.3	85.8	85.8	14.8	8.8
33	72.8	81.1	88.4	87.0	87.0	14.2	8.3
35	77.5	84.8	89.9	90.8	91.9	13.3	7.3
37	77.9	85.2	90.7	91.3	92.8	13.4	7.3
39	78.1	85.4	90.7	91.7	91.7	13.6	7.3
41	78.3	85.9	90.9	91.7	92.9	13.4	7.6
43	78.9	86.4	91.0	92.1	93.6	13.2	7.5
45	80.3	87.4	91.2	92.8	94.0	12.5	7.1
47	80.5	87.7	91.9	94.0	94.0	13.5	7.2
49	81.9	88.9	92.3	95.2	95.2	13.3	7.0
51	82.1	90.2	93.2	95.9	95.9	13.8	8.1
53	82.7	90.7	93.8	96.3	96.3	13.6	8.0
55	83.6	91.8	94.3	97.5	97.5	13.9	8.2
57	82.4	90.7	93.8	96.7	96.7	14.3	8.3
59	83.7	91.8	94.3	97.4	97.4	13.7	8.1
60	84.2	92.3	95.0	98.0	98.0	13.8	8.1
OH → 62 → 63	82.6	91.1	94.8	97.4	97.4	14.8	8.5
64	81.1	89.6	94.2	95.5	95.5	14.4	8.5
66	81.0	90.0	94.4	95.6	95.6	14.6	9.0
68	81.0	90.1	94.1	95.8	95.8	14.8	9.1
70	80.3	89.4	93.5	95.4	95.4	15.1	9.1
72	79.6	88.3	92.1	94.3	94.3	14.7	8.7
74	79.4	88.1	91.7	94.0	94.0	14.6	8.7
76	78.0	86.5	90.1	92.9	92.9	14.9	8.5
78	77.6	85.6	88.9	91.8	91.8	14.2	8.0
80	77.1	84.8	88.1	90.6	90.6	13.5	7.7
82	75.2	82.9	87.2	88.2	90.0	13.0	7.7
84	72.2	80.2	85.5	85.4	86.5	13.2	8.0
86	70.3	78.3	84.4	83.9	85.2	13.6	8.0

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 27, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.3	78.8	84.9	84.8	86.0	14.5	8.5
3	74.5	81.1	85.6	87.2	88.5	12.7	6.6
5	74.2	81.6	86.0	88.0	89.1	13.8	7.4
7	76.2	83.0	86.9	89.4	89.4	13.2	6.8
9	75.4	82.4	86.9	88.8	88.8	13.4	7.0
11	74.4	81.7	87.0	87.8	87.8	13.4	7.3
13	74.8	82.2	87.2	88.1	90.0	13.3	7.4
15	76.4	83.1	87.7	89.4	91.7	13.0	6.7
17	77.8	85.0	88.2	90.7	92.9	12.9	7.2
19	78.2	85.1	88.5	91.4	93.2	13.2	6.9
21	78.7	85.7	89.0	91.1	92.5	12.4	7.0
23	78.6	86.1	89.7	91.3	92.8	12.7	7.5
25	79.9	87.2	90.4	92.7	92.7	12.8	7.3
27	82.8	89.5	91.3	94.3	94.3	11.5	6.7
29	80.9	88.3	90.9	93.2	94.6	12.3	7.4
31	82.2	89.6	91.5	94.2	94.2	12.0	7.4
33	82.6	90.0	92.0	94.8	94.8	12.2	7.4
35	82.3	90.1	92.3	94.8	95.8	12.5	7.8
37	83.2	91.2	92.9	96.3	97.5	13.1	8.0
39	83.4	90.8	92.9	96.2	96.2	12.8	7.4
41	83.8	91.3	93.7	97.0	97.0	13.2	7.5
43	84.9	93.0	95.0	98.5	98.5	13.6	8.1
45	84.7	92.8	95.0	98.1	98.1	13.4	8.1
47	85.2	93.4	95.5	99.1	99.1	13.9	8.2
48	85.1	93.4	95.8	99.3	99.3	14.2	8.3
50	83.3	92.0	95.4	98.0	98.0	14.7	8.7
OH → 52 → 53	81.5	90.2	94.3	96.3	96.3	14.8	8.7
54	81.7	90.2	94.6	96.4	96.4	14.7	8.5
56	81.8	90.3	94.9	96.4	96.4	14.6	8.5
58	81.6	90.3	94.6	96.1	96.1	14.5	8.7
60	82.0	90.8	94.5	96.5	96.5	14.5	8.8
62	81.8	90.7	94.0	96.5	96.5	14.7	8.9
64	80.9	89.4	92.3	95.6	95.6	14.7	8.5
66	81.2	89.2	91.2	94.5	94.5	13.3	8.0
68	80.6	88.5	90.5	93.6	93.6	13.0	7.9
70	77.1	85.4	88.5	91.0	91.0	13.9	8.3
72	76.1	84.3	87.3	89.4	91.2	13.3	8.2
74	74.9	82.3	85.6	88.0	89.5	13.1	7.4
76	76.4	83.4	85.3	89.2	90.7	12.8	7.0
78	70.8	78.3	83.4	84.2	84.2	13.4	7.5
80	70.1	78.0	82.2	83.3	83.3	13.2	7.9
82	69.0	77.5	81.9	83.2	84.3	14.2	8.5
84	66.8	76.0	81.2	81.6	82.6	14.8	9.2

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 29, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	63.0	72.7	78.7	79.3	79.3	16.3	9.7
5	65.3	75.3	80.5	80.8	80.8	15.5	10.0
9	67.7	77.1	82.5	82.5	82.5	14.8	9.4
13	68.9	78.2	83.5	83.4	83.4	14.5	9.3
17	69.2	79.2	84.0	84.8	84.8	15.6	10.0
21	67.1	77.4	82.7	82.9	82.9	15.8	10.3
25	65.9	76.0	82.2	81.7	81.7	15.8	10.1
29	68.6	76.5	81.7	82.5	82.5	13.9	7.9
33	68.5	77.1	81.8	82.6	82.6	14.1	8.6
37	67.2	76.3	82.2	82.1	82.1	14.9	9.1
41	67.1	77.5	83.4	82.8	82.8	15.7	10.4
45	69.1	79.4	84.8	84.5	84.5	15.4	10.3
49	68.4	79.2	85.2	84.2	84.2	15.8	10.8
53	67.7	79.0	85.3	83.6	83.6	15.9	11.3
57	68.8	79.5	86.0	84.3	85.5	15.5	10.7
61	71.3	82.7	88.3	87.1	87.1	15.8	11.4
65	68.8	79.6	85.9	84.8	84.8	16.0	10.8
69	70.3	80.8	86.9	86.3	86.3	16.0	10.5
73	68.3	79.6	86.5	84.6	84.6	16.3	11.3
77	69.3	78.9	86.0	84.6	85.7	15.3	9.6
81	71.4	80.7	87.8	86.1	87.7	14.7	9.3
85	76.8	84.5	90.0	90.7	90.7	13.9	7.7
89	76.7	84.2	90.0	90.7	92.1	14.0	7.5
93	76.3	83.9	89.8	90.1	90.1	13.8	7.6
97	76.8	84.6	90.4	90.7	92.0	13.9	7.8
101	77.3	85.5	90.6	92.1	92.1	14.8	8.2
104	78.9	87.0	91.4	93.3	93.3	14.4	8.1
108	78.7	87.0	91.3	92.8	92.8	14.1	8.3
OH → 112 → 114	78.2	86.1	90.5	92.1	92.1	13.9	7.9
116	77.2	84.4	89.5	90.9	90.9	13.7	7.2
120	75.7	83.4	87.7	89.5	89.5	13.8	7.7
124	74.0	82.0	85.8	88.1	88.1	14.1	8.0
128	73.9	81.5	84.5	87.3	88.7	13.4	7.6
132	72.5	80.5	83.8	86.2	87.8	13.7	8.0
136	69.7	77.6	82.5	83.8	83.8	14.1	7.9
140	68.3	76.4	81.3	82.2	83.8	13.9	8.1
144	67.4	75.9	80.1	82.1	82.1	14.7	8.5
148	66.4	74.4	79.0	80.2	81.9	13.8	8.0
152	66.7	74.6	78.7	80.9	83.0	14.2	7.9
156	64.0	72.6	77.9	78.5	80.2	14.5	8.6
160	60.8	70.2	76.3	76.5	78.0	15.7	9.4
164	58.0	69.3	76.1	76.0	76.0	18.0	11.3

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 30, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.5	72.5	80.0	78.4	78.4	16.9	11.0
4	63.0	74.0	81.1	79.5	79.5	16.5	11.0
7	63.2	74.9	81.9	80.3	80.3	17.1	11.7
10	66.7	78.4	84.8	83.2	83.2	16.5	11.7
13	66.3	78.8	85.3	83.2	83.2	16.9	12.5
16	65.5	77.4	84.6	82.3	82.3	16.8	11.9
19	67.2	78.2	84.9	83.1	83.1	15.9	11.0
22	72.3	80.1	85.8	85.7	85.7	13.4	7.8
25	74.1	81.4	86.6	87.0	88.0	12.9	7.3
28	72.7	81.5	87.4	86.7	86.7	14.0	8.8
31	71.1	80.0	86.9	85.7	85.7	14.6	8.9
34	73.6	81.1	87.0	87.3	87.3	13.7	7.5
37	76.1	83.1	88.0	89.3	91.1	13.2	7.0
40	76.5	83.8	88.5	90.6	90.6	14.1	7.3
43	74.7	83.0	89.2	88.9	90.5	14.2	8.3
46	76.5	84.4	89.9	90.4	90.4	13.9	7.9
49	78.7	86.5	91.0	92.9	92.9	14.2	7.8
50	79.3	87.0	91.0	93.0	93.0	13.7	7.7
53	77.9	85.3	89.9	91.4	91.4	13.5	7.4
OH → 56	77.2	84.8	89.1	90.7	90.7	13.5	7.6
59	75.5	82.4	88.0	88.6	88.6	13.1	6.9
62	75.4	82.9	86.4	89.2	89.2	13.8	7.5
65	73.4	81.2	83.8	86.8	88.4	13.4	7.8
68	72.6	80.0	81.8	86.0	88.5	13.4	7.4
71	68.3	76.2	79.4	81.7	83.3	13.4	7.9
74	67.3	75.0	78.3	81.7	84.5	14.4	7.7
77	63.8	72.0	77.5	79.0	81.7	15.2	8.2
80	64.7	72.6	76.7	79.5	82.5	14.8	7.9
83	62.9	71.3	75.7	78.3	81.0	15.4	8.4
86	64.8	72.8	75.8	79.4	82.3	14.6	8.0
89	69.8	77.0	75.8	83.3	86.5	13.5	7.2
92	68.3	76.5	75.9	82.0	84.9	13.7	8.2
95	65.3	74.2	74.9	80.4	83.6	15.1	8.9
98	65.3	74.3	74.8	80.5	83.2	15.2	9.0
101	64.1	73.4	75.0	79.7	82.0	15.6	9.3

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 31, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.0	70.7	79.4	76.6	76.6	16.6	10.7
4	61.3	72.9	81.0	78.3	78.3	17.0	11.6
7	63.9	75.6	82.8	80.7	80.7	16.8	11.7
10	66.7	77.6	84.1	82.8	82.8	16.1	10.9
13	69.2	79.2	84.8	84.3	84.3	15.1	10.0
16	68.6	78.4	84.1	84.0	84.0	15.4	9.8
19	67.9	78.2	83.8	83.6	83.6	15.7	10.3
22	68.4	79.1	84.6	84.3	84.3	15.9	10.7
25	68.4	79.4	85.2	84.4	84.4	16.0	11.0
28	67.3	78.3	84.3	83.5	83.5	16.2	11.0
31	65.2	76.6	83.7	81.6	81.6	16.4	11.4
34	66.8	77.8	84.5	82.8	82.8	16.0	11.0
37	68.0	78.4	84.8	83.8	83.8	15.8	10.4
40	68.2	78.3	84.9	83.9	83.9	15.7	10.1
43	67.3	78.2	85.4	83.3	83.3	16.0	10.9
46	68.8	79.4	86.1	84.2	84.2	15.4	10.6
49	69.8	79.7	86.4	85.5	85.5	15.7	9.9
52	69.5	79.5	86.1	84.7	86.6	15.2	10.0
55	68.5	79.2	86.2	84.3	85.6	15.8	10.7
58	75.0	82.2	87.4	88.0	88.0	13.0	7.2
61	73.3	81.6	87.6	87.2	89.1	13.9	8.3
64	77.1	83.6	88.6	90.0	92.2	12.9	6.5
67	77.8	85.8	90.0	91.7	91.7	13.9	8.0
70	77.7	84.9	90.0	91.6	91.6	13.9	7.2
73	74.2	82.0	89.1	88.0	89.4	13.8	7.8
76	77.3	84.9	90.4	90.8	92.2	13.5	7.6
79	78.1	85.3	90.3	91.2	91.2	13.1	7.2
82	77.1	85.3	90.2	91.3	91.3	14.2	8.2
85	78.2	86.2	90.1	91.9	91.9	13.7	8.0
88	78.5	85.8	90.2	91.7	91.7	13.2	7.3
91	78.8	86.2	90.7	92.4	92.4	13.6	7.4
OH 92→94	78.7	86.2	90.9	92.7	92.7	14.0	7.5
95	77.0	84.1	90.1	90.4	90.4	13.4	7.1
98	75.3	83.0	88.4	89.2	89.2	13.9	7.7
101	74.9	82.7	86.7	88.7	88.7	13.8	7.8
104	75.1	82.7	86.7	88.5	88.5	13.4	7.6
107	73.6	81.2	84.9	87.3	87.3	13.7	7.6
110	73.9	81.3	84.0	87.0	88.3	13.1	7.4
113	72.7	80.3	83.0	85.6	87.1	12.9	7.6
116	69.8	78.0	82.0	83.3	84.4	13.5	8.2
119	68.3	76.2	81.0	81.9	83.4	13.6	7.9
122	69.6	77.0	79.8	83.0	85.0	13.4	7.4
125	62.1	71.0	78.1	76.8	77.9	14.7	8.9

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 32, 99 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	68.4	79.9	85.7	83.8	83.8	15.4	11.5
3	76.7	87.4	91.6	91.0	91.0	14.3	10.7
5	77.3	88.2	92.6	91.8	91.8	14.5	10.9
7	76.1	87.5	92.8	91.4	91.4	15.3	11.4
9	72.7	85.4	91.9	89.3	89.3	16.6	12.7
11	71.3	83.3	90.4	87.7	87.7	16.4	12.0
13	73.7	84.8	90.7	88.6	88.6	14.9	11.1
15	75.3	86.4	91.6	90.3	90.3	15.0	11.1
17	74.3	85.9	91.4	90.1	90.1	15.8	11.6
19	74.8	86.4	92.0	90.5	91.8	15.7	11.6
21	75.0	86.5	92.5	91.1	91.1	16.1	11.5
23	74.6	86.3	92.9	91.1	93.0	16.5	11.7
25	75.0	85.9	92.9	90.9	92.5	15.9	10.9
27	78.9	87.3	93.1	93.0	93.0	14.1	8.4
29	80.5	88.4	93.2	94.3	94.3	13.8	7.9
31	81.9	89.1	93.1	94.9	95.9	13.0	7.2
33	82.6	89.8	92.9	95.9	95.9	13.3	7.2
35	83.7	90.8	92.9	97.2	97.2	13.5	7.1
37	82.6	89.8	91.5	96.0	96.0	13.4	7.2
OH→39	79.7	87.7	90.6	93.6	93.6	13.9	8.0
41	77.6	85.6	89.9	92.1	92.1	14.5	8.0
43	75.8	83.5	88.3	90.0	90.0	14.2	7.7
45	75.3	82.6	86.8	88.6	88.6	13.3	7.3
47	75.5	82.4	85.4	88.9	90.8	13.4	6.9
49	74.3	81.5	84.1	88.0	90.5	13.7	7.2
51	73.0	80.1	83.0	86.6	89.3	13.6	7.1
53	70.5	77.9	82.3	84.2	86.9	13.7	7.4
55	69.3	77.0	81.2	83.1	85.4	13.8	7.7
57	69.8	77.1	79.9	83.3	85.8	13.5	7.3
59	65.7	73.2	78.2	79.7	81.8	14.0	7.5

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 33, 99 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	63.7	74.2	83.0	80.6	80.6	16.9	10.5
5	67.1	77.0	85.2	83.6	83.6	16.5	9.9
7	69.3	78.7	86.6	85.4	85.4	16.1	9.4
9	70.5	80.6	88.2	86.8	86.8	16.3	10.1
11	74.1	84.2	91.2	90.2	90.2	16.1	10.1
13	78.3	87.6	93.6	93.1	93.1	14.8	9.3
15	80.4	89.1	94.6	94.7	94.7	14.3	8.7
17	79.9	88.6	94.4	94.4	94.4	14.5	8.7
19	76.5	86.0	92.9	91.6	91.6	15.1	9.5
21	72.7	82.6	90.5	88.6	88.6	15.9	9.9
23	72.8	82.4	90.0	88.1	88.1	15.3	9.6
25	73.7	83.5	91.0	89.6	89.6	15.9	9.8
27	75.6	84.8	92.2	91.4	91.4	15.8	9.2
29	77.3	85.2	92.6	92.3	92.3	15.0	7.9
31	76.3	84.4	92.3	91.5	92.6	15.2	8.1
33	72.2	82.2	91.1	88.8	88.8	16.6	10.0
35	73.5	81.7	90.8	88.9	90.3	15.4	8.2
37	77.5	84.0	91.6	91.4	91.4	13.9	6.5
39	78.0	84.4	92.1	91.9	92.9	13.9	6.4
41	78.6	85.0	91.9	92.7	92.7	14.1	6.4
43	80.7	87.0	92.0	94.9	94.9	14.2	6.3
44	81.2	87.3	91.8	95.5	95.5	14.3	6.1
OH 46→47	79.8	86.0	90.6	94.2	94.2	14.4	6.2
48	78.4	85.0	89.8	92.7	92.7	14.3	6.6
50	77.2	83.3	89.7	91.7	91.7	14.5	6.1
52	75.3	81.2	88.1	89.2	89.2	13.9	5.9
54	74.1	80.1	86.2	87.6	88.6	13.5	6.0
56	73.9	79.6	84.7	87.6	89.7	13.7	5.7
58	73.2	79.0	84.1	87.3	90.2	14.1	5.8
60	72.8	78.8	83.7	87.0	89.7	14.2	6.0
62	71.5	77.3	82.5	85.3	87.8	13.8	5.8
64	67.6	73.8	80.6	81.7	84.2	14.1	6.2
66	66.0	72.9	79.7	80.5	82.3	14.5	6.9
68	68.5	74.4	79.1	82.8	86.1	14.3	5.9
70	65.4	71.4	77.9	79.9	82.8	14.5	6.0
72	62.9	69.6	77.7	77.4	79.2	14.5	6.7
74	64.8	70.6	76.4	79.4	82.6	14.6	5.8
76	63.7	69.7	75.0	78.5	82.1	14.8	6.0

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 34, 99 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	63.9	73.3	81.4	80.5	80.5	16.6	9.4
	3	62.9	73.3	82.5	80.3	80.3	17.4	10.4
	5	64.4	75.6	84.5	81.9	81.9	17.5	11.2
	7	68.2	79.1	87.3	85.1	85.1	16.9	10.9
	9	71.5	82.0	89.6	87.8	87.8	16.3	10.5
	11	74.3	83.9	91.0	89.8	89.8	15.5	9.6
	13	77.6	86.2	92.6	92.0	92.0	14.4	8.6
	15	80.1	88.8	94.7	94.5	94.5	14.4	8.7
	17	78.4	87.9	94.6	93.6	94.7	15.2	9.5
	19	74.3	84.2	92.2	90.1	90.1	15.8	9.9
	21	73.8	83.4	91.1	89.3	89.3	15.5	9.6
	23	73.8	83.7	91.0	89.6	89.6	15.8	9.9
	25	73.9	83.8	91.8	90.1	90.1	16.2	9.9
	27	73.5	84.2	92.5	90.0	91.0	16.5	10.7
	29	74.6	84.6	93.0	91.0	91.0	16.4	10.0
	31	74.9	84.5	93.1	91.4	91.4	16.5	9.6
	33	75.0	83.6	92.8	90.6	92.0	15.6	8.6
	35	76.9	84.5	93.0	91.4	91.4	14.5	7.6
	37	78.4	85.2	93.2	92.6	93.8	14.2	6.8
	39	79.6	86.1	93.2	94.0	94.0	14.4	6.5
	41	80.5	86.7	92.3	95.0	95.0	14.5	6.2
	43	81.5	87.4	91.3	95.4	95.4	13.9	5.9
OH →	45	80.9	86.6	90.7	94.3	94.3	13.4	5.7
	47	77.8	83.9	89.6	92.1	92.1	14.3	6.1
	49	76.8	82.5	88.2	90.4	90.4	13.6	5.7
	51	76.3	82.0	86.9	89.6	90.8	13.3	5.7
	53	75.6	81.3	86.1	89.3	91.7	13.7	5.7
	55	74.6	80.4	84.5	88.6	91.8	14.0	5.8
	57	71.7	77.7	81.9	85.9	88.8	14.2	6.0
	59	69.6	75.7	81.8	83.9	86.1	14.3	6.1
	61	68.8	74.6	80.9	82.8	85.3	14.0	5.8
	63	66.0	71.9	80.0	80.4	82.9	14.4	5.9
	65	64.6	70.6	78.8	78.4	80.2	13.8	6.0
	67	60.3	68.0	77.2	75.7	78.1	15.4	7.7

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 35, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	DASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.5	76.0	83.7	82.4	82.4	15.9	9.5
3	66.5	76.0	84.1	82.6	82.6	16.1	9.5
5	67.4	77.0	85.2	83.4	83.4	16.0	9.6
7	72.2	81.7	88.8	87.6	87.6	15.4	9.5
9	77.0	85.9	92.1	91.4	91.4	14.4	8.9
11	80.4	89.0	94.5	94.2	94.2	13.8	8.6
13	81.4	89.8	95.6	95.8	95.8	14.4	8.4
15	79.9	89.0	95.5	95.0	95.0	15.1	9.1
17	78.4	87.8	95.1	93.9	93.9	15.5	9.4
19	79.5	88.4	95.2	94.4	94.4	14.9	8.9
21	79.4	88.3	94.6	94.2	94.2	14.8	8.9
23	77.9	86.8	93.8	93.0	93.0	15.1	8.9
25	78.2	87.0	94.0	93.2	93.2	15.0	8.8
27	76.3	86.0	94.0	92.2	92.2	15.9	9.7
29	76.2	85.9	94.2	92.2	92.2	16.0	9.7
31	78.2	86.7	94.7	93.3	94.6	15.1	8.5
33	80.2	87.2	94.9	94.2	95.4	14.0	7.0
35	82.3	88.9	95.7	96.0	96.0	13.7	6.6
37	83.3	89.6	95.4	97.4	97.4	14.1	6.3
39	83.5	89.3	94.0	97.6	97.6	14.1	5.8
40	83.9	89.5	93.3	97.9	97.9	14.0	5.6
42	83.2	88.9	92.2	97.0	97.0	13.8	5.7
OH → 43							
44	80.2	86.4	91.2	94.4	94.4	14.2	6.2
46	77.8	83.8	90.0	91.8	91.8	14.0	6.0
48	78.4	84.2	90.0	92.1	93.4	13.7	5.8
50	77.4	83.2	88.4	91.4	93.3	14.0	5.8
52	74.7	80.4	85.9	88.5	90.5	13.8	5.7
54	73.3	79.2	85.2	87.1	89.2	13.8	5.9
56	73.0	79.1	85.7	87.3	89.5	14.3	6.1
58	70.6	76.9	83.8	85.2	87.9	14.6	6.3
60	69.9	77.7	85.7	85.1	87.6	15.2	7.8
62	69.5	78.6	87.0	86.5	88.7	17.0	9.1
64	69.1	77.8	85.8	85.3	87.9	16.2	8.7
66	66.2	73.7	81.2	80.8	83.3	14.6	7.5
68	67.0	73.6	80.6	81.3	83.2	14.3	6.6
70	65.7	73.4	81.4	80.8	82.0	15.1	7.7

TABLE-E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 36, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	68.9	78.1	84.9	84.7	84.7	15.8	9.2
	3	69.8	79.3	86.7	85.8	85.8	16.0	9.5
	5	70.0	80.2	88.0	86.3	86.3	16.3	10.2
	7	74.2	83.8	90.8	89.6	89.6	15.4	9.6
	9	78.9	87.6	93.5	93.2	93.2	14.3	8.7
	11	80.0	88.3	93.8	94.2	94.2	14.2	8.3
	13	77.6	86.4	92.7	92.1	92.1	14.5	8.8
	15	76.6	85.6	92.0	91.2	91.2	14.6	9.0
	17	77.1	86.2	92.6	91.7	91.7	14.6	9.1
	19	76.5	86.1	93.0	91.8	91.8	15.3	9.6
	21	78.7	88.1	94.4	93.5	93.5	14.8	9.4
	23	78.4	87.8	94.5	93.6	93.6	15.2	9.4
	25	78.2	87.2	94.3	93.8	95.1	15.6	9.0
	27	79.0	88.2	95.1	94.5	96.4	15.5	9.2
	29	78.9	87.9	95.2	94.8	94.8	15.9	9.0
	31	79.5	87.5	95.5	94.7	94.7	15.2	8.0
	33	80.1	87.4	95.3	94.8	95.9	14.7	7.3
	35	82.1	88.4	95.4	95.8	95.8	13.7	6.3
	37	85.6	91.4	96.1	99.5	99.5	13.9	5.8
	38	86.0	91.8	95.7	99.9	99.9	13.9	5.8
	40	84.1	89.9	92.9	98.0	98.0	13.9	5.8
OH →	42	81.9	88.0	90.9	95.4	95.4	13.5	6.1
	44	79.2	85.2	88.8	93.4	93.4	14.2	6.0
	46	77.9	83.3	86.3	91.0	91.0	13.1	5.4
	48	77.1	82.2	86.1	90.4	92.3	13.3	5.1
	50	75.9	81.2	85.9	89.1	90.7	13.2	5.3
	52	74.5	79.7	84.5	87.7	89.0	13.2	5.2
	54	71.6	77.0	81.5	85.3	87.4	13.7	5.4
	56	73.3	78.4	80.5	86.2	88.3	12.9	5.1
	58	70.1	75.0	79.0	83.1	84.8	13.0	4.9

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 37, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	68.1	77.1	84.7	84.0	84.0	15.9	9.0
2	69.7	79.3	86.7	85.8	85.8	16.1	9.6
3	72.4	81.7	88.6	87.9	87.9	15.5	9.3
4	74.6	83.8	90.4	90.4	91.8	15.8	9.2
5	77.0	85.7	92.0	92.2	92.2	15.2	8.7
6	78.7	86.7	93.2	93.3	93.3	14.6	8.0
7	81.2	88.4	94.6	94.8	94.8	13.6	7.2
8	82.4	89.7	95.7	96.3	96.3	13.9	7.3
9	83.3	90.9	96.5	97.3	97.3	14.0	7.6
10	82.8	91.1	96.9	97.2	97.2	14.4	8.3
11	82.0	90.5	96.4	96.4	96.4	14.4	8.5
12	81.4	89.8	95.9	95.6	95.6	14.2	8.4
13	81.9	90.1	95.3	96.0	96.0	14.1	8.2
14	82.5	90.5	95.6	96.5	96.5	14.0	8.0
15	83.0	91.2	96.2	97.0	97.0	14.0	8.2
16	82.7	91.1	96.6	96.9	96.9	14.2	8.4
17	82.5	91.3	97.1	96.9	96.9	14.4	8.8
18	81.9	90.6	97.0	96.9	96.9	15.0	8.7
19	82.0	90.3	97.0	96.7	96.7	14.7	8.3
20	81.7	89.9	96.9	96.5	96.5	14.8	8.2
21	81.3	89.5	96.8	96.1	97.2	14.8	8.2
22	81.3	89.3	96.7	96.3	96.3	15.0	8.0
23	82.1	89.3	96.4	96.3	97.4	14.2	7.2
24	83.3	89.9	96.6	97.5	97.5	14.2	6.6
25	83.5	89.9	96.4	97.4	97.4	13.9	6.4
26	84.2	90.3	96.5	97.9	97.9	13.7	6.1
27	84.1	90.2	96.2	97.8	97.8	13.7	6.1
28	84.9	90.9	96.1	98.5	98.5	13.6	6.0
29	84.6	90.9	95.8	98.8	98.8	14.2	6.3
30	85.5	91.7	96.1	100.1	100.1	14.6	6.2
31	85.5	91.7	95.8	100.2	100.2	14.7	6.2
32	84.9	91.1	94.8	99.4	99.4	14.5	6.2
OH → 33	82.9	89.3	92.9	96.7	96.7	13.8	6.4
34	80.6	87.1	91.2	94.8	94.8	14.2	6.5
35	78.8	85.1	89.9	93.1	93.1	14.3	6.3
36	77.7	83.8	88.9	91.8	91.8	14.1	6.1
37	77.1	83.2	88.6	90.9	90.9	13.8	6.1
38	76.6	82.6	88.2	90.3	91.4	13.7	6.0
39	76.1	81.9	87.3	89.8	91.2	13.7	5.8
40	75.4	81.3	86.4	89.5	91.6	14.1	5.9
41	74.9	80.8	85.7	89.1	91.6	14.2	5.9
42	73.7	79.7	84.8	88.0	90.5	14.3	6.0
43	73.0	78.8	83.7	86.9	89.4	13.9	5.8

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 38, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	3	71.0	79.0	82.2	87.0	87.0	16.0	8.0
	5	72.1	80.7	84.8	88.2	88.2	16.1	8.6
	7	73.0	83.0	89.1	90.3	90.3	17.3	10.0
	9	81.7	89.6	94.8	96.6	96.6	14.9	7.9
	11	85.8	93.7	98.2	99.6	99.6	13.8	7.9
	13	84.5	93.5	98.8	99.6	99.6	15.1	9.0
	15	85.5	94.1	99.1	100.0	100.0	14.5	8.6
	17	85.1	94.0	99.4	100.0	100.0	14.9	8.9
	19	83.7	93.1	99.2	99.1	99.1	15.4	9.4
	21	84.5	93.9	99.7	100.1	101.1	15.6	9.4
	23	86.0	94.7	100.2	101.3	101.3	15.3	8.7
	25	85.3	94.3	100.1	100.5	101.6	15.2	9.0
	27	82.5	92.3	99.2	98.4	98.4	15.9	9.8
	29	81.7	91.3	99.1	98.3	98.3	16.6	9.6
	31	83.6	91.8	99.6	98.8	98.8	15.2	8.2
	33	85.3	92.1	98.8	99.6	99.6	14.3	6.8
	35	85.0	91.4	97.5	99.4	99.4	14.4	6.4
	37	85.2	90.9	95.5	99.4	99.4	14.2	5.7
OH →	39	83.5	88.4	92.2	96.6	96.6	13.1	4.9
	41	81.2	86.5	89.5	94.6	94.6	13.4	5.3
	43	79.0	84.7	87.5	92.4	92.4	13.4	5.7
	45	78.1	83.4	85.1	91.8	93.4	13.7	5.3
	47	76.2	81.9	83.7	90.3	92.0	14.1	5.7
	49	73.7	79.1	82.9	87.9	89.9	14.2	5.4
	51	72.5	77.9	80.8	86.7	88.9	14.2	5.4
	53	69.7	75.6	78.2	84.4	86.6	14.7	5.9

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 43, 3 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.0	73.8	81.7	80.7	80.7	14.7	7.8
4	65.6	73.6	82.1	80.7	80.7	15.1	8.0
7	68.8	76.8	83.6	83.8	83.8	15.0	8.0
10	72.4	80.2	85.4	87.2	87.2	14.8	7.8
13	70.0	78.7	85.1	85.1	85.1	15.1	8.7
16	66.7	76.1	83.9	82.7	82.7	16.0	9.4
19	67.8	76.3	84.2	83.1	83.1	15.3	8.5
22	67.5	76.0	84.2	82.9	82.9	15.4	8.5
25	66.4	75.3	83.8	82.2	82.2	15.8	8.9
28	63.5	72.4	83.0	80.1	80.1	16.6	8.9
31	61.7	71.5	81.7	78.7	78.7	17.0	9.8
34	62.6	71.7	82.0	79.4	79.4	16.8	9.1
37	63.6	72.9	82.6	80.2	80.2	16.6	9.3
40	66.6	74.7	83.0	81.8	81.8	15.2	8.1
43	66.3	74.9	83.3	81.9	83.4	15.6	8.6
46	67.7	75.3	83.8	82.6	84.2	14.9	7.6
49	64.5	73.4	83.2	80.3	80.3	15.8	8.9
52	65.3	74.3	84.1	81.1	81.1	15.8	9.0
55	67.8	77.6	85.9	83.9	83.9	16.1	9.8
58	70.0	79.5	87.4	86.2	86.2	16.2	9.5
61	70.4	79.1	87.4	86.2	86.2	15.8	8.7
64	72.1	79.9	87.6	86.6	88.1	14.5	7.8
67	76.5	81.8	88.6	89.4	90.7	12.9	5.3
70	75.2	81.4	88.8	89.5	90.8	14.3	6.2
73	75.1	81.8	88.9	89.5	90.9	14.4	6.7
76	78.1	83.8	90.3	91.9	91.9	13.8	5.7
79	77.0	82.7	89.9	90.9	92.1	13.9	5.7
82	78.7	85.0	91.1	92.5	92.5	13.8	6.3
85	81.6	87.2	92.0	94.4	94.4	12.8	5.6
88	81.4	87.5	92.4	95.4	95.4	14.0	6.1
91	80.5	87.8	92.8	95.9	95.9	15.4	7.3
94	82.2	88.7	93.6	96.5	96.5	14.3	6.5
97	82.9	88.8	93.8	96.9	96.9	14.0	5.9
OH 100→102	80.5	86.4	92.8	93.9	93.9	13.4	5.9
103	79.7	85.9	93.4	93.7	93.7	14.0	6.2
106	78.5	85.1	92.8	93.3	93.3	14.8	6.6
109	76.9	83.7	91.2	91.7	91.7	14.8	6.8
112	78.1	84.6	90.7	92.9	92.9	14.8	6.5
115	76.3	83.0	88.9	90.6	91.7	14.3	6.7
118	75.2	82.0	87.6	89.3	89.3	14.1	6.8
121	74.0	80.4	85.6	87.5	89.2	13.5	6.4
124	69.7	77.0	83.9	84.3	85.4	14.6	7.3
127	69.3	75.8	81.9	83.2	84.6	13.9	6.5
130	64.7	72.0	80.2	79.1	80.9	14.4	7.3

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 44, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	67.1	74.7	80.9	81.8	81.8	14.7	7.6
3	67.4	74.9	81.6	82.2	82.2	14.8	7.5
5	68.0	76.0	83.3	82.8	82.8	14.8	8.0
7	75.3	83.2	88.8	89.6	89.6	14.3	7.9
9	80.4	88.2	93.4	94.0	94.0	13.6	7.8
11	80.8	88.6	94.2	94.8	94.8	14.0	7.8
13	80.6	89.0	94.3	94.9	94.9	14.3	8.4
15	80.1	88.9	94.5	94.2	94.2	14.1	8.8
17	80.4	89.3	95.2	94.7	94.7	14.3	8.9
19	79.3	88.6	95.1	94.5	94.5	15.2	9.3
21	79.0	87.9	94.2	93.8	93.8	14.8	8.9
23	78.1	87.3	93.8	92.9	92.9	14.8	9.2
25	76.9	86.6	93.7	92.5	92.5	15.6	9.7
27	77.6	87.0	94.7	93.1	95.1	15.5	9.4
29	78.3	87.4	95.3	94.0	94.0	15.7	9.1
31	78.5	87.8	95.9	94.1	94.1	15.6	9.3
33	79.5	87.8	95.8	94.6	94.6	15.1	8.3
35	82.8	89.6	96.4	97.0	98.2	14.2	6.8
37	85.5	91.5	96.3	99.5	99.5	14.0	6.0
39	84.9	90.6	94.5	98.9	98.9	14.0	5.7
41	83.0	88.2	91.2	96.4	96.4	13.4	5.2
OH → 42 43	81.1	86.7	89.3	94.5	94.5	13.4	5.6
45	79.1	84.5	88.4	92.2	92.2	13.1	5.4
47	77.8	82.9	87.3	90.7	90.7	12.9	5.1
49	75.9	81.3	86.3	89.5	91.1	13.6	5.4
51	73.8	79.7	84.9	88.2	90.3	14.4	5.9
53	73.7	79.5	83.4	87.7	90.6	14.0	5.8
55	73.0	78.7	82.1	87.0	90.3	14.0	5.7
57	70.3	75.9	80.4	84.4	87.5	14.1	5.6
59	66.1	72.0	78.8	80.0	81.8	13.9	5.9
61	67.9	73.4	78.3	81.9	85.3	14.0	5.5

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 45, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	63.4	73.1	80.8	81.5	81.5	18.1	9.7
5	66.1	76.1	83.4	83.6	83.6	17.5	10.0
7	67.5	77.9	85.1	85.4	85.4	17.9	10.4
9	68.7	78.9	86.0	86.3	86.3	17.6	10.2
11	70.2	80.3	87.3	87.4	87.4	17.2	10.1
13	72.1	81.7	88.2	88.7	88.7	16.6	9.6
15	75.3	83.9	89.5	90.5	90.5	15.2	8.6
17	76.5	84.7	89.8	91.5	91.5	15.0	8.2
19	77.2	85.3	90.3	91.9	91.9	14.7	8.1
21	77.2	85.5	90.8	92.4	92.4	15.2	8.3
23	76.9	85.4	91.1	92.1	92.1	15.2	8.5
25	74.8	83.6	90.1	90.8	90.8	16.0	8.8
27	73.9	83.4	90.7	89.8	89.8	15.9	9.5
29	75.3	84.8	92.0	91.0	91.0	15.7	9.5
31	77.7	87.1	93.5	93.3	93.3	15.6	9.4
33	79.5	88.5	94.9	94.6	94.6	15.1	9.0
35	76.6	86.5	94.0	93.0	93.0	16.4	9.9
37	72.9	84.0	93.3	91.1	91.1	18.2	11.1
39	72.7	83.8	93.2	90.9	90.9	18.2	11.1
41	72.6	82.9	92.5	90.2	90.2	17.6	10.3
43	73.8	83.0	93.0	90.6	90.6	16.8	9.2
45	77.4	84.3	92.7	92.5	92.5	15.1	6.9
47	79.3	86.0	91.8	94.2	94.2	14.9	6.7
OH → 49	81.1	87.2	91.2	95.7	95.7	14.6	6.1
51 → 50	79.7	85.7	89.0	93.4	93.4	13.7	6.0
53	78.4	84.3	87.6	92.5	92.5	14.1	5.9.
55	76.6	82.6	85.5	90.3	90.3	13.7	6.0
57	75.3	80.4	84.1	87.6	87.6	12.3	5.1
59	75.4	80.5	84.5	88.5	90.2	13.1	5.1
61	75.1	80.1	83.8	88.6	90.8	13.5	5.0
63	70.8	76.1	81.5	85.0	87.2	14.2	5.3
65	68.3	74.3	81.2	82.5	84.0	14.2	6.0
67	69.2	75.0	79.9	83.6	85.9	14.4	5.8
69	68.3	73.8	79.0	82.9	85.4	14.6	5.5
71	66.7	72.0	77.7	81.0	83.5	14.3	5.3
73	67.5	72.6	77.7	81.6	83.3	14.1	5.1
75	65.9	71.4	77.3	80.5	81.9	14.6	5.5

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 46, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	67.7	77.5	85.6	88.3	88.3	20.6	9.8
	2	67.9	78.2	86.6	88.6	88.6	20.7	10.3
	3	69.5	79.7	88.1	89.6	89.6	20.1	10.2
	4	72.1	81.6	89.9	91.4	91.4	19.3	9.5
	5	76.5	84.6	92.2	94.0	94.0	17.5	8.1
	6	82.7	90.7	95.9	98.3	98.3	15.6	8.0
	7	86.4	93.5	97.9	100.7	100.7	14.3	7.1
	8	87.2	94.3	98.8	101.4	101.4	14.2	7.1
	9	86.8	94.0	98.7	101.2	101.2	14.4	7.2
	10	85.1	93.2	98.4	100.3	100.3	15.2	8.1
	11	83.8	92.7	98.2	99.6	99.6	15.8	8.9
	12	82.7	91.6	97.5	98.7	98.7	16.0	8.9
	13	81.9	90.5	96.9	98.1	98.1	16.2	8.6
	14	81.7	89.8	96.5	97.6	97.6	15.9	8.1
	15	81.0	89.4	96.4	97.5	97.5	16.5	8.4
	16	81.1	89.8	96.7	97.7	98.7	16.6	8.7
	17	81.8	90.6	97.4	98.3	99.5	16.5	8.8
	18	81.9	90.8	97.7	98.6	98.6	16.7	8.9
	19	81.6	90.5	97.9	98.5	98.5	16.9	8.9
	20	81.1	90.2	97.9	98.3	98.3	17.2	9.1
	21	81.3	90.2	98.2	98.4	98.4	17.1	8.9
	22	81.1	90.0	98.2	98.3	98.3	17.2	8.9
	23	80.4	89.3	97.8	97.9	97.9	17.5	8.9
	24	80.2	89.0	97.6	97.3	98.4	17.1	8.8
	25	80.7	89.0	97.3	97.2	97.2	16.5	8.3
	26	81.9	89.2	97.0	97.2	97.2	15.3	7.3
	27	82.2	88.8	96.5	97.3	97.3	15.1	6.6
	28	82.9	88.9	96.2	97.8	97.8	14.9	6.0
	29	83.2	88.9	95.5	97.7	97.7	14.5	5.7
	30	83.8	89.4	94.8	98.1	98.1	14.3	5.6
	31	83.3	89.0	93.8	97.8	97.8	14.5	5.7
	32	82.6	88.5	92.7	97.0	97.0	14.4	5.9
OH →	33	81.7	87.5	91.3	95.7	95.7	14.0	5.8
	34	81.1	86.7	89.9	94.9	94.9	13.8	5.6
	35	80.1	85.6	88.6	94.2	94.2	14.1	5.5
	36	78.7	84.4	87.2	92.8	92.8	14.1	5.7
	37	77.8	83.4	85.5	91.4	91.4	13.6	5.6
	38	77.8	83.0	84.2	91.0	91.0	13.2	5.2
	39	77.8	82.6	83.5	91.1	92.3	13.3	4.8
	40	77.7	82.6	82.9	91.1	92.6	13.4	4.9
	41	77.6	82.4	82.4	91.2	92.9	13.6	4.8
	42	76.6	81.6	81.7	90.4	92.1	13.8	5.0
	43	75.3	80.2	80.9	89.5	91.3	14.2	4.9
	44	74.0	79.2	80.2	88.2	89.4	14.2	5.2

TABLE E-V

NOISE LEVEL TIME HISTORY DATA

BELL 212

OCTOBER 6, 1976

EVENT 47, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.3	80.0	87.8	86.5	86.5	16.2	9.7
3	70.6	81.3	89.4	87.2	87.2	16.6	10.7
5	71.4	82.0	89.6	88.0	88.0	16.6	10.6
7	72.2	82.6	89.9	88.3	88.3	16.1	10.4
9	74.6	84.4	91.0	89.8	89.8	15.2	9.8
11	78.0	86.9	92.6	92.6	92.6	14.6	8.9
13	81.1	89.1	94.3	95.0	95.0	13.9	8.0
15	81.5	89.6	94.7	95.4	95.4	13.9	8.1
17	80.6	89.2	94.9	94.8	94.8	14.2	8.6
19	79.1	88.4	94.7	93.8	93.8	14.7	9.3
21	78.2	87.6	94.4	93.3	93.3	15.1	9.4
23	77.6	86.9	93.8	92.8	92.8	15.2	9.3
25	76.8	86.5	93.7	92.0	92.0	15.2	9.7
27	78.9	88.1	94.8	94.0	94.0	15.1	9.2
29	80.6	89.4	96.6	95.6	95.6	15.0	8.8
31	80.2	89.2	96.7	95.5	95.5	15.3	9.0
33	81.0	89.3	97.0	95.8	95.8	14.8	8.3
35	82.2	89.5	97.1	96.7	96.7	14.5	7.3
37	83.3	89.9	96.8	98.0	98.0	14.7	6.6
38	83.6	90.0	96.3	98.3	98.3	14.7	6.4
40	83.0	89.0	93.8	97.4	97.4	14.4	6.0
OH → 42	80.9	86.9	90.6	94.4	94.4	13.5	6.0
44	78.4	84.5	88.3	92.3	92.3	13.9	6.1
46	76.9	82.6	85.7	89.9	89.9	13.0	5.7
48	76.7	81.8	84.6	90.2	92.3	13.5	5.1
50	74.8	80.3	83.3	88.6	91.0	13.8	5.5
52	72.0	77.6	81.6	86.1	88.4	14.1	5.6
54	71.1	77.0	81.0	85.3	87.4	14.2	5.9
56	70.7	76.7	80.5	85.0	87.2	14.3	6.0
58	67.4	74.0	80.3	81.9	83.7	14.5	6.6

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 24, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-27.5	-22.0	-16.5	-11.0	-5.5	0	3.0	5.5	11.0	13.0
17	77.2	80.2	79.3	76.6	70.9	78.9	84.1	80.8	75.9	75.2
18	77.3	80.7	80.3	77.9	78.3	75.3	82.3	78.3	76.9	74.5
19	73.9	79.1	78.2	74.9	77.9	76.4	71.8	77.2	72.5	70.3
20	72.7	78.3	78.2	69.8	74.3	72.0	73.3	77.6	73.4	72.2
21	71.5	77.0	76.1	70.6	69.0	65.6	69.7	70.0	70.5	69.7
22	67.4	71.1	67.6	62.0	59.1	74.7	75.4	69.7	71.6	70.6
23	67.2	70.9	65.4	57.6	66.7	76.0	79.7	78.1	68.1	69.4
24	67.3	68.9	60.0	61.4	72.6	78.0	80.3	81.9	62.1	65.0
25	64.6	64.8	68.5	65.4	73.0	74.9	79.1	77.7	64.6	62.1
26	63.2	65.5	75.2	69.9	71.3	67.6	71.0	72.6	67.4	65.0
27	63.6	68.0	74.8	69.1	67.1	72.8	74.3	71.0	67.2	66.9
28	64.2	68.5	69.5	62.1	70.4	66.8	69.6	72.1	58.0	62.1
29	60.8	65.1	62.0	64.4	65.6	68.9	71.2	69.0	60.3	54.7
30	55.7	59.5	66.9	60.1	67.2	67.3	66.6	66.2	57.8	58.1
31	57.6	62.8	62.7	63.6	67.1	65.8	65.0	65.7	54.8	55.5
32	55.5	60.6	61.7	62.0	66.2	65.4	64.3	65.2	56.0	57.5
33	49.5	55.2	58.5	60.8	65.0	62.8	63.2	65.2	55.8	55.6
34	47.0	53.0	54.5	56.5	61.3	61.1	60.4	58.8	50.2	50.6
35	45.0	48.9	51.7	52.3	60.0	57.2	57.8	56.6	48.6	48.9
36	45.0	45.4	47.2	48.5	56.3	55.1	57.1	56.6	48.5	47.4
37	45.0	45.0	45.0	45.0	50.8	50.0	50.9	49.7	45.0	45.0
38	45.0	45.0	45.0	45.0	46.7	47.3	49.2	46.5	45.0	45.0
39	45.0	45.0	45.0	45.0	45.3	48.4	50.9	48.9	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.7	45.0	45.0	45.0
A	69.4	73.9	76.9	72.8	77.1	77.8	80.2	79.4	70.3	70.1
D	76.1	80.3	81.8	78.1	81.7	83.7	86.0	85.1	76.7	76.4
OASPL	83.5	87.0	87.2	85.0	85.4	90.8	91.1	89.0	82.6	81.5
PNL	82.7	87.3	89.2	85.6	89.3	90.9	93.0	93.1	83.9	83.4
PNLT	82.7	87.3	90.7	86.7	90.6	90.9	94.0	93.6	83.9	83.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 27, 9 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-30.5	-24.5	-18.5	-12.5	-6.5	-.5	0	3.5	5.5	11.5	12.0
17	76.2	77.5	79.1	78.4	75.5	79.1	78.9	82.5	80.5	76.1	76.0
18	76.4	78.1	79.6	79.1	76.7	73.7	74.3	77.5	77.9	75.5	74.7
19	73.8	76.4	77.3	77.3	76.9	75.5	74.9	76.6	73.4	71.0	70.9
20	71.8	73.0	75.4	76.0	71.2	72.4	73.5	78.0	75.4	72.9	72.2
21	71.9	71.2	75.0	74.4	67.6	66.6	67.4	70.0	69.3	72.3	71.6
22	64.9	63.4	67.5	69.4	62.1	73.6	73.6	75.5	64.9	71.3	71.1
23	64.4	60.9	64.8	60.5	72.5	78.3	77.2	81.8	73.9	68.4	67.7
24	61.3	56.8	65.8	70.2	75.0	77.3	76.8	83.5	75.2	62.2	62.5
25	58.3	62.8	73.0	74.4	72.4	76.6	75.3	78.0	75.6	64.2	62.6
26	68.1	70.1	78.1	76.1	69.3	67.2	67.7	70.1	71.6	68.4	66.5
27	69.7	68.4	74.6	72.0	67.1	71.1	71.8	73.9	68.5	69.5	66.8
28	64.7	59.7	67.3	66.8	70.5	66.6	66.6	70.2	70.8	61.4	61.0
29	56.4	51.2	66.6	69.8	65.0	69.2	69.4	71.5	66.0	57.9	54.4
30	50.5	54.3	61.9	63.2	65.3	66.3	66.8	67.5	64.7	60.7	59.1
31	52.9	51.1	61.9	65.2	64.9	64.9	65.2	66.2	63.7	55.8	54.9
32	48.0	52.0	59.1	64.1	63.5	64.5	63.5	63.9	63.5	60.0	60.2
33	46.1	48.2	57.6	62.0	62.3	63.3	62.8	63.7	63.4	57.7	57.7
34	45.0	45.2	55.4	58.0	60.1	61.3	60.9	61.7	58.1	53.6	52.4
35	45.0	45.0	51.6	54.9	58.2	58.8	58.1	59.2	56.6	52.5	51.1
36	45.0	45.0	47.5	50.2	54.9	56.5	55.6	59.1	58.6	51.0	49.7
37	45.0	45.0	45.0	45.8	49.1	50.9	50.7	51.6	50.5	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	47.4	47.7	49.0	47.6	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	48.2	48.6	51.8	50.2	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.2	46.0	45.3	45.0	45.0
A	70.1	69.1	78.0	77.6	75.9	77.9	77.8	80.7	77.0	71.4	70.3
D	75.7	76.1	82.7	82.3	81.3	84.0	83.6	86.8	82.9	77.7	76.7
OASPL	82.4	84.0	86.7	86.7	84.7	90.5	90.9	92.4	87.6	82.6	81.7
PNL	83.3	83.6	90.2	90.1	88.8	90.7	90.4	94.5	90.0	85.2	83.8
PNLT	84.6	84.6	90.2	91.7	90.3	90.7	90.4	95.2	91.6	86.5	85.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 36, 110 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-19.5	-16.0	-12.5	-9.0	-5.5	-2.0	0	1.5	5.0	7.5
17	81.2	82.4	85.5	85.9	88.4	86.7	78.3	83.1	81.3	75.2
18	82.3	83.5	86.1	85.8	88.1	85.2	80.6	81.2	74.2	68.2
19	83.0	85.2	86.6	86.4	88.4	81.2	75.0	75.1	73.8	69.5
20	80.8	83.4	84.6	83.9	84.3	74.3	72.0	68.6	72.8	67.6
21	79.2	83.9	84.1	83.6	83.5	73.2	68.0	65.4	64.8	62.8
22	73.0	82.5	80.6	82.2	78.2	61.6	73.0	75.6	63.5	64.7
23	67.9	81.2	80.4	81.5	78.1	64.6	72.4	76.4	65.2	55.6
24	64.9	77.6	78.5	77.2	68.9	74.4	76.7	78.2	68.6	60.3
25	61.6	70.5	74.8	72.0	62.7	76.8	77.4	75.2	71.1	63.1
26	55.6	63.3	71.7	69.2	67.4	78.2	72.6	73.1	71.1	66.3
27	51.5	56.3	68.6	62.5	73.5	71.6	76.3	79.1	68.0	64.5
28	46.4	56.0	65.6	64.6	72.9	74.2	75.0	72.2	70.4	56.6
29	45.1	54.6	65.8	67.1	69.1	73.2	73.4	73.7	65.7	62.9
30	45.2	51.5	62.5	66.6	63.3	71.7	70.0	70.6	67.8	58.7
31	45.0	48.7	58.7	65.1	67.8	70.6	70.3	67.8	65.5	60.4
32	45.0	47.0	56.0	63.3	64.1	70.4	69.6	67.2	66.7	62.2
33	45.0	45.1	54.2	59.6	61.8	68.7	67.6	65.2	62.2	56.7
34	45.0	45.0	48.0	55.0	57.5	66.4	65.6	63.5	60.0	55.4
35	45.0	45.0	45.2	51.2	52.5	62.5	62.1	60.7	57.3	52.5
36	45.0	45.0	45.0	46.2	48.4	60.2	59.3	57.8	53.5	48.4
37	45.0	45.0	45.0	45.0	45.0	55.1	55.2	52.6	48.7	45.0
38	45.0	45.0	45.0	45.0	45.0	48.5	50.6	49.0	45.3	45.0
39	45.0	45.0	45.0	45.0	45.0	45.4	48.2	49.2	45.6	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	46.3	46.1	45.0	45.0
A	69.3	76.8	78.5	78.5	78.8	81.5	81.0	81.1	76.3	71.3
D	80.7	86.0	86.7	86.8	86.6	86.5	85.8	85.4	80.7	76.1
OASPL	88.8	92.2	93.5	93.4	94.7	93.1	90.5	89.8	84.9	79.9
PNL	85.7	90.7	92.6	93.1	93.7	94.0	93.0	93.6	88.4	83.2
PNLT	85.7	90.7	92.6	93.1	95.1	94.0	93.0	93.6	89.6	84.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 43, 3 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-42.0	-34.0	-26.0	-18.0	-10.0	-2.0	0	6.0	14.0	14.5
17	74.2	76.1	76.6	80.0	77.4	78.2	77.2	80.2	73.0	73.0
18	75.7	76.6	78.1	79.9	77.2	76.2	72.5	77.6	71.5	71.1
19	73.5	73.4	74.5	76.5	74.9	70.8	68.3	74.6	71.0	70.0
20	72.8	73.5	73.3	76.1	74.8	66.6	64.3	72.0	70.3	69.2
21	70.9	72.3	74.3	75.1	75.8	65.1	63.1	68.0	64.2	63.8
22	67.8	66.0	69.0	68.3	66.4	63.2	69.6	60.9	61.5	61.1
23	65.5	64.9	68.7	67.7	62.9	69.7	70.7	68.6	59.3	59.1
24	67.7	65.1	70.6	64.3	60.2	73.1	73.7	71.9	53.5	54.2
25	63.7	61.4	65.9	57.6	66.8	73.1	71.0	72.9	56.4	53.2
26	58.6	58.3	60.9	61.5	73.5	67.9	64.1	69.7	60.2	58.1
27	54.2	54.2	52.3	65.9	73.1	68.6	70.0	64.8	63.1	60.3
28	51.7	52.3	55.3	65.9	65.6	70.1	67.7	69.5	59.2	58.2
29	46.8	48.4	56.8	60.9	64.5	68.0	68.7	63.6	50.5	49.6
30	45.0	45.9	53.5	54.0	63.2	66.1	65.6	64.5	55.8	54.1
31	45.2	45.2	50.1	59.4	64.8	66.5	64.5	62.8	52.1	51.6
32	45.0	45.0	49.8	52.7	62.3	65.4	62.9	61.9	58.6	58.0
33	45.0	45.0	48.4	51.4	60.4	63.6	62.0	60.2	53.4	52.8
34	45.0	45.0	46.0	48.2	57.3	60.9	60.3	56.7	48.0	46.6
35	45.0	45.0	45.1	45.6	53.1	58.4	57.6	54.2	48.2	47.0
36	45.0	45.0	45.0	45.1	50.5	55.6	54.8	53.7	46.2	45.7
37	45.0	45.0	45.0	45.0	46.8	50.4	49.7	47.5	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	47.2	46.4	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	47.8	48.5	46.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.2	45.2	45.0	45.0	45.0
A	65.6	65.3	68.6	70.7	75.0	76.5	75.7	75.0	66.6	65.6
D	73.9	74.0	76.1	77.4	80.2	81.8	81.4	80.4	72.9	71.8
OASPL	82.0	83.3	84.3	86.2	85.8	88.1	90.1	87.1	78.7	78.2
PNL	80.5	80.4	83.1	84.3	88.1	88.5	87.8	87.5	80.2	79.4
PNLT	80.5	80.4	83.1	86.3	88.1	88.5	87.8	89.2	82.2	81.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 44, 110 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.5	-13.5	-10.5	-7.5	-4.5	-3.0	-1.5	0	1.5	4.5	6.5
17	82.7	85.5	86.0	88.3	89.1	87.2	78.3	79.4	83.0	80.6	77.7
18	82.7	86.4	85.8	88.8	88.9	85.9	75.9	79.0	79.8	74.4	70.5
19	82.8	87.8	86.7	88.3	88.4	83.5	76.5	74.6	75.9	72.2	71.2
20	79.7	85.6	84.8	85.5	83.3	77.6	75.3	70.4	71.6	72.4	71.4
21	78.7	86.0	85.3	84.9	81.1	77.1	72.1	67.8	65.1	64.4	64.5
22	77.3	83.4	83.0	81.0	74.0	67.5	60.1	69.2	68.4	60.1	62.7
23	75.1	82.0	81.1	79.8	74.8	62.8	65.3	70.4	73.3	62.4	59.4
24	72.1	78.2	76.0	75.4	63.9	69.4	75.1	74.9	75.5	66.8	59.0
25	66.2	73.4	73.2	72.1	66.4	74.3	76.8	76.4	74.5	69.9	64.3
26	58.7	70.3	72.1	67.5	73.6	79.0	77.3	71.6	69.2	71.3	68.3
27	55.0	65.4	68.4	65.5	76.5	75.2	69.9	71.7	72.7	65.4	67.4
28	52.3	58.2	65.4	72.8	74.5	68.7	73.8	73.6	71.8	66.9	58.1
29	50.1	54.5	62.2	73.3	67.5	74.8	72.1	71.1	70.5	66.4	63.0
30	47.7	52.5	59.5	67.8	68.4	69.6	70.4	69.2	66.8	64.9	59.5
31	47.0	52.7	59.6	61.6	67.3	70.8	69.8	69.1	66.5	62.1	60.5
32	46.4	50.5	57.4	64.1	67.6	68.6	69.7	68.1	65.6	63.7	63.2
33	45.4	46.4	52.6	57.8	64.7	66.9	67.7	65.9	63.7	59.1	56.6
34	45.0	45.3	50.0	53.8	61.5	64.5	65.3	63.8	60.9	55.9	53.5
35	45.0	45.0	47.2	49.8	56.8	60.9	62.0	60.2	57.8	55.2	54.3
36	45.0	45.0	45.1	46.9	53.6	56.6	59.8	57.9	55.3	49.7	48.8
37	45.0	45.0	45.0	45.0	48.2	51.6	54.4	53.1	50.5	46.1	45.0
38	45.0	45.0	45.0	45.0	45.0	46.0	49.0	49.1	46.7	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	46.1	47.5	47.6	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.2	45.8	45.0	45.0
A	71.6	78.7	78.4	79.5	79.9	81.2	80.3	79.4	78.0	74.1	71.5
D	81.7	87.9	87.1	87.2	86.3	86.2	85.2	84.2	82.8	79.1	76.6
OASPL	89.7	94.5	93.9	94.7	94.8	93.1	90.5	89.4	88.8	84.0	81.4
PNL	86.7	92.8	93.0	94.0	94.3	94.0	92.7	91.4	90.3	86.6	84.2
PNLT	86.7	92.8	93.0	95.5	94.3	95.9	92.7	91.4	90.3	87.6	85.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 45, 110 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-19.0	-15.0	-11.0	-7.0	-4.0	-3.0	0	1.0	5.0	9.0	10.5
17	79.0	83.6	84.9	88.3	88.8	88.2	77.6	79.1	80.6	74.3	71.9
18	79.2	83.7	85.9	88.1	88.1	87.5	77.6	78.3	74.3	70.4	69.0
19	78.8	84.0	85.6	88.1	87.1	83.8	72.9	72.5	72.1	68.7	68.2
20	74.1	81.9	82.3	85.4	82.5	77.4	63.3	61.7	67.8	68.8	69.0
21	74.0	82.7	80.5	83.6	79.1	73.5	65.8	66.1	65.0	64.8	66.8
22	70.8	80.7	79.5	80.6	71.2	63.6	70.4	75.6	63.1	60.1	63.8
23	62.7	77.3	78.1	78.1	70.6	68.3	73.6	74.2	68.4	58.0	58.2
24	61.6	71.4	74.5	71.4	67.7	72.5	79.7	75.5	70.4	61.4	58.8
25	60.4	66.4	70.9	63.6	70.4	72.0	69.9	69.7	67.1	61.2	57.5
26	55.0	60.1	70.8	64.6	74.4	73.1	74.8	74.9	64.5	63.1	63.0
27	55.0	57.3	65.4	65.4	72.8	68.9	77.2	75.2	70.8	60.1	60.1
28	55.0	55.2	60.1	62.8	68.4	72.7	72.0	72.9	64.7	57.4	55.9
29	55.0	55.0	57.9	64.2	72.2	70.4	70.4	70.9	65.0	58.4	57.8
30	55.0	55.0	55.5	59.7	68.0	69.5	68.9	69.8	64.0	56.1	55.7
31	55.0	55.0	56.6	57.5	69.3	67.7	68.1	68.9	63.2	55.5	56.5
32	55.0	55.0	57.2	60.7	67.2	65.9	67.1	68.2	64.3	60.1	61.5
33	55.0	55.0	55.4	55.5	64.8	62.7	65.0	65.3	60.3	55.0	55.4
34	55.0	55.0	55.0	55.2	61.1	60.2	62.9	63.0	57.6	55.0	55.0
35	55.0	55.0	55.0	55.0	56.7	57.3	58.3	59.0	55.8	55.0	55.0
36	55.0	55.0	55.0	55.0	55.0	55.5	56.2	55.8	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	65.7	74.2	75.6	76.1	79.0	78.6	80.0	80.0	74.5	67.7	67.8
D	76.5	83.4	84.0	85.8	85.5	84.2	84.4	84.7	79.6	74.2	74.5
OASPL	84.9	90.8	91.6	94.4	94.1	93.2	87.8	87.9	85.1	80.7	79.5
PNL	84.9	90.8	91.7	93.3	93.9	92.6	92.4	91.8	87.5	83.1	83.4
PNLT	84.9	90.8	91.7	94.7	95.3	93.6	92.4	91.8	87.5	84.7	85.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 24, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-56.5	-46.5	-36.5	-26.5	-16.5	-6.5	0	3.5	13.5
17	78.7	73.8	79.0	77.8	84.5	81.3	80.4	77.2	70.3
18	79.2	75.9	78.4	78.5	82.4	81.1	81.6	73.1	66.6
19	78.3	71.5	74.1	72.9	76.9	71.3	72.6	78.1	66.6
20	77.5	72.9	74.3	71.8	74.8	73.6	71.1	74.8	70.1
21	75.5	70.5	71.8	70.6	73.6	74.7	68.6	64.4	70.3
22	70.0	65.7	68.3	62.3	73.0	63.3	74.1	71.0	68.7
23	64.7	62.9	65.4	59.2	70.5	68.8	76.9	73.6	63.2
24	60.4	64.4	62.4	59.9	64.7	77.1	76.4	74.1	56.7
25	65.2	63.8	57.6	60.7	65.6	76.0	70.3	72.3	54.4
26	64.1	58.0	59.1	55.9	70.2	73.3	65.0	65.5	61.0
27	59.1	56.7	52.4	59.5	70.2	67.1	70.6	70.3	64.0
28	54.3	48.4	48.4	58.6	66.2	72.9	65.5	65.4	59.4
29	49.1	48.7	47.8	53.5	59.9	69.4	67.5	67.2	51.2
30	46.0	47.2	46.1	46.8	57.2	67.2	65.3	63.7	54.6
31	45.0	45.0	45.1	45.1	58.3	64.8	62.8	61.5	54.3
32	45.0	45.0	45.0	45.5	54.6	64.1	63.3	62.0	60.1
33	45.0	45.0	45.0	45.0	53.2	61.8	62.4	66.0	58.4
34	45.0	45.0	45.0	45.0	49.6	60.6	59.8	57.1	50.1
35	45.0	45.0	45.0	45.0	46.4	56.3	57.3	54.5	51.7
36	45.0	45.0	45.0	45.0	45.0	54.0	55.9	55.2	50.9
37	45.0	45.0	45.0	45.0	45.0	48.8	51.6	49.6	45.0
38	45.0	45.0	45.0	45.0	45.0	45.8	48.7	46.9	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	49.3	48.9	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	46.8	45.6	45.0
A	67.2	64.3	64.1	63.9	72.0	78.1	75.9	75.4	67.9
D	76.4	72.0	74.1	71.9	79.1	82.8	81.8	80.9	74.3
OASPL	84.9	80.9	83.8	82.5	88.1	88.2	86.7	84.8	79.8
PNL	83.5	79.8	80.8	80.2	86.4	90.4	89.9	89.0	81.8
PNLT	83.5	79.8	80.8	80.2	86.4	92.0	89.9	91.2	83.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 35, 110 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.0	-12.0	-9.0	-6.0	-3.0	0	3.0	6.0	8.5
17	79.5	83.1	87.9	89.1	88.4	81.7	84.3	81.6	81.0
18	80.0	82.4	86.3	86.5	86.7	84.3	83.5	77.6	77.7
19	81.2	82.8	87.7	86.9	83.9	75.8	72.1	72.1	69.9
20	79.4	82.2	86.7	84.3	78.4	75.2	72.0	70.3	65.6
21	78.8	83.2	86.7	83.1	80.5	78.7	74.0	66.2	68.8
22	75.2	83.2	84.1	79.5	76.2	76.1	73.5	65.1	67.1
23	75.4	81.3	82.3	79.7	79.6	79.0	77.9	69.3	66.3
24	72.9	77.4	76.4	74.7	79.0	79.5	76.9	69.1	64.1
25	66.9	77.1	73.2	70.5	78.4	74.9	72.4	69.8	64.3
26	60.6	75.4	70.6	70.4	80.3	70.9	70.0	70.5	66.3
27	58.0	75.8	66.2	72.0	76.7	75.0	75.9	64.6	66.3
28	52.9	73.2	66.9	69.9	72.1	75.1	70.0	67.2	59.8
29	51.7	69.7	69.2	63.9	72.2	74.1	71.4	65.3	60.9
30	49.3	64.5	64.4	64.1	68.8	70.3	67.7	63.5	61.2
31	47.5	59.8	60.7	62.9	67.2	68.7	64.5	62.1	59.2
32	45.0	56.8	58.0	57.7	66.4	66.9	65.0	64.6	61.9
33	45.0	52.1	54.1	54.2	63.6	66.1	64.1	59.1	56.0
34	45.0	49.2	50.9	52.5	61.3	62.8	58.3	55.5	52.8
35	45.0	45.9	47.8	48.8	57.6	61.1	56.2	56.8	54.0
36	45.0	45.2	46.1	46.5	54.9	58.8	54.9	52.1	48.4
37	45.0	45.0	45.0	45.0	49.8	54.8	49.7	49.3	45.1
38	45.0	45.0	45.0	45.0	45.7	51.1	47.4	45.7	45.0
39	45.0	45.0	45.0	45.0	45.0	47.5	47.4	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	46.8	45.5	45.0	45.0
A	70.8	80.2	78.8	77.7	81.4	80.8	78.6	74.3	70.7
D	80.1	86.4	87.4	85.6	86.8	85.8	83.5	79.1	76.0
OASPL	87.7	91.8	94.4	94.0	93.8	90.0	88.5	85.0	84.1
PNL	86.2	93.0	94.2	92.7	95.4	93.9	91.6	87.0	84.3
PNLT	86.2	93.0	95.3	92.7	95.4	93.9	91.6	88.3	85.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 36, 110 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.5	-12.5	-9.5	-6.5	-3.5	-.5	0	2.5	5.5	6.0
17	82.1	85.3	86.7	87.8	86.4	77.6	79.5	83.2	75.5	73.6
18	80.3	86.2	87.4	87.4	85.8	83.8	83.7	73.1	71.2	70.6
19	78.9	87.1	87.7	87.4	82.9	71.1	68.6	64.4	66.3	66.2
20	76.6	86.6	87.0	85.6	77.6	69.5	68.4	64.2	64.3	63.2
21	77.3	87.4	87.0	84.2	79.3	74.1	72.2	62.2	61.5	61.8
22	75.2	86.1	83.6	78.0	72.2	67.7	69.7	70.3	61.3	60.7
23	70.0	84.6	80.5	75.5	69.9	72.1	73.4	75.3	62.1	60.0
24	66.4	80.5	75.3	72.3	66.5	77.6	78.3	76.0	65.0	62.2
25	59.9	77.4	71.3	63.5	73.6	71.5	72.0	71.4	68.2	66.6
26	57.6	75.9	69.6	66.6	77.9	68.5	67.6	67.5	69.9	69.3
27	56.4	74.9	65.7	72.4	76.3	72.4	73.9	76.0	64.6	64.5
28	53.5	69.5	66.2	73.2	69.7	73.5	72.5	71.2	67.5	64.3
29	49.2	64.6	66.0	73.3	70.1	72.0	73.0	72.6	65.9	65.0
30	46.4	57.5	62.3	65.3	67.5	69.5	69.7	67.7	64.4	62.1
31	45.0	53.2	58.4	66.8	64.3	68.4	68.0	65.3	61.9	60.7
32	45.0	51.6	54.3	61.2	63.6	67.9	67.8	65.0	63.1	62.4
33	45.0	48.3	49.4	57.8	60.5	65.9	66.2	62.4	58.0	57.0
34	45.0	46.2	47.9	54.8	57.7	62.9	63.4	59.1	54.5	53.6
35	45.0	45.0	45.0	49.7	55.3	60.4	60.9	57.1	54.1	53.7
36	45.0	45.0	45.0	46.7	51.4	58.3	58.8	55.2	50.4	49.1
37	45.0	45.0	45.0	45.0	47.5	55.1	55.4	50.2	47.8	46.4
38	45.0	45.0	45.0	45.0	45.0	51.1	51.2	48.1	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	47.8	48.2	47.4	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	48.1	47.9	45.5	45.0	45.0
A	67.9	81.1	78.1	78.9	78.9	78.8	79.2	78.3	73.3	71.9
D	78.4	88.6	87.2	85.6	84.1	83.2	83.5	82.8	77.4	76.3
OASPL	87.2	94.7	94.5	93.8	91.4	86.7	87.5	85.2	81.4	80.2
PNL	84.4	94.9	93.7	93.2	92.5	91.7	92.1	90.5	85.1	84.1
PNLT	84.4	94.9	93.7	94.5	92.5	91.7	92.1	91.5	86.2	85.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 44, 110 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.5	-13.5	-12.0	-10.5	-7.5	-4.5	-1.5	0	1.5	4.5	6.5
17	82.1	85.4	87.0	86.2	87.0	87.1	80.1	78.6	83.0	77.0	69.1
18	80.1	85.3	87.1	85.7	86.2	86.3	83.3	83.2	78.2	71.6	71.8
19	78.7	86.8	87.2	88.0	87.2	86.7	74.5	70.6	68.2	66.3	67.0
20	77.9	86.1	87.0	87.3	86.3	83.7	74.2	68.2	63.5	67.6	62.9
21	78.2	86.6	88.2	87.3	85.8	82.2	74.0	69.4	59.9	61.1	62.1
22	73.7	84.6	87.3	84.9	81.6	73.2	63.9	70.6	74.7	56.0	60.9
23	67.5	82.8	85.5	82.5	76.8	72.6	70.2	74.0	75.4	66.2	56.8
24	65.8	79.1	79.1	77.5	69.5	64.3	75.6	77.3	75.7	68.8	59.9
25	63.4	73.1	73.4	71.9	62.8	71.7	75.4	70.2	69.6	69.7	63.3
26	63.4	69.3	71.1	70.0	59.7	76.9	72.8	66.6	69.6	67.9	67.9
27	62.7	67.5	71.6	67.5	64.4	74.8	69.3	73.5	75.1	65.6	66.1
28	53.7	62.4	65.5	60.0	67.8	70.2	74.3	71.4	68.6	67.9	58.8
29	51.8	56.1	59.7	61.2	65.9	66.5	71.2	73.3	70.1	65.0	64.0
30	52.3	47.9	52.5	59.5	56.1	66.2	70.4	69.2	68.8	65.4	59.3
31	48.2	47.4	49.4	55.1	54.5	61.0	68.4	67.6	66.1	63.2	60.5
32	45.2	46.7	47.5	50.0	53.3	61.3	68.6	67.4	65.6	68.3	63.6
33	45.0	45.0	45.5	48.9	47.7	57.9	65.5	66.0	63.6	62.4	57.2
34	45.0	45.0	45.0	45.7	46.1	54.9	64.1	63.7	61.3	57.5	55.2
35	45.0	45.0	45.0	45.0	45.0	52.1	61.3	61.1	58.9	57.0	54.6
36	45.0	45.0	45.0	45.0	45.0	48.9	59.2	60.1	57.3	53.7	50.0
37	45.0	45.0	45.0	45.0	45.0	45.2	54.7	54.8	53.3	51.6	47.0
38	45.0	45.0	45.0	45.0	45.0	45.0	51.7	52.2	50.8	48.1	45.4
39	45.0	45.0	45.0	45.0	45.0	45.0	46.7	49.5	51.0	48.3	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	46.7	49.2	49.3	45.2	45.0
A	68.7	78.6	80.3	78.6	76.1	78.0	79.6	79.0	78.3	75.1	71.6
D	78.4	87.4	89.2	87.5	85.6	84.8	84.0	83.5	82.9	79.9	75.9
OASPL	87.0	93.9	95.3	94.4	93.7	93.0	87.5	86.9	86.6	82.6	80.0
PNL	85.3	93.0	94.7	93.7	92.0	92.4	91.8	91.7	90.8	87.8	83.8
PNLT	85.3	93.0	94.7	93.7	93.2	92.4	93.1	92.7	90.8	89.6	85.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 45, 110 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-12.0	-9.5	-7.0	-4.5	-2.0	0	.5	3.0	5.5	7.5
17	78.5	86.7	87.6	85.7	77.4	75.8	78.3	80.6	74.3	69.7
18	76.8	87.3	87.3	84.7	83.7	82.1	81.6	70.3	69.5	70.2
19	75.1	88.3	87.0	83.6	70.3	66.7	66.6	65.3	64.8	67.7
20	72.7	86.2	84.8	79.4	67.0	60.8	61.3	59.9	64.0	63.2
21	73.2	85.7	83.7	78.9	69.9	62.3	64.3	61.9	61.6	61.7
22	71.7	83.0	79.4	68.7	64.5	72.2	72.2	72.5	61.5	58.3
23	66.1	79.2	75.3	66.1	71.7	75.5	76.7	72.2	67.8	60.0
24	65.8	73.5	69.8	61.3	70.1	78.4	79.3	71.6	69.2	62.7
25	63.5	67.8	64.1	66.0	70.7	70.0	67.9	63.9	67.1	63.3
26	58.6	67.5	58.6	68.2	67.9	70.0	71.8	68.7	62.0	62.9
27	59.2	65.2	61.0	66.0	67.3	75.3	74.4	71.0	67.7	58.1
28	56.3	60.6	60.9	61.5	69.0	70.2	70.9	69.0	65.2	62.3
29	55.0	59.0	60.4	64.0	65.9	70.7	69.9	67.3	64.3	59.1
30	55.0	56.2	57.1	59.9	65.0	69.2	68.4	65.6	61.0	59.6
31	55.0	55.0	55.2	59.8	62.9	67.9	67.3	64.7	62.0	57.1
32	55.0	55.0	56.3	58.1	62.1	66.8	65.9	64.1	65.8	59.5
33	55.0	55.0	55.0	56.8	61.3	65.5	64.5	62.4	59.3	55.5
34	55.0	55.0	55.0	55.0	58.4	62.8	62.1	58.5	55.9	55.0
35	55.0	55.0	55.0	55.0	57.4	60.1	59.3	56.5	55.2	55.0
36	55.0	55.0	55.0	55.0	56.1	58.5	58.3	55.4	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.3	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	66.6	76.3	73.8	71.9	74.9	78.9	78.9	75.2	72.9	67.9
D	75.6	85.9	84.0	80.3	80.0	83.4	83.6	80.1	78.0	73.6
OASPL	84.1	93.9	92.9	90.0	85.4	86.2	87.0	82.8	80.5	78.6
PNL	84.6	93.5	92.0	89.5	88.7	91.8	92.0	88.2	86.6	83.1
PNLT	84.6	93.5	92.0	90.6	88.7	91.8	92.0	88.2	88.3	84.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 24, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-28.0	-23.0	-18.0	-13.0	-8.0	-3.0	-1.5	0	2.0	7.0	10.0
17	79.4	81.1	81.9	85.4	85.9	84.1	83.6	82.6	80.6	78.0	75.7
18	80.3	82.5	83.3	84.6	83.4	83.1	81.6	79.9	75.7	76.0	76.0
19	77.8	79.9	80.4	79.6	77.6	68.7	66.5	70.2	71.0	72.3	71.6
20	78.3	77.3	75.9	77.0	72.8	68.7	78.1	82.6	85.1	68.9	72.2
21	76.1	76.3	75.1	77.5	73.1	79.9	85.8	86.0	86.9	71.5	69.6
22	72.5	72.1	70.3	72.9	72.8	85.7	88.5	86.5	87.0	79.6	64.7
23	71.9	70.4	66.5	67.8	78.1	86.8	87.2	80.4	81.8	81.1	72.5
24	65.6	60.8	66.3	72.6	82.7	82.8	79.0	76.4	76.8	78.0	73.6
25	59.0	66.6	76.7	76.9	80.8	76.9	83.1	79.9	79.7	71.2	73.2
26	69.7	73.5	80.0	77.0	73.4	79.1	79.5	74.3	74.4	70.9	68.5
27	70.0	73.1	74.6	72.7	70.6	73.2	76.6	76.0	74.3	71.7	61.4
28	68.2	67.6	63.1	62.3	70.6	72.6	72.5	72.3	70.1	66.2	65.2
29	62.5	60.1	61.8	68.3	70.8	70.7	71.0	69.5	68.1	65.3	61.0
30	53.7	58.3	60.2	64.8	67.1	67.3	68.5	69.3	66.6	64.0	59.6
31	58.2	58.4	58.2	65.9	66.0	66.8	68.3	68.7	65.5	62.3	57.4
32	52.0	52.9	55.9	60.8	63.0	64.9	67.5	67.3	64.5	65.4	63.6
33	49.2	48.3	52.2	58.4	61.1	65.4	67.1	65.5	63.7	64.5	63.7
34	47.4	45.9	48.5	56.3	62.4	63.4	64.7	63.0	61.5	59.1	54.7
35	45.0	45.0	45.1	51.3	58.2	61.1	61.4	60.6	59.8	57.7	53.6
36	45.0	45.0	45.0	47.8	55.6	57.5	59.3	57.9	57.0	57.1	51.6
37	45.0	45.0	45.0	45.0	52.4	54.8	57.1	55.9	54.3	53.9	48.1
38	45.0	45.0	45.0	45.0	48.3	52.9	55.7	55.3	54.7	52.5	45.9
39	45.0	45.0	45.0	45.0	45.1	53.6	56.8	57.7	59.2	55.5	45.7
40	45.0	45.0	45.0	45.0	45.7	52.2	57.8	60.6	62.3	52.7	45.0
A	72.7	73.8	78.1	77.9	80.5	82.4	84.2	81.6	81.2	77.1	74.3
D	80.6	82.2	84.7	85.2	87.7	90.7	92.3	90.0	90.2	85.4	82.0
OASPL	85.9	87.9	88.6	90.7	91.9	93.8	95.0	94.4	94.3	89.2	86.3
PNL	86.3	87.7	91.0	91.3	94.0	96.7	98.0	96.2	96.0	92.0	87.1
PNLT	88.1	87.7	91.0	92.8	94.0	96.7	98.0	96.2	96.0	92.0	88.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 27, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-23.0	-18.0	-13.0	-8.0	-3.0	0	2.0	7.0	12.0
17	80.0	81.7	83.3	83.1	83.3	82.6	80.9	78.9	74.9
18	81.3	82.9	84.8	83.8	84.6	80.1	78.5	75.3	72.4
19	78.4	77.6	79.3	76.5	70.4	73.9	78.1	72.4	70.7
20	74.8	73.7	72.8	73.0	71.1	82.6	85.7	72.0	73.4
21	72.8	72.7	71.7	68.2	82.7	85.4	86.4	70.0	71.9
22	66.1	65.7	61.7	75.7	87.5	86.3	86.0	80.2	72.4
23	63.3	62.5	71.6	81.3	89.8	79.3	80.3	84.1	68.0
24	64.6	71.0	81.7	86.7	84.7	75.8	77.1	83.5	64.9
25	74.1	77.4	84.5	84.6	83.0	79.6	79.8	78.4	70.2
26	78.4	79.4	82.4	76.2	82.9	73.5	74.9	76.0	72.5
27	74.5	73.1	69.8	77.4	72.7	74.5	74.4	75.3	70.4
28	65.8	64.2	71.4	69.5	72.8	73.1	72.1	67.9	62.6
29	61.8	68.0	67.7	71.1	70.6	69.3	69.8	67.9	65.0
30	59.1	58.7	65.7	65.6	68.6	67.9	67.7	64.9	62.1
31	55.7	60.2	61.6	64.2	68.3	67.6	66.5	62.8	60.0
32	55.6	57.7	60.3	62.7	67.4	66.4	65.9	64.2	66.2
33	51.5	56.1	57.5	62.3	65.9	64.8	65.0	63.7	65.2
34	46.9	51.6	56.3	60.3	65.5	64.1	62.9	58.8	55.9
35	45.0	47.5	52.7	58.8	63.1	61.4	60.8	57.2	55.9
36	45.0	45.4	50.2	58.3	59.1	58.4	58.4	56.0	52.6
37	45.0	45.0	45.7	52.6	56.3	55.7	55.7	52.7	48.8
38	45.0	45.0	45.0	48.1	52.2	55.1	55.3	51.7	46.3
39	45.0	45.0	45.0	45.6	52.8	58.3	59.3	54.8	45.7
40	45.0	45.0	45.0	45.7	51.9	61.6	63.0	52.8	45.0
A	76.2	77.8	82.8	83.2	85.2	81.2	81.6	81.3	75.0
D	83.0	85.0	89.5	91.2	93.4	89.7	90.1	89.2	82.3
OASPL	86.9	88.2	91.3	92.9	95.5	94.2	94.7	91.0	84.7
PNL	89.4	90.7	94.3	96.3	99.1	96.0	96.1	94.3	88.1
PNLT	89.4	92.9	94.3	97.5	99.1	96.0	96.1	94.3	89.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 29, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-50.5	-41.0	-31.5	-22.0	-12.5	-3.0	0	6.5	16.0	18.0
17	77.5	75.3	78.0	79.9	84.3	81.0	75.8	74.9	73.8	72.4
18	77.8	76.1	79.3	81.3	84.7	77.7	73.4	69.5	68.8	68.7
19	74.4	73.2	77.3	78.8	79.4	64.2	66.2	67.5	65.8	63.5
20	74.7	70.5	76.1	77.1	77.8	71.1	76.3	67.8	69.8	71.2
21	75.2	69.0	76.6	78.4	77.7	77.5	77.1	68.1	63.6	63.6
22	71.8	70.2	74.3	74.9	70.3	81.9	81.5	74.9	65.4	64.5
23	70.9	71.4	72.2	71.8	65.6	79.4	72.8	74.9	61.2	58.3
24	66.0	66.5	66.7	67.9	68.6	78.0	71.4	67.8	60.8	57.6
25	65.2	66.5	59.2	58.0	74.7	75.1	72.9	60.9	61.8	59.9
26	67.8	68.4	55.8	57.1	77.4	75.7	67.1	67.1	62.4	61.4
27	64.6	65.8	52.8	58.7	72.7	71.4	69.3	63.5	58.8	60.0
28	55.5	56.7	52.5	60.6	63.3	69.8	68.7	64.4	57.2	51.1
29	48.9	45.9	50.2	57.0	66.3	67.8	67.4	65.3	59.3	58.1
30	45.3	45.7	47.9	51.3	60.5	66.9	67.3	61.8	56.2	53.1
31	45.0	47.2	46.8	50.1	62.1	65.6	67.5	59.8	54.8	54.1
32	45.0	47.8	45.1	48.5	58.6	66.7	65.3	62.9	58.7	61.7
33	45.0	45.0	45.0	45.8	57.3	65.8	63.3	60.4	58.3	57.4
34	45.0	45.0	45.0	46.5	55.3	62.3	61.5	55.1	52.7	48.8
35	45.0	45.0	45.0	45.0	50.4	60.9	58.9	55.4	52.6	48.2
36	45.0	45.0	45.0	45.0	47.0	57.1	56.1	53.8	49.6	45.5
37	45.0	45.0	45.0	45.0	45.0	54.1	53.7	50.1	45.8	45.0
38	45.0	45.0	45.0	45.0	45.0	51.0	52.7	49.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	51.9	55.6	50.9	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	50.8	57.3	48.2	45.0	45.0
A	68.9	69.5	67.4	69.5	76.7	78.7	77.6	73.2	67.4	67.7
D	78.2	77.4	78.6	80.3	84.2	87.0	85.1	80.8	75.4	75.3
OASPL	83.5	81.9	84.7	86.8	90.0	91.3	90.2	84.6	79.5	78.9
PNL	83.4	82.8	83.6	85.5	90.7	92.8	91.4	86.9	81.8	81.4
PNLT	83.4	82.8	83.6	85.5	92.1	92.8	91.4	86.9	81.8	83.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 30, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-23.0	-17.0	-11.0	-5.0	0	1.0	7.0	13.0	19.0	21.0
17	78.5	80.6	82.3	85.0	74.1	72.2	74.8	71.3	68.8	69.4
18	78.5	79.9	81.3	82.6	72.9	69.0	69.1	65.9	66.3	65.0
19	78.5	78.8	78.6	77.1	60.1	58.7	65.1	64.3	61.7	61.6
20	77.4	76.4	74.1	71.6	72.3	75.5	62.5	66.3	65.9	64.2
21	75.9	73.6	73.5	69.8	76.0	73.8	58.2	61.7	63.4	62.4
22	72.4	72.4	69.8	70.3	79.4	77.3	66.8	59.9	63.1	63.6
23	71.1	71.9	65.1	75.1	74.1	68.4	70.6	55.7	59.7	58.5
24	65.2	63.4	64.0	78.5	68.8	65.9	66.6	50.7	53.4	55.1
25	55.1	57.9	67.9	77.0	72.7	68.5	61.5	52.7	50.9	51.1
26	51.8	70.1	73.7	72.0	68.5	66.0	58.3	54.5	50.4	49.4
27	51.1	70.9	71.3	71.1	69.6	68.3	63.5	55.4	52.9	50.8
28	49.3	67.2	62.1	67.8	67.4	67.5	58.3	51.0	50.5	50.1
29	49.3	58.2	61.7	62.5	66.5	67.6	59.6	48.0	48.3	48.8
30	46.3	52.1	58.2	60.8	67.9	68.0	57.2	49.7	48.0	48.3
31	46.9	51.2	56.6	60.5	67.4	67.7	55.1	49.8	51.5	52.6
32	45.4	48.5	54.7	58.5	66.1	65.3	62.2	59.6	60.8	60.5
33	45.0	47.7	55.1	56.4	65.3	63.7	56.1	52.7	54.4	55.0
34	45.0	47.0	50.8	55.8	62.7	62.5	53.4	47.2	49.9	52.6
35	45.0	45.0	47.1	53.9	61.6	61.2	55.7	49.5	57.6	57.9
36	45.0	45.0	45.0	53.1	58.6	58.4	50.9	45.0	46.3	46.7
37	45.0	45.0	45.0	48.8	55.3	55.8	47.8	45.0	45.0	45.0
38	45.0	45.0	45.0	46.1	52.6	54.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	53.2	55.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	54.2	56.5	45.0	45.0	45.0	45.0
A	66.7	72.3	73.6	76.5	77.2	76.0	69.3	63.4	65.5	65.3
D	78.4	80.1	81.1	84.4	84.8	83.3	77.2	71.7	74.4	74.3
OASPL	84.8	85.8	87.0	89.9	89.1	88.3	80.2	76.2	74.8	74.8
PNL	83.2	85.7	87.3	90.4	90.7	89.4	83.1	78.6	80.3	80.5
PNLT	83.2	85.7	87.3	90.4	90.7	89.4	85.3	81.4	83.5	83.2

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 31, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-42.0	-34.0	-26.0	-18.0	-10.0	-2.0	-1.0	0	6.0	14.0	15.0
17	78.3	78.6	79.5	80.9	83.6	76.8	75.6	73.7	76.6	73.7	72.9
18	78.6	79.4	80.3	82.0	83.4	75.0	73.9	72.1	72.2	68.3	67.4
19	75.7	77.0	77.3	77.3	77.0	60.9	63.7	63.8	64.1	65.3	63.6
20	75.8	76.3	74.2	76.4	73.8	73.1	75.0	75.7	63.6	66.8	65.8
21	74.9	76.0	73.3	77.0	73.2	77.6	78.7	76.7	66.4	60.9	59.3
22	72.2	74.2	71.5	74.6	63.4	81.1	81.9	80.9	75.5	55.8	55.8
23	71.0	73.0	71.8	72.6	67.6	75.5	74.8	72.4	76.5	61.3	58.4
24	66.4	67.8	67.4	63.6	73.8	72.9	72.1	71.3	69.3	62.2	57.1
25	62.8	62.2	60.5	63.6	75.0	76.2	76.5	73.9	66.1	62.1	59.5
26	62.3	61.3	59.2	72.2	73.2	71.9	71.1	68.7	69.6	60.9	58.7
27	56.6	59.8	59.6	73.5	66.0	72.6	73.5	71.1	66.9	55.0	52.9
28	50.9	53.1	55.5	69.0	67.3	67.9	69.7	68.9	66.5	59.4	55.2
29	46.4	47.0	52.9	59.6	59.1	67.0	68.2	68.4	66.9	56.1	54.0
30	45.0	46.5	51.2	59.2	58.5	67.8	69.8	68.4	64.0	56.7	54.7
31	45.1	47.1	51.5	59.0	57.5	67.2	68.6	68.1	62.1	55.1	53.4
32	45.0	45.1	47.7	55.2	58.9	66.2	67.4	64.8	62.3	64.1	62.3
33	45.0	45.0	47.4	51.6	55.4	65.4	65.1	63.4	61.3	61.1	59.4
34	45.0	45.0	45.9	49.9	54.9	63.1	63.0	61.6	58.2	53.4	51.1
35	45.0	45.0	45.0	48.2	52.9	59.8	60.4	59.5	56.8	52.6	49.6
36	45.0	45.0	45.0	45.6	49.1	57.7	58.4	56.3	54.8	49.8	47.6
37	45.0	45.0	45.0	45.0	45.7	54.5	55.6	54.5	51.7	46.0	45.4
38	45.0	45.0	45.0	45.0	45.0	53.3	54.0	53.0	49.8	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	54.6	55.8	55.3	52.4	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	54.4	56.6	57.4	50.4	45.0	45.0
A	66.7	68.1	67.6	75.0	74.6	78.3	78.7	77.7	74.5	69.6	67.5
D	77.6	79.2	78.1	82.2	82.7	85.6	86.2	84.8	82.1	77.0	75.0
OASPL	84.1	84.9	85.2	87.4	89.4	90.4	90.9	90.4	85.8	79.8	78.6
PNL	82.8	84.0	83.5	88.0	88.3	92.0	92.7	91.3	88.4	83.0	81.0
PNLT	82.8	84.0	83.5	88.0	89.9	92.0	92.7	91.3	88.4	85.0	83.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 32, 99 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-18.5	-15.0	-11.5	-8.0	-4.5	-2.0	-1.0	0	2.5	6.0	7.0
17	80.8	86.5	84.8	86.7	88.2	82.5	76.6	78.0	78.0	74.5	75.1
18	81.6	86.0	84.9	86.2	86.1	83.1	80.9	78.4	69.0	72.3	72.8
19	81.7	86.2	84.8	86.8	84.7	77.0	69.8	63.1	62.2	65.3	67.4
20	82.1	84.0	83.0	84.6	80.9	70.2	69.0	74.3	75.6	63.4	64.3
21	82.2	83.2	83.4	84.2	78.7	73.7	79.1	81.0	69.8	57.3	58.2
22	81.2	78.3	81.7	80.1	69.3	77.1	79.9	81.8	77.4	64.5	58.2
23	79.5	74.8	79.7	76.5	75.4	84.3	83.3	79.1	71.9	69.6	66.4
24	75.1	68.0	75.2	65.6	80.4	84.9	79.7	73.2	66.2	67.1	64.8
25	68.9	63.0	65.6	66.1	82.2	77.9	77.9	77.2	70.0	63.4	63.8
26	61.7	61.7	59.9	66.1	79.5	81.2	81.2	74.4	66.2	62.1	58.1
27	55.9	54.2	56.0	67.5	71.4	79.1	76.6	74.9	70.2	67.3	62.9
28	52.3	51.0	58.7	64.5	74.0	74.4	73.8	70.9	68.2	61.1	60.6
29	47.4	50.3	58.6	56.5	68.8	73.4	73.1	69.5	66.1	63.8	61.2
30	46.5	49.3	54.9	61.6	69.1	70.3	69.8	68.0	63.6	61.7	58.4
31	44.2	47.6	50.7	55.4	64.3	70.3	69.4	68.1	62.2	60.2	57.6
32	44.5	45.4	48.8	51.6	62.0	69.5	68.8	67.3	63.3	67.8	65.0
33	43.6	45.0	47.6	50.1	59.7	67.8	66.7	66.7	62.2	59.5	56.7
34	43.5	45.0	45.5	47.2	58.4	68.0	66.6	64.7	60.5	56.4	54.0
35	43.5	45.0	45.0	45.0	55.4	65.0	64.3	63.0	59.6	57.5	55.8
36	43.5	45.0	45.0	45.0	51.5	61.3	60.9	59.8	58.2	53.0	51.2
37	43.5	45.0	45.0	45.0	48.0	57.4	57.5	57.1	55.7	50.7	47.7
38	43.5	45.0	45.0	45.0	45.7	53.4	54.6	54.7	55.0	48.4	45.7
39	43.5	45.0	45.0	45.0	45.0	50.2	54.1	57.4	57.7	47.9	45.4
40	43.5	45.0	45.0	45.0	45.0	47.8	51.6	56.7	58.7	45.8	45.0
A	74.5	72.7	74.9	74.6	81.2	83.7	82.6	79.7	75.5	73.0	70.5
D	85.4	85.4	86.3	86.3	88.8	90.8	89.8	87.7	83.0	80.1	77.9
OASPL	89.8	91.9	91.5	92.9	93.3	92.9	91.5	90.6	87.5	83.0	82.3
PNL	88.7	89.3	90.2	91.1	94.8	97.2	96.0	93.6	89.2	86.6	84.2
PNLT	88.7	89.3	90.2	93.0	96.1	97.2	96.0	93.6	89.2	89.3	86.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 33, 99 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-20.0	-16.0	-12.0	-8.0	-4.0	-1.5	0	4.0	8.0	11.0
17	80.5	84.0	84.6	87.0	87.2	80.1	78.1	76.6	74.9	71.6
18	81.0	85.3	84.4	85.7	85.0	81.8	78.2	73.7	73.8	71.4
19	80.8	87.0	83.7	86.0	82.1	71.5	63.6	65.2	69.6	67.5
20	78.0	86.9	79.9	83.7	78.5	68.1	74.2	65.6	67.3	66.7
21	76.6	87.8	78.1	82.9	74.9	77.7	81.6	66.4	61.4	63.1
22	72.3	86.6	79.9	78.7	69.7	79.7	81.3	74.2	54.9	61.2
23	71.1	85.3	77.9	75.0	76.5	84.8	79.6	73.2	61.2	55.5
24	69.3	81.1	71.3	66.6	78.7	82.0	72.5	66.6	62.1	53.3
25	68.4	76.6	64.0	69.1	78.4	73.1	76.9	66.0	63.6	57.5
26	64.4	73.2	59.9	72.5	75.3	77.8	72.6	68.7	60.7	62.6
27	60.9	70.2	55.5	72.3	70.0	72.9	72.1	68.7	57.6	62.0
28	60.2	65.7	55.6	66.4	71.1	74.0	69.7	66.3	61.1	53.2
29	55.1	59.2	55.7	62.5	65.9	72.1	69.2	65.9	57.2	57.7
30	51.3	56.5	53.3	65.9	61.3	69.4	66.9	62.7	58.4	54.0
31	47.5	54.0	48.5	62.8	59.3	68.2	66.6	61.4	56.6	53.4
32	45.7	50.7	46.2	56.6	57.2	66.8	66.0	64.0	62.7	64.3
33	45.2	47.8	45.3	52.5	57.1	65.6	65.9	60.0	55.4	54.6
34	45.0	45.4	45.7	50.9	56.2	64.9	64.3	56.6	54.1	50.2
35	45.0	45.0	45.0	47.7	54.7	62.9	62.1	57.3	55.2	54.3
36	45.0	45.0	45.0	45.8	50.8	59.7	59.1	54.6	49.2	47.0
37	45.0	45.0	45.0	45.0	48.2	55.6	55.9	52.4	46.7	45.1
38	45.0	45.0	45.0	45.0	45.3	52.6	54.1	50.9	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	50.2	55.4	53.9	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	47.7	54.8	53.2	45.0	45.0
A	69.3	80.4	72.8	76.3	78.0	81.2	78.8	74.0	69.2	68.1
D	78.7	89.1	82.4	84.4	84.4	87.3	85.3	79.6	75.1	73.9
OASPL	86.6	94.6	90.0	92.3	92.1	91.8	90.2	85.5	81.5	78.4
PNL	85.4	94.7	88.1	91.5	91.9	95.5	93.0	87.2	82.9	82.4
PNLT	85.4	94.7	88.1	92.6	92.9	95.5	93.0	88.3	85.1	85.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 34, 99 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-19.0	-15.5	-12.0	-8.5	-5.0	-1.5	-1.0	0	2.0	5.5	8.0
17	80.9	84.8	85.0	86.9	88.0	81.2	77.3	76.1	78.8	74.2	73.2
18	80.0	84.5	84.9	85.5	86.3	81.9	80.9	78.2	73.1	75.1	73.0
19	81.5	85.8	83.9	86.5	85.1	72.2	67.3	63.3	61.5	68.7	70.3
20	79.6	86.2	81.9	84.7	82.5	68.3	71.6	75.3	76.1	67.0	68.9
21	76.3	86.5	81.7	83.9	80.3	77.9	80.5	81.6	71.1	61.8	65.0
22	73.9	84.9	79.1	80.3	71.7	79.2	80.7	82.6	78.4	61.4	60.7
23	71.8	83.6	78.8	76.4	71.3	84.1	83.4	79.6	73.4	65.8	56.1
24	69.8	79.6	75.1	65.9	76.1	81.1	78.7	73.2	67.1	64.7	57.5
25	61.1	74.7	67.6	65.3	76.2	72.5	76.1	78.3	70.0	64.1	61.4
26	52.2	71.6	60.3	65.5	75.4	76.5	77.2	74.3	67.3	59.1	64.3
27	49.2	68.3	56.7	62.9	68.9	72.9	74.8	74.9	71.4	66.1	60.9
28	48.2	65.4	58.3	60.8	66.3	72.4	72.4	71.6	70.1	61.1	57.6
29	47.3	59.6	59.7	53.6	66.2	70.9	71.4	70.4	66.9	63.2	60.7
30	46.9	57.0	57.2	52.8	61.2	68.3	68.4	69.6	65.9	60.3	56.1
31	45.2	55.5	48.6	51.9	59.2	68.1	68.4	68.3	63.8	59.9	55.7
32	45.0	52.1	46.4	48.7	56.9	68.4	69.1	68.3	64.5	68.9	63.1
33	45.0	49.0	46.8	45.6	55.2	66.6	67.1	67.0	62.9	59.8	55.9
34	45.0	46.7	45.3	45.3	54.8	65.8	66.2	65.6	62.0	57.7	52.6
35	45.0	45.0	45.0	45.0	51.8	62.8	63.0	62.7	61.0	59.6	53.0
36	45.0	45.0	45.0	45.0	49.6	60.7	61.3	60.6	58.5	54.9	48.3
37	45.0	45.0	45.0	45.0	45.9	57.5	58.7	58.6	56.6	51.6	45.6
38	45.0	45.0	45.0	45.0	45.0	54.6	55.8	56.7	56.0	48.8	45.0
39	45.0	45.0	45.0	45.0	45.0	53.0	56.4	58.7	59.5	48.2	45.0
40	45.0	45.0	45.0	45.0	45.0	50.9	54.6	59.3	59.9	45.8	45.0
A	68.2	79.2	73.8	74.1	76.9	81.1	81.5	80.9	76.8	73.0	68.8
D	79.1	87.7	83.4	84.5	84.5	87.2	87.4	86.6	82.5	79.0	74.6
OASPL	87.3	93.7	91.1	92.8	93.0	91.8	91.3	90.7	88.2	82.8	80.9
PNL	85.1	93.5	89.3	90.4	91.4	95.3	95.4	94.3	90.4	87.2	82.8
PNLT	85.1	93.5	89.3	90.4	91.4	95.3	95.4	94.3	90.4	90.2	85.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 35, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-18.0	-14.0	-10.0	-6.0	-2.0	0	2.0	6.0	10.0	10.5
17	82.4	88.1	88.2	88.7	85.3	80.1	79.9	76.9	79.6	77.7
18	80.6	87.1	85.5	88.4	85.8	79.1	79.2	79.0	81.8	80.7
19	81.5	87.9	85.8	87.8	79.5	68.9	70.3	75.4	82.2	81.5
20	79.9	87.4	84.3	85.8	72.9	76.2	74.4	72.5	76.8	76.3
21	80.6	88.1	85.2	84.6	77.7	82.0	74.3	68.2	68.2	67.6
22	78.0	85.4	83.5	80.0	79.6	83.2	78.8	66.5	70.9	70.1
23	76.6	83.9	83.1	78.2	85.8	80.0	76.1	66.5	67.4	68.2
24	72.9	80.0	78.7	75.8	84.5	73.5	69.5	69.1	64.3	65.3
25	69.3	73.7	70.0	75.4	77.4	78.2	72.0	67.9	62.4	62.3
26	62.7	73.8	68.0	75.3	80.2	74.0	70.8	65.0	61.3	61.0
27	57.0	71.0	64.2	72.0	77.7	74.9	71.9	62.0	63.5	62.5
28	54.3	66.6	63.9	63.9	75.1	72.8	69.7	65.9	60.0	60.1
29	50.8	63.4	61.9	66.0	74.3	73.8	69.3	62.4	56.1	55.0
30	48.1	61.0	58.8	60.2	72.3	71.5	67.0	63.5	57.8	57.4
31	46.4	58.0	58.4	58.8	70.2	70.6	65.2	61.6	54.3	54.0
32	45.0	54.2	54.3	56.8	68.9	69.6	66.5	67.5	60.8	61.0
33	45.0	51.3	49.5	53.1	66.7	69.2	64.5	60.1	53.6	52.4
34	45.0	47.1	48.4	51.9	67.4	68.4	62.4	58.2	52.1	51.0
35	45.0	45.0	45.3	48.0	64.8	66.3	61.1	57.9	51.6	50.3
36	45.0	45.0	45.0	45.7	61.7	63.0	58.5	52.1	46.0	45.8
37	45.0	45.0	45.0	45.0	57.3	60.5	56.8	49.7	45.0	45.0
38	45.0	45.0	45.0	45.0	55.1	58.0	55.4	46.1	45.0	45.0
39	45.0	45.0	45.0	45.0	52.2	59.9	58.8	45.9	45.0	45.0
40	45.0	45.0	45.0	45.0	49.6	61.3	59.4	45.0	45.0	45.0
A	72.2	79.9	77.9	78.2	83.5	81.8	77.6	73.8	69.5	69.1
D	81.7	89.0	86.8	86.7	89.3	87.7	83.6	79.6	78.4	77.8
OASPL	88.8	95.5	93.8	94.7	94.0	91.8	89.8	85.8	86.6	85.8
PNL	87.6	95.0	93.0	93.3	97.6	95.6	91.5	87.7	86.0	85.3
PNLT	87.6	95.0	93.0	94.6	97.6	95.6	91.5	90.0	88.3	87.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 36, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.5	-14.5	-11.5	-8.5	-5.5	-2.5	0	.5	3.5	4.5
17	83.0	84.4	85.4	87.3	89.6	89.7	75.2	75.5	72.7	73.7
18	83.9	85.2	84.7	86.4	88.5	88.8	78.4	75.7	77.2	76.8
19	83.6	84.9	86.2	87.2	89.0	86.1	63.6	61.6	68.4	71.0
20	83.8	84.2	85.7	86.8	86.5	79.7	76.4	78.1	62.6	66.0
21	82.9	85.1	85.5	86.9	85.4	76.3	82.6	80.8	63.7	61.4
22	80.9	83.0	83.5	83.5	79.7	79.3	83.6	83.9	71.4	67.3
23	77.6	82.0	81.3	82.9	75.2	85.6	79.8	76.9	72.8	70.4
24	72.2	78.5	76.3	75.2	75.4	86.8	74.2	73.4	70.0	69.1
25	68.6	73.8	68.8	70.5	74.8	84.2	78.5	76.8	64.3	66.1
26	66.4	70.5	66.2	69.3	77.2	80.4	74.6	72.1	69.1	64.0
27	60.9	66.2	61.4	67.6	75.7	79.4	75.2	72.1	69.6	70.0
28	54.8	63.4	56.1	66.8	68.6	76.8	72.7	71.6	68.1	65.5
29	53.5	55.6	55.5	65.2	67.7	75.5	72.2	71.4	67.3	67.6
30	50.9	52.7	54.8	58.1	68.2	72.0	70.6	69.4	64.7	65.5
31	50.4	51.5	52.6	60.5	65.6	70.5	70.0	69.0	64.0	64.5
32	47.2	49.7	47.7	55.1	61.8	69.1	69.6	68.8	69.7	68.2
33	46.2	46.4	46.4	52.0	58.2	67.5	69.5	68.5	63.1	62.5
34	45.0	46.3	45.6	50.8	55.5	67.4	67.6	66.2	59.5	60.5
35	45.0	45.0	45.0	46.3	51.0	65.9	65.1	64.2	60.7	61.1
36	45.0	45.0	45.0	45.0	48.5	63.1	62.2	61.5	55.8	56.1
37	45.0	45.0	45.0	45.0	45.0	59.2	60.4	59.6	53.2	53.4
38	45.0	45.0	45.0	45.0	45.0	55.2	58.8	58.3	51.2	50.3
39	45.0	45.0	45.0	45.0	45.0	51.5	59.5	60.1	53.5	50.2
40	45.0	45.0	45.0	45.0	45.0	50.2	61.0	62.3	52.2	47.2
A	74.2	77.6	76.5	78.2	79.5	85.6	81.9	80.5	76.4	75.4
D	83.8	86.4	86.1	87.2	87.5	91.4	88.0	86.8	81.5	80.5
OASPL	90.8	92.7	93.0	94.3	95.5	96.1	90.9	90.1	86.2	85.3
PNL	89.6	92.1	91.8	93.8	94.7	99.5	95.4	94.7	89.7	88.7
PNLT	89.6	92.1	91.8	95.1	94.7	99.5	95.4	94.7	91.7	90.2

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 37, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-12.0	-9.5	-7.0	-4.5	-2.0	-1.0	0	.5	3.0	4.5
17	84.0	87.9	86.0	89.1	91.3	90.3	87.7	81.8	79.7	75.5	73.8
18	81.7	87.4	86.0	89.2	90.1	86.9	86.2	83.3	79.8	80.0	78.0
19	79.2	88.7	86.6	89.7	88.8	81.6	73.1	66.5	66.2	70.8	73.3
20	83.4	89.2	87.7	89.8	86.8	75.2	74.1	77.6	78.7	67.2	70.7
21	84.0	89.3	88.6	89.3	85.4	79.2	84.4	83.5	81.0	70.3	66.1
22	80.7	87.7	88.0	86.5	78.3	84.0	86.6	84.3	82.8	76.1	66.3
23	76.1	85.4	86.7	83.0	78.7	87.3	89.4	82.8	77.4	76.6	70.9
24	72.2	81.4	80.5	77.1	81.7	85.8	83.6	75.7	73.8	71.3	70.7
25	71.9	76.2	75.0	79.2	80.1	78.6	82.6	80.9	77.4	65.4	68.2
26	69.5	78.6	77.3	77.1	81.9	79.2	82.5	77.1	72.5	70.2	63.5
27	67.8	77.9	75.5	74.3	78.0	78.2	78.2	76.5	73.7	68.6	66.3
28	58.7	73.9	69.9	72.9	72.1	75.8	76.3	73.7	71.6	66.9	64.9
29	60.5	71.3	67.7	67.0	73.7	73.5	74.4	73.9	72.0	66.9	63.3
30	53.9	68.1	64.8	62.1	69.5	71.5	72.0	71.3	70.2	65.1	62.5
31	51.8	65.4	62.7	61.2	70.4	70.9	70.9	70.1	69.1	63.7	61.1
32	51.3	59.8	56.7	60.9	68.2	69.1	70.2	70.7	69.8	67.2	67.9
33	47.6	56.1	55.8	56.4	64.7	67.7	69.9	69.4	68.1	62.1	59.7
34	45.6	51.4	50.0	50.6	61.9	67.8	69.3	68.6	66.9	59.9	58.0
35	45.0	48.4	46.8	47.3	58.6	65.0	66.3	66.1	65.0	59.2	58.7
36	45.0	46.8	45.0	45.2	54.1	59.9	63.0	62.5	61.1	56.5	53.8
37	45.0	45.4	45.0	45.0	50.2	57.1	60.3	59.9	58.9	53.5	51.9
38	45.0	45.0	45.0	45.0	46.3	54.1	57.5	57.7	57.7	52.8	48.7
39	45.0	45.0	45.0	45.0	45.0	50.9	56.6	59.5	59.9	56.0	49.1
40	45.0	45.0	45.0	45.0	45.0	47.8	54.3	59.9	61.2	54.5	46.5
A	74.6	83.3	82.5	82.0	83.3	84.6	85.5	82.9	80.6	76.1	73.7
D	83.8	90.9	90.5	90.3	89.9	90.9	91.7	89.3	87.1	81.9	79.7
OASPL	90.4	96.5	95.6	97.0	96.6	95.8	95.8	92.9	91.2	87.3	84.8
PNL	90.4	97.3	96.5	96.7	97.5	98.8	100.2	96.7	94.8	89.8	88.0
PNLT	91.8	97.3	96.5	96.7	97.5	98.8	100.2	96.7	94.8	91.2	90.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 38, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.0	-13.5	-11.0	-8.5	-6.0	-3.5	-1.0	0	1.5	4.0
17	82.4	89.0	89.6	90.5	91.8	94.3	88.9	80.1	75.6	73.0
18	81.3	90.4	90.6	91.0	91.5	93.1	86.1	80.1	73.1	73.6
19	81.1	90.6	91.5	92.1	92.0	92.6	78.7	65.0	63.3	67.3
20	80.2	90.8	91.5	92.1	90.8	89.2	72.0	76.5	76.7	64.9
21	78.7	92.2	92.3	92.6	91.2	87.8	81.3	83.4	72.2	59.6
22	79.5	90.2	91.8	91.8	89.5	80.6	82.0	84.0	79.6	64.5
23	77.9	89.0	90.4	91.1	88.3	80.8	87.2	82.5	74.6	69.5
24	76.0	86.9	86.6	87.4	81.8	85.0	83.8	75.1	70.0	69.2
25	70.8	83.4	80.6	80.3	70.4	85.2	77.9	78.9	73.7	67.2
26	66.5	80.3	75.3	73.1	66.7	83.3	80.3	76.6	71.7	64.9
27	64.0	76.0	71.8	69.1	70.2	76.9	77.8	76.3	74.1	69.7
28	59.8	73.0	67.4	69.1	70.2	73.0	75.6	74.0	70.8	66.6
29	56.1	64.7	64.1	69.1	67.9	70.0	75.0	73.6	71.3	66.6
30	55.0	60.1	60.0	69.5	61.7	65.8	73.7	71.2	69.7	65.0
31	55.0	57.3	58.4	64.4	58.7	63.2	73.5	71.9	68.5	65.2
32	55.0	56.7	55.6	61.0	56.1	61.7	72.3	71.7	68.8	70.4
33	55.0	55.0	55.0	58.1	55.0	60.4	70.2	70.1	67.9	65.5
34	55.0	55.0	55.0	55.5	55.0	60.9	70.1	68.3	66.5	64.0
35	55.0	55.0	55.0	55.0	55.0	58.7	67.7	65.5	65.3	63.4
36	55.0	55.0	55.0	55.0	55.0	57.1	64.8	63.6	63.1	59.8
37	55.0	55.0	55.0	55.0	55.0	55.0	61.8	60.8	61.1	56.6
38	55.0	55.0	55.0	55.0	55.0	55.0	59.8	59.9	60.1	55.5
39	55.0	55.0	55.0	55.0	55.0	55.0	58.9	61.7	62.6	56.0
40	55.0	55.0	55.0	55.0	55.0	55.0	58.0	62.9	64.5	55.2
A	73.0	85.5	85.1	85.2	82.5	84.7	85.2	83.5	79.9	76.2
D	83.0	93.9	94.0	94.3	92.3	92.0	90.9	88.4	85.4	81.9
OASPL	89.1	98.8	99.4	99.9	99.2	99.3	95.5	92.2	88.3	83.7
PNL	90.3	99.8	100.0	100.7	98.4	99.1	99.4	96.6	93.5	90.3
PNLT	90.3	99.8	100.0	100.7	98.4	99.1	99.4	96.6	93.5	92.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 43, 3 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-46.0	-38.0	-30.0	-22.0	-14.0	-6.0	-2.5	0	2.0	10.0	10.5
17	76.9	78.8	78.0	80.8	83.7	84.3	82.8	79.1	81.8	77.1	76.8
18	78.9	79.4	77.3	81.4	84.2	84.7	82.6	75.9	75.9	73.9	74.1
19	76.9	74.6	73.8	78.4	80.0	75.9	68.2	64.6	67.7	69.4	69.7
20	76.5	72.3	71.6	78.4	77.7	70.7	70.3	76.5	79.6	70.5	70.9
21	75.5	72.5	71.1	79.1	77.4	69.0	79.2	79.9	78.2	67.4	67.1
22	75.0	67.2	71.7	76.4	75.1	77.8	83.6	81.6	82.1	63.9	64.5
23	77.3	67.6	71.0	75.0	71.3	82.5	84.9	75.2	74.9	71.7	69.1
24	74.0	66.5	68.1	69.2	67.0	84.2	79.1	73.1	73.1	75.0	73.0
25	72.0	64.6	66.4	63.4	72.8	78.5	78.9	76.7	74.9	74.5	72.9
26	67.8	60.6	62.1	60.9	76.6	71.5	77.6	72.5	70.8	68.5	66.8
27	64.9	61.3	52.0	56.9	74.8	75.3	74.8	73.4	71.9	59.3	59.0
28	57.3	53.2	51.2	54.7	65.0	70.0	73.7	71.5	70.2	64.6	61.3
29	52.2	50.2	51.6	54.5	65.3	71.5	71.8	69.7	68.5	60.6	60.1
30	52.0	52.7	52.7	53.9	66.9	68.8	71.1	69.4	67.2	60.4	58.9
31	53.4	48.4	48.6	47.0	64.4	68.2	72.0	69.0	66.0	58.3	57.2
32	50.4	45.4	45.2	46.9	62.1	68.2	71.5	67.9	66.5	61.0	60.4
33	46.4	45.0	45.3	45.9	60.2	67.1	70.3	65.9	66.1	59.5	59.2
34	45.0	45.0	45.0	45.2	55.6	65.4	67.7	64.3	64.2	55.7	54.5
35	45.0	45.0	45.0	45.0	51.9	61.9	64.2	62.6	61.9	54.2	53.0
36	45.0	45.0	45.0	45.0	47.9	57.9	62.2	61.3	60.0	51.8	51.0
37	45.0	45.0	45.0	45.0	45.0	55.0	59.7	58.2	57.4	48.8	47.9
38	45.0	45.0	45.0	45.0	45.0	50.5	56.2	56.5	56.7	45.8	45.6
39	45.0	45.0	45.0	45.0	45.0	48.1	56.4	59.5	59.9	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	49.4	55.8	62.6	63.4	45.0	45.0
A	72.4	65.9	67.3	70.0	76.4	81.0	82.9	80.1	78.5	73.5	71.8
D	80.2	74.7	75.6	79.5	82.7	87.4	88.8	86.0	85.1	79.9	78.6
OASPL	85.4	83.8	83.6	87.4	89.5	92.5	93.8	93.1	92.8	85.3	84.6
PNL	87.2	81.9	82.4	86.2	91.0	95.6	96.9	93.5	93.3	87.2	85.9
PNLT	87.2	83.0	82.4	86.2	91.0	95.6	96.9	93.5	93.3	88.7	85.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 44, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.5	-14.5	-11.5	-8.5	-5.5	-2.5	0	.5	3.5	6.5
17	81.7	85.0	86.2	86.9	90.3	91.3	78.7	76.6	75.7	74.3
18	80.7	85.6	86.9	86.2	89.4	87.9	78.0	75.1	78.2	73.8
19	79.9	85.0	88.1	86.5	89.4	86.5	64.3	61.3	69.1	70.9
20	79.6	85.4	87.9	85.8	87.0	81.3	74.3	77.0	63.6	70.0
21	79.8	86.9	88.2	86.0	86.4	76.3	79.9	78.7	64.9	63.7
22	77.8	87.7	85.8	84.2	81.3	77.6	80.8	80.9	72.0	58.5
23	79.8	86.1	82.9	81.6	76.8	85.3	78.8	75.6	73.3	57.5
24	77.4	80.5	78.2	73.2	76.0	87.2	72.5	69.6	71.1	61.8
25	74.0	73.3	71.8	67.8	76.5	84.4	75.4	73.8	65.8	65.2
26	70.3	72.7	71.4	67.7	73.4	79.5	74.2	70.9	69.3	65.6
27	66.5	70.4	68.2	64.4	71.9	78.3	75.4	73.3	69.2	61.7
28	60.0	66.4	63.1	62.5	65.1	77.4	74.2	73.5	68.4	62.2
29	54.0	62.0	58.0	59.0	60.2	75.1	73.4	72.9	66.0	62.5
30	51.5	56.2	56.1	53.1	60.2	72.0	71.4	71.2	65.5	59.9
31	49.9	55.8	54.9	54.3	56.3	71.2	71.6	71.2	64.1	59.5
32	47.5	49.9	54.0	50.4	55.1	70.2	71.0	70.7	68.2	69.6
33	45.0	48.4	51.1	50.1	52.3	68.5	69.0	68.4	62.6	60.3
34	45.0	45.2	50.7	47.4	51.4	67.2	67.9	67.5	60.8	57.3
35	45.0	45.0	46.4	45.1	48.1	63.8	67.0	66.6	59.6	57.0
36	45.0	45.0	45.0	45.0	47.4	60.8	64.7	64.2	56.1	51.9
37	45.0	45.0	45.0	45.0	45.5	57.6	62.7	62.4	54.6	50.0
38	45.0	45.0	45.0	45.0	45.0	55.3	59.5	59.9	52.6	46.0
39	45.0	45.0	45.0	45.0	45.0	49.4	60.6	61.4	55.4	45.3
40	45.0	45.0	45.0	45.0	45.0	48.9	61.4	63.5	54.1	45.0
A	75.3	80.6	79.3	76.9	78.5	85.5	81.8	81.1	75.9	73.0
D	83.2	89.0	88.6	86.6	87.8	91.5	87.1	86.7	81.3	78.7
OASPL	88.8	94.3	95.1	93.7	95.9	96.3	89.9	89.3	86.3	82.1
PNL	89.6	94.9	94.5	92.5	94.1	99.5	95.2	94.5	89.5	87.0
PNLT	89.6	94.9	94.5	92.5	94.1	99.5	95.2	94.5	91.1	90.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 45, 110 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-21.5	-17.5	-13.5	-9.5	-5.5	-1.5	0	2.5	6.5	9.5
17	79.7	78.6	82.3	85.2	88.1	86.3	78.8	73.1	68.3	68.4
18	78.9	80.3	81.5	85.5	87.2	83.5	80.1	67.8	73.2	71.0
19	79.2	81.7	82.1	87.1	87.0	78.4	66.1	63.5	67.9	68.4
20	75.7	81.2	83.1	86.0	84.6	68.8	70.4	75.8	64.4	67.5
21	74.2	82.8	84.0	85.9	82.6	73.3	80.9	71.3	64.0	63.1
22	74.3	81.6	82.1	84.4	77.5	75.8	80.5	79.1	64.2	61.3
23	73.8	80.2	82.4	82.9	72.5	83.8	83.6	70.0	67.9	59.9
24	71.0	76.4	79.0	78.1	67.6	81.6	77.1	68.3	67.1	63.1
25	64.7	71.1	72.4	72.7	68.1	70.8	76.7	71.2	62.2	62.1
26	59.8	68.0	70.2	68.0	65.5	72.5	76.3	68.7	62.9	64.0
27	52.6	63.9	66.8	66.6	61.0	70.6	72.4	70.0	65.6	58.8
28	51.2	60.0	59.8	59.2	55.9	69.0	70.7	68.4	62.1	60.2
29	50.0	56.1	57.6	57.8	53.6	68.5	69.6	68.2	61.7	59.2
30	50.0	52.9	53.4	56.8	54.8	65.9	67.9	66.5	60.4	57.7
31	50.0	50.2	51.9	53.4	52.9	66.2	68.0	65.6	58.8	55.3
32	50.0	50.0	50.0	52.4	52.1	65.7	66.3	65.3	64.6	62.2
33	50.0	50.0	50.0	50.7	50.6	63.4	65.6	64.2	57.4	54.5
34	50.0	50.0	50.0	50.3	50.0	63.6	65.9	62.6	54.6	53.4
35	50.0	50.0	50.0	50.0	50.0	60.0	63.2	61.1	54.8	53.5
36	50.0	50.0	50.0	50.0	50.0	57.9	60.0	59.0	50.9	50.0
37	50.0	50.0	50.0	50.0	50.0	54.6	56.1	55.9	50.0	50.0
38	50.0	50.0	50.0	50.0	50.0	52.3	53.3	54.1	50.0	50.0
39	50.0	50.0	50.0	50.0	50.0	50.0	52.3	55.7	50.0	50.0
40	50.0	50.0	50.0	50.0	50.0	50.0	50.6	55.4	50.0	50.0
A	67.5	75.3	76.9	77.7	72.7	79.3	80.7	76.6	70.8	68.3
D	77.9	83.9	85.4	87.1	83.8	86.0	86.5	82.6	76.1	73.8
OASPL	85.1	89.5	91.1	93.5	93.2	91.8	90.1	85.5	81.5	79.0
PNL	85.4	90.5	92.1	93.3	90.9	94.2	94.8	90.3	85.0	82.9
PNLT	85.4	90.5	92.1	93.3	90.9	94.2	94.8	90.3	87.2	85.4

LOWER LIMIT OF ANALYSIS SYSTEM= 50.0

TABLE E-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 46, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-12.5	-12.0	-9.5	-7.0	-4.5	-2.0	0	.5	3.0	5.0
17	82.6	88.7	88.4	89.6	91.2	92.6	90.9	77.6	76.0	72.5	68.8
18	83.5	88.8	88.8	89.2	90.8	91.5	88.1	79.3	76.8	65.7	67.9
19	83.1	89.1	89.2	89.1	91.4	91.2	84.8	64.2	63.1	62.7	64.2
20	81.4	90.5	90.9	88.6	90.4	89.1	77.3	75.9	77.5	68.1	63.8
21	80.8	91.6	92.2	89.1	90.1	87.5	74.8	82.2	81.3	67.1	61.3
22	79.0	90.8	91.3	87.5	87.9	81.4	79.7	82.7	83.3	72.4	63.6
23	73.5	89.9	89.8	86.1	85.8	75.0	85.3	82.1	77.6	72.8	68.0
24	71.0	87.7	87.7	83.0	78.4	78.2	84.5	75.6	73.9	67.9	68.0
25	68.1	84.3	83.9	76.6	70.4	78.4	79.2	78.2	77.8	70.1	65.2
26	65.5	82.2	81.5	70.6	72.7	77.9	76.6	75.1	73.0	70.9	64.0
27	61.3	80.3	78.5	64.6	74.3	73.9	76.6	75.2	74.5	69.9	68.7
28	60.0	77.3	75.4	65.0	72.8	65.3	73.4	71.8	71.1	68.9	65.6
29	60.0	73.1	71.3	63.7	66.4	66.4	72.1	71.2	71.1	71.2	66.2
30	60.0	70.9	69.2	61.6	61.9	60.8	69.8	70.1	69.8	68.6	66.2
31	60.0	67.7	66.5	60.0	61.7	60.2	67.4	69.5	68.6	67.3	65.3
32	60.0	63.2	62.7	60.0	60.0	60.5	66.6	69.4	68.4	69.5	69.2
33	60.0	60.4	60.3	60.0	60.0	60.0	64.7	67.9	67.3	64.6	62.7
34	60.0	60.0	60.0	60.0	60.0	60.0	64.5	68.1	67.4	62.0	62.0
35	60.0	60.0	60.0	60.0	60.0	60.0	62.7	65.4	65.1	61.4	60.9
36	60.0	60.0	60.0	60.0	60.0	60.0	60.9	63.8	63.8	60.1	60.0
37	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.6	60.5	60.0	60.0
38	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
39	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
40	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.8	60.0	60.0
A	72.1	87.2	86.8	81.7	81.6	80.2	83.2	81.7	81.1	77.8	75.3
D	81.6	94.3	94.0	89.8	90.5	89.0	88.9	87.5	86.7	82.6	80.2
OASPL	89.9	98.8	98.7	96.5	97.9	97.6	95.5	91.3	89.9	83.5	80.9
PNL	91.4	101.4	101.2	97.6	98.5	97.3	97.7	95.7	94.9	91.1	89.5
PNLT	91.4	101.4	101.2	97.6	98.5	98.4	97.7	95.7	94.9	92.3	91.3

LOWER LIMIT OF ANALYSIS SYSTEM= 60.0

TABLE E-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 212

OCTOBER 6, 1976

EVENT 47, 114 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.5	-14.5	-11.5	-8.5	-5.5	-2.5	0	.5	3.5	5.0
17	84.2	83.5	85.9	86.9	90.4	91.8	78.2	77.3	74.2	71.9
18	82.8	84.9	87.1	86.7	90.4	88.7	79.3	76.5	74.9	72.7
19	82.2	85.7	87.3	86.5	89.6	86.2	65.8	64.7	67.6	68.5
20	82.3	86.3	87.6	85.0	88.4	81.6	75.3	77.3	65.3	67.9
21	82.1	86.2	87.5	85.2	88.0	78.7	81.6	79.8	64.4	65.1
22	79.6	86.4	85.7	84.1	84.2	80.4	81.9	81.8	71.8	64.7
23	76.5	85.9	83.3	82.1	79.5	84.7	79.3	75.5	72.6	67.5
24	69.5	82.9	78.2	75.4	77.7	85.2	72.4	71.6	70.5	67.0
25	62.7	77.5	72.5	66.7	78.6	81.6	76.3	75.3	64.6	64.7
26	59.5	73.7	70.5	67.7	75.9	77.0	73.6	69.9	69.6	60.9
27	58.2	72.4	67.8	64.0	73.0	78.0	73.2	70.5	68.0	66.1
28	54.0	67.9	61.8	60.5	68.7	75.4	71.5	70.8	66.7	63.7
29	47.7	63.4	54.9	57.2	61.9	73.1	70.9	69.8	66.8	62.6
30	47.0	57.6	53.8	52.8	58.4	69.1	69.9	68.9	65.1	60.9
31	45.3	53.4	50.1	48.5	56.4	69.0	70.1	69.2	63.7	60.6
32	45.0	47.6	46.3	49.6	54.9	67.0	70.3	69.2	70.1	66.3
33	45.0	45.9	45.2	47.1	52.4	64.4	68.6	67.7	62.5	58.4
34	45.0	45.0	45.0	46.8	51.2	63.8	66.6	65.7	60.7	56.3
35	45.0	45.0	45.0	45.0	48.0	60.4	64.5	63.7	59.9	58.2
36	45.0	45.0	45.0	45.0	45.5	58.2	63.2	62.0	56.2	53.3
37	45.0	45.0	45.0	45.0	45.0	54.7	60.6	59.7	53.7	50.2
38	45.0	45.0	45.0	45.0	45.0	51.4	57.6	57.2	51.6	47.0
39	45.0	45.0	45.0	45.0	45.0	48.1	58.4	58.8	53.7	46.9
40	45.0	45.0	45.0	45.0	45.0	46.7	58.6	60.2	50.5	45.1
A	72.2	81.1	79.1	76.8	80.2	83.3	80.9	79.7	76.1	72.0
D	82.6	89.1	88.4	86.5	89.2	89.9	86.9	85.9	81.4	77.6
OASPL	89.9	94.3	94.7	93.7	96.7	96.8	90.6	89.4	84.0	81.6
PNL	88.3	95.0	93.8	92.0	95.5	98.0	94.4	93.6	89.8	86.1
PNLT	88.3	95.0	93.8	92.0	95.5	98.0	94.4	93.6	92.1	88.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 1, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.4	74.5	68.6	72.1	1.8
15	81.9	84.0	77.6	81.5	1.9
16	78.6	80.7	74.4	78.3	1.9
17	79.0	81.6	74.1	78.5	2.2
18	77.2	79.9	72.4	76.8	2.2
19	75.3	78.2	70.9	74.9	1.9
20	75.3	78.4	67.6	74.5	2.8
21	73.9	77.6	66.4	73.2	2.7
22	76.6	78.4	73.0	76.3	1.5
23	75.5	77.8	72.4	75.3	1.6
24	75.9	78.8	73.5	75.7	1.3
25	76.0	80.5	72.7	75.5	1.9
26	74.7	78.9	70.7	74.2	2.1
27	72.7	77.2	69.0	72.1	2.2
28	68.3	72.2	64.6	67.8	2.1
29	62.2	64.9	58.9	61.9	1.7
30	58.0	61.0	53.9	57.6	2.1
31	58.4	60.9	53.1	57.9	2.3
32	58.4	61.2	53.0	57.8	2.4
33	57.4	60.7	52.3	56.8	2.3
34	55.2	58.6	49.7	54.6	2.4
35	52.7	54.8	48.1	52.3	1.9
36	51.7	54.0	47.5	51.4	1.6
37	47.5	49.7	45.1	47.3	1.1
38	45.5	47.0	45.0	45.5	.5
39	45.4	46.4	45.0	45.4	.4
40	46.0	47.9	45.1	45.9	.8
DBA	76.9	80.4	74.1	76.6	1.7
DBD	83.1	86.0	80.8	82.9	1.3
OASPL	88.4	89.4	87.3	88.4	.6
PNL	90.0	92.9	87.1	89.8	1.4
PNLT	90.2	92.9	87.1	89.9	1.5

270°
(Microphone Location Relative to Helicopter)

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 2, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.4	76.8	71.0	75.2	1.5
15	84.7	86.1	79.2	84.4	1.8
16	81.5	83.1	75.2	81.1	2.1
17	86.0	88.4	78.7	85.6	2.1
18	83.2	85.2	74.2	82.8	2.4
19	79.3	81.4	69.5	78.5	3.2
20	80.4	84.4	75.2	79.9	2.0
21	78.1	80.3	72.0	77.8	2.0
22	79.4	81.3	76.2	79.3	1.1
23	78.0	80.9	76.0	77.8	1.3
24	79.1	82.2	76.9	78.8	1.6
25	79.3	81.8	75.8	79.0	1.7
26	79.2	82.8	74.0	78.7	2.1
27	78.0	82.9	72.3	77.3	2.5
28	74.7	80.1	66.8	73.7	3.0
29	69.5	72.5	59.1	68.4	3.5
30	65.0	67.7	56.5	64.4	2.5
31	65.8	68.1	57.2	65.3	2.4
32	65.8	68.5	56.9	65.2	2.8
33	65.0	67.7	57.8	64.5	2.4
34	61.3	64.6	54.3	60.8	2.4
35	58.3	60.4	52.8	58.0	1.9
36	56.0	58.0	51.6	55.7	1.6
37	51.9	54.0	48.0	51.7	1.5
38	48.7	51.1	46.8	48.6	1.1
39	47.0	48.7	45.5	46.9	.7
40	46.4	47.8	45.1	46.4	.7
DBA	81.7	85.3	77.2	81.3	1.9
DBD	87.3	89.9	84.5	87.1	1.4
OASPL	91.8	93.1	90.6	91.8	.7
PNL	94.7	97.3	91.3	94.5	1.4
PNLT	94.7	97.3	91.3	94.5	1.4

225°
(Microphone Location Relative to Helicopter)

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 3, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.2	76.4	74.2	75.2	.5
15	84.1	85.4	82.9	84.0	.6
16	81.3	82.8	80.3	81.2	.7
17	85.7	87.0	84.7	85.7	.6
18	83.0	85.0	81.5	82.9	.8
19	79.0	82.1	74.9	78.7	1.7
20	81.9	83.3	80.1	81.8	.9
21	78.6	79.8	76.7	78.5	.9
22	78.9	80.8	73.8	78.6	1.8
23	75.9	79.8	71.4	75.6	1.7
24	76.6	80.6	70.8	76.1	2.1
25	76.0	80.2	69.7	75.4	2.5
26	74.2	78.2	67.9	73.5	2.5
27	68.9	72.6	63.0	68.4	2.3
28	65.9	71.3	60.7	65.1	2.4
29	64.2	68.8	60.3	63.5	2.4
30	58.2	64.8	52.9	56.6	3.3
31	56.0	62.0	50.5	54.7	3.1
32	55.4	61.8	50.6	54.0	3.2
33	54.4	60.2	49.9	53.3	2.9
34	52.4	57.0	47.9	51.5	2.7
35	50.5	54.9	46.0	49.9	2.3
36	48.5	52.5	45.0	48.1	1.8
37	46.3	50.3	45.0	46.1	1.4
38	45.2	46.3	45.0	45.2	.3
39	45.2	46.0	45.0	45.2	.3
40	45.0	45.0	45.0	45.0	.0
DBA	76.9	80.0	73.2	76.6	1.6
DBD	84.0	86.9	81.7	83.8	1.2
OASPL	90.7	92.3	89.8	90.7	.6
PNL	90.7	93.8	88.4	90.4	1.3
PNLT	90.9	93.8	88.4	90.7	1.4

180°
(Microphone Location
Relative to Helicopter

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 4, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.2	76.6	73.9	75.2	.7
15	84.5	85.5	83.5	84.4	.5
16	81.6	82.8	80.6	81.6	.5
17	84.1	84.8	83.3	84.1	.4
18	81.5	82.5	79.9	81.5	.7
19	77.4	80.1	70.2	76.9	2.2
20	76.3	77.7	72.7	76.1	1.2
21	73.9	76.0	71.7	73.8	1.1
22	74.6	75.7	72.6	74.5	.8
23	73.9	75.8	70.9	73.7	1.3
24	74.0	76.7	71.5	73.8	1.4
25	74.3	77.1	71.7	74.1	1.4
26	73.5	76.2	70.6	73.3	1.5
27	71.7	74.1	68.3	71.3	1.7
28	68.6	71.6	63.8	68.1	2.1
29	64.9	67.7	59.8	64.5	2.1
30	59.6	63.1	55.1	59.2	1.9
31	58.0	61.6	53.1	57.6	2.0
32	58.0	61.3	52.9	57.5	2.1
33	58.0	60.7	54.8	57.7	1.4
34	54.6	57.6	51.3	54.3	1.7
35	52.0	54.7	48.9	51.7	1.8
36	50.2	53.0	47.4	49.9	1.7
37	47.7	50.1	45.9	47.5	1.4
38	46.3	48.2	45.2	46.2	.8
39	46.7	48.1	45.6	46.7	.6
40	46.2	48.0	45.4	46.2	.7
DBA	76.1	78.3	73.4	75.9	1.3
DBD	82.4	83.9	80.9	82.3	.8
OASPL	89.3	90.0	88.6	89.2	.3
PNL	89.4	91.1	87.5	89.3	1.0
PNLT	89.5	91.1	87.5	89.4	.9

135°
(Microphone Location Relative to Helicopter)

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 5, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.8	76.5	75.1	75.8	.3
15	84.4	85.4	82.4	84.3	.7
16	81.5	82.8	78.8	81.3	1.0
17	81.4	83.1	78.9	81.3	1.0
18	79.6	81.7	77.7	79.5	1.0
19	78.0	81.3	75.7	77.8	1.4
20	73.9	77.2	70.2	73.5	1.8
21	71.6	75.3	68.4	71.2	1.8
22	73.1	74.7	70.4	73.0	1.0
23	72.4	74.8	69.4	72.2	1.3
24	73.6	75.9	70.5	73.4	1.2
25	72.1	74.3	70.0	71.9	1.2
26	70.7	72.4	68.1	70.6	1.1
27	68.9	71.0	66.9	68.7	1.2
28	66.4	68.7	63.9	66.3	1.0
29	64.1	66.0	61.7	64.0	1.2
30	58.8	61.5	56.6	58.6	1.3
31	55.7	58.6	53.0	55.4	1.4
32	55.5	57.9	53.2	55.3	1.4
33	55.7	57.4	52.8	55.5	1.2
34	54.2	56.7	50.8	54.0	1.4
35	51.3	52.9	49.0	51.1	1.2
36	49.4	51.0	47.2	49.3	1.0
37	46.4	47.9	45.0	46.3	.7
38	45.4	46.4	45.0	45.3	.4
39	45.8	46.6	45.0	45.7	.5
40	46.5	47.8	45.2	46.4	.7
DBA	74.0	75.6	72.8	74.0	.8
DBD	80.6	81.8	79.2	80.5	.7
OASPL	88.4	89.5	87.1	88.3	.6
PNL	87.6	89.0	86.2	87.5	.7
PNLT	87.6	89.0	86.2	87.5	.7

90°
(Microphone Locati
Relative to Helico

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 6, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.9	77.8	76.3	76.9	.4
15	84.9	86.1	83.6	84.9	.7
16	81.6	83.0	79.5	81.5	.9
17	82.4	83.6	80.7	82.3	.9
18	80.9	82.6	78.8	80.8	.9
19	78.9	80.5	76.4	78.8	1.1
20	77.0	78.5	74.5	76.8	1.0
21	74.7	76.5	71.7	74.6	1.3
22	73.7	76.1	69.5	73.5	1.5
23	73.3	75.8	69.0	73.1	1.6
24	72.8	75.6	69.3	72.5	1.6
25	71.9	74.5	66.8	71.6	1.8
26	71.6	74.9	66.9	71.2	1.9
27	70.1	73.8	65.4	69.7	1.9
28	67.6	71.1	63.8	67.3	1.5
29	64.2	67.9	61.2	63.9	1.7
30	60.2	64.0	56.7	59.9	1.6
31	60.2	63.2	56.0	59.8	1.9
32	61.0	64.2	56.2	60.5	2.2
33	60.0	63.1	55.7	59.5	2.0
34	57.5	60.0	53.7	57.1	1.8
35	55.6	58.2	50.8	55.2	2.1
36	55.5	58.8	49.5	54.9	2.4
37	52.0	54.7	47.9	51.6	2.0
38	50.8	53.8	47.2	50.5	1.8
39	55.3	58.4	51.4	55.0	1.6
40	61.3	64.7	57.2	60.9	1.7
DBA	75.2	77.4	72.0	75.0	1.3
DBD	81.9	83.6	79.5	81.8	1.1
OASPL	89.3	90.5	88.2	89.2	.7
PNL	89.6	91.9	86.9	89.4	1.3
PNLT	89.6	91.9	86.9	89.4	1.3

45°
(Microphone Location Relative to Helicopter)

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 1, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.8	78.1	74.6	76.7	1.0
15	84.6	86.2	82.9	84.5	.9
16	81.7	84.1	79.2	81.5	1.4
17	80.8	84.3	76.6	80.3	2.1
18	77.7	81.5	72.3	77.0	2.6
19	77.2	82.4	73.5	76.6	2.3
20	79.4	83.2	74.5	78.9	2.0
21	81.2	84.9	77.2	80.8	2.1
22	82.6	86.4	77.8	81.8	2.5
23	84.4	85.4	78.3	83.6	2.6
24	84.5	86.2	78.7	83.9	2.5
25	83.3	85.1	76.2	82.9	2.1
26	82.5	85.4	74.5	81.9	2.6
27	79.9	83.1	72.9	79.3	2.5
28	77.3	80.5	71.5	76.7	2.3
29	74.1	76.2	69.5	73.8	1.6
30	71.1	72.9	68.0	70.8	1.6
31	69.3	71.2	66.3	69.0	1.5
32	66.7	67.7	65.0	66.6	.9
33	65.7	65.5	65.0	65.5	1.3
34	66.3	65.0	65.0	65.6	1.9
35	65.2	65.0	65.0	65.2	.5
36	65.0	65.0	65.0	65.0	.2
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	85.0	86.6	79.7	84.7	1.8
DBD	90.3	92.3	85.0	89.9	1.9
OASPL	93.2	94.9	90.7	93.1	1.1
PNL	98.7	102.1	94.6	98.5	1.5
PNLT	98.9	103.5	94.6	98.5	1.7

90°
Microphone Location
Relative to Helicopte

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 2, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	77.1	78.7	75.9	77.0	.8
15	84.4	85.4	83.2	84.3	.6
16	82.1	83.4	80.4	82.1	.6
17	82.1	83.3	80.3	82.0	.7
18	78.5	80.3	76.3	78.4	1.0
19	75.6	78.4	70.2	75.2	2.1
20	76.9	79.9	73.5	76.6	1.6
21	75.6	79.7	72.8	75.3	1.6
22	74.7	79.3	70.3	74.3	1.9
23	74.7	77.9	71.5	74.4	1.6
24	75.1	79.3	71.7	74.6	2.1
25	75.2	78.4	70.8	74.6	2.2
26	75.0	78.5	70.2	74.3	2.5
27	73.3	77.9	67.8	72.4	2.8
28	71.4	76.0	65.7	70.6	2.7
29	68.6	72.4	65.0	67.9	2.4
30	66.8	70.3	65.0	66.4	1.7
31	66.1	70.4	65.0	65.8	1.5
32	65.6	69.6	65.0	65.4	1.2
33	65.2	66.8	65.0	65.1	.5
34	65.0	65.5	65.0	65.0	.1
35	65.0	65.0	65.0	65.0	.0
36	65.0	65.0	65.0	65.0	.0
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	78.5	83.2	74.4	77.8	2.4
DBD	84.1	87.4	81.5	83.8	1.6
OASPL	90.0	92.0	88.9	90.0	.7
PNL	94.0	96.3	92.8	93.9	.9
PNLT	94.0	96.3	92.8	93.9	.9

45°
(Microphone Location Relative to Helicopter)

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 3, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.1	77.2	74.9	76.1	.6
15	83.7	84.6	82.7	83.7	.5
16	82.1	83.5	80.5	82.0	.8
17	83.0	84.0	81.8	82.9	.6
18	80.1	81.7	78.1	80.0	1.0
19	78.1	80.4	75.0	77.9	1.4
20	77.8	80.0	75.4	77.7	1.2
21	76.5	78.4	74.1	76.4	1.1
22	76.7	79.6	73.4	76.5	1.5
23	78.4	82.6	73.9	77.9	2.2
24	79.4	83.1	72.9	78.7	2.6
25	79.1	83.2	74.0	78.5	2.4
26	78.1	81.6	73.7	77.6	2.1
27	75.7	79.0	71.7	75.3	1.9
28	73.8	77.3	70.9	73.5	1.7
29	70.9	73.7	67.3	70.3	2.2
30	67.6	71.5	63.1	66.9	2.4
31	65.0	69.4	60.2	64.2	2.8
32	61.6	65.7	56.3	60.6	3.0
33	59.1	62.6	55.1	58.5	2.4
34	58.6	62.2	55.0	58.0	2.2
35	56.6	59.0	55.0	56.4	1.3
36	55.8	58.4	55.0	55.8	.9
37	55.1	55.9	55.0	55.1	.2
38	55.0	55.0	55.0	55.0	.0
39	55.6	57.0	55.0	55.6	.7
40	60.9	63.4	56.7	60.5	1.9
DBA	80.7	84.2	76.6	80.3	1.7
DBD	86.0	89.6	82.6	85.6	1.6
OASPL	90.2	92.3	88.9	90.1	.9
PNL	93.8	96.8	90.6	93.6	1.5
PNLT	94.1	96.8	90.6	93.9	1.5

0°
(Microphone Location Relative to Helicopter

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 4, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.5	76.7	74.4	75.4	.6
15	83.9	84.7	83.4	83.9	.3
16	82.0	83.2	80.8	82.0	.7
17	82.4	83.0	81.3	82.4	.4
18	79.8	81.0	77.8	79.7	.8
19	77.7	79.4	75.2	77.5	1.2
20	75.6	78.4	71.1	75.3	1.6
21	74.5	78.1	68.3	73.8	2.6
22	75.0	79.4	70.4	74.3	2.6
23	75.7	78.9	69.9	74.9	2.8
24	75.5	79.9	69.5	74.6	2.8
25	74.8	77.9	70.2	74.4	2.0
26	73.7	78.4	68.7	73.1	2.4
27	72.4	76.8	65.7	71.3	3.1
28	71.1	75.4	64.2	70.1	3.2
29	68.9	73.9	62.9	67.8	3.2
30	65.5	71.8	58.8	64.0	3.5
31	62.7	69.2	56.0	61.2	3.5
32	60.6	66.8	53.8	59.0	3.8
33	59.1	64.9	51.6	57.4	3.8
34	57.8	65.3	50.1	55.6	4.2
35	55.5	62.7	48.0	53.3	4.2
36	53.6	59.0	47.2	52.0	3.7
37	50.4	54.5	45.3	49.4	3.0
38	49.9	57.4	45.0	48.3	3.2
39	51.1	54.1	46.9	50.6	2.1
40	56.6	58.8	52.5	56.2	1.8
DBA	77.3	80.0	72.3	76.7	2.3
DBD	82.6	84.7	78.6	82.2	1.9
OASPL	88.7	89.7	87.1	88.6	.8
PNL	90.7	93.6	86.4	90.2	2.2
PNLT	90.9	94.1	86.4	90.3	2.3

315°
(Microphone Location
Relative to Helicopte

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 5, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.7	76.3	75.1	75.7	.3
15	83.2	83.8	82.4	83.2	.4
16	81.7	82.9	80.6	81.7	.5
17	81.2	81.9	79.8	81.2	.5
18	78.7	80.2	76.9	78.7	.7
19	77.2	78.6	74.0	77.1	1.2
20	76.2	78.2	73.1	76.0	1.2
21	74.4	78.9	71.3	74.0	1.8
22	75.0	77.4	71.2	74.7	1.5
23	74.8	77.1	71.1	74.4	1.8
24	76.1	79.0	70.4	75.4	2.5
25	75.8	79.8	70.6	75.0	2.7
26	75.0	78.9	68.4	73.9	3.1
27	72.6	77.6	65.1	71.4	3.4
28	70.8	76.1	63.3	69.6	3.3
29	68.6	74.9	61.1	67.1	3.6
30	65.9	72.7	57.9	64.4	3.5
31	62.9	68.6	56.4	61.8	3.1
32	60.6	66.6	53.9	59.3	3.3
33	59.0	65.2	52.8	57.6	3.3
34	56.5	62.0	50.7	55.3	3.3
35	53.5	57.5	48.9	52.7	2.6
36	52.8	58.1	48.0	51.8	2.8
37	49.5	53.8	45.8	48.9	2.3
38	48.0	52.1	45.0	47.5	2.0
39	47.6	49.8	45.0	47.3	1.5
40	51.2	54.9	47.6	50.7	2.0
DBA	77.9	82.9	72.6	77.0	2.8
DBD	83.0	86.7	78.7	82.5	2.1
OASPL	88.5	90.0	87.0	88.4	.7
PNL	90.8	94.5	86.4	90.2	2.2
PNLT	91.0	95.4	86.4	90.3	2.4

270°
(Microphone Location
Relative to Helicopter

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 6, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.8	76.8	74.0	75.7	.7
15	82.4	83.5	80.7	82.4	.7
16	81.2	82.5	80.2	81.2	.6
17	83.0	84.4	81.9	82.9	.7
18	79.9	81.4	78.6	79.9	.7
19	77.5	79.9	74.6	77.4	1.2
20	79.4	81.6	77.2	79.1	1.4
21	78.1	81.5	74.6	77.7	1.9
22	79.1	83.7	75.3	78.6	2.1
23	79.5	84.8	74.5	78.4	2.9
24	80.1	86.1	74.9	78.8	3.1
25	79.3	85.5	73.0	77.6	3.6
26	78.4	85.2	72.7	76.5	3.7
27	76.5	83.4	71.6	74.7	3.6
28	74.8	81.7	67.6	72.8	3.8
29	72.1	78.8	65.2	70.4	3.6
30	69.0	74.9	61.5	67.9	3.1
31	67.3	73.5	59.8	66.0	3.2
32	65.6	72.6	58.4	63.7	3.7
33	65.1	72.5	56.7	62.4	4.3
34	62.8	70.4	53.5	59.9	4.6
35	58.9	66.4	51.6	56.7	3.9
36	57.2	64.3	50.6	55.2	3.8
37	53.7	60.7	47.8	51.9	3.6
38	50.8	56.5	46.2	49.6	2.9
39	48.3	52.4	45.0	47.7	2.1
40	48.2	51.5	46.1	47.9	1.5
DBA	82.0	88.6	76.7	80.3	3.4
DBD	86.9	92.8	82.5	85.7	2.9
OASPL	90.4	94.0	88.4	90.1	1.6
PNL	94.4	100.4	89.9	93.3	2.9
PNLT	94.4	100.4	89.9	93.3	2.9

225°
(Microphone Location Relative to Helicopter)

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 8, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	77.4	79.9	74.1	77.2	1.4
15	86.3	88.6	83.9	86.2	1.0
16	85.1	86.9	82.7	85.0	1.0
17	87.1	89.1	85.3	87.0	1.0
18	84.3	88.1	81.4	84.0	1.6
19	83.6	88.0	79.1	83.2	2.0
20	85.5	88.5	79.7	85.0	2.2
21	87.3	90.3	81.6	86.8	2.3
22	87.8	90.6	81.9	87.4	2.1
23	88.2	91.0	83.0	87.8	2.0
24	88.7	91.9	83.1	88.3	2.1
25	88.1	91.2	82.0	87.6	2.1
26	88.2	92.2	81.7	87.8	2.0
27	85.9	90.0	80.5	85.3	2.2
28	84.6	88.1	80.0	84.3	1.8
29	82.4	85.6	79.0	82.0	1.8
30	79.0	81.6	75.3	78.7	1.7
31	76.4	78.5	74.2	76.2	1.2
32	72.7	74.8	67.8	72.6	1.3
33	70.9	73.3	67.7	70.7	1.3
34	70.6	74.4	67.2	70.3	1.7
35	67.6	70.4	64.3	67.4	1.6
36	65.0	66.5	61.9	64.8	1.4
37	61.2	63.9	58.5	61.0	1.3
38	58.7	60.7	56.4	58.6	1.2
39	55.9	57.5	55.0	55.8	.7
40	55.2	55.9	55.0	55.2	.2
DBA	91.1	94.0	87.4	90.9	1.4
DBD	95.6	98.3	92.7	95.4	1.4
OASPL	97.8	100.5	95.1	97.6	1.3
PNL	103.4	106.3	99.8	103.1	1.4
PNLT	103.5	106.6	99.8	103.2	1.4

135°
(Microphone Location
Relative to Helicopte

TABLE E-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 15, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.7	78.5	75.1	76.6	.8
15	84.6	85.8	82.8	84.5	.9
16	83.4	84.9	81.4	83.3	.9
17	87.7	89.1	86.5	87.6	.7
18	83.6	86.2	81.3	83.4	1.2
19	80.6	84.1	76.6	80.0	2.1
20	86.5	88.0	83.8	86.4	1.1
21	84.2	87.4	82.3	84.0	1.2
22	86.7	89.0	83.3	86.5	1.2
23	86.5	89.4	81.9	86.2	1.6
24	87.0	90.5	83.0	86.7	1.8
25	86.2	90.8	81.4	85.8	1.9
26	85.2	89.8	81.5	84.7	2.0
27	82.4	84.9	77.5	82.1	1.9
28	80.5	83.0	75.4	80.2	1.8
29	78.8	81.7	74.1	78.4	2.2
30	75.6	79.2	71.0	75.2	2.0
31	72.1	74.7	68.5	71.8	1.5
32	68.2	71.3	64.1	67.9	1.7
33	66.8	69.8	62.0	66.6	1.6
34	66.6	69.5	61.0	66.2	1.9
35	64.1	66.4	59.6	63.9	1.5
36	62.1	64.9	58.4	61.9	1.4
37	58.9	61.5	55.7	58.7	1.4
38	56.9	59.0	55.0	56.7	1.1
39	55.1	55.5	55.0	55.1	.2
40	55.0	55.0	55.0	55.0	.0
DBA	88.1	91.1	84.6	87.8	1.6
DBD	93.1	96.0	89.6	92.8	1.5
OASPL	96.0	97.9	94.1	95.9	1.0
PNL	100.7	103.1	97.8	100.5	1.3
PNLT	100.7	103.1	97.8	100.5	1.3

180°
(Microphone Location Relative to Helicopter)

TABLE E-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 20, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

90°
(Microphone Location
Relative to Helicopter

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	71.2	73.1	67.4	71.0	1.3
15	75.7	78.5	71.5	75.4	1.7
16	69.8	73.3	64.6	69.0	2.8
17	73.6	76.4	67.9	73.1	2.2
18	75.2	77.4	70.0	74.9	1.8
19	73.7	76.2	68.4	73.4	1.9
20	68.8	71.7	65.1	68.5	1.9
21	59.6	62.5	56.8	59.4	1.5
22	66.3	68.1	63.4	66.1	1.4
23	73.5	75.3	70.2	73.2	1.5
24	75.6	77.7	71.9	75.3	1.7
25	73.3	75.6	69.3	73.0	1.7
26	68.5	70.4	63.6	68.3	1.4
27	74.2	76.2	69.2	74.1	1.4
28	68.7	70.8	63.1	68.5	1.5
29	70.2	72.6	65.7	70.0	1.3
30	67.1	69.7	63.1	67.0	1.3
31	64.3	66.4	60.6	64.2	1.2
32	62.1	64.4	59.9	62.0	1.1
33	61.0	63.8	58.8	60.8	1.2
34	57.3	59.5	54.0	57.1	1.4
35	54.2	56.8	51.2	54.0	1.3
36	51.5	53.8	48.2	51.3	1.2
37	46.6	48.3	45.1	46.6	.7
38	45.1	46.0	45.0	45.1	.2
39	45.1	46.1	45.0	45.1	.3
40	45.0	45.2	45.0	45.0	.1
DBA	77.2	79.1	73.2	77.0	1.2
DBD	81.7	83.5	78.3	81.6	1.1
OASPL	84.3	85.8	82.7	84.2	.8
PNL	88.9	90.5	85.5	88.8	1.1
PNLT	89.0	90.5	85.5	88.8	1.0

TABLE E-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 20, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

270°
(Microphone Location Relative to Helicopter

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.8	78.0	71.1	75.5	2.0
15	80.4	82.4	75.3	80.0	1.9
16	72.0	76.5	67.1	71.5	2.2
17	79.5	80.7	77.9	79.4	.7
18	74.9	76.0	73.4	74.8	.8
19	64.4	66.1	61.2	64.3	1.1
20	64.5	66.1	58.2	64.2	1.8
21	64.1	65.5	61.5	64.0	1.0
22	74.9	77.0	72.4	74.7	1.2
23	77.2	78.8	74.9	77.1	1.0
24	75.8	77.5	73.4	75.7	1.1
25	68.0	70.2	64.2	67.8	1.5
26	76.4	78.5	73.2	76.2	1.3
27	72.5	74.6	68.6	72.3	1.6
28	74.5	76.5	69.8	74.2	1.8
29	74.4	76.6	68.0	73.9	2.4
30	70.8	72.8	64.1	70.3	2.3
31	69.1	71.1	62.5	68.7	2.3
32	68.4	70.6	62.7	68.0	2.2
33	67.0	69.1	62.5	66.7	1.8
34	63.2	66.5	57.8	62.8	2.2
35	60.3	62.8	55.9	60.0	1.7
36	57.4	59.8	53.3	57.1	1.5
37	52.5	54.8	49.2	52.3	1.4
38	49.1	50.4	47.2	49.1	.8
39	49.1	50.5	47.9	49.0	.6
40	48.9	50.2	47.2	48.9	.7
DBA	80.5	82.5	76.0	80.2	1.7
DBD	84.4	85.9	80.6	84.2	1.4
OASPL	87.0	88.4	83.9	86.8	1.2
PNL	92.0	93.5	88.6	91.9	1.3
PNLT	92.2	93.5	88.6	92.0	1.2

TABLE E-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 212

OCTOBER 6, 1976

EVENT 20, 180 DEGREES, CENTERLINE MICROPHONE (SOFT SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.7	75.2	68.4	72.4	1.8
15	73.3	76.7	68.2	72.7	2.3
16	77.1	79.9	72.3	76.5	2.4
17	77.5	79.3	75.2	77.3	1.2
18	72.6	75.2	69.8	72.3	1.5
19	64.7	67.5	59.7	64.3	1.9
20	77.6	80.1	74.9	77.4	1.3
21	79.6	82.0	74.1	79.2	2.1
22	83.9	86.0	80.3	83.6	1.6
23	79.6	81.3	74.3	79.4	1.4
24	78.2	79.9	72.8	77.9	1.6
25	83.3	85.7	77.8	83.0	1.7
26	79.9	81.6	73.1	79.4	2.3
27	82.1	84.0	75.7	81.7	2.2
28	80.5	82.5	72.3	79.9	2.6
29	77.6	79.8	69.9	77.0	2.6
30	76.5	78.5	69.4	76.0	2.5
31	74.0	76.7	66.5	73.4	2.7
32	71.5	73.6	66.6	71.1	1.8
33	69.5	71.6	66.4	69.3	1.4
34	66.6	68.2	62.8	66.3	1.6
35	62.6	64.6	59.8	62.4	1.3
36	60.0	61.6	58.5	59.9	.9
37	55.4	57.1	53.8	55.4	.8
38	54.6	55.7	53.3	54.6	.6
39	56.0	56.9	54.4	55.9	.5
40	57.0	57.9	55.7	57.0	.5
DBA	86.0	87.9	79.8	85.6	2.1
DBD	90.2	91.8	85.0	90.0	1.8
OASPL	91.3	92.7	86.3	91.1	1.6
PNL	97.6	98.9	92.5	97.4	1.7
PNLT	97.6	98.9	92.5	97.4	1.7

(Helicopter Located Directly Overhead)

TABLE E-VIII

Helicopter Noise Level Data

Bell 212 October 6, 1976

Max RMS Noise Level - dBA re 20 uPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	MICROPHONE OFFSET TO THE WEST 75M	MICROPHONE OFFSET TO THE EAST 75M	MICROPHONE OFFSET TO THE EAST 150M
5Ft. HOVER 0°	1	80.3	85.8	—	—
	10	— (290°)		94.8	86.5
5Ft. HOVER 45°	2	84.5	91.8	—	—
	11	— (225°)		89.8	83.0
5Ft. HOVER 90°	3	79.0	88.8	—	—
	12	— (180°)		88.8	84.0
5Ft. HOVER 135°	4	76.5	86.5	89.3	84.3
	13	— (135°)		92.0	83.8
5Ft HOVER 180°	5	75.3	87.3	88.5	82.3
	14	— (90°)		—	85.5
5Ft HOVER 225°	6	77.3	84.3	94.3	82.5
		(45°)			
5Ft HOVER 270°	7	78.5	82.8	94.8	85.0
		(0°)			
5Ft. HOVER 315°		—	—	—	—
		(315°)			
500Ft HOVER 180°	20	78.8	86.3*	87.3*	82.3
		(90°)			(270°)
500Ft HOVER 90°	21	84.3	85.8*	86.5*	82.0
		(180°)			(0°)

* Microphone at centerline

TABLE E-VIII

Helicopter Noise Level Data

BELL 212

OCTOBER 6, 1976

max RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	MICROPHONE OFFSET TO THE WEST CENTER LINE	MICROPHONE OFFSET TO THE EAST CENTER LINE	MICROPHONE OFFSET TO THE EAST 150M
3° GLIDE SLOPE	41	81.3	86.5	84.9	78.0
	42	77.8	81.8	82.3	81.3
	43	77.8	83.0	83.9	81.0
6° GLIDE SLOPE	22	79.8	84.3	84.0	———
	23	78.5	85.0	84.0	82.0
	24	81.0	84.8	84.5	80.0
9° GLIDE SLOPE	25	83.3	88.0	86.5	79.0
	26	84.5	86.0	86.5	78.8
	27	81.0	87.0	86.0	78.5
	28	79.5	85.0	84.8	78.0
60 KT LEVEL FLYOVER	29	76.0	79.8	79.5	77.0
	30	80.5	80.8	79.3	75.0
	31	77.8	78.8	79.3	79.5
99 KT LEVEL FLYOVER	32	81.0	84.5	———	79.8
	33	80.0	82.5	82.5	80.0
	34	81.0	83.3	81.0	78.8
110 KT LEVEL FLYOVER	35	82.0	85.3	84.5	83.8
	36	83.0	85.5	87.3	81.8
	44	82.8	87.0	86.0	80.5
	45	81.8	81.3	81.5	79.5

TABLE E-VIII

Helicopter Noise Level Data

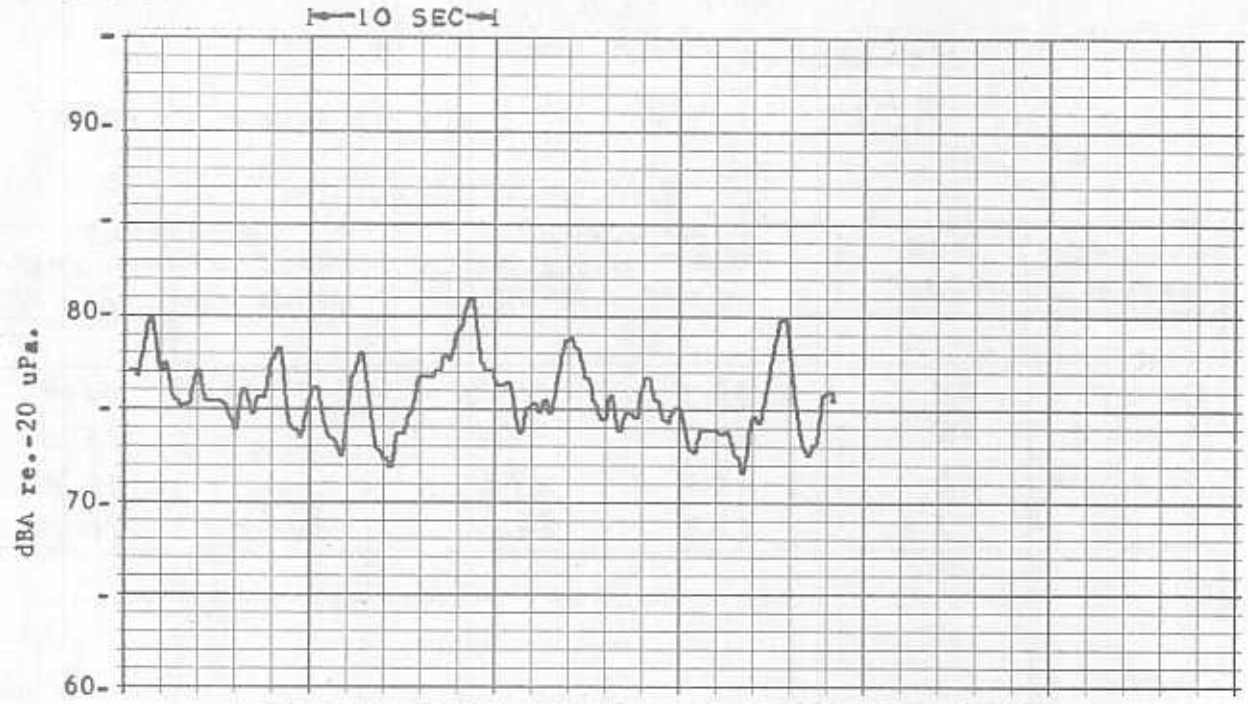
BELL 212

OCTOBER 6, 1976

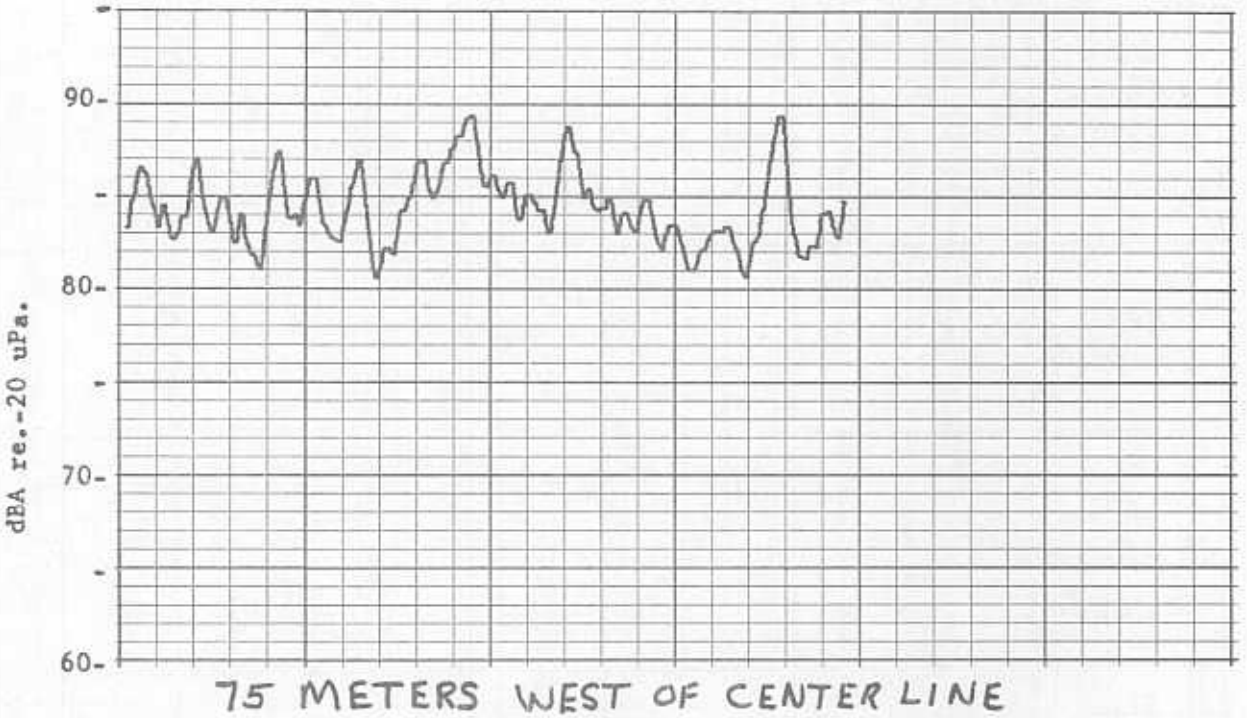
max. RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	CENTER LINE	MICROPHONE OFFSET TO THE EAST CENTER LINE	150M
114 KT LEVEL FLYOVER	37	83.3	90.0	87.0	86.3
	38	84.5	90.8	86.5	85.0
	46	84.5	87.0	85.0	85.3
	47	82.3	86.0	84.5	85.0
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					

TABLE E-IX



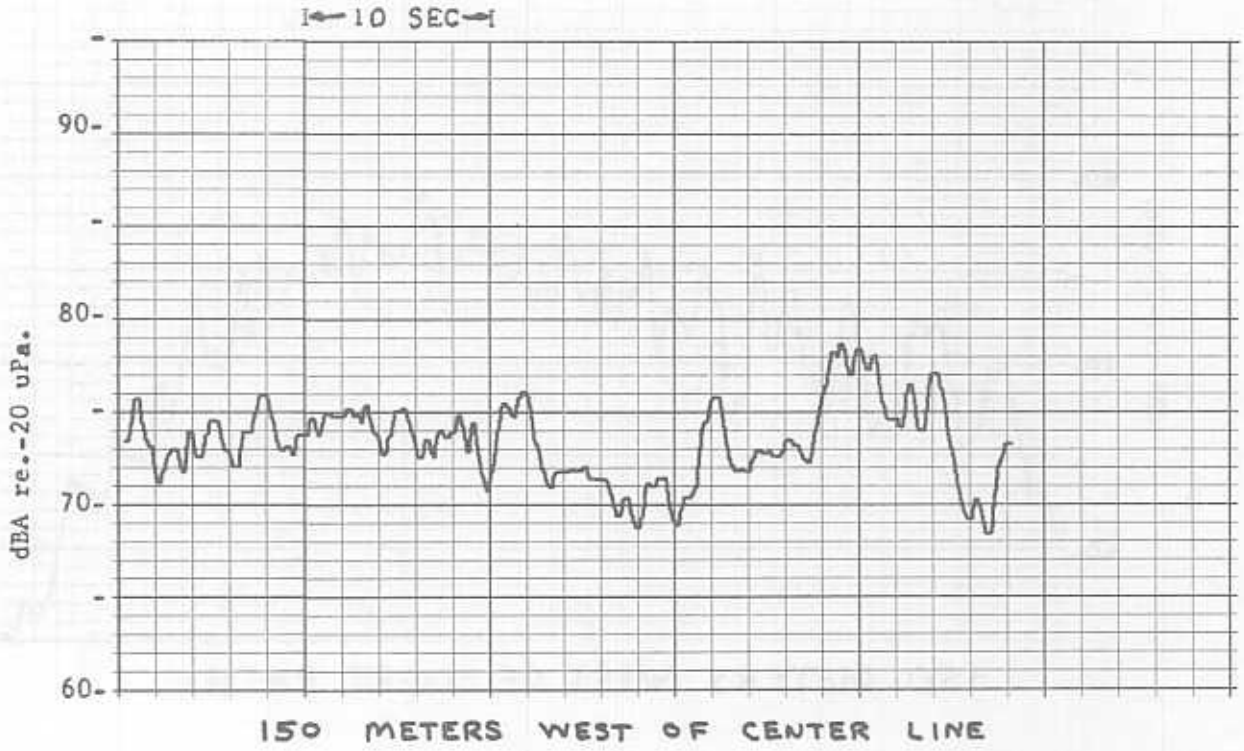
150 METERS WEST OF CENTER LINE

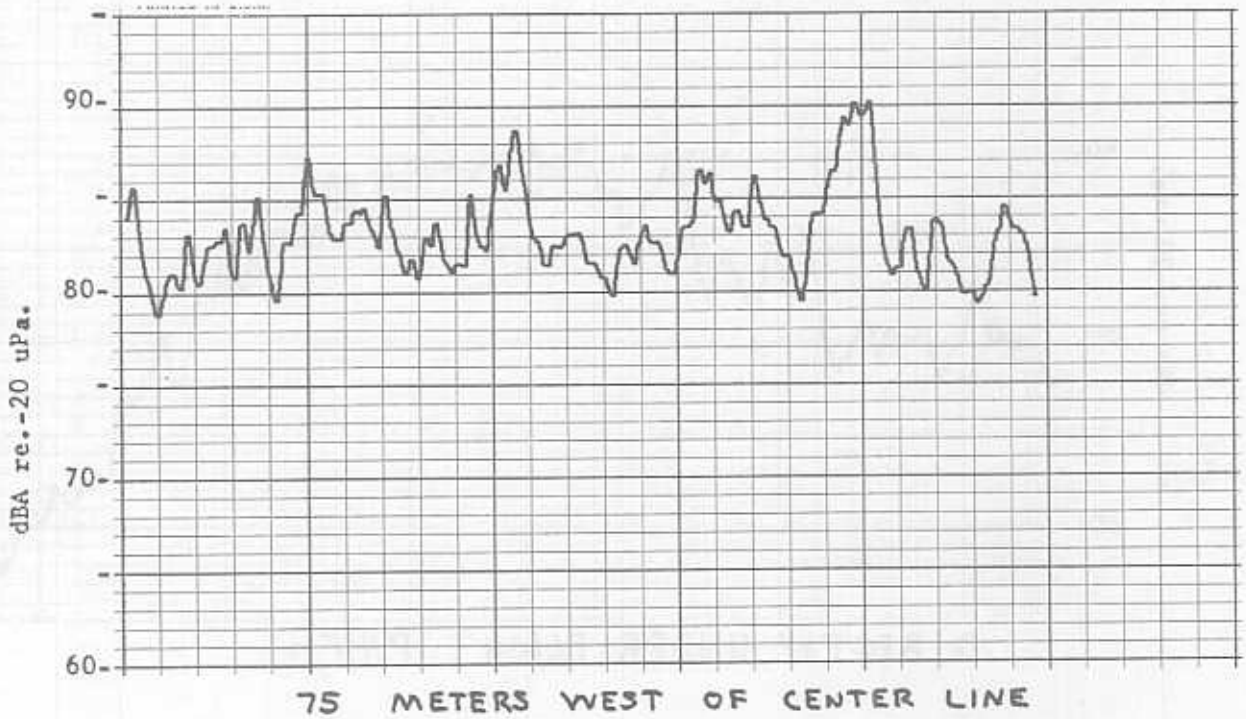


75 METERS WEST OF CENTER LINE

NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
90° HOVER - 5 FT RUN 3

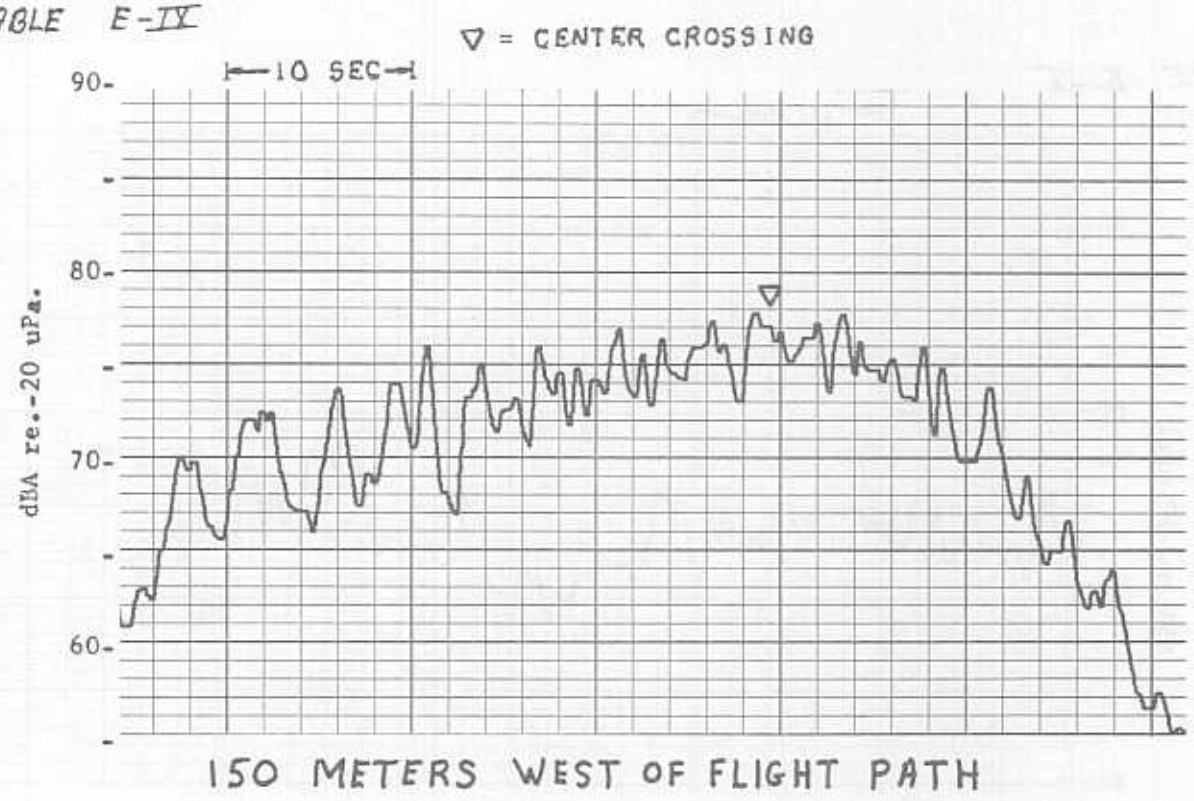
TABLE E-IX



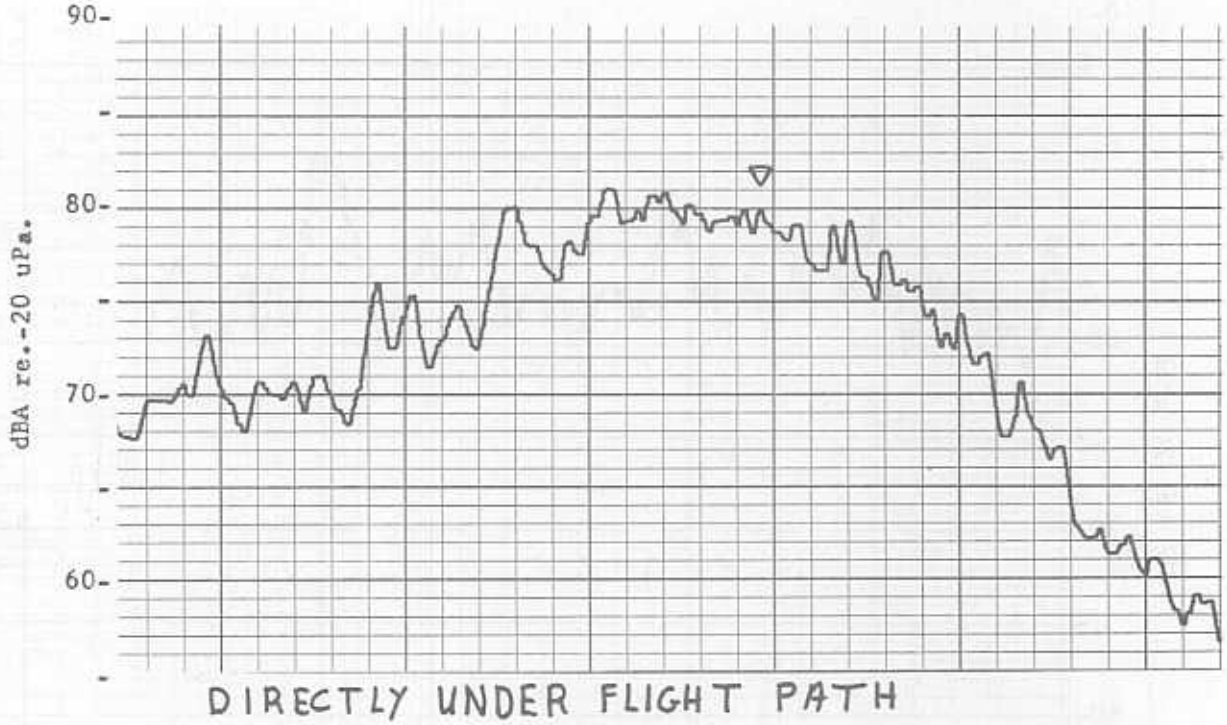


NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
180° HOVER - 5 FT. RUN 5

TABLE E-IX



150 METERS WEST OF FLIGHT PATH

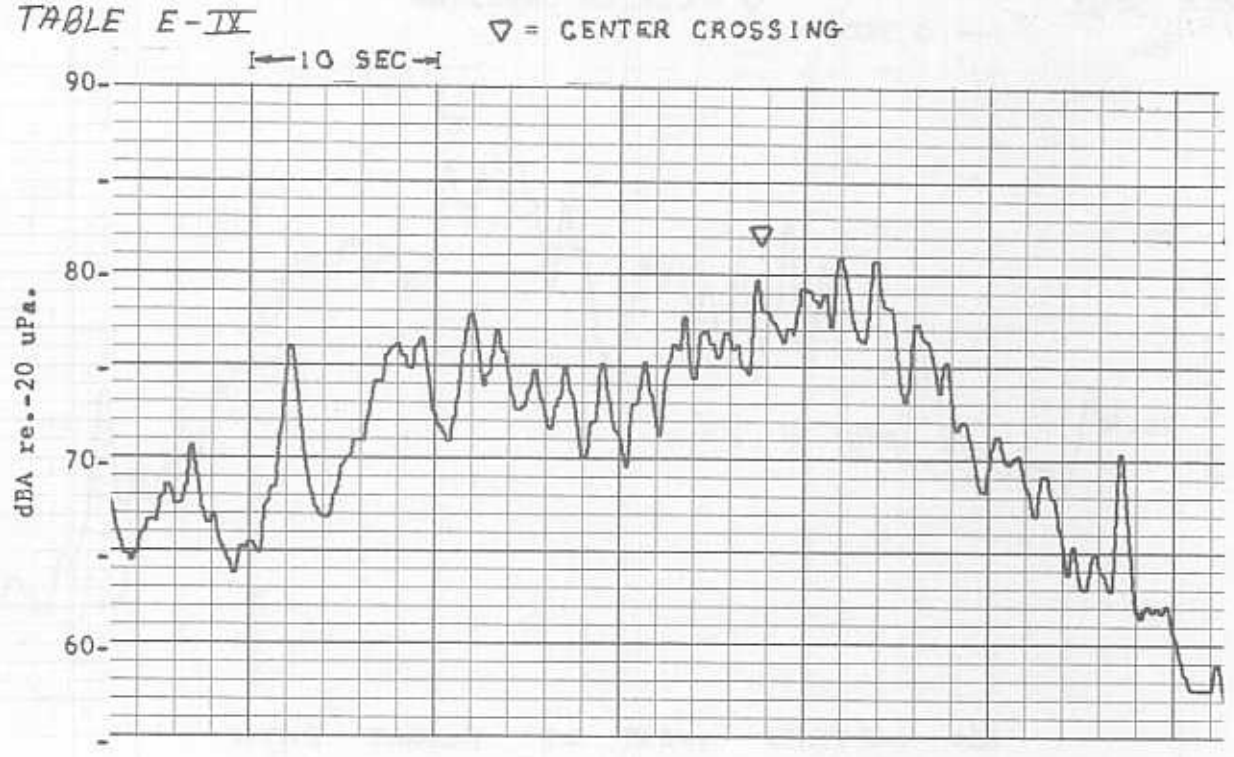


DIRECTLY UNDER FLIGHT PATH

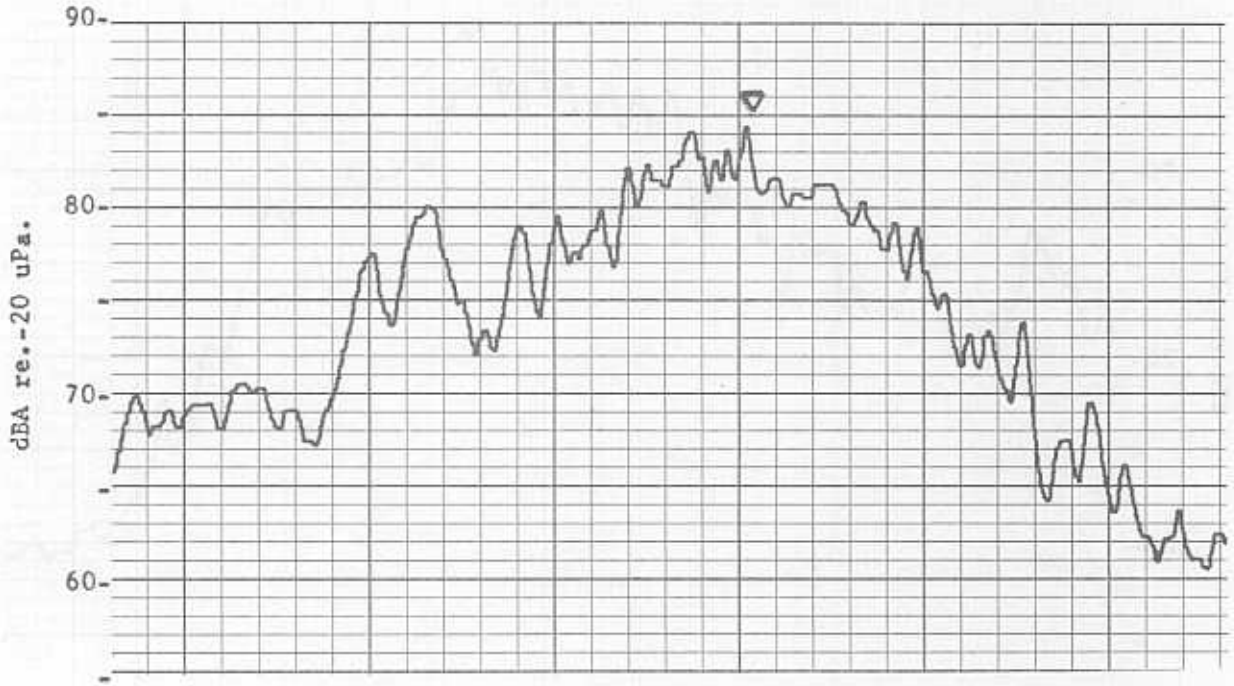
NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
3° APPROACH

RUN 42

TABLE E-IX



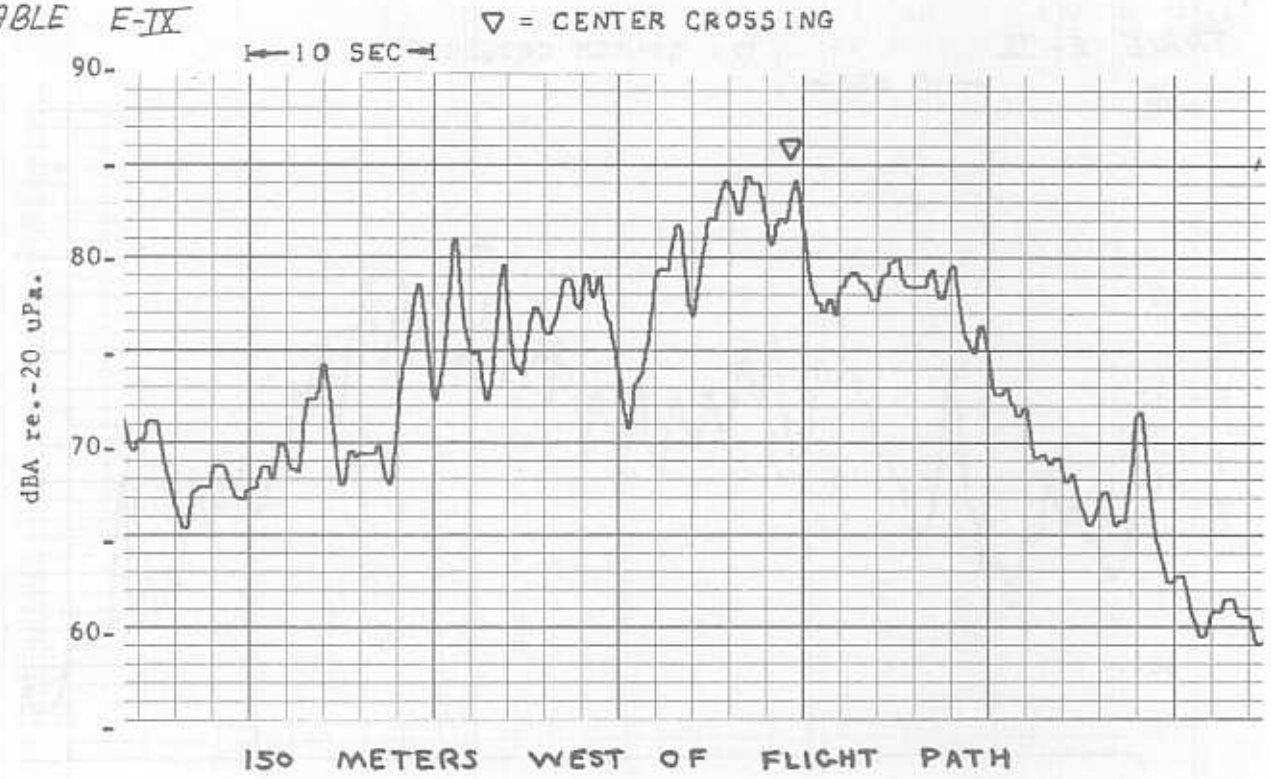
150 METERS WEST OF FLIGHT PATH



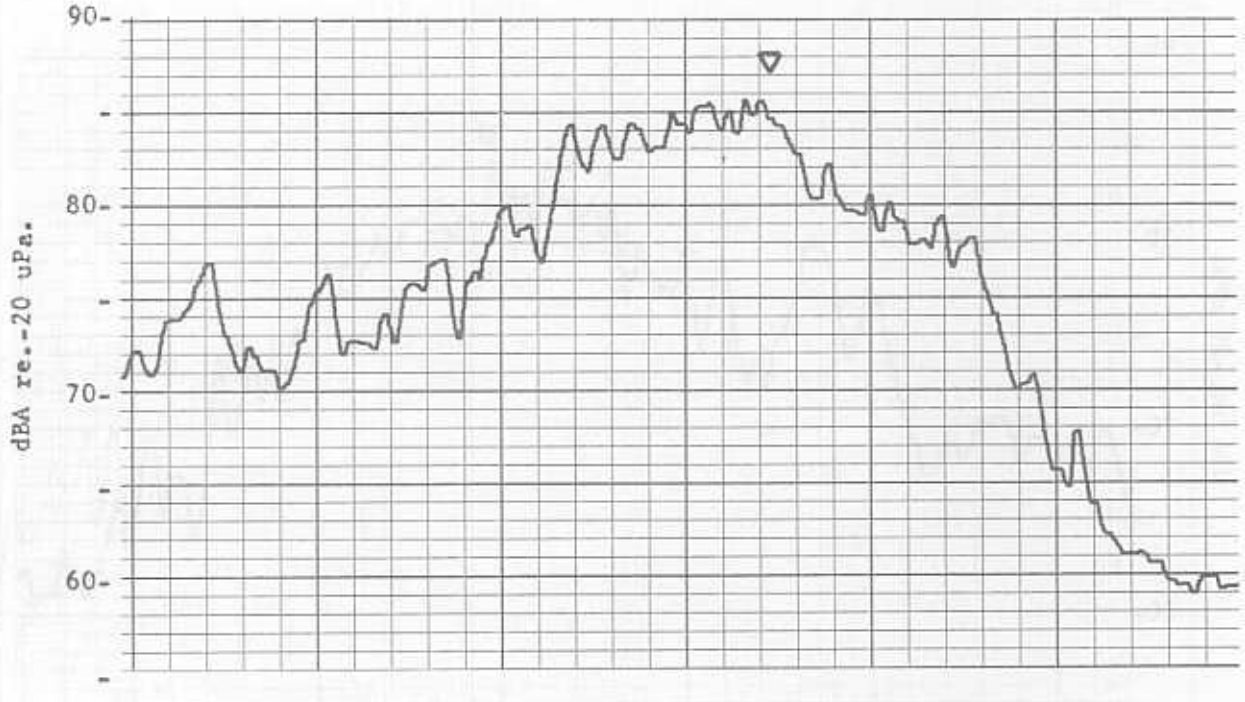
DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
6° APPROACH RUN 24

TABLE E-IX



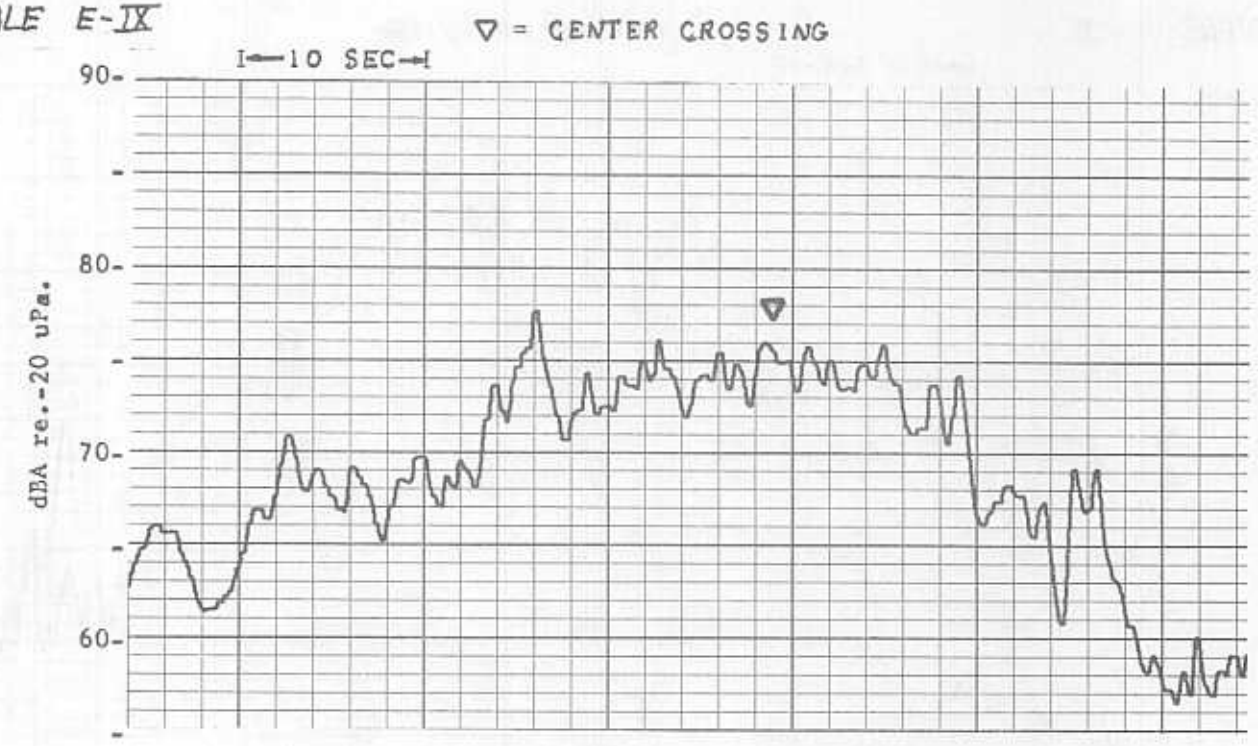
150 METERS WEST OF FLIGHT PATH



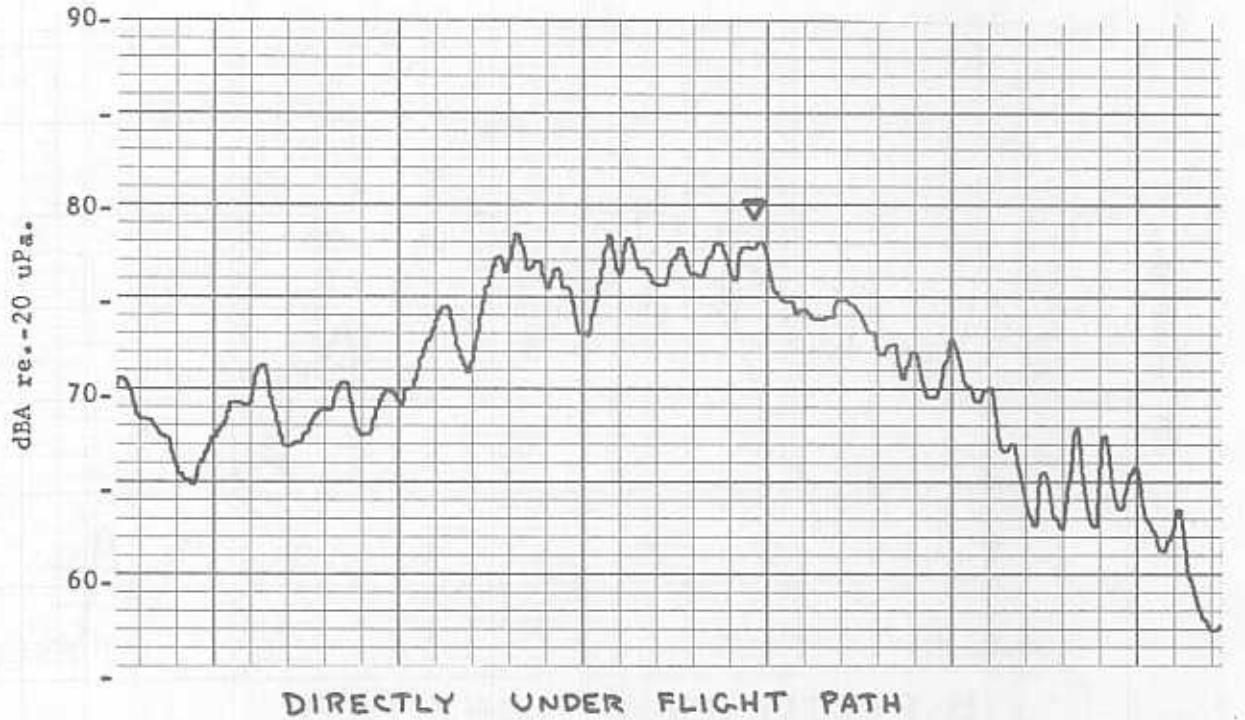
DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
9° APPROACH RUN 26

TABLE E-IX



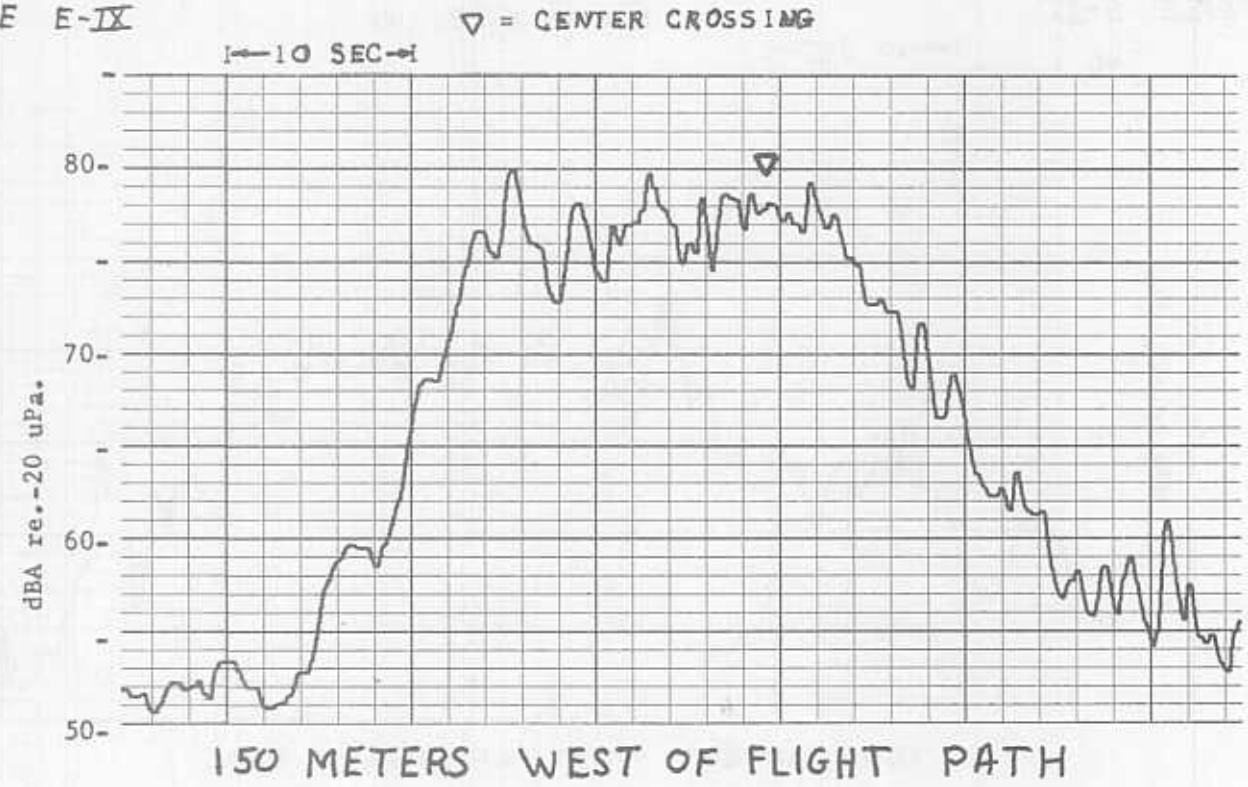
150 METERS WEST OF FLIGHT PATH



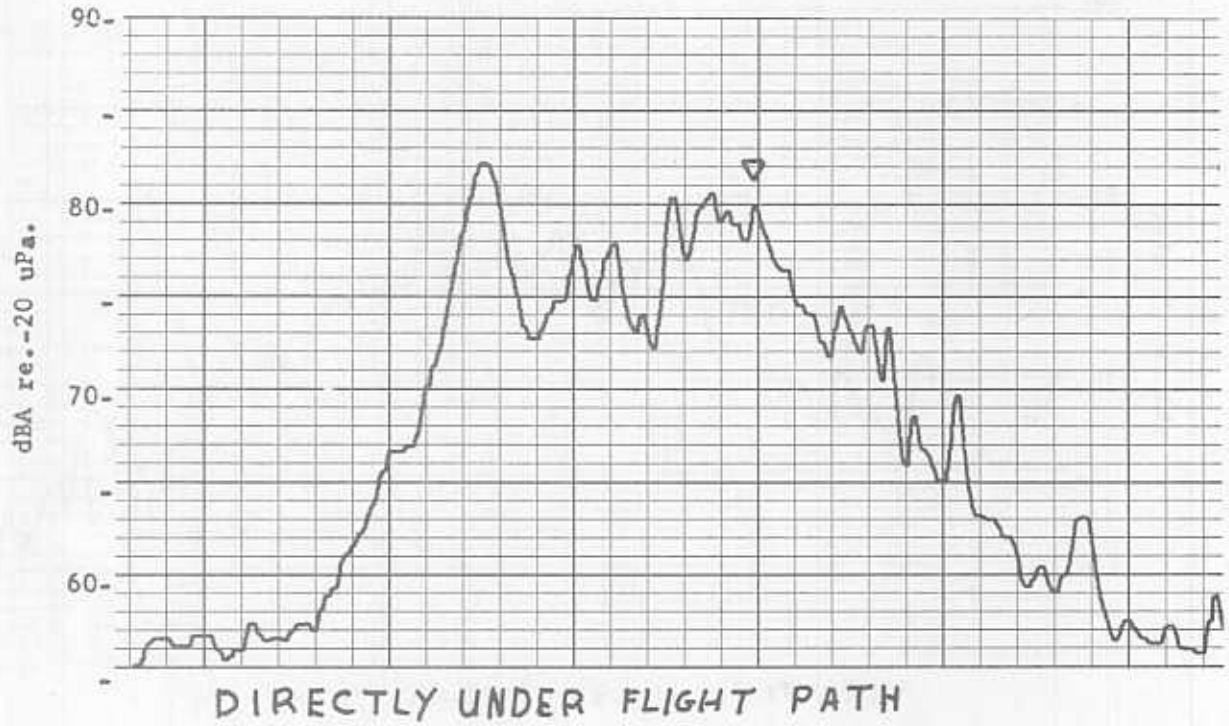
DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
LEVEL FLYOVER - 60 KTS RUN 31

TABLE E-IX



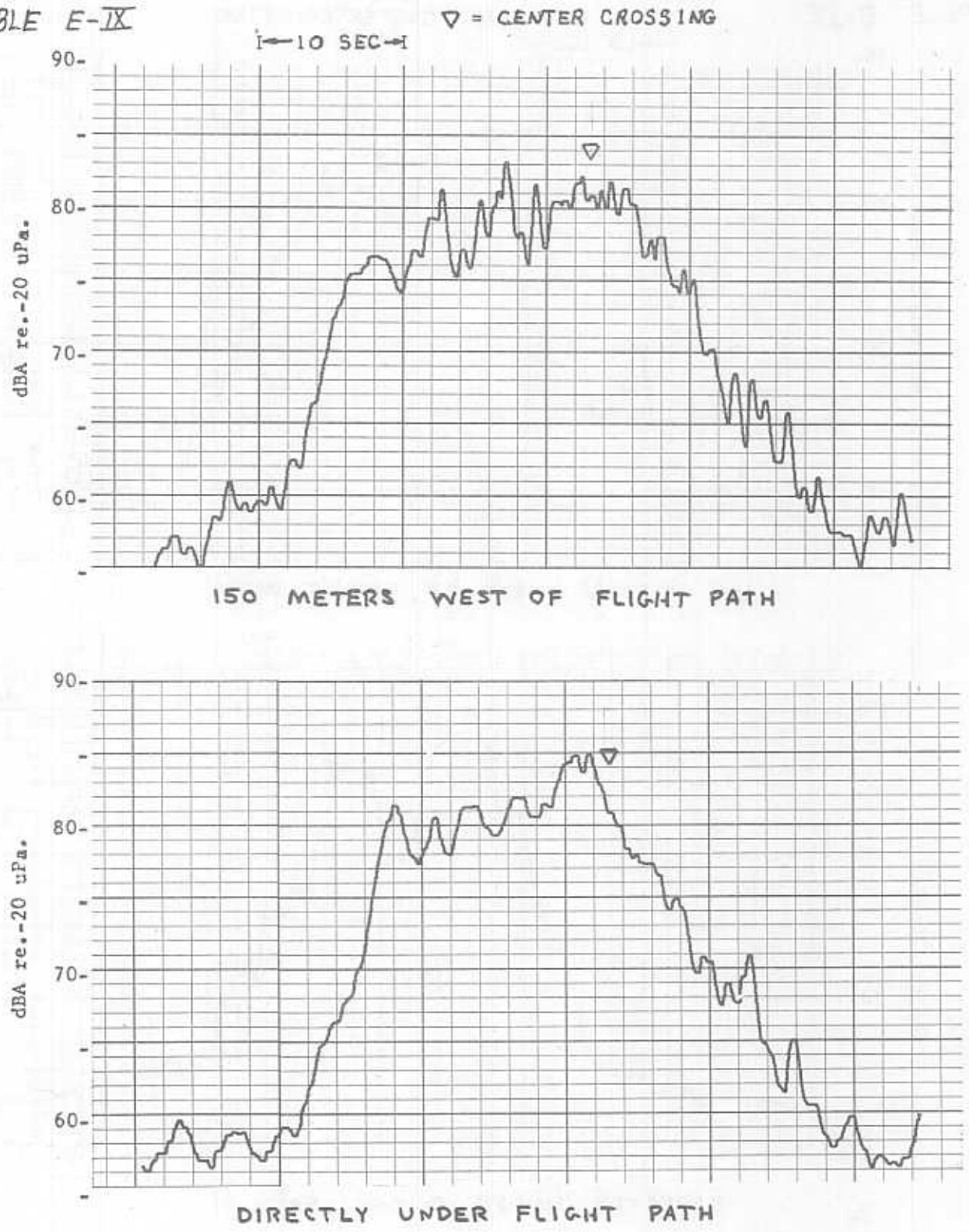
150 METERS WEST OF FLIGHT PATH



DIRECTLY UNDER FLIGHT PATH

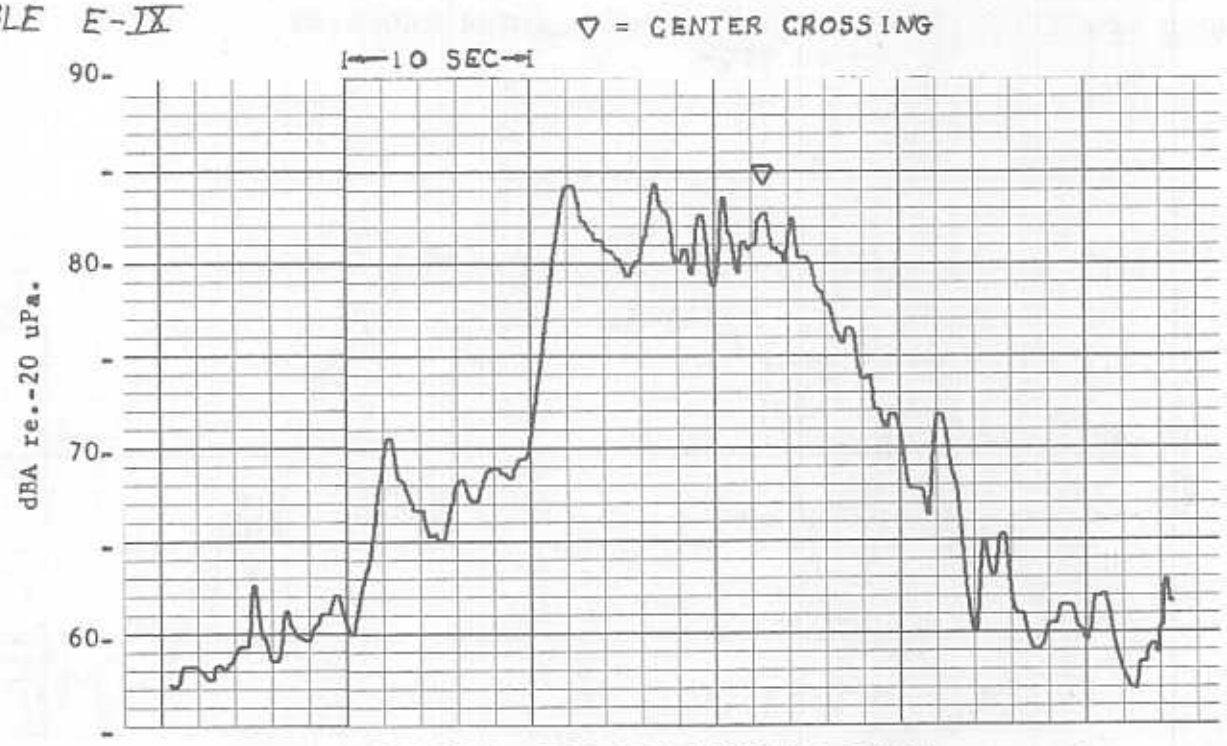
NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
LEVEL FLYOVER - 99 KTS. RUN 33

TABLE E-IX

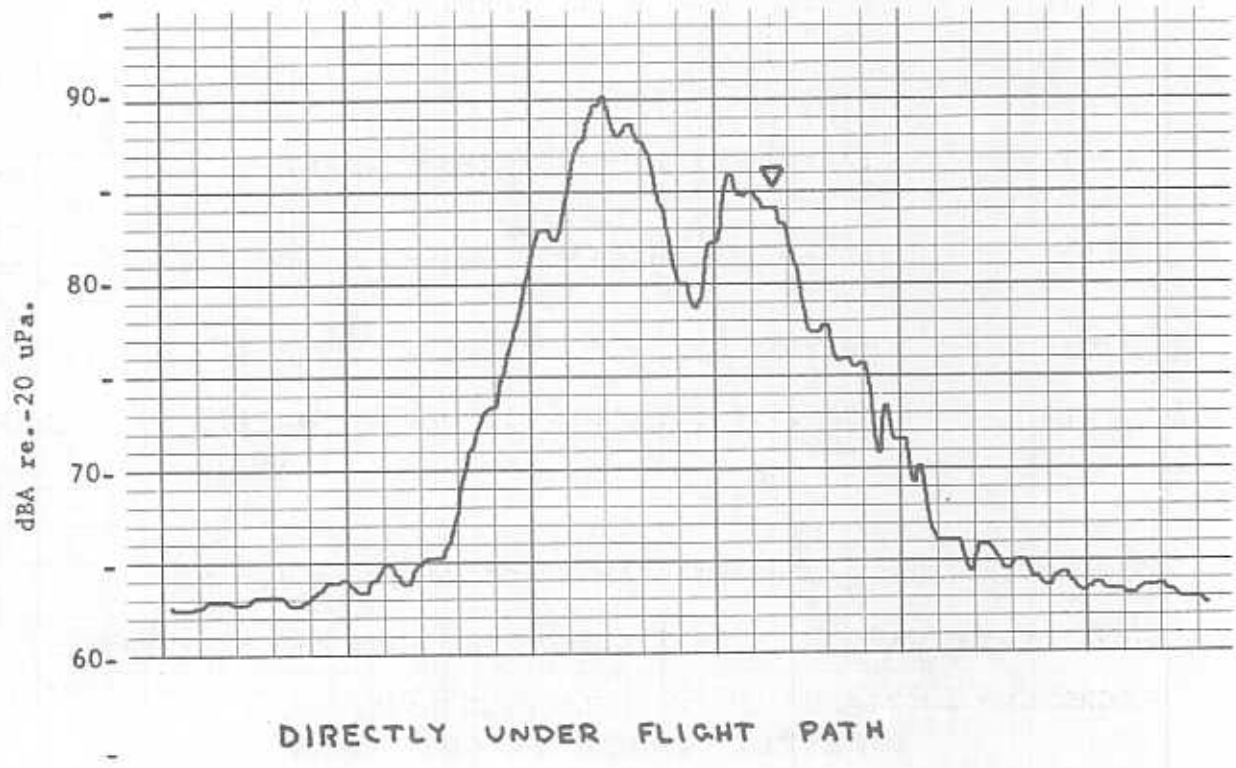


NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
LEVEL FLYOVER - 110 KTS RUN 36

TABLE E-IX



150 METERS WEST OF FLIGHT PATH



DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
BELL 212 HELICOPTER
LEVEL FLYOVER - 114 KTS RUN 38

DATA TABLE F

Sikorsky S-61(SH-3A)

TEST DATE: 10-28-76 TEST SITE: NASA LANGLEY

SECTION - F	CONTENT	PAGE #
I	RUN LIST	473
II	GROUND AND FLIGHT LOG DATA	476
III	METEOROLOGICAL DATA	479
IV	LEVEL FLYOVER AND APPROACH NOISE DATA	480
V	TIME HISTORIES	482
VI	1/3-OCTAVE BAND SPECTRA--FLYOVER AND APPROACH	502
VII	1/3-OCTAVE BAND SPECTRA--5 FOOT HOVER	522
VIII	MAXIMUM dBA NOISE LEVEL (ALL RUNS)	545
IX	SELECTED dBA TIME HISTORIES--GRAPHIC PLOTS	547

THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE F-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION		MICROPHONE LOCATION			
			WEST		EAST	
			150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
16	9° Approach	60 Kts		X		
18	Level Flyover	60 Kts		X		
19	↓	↓		X		
20	6° Approach	60 Kts		X		
26	Level Flyover	100 Kts		X		
27	↓	↓		X		
28				X		
31	3° Approach	60 Kts		X		
32	Level Flyover	115 Kts	X	X	X	X
33	↓	↓	X	X	X	X
34			X	X	X	X
	Microphone Locations		Over Concrete	Over Concrete	Over Grass	Over Concrete

GENERAL COMMENTS

- There were no problems encountered while testing the Sikorsky S-61 (SH-3A).
- The weather conditions during the test were very windy with gusts in the 10-20 mph range.
- Because the S-61's gross weight was effected by its rate of fuel consumption, a table has been inserted which provides a log of the gross weight as a function of time.

TABLE F-II Ground and Flight Log Data

Helicopter Model: Sikorsky S-61 Military Designation SH-3A Registration Number: 538 NASA Test Date: Oct. 28, 1976

Run	Time	Target Conditions: Type	Target Conditions: Velocity	Target Conditions: Altitude over MSL	Actual Conditions: dB A	Actual Conditions: Heading	Actual Conditions: Air Speed	Actual Conditions: Rate of Decent	Actual Conditions: Mast Torque	Actual Conditions: Altitude over MSL	Actual Conditions: RPM	Actual Conditions: OAT	Ground Weather: Temp	Ground Weather: RH	Ground Weather: Wind Speed	Ground Weather: Wind Direction	Comments
1	8:18	Hover	0	5 ft.	94.0	0° N	0	0	68 %	5 ft.	102 %	4° C	39.5°F	—	10-20 kts	N	
2	8:19	↓	↓	↓	96.0	45°	↓	↓	69	↓	↓	↓	↓	↓	↓	↓	Abort
3	8:20				97.0	45°			69								
4	8:21				96.5	90° E			70								
5	8:22				97.0	125°			72								
6	8:22.5				96.0	180° S			71								
7	8:23				91.0	225°			72								
8	8:25				90.0	270° W			72								
9	8:26				93.0	315°			70								
10	8:27				93.0	0°			68								
11	8:28				94.0	45°			69								
12	8:29				94.5	90° E			71								
13	8:30				98.0	135°			72								
14	8:31	↓	↓	↓	95.0	180° S	↓	↓	71	↓	↓	↓					
15	8:45	9° App.	60 kt	400 ft.	—	S	60 kt.	1200 ft/min	14	400 ft.	100 %	2° C	40° F	54%	10-20 kts.	N	good run; on glide slope
16	8:47	↓	↓	↓	83.0	↓	↓	1100	15	↓	↓	↓					good run; on glide slope
17	8:50				84.0			1500	12	High							slightly high over mics but good
18	9:05	Level Flyover	60 kt.	500 ft.	81.0	S	60 kt.	0	56	500 ft.	100 %	4° C					Ground Speed 93 knots
19	9:09	↓	↓	↓	82.0	↓	↓	↓	48	↓	103 %	3° C					↓
20	9:14	6° App.	60 kt.	400 ft.	85.0	S	60 kts	900 ft/min	20	400 ft.	105	3° C					Glide Slope Good; Ground Speed 80 knots
21	9:17	↓	↓	↓	85.5	↓	↓	↓	21	↓	↓	↓					↓
22	9:20	Hover	0	500 ft.	94.0	0° N	0	0	60	500 ft.	100 %	2° C					Abort Altitude too Low
23	9:22	↓	↓	↓	90.0	0° N	↓	↓	62	↓	↓	↓					
24	9:25				90.0	90° E			66								
25	9:27				93.0	295°			75								Heading 295° can't get 270° because of rotor buzz

TABLE F-II Ground and Flight Log Data

Helicopter Model: Sikorsky S-61 Military Designation SH-3A Registration Number: Test Date: Oct. 28, 1976

Run	Time	Type	Velocity	Altitude over Mics.	dB A	Heading	Air Speed	Rate of Descent	Mp or Torque	Altitude over Mics.	RPM	OAT	Temp	RH	Wind Speed	Wind Direction	Comments
26	9:31	Level Flyover	100 kt.	500 ft.	85.0	S	100 kts.	0	68%	500 ft.	103%	4°C					Needs to extend flight path
27	9:34	↓	↓	↓	83.5	↓	↓	↓	70	↓	↓	↓					Flight Path Extended; Looks Good
28	9:37	↓	↓	↓	82.0	↓	↓	↓	65	↓	↓	↓					
29	9:44	3° App.	60 kt.	400 ft	85.5	S	60 kts	600 ft/min	32	375 ft.	105%	2°C					Slightly below glide slope
30	9:47	↓	↓	↓	—	↓	↓	500	33	400 ft.	104	↓					Slightly above glide slope
31	9:53	↓	↓	↓	87.0	↓	↓	500	30	↓	↓	3°C					Glide Slope looks good
32	10:06	Level Flyover	115 kt	500 ft.	86.5	S	115 kts	0	72	500 ft.	102%	4°C	41° F	53%	10-20 kts.	N	130 kts. Ground Speed
33	10:10	↓	↓	↓	82.5	↓	↓	↓	70	↓	↓	↓					125 kts ↓
34	10:15	↓	↓	↓	84.5	↓	↓	↓	78	↓	↓	↓					130 kts

TABLE F-II

SIKORSKY S-61 (SH-3A)

LOG OF GROSS WEIGHT vs. TIME

Time	Run #	Fuel (lbs.)	Total Gross Weight
8:15	1	3000	18,724
8:56	17	2700	18,424
9:11	19	2500	18,224
9:20	22	2350	18,074
9:30	25	2200	17,924
10:00	31	1700	17,424
10:14	34	1500	17,224

TABLE F-III

Meteorological Data
Langley Air Force Base

October 28, 1976

TIME (hours)	TEMP. (of)	BAR. PRESS. (mmhs)	REL. HUM. (%)	WIND SPEED (mph)	WIND DIRECTION (degrees)	REMARKS
0800	53	778	62	5-19	0	Sky - Partly Cloudy
0815	53		66	10-19	20	
0830	53		67	16-23	25	
0845	53		68	14-22	20	
0900	54		69	9-19	30	
0915	54		70	11-19	30	
0930	54		69	13-22	25	
0945	54		69	8-20	20	
1000	54		69	7-16	30	
1015	54		68	12-18	30	
1030	55		67	18-23	40	
1130	54		65	14-18	10	
1145	56		64	10-16	30	
1200	56		64	8-12	35	Sky - Clear
1215	55		63	8-14	20	
1230	56		60	8-12	20	
1245	56		58	13-18	25	
1300	57	774	56	8-15	40	
1315	58		53	8-16	40	
1330	57		52	5-12	50	
1345	57		50	8-15	40	Sky - Clear
1400	57		48	8-12	45	
1415	57		48	5-12	15	
1430	57		47	5-12	50	
1445	58		48	5-9	30	
1500	57	772	47	5-8	20	
1515	57		47	6-12	25	
1530	57		47	5-15	60	
1545	58		48	8-11	30	
1600	58		47	8-10	50	
1615	57		46	9-11	60	
1630	56		46	5-8	40	
1645	57		46	2-9	40	
1700	57		47	1-6	25	
1715	56		48	2-7	40	

TABLE F-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

SIKORSKY S-61

OCTOBER 28 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TP
32	90.3	83.9	87.7	89.3	94.6	94.6	80.0	8.5	8.5	.0
33	89.5	80.9	85.0	86.6	92.3	93.3	77.1	11.0	10.0	1.2
34	89.6	81.8	85.6	87.1	92.9	92.9	78.8	8.5	8.5	.0

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TP
32	89.3	81.6	85.6	85.0	92.2	92.2	78.5	9.5	10.5	.0
33	89.2	81.7	85.4	85.1	91.7	91.7	77.1	13.0	14.5	.0
34	90.5	83.1	86.7	86.5	93.2	93.2	79.3	11.5	12.0	.0

TABLE F-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

SIKORSKY S-61

OCTOBER 28 1976

CENTERLINE MICROPHONE - HARD SITE
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TP
16	91.7	80.4	85.5	93.0	92.7	92.7	75.4	23.0	22.5	.0
18	92.4	80.2	84.8	90.1	91.3	91.3	76.7	24.0	25.0	.0
19	92.1	81.3	86.1	90.8	93.2	93.2	76.9	21.0	21.0	.0
20	95.1	84.6	90.4	94.0	97.0	97.0	80.2	16.5	17.5	.0
26	92.5	84.1	88.2	88.3	95.2	95.2	80.6	10.5	14.0	.0
27	91.3	82.8	87.1	87.6	94.3	94.9	79.3	10.0	12.0	1.0
28	89.6	81.0	85.9	87.1	92.5	92.5	77.1	12.0	12.0	.0
31	95.6	86.6	91.2	93.1	97.9	97.9	83.1	11.5	13.0	.0
32	92.0	84.8	89.2	88.7	96.2	96.2	82.1	7.5	8.5	.0
33	90.4	80.9	85.7	87.3	92.5	92.5	77.2	14.5	14.5	.0
34	91.4	83.5	87.8	87.8	94.9	94.9	79.4	11.5	11.5	.0

CENTERLINE MICROPHONE - SOFT SITE
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TP
32	89.2	81.0	85.7	86.4	92.3	92.3	77.6	10.5	10.5	.0
33	88.1	78.8	83.4	85.8	90.6	90.6	75.6	11.0	12.5	.0
34	88.9	80.5	85.5	86.6	92.0	92.0	78.2	8.5	8.5	.0

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB' RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	65.7	71.3	79.7	78.3	78.3	12.6	5.6
	2	67.4	72.8	80.6	79.6	79.6	12.2	5.4
	3	71.7	75.9	81.6	82.7	84.0	11.0	4.2
	4	73.2	77.1	82.2	84.1	84.1	10.9	3.9
	5	74.9	78.5	83.0	85.4	86.9	10.5	3.6
	6	75.5	79.0	83.6	86.2	87.9	10.7	3.5
	7	77.6	81.6	84.9	88.5	88.5	10.9	4.0
	8	79.8	83.9	86.2	90.4	90.4	10.6	4.1
	9	80.9	85.1	87.2	91.9	91.9	11.0	4.2
	10	82.5	86.4	88.4	93.3	93.3	10.8	3.9
OH →	11	83.5	87.4	89.2	94.1	94.1	10.6	3.9
	12	83.9	87.7	89.3	94.6	94.6	10.7	3.8
	13	83.2	86.9	88.2	93.9	93.9	10.7	3.7
	14	81.6	85.4	86.4	92.6	92.6	11.0	3.8
	15	80.0	83.9	84.7	91.5	91.5	11.5	3.9
	16	78.6	82.5	83.3	90.0	90.0	11.4	3.9
	17	77.8	81.4	82.6	89.0	89.0	11.2	3.6
	18	77.0	80.5	81.8	88.0	88.0	11.0	3.5
	19	76.0	79.7	81.1	87.3	87.3	11.3	3.7
	20	74.4	78.1	79.8	85.5	85.5	11.1	3.7
	21	72.3	76.5	78.5	83.4	83.4	11.1	4.2
	22	69.8	74.6	77.7	81.5	81.5	11.7	4.8
	23	67.6	73.0	77.1	80.0	80.0	12.4	5.4

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.9	72.0	80.7	79.4	79.4	13.5	6.1
2	67.7	72.7	80.8	79.9	81.1	12.2	5.0
3	69.4	73.9	80.7	80.7	82.1	11.3	4.5
4	71.4	75.6	80.2	82.3	83.3	10.9	4.2
5	72.3	76.3	80.7	83.2	83.2	10.9	4.0
6	73.0	76.9	81.1	83.7	85.4	10.7	3.9
7	74.6	78.3	82.0	85.5	87.2	10.9	3.7
8	75.9	79.8	82.5	86.6	87.8	10.7	3.9
9	76.6	80.7	82.8	87.6	87.6	11.0	4.1
10	78.0	82.0	84.2	89.2	90.4	11.2	4.0
11	79.6	83.6	85.0	90.9	92.5	11.3	4.0
12	80.9	84.6	85.9	92.1	93.3	11.2	3.7
OH→13	80.9	85.0	86.3	92.3	92.3	11.4	4.1
14	80.4	84.7	86.6	92.3	92.3	11.9	4.3
15	79.7	84.2	86.3	92.0	92.0	12.3	4.5
16	79.3	83.6	85.7	91.2	91.2	11.9	4.3
17	78.7	82.8	84.6	90.3	90.3	11.6	4.1
18	77.5	81.6	83.7	88.9	88.9	11.4	4.1
19	76.1	80.0	82.5	87.6	87.6	11.5	3.9
20	74.3	78.3	81.5	86.0	86.0	11.7	4.0
21	73.2	77.3	80.3	84.6	84.6	11.4	4.1
22	72.8	76.8	80.8	84.1	84.1	11.3	4.0
23	72.1	76.0	80.7	83.6	83.6	11.5	3.9
24	71.6	75.6	80.3	82.8	82.8	11.2	4.0
25	70.3	74.6	78.6	81.5	81.5	11.2	4.3
26	69.4	73.8	77.8	80.8	80.8	11.4	4.4
27	67.5	72.1	77.2	79.8	79.8	12.3	4.6
28	65.9	70.8	76.3	79.0	79.0	13.1	4.9

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.8	72.2	80.1	79.2	79.2	13.4	6.4
2	67.8	73.7	81.2	80.9	80.9	13.1	5.9
3	69.3	74.8	81.7	81.7	81.7	12.4	5.5
4	71.7	76.3	82.5	83.0	83.0	11.3	4.6
5	74.4	78.8	83.4	85.3	86.7	10.9	4.4
6	77.3	81.8	84.9	88.3	90.5	11.0	4.5
7	77.7	82.2	85.5	88.8	90.5	11.1	4.5
8	78.8	83.2	86.1	89.9	89.9	11.1	4.4
9	79.8	83.8	86.5	90.7	90.7	10.9	4.0
10	81.1	84.8	86.9	91.9	91.9	10.8	3.7
OH → 11	81.5	85.4	87.1	92.4	92.4	10.9	3.9
12	81.8	85.6	86.9	92.8	92.8	11.0	3.8
13	81.4	85.6	86.5	92.9	92.9	11.5	4.2
14	80.8	84.9	85.7	92.3	92.3	11.5	4.1
15	79.7	84.1	84.9	91.3	91.3	11.6	4.4
16	78.9	83.1	84.1	90.6	90.6	11.7	4.2
17	77.3	81.5	82.8	89.0	89.0	11.7	4.2
18	75.4	79.4	81.0	86.8	86.8	11.4	4.0
19	72.7	76.7	79.0	83.9	83.9	11.2	4.0
20	71.3	75.1	78.8	82.6	82.6	11.3	3.8
21	70.1	74.2	78.6	81.4	81.4	11.3	4.1
22	69.1	73.4	78.7	80.5	80.5	11.4	4.3
23	68.8	73.1	77.8	80.4	81.5	11.6	4.3

TABLE F-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	67.9	73.5	78.4	79.7	79.7	11.8	5.6
	2	68.9	74.2	78.5	80.5	80.5	11.6	5.3
	3	69.7	75.1	79.2	82.0	83.2	12.3	5.4
	4	71.8	76.9	79.8	83.4	83.4	11.6	5.1
	5	75.4	79.8	80.7	86.4	87.6	11.0	4.4
	6	76.5	80.9	81.0	87.5	89.0	11.0	4.4
	7	76.8	81.3	81.3	87.9	89.3	11.1	4.5
	8	77.8	82.2	82.6	88.9	88.9	11.1	4.4
	9	79.0	83.4	83.8	90.1	90.1	11.1	4.4
	10	80.5	84.7	84.9	91.4	91.4	10.9	4.2
	11	81.5	85.5	85.0	92.2	92.2	10.7	4.0
OH →	12	81.6	85.6	84.7	92.2	92.2	10.6	4.0
	13	81.4	85.6	84.6	92.1	92.1	10.7	4.2
	14	80.9	85.1	84.6	91.4	91.4	10.5	4.2
	15	80.2	84.3	84.4	90.8	90.8	10.6	4.1
	16	79.2	83.1	83.5	89.7	89.7	10.5	3.9
	17	78.1	82.3	82.7	88.7	88.7	10.6	4.2
	18	77.6	81.7	81.7	88.1	88.1	10.5	4.1
	19	76.0	80.2	80.5	86.7	86.7	10.7	4.2
	20	74.3	78.4	79.0	85.2	85.2	10.9	4.1
	21	72.4	76.6	77.7	83.5	83.5	11.1	4.2
	22	71.3	75.7	76.7	82.3	82.3	11.0	4.4
	23	69.3	74.2	75.7	81.0	82.2	11.7	4.9
	24	67.6	73.0	74.6	79.6	79.6	12.0	5.4
	25	66.2	72.1	75.0	78.7	78.7	12.5	5.9

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	63.8	71.6	78.7	77.8	77.8	14.0	7.8
	2	68.6	74.0	80.0	80.8	82.4	12.2	5.4
	3	70.9	75.6	81.2	82.3	83.7	11.4	4.7
	4	71.7	76.4	82.2	82.8	83.8	11.1	4.7
	5	73.3	77.8	82.7	84.3	84.3	11.0	4.5
	6	75.9	80.1	83.2	86.7	86.7	10.8	4.2
	7	76.4	80.7	83.2	87.3	87.3	10.9	4.3
	8	75.2	79.8	82.6	86.5	86.5	11.3	4.6
	9	71.6	77.2	81.4	83.7	83.7	12.1	5.6
	10	70.8	75.8	80.6	82.1	83.5	11.3	5.0
	11	72.6	76.7	80.4	83.5	86.1	10.9	4.1
	12	73.8	77.6	80.7	84.6	86.6	10.8	3.8
	13	75.1	79.1	80.9	85.9	87.0	10.8	4.0
	14	78.0	82.3	82.4	89.1	89.1	11.1	4.3
	15	79.9	83.8	83.4	90.5	90.5	10.6	3.9
	16	81.0	84.9	84.4	91.5	91.5	10.5	3.9
	17	81.4	85.1	84.9	91.5	91.5	10.1	3.7
OH →	18	81.7	85.4	85.1	91.7	91.7	10.0	3.7
	19	80.9	84.6	84.8	90.8	90.8	9.9	3.7
	20	79.8	83.5	84.3	89.8	89.8	10.0	3.7
	21	78.2	82.2	83.7	88.6	88.6	10.4	4.0
	22	77.6	81.9	83.3	88.3	88.3	10.7	4.3
	23	76.7	81.3	82.6	87.5	87.5	10.8	4.6
	24	75.2	80.1	81.8	86.5	86.5	11.3	4.9
	25	74.4	79.0	81.3	85.9	85.9	11.5	4.6
	26	73.5	78.0	80.7	85.1	85.1	11.6	4.5
	27	73.7	77.9	80.2	84.8	84.8	11.1	4.2
	28	73.1	77.7	79.6	84.3	84.3	11.2	4.6
	29	71.6	76.7	78.6	83.1	83.1	11.5	5.1
	30	69.1	75.0	77.4	81.5	81.5	12.4	5.9
	31	65.9	73.2	76.4	80.2	80.2	14.3	7.3
	32	65.5	72.9	76.3	80.1	80.1	14.6	7.4

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	63.6	71.1	79.2	77.0	78.4	13.4	7.5
	2	66.4	73.0	79.7	79.1	80.5	12.7	6.6
	3	70.9	75.6	80.5	82.2	83.4	11.3	4.7
	4	73.1	77.2	80.6	83.6	83.6	10.5	4.1
	5	73.6	77.8	80.4	84.0	84.0	10.4	4.2
	6	72.6	77.1	79.9	83.7	83.7	11.1	4.5
	7	72.5	77.3	79.6	83.8	84.9	11.3	4.8
	8	74.4	78.5	80.1	85.1	86.6	10.7	4.1
	9	76.3	81.0	80.8	87.1	88.1	10.8	4.7
	10	78.5	83.1	82.7	89.2	90.2	10.7	4.6
	11	79.9	84.8	83.9	90.7	91.8	10.8	4.9
	12	81.5	85.7	85.1	91.9	91.9	10.4	4.2
	13	81.2	85.3	85.1	91.6	91.6	10.4	4.1
	14	80.7	84.6	84.7	91.0	91.0	10.3	3.9
	15	80.2	84.5	84.4	90.8	90.8	10.6	4.3
	16	81.1	85.0	84.7	91.2	91.2	10.1	3.9
	17	81.0	85.2	84.9	91.2	91.2	10.2	4.2
	18	82.8	86.6	86.4	92.8	92.8	10.0	3.8
OH →	19	83.0	86.7	86.5	93.2	93.2	10.2	3.7
	20	83.1	86.6	86.2	93.1	93.1	10.0	3.5
	21	80.8	84.2	83.7	90.7	90.7	9.9	3.4
	22	78.6	82.1	81.6	88.4	88.4	9.8	3.5
	23	76.3	79.6	79.8	86.0	86.0	9.7	3.3
	24	75.8	79.2	79.3	85.6	85.6	9.8	3.4
	25	74.6	78.0	78.3	84.6	85.9	10.0	3.4
	26	73.2	77.1	77.4	83.3	84.5	10.1	3.9
	27	70.7	75.2	76.5	81.8	81.8	11.1	4.5
	28	70.2	75.0	76.7	81.6	81.6	11.4	4.8
	29	68.7	73.6	76.4	80.1	80.1	11.4	4.9

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 16, 9 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.3	69.3	78.1	77.0	77.0	14.7	7.0
3	64.0	69.9	79.0	77.5	78.5	13.5	5.9
5	65.6	70.9	79.6	78.5	80.2	12.9	5.3
7	69.6	74.4	79.7	82.2	82.2	12.6	4.8
9	74.0	78.8	82.1	86.1	86.1	12.1	4.8
11	69.5	74.8	81.6	82.5	82.5	13.0	5.3
13	68.1	73.9	82.7	80.9	82.2	12.8	5.8
15	68.1	73.9	82.7	81.1	81.1	13.0	5.8
17	67.6	73.5	83.2	81.3	82.3	13.7	5.9
19	68.3	74.5	84.1	82.1	83.1	13.8	6.2
21	69.3	75.3	84.4	82.9	82.9	13.6	6.0
23	70.7	76.5	85.7	83.5	84.7	12.8	5.8
25	73.2	78.6	85.9	85.9	87.8	12.7	5.4
27	73.3	78.8	86.6	86.3	87.7	13.0	5.5
29	73.0	79.0	87.4	86.3	86.3	13.3	6.0
31	72.4	78.8	88.5	86.2	86.2	13.8	6.4
33	73.4	80.0	90.5	86.9	86.9	13.5	6.6
35	76.0	82.3	92.2	88.6	88.6	12.6	6.3
37	77.7	83.5	93.0	90.4	90.4	12.7	5.8
OH → 39	79.5	85.0	91.0	92.3	92.3	12.8	5.5
41 → 40	79.9	85.4	88.3	92.7	92.7	12.8	5.5
43	80.4	85.3	88.3	92.4	92.4	12.0	4.9
45	80.4	85.3	89.3	92.4	92.4	12.0	4.9
47	78.0	83.2	87.3	90.4	90.4	12.4	5.2
49	74.4	79.6	83.5	86.3	86.3	11.9	5.2
51	71.9	77.0	81.0	83.5	83.5	11.6	5.1
53	70.4	75.1	79.2	82.0	82.0	11.6	4.7
55	69.1	74.3	77.6	81.2	82.2	12.1	5.2
57	67.0	72.2	77.4	79.1	79.1	12.1	5.2
59	66.7	71.8	77.4	78.8	78.8	12.1	5.1

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 18, 60 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	62.3	69.3	77.2	76.3	76.3	14.0	7.0
	3	63.5	69.9	78.0	77.3	77.3	13.8	6.4
	5	67.1	72.6	79.0	79.8	79.8	12.7	5.5
	7	70.8	75.2	79.8	83.1	83.1	12.3	4.4
	9	76.5	80.5	82.7	87.9	89.5	11.4	4.0
	11	77.8	81.6	82.9	88.2	89.7	10.4	3.8
	13	76.1	80.1	81.7	87.1	89.2	11.0	4.0
	15	73.1	77.3	81.0	85.0	86.0	11.9	4.2
	17	71.0	75.8	80.8	83.2	84.2	12.2	4.8
	19	69.7	74.6	80.8	81.6	81.6	11.9	4.9
	21	74.3	78.4	81.3	85.8	87.8	11.5	4.1
	23	75.2	79.4	83.0	86.5	88.2	11.3	4.2
	25	74.7	79.4	84.3	86.9	86.9	12.2	4.7
	27	76.0	80.5	83.5	87.7	89.2	11.7	4.5
	29	76.8	81.4	84.0	88.1	89.1	11.3	4.6
	31	78.1	82.8	85.0	89.6	89.6	11.5	4.7
	33	78.9	83.7	86.2	90.7	90.7	11.8	4.8
	35	79.7	84.4	87.3	91.2	91.2	11.5	4.7
	37	80.0	84.8	87.7	91.3	91.3	11.3	4.8
OH →	39	80.2	84.4	88.7	91.2	91.2	11.0	4.2
	41	79.1	83.5	89.7	90.3	90.3	11.2	4.4
	43	78.0	82.3	90.1	89.0	89.0	11.0	4.3
	45	77.3	81.3	89.3	87.9	87.9	10.6	4.0
	47	76.5	80.4	87.5	87.1	87.1	10.6	3.9
	49	75.1	79.2	85.9	86.0	86.0	10.9	4.1
	51	74.2	78.4	84.1	85.1	85.1	10.9	4.2
	53	72.6	77.1	82.5	83.9	83.9	11.3	4.5
	55	69.1	73.6	80.7	80.9	80.9	11.8	4.5
	57	66.0	71.6	80.3	78.7	78.7	12.7	5.6
	59	66.0	71.1	78.8	78.1	78.1	12.1	5.1
	61	64.9	69.7	77.1	76.9	78.5	12.0	4.8

TABLE F-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 19, 60 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	63.6	71.2	76.9	78.2	78.2	14.6	7.6
3	62.8	70.7	77.2	78.6	78.6	15.8	7.9
5	64.8	72.2	78.0	80.0	80.0	15.2	7.4
7	70.8	75.5	80.1	83.0	84.1	12.2	4.7
9	74.3	77.9	81.4	86.2	86.2	11.9	3.6
11	70.2	75.2	79.8	82.7	82.7	12.5	5.0
13	66.9	73.0	78.7	80.7	82.1	13.8	6.1
15	66.7	73.0	78.6	80.5	82.2	13.8	6.3
17	68.1	74.1	79.6	81.1	81.1	13.0	6.0
19	67.7	73.9	80.5	81.4	82.7	13.7	6.2
21	71.6	76.3	81.3	84.0	85.6	12.4	4.7
23	73.2	77.8	82.2	85.2	85.2	12.0	4.6
25	75.0	79.9	84.2	87.5	87.5	12.5	4.9
27	76.3	81.1	85.5	88.8	88.8	12.5	4.8
29	77.4	82.5	85.6	89.7	89.7	12.3	5.1
31	77.2	82.1	85.8	89.0	89.0	11.8	4.9
33	80.4	85.5	87.2	92.3	92.3	11.9	5.1
35	80.6	85.4	88.1	92.7	92.7	12.1	4.8
37	81.3	86.1	90.0	93.2	93.2	11.9	4.8
OH → 38 39	80.9	85.8	90.8	92.5	92.5	11.6	4.9
41	80.2	84.7	90.8	91.3	91.3	11.1	4.5
43	76.7	81.0	89.8	87.8	87.8	11.1	4.3
45	76.1	80.2	88.2	86.8	86.8	10.7	4.1
47	75.7	79.9	87.0	86.7	86.7	11.0	4.2

TABLE F-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 20, 6 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.5	77.0	84.6	84.3	85.3	13.8	6.5
2	71.1	77.5	84.8	84.7	85.8	13.6	6.4
3	72.3	78.0	84.9	85.4	86.5	13.1	5.7
4	74.2	79.2	85.2	86.5	87.7	12.3	5.0
5	75.2	79.9	85.6	87.3	87.3	12.1	4.7
6	75.8	80.5	86.0	88.0	88.0	12.2	4.7
7	76.0	80.9	86.8	88.2	89.9	12.2	4.9
8	75.9	81.2	87.9	88.3	90.2	12.4	5.3
9	75.4	81.2	88.4	88.6	90.1	13.2	5.8
10	75.3	81.0	88.6	88.7	88.7	13.4	5.7
11	75.1	81.0	88.9	88.6	88.6	13.5	5.9
12	75.4	81.5	89.0	88.9	88.9	13.5	6.1
13	76.1	82.5	89.2	89.7	89.7	13.6	6.4
14	78.7	84.3	89.2	91.3	91.3	12.6	5.6
15	79.2	84.9	89.4	92.0	92.0	12.8	5.7
16	79.8	85.4	89.6	92.6	92.6	12.8	5.6
17	80.3	86.0	89.9	92.9	92.9	12.6	5.7
18	80.9	86.7	90.1	93.5	93.5	12.6	5.8
19	81.4	87.2	90.1	94.0	94.0	12.6	5.8
20	81.3	87.0	89.8	94.2	94.2	12.9	5.7
OH → 21	81.9	87.6	90.0	94.6	94.6	12.7	5.7
22	82.5	88.1	90.9	95.3	95.3	12.8	5.6
23	83.5	89.1	92.3	96.0	96.0	12.5	5.6
24	84.1	89.8	93.4	96.4	96.4	12.3	5.7
25	84.2	90.1	93.9	96.7	96.7	12.5	5.9
26	84.6	90.4	94.0	97.0	97.0	12.4	5.8
27	84.1	89.7	93.2	96.3	96.3	12.2	5.6
28	83.4	89.0	92.2	95.8	95.8	12.4	5.6
29	81.4	87.2	90.4	94.3	94.3	12.9	5.8
30	80.1	85.9	89.2	93.0	93.0	12.9	5.8
31	78.7	84.4	87.5	91.4	91.4	12.7	5.7
32	77.9	83.4	86.3	90.6	90.6	12.7	5.5
33	76.6	82.4	85.0	89.4	89.4	12.8	5.8
34	75.3	80.9	83.6	88.0	88.0	12.7	5.6
35	75.1	80.2	82.6	87.5	87.5	12.4	5.1
36	74.8	79.6	81.9	87.2	88.5	12.4	4.8
37	73.9	78.6	81.0	86.3	86.3	12.4	4.7
38	71.8	76.8	80.0	84.3	84.3	12.5	5.0
39	70.3	75.8	79.2	83.0	83.0	12.7	5.5

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 26, 100 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.5	78.0	84.5	85.0	85.0	14.5	7.5
	2	71.4	78.4	84.1	85.5	85.5	14.1	7.0
	3	72.0	79.1	84.4	86.4	87.6	14.4	7.1
	4	73.6	79.7	85.3	87.5	87.5	13.9	6.1
	5	75.3	80.8	85.6	88.7	90.2	13.4	5.5
	6	76.7	81.5	86.0	89.2	91.0	12.5	4.8
	7	78.0	82.5	85.9	89.9	89.9	11.9	4.5
	8	79.4	83.5	86.0	90.6	90.6	11.2	4.1
	9	80.7	85.1	86.0	91.5	91.5	10.8	4.4
	10	81.5	85.8	85.8	91.9	91.9	10.4	4.3
	11	82.2	86.8	86.4	93.4	93.4	11.2	4.6
	12	83.4	87.6	87.4	94.5	94.5	11.1	4.2
	13	84.0	88.2	88.2	95.2	95.2	11.2	4.2
OH →	14	84.1	88.2	88.3	94.9	94.9	10.8	4.1
	15	83.6	87.8	88.2	94.5	94.5	10.9	4.2
	16	82.8	87.1	87.8	93.9	93.9	11.1	4.3
	17	82.0	86.1	87.2	93.0	93.0	11.0	4.1
	18	80.5	85.0	86.1	91.7	91.7	11.2	4.5
	19	79.3	83.8	85.5	90.7	90.7	11.4	4.5
	20	77.9	82.7	84.9	89.6	89.6	11.7	4.8
	21	77.2	82.0	84.4	89.0	89.0	11.8	4.8
	22	76.6	81.2	83.2	88.4	88.4	11.8	4.6
	23	75.3	80.3	82.4	87.5	87.5	12.2	5.0
	24	73.3	78.7	81.8	86.1	86.1	12.8	5.4
	25	70.9	77.6	81.2	84.5	84.5	13.6	6.7
	26	69.4	76.9	81.8	83.9	83.9	14.5	7.5
	27	69.6	77.3	82.4	84.0	85.2	14.4	7.7

TABLE F-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 27, 100 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	72.0	77.6	84.5	84.2	85.3	12.2	5.6
	2	72.2	78.0	84.3	84.7	84.7	12.5	5.8
	3	72.5	78.5	84.5	85.6	85.6	13.1	6.0
	4	73.1	78.9	84.6	86.0	86.0	12.9	5.8
	5	72.8	78.9	84.6	85.8	85.8	13.0	6.1
	6	73.9	80.4	84.3	86.7	88.2	12.8	6.5
	7	74.8	80.9	84.7	87.1	89.2	12.3	6.1
	8	76.2	81.6	85.2	88.2	89.3	12.0	5.4
	9	77.4	82.2	85.5	89.3	89.3	11.9	4.8
	10	78.6	83.6	86.2	90.5	90.5	11.9	5.0
	11	80.6	85.3	86.8	92.3	93.5	11.7	4.7
	12	82.4	86.9	87.6	93.9	94.9	11.5	4.5
	13	82.8	87.1	87.6	94.3	94.3	11.5	4.3
OH →	14	82.5	86.7	86.8	93.9	93.9	11.4	4.2
	15	81.7	85.9	86.0	93.2	93.2	11.5	4.2
	16	81.5	85.7	85.9	92.8	92.8	11.3	4.2
	17	81.2	85.1	85.9	92.1	92.1	10.9	3.9
	18	80.4	84.2	85.3	90.9	90.9	10.5	3.8
	19	79.3	83.0	84.4	89.5	89.5	10.2	3.7
	20	78.1	81.8	83.3	88.3	88.3	10.2	3.7
	21	76.7	80.2	82.5	87.0	87.0	10.3	3.5
	22	75.4	78.8	81.8	85.9	85.9	10.5	3.4
	23	73.5	77.3	80.9	84.3	84.3	10.8	3.8
	24	71.1	75.5	79.7	82.3	82.3	11.2	4.4
	25	69.6	74.3	78.9	80.9	80.9	11.3	4.7
	26	70.0	74.2	78.6	80.9	80.9	10.9	4.2

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 28, 100 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB, RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	66.6	73.1	83.7	79.0	80.8	12.4	6.5
	2	67.5	73.4	82.5	79.7	81.6	12.2	5.9
	3	69.0	74.5	82.4	81.0	81.0	12.0	5.5
	4	71.0	75.9	83.8	82.4	82.4	11.4	4.9
	5	71.2	76.2	84.2	82.7	82.7	11.5	5.0
	6	72.4	77.0	84.6	83.9	83.9	11.5	4.6
	7	72.6	77.2	84.2	84.5	84.5	11.9	4.6
	8	73.2	77.7	84.5	85.1	86.8	11.9	4.5
	9	74.1	78.7	84.7	85.9	88.1	11.8	4.6
	10	74.8	79.7	85.0	87.1	88.2	12.3	4.9
	11	75.3	80.3	85.1	87.9	87.9	12.6	5.0
	12	75.7	80.6	84.8	88.0	88.0	12.3	4.9
	13	76.5	81.5	85.9	88.7	88.7	12.2	5.0
	14	77.8	82.8	86.4	89.5	89.5	11.7	5.0
	15	80.0	85.1	87.1	91.8	91.8	11.8	5.1
	16	80.6	85.7	86.6	92.4	92.4	11.8	5.1
	17	81.0	85.9	86.5	92.5	92.5	11.5	4.9
OH →	18	80.5	85.3	86.3	91.9	91.9	11.4	4.8
	19	80.5	84.8	86.3	91.8	91.8	11.3	4.3
	20	79.6	83.9	86.1	91.0	91.0	11.4	4.3
	21	78.6	82.6	85.5	89.5	89.5	10.9	4.0
	22	77.5	81.6	85.3	88.2	88.2	10.7	4.1
	23	76.6	80.3	84.5	86.9	86.9	10.3	3.7
	24	75.3	79.3	83.7	85.9	85.9	10.6	4.0
	25	73.8	77.7	82.0	84.8	84.8	11.0	3.9
	26	72.3	76.4	80.8	83.6	83.6	11.3	4.1
	27	70.8	74.9	79.8	81.7	81.7	10.9	4.1
	28	68.9	73.2	78.9	80.3	80.3	11.4	4.3
	29	68.5	72.9	79.2	79.7	79.7	11.2	4.4
	30	69.2	73.6	79.6	80.5	81.5	11.3	4.4

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 31, 3 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.6	76.9	84.7	84.9	84.9	15.3	7.3
2	70.8	77.7	84.7	85.7	85.7	14.9	6.9
3	73.5	78.8	83.9	87.0	87.0	13.5	5.3
4	76.8	81.6	84.5	89.6	89.6	12.8	4.8
5	77.9	82.6	85.3	90.5	90.5	12.6	4.7
6	77.8	82.9	85.4	90.5	90.5	12.7	5.1
7	77.0	82.3	84.9	89.6	89.6	12.6	5.3
8	80.7	85.0	86.9	91.6	91.6	10.9	4.3
9	82.9	87.4	89.1	94.0	95.4	11.1	4.5
10	84.6	89.1	90.4	95.5	95.5	10.9	4.5
11	84.6	89.4	90.8	96.3	96.3	11.7	4.8
12	85.0	90.0	91.0	96.7	96.7	11.7	5.0
13	86.6	91.2	91.7	97.8	97.8	11.2	4.6
14	86.2	91.0	91.3	97.9	97.9	11.7	4.8
15	85.9	90.8	91.2	97.7	97.7	11.8	4.9
16	83.9	89.2	90.6	96.1	96.1	12.2	5.3
17	84.3	89.4	91.2	96.2	96.2	11.9	5.1
CH → 18	84.1	88.9	91.9	96.0	96.0	11.9	4.8
19	84.6	89.4	92.7	96.4	96.4	11.8	4.8
20	84.8	89.4	93.1	96.3	96.3	11.5	4.6
21	83.9	88.5	92.9	95.4	95.4	11.5	4.6
22	82.3	86.8	92.1	93.7	93.7	11.4	4.5
23	79.8	84.6	90.8	91.4	91.4	11.6	4.8
24	78.4	83.5	89.3	90.5	90.5	12.1	5.1
25	77.3	82.7	88.6	89.7	89.7	12.4	5.4
26	76.9	82.6	88.0	89.7	89.7	12.8	5.7
27	76.0	82.1	87.0	89.3	89.3	13.3	6.1
28	74.7	81.3	85.3	88.4	88.4	13.7	6.6
29	72.7	79.4	83.7	86.1	86.1	13.4	6.7

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.4	76.0	81.9	82.4	83.9	12.0	5.6
	2	71.8	76.7	82.0	83.5	84.5	11.7	4.9
	3	73.6	78.0	82.3	84.8	86.5	11.2	4.4
	4	76.0	80.1	82.9	87.0	87.0	11.0	4.1
	5	80.5	83.7	85.4	90.6	90.6	10.1	3.2
	6	82.1	85.6	86.5	92.2	92.2	10.1	3.5
	7	84.1	87.7	87.9	94.4	94.4	10.3	3.6
	8	84.2	88.4	87.9	95.0	95.0	10.8	4.2
	9	84.8	89.2	88.5	96.0	96.0	11.2	4.4
OH →	10	84.7	89.0	88.4	96.2	96.2	11.5	4.3
	11	84.7	88.8	88.7	96.1	96.1	11.4	4.1
	12	83.3	87.1	87.6	94.5	94.5	11.2	3.8
	13	81.5	85.7	86.2	92.8	92.8	11.3	4.2
	14	80.1	84.2	84.9	91.4	91.4	11.3	4.1
	15	80.1	83.9	84.3	91.0	91.0	10.9	3.8
	16	79.2	82.8	83.6	89.7	89.7	10.5	3.6
	17	77.2	80.9	81.7	87.8	87.8	10.6	3.7
	18	74.9	78.8	80.6	85.7	85.7	10.8	3.9
	19	73.4	77.4	80.2	84.2	84.2	10.8	4.0
	20	72.2	76.4	79.6	83.0	83.0	10.8	4.2
	21	71.5	75.7	78.6	82.1	82.1	10.6	4.2

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	67.1	72.5	81.3	79.3	80.5	12.2	5.4
	2	66.1	72.2	81.5	79.0	79.0	12.9	6.1
	3	69.1	74.5	82.0	81.4	81.4	12.3	5.4
	4	71.8	76.6	83.4	83.5	83.5	11.7	4.8
	5	72.9	77.6	84.4	84.3	84.3	11.4	4.7
	6	73.2	77.8	84.5	85.1	85.1	11.9	4.6
	7	72.7	77.5	84.3	85.0	85.0	12.3	4.8
	8	72.0	76.9	83.9	84.4	85.6	12.4	4.9
	9	72.1	77.1	84.1	83.9	83.9	11.8	5.0
	10	72.5	77.9	84.4	84.5	85.7	12.0	5.4
	11	73.8	79.3	84.7	85.6	87.5	11.8	5.5
	12	75.9	80.9	84.8	87.4	87.4	11.5	5.0
	13	77.1	81.8	84.7	88.4	88.4	11.3	4.7
	14	78.3	82.8	85.3	89.5	89.5	11.2	4.5
	15	78.9	83.5	86.0	90.2	90.2	11.3	4.6
	16	80.3	84.9	87.2	91.6	91.6	11.3	4.6
	17	80.7	85.4	87.3	92.1	92.1	11.4	4.7
	18	80.9	85.7	87.0	92.5	92.5	11.6	4.8
OH →	19	80.5	85.4	86.1	92.3	92.3	11.8	4.9
	20	80.5	85.3	86.3	92.2	92.2	11.7	4.8
	21	80.5	85.2	86.5	92.0	92.0	11.5	4.7
	22	79.9	84.3	86.4	91.2	91.2	11.3	4.4
	23	78.7	83.0	85.2	89.9	89.9	11.2	4.3
	24	77.7	81.6	84.2	88.7	88.7	11.0	3.9
	25	77.0	80.4	83.4	87.6	87.6	10.6	3.4
	26	76.3	79.8	82.9	87.0	87.0	10.7	3.5
	27	75.2	79.0	82.2	86.2	86.2	11.0	3.8
	28	74.7	78.7	81.8	85.9	85.9	11.2	4.0
	29	74.5	78.4	81.3	85.8	85.8	11.3	3.9
	30	73.9	77.8	81.1	85.0	85.0	11.1	3.9
	31	72.8	76.6	80.6	83.8	83.8	11.0	3.8
	32	70.8	74.8	80.4	82.1	82.1	11.3	4.0
	33	68.4	73.0	80.0	80.2	81.4	11.8	4.6
	34	66.7	72.3	81.2	79.4	79.4	12.7	5.6
	35	66.0	72.7	83.0	79.8	81.3	13.8	6.7

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.5	75.7	81.7	83.5	86.4	13.0	5.2
	2	72.7	77.7	81.8	85.3	88.0	12.6	5.0
	3	73.4	78.3	81.3	85.9	88.4	12.5	4.9
	4	73.2	78.0	81.1	85.8	88.4	12.6	4.8
	5	75.2	79.5	81.3	86.7	88.9	11.5	4.3
	6	76.8	80.7	82.3	87.4	88.6	10.6	3.9
	7	77.1	81.2	82.5	87.5	89.0	10.4	4.1
	8	78.2	82.1	82.9	88.4	88.4	10.2	3.9
	9	79.9	83.8	83.5	89.8	89.8	9.9	3.9
	10	81.2	84.9	85.3	91.1	91.1	9.9	3.7
	11	82.5	86.4	86.7	92.7	92.7	10.2	3.9
	12	83.3	87.6	87.8	94.3	94.3	11.0	4.3
OH →	13	83.5	87.8	87.7	94.9	94.9	11.4	4.3
	14	83.0	87.5	87.6	94.7	94.7	11.7	4.5
	15	82.3	86.8	87.3	94.0	94.0	11.7	4.5
	16	81.5	86.0	86.8	93.1	93.1	11.6	4.5
	17	80.4	84.8	85.9	91.9	91.9	11.5	4.4
	18	79.0	83.0	84.7	90.2	90.2	11.2	4.0
	19	78.0	82.0	83.9	88.9	88.9	10.9	4.0
	20	76.2	80.3	82.7	86.9	86.9	10.7	4.1
	21	74.7	78.9	81.8	85.8	85.8	11.1	4.2
	22	73.6	78.1	80.8	85.0	85.0	11.4	4.5
	23	73.0	77.4	79.7	83.9	83.9	10.9	4.4
	24	72.5	76.6	78.4	83.2	83.2	10.7	4.1
	25	73.0	76.5	78.7	83.2	84.3	10.2	3.5
	26	73.5	76.7	78.9	83.2	84.3	9.7	3.2
	27	72.7	76.0	79.3	82.2	82.2	9.5	3.3
	28	70.3	74.1	80.6	80.6	81.7	10.3	3.8
	29	66.3	71.3	81.4	78.1	79.2	11.8	5.0

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.4	68.2	79.3	75.0	75.0	13.6	6.8
2	65.4	70.8	78.7	77.8	77.8	12.4	5.4
3	68.4	73.0	78.9	79.7	80.7	11.3	4.6
4	71.4	76.2	79.3	82.7	84.6	11.3	4.8
5	71.6	76.4	80.0	83.0	84.9	11.4	4.8
6	72.6	77.5	80.3	84.2	85.9	11.6	4.9
7	73.6	78.3	80.7	85.2	85.2	11.6	4.7
8	75.7	80.8	81.1	87.5	87.5	11.8	5.1
9	77.2	82.1	81.9	88.8	88.8	11.6	4.9
10	78.7	83.7	83.0	90.0	91.0	11.3	5.0
11	80.3	85.1	84.9	91.6	91.6	11.3	4.8
12	81.0	85.7	85.7	92.3	92.3	11.3	4.7
OH → 13	80.9	85.4	86.2	92.2	92.2	11.3	4.5
14	80.7	85.3	86.4	92.0	92.0	11.3	4.6
15	80.5	85.1	86.4	91.8	91.8	11.3	4.6
16	80.1	84.6	85.8	91.4	91.4	11.3	4.5
17	79.1	83.2	84.5	90.0	90.0	10.9	4.1
18	77.9	81.9	83.2	88.7	88.7	10.8	4.0
19	76.9	80.9	82.0	87.5	87.5	10.6	4.0
20	75.4	79.7	80.7	85.8	85.8	10.4	4.3
21	74.2	78.4	79.9	84.8	84.8	10.6	4.2
22	72.9	76.9	78.7	83.4	83.4	10.5	4.0
23	71.7	75.4	77.7	82.1	82.1	10.4	3.7
24	70.5	74.2	76.5	81.1	81.1	10.6	3.7
25	68.7	72.3	75.5	79.6	79.6	10.9	3.6
26	66.8	70.6	74.2	77.9	77.9	11.1	3.8
27	64.5	68.6	73.2	76.5	76.5	12.0	4.1

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	64.9	71.6	81.8	78.3	79.6	13.4	6.7
	2	67.2	73.1	82.8	79.8	80.9	12.6	5.9
	3	68.3	73.8	82.7	80.5	80.5	12.2	5.5
	4	69.0	74.3	82.7	81.3	82.6	12.3	5.3
	5	69.1	74.5	81.8	81.6	83.7	12.5	5.4
	6	70.5	75.4	82.2	82.8	85.0	12.3	4.9
	7	73.3	78.2	83.0	85.1	86.2	11.8	4.9
	8	75.3	79.9	83.7	87.0	87.0	11.7	4.6
	9	75.9	80.2	83.4	87.5	87.5	11.6	4.3
	10	75.7	79.8	82.9	87.3	87.3	11.6	4.1
	11	75.4	79.9	82.7	87.0	87.0	11.6	4.5
	12	76.1	81.0	83.8	87.5	88.8	11.4	4.9
OH →	13	77.3	82.1	84.8	89.0	89.0	11.7	4.8
	14	78.2	82.9	85.4	90.1	90.1	11.9	4.7
	15	78.8	83.4	85.5	90.6	90.6	11.8	4.6
	16	78.7	83.4	85.8	90.6	90.6	11.9	4.7
	17	78.4	83.0	85.8	90.3	90.3	11.9	4.6
	18	77.5	82.1	85.2	89.7	89.7	12.2	4.6
	19	76.8	81.1	84.3	88.2	88.2	11.4	4.3
	20	75.6	79.9	83.2	87.0	87.0	11.4	4.3
	21	74.6	78.5	82.9	85.7	85.7	11.1	3.9
	22	72.9	77.1	82.2	84.2	84.2	11.3	4.2
	23	71.6	76.2	81.5	83.1	83.1	11.5	4.6
	24	70.8	75.4	80.4	82.8	82.8	12.0	4.6
	25	69.6	74.1	79.5	81.7	81.7	12.1	4.5
	26	67.8	72.5	78.5	80.3	80.3	12.5	4.7
	27	67.0	71.5	77.4	79.3	79.3	12.3	4.5
	28	66.5	71.2	77.2	78.9	78.9	12.4	4.7

TABLE F-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB, RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.4	73.9	79.9	80.4	81.8	11.0	4.5
2	69.0	73.8	79.6	80.2	81.3	11.2	4.8
3	68.6	73.8	79.4	80.6	82.0	12.0	5.2
4	70.1	74.8	78.9	82.0	83.5	11.9	4.7
5	74.4	78.7	79.7	85.1	85.1	10.7	4.3
6	77.9	82.0	81.6	88.1	88.1	10.2	4.1
7	79.9	84.2	83.8	90.5	90.5	10.6	4.3
OH → 8	80.5	85.2	84.8	91.6	91.6	11.1	4.7
9	80.4	85.5	85.3	91.9	91.9	11.5	5.1
10	80.0	85.3	85.4	91.9	91.9	11.9	5.3
11	80.3	85.5	85.9	92.0	92.0	11.7	5.2
12	80.5	85.3	86.4	91.9	91.9	11.4	4.8
13	80.0	84.6	86.6	91.6	91.6	11.6	4.6
14	78.9	83.3	86.1	90.8	90.8	11.9	4.4
15	77.8	82.3	85.0	89.3	89.3	11.5	4.5
16	77.1	81.3	83.4	88.3	88.3	11.2	4.2
17	76.1	80.0	82.0	87.0	87.0	10.9	3.9
18	73.9	77.7	81.3	84.4	84.4	10.5	3.8
19	71.9	75.9	80.9	82.9	82.9	11.0	4.0
20	69.4	73.5	79.8	80.8	80.8	11.4	4.1
21	68.1	72.4	78.3	79.7	79.7	11.6	4.3
22	67.2	71.5	77.6	79.0	79.0	11.8	4.3
23	65.7	70.4	77.4	77.6	77.6	11.9	4.7

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.5	-2.5	-1.5	-.5	0	.5	1.5	2.5	3.5	5.0
17	65.8	66.1	66.8	69.4	70.5	71.9	69.8	66.4	64.1	61.9
18	68.8	71.7	70.0	72.5	72.2	70.1	66.1	65.4	65.7	64.8
19	65.0	63.1	63.6	64.7	65.3	64.8	61.0	61.9	64.0	66.5
20	64.3	63.2	61.6	63.0	68.1	71.5	71.8	63.1	65.5	69.4
21	69.8	68.7	67.5	68.8	72.2	73.0	70.6	66.8	62.3	60.3
22	59.2	57.7	65.6	71.9	74.4	75.8	74.5	70.7	67.8	60.2
23	54.9	61.2	70.7	75.2	76.8	78.6	78.4	74.9	72.8	65.1
24	65.6	68.7	77.1	80.5	79.9	78.9	74.1	70.4	71.8	69.1
25	65.5	66.4	70.3	69.1	69.6	72.0	72.4	67.7	67.4	67.5
26	68.8	68.3	69.5	73.8	76.5	77.7	77.8	76.2	73.0	63.0
27	65.2	65.2	74.4	75.8	75.9	75.8	74.7	73.2	74.0	67.4
28	67.0	71.1	74.2	77.0	78.3	78.7	75.4	72.8	69.5	65.0
29	67.0	66.6	73.4	74.5	75.8	76.6	73.8	71.3	68.7	64.8
30	62.1	67.3	71.9	74.0	74.8	75.4	72.6	68.9	67.0	62.8
31	62.2	65.4	69.7	71.7	72.7	73.3	70.5	67.0	65.4	62.3
32	60.7	64.3	68.3	71.2	72.2	72.3	69.1	65.7	63.0	60.8
33	58.3	62.1	65.9	69.0	70.1	70.1	66.4	63.3	59.7	56.7
34	56.5	58.6	62.9	65.5	66.7	66.6	63.9	60.5	56.9	52.7
35	52.1	55.5	60.1	63.2	64.3	64.0	60.6	57.2	53.5	49.0
36	46.1	49.6	55.2	58.9	59.9	59.5	56.6	52.9	49.3	45.4
37	45.0	45.0	48.5	52.7	54.4	54.3	51.4	48.0	45.1	45.0
38	45.0	45.0	45.0	46.8	47.6	47.7	45.8	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	73.2	75.5	79.8	82.5	83.5	83.9	81.6	78.6	77.0	72.3
D	77.1	79.0	83.9	86.4	87.4	87.7	85.4	82.5	80.5	76.5
OASPL	82.2	83.6	86.2	88.4	89.2	89.3	86.4	83.3	81.8	78.5
PNL	84.1	86.2	90.4	93.3	94.1	94.6	92.6	90.0	88.0	83.4
PNLT	84.1	87.9	90.4	93.3	94.1	94.6	92.6	90.0	88.0	83.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.0	5.5
17	64.0	65.0	69.3	68.7	69.7	69.2	66.0	65.4	67.4
18	68.3	66.9	68.4	70.9	70.3	68.0	65.5	67.1	68.5
19	61.7	63.5	66.3	63.0	63.2	63.0	63.2	64.9	66.3
20	59.2	60.2	62.7	66.5	70.1	75.6	67.6	64.3	66.1
21	70.9	69.6	69.2	74.4	75.6	74.2	69.2	66.4	64.6
22	58.1	56.8	63.3	69.0	71.1	73.7	71.3	64.7	58.7
23	50.8	56.6	68.7	72.1	72.9	74.7	75.1	70.5	63.0
24	60.2	67.4	73.6	76.7	75.7	69.9	67.6	67.1	66.3
25	59.7	64.4	67.4	67.6	69.1	72.3	71.5	63.6	66.2
26	64.9	66.7	65.8	74.1	74.2	71.8	74.1	69.3	64.4
27	60.3	61.4	70.4	75.0	77.0	77.7	73.2	67.7	66.8
28	59.4	68.6	70.9	77.3	76.4	71.8	69.4	66.1	65.1
29	63.0	65.8	67.2	72.5	73.0	72.2	69.6	65.1	64.7
30	58.7	64.5	67.6	71.9	71.9	71.3	68.0	63.7	62.2
31	60.9	61.7	65.8	69.9	70.0	69.2	66.0	62.2	61.0
32	57.2	60.9	65.4	69.4	69.5	68.7	64.4	60.3	58.8
33	56.1	58.6	63.3	66.2	66.6	65.8	61.7	57.0	54.8
34	52.5	55.7	61.3	64.3	64.6	62.5	59.1	54.4	52.3
35	48.2	51.8	57.6	62.0	62.0	60.0	56.2	51.6	48.9
36	45.0	46.0	54.1	57.8	57.9	56.2	52.3	47.9	45.2
37	45.0	45.0	48.0	52.2	52.7	50.8	47.8	45.0	45.0
38	45.0	45.0	45.0	45.5	46.0	45.4	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	69.4	73.0	76.6	80.9	80.9	79.7	77.5	73.2	71.6
D	73.9	76.9	80.7	84.6	85.0	84.2	81.6	77.3	75.6
OASPL	80.7	81.1	82.8	85.9	86.3	86.3	83.7	80.3	80.3
PNL	80.7	83.7	87.6	92.1	92.3	92.0	88.9	84.6	82.8
PNLT	82.1	85.4	87.6	93.3	92.3	92.0	88.9	84.6	82.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.5
17	65.8	65.4	66.0	65.4	67.3	69.5	68.2	66.7	64.5
18	69.3	67.4	68.3	67.2	66.8	63.8	64.3	62.4	60.4
19	65.4	66.5	65.5	65.3	64.4	61.5	61.9	61.1	62.7
20	64.6	66.6	66.6	62.3	69.2	75.9	72.4	60.9	66.7
21	72.6	71.8	71.1	64.4	73.4	73.7	70.2	65.4	54.6
22	62.1	58.3	60.8	66.7	72.5	74.2	73.2	69.8	61.0
23	57.6	59.1	67.6	72.5	74.9	76.4	76.2	75.0	67.3
24	63.1	68.3	73.6	77.6	78.3	73.8	69.6	70.2	66.6
25	61.6	67.0	70.4	68.4	68.9	73.6	72.9	67.8	64.6
26	63.4	67.2	69.0	70.8	75.3	75.7	76.7	75.8	64.1
27	62.7	63.3	69.0	74.0	75.3	77.5	75.9	71.7	67.6
28	60.3	69.5	73.4	73.8	75.9	74.1	72.1	71.6	64.4
29	62.2	67.2	67.7	71.8	74.2	73.5	71.1	69.5	63.9
30	60.1	64.9	69.0	71.9	73.8	72.4	69.7	66.8	60.7
31	57.9	62.7	67.3	70.0	71.6	70.3	67.8	65.2	59.6
32	57.8	63.1	67.2	68.1	69.8	69.8	67.1	63.4	58.4
33	56.7	60.3	65.3	66.1	67.2	67.4	64.7	60.6	55.1
34	53.0	58.1	62.7	63.6	65.1	65.2	63.0	58.6	51.0
35	49.6	54.3	59.0	61.2	62.1	61.8	59.6	55.8	48.1
36	45.0	50.2	54.4	56.8	57.9	58.0	55.4	51.5	45.5
37	45.0	45.5	49.3	50.3	52.8	52.6	49.9	47.0	45.0
38	45.0	45.0	45.0	45.1	46.5	47.3	45.6	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	69.3	74.4	77.7	79.8	81.5	81.4	79.7	77.3	71.3
D	74.8	78.8	82.2	83.8	85.4	85.6	84.1	81.5	75.1
OASPL	81.7	83.4	85.5	86.5	87.1	86.5	84.9	82.8	78.8
PNL	81.7	85.3	88.8	90.7	92.4	92.9	91.3	89.0	82.6
PNLT	81.7	86.7	90.5	90.7	92.4	92.9	91.3	89.0	82.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.0	5.5
17	64.8	64.7	64.9	68.2	69.6	68.6	67.4	66.5	61.8
18	70.0	68.8	67.1	68.8	68.6	67.3	66.9	65.7	64.8
19	66.8	63.9	64.2	65.2	64.4	60.9	62.8	62.0	64.2
20	64.5	64.2	67.1	63.5	66.3	66.3	63.8	64.5	65.9
21	71.2	74.5	73.7	69.2	68.7	68.7	65.7	63.8	60.8
22	58.7	57.4	59.6	67.6	69.4	70.9	66.5	60.5	54.7
23	52.7	55.2	63.9	71.1	72.6	76.7	74.6	68.6	59.0
24	55.9	66.2	71.6	74.4	74.2	73.2	72.3	68.3	64.2
25	59.5	64.8	67.4	68.4	66.9	67.2	66.3	66.3	66.1
26	63.0	68.6	65.9	72.3	73.5	74.9	72.1	63.6	65.5
27	62.4	60.2	70.5	75.6	74.6	71.3	71.5	69.4	60.4
28	58.4	67.6	70.2	72.9	73.8	74.5	72.2	67.2	63.5
29	61.2	67.5	69.9	74.2	74.3	74.4	70.4	68.0	59.1
30	59.2	67.4	69.9	73.9	73.8	72.4	70.3	65.7	61.1
31	59.4	66.0	69.1	72.3	71.9	71.1	68.8	65.1	59.1
32	58.2	66.3	68.7	71.9	71.6	70.0	67.0	64.2	57.9
33	55.3	63.5	65.0	68.9	68.7	67.6	63.5	59.8	53.3
34	51.0	59.7	62.5	66.2	66.1	64.7	60.3	56.0	49.1
35	47.9	56.2	58.0	62.5	62.6	61.2	56.8	51.5	46.3
36	45.0	47.2	52.9	58.3	58.3	56.8	52.1	46.6	45.0
37	45.0	45.0	46.8	51.8	51.8	51.1	47.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.2	45.7	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	68.9	75.4	77.8	81.5	81.6	80.9	78.1	74.3	69.3
D	74.2	79.8	82.2	85.5	85.6	85.1	82.3	78.4	74.2
OASPL	78.5	80.7	82.6	85.0	84.7	84.6	82.7	79.0	75.7
PNL	80.5	86.4	88.9	92.2	92.2	91.4	88.7	85.2	81.0
PNLT	80.5	87.6	88.9	92.2	92.2	91.4	88.7	85.2	82.2

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.5	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	5.5	6.0
17	64.1	67.7	66.2	66.3	67.0	67.6	66.8	64.6	61.1	61.3
18	71.7	74.3	71.7	68.6	68.3	67.4	67.6	70.6	68.4	66.0
19	65.1	68.8	67.3	65.2	63.1	63.3	63.0	62.5	63.2	61.9
20	61.5	65.4	64.3	61.9	60.2	61.3	62.1	65.4	67.3	66.7
21	68.1	74.2	74.7	68.3	68.0	68.8	72.0	75.9	74.6	73.7
22	59.6	61.2	60.2	58.6	66.0	68.4	67.6	65.1	65.1	64.5
23	58.6	59.5	57.4	63.5	71.8	72.6	75.1	70.9	61.3	59.7
24	56.0	56.4	63.1	70.3	75.6	75.1	71.4	70.0	64.0	61.2
25	51.6	58.5	59.8	66.3	67.2	66.3	63.2	66.1	67.3	65.4
26	55.0	65.4	66.3	62.4	70.8	73.4	72.4	66.9	66.5	65.5
27	56.9	66.9	61.7	67.2	74.7	74.6	69.3	70.5	61.8	59.7
28	57.8	65.2	61.1	69.6	72.9	74.2	71.8	66.8	64.7	61.4
29	53.3	64.1	61.5	65.9	73.6	74.4	71.4	67.1	62.2	60.3
30	56.5	66.0	62.0	65.5	74.1	74.5	69.3	65.0	62.2	59.1
31	54.8	63.4	63.8	65.6	72.8	73.3	68.0	63.2	61.6	58.3
32	55.4	63.1	62.8	64.9	71.0	70.9	66.9	60.8	58.3	55.1
33	51.3	60.0	59.9	61.6	67.4	67.8	63.5	57.6	54.3	51.3
34	46.3	56.0	55.4	59.3	64.2	64.1	60.1	53.8	50.2	47.8
35	45.0	49.4	51.8	54.7	61.4	60.9	57.0	51.1	46.8	45.2
36	45.0	45.0	45.3	49.8	57.1	56.1	52.2	46.9	45.0	45.0
37	45.0	45.0	45.0	45.0	50.4	49.9	47.4	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	63.8	73.3	71.6	75.1	81.4	81.7	78.2	74.4	71.6	69.1
D	71.6	77.8	77.2	79.1	85.1	85.4	82.2	79.0	76.7	75.0
OASPL	78.7	82.7	81.4	80.9	84.9	85.1	83.7	81.3	78.6	77.4
PNL	77.8	84.3	83.7	85.9	91.5	91.7	88.6	85.9	83.1	81.5
PNLT	77.8	84.3	83.7	87.0	91.5	91.7	88.6	85.9	83.1	81.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.5	-7.0	-5.5	-4.0	-2.5	-1.0	0	.5	2.0	4.0
17	65.8	63.4	62.1	63.7	65.6	66.9	67.9	67.7	62.2	61.6
18	70.1	70.3	66.3	65.7	66.7	63.7	63.5	63.1	60.7	60.7
19	66.0	67.0	64.3	66.1	65.7	62.7	63.0	63.4	63.1	63.7
20	61.6	64.6	65.3	65.7	64.4	63.1	63.8	65.3	67.1	69.1
21	67.4	74.7	74.0	75.0	70.9	63.7	63.5	62.6	55.7	62.5
22	58.6	61.0	59.2	56.7	64.9	68.5	69.6	68.6	60.2	58.1
23	51.2	56.4	52.6	64.5	70.5	75.7	77.2	76.7	69.4	55.7
24	49.3	54.1	63.0	71.8	75.2	76.0	76.7	76.7	71.4	61.9
25	52.9	60.6	62.9	71.2	71.0	68.3	68.3	70.6	69.6	66.4
26	56.4	66.9	68.5	70.6	68.2	74.7	77.0	76.4	65.4	66.7
27	60.5	67.1	62.6	68.7	75.2	73.7	75.6	76.5	70.0	62.7
28	60.7	65.9	64.4	73.0	72.3	73.9	76.8	76.7	69.4	63.3
29	55.8	66.8	69.3	70.7	74.0	73.1	75.4	75.7	69.5	64.3
30	60.1	66.9	64.5	71.3	73.0	72.8	75.0	75.3	66.9	60.9
31	55.8	64.5	65.9	71.0	71.3	71.8	74.0	74.0	66.3	59.8
32	57.6	61.9	64.4	70.2	69.6	69.7	72.7	72.5	64.5	58.0
33	54.8	59.7	61.8	68.3	67.4	67.1	69.3	68.9	60.3	53.6
34	50.5	56.2	58.0	66.3	65.0	64.8	65.8	65.3	56.7	50.3
35	46.7	51.9	53.4	62.8	62.1	60.9	61.2	60.5	52.3	46.4
36	45.0	45.0	46.5	56.8	57.5	56.0	56.2	55.4	48.1	45.0
37	45.0	45.0	45.0	49.5	50.7	50.5	51.1	50.2	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.2	45.6	45.5	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	66.4	73.6	74.4	79.9	80.7	81.0	83.0	83.1	76.3	70.7
D	73.0	77.8	78.5	84.8	84.6	85.2	86.7	86.6	79.6	75.2
OASPL	79.7	80.4	80.1	83.9	84.7	84.9	86.5	86.2	79.8	76.5
PNL	79.1	84.0	85.1	90.7	91.0	91.2	93.2	93.1	86.0	81.8
PNLT	80.5	84.0	86.6	91.8	91.0	91.2	93.2	93.1	86.0	81.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 16, 9 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.5	-13.5	-10.5	-7.5	-4.5	-1.5	0	.5	1.5	4.5	6.0
17	63.5	65.4	66.6	65.6	67.4	68.0	71.4	71.6	70.4	68.9	66.2
18	65.2	69.0	69.1	69.7	69.5	70.8	68.9	68.3	64.0	66.1	65.0
19	61.1	62.4	63.1	62.8	65.9	62.8	63.4	64.5	65.4	65.4	63.6
20	59.7	60.1	61.3	60.5	59.7	65.3	74.1	76.7	78.4	63.2	66.6
21	69.1	70.3	70.2	69.9	59.0	77.5	80.4	80.9	80.2	63.8	60.6
22	54.1	56.0	53.8	53.0	59.4	71.1	74.1	75.2	78.4	70.4	55.6
23	51.8	51.2	54.5	60.8	64.8	70.4	72.3	71.9	72.4	73.0	62.1
24	63.4	62.7	65.9	74.7	76.3	73.9	71.3	74.3	76.1	71.6	65.6
25	64.2	61.8	63.3	67.4	62.8	68.4	75.2	75.3	74.6	66.0	66.2
26	70.2	66.7	70.0	68.7	62.9	74.6	73.4	74.0	74.5	67.1	63.5
27	67.6	61.2	60.4	61.7	66.2	69.6	73.5	72.9	73.6	67.3	61.3
28	58.2	54.1	56.8	66.6	58.1	67.8	72.9	73.2	74.1	66.3	62.9
29	60.2	59.6	58.9	60.6	61.5	68.7	72.0	72.1	72.5	66.7	62.0
30	56.5	57.3	54.8	63.3	61.0	68.7	70.4	70.3	70.4	64.3	61.0
31	57.1	58.8	54.9	62.4	59.9	67.2	69.3	68.9	69.0	63.7	60.0
32	55.9	56.6	54.6	62.3	60.4	66.6	68.4	68.4	68.0	62.9	59.7
33	49.8	54.4	52.6	60.7	60.2	64.2	67.4	67.4	65.8	59.8	57.1
34	45.4	50.6	49.1	58.1	58.5	63.9	66.6	65.8	63.5	58.8	55.4
35	45.0	45.3	45.1	54.2	55.9	63.7	63.9	63.6	62.3	56.9	53.1
36	45.0	45.0	45.0	49.7	53.9	60.3	61.3	61.5	60.0	53.5	49.3
37	45.0	45.0	45.0	45.0	47.0	55.2	57.6	57.9	57.4	49.8	45.2
38	45.0	45.0	45.0	45.0	45.0	50.0	53.7	54.5	54.6	46.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.3	48.9	49.7	50.3	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.4	46.2	45.0	45.0
A	69.6	68.1	68.3	73.2	72.4	77.7	80.0	79.9	80.4	74.4	70.5
D	74.4	73.9	74.5	78.6	78.8	83.5	85.5	85.4	85.3	79.6	75.4
OASPL	79.7	82.7	84.1	85.9	88.5	93.0	89.2	88.3	88.3	83.5	79.8
PNL	82.2	80.9	82.1	85.9	86.2	90.4	92.6	92.7	92.4	86.3	82.1
PNLT	82.2	82.2	83.1	87.8	86.2	90.4	92.6	92.7	92.4	86.3	82.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 18, 60 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.0	-13.5	-10.0	-6.5	-3.0	-1.0	0	.5	4.0	7.5	8.0
17	62.1	61.4	65.3	64.9	70.2	69.7	68.6	68.7	68.0	72.2	71.3
18	63.0	61.0	62.1	71.0	76.8	70.3	64.4	62.7	59.8	64.3	64.2
19	62.4	63.8	64.6	69.5	71.1	63.9	59.9	62.4	56.1	61.9	62.2
20	63.5	61.9	63.0	65.6	63.0	68.2	74.9	77.7	65.0	60.7	61.6
21	66.6	69.2	69.6	71.1	67.0	75.3	76.5	76.7	67.8	56.4	59.6
22	60.4	61.7	59.1	58.7	69.4	71.1	70.4	70.2	69.7	60.3	59.7
23	61.7	62.3	56.9	61.3	72.0	71.3	68.4	67.6	69.6	62.9	61.7
24	64.6	63.1	57.8	70.3	76.0	72.8	67.5	67.8	64.3	63.3	63.3
25	64.7	68.7	61.5	69.5	65.1	71.3	71.4	71.0	71.3	63.6	64.4
26	65.1	77.3	66.9	73.0	69.9	71.0	69.4	69.6	68.4	61.2	60.1
27	64.9	76.2	66.1	64.9	71.4	71.3	72.7	72.1	70.9	65.8	63.6
28	60.1	70.4	57.8	68.0	69.6	71.9	73.0	72.9	69.8	62.1	60.9
29	55.6	61.6	61.3	66.1	71.5	72.0	72.8	72.7	69.0	63.8	61.5
30	53.8	66.4	61.0	65.6	70.8	73.1	72.4	71.8	67.3	61.3	59.0
31	51.9	60.7	59.8	64.5	69.3	71.2	71.3	70.3	66.8	63.1	60.3
32	48.9	58.7	57.3	64.8	68.8	69.7	69.8	69.2	65.2	62.4	59.1
33	45.1	55.8	54.8	61.8	66.6	67.1	67.3	66.8	61.4	57.6	54.5
34	45.0	49.6	51.5	58.3	65.1	65.6	65.4	64.4	59.1	53.4	50.9
35	45.0	45.0	46.0	54.7	63.9	62.7	61.9	61.3	56.9	50.5	47.6
36	45.0	45.0	45.0	49.4	59.5	57.8	57.6	57.2	53.1	46.5	45.3
37	45.0	45.0	45.0	45.0	51.6	52.6	53.0	53.0	49.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.2	47.0	48.3	48.7	45.5	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	67.1	77.1	69.7	74.9	78.9	80.0	80.2	79.9	76.5	71.1	69.1
D	72.6	81.0	74.6	79.7	83.7	84.8	84.4	84.0	80.4	75.6	73.6
OASPL	79.0	82.1	80.8	84.0	86.2	87.7	88.7	89.2	87.5	81.3	80.7
PNL	79.8	87.8	81.6	87.1	90.7	91.3	91.2	90.9	87.1	82.9	80.9
PNLT	79.8	89.5	81.6	87.1	90.7	91.3	91.2	90.9	87.1	82.9	80.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 19, 60 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.0	-13.0	-10.0	-7.0	-4.0	-1.0	0	2.0	5.0
17	59.3	61.2	62.8	67.5	70.1	72.8	73.6	71.6	73.1
18	72.6	72.9	74.0	75.6	76.7	73.0	72.4	68.0	69.0
19	62.3	68.4	70.4	72.5	71.7	65.4	66.0	64.6	60.5
20	64.7	65.8	67.5	68.6	66.7	72.8	78.1	76.1	61.7
21	73.8	73.8	72.8	73.3	69.4	78.4	79.7	73.6	68.4
22	65.1	64.0	60.3	59.4	66.6	77.5	78.0	71.8	68.6
23	67.3	63.1	57.3	63.8	71.4	74.3	74.1	67.3	69.3
24	58.2	58.1	54.7	72.7	75.6	72.8	74.8	70.7	63.0
25	55.3	56.8	59.9	69.9	67.9	76.8	77.3	70.7	63.2
26	63.4	60.7	63.6	69.2	69.1	74.7	75.1	71.6	69.2
27	66.9	60.4	61.6	65.1	72.4	76.2	74.9	71.4	66.9
28	59.3	58.5	55.4	67.4	67.6	73.5	74.0	71.9	67.9
29	55.3	56.0	58.8	64.4	69.4	72.9	72.4	71.8	68.5
30	55.5	59.2	58.7	64.9	68.3	72.6	71.2	69.5	67.1
31	53.9	57.4	60.2	64.6	66.5	71.4	70.7	68.6	66.9
32	53.7	56.2	58.0	64.3	66.6	70.3	69.2	67.0	65.1
33	49.9	51.6	53.0	60.6	63.5	68.4	67.4	63.7	61.3
34	47.3	48.3	50.8	57.7	62.4	66.4	65.0	61.7	59.4
35	45.0	45.0	46.6	54.3	60.3	63.1	62.0	59.4	57.0
36	45.0	45.0	45.0	49.7	56.4	59.0	58.5	56.0	53.0
37	45.0	45.0	45.0	45.1	47.8	53.9	54.3	52.4	48.5
38	45.0	45.0	45.0	45.0	45.0	48.8	49.5	48.4	45.2
39	45.0	45.0	45.0	45.0	45.0	45.0	45.4	45.1	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	68.2	67.2	68.3	74.3	77.2	81.2	81.0	78.5	75.5
D	74.3	73.2	74.2	79.3	82.2	85.7	85.9	83.0	79.6
OASPL	79.0	79.1	80.0	82.9	85.5	89.1	90.5	90.5	86.3
PNL	81.3	81.2	81.2	86.6	89.3	93.0	93.0	89.7	86.7
PNLT	81.3	81.2	81.2	86.6	89.3	93.0	93.0	89.7	86.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 20, 6 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.0	-7.0	-5.0	-3.0	-1.0	0	1.0	3.0	5.0	8.0
17	66.2	66.1	67.8	69.0	68.7	69.7	70.9	72.4	72.1	67.6
18	72.6	73.6	72.0	72.1	70.3	68.9	68.8	70.6	72.7	69.9
19	65.7	66.5	65.1	67.6	66.7	66.2	68.0	62.7	67.6	65.0
20	66.7	66.3	64.0	63.5	74.1	79.5	83.0	75.7	67.8	68.6
21	75.7	75.3	74.6	77.1	80.8	84.2	86.6	83.9	76.7	69.9
22	66.3	61.9	61.9	73.2	80.0	80.6	84.4	87.0	75.5	66.5
23	68.8	66.2	67.1	76.9	78.8	77.3	77.2	85.8	80.8	67.9
24	67.7	75.1	78.6	79.9	75.3	78.4	82.3	77.4	80.6	68.1
25	66.4	71.4	68.6	69.7	78.7	79.5	79.8	83.5	74.8	70.7
26	70.7	74.4	68.1	75.5	75.9	76.2	79.5	81.5	72.9	73.4
27	65.7	64.9	69.7	73.6	74.7	76.1	77.0	78.0	73.7	69.1
28	61.0	70.0	64.5	71.3	72.2	73.8	75.3	74.0	67.6	62.5
29	63.7	64.5	64.2	68.1	71.9	72.0	73.3	71.4	66.7	63.4
30	59.4	64.9	62.3	66.3	71.2	71.0	70.7	69.3	64.0	60.1
31	60.4	62.5	61.2	65.6	69.7	69.5	69.4	68.6	62.8	59.9
32	61.8	61.1	61.2	65.9	68.8	68.4	68.4	66.2	61.9	58.3
33	58.3	60.8	60.1	63.1	67.5	67.2	66.4	63.1	58.7	55.6
34	54.4	59.0	58.7	62.9	67.6	65.7	63.6	61.8	57.2	53.2
35	50.1	55.5	55.6	63.5	65.4	63.2	62.4	59.6	55.0	50.8
36	46.5	50.7	53.5	59.5	61.3	60.5	59.8	57.3	51.5	46.9
37	45.0	45.5	47.7	52.3	56.8	57.1	56.6	53.6	46.9	45.0
38	45.0	45.0	45.0	46.6	52.5	53.5	54.1	50.0	45.0	45.0
39	45.0	45.0	45.0	45.0	47.1	49.1	49.8	46.1	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.5	46.0	45.1	45.0	45.0
A	72.3	76.0	75.1	79.2	81.4	81.9	83.5	84.1	78.7	73.9
D	78.0	80.9	81.0	84.9	87.2	87.6	89.1	89.7	84.4	78.6
OASPL	84.9	86.8	88.9	89.4	90.1	90.0	92.3	93.2	87.5	81.0
PNL	85.4	88.2	88.6	92.0	94.0	94.6	96.0	96.3	91.4	86.3
PNLT	86.5	89.9	88.6	92.0	94.0	94.6	96.0	96.3	91.4	86.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 26, 100 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	5.5	7.5
17	69.8	70.7	68.0	68.5	68.9	68.3	68.0	66.2	68.0
18	73.2	75.0	71.5	71.8	71.0	70.0	71.7	69.8	70.7
19	67.0	69.3	66.6	69.3	70.3	66.8	66.3	64.6	67.9
20	65.9	67.6	65.5	71.4	76.5	82.3	64.6	64.2	64.1
21	73.7	78.9	74.7	80.8	81.6	75.4	71.8	70.0	69.2
22	66.3	67.0	63.9	70.9	71.4	70.7	70.0	64.6	62.3
23	67.3	70.6	70.2	72.2	71.0	69.1	72.9	68.1	66.5
24	61.6	70.8	77.3	75.5	72.2	69.0	66.8	64.6	60.6
25	58.7	64.3	65.5	73.1	73.4	72.1	66.9	63.2	62.7
26	64.2	71.5	67.8	75.9	74.9	74.8	71.5	61.7	65.6
27	63.2	63.5	73.7	77.0	77.6	73.9	69.7	65.3	59.7
28	61.0	70.1	72.2	76.1	75.8	73.2	70.6	63.2	63.6
29	61.5	67.5	74.1	76.6	76.4	75.0	69.9	64.4	63.0
30	61.5	68.4	72.4	76.0	76.1	72.9	68.3	63.1	62.0
31	60.2	64.0	70.8	73.9	73.8	72.0	67.4	61.5	61.5
32	60.5	61.7	69.1	71.9	72.2	70.4	66.3	60.2	59.4
33	59.7	60.3	66.3	70.1	69.9	67.8	62.5	57.4	55.7
34	57.2	57.3	64.9	69.4	68.7	66.0	60.1	55.5	55.0
35	55.0	55.5	63.2	66.8	66.4	63.6	57.6	55.0	55.0
36	55.0	55.0	58.7	63.5	63.0	60.2	55.2	55.0	55.0
37	55.0	55.0	55.4	58.1	58.2	56.6	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	70.5	75.3	80.7	84.0	84.1	82.0	77.2	70.9	70.2
D	78.0	80.8	85.1	88.2	88.2	86.1	82.0	77.6	77.2
OASPL	84.5	85.6	86.0	88.2	88.3	87.2	84.4	81.2	81.2
PNL	85.0	88.7	91.5	95.2	94.9	93.0	89.0	84.5	84.0
PNLT	85.0	90.2	91.5	95.2	94.9	93.0	89.0	84.5	84.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 27, 100 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB - RE 20 MICRO PA)

BAND	-7.5	-6.0	-4.5	-3.0	-1.5	-1.0	0	1.5	3.0	4.5
17	70.1	71.0	68.8	69.3	71.9	71.9	69.6	69.0	68.0	66.2
18	73.6	73.7	72.4	72.9	69.9	70.6	69.1	63.1	62.6	64.8
19	68.9	69.4	68.5	66.5	66.6	66.1	63.2	62.8	57.2	61.3
20	70.7	72.4	74.7	75.3	72.0	71.6	71.9	79.2	66.6	62.8
21	70.5	74.2	73.6	70.2	69.9	76.0	78.2	74.6	65.8	59.1
22	59.5	61.5	58.4	57.5	65.9	67.3	68.5	69.9	67.4	63.5
23	57.5	57.0	55.0	62.6	69.3	69.7	67.5	63.7	66.3	68.1
24	55.8	58.4	65.8	74.0	78.3	78.2	73.5	66.7	63.2	62.7
25	53.6	62.2	63.5	65.4	64.9	68.1	71.4	68.7	70.9	60.5
26	61.9	66.7	67.4	68.7	72.0	75.5	74.7	74.9	72.1	69.0
27	64.3	66.5	61.5	67.9	72.1	74.4	76.6	73.9	72.7	64.9
28	64.9	65.4	61.9	70.6	75.7	77.3	75.6	74.0	71.1	66.7
29	58.6	60.6	63.5	66.5	72.0	74.0	74.8	74.9	71.2	65.8
30	61.5	64.0	62.3	67.3	72.1	74.1	74.7	73.6	69.6	65.7
31	60.2	62.1	62.6	65.4	70.1	72.2	73.0	71.8	68.2	64.2
32	59.7	63.1	63.9	66.4	69.7	71.3	72.3	70.3	66.4	61.9
33	56.6	60.6	63.0	64.1	68.0	69.3	70.2	68.0	63.2	58.7
34	53.4	57.4	59.6	62.9	67.6	68.7	68.5	65.6	60.4	56.1
35	47.6	52.0	57.2	59.0	64.2	66.3	66.5	63.3	58.5	53.1
36	45.0	45.7	51.2	53.7	61.0	62.9	62.5	59.6	55.3	49.3
37	45.0	45.0	45.0	47.2	54.8	56.8	57.0	55.7	50.7	45.5
38	45.0	45.0	45.0	45.0	47.9	49.8	51.2	51.0	46.5	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.8	45.8	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	69.9	72.2	72.8	76.2	80.6	82.4	82.5	81.2	78.1	73.5
D	75.7	78.0	78.9	81.6	85.3	86.9	86.7	85.1	81.8	77.3
OASPL	83.8	84.3	84.6	85.2	86.8	87.6	86.8	85.9	83.3	80.9
PNL	81.9	84.7	85.8	88.2	92.3	93.9	93.9	92.1	88.3	84.3
PNLT	83.0	84.7	85.8	89.3	93.5	94.9	93.9	92.1	88.3	84.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 28, 100 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.5	-4.0	-2.5	-1.0	0	.5	2.0	3.5	4.5
17	68.3	71.7	69.6	69.8	69.4	68.9	69.1	69.7	70.2	67.5
18	73.6	72.9	74.1	72.9	68.5	67.8	68.3	67.9	68.1	67.1
19	68.0	67.5	66.5	64.8	58.9	61.2	64.6	62.3	61.1	61.3
20	61.8	62.4	62.9	61.7	68.4	78.7	80.3	73.1	60.3	60.3
21	69.9	71.7	70.2	68.2	79.0	79.9	78.5	67.9	62.4	59.6
22	57.7	57.6	57.4	65.5	69.5	69.9	70.0	67.6	65.3	62.3
23	55.2	55.6	62.3	66.5	68.6	65.4	64.6	65.6	68.6	66.5
24	54.5	67.0	75.2	76.3	71.9	67.5	69.0	63.8	62.6	64.0
25	59.0	62.5	64.8	62.3	69.8	69.9	69.5	71.4	64.1	60.3
26	66.0	70.3	70.5	68.3	72.9	72.2	72.6	70.5	69.7	65.1
27	64.8	62.7	66.3	68.9	73.6	73.2	72.7	70.7	66.5	63.8
28	62.9	66.0	69.0	69.6	71.8	72.8	73.2	70.9	66.9	64.2
29	60.5	63.7	64.7	67.4	72.1	73.0	73.4	71.0	65.6	62.5
30	60.2	61.9	63.5	67.2	72.6	73.2	72.5	69.3	64.5	61.5
31	61.0	61.4	63.1	66.1	70.9	71.5	71.1	67.9	63.9	60.5
32	61.0	61.5	62.7	65.8	70.6	70.1	69.8	66.0	62.4	59.1
33	59.1	57.5	61.3	63.7	68.3	67.9	67.4	63.3	58.2	55.0
34	54.4	54.8	59.5	61.7	67.3	66.1	65.2	60.3	56.2	52.5
35	50.1	50.9	55.8	59.7	65.9	63.0	62.3	58.1	53.1	49.5
36	45.0	45.1	50.8	56.3	61.9	59.3	58.9	54.3	48.9	46.1
37	45.0	45.0	45.5	50.9	55.8	54.9	54.6	50.5	45.5	45.0
38	45.0	45.0	45.0	45.0	49.7	50.0	49.9	46.3	45.0	45.0
39	45.0	45.0	45.0	45.0	45.2	45.2	45.1	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	71.0	72.6	74.8	76.5	80.6	80.5	80.5	77.5	73.8	70.8
D	75.9	77.2	79.7	81.5	85.7	85.3	84.8	81.6	77.7	74.9
OASPL	83.8	84.2	85.0	85.9	86.6	86.3	86.3	85.3	82.0	79.8
PNL	82.4	84.5	87.1	88.7	92.4	91.9	91.8	88.2	84.8	81.7
PNLT	82.4	84.5	88.2	88.7	92.4	91.9	91.8	88.2	84.8	81.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 31, 3 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.5	-6.0	-4.5	-3.0	-1.5	0	1.5	3.0	5.5
17	66.8	66.1	68.8	67.2	70.4	73.0	72.4	71.4	71.3
18	70.4	70.7	73.3	70.8	74.4	71.8	67.8	69.1	71.8
19	65.1	66.7	68.1	67.3	69.9	65.0	69.6	66.8	68.5
20	61.9	62.3	65.8	64.4	64.7	79.5	83.8	69.7	69.2
21	66.2	67.6	69.5	67.0	76.0	81.9	80.6	71.5	63.8
22	58.1	57.8	62.1	71.4	78.5	77.7	77.2	73.7	62.9
23	55.6	60.9	71.6	79.2	79.4	75.9	73.2	75.2	66.5
24	63.0	70.9	79.4	83.4	80.6	75.0	76.4	68.1	70.8
25	68.9	76.9	81.7	83.3	77.7	78.8	76.9	71.3	70.4
26	74.4	78.3	79.4	79.9	82.7	77.5	77.4	70.8	64.1
27	69.6	69.6	77.6	82.1	78.3	78.0	76.6	70.9	65.2
28	60.5	69.7	77.9	77.0	78.4	75.3	76.7	71.1	65.2
29	62.5	66.4	69.3	75.6	74.5	75.3	75.9	70.5	63.7
30	58.7	65.3	70.0	71.8	74.7	74.7	74.5	70.1	63.0
31	59.2	64.7	68.1	71.7	74.8	74.3	72.6	68.5	63.0
32	59.7	63.5	66.9	71.5	73.3	73.1	72.0	67.6	61.8
33	57.0	60.8	64.7	69.3	71.9	70.8	69.4	64.8	58.6
34	55.5	59.4	63.6	67.7	70.4	68.9	66.9	62.5	56.6
35	55.0	57.3	60.6	67.0	69.6	66.7	65.3	61.1	55.1
36	55.0	55.1	57.0	64.7	66.0	63.6	62.9	58.9	55.0
37	55.0	55.0	55.0	59.5	61.0	60.6	59.9	56.1	55.0
38	55.0	55.0	55.0	55.0	56.4	57.5	57.9	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.3	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	73.5	77.8	82.9	85.0	85.9	84.1	83.9	78.4	72.7
D	78.8	82.9	87.4	90.0	90.8	88.9	88.5	83.5	79.4
OASPL	83.9	85.4	89.1	91.0	91.2	91.9	92.9	89.3	83.7
PNL	87.0	90.5	94.0	96.7	97.7	96.0	95.4	90.5	86.1
PNLT	87.0	90.5	95.4	96.7	97.7	96.0	95.4	90.5	86.1

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0
17	67.6	69.1	69.1	69.5	70.4	69.3	69.2	69.3	65.6
18	72.6	72.1	71.1	72.6	70.6	68.0	68.8	69.1	67.1
19	66.3	64.1	65.1	67.1	62.8	63.7	63.3	62.8	63.3
20	63.3	64.0	66.3	67.3	73.7	79.3	74.6	66.3	61.7
21	70.9	71.2	70.9	76.5	77.4	75.3	70.6	67.3	62.2
22	57.5	57.7	64.7	69.5	72.4	71.7	70.4	70.2	67.4
23	54.9	63.3	69.0	70.7	69.7	66.2	67.4	71.2	69.4
24	66.1	73.4	79.0	79.2	73.4	69.9	67.6	66.4	66.8
25	63.6	66.1	66.3	70.9	74.6	72.4	73.3	70.8	63.5
26	67.8	69.5	69.1	77.3	76.3	74.4	73.6	73.0	69.9
27	60.4	67.6	74.2	74.7	77.2	75.9	74.9	73.5	68.3
28	65.9	70.7	75.1	78.2	78.0	75.7	73.5	72.3	68.9
29	65.2	69.1	76.7	76.6	77.1	75.6	72.5	71.4	67.5
30	59.7	65.8	75.2	76.1	76.6	75.1	71.4	70.5	66.8
31	59.8	64.8	72.8	74.9	76.1	74.4	71.1	70.3	65.8
32	59.0	63.8	70.7	73.8	74.9	73.2	69.8	68.2	63.5
33	58.2	62.9	68.2	70.8	73.2	71.5	67.4	64.7	59.5
34	56.4	60.5	65.9	68.5	70.9	69.1	64.7	61.8	56.9
35	54.1	57.4	62.4	66.6	68.4	66.3	61.8	59.2	53.4
36	47.8	51.3	58.0	63.1	64.9	62.7	58.1	54.8	49.4
37	45.0	45.9	52.6	57.5	60.3	58.0	53.0	49.9	45.5
38	45.0	45.0	46.3	50.4	55.1	53.0	48.4	45.5	45.0
39	45.0	45.0	45.0	45.1	48.7	47.7	45.0	45.0	45.0
40	45.0	45.0	45.0	45.1	45.3	45.0	45.0	45.4	45.3
A	71.8	76.0	82.1	84.2	84.7	83.3	80.1	79.2	74.9
D	76.7	80.1	85.6	88.4	89.0	87.1	84.2	82.8	78.8
OASPL	82.0	82.9	86.5	87.9	88.4	87.6	84.9	83.6	80.6
PNL	83.5	87.0	92.2	95.0	96.2	94.5	91.4	89.7	85.7
PNLT	84.5	87.0	92.2	95.0	96.2	94.5	91.4	89.7	85.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.0	-6.0	-4.0	-2.0	0	2.0	4.0	6.0	6.5
17	68.3	69.5	70.8	70.5	66.2	66.8	66.9	67.3	67.8
18	74.9	74.0	73.7	73.3	72.0	70.6	72.1	70.1	68.9
19	69.9	69.5	67.7	64.6	63.8	64.4	64.2	63.8	63.4
20	64.8	63.8	62.3	62.0	73.6	77.6	63.7	62.4	62.3
21	70.4	74.1	72.1	75.5	80.9	73.6	74.3	71.5	70.4
22	60.0	61.9	59.6	66.1	69.7	68.6	67.5	62.3	60.8
23	57.2	55.7	60.2	69.3	66.4	65.6	70.4	63.8	61.9
24	54.4	62.5	71.0	76.8	69.8	66.8	63.8	64.3	61.9
25	56.0	64.7	64.5	65.6	70.7	72.1	63.2	64.8	63.5
26	60.4	70.4	67.7	69.2	73.1	73.0	70.0	61.7	62.6
27	60.9	66.8	61.0	72.4	73.6	73.3	67.8	66.1	62.6
28	59.8	63.4	68.0	73.7	72.2	71.5	68.9	66.9	66.3
29	57.1	65.2	63.3	71.2	72.6	71.3	68.2	66.8	64.4
30	60.7	61.3	63.8	70.7	72.7	70.3	66.3	64.6	62.0
31	60.1	63.3	64.2	68.5	71.8	68.4	65.5	62.9	60.4
32	60.1	61.5	63.3	67.4	69.9	67.5	63.7	62.0	59.0
33	56.8	60.3	61.9	65.6	68.1	64.8	59.3	57.3	54.1
34	52.4	54.9	59.4	63.5	66.6	62.6	57.0	53.6	50.5
35	46.5	50.8	56.1	60.0	64.8	60.1	54.1	49.7	48.0
36	45.0	46.1	50.0	55.8	60.4	56.0	50.5	46.0	45.3
37	45.0	45.0	45.2	50.3	55.5	51.5	45.4	45.0	45.0
38	45.0	45.0	45.0	45.0	49.5	47.1	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.2	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	69.1	72.7	73.8	78.9	80.5	78.7	75.2	72.8	70.8
D	74.5	77.5	79.3	83.5	85.4	83.0	79.0	76.6	74.8
OASPL	82.0	84.3	84.7	86.0	86.1	85.2	82.2	80.6	80.4
PNL	81.4	85.0	85.6	90.2	92.3	89.9	86.2	83.8	82.1
PNLT	81.4	85.0	87.5	90.2	92.3	89.9	86.2	83.8	82.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.0	5.0
17	69.2	67.1	67.8	66.0	69.3	70.1	70.6	69.8	65.7	64.7
18	68.0	69.0	70.2	67.6	69.0	68.4	68.1	63.7	64.9	63.1
19	64.3	64.2	65.1	65.5	65.3	65.0	66.8	64.1	60.5	62.2
20	62.2	62.0	61.6	61.3	65.3	69.5	80.8	77.7	60.0	59.2
21	67.5	71.0	71.1	68.1	75.8	78.7	79.4	70.2	63.0	57.5
22	58.8	58.2	57.8	60.5	68.9	69.8	70.7	70.5	66.5	64.0
23	56.4	54.6	56.2	65.8	69.7	69.3	65.8	67.7	70.5	68.9
24	54.8	55.8	68.1	76.3	79.0	77.5	70.0	67.0	64.1	66.7
25	52.0	58.0	64.1	65.7	70.4	73.3	74.1	72.1	66.7	63.2
26	55.5	63.9	69.8	68.2	76.1	76.6	74.1	73.6	70.6	68.3
27	56.4	64.2	63.1	74.2	74.7	75.4	75.8	73.7	67.9	66.8
28	57.4	64.9	70.6	73.3	77.0	76.5	74.5	72.0	67.3	66.2
29	52.2	61.3	70.6	74.0	76.4	76.2	74.8	71.1	66.8	64.8
30	51.1	64.2	68.5	71.0	75.5	75.7	74.1	70.5	65.8	64.2
31	51.8	62.0	65.2	68.5	73.6	73.9	72.4	69.1	65.5	64.4
32	62.9	69.0	67.9	67.9	71.8	72.1	70.9	67.9	63.3	62.0
33	50.9	60.9	63.1	66.6	70.1	70.6	70.3	64.9	59.7	57.6
34	45.7	56.5	59.0	64.3	69.1	69.5	68.2	62.7	57.3	54.6
35	46.3	53.0	56.6	60.4	66.8	67.7	66.1	60.5	54.5	50.8
36	45.0	45.5	49.5	54.9	64.1	64.9	62.5	57.2	50.6	46.9
37	45.0	45.0	45.0	49.0	57.2	58.4	57.5	52.7	46.1	45.0
38	45.0	45.0	45.0	45.2	50.1	51.8	52.4	48.8	45.0	45.0
39	45.0	45.0	45.0	45.0	45.2	45.5	46.6	45.0	45.0	45.0
40	45.0	45.1	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	66.1	73.4	76.8	79.9	83.3	83.5	82.3	79.0	74.7	73.0
D	72.6	78.3	80.7	83.8	87.6	87.8	86.8	83.0	78.9	77.4
OASPL	82.3	81.3	82.3	83.5	87.8	87.7	87.3	84.7	81.8	79.7
PNL	80.3	85.9	87.4	89.8	94.3	94.9	94.0	90.2	85.8	83.9
PNLT	84.1	88.4	88.6	89.8	94.3	94.9	94.0	90.2	85.8	83.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 32, 115 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.0	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	5.0
17	65.4	65.8	65.0	64.8	65.1	67.4	67.1	66.1	62.9
18	70.4	70.6	70.4	69.9	66.3	63.2	64.2	66.0	64.5
19	63.4	63.7	61.9	60.5	59.8	60.2	62.1	61.9	60.3
20	59.0	59.6	58.0	60.3	64.7	74.2	82.1	79.1	57.4
21	63.5	63.3	63.2	69.0	77.7	80.7	77.4	70.2	57.7
22	49.3	52.5	57.2	62.8	68.5	70.8	70.9	69.4	63.5
23	53.9	57.6	63.5	66.4	68.8	67.6	63.9	65.4	66.9
24	60.8	65.0	72.6	76.3	76.4	72.6	70.1	69.8	65.3
25	60.0	61.4	62.8	63.0	69.2	72.6	71.1	73.6	60.3
26	60.7	62.1	61.6	64.8	75.2	74.4	71.1	71.1	64.2
27	56.6	58.7	65.8	68.5	70.9	74.8	73.0	73.0	65.9
28	62.3	67.0	66.6	70.8	73.6	73.6	72.6	71.9	65.1
29	62.0	63.5	64.9	68.8	72.1	73.2	73.9	71.9	64.3
30	57.9	61.8	63.4	68.2	71.8	72.6	72.7	70.7	62.8
31	58.3	60.2	63.0	67.2	70.2	70.4	71.2	69.2	61.6
32	56.9	60.7	62.5	66.6	69.1	69.4	69.8	67.8	60.0
33	55.4	60.5	61.4	64.9	66.9	67.4	67.5	65.4	56.4
34	53.1	57.4	59.9	63.8	65.9	65.9	65.1	62.1	52.9
35	49.3	53.4	57.7	62.0	64.1	64.1	62.7	59.6	49.0
36	45.0	46.5	51.7	57.1	60.8	60.9	59.6	56.2	45.2
37	45.0	45.0	46.8	51.4	55.2	55.7	54.8	52.1	45.0
38	45.0	45.0	45.0	45.1	47.9	49.6	49.8	47.7	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	68.4	71.6	73.6	77.2	80.3	80.9	80.5	79.1	71.7
D	73.0	76.4	78.3	82.1	85.1	85.4	85.1	83.2	75.4
OASPL	78.9	80.0	80.7	81.9	84.9	86.2	86.4	84.5	77.7
PNL	79.7	83.0	85.2	88.8	91.6	92.2	91.8	90.0	82.1
PNLT	80.7	84.9	85.2	88.8	91.6	92.2	91.8	90.0	82.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 33, 115 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.0	-4.5	-3.0	-1.5	0	1.5	3.0	4.5	6.5
17	68.6	67.5	69.0	67.8	68.9	67.2	66.3	69.3	64.7
18	71.9	72.5	73.0	71.5	71.1	71.8	69.8	69.6	70.3
19	68.5	64.9	63.4	62.8	61.8	64.1	62.6	63.2	62.4
20	62.7	60.7	60.1	58.7	65.2	79.4	78.9	65.1	58.6
21	69.2	70.0	68.6	72.2	79.5	81.3	74.6	72.6	71.9
22	55.7	57.6	59.6	63.2	68.5	68.9	69.0	66.8	62.7
23	51.4	57.5	63.1	65.0	67.6	63.7	66.6	68.3	64.3
24	59.2	68.0	72.6	75.7	72.7	67.2	67.0	61.6	61.3
25	58.0	62.0	64.9	63.5	66.5	70.5	71.7	66.9	59.0
26	59.8	64.1	63.2	64.1	70.8	69.4	69.8	66.3	59.0
27	55.9	56.1	66.2	69.6	68.1	71.2	70.4	67.3	63.1
28	55.7	62.1	68.2	69.2	69.6	70.8	69.9	64.9	60.7
29	58.6	60.0	63.5	68.5	68.6	71.3	68.8	65.2	59.2
30	53.8	57.3	62.4	67.5	68.4	70.1	68.1	63.7	58.7
31	55.3	57.7	62.5	64.5	66.6	68.9	66.9	63.1	57.1
32	54.8	58.1	62.0	62.1	66.0	67.8	65.0	61.3	54.5
33	51.2	56.0	59.2	60.8	63.4	65.4	61.8	57.6	51.4
34	46.7	52.0	57.8	58.8	61.5	63.1	59.3	54.3	48.3
35	45.0	46.4	53.5	55.0	59.6	60.4	56.3	51.7	46.0
36	45.0	45.0	47.9	49.5	55.7	56.7	52.5	47.8	45.0
37	45.0	45.0	45.0	45.2	49.5	51.6	48.8	45.2	45.0
38	45.0	45.0	45.0	45.0	45.0	46.4	45.2	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	64.9	69.0	73.3	75.7	77.3	78.7	76.8	72.9	67.8
D	71.6	74.3	78.2	79.8	82.1	83.4	81.1	77.1	72.5
OASPL	81.8	82.7	83.0	82.9	84.8	85.8	84.3	82.2	78.5
PNL	78.3	81.3	85.1	87.3	89.0	90.6	88.2	84.2	80.3
PNLT	79.6	82.6	86.2	87.3	89.0	90.6	88.2	84.2	80.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-61

OCTOBER 28 1976

EVENT 34, 115 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	6.0
17	64.1	63.5	63.7	64.3	65.8	65.4	66.1	68.3	69.7
18	69.3	68.2	68.1	66.8	63.6	59.9	61.1	61.9	64.4
19	64.2	63.6	63.9	62.9	60.1	60.1	62.0	59.9	62.9
20	59.2	59.4	57.8	60.5	69.5	81.4	82.5	73.4	57.5
21	64.3	63.2	62.9	74.5	79.9	80.6	74.9	67.8	57.1
22	50.9	53.6	62.6	68.8	69.6	68.7	69.7	68.7	63.1
23	56.3	60.9	66.8	70.5	68.9	64.6	65.8	69.4	67.5
24	66.2	69.9	75.5	78.3	75.4	68.6	68.4	66.3	63.9
25	61.9	61.6	63.9	65.8	71.0	73.3	72.5	72.6	59.5
26	64.3	63.8	64.2	72.2	73.6	71.2	71.5	69.4	64.5
27	58.3	60.4	70.1	72.4	71.4	72.8	72.4	72.6	63.8
28	64.0	64.7	69.4	73.0	72.4	71.3	71.0	70.7	62.9
29	63.2	60.5	70.3	72.5	71.7	73.2	72.1	69.0	61.4
30	56.9	61.4	68.5	71.8	71.2	72.6	70.7	68.0	59.2
31	55.5	58.2	67.6	71.0	70.7	71.4	69.5	67.4	58.5
32	56.2	57.7	66.0	69.6	69.8	70.0	68.0	66.0	56.6
33	53.4	56.1	64.4	68.0	67.6	68.1	65.5	62.0	53.0
34	50.5	52.6	62.6	66.2	66.2	66.1	62.4	60.2	50.3
35	47.2	49.1	59.6	63.6	64.1	62.7	59.9	57.7	47.4
36	45.0	45.4	54.7	60.5	61.5	59.7	56.6	54.1	45.3
37	45.0	45.0	48.4	53.9	54.7	54.3	52.1	49.4	45.0
38	45.0	45.0	45.0	46.7	48.1	48.8	47.3	45.9	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	69.0	70.1	77.9	80.5	80.0	80.5	78.9	77.1	69.4
D	73.8	74.8	82.0	85.2	85.3	85.3	83.3	81.3	73.5
OASPL	79.6	78.9	81.6	84.8	85.4	86.4	86.1	83.4	79.8
PNL	80.2	82.0	88.1	91.6	91.9	91.9	90.8	88.3	80.8
PNLT	81.3	83.5	88.1	91.6	91.9	91.9	90.8	88.3	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 1, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB - RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.5	81.5	66.2	74.4	4.8
15	76.5	81.4	69.8	75.5	3.0
16	73.4	80.0	66.8	71.8	3.5
17	74.3	78.3	70.0	73.8	2.2
18	74.0	76.8	69.4	73.6	1.9
19	74.9	77.9	72.1	74.6	1.5
20	85.2	88.6	81.2	84.9	1.6
21	78.9	82.0	76.7	78.7	1.3
22	79.4	82.0	76.4	79.2	1.4
23	81.7	83.6	79.1	81.6	1.1
24	80.8	83.0	79.3	80.7	1.0
25	81.0	83.5	79.5	80.9	1.0
26	80.0	82.3	77.7	79.9	1.2
27	79.8	81.8	78.0	79.7	.9
28	79.9	81.9	77.3	79.8	1.1
29	80.2	82.8	76.9	80.0	1.4
30	79.9	82.7	76.5	79.6	1.5
31	79.6	82.7	75.9	79.3	1.6
32	78.8	82.4	74.5	78.4	1.8
33	73.3	76.4	69.6	73.0	1.6
34	68.2	70.9	65.1	68.0	1.4
35	66.1	68.1	63.1	65.9	1.3
36	64.4	65.9	62.3	64.3	.9
37	58.9	60.6	57.0	58.9	.8
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	87.9	90.1	85.9	87.8	1.0
DBD	91.8	93.7	90.2	91.7	.9
OASPL	92.5	94.0	91.4	92.5	.7
PNL	99.6	101.9	97.5	99.4	1.1
PNLT	99.6	101.9	97.5	99.4	1.1

270°
(Microphone Location Relitive to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 3, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.8	74.6	62.5	69.8	3.3
15	71.2	75.1	65.5	70.6	2.2
16	66.8	70.5	63.0	66.4	1.9
17	71.0	74.5	67.4	70.7	1.6
18	70.9	74.4	68.5	70.7	1.5
19	74.5	77.8	70.6	74.0	2.0
20	85.0	87.8	80.3	84.5	2.0
21	78.8	81.2	76.2	78.6	1.3
22	78.0	80.4	75.0	77.7	1.6
23	82.4	84.1	80.3	82.3	1.1
24	81.9	84.1	79.4	81.7	1.2
25	83.0	85.8	79.3	82.7	1.6
26	81.4	84.3	78.1	81.0	1.7
27	80.7	82.7	78.3	80.6	1.2
28	80.5	82.7	77.9	80.4	1.2
29	81.1	83.8	78.2	80.9	1.4
30	79.8	83.5	76.4	79.5	1.5
31	78.2	82.0	74.5	78.0	1.5
32	76.6	80.0	71.9	76.2	2.0
33	74.1	78.8	68.9	73.4	2.4
34	72.8	77.8	67.8	72.1	2.4
35	69.3	73.0	65.6	68.9	2.0
36	65.5	68.2	62.3	65.2	1.6
37	59.5	61.9	57.3	59.3	1.2
38	55.3	56.4	55.0	55.3	.4
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	88.2	91.4	85.7	88.1	1.1
DBD	92.6	95.5	90.2	92.4	1.1
OASPL	92.6	93.8	90.5	92.5	.8
PNL	99.6	102.3	97.5	99.5	1.1
PNLT	99.6	102.3	97.5	99.5	1.1

225°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 4, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB : RE 20 MICRO PA)

180°
(Microphone Location Relative to Microphone)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.8	72.1	59.9	67.9	3.0
15	73.9	77.1	67.4	73.4	2.4
16	68.0	70.5	64.0	67.7	1.6
17	77.9	83.8	71.1	76.5	3.5
18	77.8	83.2	71.8	76.6	3.1
19	79.2	85.2	73.6	77.9	3.0
20	84.7	88.2	80.7	84.0	2.3
21	83.0	88.8	78.6	82.1	2.6
22	83.0	85.8	78.7	82.4	2.3
23	84.8	88.2	80.5	84.4	2.0
24	84.7	87.5	81.5	84.4	1.6
25	84.4	87.0	80.1	84.1	1.7
26	84.0	87.2	79.6	83.6	1.8
27	82.0	85.3	78.4	81.6	2.0
28	79.8	83.1	75.8	79.4	1.9
29	79.5	82.8	75.1	79.0	2.0
30	76.9	80.1	72.2	76.4	2.1
31	75.0	78.4	71.2	74.5	2.1
32	74.9	78.6	70.3	74.2	2.6
33	72.1	76.2	66.1	71.3	2.7
34	70.2	73.4	64.3	69.6	2.3
35	68.1	71.1	63.5	67.6	2.1
36	64.7	67.7	60.9	64.3	1.9
37	59.4	62.3	56.0	59.1	1.7
38	55.6	57.2	55.0	55.5	.7
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	88.0	90.4	85.6	87.7	1.4
DBD	92.9	95.4	90.2	92.7	1.4
OASPL	94.1	97.3	91.2	93.8	1.7
PNL	100.1	102.9	97.2	99.8	1.5
PNLT	100.1	102.9	97.2	99.8	1.5

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 5, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

135°
(Microphone Location Relative to Helicopter)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.1	72.6	62.0	66.2	2.6
15	81.0	84.0	78.3	80.8	1.5
16	72.7	74.4	71.2	72.6	.9
17	81.7	85.1	77.8	81.3	1.7
18	81.3	83.6	78.1	81.0	1.6
19	84.0	86.2	79.8	83.7	1.7
20	88.6	90.5	86.1	88.4	1.2
21	86.9	88.9	81.8	86.6	1.8
22	87.5	89.8	83.8	87.2	1.6
23	88.9	91.4	85.5	88.6	1.5
24	88.6	90.5	82.4	88.3	1.8
25	87.6	89.3	82.1	87.3	1.7
26	87.2	89.6	81.8	86.9	1.7
27	85.8	89.4	79.9	85.3	2.0
28	83.6	86.0	78.7	83.4	1.7
29	82.3	84.9	77.1	81.9	1.9
30	78.4	81.1	73.7	78.1	1.7
31	76.7	78.4	73.4	76.5	1.4
32	76.7	78.6	73.5	76.6	1.3
33	74.8	76.9	71.0	74.6	1.4
34	72.2	74.3	70.1	72.1	1.1
35	68.4	69.9	66.4	68.3	1.0
36	65.0	66.4	63.2	65.0	.8
37	59.5	60.7	57.9	59.4	.8
38	55.1	55.6	55.0	55.1	.2
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	91.1	93.2	87.2	91.0	1.3
DBD	96.0	97.7	92.8	95.9	1.1
OASPL	97.7	99.6	94.7	97.5	1.2
PNL	103.2	104.7	100.2	103.0	1.0
PNLT	103.2	104.7	100.2	103.0	1.0

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 6, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.0	71.2	60.1	64.5	3.5
15	80.2	84.0	73.3	79.4	2.8
16	71.9	74.9	68.5	71.5	1.9
17	77.0	79.0	72.6	76.8	1.6
18	76.6	79.9	72.9	76.2	1.8
19	76.7	78.8	73.1	76.5	1.6
20	87.3	90.7	84.5	87.0	1.7
21	81.6	84.2	79.0	81.4	1.3
22	81.8	84.3	79.3	81.6	1.2
23	84.3	86.1	81.2	84.1	1.2
24	83.1	85.0	79.7	82.9	1.3
25	84.0	86.3	81.8	83.9	1.1
26	83.1	85.0	79.9	82.9	1.4
27	82.8	84.3	78.9	82.5	1.6
28	82.0	83.7	76.8	81.7	1.7
29	80.2	81.1	76.3	79.9	1.6
30	77.4	78.6	72.6	77.1	1.8
31	75.0	77.2	70.9	74.6	1.8
32	73.4	75.5	69.9	73.1	1.7
33	70.0	72.3	66.8	69.8	1.6
34	68.0	70.4	65.7	67.8	1.4
35	65.7	67.6	63.7	65.6	1.2
36	63.2	64.8	61.4	63.1	.9
37	58.7	60.6	56.8	58.6	1.0
38	55.3	56.4	55.0	55.3	.4
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	87.9	89.1	84.7	87.8	1.2
DBD	92.4	93.6	89.7	92.3	1.0
OASPL	94.1	95.7	92.3	94.1	.8
PNL	99.5	101.2	97.1	99.4	1.0
PNLT	99.5	101.2	97.1	99.4	1.0

90°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 7, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.1	68.0	57.1	60.9	3.0
15	69.5	74.1	65.4	69.0	2.0
16	65.0	66.7	62.0	64.9	1.1
17	71.8	74.3	66.6	71.5	1.8
18	72.0	74.9	67.3	71.7	1.6
19	73.4	75.0	71.2	73.3	1.2
20	77.3	80.8	73.8	76.7	2.1
21	75.2	77.1	72.2	74.9	1.5
22	75.1	77.8	72.6	74.9	1.5
23	78.7	81.4	75.4	78.5	1.4
24	78.0	81.8	74.2	77.5	2.0
25	80.2	85.2	75.5	79.5	2.4
26	80.0	84.7	75.7	79.4	2.3
27	80.1	84.9	75.5	79.5	2.3
28	78.6	83.2	74.5	78.0	2.1
29	77.6	81.2	75.1	77.3	1.6
30	74.8	77.2	72.6	74.6	1.2
31	73.4	77.1	71.0	73.1	1.5
32	71.8	75.8	68.9	71.4	1.6
33	68.0	70.2	65.4	67.9	1.1
34	66.3	68.5	64.7	66.2	1.0
35	64.2	66.1	62.6	64.1	1.0
36	61.4	62.7	60.1	61.4	.7
37	57.5	59.1	56.0	57.4	.7
38	55.1	55.7	55.0	55.1	.2
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	85.0	89.1	81.9	84.6	1.7
DBD	89.1	92.8	86.3	88.8	1.6
OASPL	89.4	93.0	86.5	89.2	1.5
PNL	96.1	99.5	93.2	95.9	1.5
PNLT	96.1	99.5	93.2	95.9	1.5

45°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 8, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.4	76.5	60.6	69.0	3.6
15	72.3	75.8	65.4	71.7	2.4
16	67.1	70.6	63.8	66.8	1.7
17	71.6	74.7	66.8	71.2	1.7
18	72.0	74.9	69.4	71.8	1.4
19	72.7	74.9	68.9	72.4	1.6
20	75.1	77.2	71.4	74.7	1.7
21	76.5	80.7	73.0	76.0	2.0
22	76.7	79.5	72.0	76.3	1.8
23	79.0	81.1	74.1	78.7	1.7
24	80.8	83.6	77.2	80.5	1.7
25	82.2	85.2	77.8	81.7	2.2
26	81.6	85.9	76.5	80.9	2.5
27	80.0	84.6	76.2	79.5	2.1
28	77.4	79.8	73.5	77.0	1.9
29	77.5	80.5	73.7	77.1	1.9
30	75.3	78.1	71.6	75.0	1.8
31	73.7	75.9	69.5	73.4	1.7
32	72.1	74.4	68.5	71.8	1.6
33	68.5	71.5	65.2	68.3	1.6
34	67.4	70.0	64.0	67.1	1.5
35	64.6	66.4	61.8	64.4	1.3
36	62.1	63.7	59.8	62.0	1.1
37	57.5	59.3	55.8	57.5	.8
38	55.0	55.2	55.0	55.0	.1
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	85.4	87.5	81.9	85.1	1.7
DBD	89.8	92.0	86.3	89.5	1.6
OASPL	90.3	93.3	86.8	90.0	1.6
PNL	96.9	99.5	93.5	96.6	1.6
PNLT	96.9	99.5	93.5	96.6	1.6

0°
(Microphone Location
Relative to Helicopte

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 9, 315 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.7	76.3	61.8	68.0	3.8
15	70.3	74.6	64.2	69.7	2.4
16	66.5	71.5	62.8	65.9	2.0
17	72.6	74.3	69.4	72.5	1.3
18	71.3	73.2	68.8	71.1	1.3
19	72.9	75.2	70.2	72.7	1.1
20	78.2	79.6	75.3	78.0	1.4
21	75.4	76.5	73.2	75.3	1.0
22	75.9	77.1	73.9	75.8	.9
23	78.2	79.7	76.0	78.1	1.0
24	78.3	79.7	74.7	78.2	1.1
25	79.4	82.7	76.6	79.2	1.5
26	79.3	83.2	76.5	79.0	1.6
27	78.9	81.9	75.7	78.6	1.4
28	78.1	81.2	74.8	77.9	1.4
29	77.2	79.7	72.6	76.9	1.6
30	74.0	78.0	70.2	73.7	1.7
31	71.8	73.9	69.4	71.6	1.2
32	71.3	73.2	69.2	71.2	1.1
33	68.9	71.0	66.1	68.7	1.2
34	67.7	69.3	65.5	67.7	.9
35	65.2	66.2	63.5	65.2	.7
36	63.4	64.5	61.4	63.3	.7
37	59.3	60.4	57.5	59.3	.7
38	55.9	57.3	55.0	55.9	.7
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55 0	55.0	.0
DBA	84.4	87.1	81.9	84.3	1.0
DBD	88.8	91.1	87.2	88.7	.9
OASPL	89.3	91.3	87.1	89.3	.8
PNL	96.0	98.2	93.9	95.9	.9
PNLT	96.0	98.2	93.9	95.9	1.0

315°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 1, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.7	75.5	63.3	67.0	2.1
15	76.4	79.2	73.7	76.2	1.2
16	72.0	75.2	69.8	71.8	1.3
17	73.2	75.6	70.1	73.0	1.6
18	74.7	76.8	73.0	74.6	.9
19	73.1	74.8	71.7	73.1	.7
20	82.6	86.0	77.8	81.9	2.5
21	76.1	77.3	73.0	76.0	1.2
22	74.5	76.3	72.8	74.4	1.0
23	73.5	75.8	71.4	73.4	1.1
24	70.0	73.4	66.7	69.6	1.9
25	70.7	72.9	66.1	70.4	1.8
26	71.2	72.9	67.9	71.0	1.5
27	72.5	74.4	69.9	72.4	1.1
28	73.2	75.0	70.3	73.1	1.1
29	73.8	76.6	71.0	73.5	1.4
30	73.2	75.9	69.8	72.9	1.6
31	72.5	75.4	69.9	72.4	1.2
32	71.7	73.5	68.6	71.5	1.3
33	68.8	71.2	65.4	68.5	1.5
34	67.9	69.5	64.7	67.7	1.3
35	66.6	68.2	64.2	66.5	.9
36	64.2	66.4	62.0	64.1	1.0
37	61.0	62.7	59.2	60.9	.8
38	57.6	59.3	56.2	57.5	.8
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	81.8	83.3	79.3	81.7	1.0
DBD	86.8	87.9	84.6	86.7	.9
OASPL	88.0	89.0	86.6	88.0	.6
PNL	94.3	95.4	92.2	94.2	.8
PNLT	94.3	95.4	92.2	94.2	.8

90°
(Microphone Location
Relative to Helicopter

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 3, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.3	80.1	67.7	73.2	3.1
15	74.8	78.2	70.5	74.4	1.8
16	75.5	79.1	69.6	74.8	2.6
17	74.6	76.4	71.4	74.4	1.2
18	73.5	76.8	69.8	73.2	1.6
19	73.5	79.0	70.6	72.9	2.1
20	76.9	79.2	73.3	76.6	1.7
21	74.6	76.1	72.4	74.4	1.1
22	73.9	75.9	71.7	73.8	1.2
23	73.1	75.4	70.1	72.9	1.3
24	69.6	71.3	67.1	69.4	1.2
25	70.2	73.4	67.0	70.0	1.5
26	71.8	75.0	67.8	71.4	1.8
27	73.5	76.5	69.1	73.1	1.8
28	72.4	74.9	68.9	72.1	1.6
29	72.1	74.4	68.6	71.9	1.5
30	70.1	72.2	66.0	69.9	1.5
31	71.6	73.2	67.4	71.4	1.4
32	71.0	72.5	67.5	70.8	1.4
33	68.8	70.5	65.5	68.7	1.2
34	68.5	70.2	65.6	68.4	1.1
35	67.6	68.9	64.9	67.6	.9
36	65.2	66.3	62.8	65.2	.8
37	62.0	63.2	59.8	62.0	.8
38	58.6	59.6	56.4	58.6	.7
39	55.1	55.7	55.0	55.1	.2
40	55.0	55.0	55.0	55.0	.0
DBA	81.1	82.6	78.2	81.0	1.2
DBD	86.6	87.9	84.3	86.5	1.1
OASPL	87.0	88.7	85.2	86.9	.8
PNL	94.2	95.4	92.2	94.1	.9
PNLT	94.2	95.4	92.2	94.1	.9

45°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 4, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

0°

(Microphone Location Relative to Helicopter)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.2	72.8	60.7	65.9	3.3
15	72.8	76.9	69.3	72.3	2.1
16	69.0	72.8	66.0	68.7	1.7
17	71.7	74.5	67.5	71.3	1.9
18	73.7	76.2	71.6	73.5	1.1
19	72.0	73.8	70.1	71.9	.9
20	74.1	77.4	71.0	73.8	1.7
21	74.4	75.9	72.4	74.3	1.0
22	72.4	73.7	70.5	72.3	.7
23	71.7	75.9	69.5	71.4	1.5
24	69.1	71.7	66.7	68.9	1.2
25	70.2	72.8	66.5	69.9	1.5
26	71.1	74.9	67.9	70.8	1.8
27	72.6	76.2	69.2	72.2	1.9
28	72.6	75.7	68.7	72.2	2.0
29	73.3	77.7	68.4	72.6	2.6
30	72.4	77.1	67.3	71.4	2.9
31	71.5	74.9	66.4	70.8	2.5
32	70.4	74.0	66.4	70.0	2.0
33	67.9	69.8	65.1	67.7	1.3
34	67.7	70.1	65.8	67.6	1.0
35	65.5	68.0	64.5	65.5	.8
36	63.8	65.9	62.5	63.8	.7
37	59.8	61.3	58.4	59.7	.6
38	56.5	57.6	55.2	56.4	.5
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	80.9	83.5	77.8	80.6	1.8
DBD	85.7	88.2	83.1	85.5	1.3
OASPL	85.5	87.3	83.9	85.5	.9
PNL	93.3	95.4	91.3	93.2	1.1
PNLT	93.3	95.4	91.3	93.2	1.1

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 5, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

315°
(Microphone Location Relative to Helicopter)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.0	71.6	63.1	67.6	2.0
15	76.6	78.3	74.1	76.5	1.2
16	71.6	73.2	68.8	71.5	1.0
17	74.1	77.4	69.8	73.6	2.2
18	73.5	74.8	71.5	73.4	.8
19	72.8	74.0	70.3	72.7	.8
20	79.2	83.5	75.0	78.6	2.2
21	74.6	75.7	72.6	74.6	.7
22	73.2	75.3	69.9	73.0	1.3
23	74.6	77.1	72.7	74.5	1.1
24	73.7	76.9	70.3	73.3	1.8
25	77.2	80.1	73.9	76.8	1.9
26	77.2	80.3	72.3	76.8	1.9
27	78.7	81.1	74.3	78.4	1.7
28	78.8	81.5	75.4	78.5	1.8
29	78.7	82.2	74.1	78.3	2.0
30	76.4	80.4	72.2	75.8	2.3
31	75.8	78.9	71.2	75.4	2.0
32	74.5	76.3	71.2	74.4	1.0
33	72.5	74.8	69.5	72.3	1.3
34	71.4	73.7	68.9	71.2	1.3
35	68.7	70.9	66.1	68.5	1.1
36	67.3	68.8	64.5	67.2	1.1
37	63.8	65.4	61.6	63.7	.9
38	60.7	62.8	58.2	60.6	1.0
39	56.5	58.4	55.0	56.4	.8
40	55.0	55.0	55.0	55.0	.0
DBA	85.8	87.8	83.3	85.5	1.4
DBD	90.1	92.0	87.9	90.0	1.2
OASPL	89.2	90.9	87.7	89.1	.9
PNL	97.3	99.1	95.3	97.1	1.0
PNLT	97.3	99.1	95.3	97.1	1.0

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 6, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.5	69.3	60.0	64.7	2.7
15	72.0	75.1	67.4	71.5	2.2
16	72.1	74.4	68.9	71.9	1.3
17	75.4	77.9	71.6	75.1	1.7
18	75.3	79.3	72.7	75.0	1.6
19	75.7	79.0	73.8	75.5	1.2
20	82.0	85.2	78.1	81.6	2.0
21	75.7	77.5	73.9	75.6	.9
22	72.6	74.0	70.6	72.5	1.1
23	77.6	79.6	70.9	77.0	2.4
24	74.4	76.6	70.5	74.1	1.6
25	76.7	79.6	72.4	76.3	1.8
26	76.9	80.1	72.2	76.6	1.9
27	78.6	81.1	73.7	78.2	1.9
28	78.9	81.7	73.2	78.4	2.1
29	79.0	83.0	74.1	78.4	2.4
30	77.6	82.3	72.7	76.9	2.4
31	75.9	80.3	70.9	75.1	2.5
32	74.7	80.1	69.3	73.5	3.0
33	72.2	77.5	65.6	70.6	3.5
34	70.2	75.9	64.3	68.9	3.2
35	67.0	71.0	62.9	66.4	2.3
36	64.1	66.9	61.5	63.9	1.6
37	59.9	62.1	57.8	59.8	1.2
38	56.0	56.8	55.0	55.9	.5
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	85.7	89.1	81.4	85.2	2.1
DBD	89.7	93.5	85.8	89.2	2.1
OASPL	89.8	91.6	87.3	89.6	1.2
PNL	97.0	100.3	93.9	96.5	2.0
PNLT	97.0	100.3	93.9	96.5	2.0

270°
(Microphone Location
Relative to Helicopter

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 7, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	71.3	76.1	62.9	69.8	3.9
15	74.7	77.9	67.5	74.2	2.2
16	74.8	82.5	66.4	72.4	4.0
17	73.4	77.1	68.8	72.9	2.1
18	73.2	75.4	71.5	73.1	1.1
19	74.0	79.1	70.3	73.4	2.0
20	82.2	85.4	77.1	81.8	1.9
21	75.7	77.5	73.5	75.6	.9
22	71.7	73.7	69.1	71.5	1.3
23	73.5	77.0	70.8	73.2	1.5
24	70.2	72.8	66.3	69.8	1.9
25	74.4	78.7	69.4	73.6	2.7
26	73.0	76.4	68.4	72.4	2.4
27	74.3	77.3	68.6	73.5	2.6
28	74.0	76.6	68.8	73.5	2.2
29	75.0	78.5	71.2	74.5	2.1
30	73.7	77.7	69.0	73.2	2.1
31	72.6	77.1	68.1	72.1	2.2
32	70.1	74.1	65.2	69.6	2.1
33	66.6	69.6	61.3	66.2	2.0
34	65.8	68.6	60.4	65.4	2.1
35	63.8	66.6	58.0	63.4	1.9
36	61.7	64.1	56.7	61.4	1.6
37	58.3	60.4	55.0	58.1	1.3
38	55.4	56.5	55.0	55.3	.4
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	81.8	85.2	77.6	81.4	2.0
DBD	86.0	88.7	82.1	85.7	1.7
OASPL	87.7	89.8	85.3	87.5	1.2
PNL	93.5	96.3	90.3	93.3	1.4
PNLT	93.5	96.3	90.3	93.3	1.4

225°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 8, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.4	70.4	58.8	65.3	3.5
15	73.3	74.9	68.8	73.1	1.5
16	70.2	73.1	64.5	69.8	2.1
17	72.0	74.1	69.5	71.8	1.2
18	74.5	76.6	72.3	74.4	1.0
19	73.6	75.0	72.6	73.6	.7
20	83.4	84.5	81.0	83.3	.9
21	77.4	80.2	75.3	77.2	1.4
22	71.9	73.5	70.4	71.8	.8
23	72.6	74.3	70.2	72.5	1.0
24	65.6	68.4	61.8	65.4	1.5
25	67.7	70.2	65.3	67.5	1.2
26	67.7	71.8	64.2	67.3	1.8
27	69.9	74.4	65.7	69.4	2.2
28	69.0	72.3	66.7	68.7	1.7
29	68.8	72.3	66.0	68.4	1.8
30	67.3	70.3	65.2	67.1	1.3
31	67.3	69.2	64.8	67.2	1.2
32	67.2	70.3	64.3	67.0	1.4
33	65.1	68.1	62.2	64.9	1.5
34	64.0	68.1	61.3	63.7	1.7
35	62.5	64.5	60.2	62.3	1.1
36	60.6	62.3	58.8	60.5	.8
37	57.6	59.1	55.8	57.6	.8
38	55.3	56.1	55.0	55.2	.3
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	77.5	80.3	75.5	77.3	1.3
DBD	83.4	85.5	81.6	83.2	1.0
OASPL	86.6	87.8	85.5	86.6	.7
PNL	91.8	93.6	90.5	91.7	.8
PNLT	91.8	93.6	90.5	91.7	.8

180°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 9, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.5	68.9	62.0	66.1	1.9
15	76.3	78.2	74.2	76.1	1.2
16	71.6	73.0	70.0	71.5	.8
17	72.8	75.1	70.3	72.6	1.2
18	74.5	76.0	72.8	74.4	.9
19	73.4	76.3	70.9	73.2	1.2
20	83.8	86.1	80.6	83.6	1.5
21	77.7	79.6	75.2	77.5	1.1
22	71.8	73.0	70.1	71.7	.8
23	70.9	73.3	68.2	70.7	1.2
24	67.5	70.7	64.4	67.1	1.9
25	69.0	72.7	65.6	68.4	2.1
26	68.0	70.4	64.8	67.6	1.7
27	69.4	71.4	66.4	69.1	1.5
28	69.4	71.6	66.0	69.1	1.5
29	69.9	72.1	67.0	69.7	1.4
30	69.1	70.6	65.1	68.9	1.4
31	68.5	69.7	65.7	68.3	1.1
32	66.8	69.2	64.3	66.6	1.1
33	63.1	64.8	60.9	63.0	1.0
34	61.9	63.3	60.4	61.8	.9
35	60.8	62.2	59.6	60.8	.8
36	59.3	60.6	57.8	59.2	.8
37	56.2	57.4	55.0	56.1	.7
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	77.8	79.6	75.1	77.6	1.1
DBD	82.9	84.7	80.7	82.8	1.0
OASPL	86.9	88.1	85.6	86.8	.8
PNL	91.7	93.2	90.0	91.6	1.0
PNLT	91.7	93.2	90.0	91.6	1.0

135°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 1, 0 DEGREES, MICROPHONE 75 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.2	75.1	66.0	69.4	2.6
15	77.6	81.6	73.9	77.4	1.5
16	71.9	73.3	69.3	71.9	.8
17	77.1	80.9	72.8	76.6	2.1
18	77.1	80.5	73.9	76.7	1.8
19	78.9	82.1	76.2	78.6	1.5
20	89.4	92.9	85.8	89.1	1.4
21	83.4	87.2	81.0	83.1	1.5
22	83.9	87.3	80.6	83.7	1.4
23	86.1	88.5	83.9	86.0	1.1
24	85.3	87.4	83.7	85.2	1.0
25	85.4	87.0	83.2	85.3	.9
26	84.7	86.0	82.7	84.6	.8
27	85.0	86.7	82.4	84.9	.9
28	84.7	86.6	81.8	84.6	1.1
29	84.6	86.5	82.2	84.5	1.0
30	84.4	87.3	82.1	84.3	1.2
31	84.0	87.3	81.8	83.7	1.4
32	83.1	86.2	80.1	82.8	1.6
33	80.0	83.2	77.0	79.7	1.7
34	76.6	79.4	73.7	76.3	1.4
35	74.0	76.2	71.8	73.9	1.0
36	71.0	72.7	69.6	70.9	.7
37	66.9	68.0	65.8	66.8	.6
38	62.3	63.5	61.4	62.3	.6
39	58.7	59.6	57.8	58.7	.5
40	56.3	56.8	55.5	56.3	.4
DBA	92.7	95.2	91.0	92.6	1.0
DBD	97.0	99.3	94.9	96.9	1.0
OASPL	96.9	98.2	95.6	96.8	.7
PNL	104.5	106.6	102.6	104.4	1.0
PNLT	104.5	106.6	102.6	104.4	1.0

270°
(Microphone Location Relative to Helicopter

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 3, 45 DEGREES, MICROPHONE 75 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.2	73.1	63.4	67.6	2.3
15	74.3	77.2	68.9	73.7	2.3
16	68.8	70.5	66.7	68.7	1.2
17	73.4	76.8	69.7	73.0	1.8
18	74.2	78.1	71.0	73.9	1.7
19	77.3	80.9	73.0	76.9	1.8
20	88.8	91.2	85.0	88.4	1.8
21	82.2	85.0	80.0	82.1	1.2
22	80.5	83.0	77.8	80.3	1.3
23	85.1	86.9	82.4	84.9	1.2
24	84.2	86.1	81.5	84.1	1.0
25	85.1	86.7	82.4	85.0	1.0
26	83.5	85.5	80.2	83.3	1.2
27	83.6	86.2	80.4	83.4	1.5
28	81.9	84.4	79.2	81.7	1.4
29	82.8	85.5	79.4	82.4	1.7
30	81.4	84.4	78.4	81.2	1.6
31	80.1	82.6	77.1	79.9	1.5
32	79.4	82.2	75.5	79.1	1.7
33	78.6	81.3	73.0	78.2	2.1
34	78.1	81.3	71.2	77.5	2.5
35	75.5	78.2	69.8	75.1	2.1
36	72.6	74.8	68.3	72.3	1.8
37	68.1	69.9	64.7	67.9	1.5
38	63.8	65.6	60.9	63.6	1.3
39	59.1	60.3	57.3	59.0	.9
40	55.5	56.3	55.0	55.5	.4
DBA	90.8	92.9	88.3	90.7	1.2
DBD	96.1	98.1	93.3	95.9	1.3
OASPL	95.2	97.1	93.6	95.1	.8
PNL	103.4	105.6	100.5	103.3	1.3
PNLT	103.4	105.6	100.5	103.3	1.3

225°
(Microphone Location Relative to Helicopter)

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 1, 0 DEGREES, MICROPHONE 75 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.6	76.5	65.7	71.4	3.5
15	82.4	84.4	80.2	82.3	1.0
16	76.2	77.4	73.6	76.1	.9
17	78.6	81.9	75.2	78.3	1.6
18	78.3	80.1	76.6	78.3	.9
19	78.8	80.5	76.7	78.7	.8
20	87.6	90.8	82.9	87.1	2.1
21	81.0	82.6	79.1	80.9	.9
22	79.8	81.4	77.9	79.7	.8
23	78.3	80.6	76.2	78.1	1.1
24	69.4	72.9	66.3	69.1	1.7
25	70.4	72.9	66.9	70.1	1.5
26	74.8	76.9	71.9	74.6	1.3
27	79.1	81.0	75.8	78.9	1.3
28	81.0	83.2	77.0	80.7	1.7
29	83.0	86.0	79.3	82.6	2.0
30	83.2	86.6	78.9	82.7	2.1
31	82.4	85.2	79.7	82.1	1.7
32	79.7	82.3	77.3	79.5	1.4
33	76.3	78.4	73.6	76.1	1.1
34	74.7	76.3	72.8	74.6	1.0
35	74.2	75.7	72.3	74.1	.9
36	73.0	74.7	71.5	72.9	.8
37	71.1	72.6	69.2	71.1	.8
38	69.3	70.5	67.2	69.2	.8
39	67.0	68.4	65.3	67.0	.8
40	63.7	64.8	62.1	63.7	.7
DBA	89.8	92.0	87.8	89.6	1.3
DBD	94.4	96.1	92.9	94.3	1.0
OASPL	94.1	95.9	92.8	94.0	.8
PNL	101.7	103.3	100.5	101.6	.9
PNLT	101.7	103.3	100.5	101.6	.9

90° (Microphone Location Relative to Helicopt

TABLE F-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 3, 45 DEGREES, MICROPHONE 75 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.0	70.0	62.9	66.5	2.0
15	75.9	78.9	71.5	75.5	2.0
16	71.2	72.8	69.4	71.1	.8
17	76.7	80.2	74.0	76.4	1.5
18	76.1	78.3	72.2	75.9	1.3
19	76.4	78.7	74.3	76.3	.9
20	81.1	83.5	77.6	80.9	1.5
21	78.9	80.7	77.4	78.8	.8
22	78.0	80.1	75.8	77.9	1.0
23	75.9	78.5	73.6	75.8	1.2
24	66.5	68.3	64.5	66.3	1.2
25	67.8	70.6	63.9	67.5	1.6
26	71.6	73.6	67.8	71.4	1.4
27	75.8	78.3	72.5	75.5	1.6
28	77.7	79.7	75.0	77.5	1.2
29	79.1	81.3	76.3	78.9	1.3
30	78.0	80.3	75.6	77.8	1.1
31	78.1	80.1	75.8	78.0	1.0
32	76.2	78.8	73.8	76.1	1.2
33	74.7	77.1	72.6	74.5	1.3
34	73.5	75.2	71.3	73.4	1.0
35	73.8	75.8	71.3	73.7	1.1
36	72.9	74.4	71.0	72.8	1.0
37	71.3	72.9	69.4	71.2	1.0
38	70.1	72.0	68.0	70.0	1.1
39	68.3	70.0	65.7	68.1	1.2
40	65.9	67.5	63.6	65.8	1.1
DBA	86.9	88.8	85.4	86.8	.9
DBD	92.7	94.4	91.1	92.6	.9
OASPL	91.0	92.1	90.2	91.0	.5
PNL	99.9	101.4	98.2	99.8	1.0
PNLT	99.9	101.4	98.2	99.8	1.0

45° (Microphone Location Relative to Helicopter)

TABLE F-VII

500 FT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 23, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

270°
(Microphone Location Relative to Helicopter)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	71.9	76.2	65.7	71.1	2.7
15	71.3	74.6	67.2	70.8	2.1
16	67.1	70.4	63.1	66.5	2.3
17	67.1	69.8	64.7	66.9	1.4
18	65.0	66.6	62.9	64.9	.9
19	62.4	64.3	59.9	62.3	1.1
20	61.9	64.6	58.8	61.7	1.4
21	71.8	76.2	62.4	70.5	3.8
22	77.8	80.6	68.6	76.8	3.4
23	82.1	84.3	74.0	81.3	3.0
24	80.0	82.5	74.4	79.6	2.1
25	78.6	82.1	65.9	77.3	4.1
26	81.9	83.6	75.3	81.5	1.9
27	77.7	79.2	74.2	77.5	1.0
28	78.2	79.4	75.8	78.1	.9
29	77.2	78.3	74.3	77.1	1.0
30	75.5	77.2	72.5	75.4	1.1
31	73.3	74.5	70.6	73.2	1.1
32	71.1	72.2	67.9	71.0	1.0
33	66.7	67.9	64.3	66.6	.9
34	62.9	64.3	60.2	62.8	1.1
35	59.1	60.3	55.9	59.0	1.1
36	54.4	56.4	52.2	54.3	.9
37	49.4	51.6	46.3	49.2	1.1
38	45.6	47.0	45.0	45.6	.5
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	84.7	86.0	80.8	84.6	1.2
DBD	88.7	90.2	84.0	88.4	1.5
OASPL	89.8	91.3	85.5	89.6	1.5
PNL	95.3	96.7	90.6	95.1	1.5
PNLT	95.3	96.7	90.6	95.1	1.5

TABLE F-VII

500 FT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 23, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.7	74.4	63.4	67.5	2.9
15	74.2	77.7	68.7	73.8	2.1
16	68.2	72.3	63.5	67.7	2.1
17	70.0	73.9	66.1	69.5	2.2
18	68.8	71.4	64.4	68.5	1.5
19	64.6	67.1	58.6	64.1	2.0
20	62.4	66.2	57.8	61.8	2.2
21	72.3	75.2	68.6	71.9	2.0
22	77.7	81.1	73.5	77.3	2.0
23	81.8	84.4	78.1	81.5	1.5
24	78.6	80.0	74.6	78.5	1.2
25	76.5	80.6	70.6	75.4	3.1
26	80.5	82.4	77.9	80.4	1.1
27	77.8	80.9	75.1	77.4	1.8
28	78.6	80.1	77.3	78.5	.8
29	77.0	79.7	75.0	76.8	1.3
30	74.3	77.1	72.4	74.1	1.4
31	71.7	74.4	69.6	71.5	1.5
32	69.7	71.9	67.3	69.5	1.3
33	65.9	68.2	63.0	65.7	1.4
34	62.4	64.3	60.1	62.2	1.2
35	59.5	60.8	57.3	59.4	1.1
36	54.3	55.9	52.0	54.2	1.1
37	49.6	52.0	47.5	49.5	1.1
38	45.4	46.9	45.0	45.4	.5
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	83.9	86.1	81.8	83.8	1.1
DBD	87.7	90.0	85.4	87.5	1.1
OASPL	88.9	91.2	86.4	88.7	1.2
PNL	94.6	96.6	92.4	94.4	1.0
PNLT	94.6	96.6	92.4	94.4	1.0

90°
(Microphone Location Relative to Helicopter)

TABLE F-VIII

500 FT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-61

OCTOBER 28 1976

EVENT 23 , 0 DEGREES, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.7	74.4	63.3	69.9	2.9
15	72.1	74.7	67.6	71.8	1.7
16	67.7	70.8	63.8	67.2	2.1
17	68.5	71.1	64.8	68.2	1.7
18	64.8	67.6	61.9	64.6	1.3
19	66.6	70.3	61.3	66.0	2.4
20	81.6	84.7	78.7	81.3	1.6
21	82.9	85.0	75.8	82.3	2.4
22	84.3	86.8	75.2	83.7	2.6
23	79.5	81.2	73.4	79.2	1.8
24	86.8	88.4	78.8	86.5	2.0
25	85.7	87.9	81.0	85.5	1.4
26	85.8	87.4	81.5	85.7	1.1
27	84.2	85.6	80.9	84.1	1.1
28	83.0	84.8	80.6	82.9	.9
29	80.7	82.2	78.7	80.6	.9
30	77.3	79.2	75.6	77.1	1.0
31	75.5	77.1	74.0	75.4	1.0
32	73.1	75.1	71.8	73.0	.9
33	69.1	70.4	67.6	69.1	.8
34	65.8	67.0	64.4	65.8	.7
35	62.3	63.4	61.0	62.3	.5
36	57.7	58.6	56.7	57.7	.5
37	53.0	53.7	51.8	53.0	.5
38	48.5	49.1	48.1	48.5	.3
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	89.2	90.3	86.0	89.1	.9
DBD	93.3	94.3	89.6	93.2	.9
OASPL	94.6	95.6	90.0	94.4	1.2
PNL	99.7	100.7	96.2	99.6	.8
PNLT	99.7	100.7	96.2	99.6	.8

(Helicopter Location Directly Overhead

TABLE F-VIII

Helicopter Noise Level Data
SIKORSKY S61 OCTOBER 28, 1976

Max RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	75M	MICROPHONE OFFSET TO THE EAST 75M	150M
5 Ft. HOVER 0°	1	90.5	95.0	92.8	86.3
	10	87.5	92.3	90.3	83.0
		(270°)		(90°)	
5Ft. HOVER 45°	3	91.3	93.5	89.0	85.0
	11	89.3	94.5	89.0	81.8
		(225°)		(45°)	
5Ft. HOVER 90°	4	94.3	96.8	88.5	86.0
	12	92.3	96.3	90.8	83.0
		(180°)		(0°)	
5 Ft. HOVER 135°	5	93.8	98.5	93.3	87.8
	13	96.3	98.3	94.5	86.8
		(135°)		(315°)	
5Ft HOVER 180°	6	91.3	94.0	95.0	89.5
	14	93.0	95.0	95.5	89.0
		(90°)		(270°)	
5Ft HOVER 225°	7	89.0	92.0	94.8	85.5
		(45°)		(225°)	
5Ft HOVER 270°	8	88.0	91.0	88.0	80.5
		(0°)		(180°)	
5Ft. HOVER 315°	9	87.5	90.5	88.8	79.0
		(315°)		(135°)	
500Ft HOVER 0°	23	85.8	89.5 ★	88.8 ★	85.5
		(270°)			(90°)
500Ft HOVER 90°	24	86.0	90.5 ★	89.5 ★	84.0
		(180°)			(0°)

★ Microphone at centerline

TABLE F-VIII

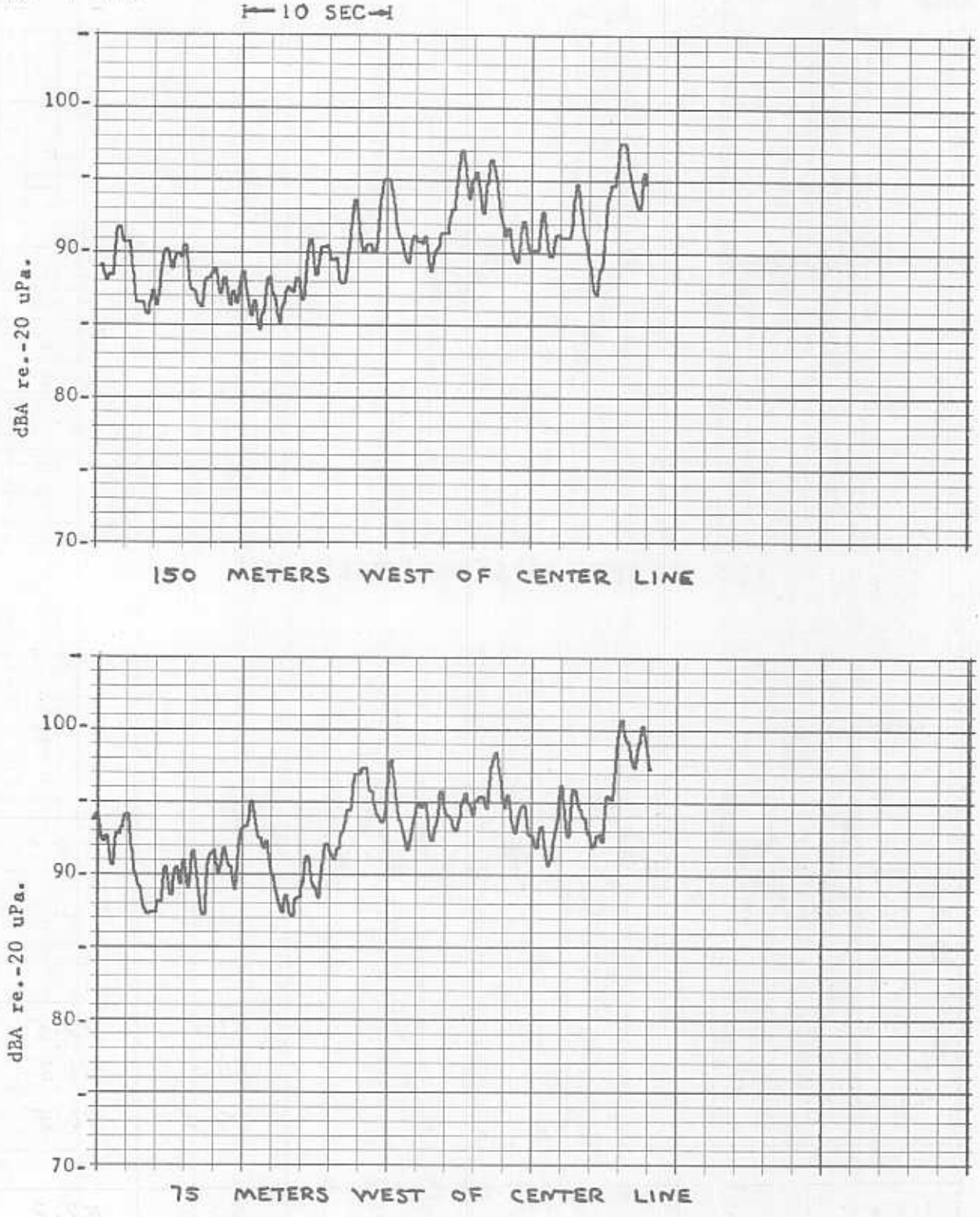
Helicopter Noise Level Data

SIKORSKY S-61 OCTOBER 28, 1976

max RMS Noise Level - dBA re 20 μPa

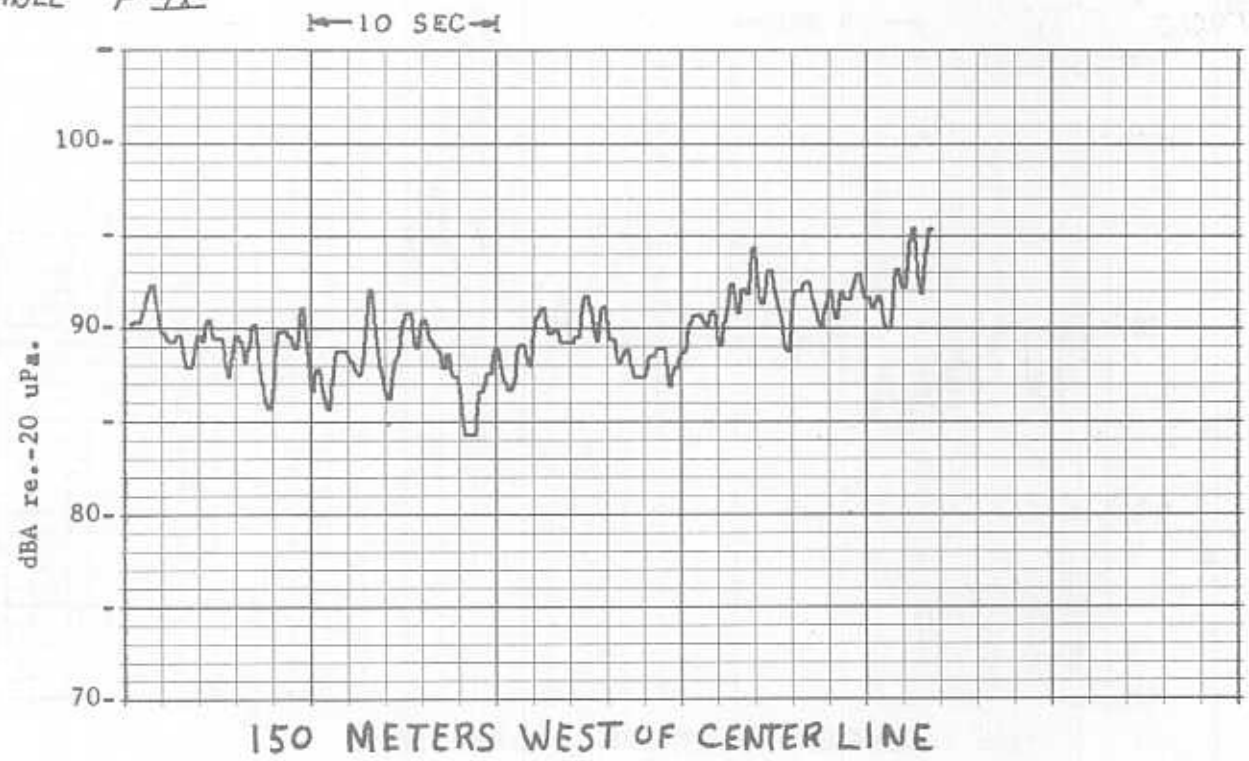
HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	MICROPHONE OFFSET TO THE WEST CENTER LINE	MICROPHONE OFFSET TO THE EAST CENTER LINE	MICROPHONE OFFSET TO THE EAST 150M
3° GLIDE SLOPE	29	82.3	86.8	86.3	80.3
	30	81.8	85.5	83.0	82.3
	31	82.5	87.0	84.0	80.5
6° GLIDE SLOPE	20	82.8	85.0	83.5	79.5
	21	85.0	86.3	84.0	79.5
9° GLIDE SLOPE	15	84.0	80.5	79.8	78.8
	16	84.5	80.3	80.0	80.3
	17	83.5	82.8	81.0	81.8
60 KT LEVEL FLYOVER	18	81.0	80.0	79.5	78.5
	19	83.0	82.5	82.0	80.0
100 KT LEVEL FLYOVER	26	82.8	84.0	81.5	82.5
	27	82.3	83.5	80.5	81.3
	28	81.8	81.8	79.5	80.5
115 KT LEVEL FLYOVER	32	84.0	85.3	82.0	82.3
	33	81.5	82.0	78.8	81.8
	34	81.8	84.0	81.8	85.3

TABLE F-IX

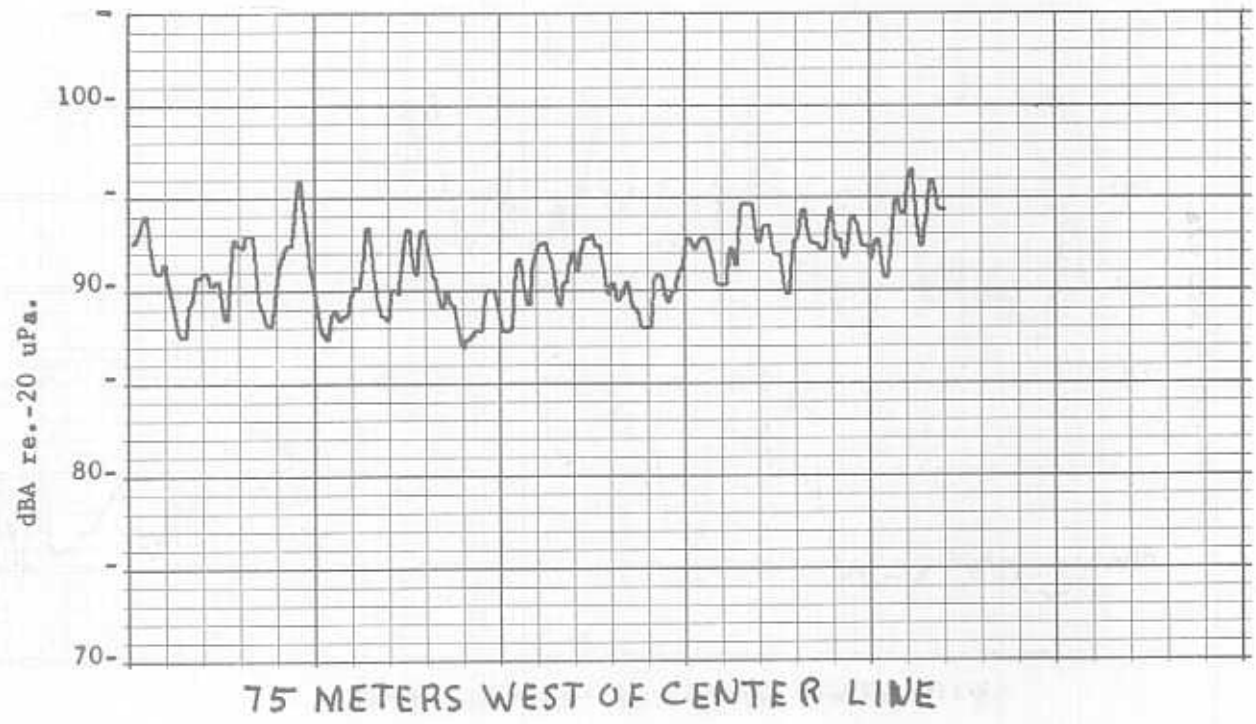


NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
90° HOVER - 5 FT. RUN 4

TABLE F-IX



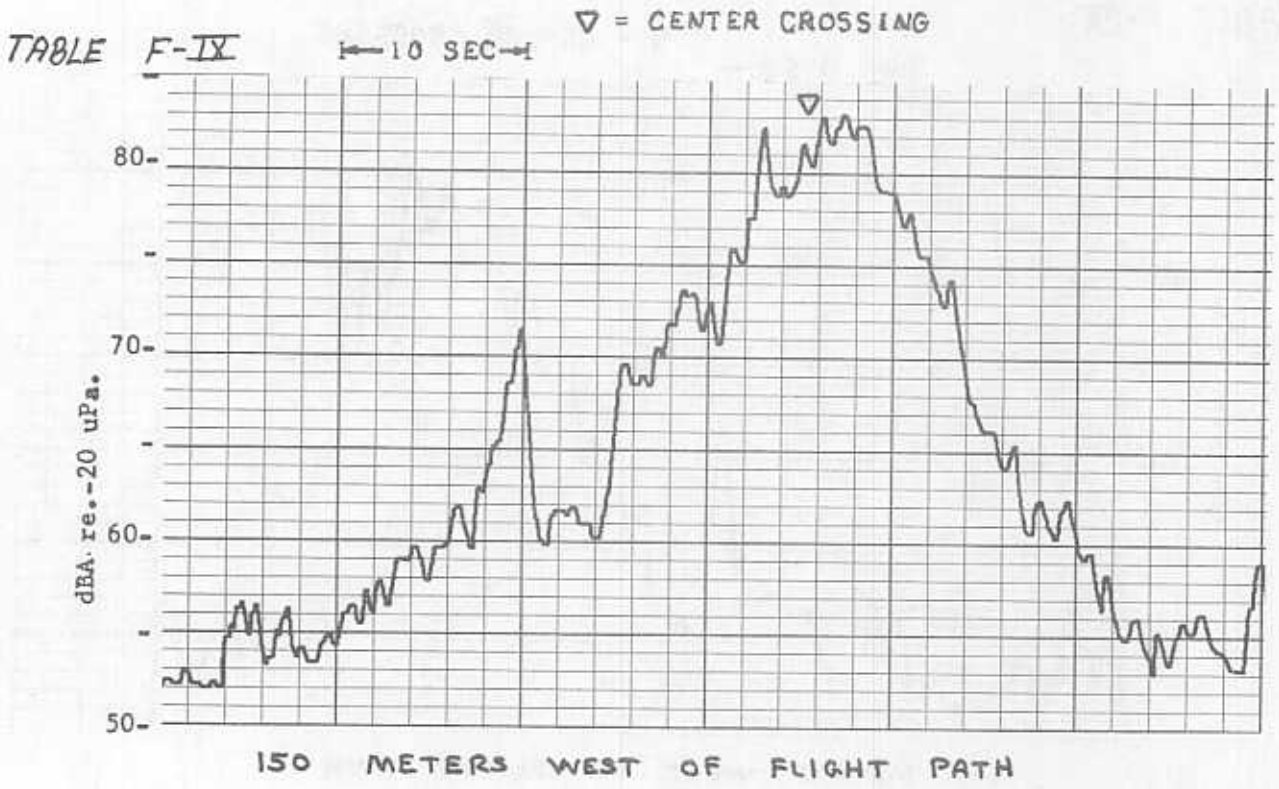
150 METERS WEST OF CENTER LINE

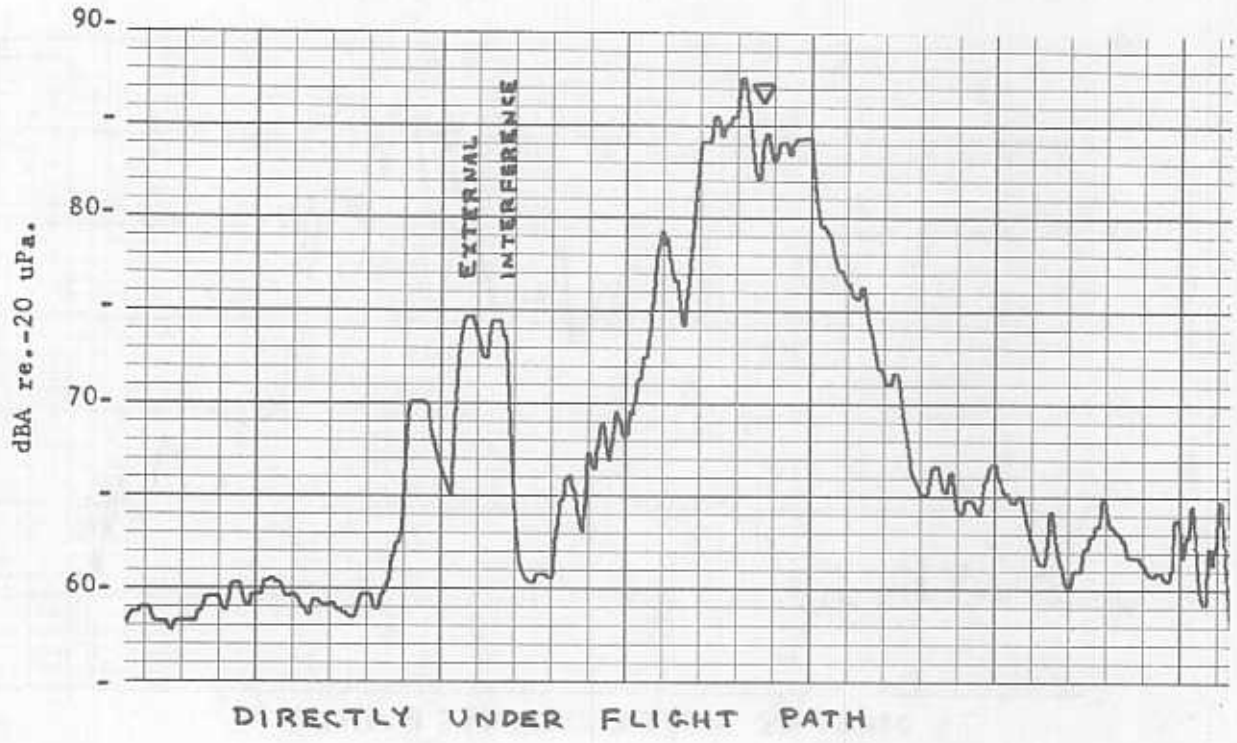


75 METERS WEST OF CENTER LINE

NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
180° HOVER 5 FT RUN 6

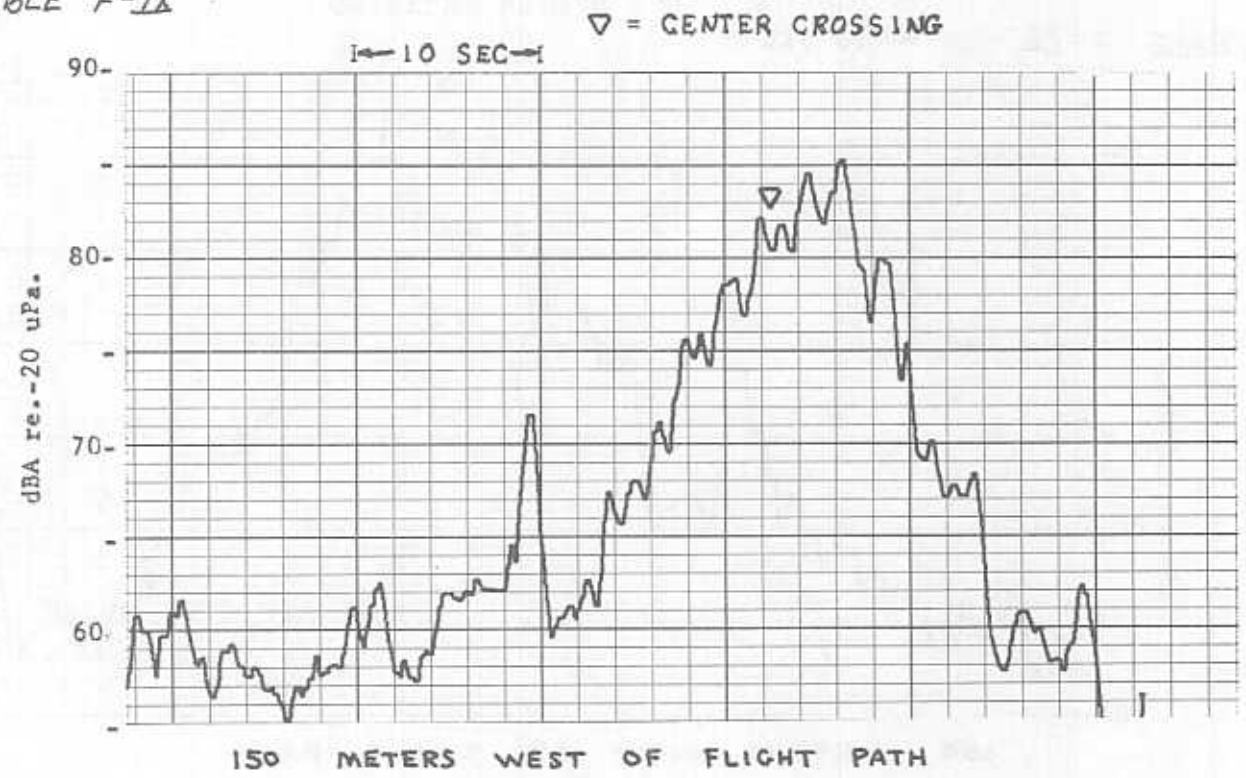
TABLE F-IX

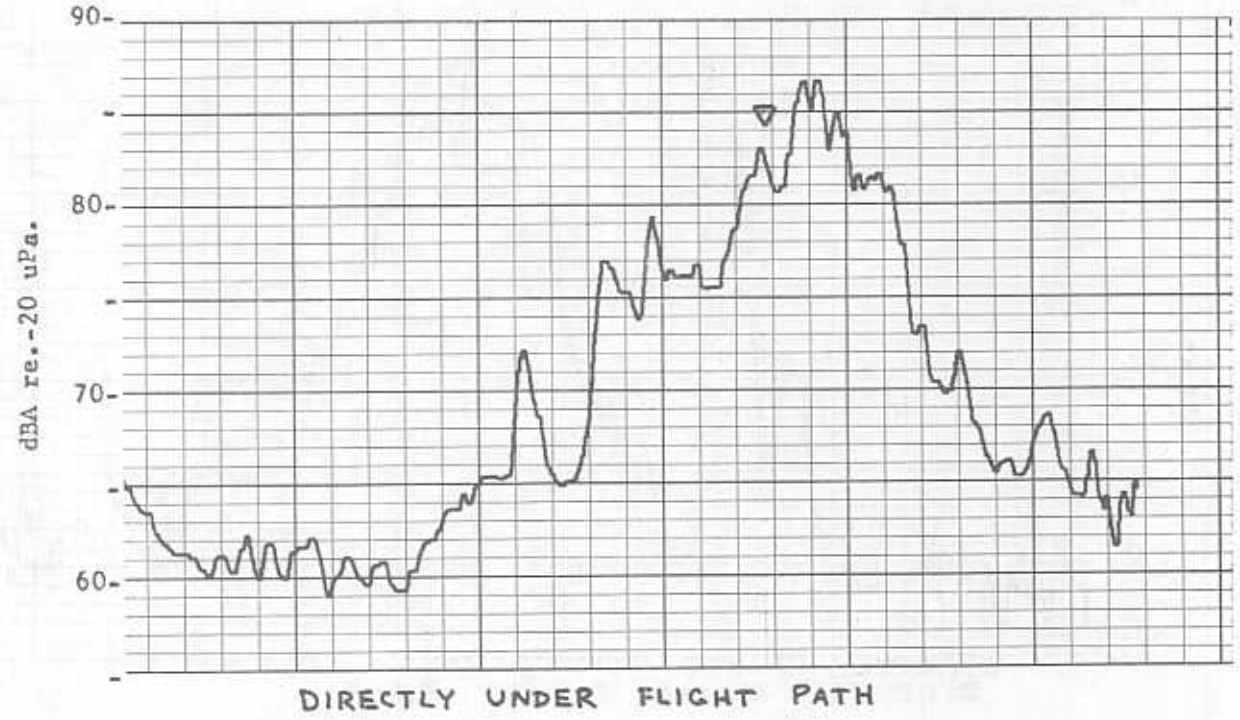




NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
3° APPROACH RUN 31

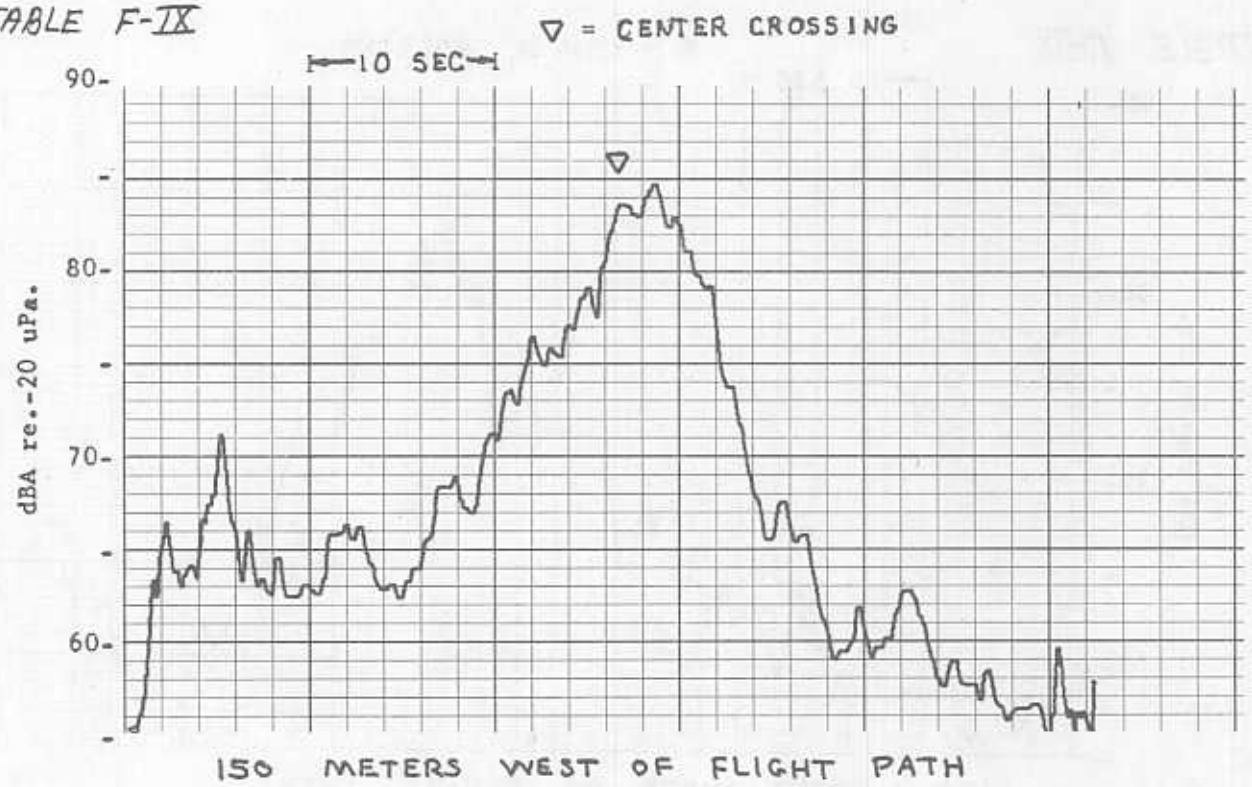
TABLE F-IX

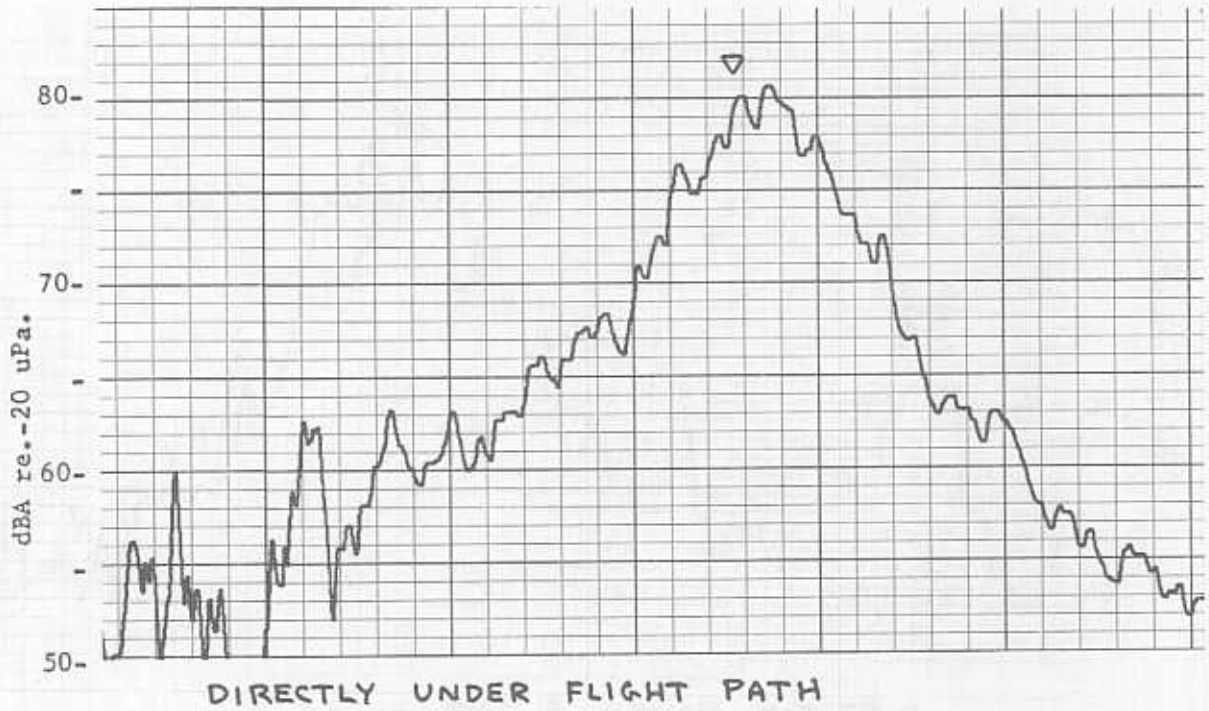




NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
6° APPROACH RUN 21

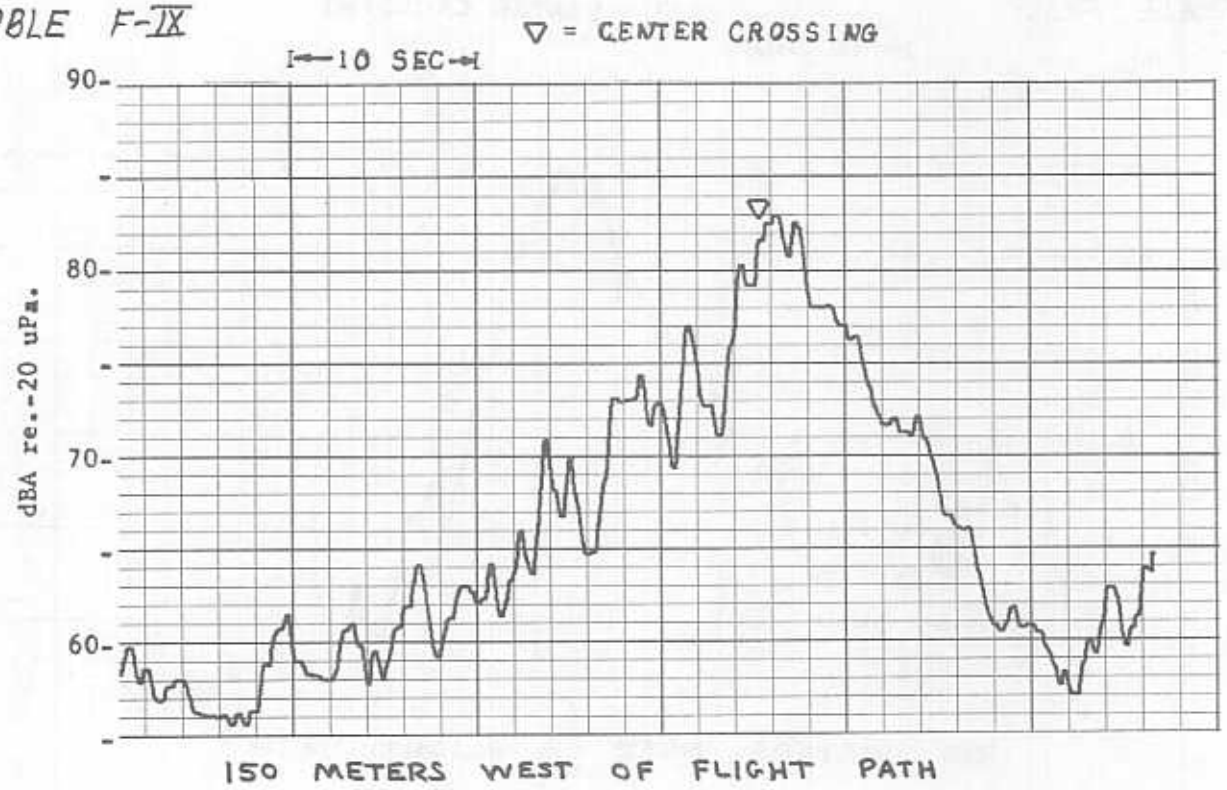
TABLE F-IX

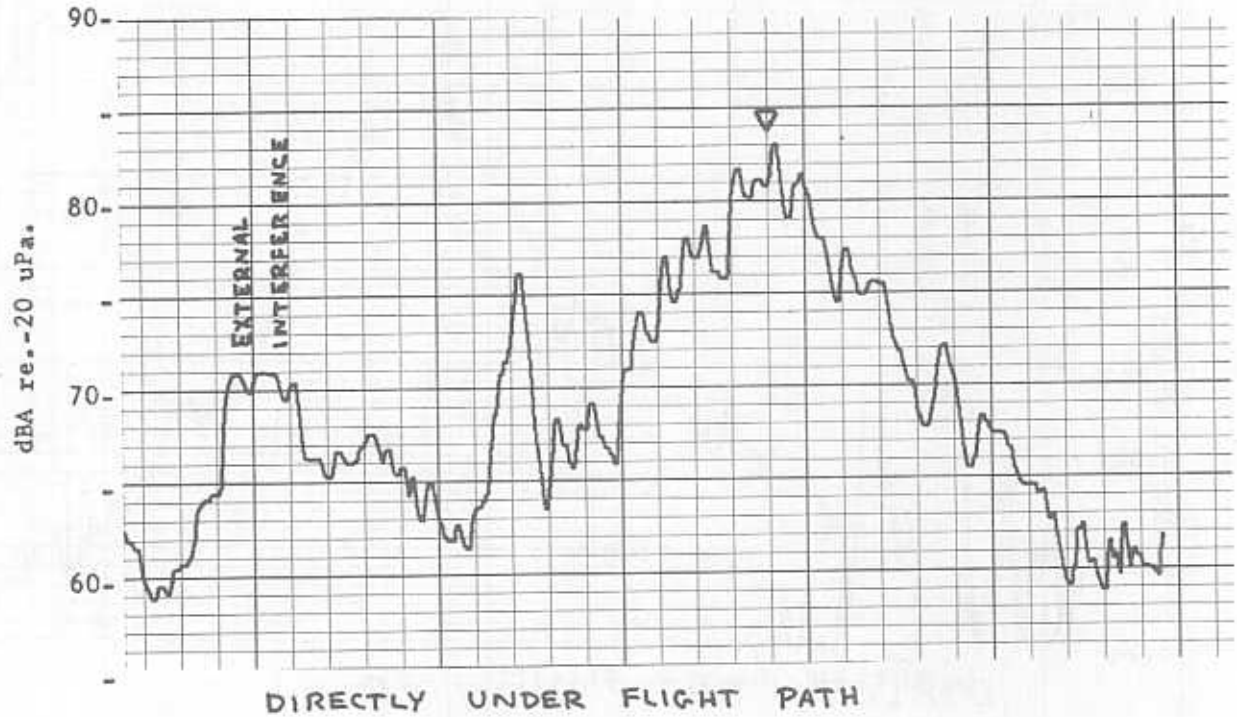




NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
9° APPROACH RUN 15

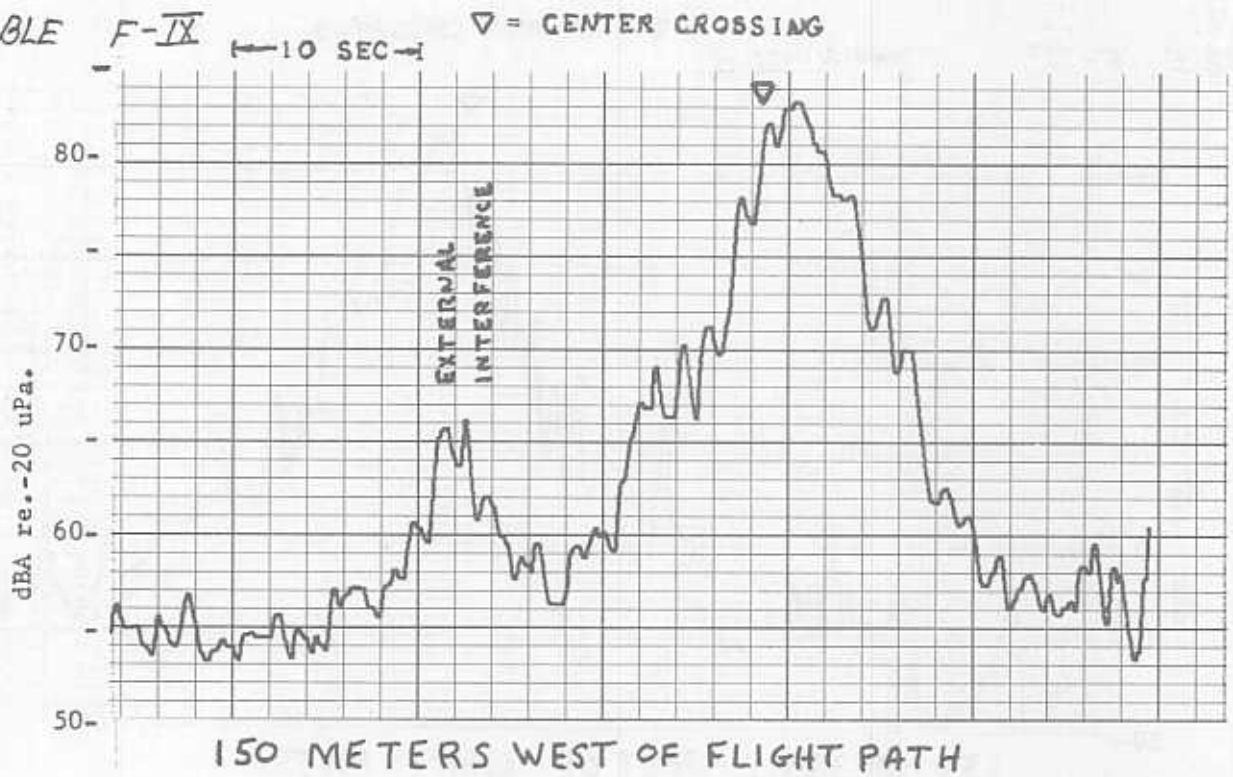
TABLE F-IX



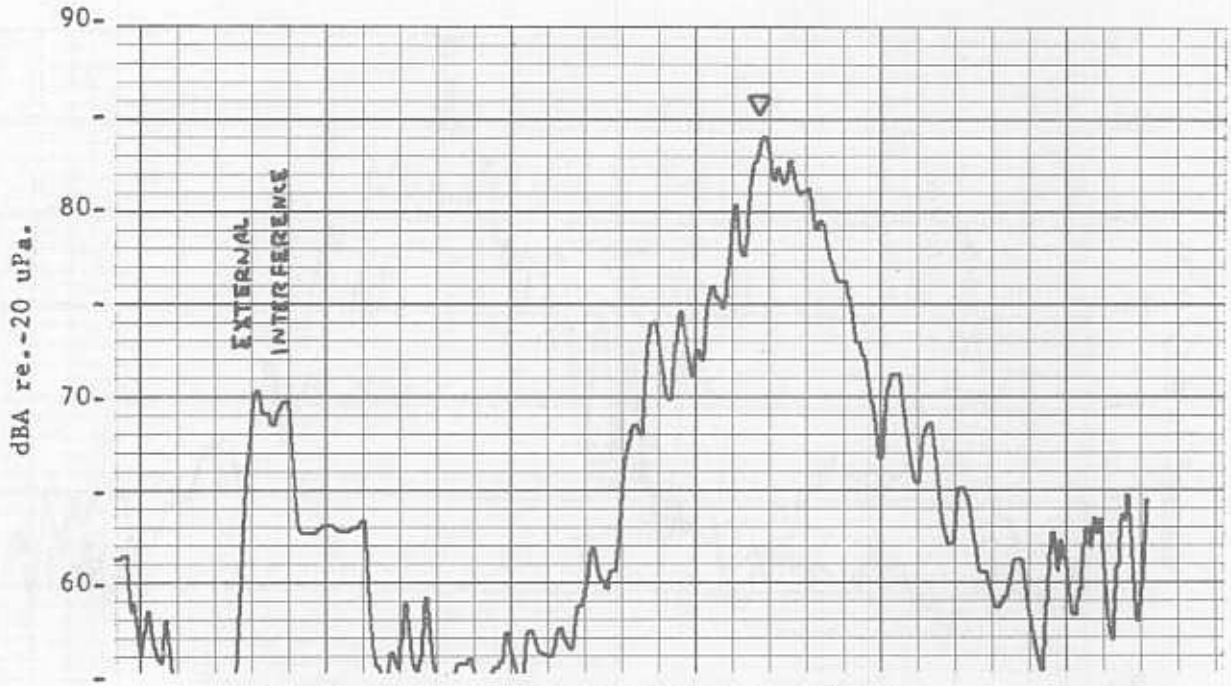


NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
LEVEL FLYOVER - 60 KTS RUN 19

TABLE F-IX



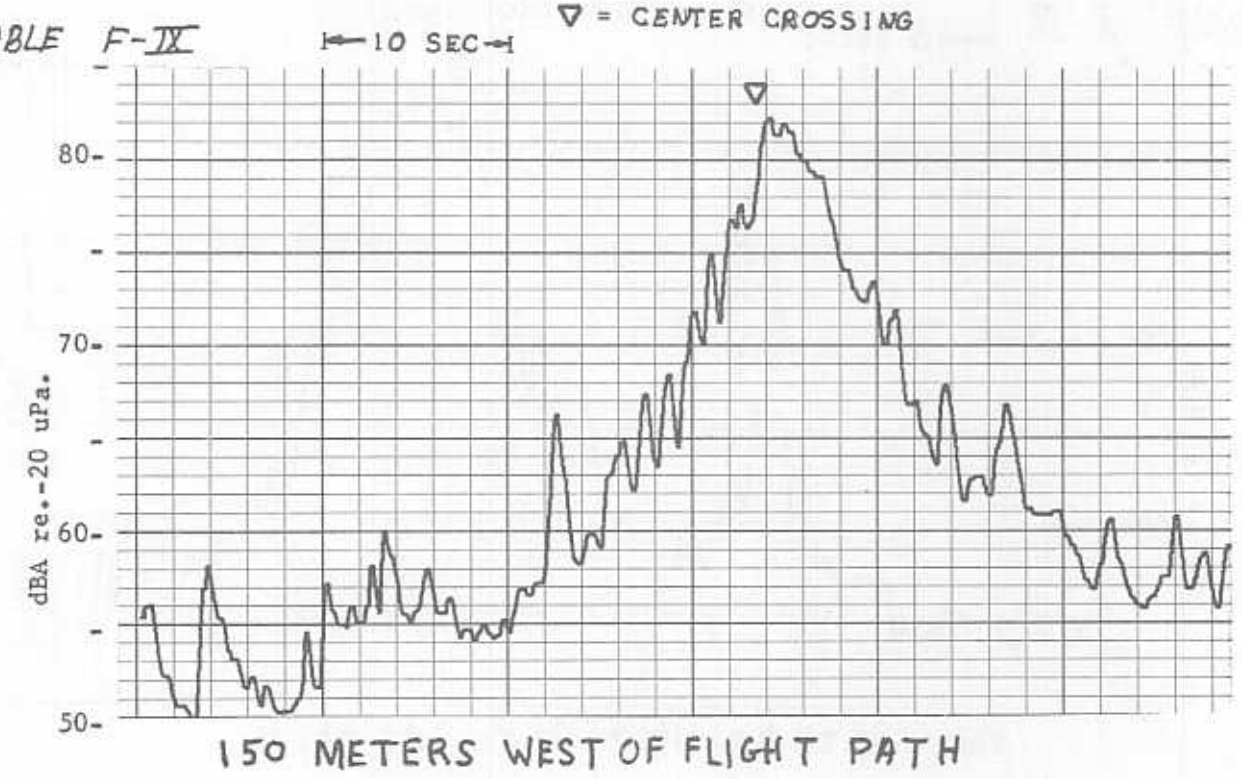
150 METERS WEST OF FLIGHT PATH

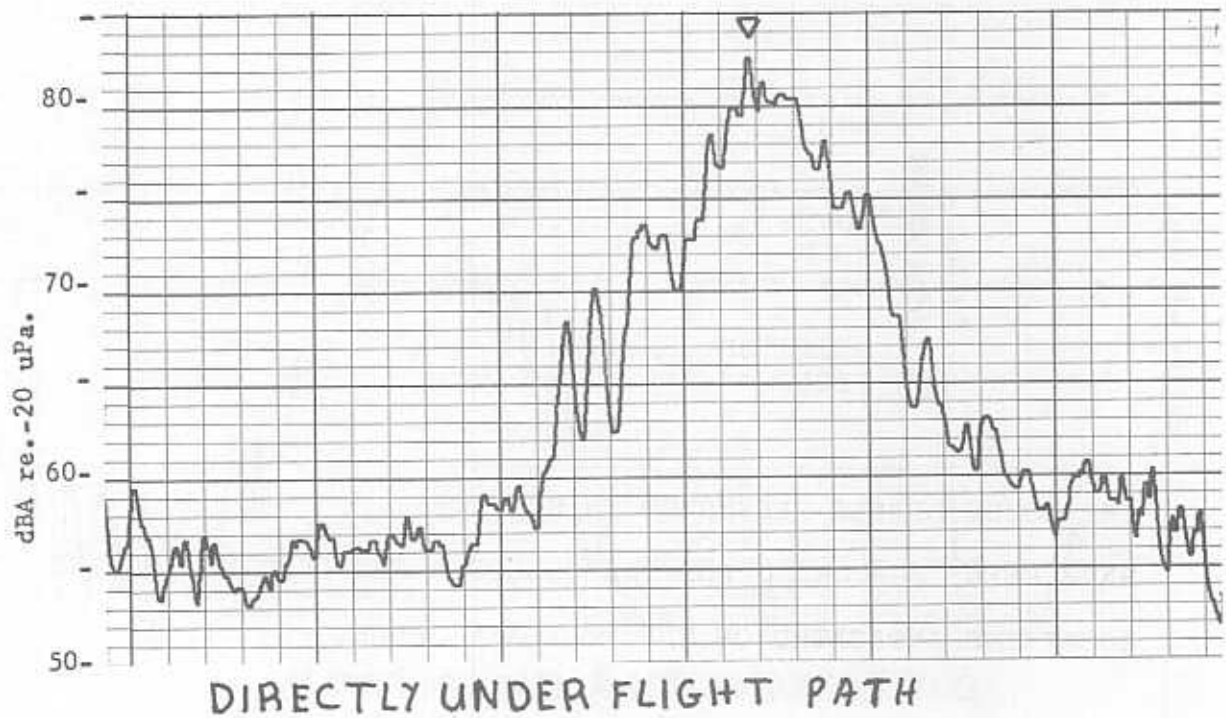


DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
LEVEL FLYOVER - 100 KTS. RUN 27

TABLE F-IX





NOISE LEVEL TIME HISTORIES
SIKORSKY S-61 HELICOPTER
LEVEL FLYOVER - 115 KTS RUN 33

DATA TABLE G

Sikorsky S-64 "Skycrane" (CH-54B)

TEST DATE: 10-28-76 TEST SITE: NASA LANGLEY

SECTION - G	CONTENT	PAGE #
I	RUN LIST	555
II	GROUND AND FLIGHT LOG DATA	558
III	METEOROLOGICAL DATA	561
IV	LEVEL FLYOVER AND APPROACH NOISE DATA	562
V	TIME HISTORIES	564
VI	1/3-OCTAVE BAND SPECTRA--FLYOVER AND APPROACH	598
VII	1/3-OCTAVE BAND SPECTRA--5 FOOT HOVER	632
VIII	MAXIMUM dBA NOISE LEVEL (ALL RUNS)	668
IX	SELECTED dBA TIME HISTORIES--GRAPHIC PLOTS	672

THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE G-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION		MICROPHONE LOCATION			
			WEST		EAST	
			150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
	Heavy (with Truck)					
43	9° Approach	60 Kts	X	X		X
49	Level Flyover	60 Kts		X		
50	↓	↓		X		
51	6° Approach	60 Kts	X	X		X
55	Level Flyover	85 Kts		X		
66	↓	↓		X		
67		95 Kts	X	X	X	X
68		↓	X	X	X	X
69	↓	↓	X	X	X	X
70	3° Approach	60 Kts		X		
	Light (without Truck)					
74	6° Approach	60 Kts		X		
76	Level Flyover	85 Kts		X		
77	↓	↓		X		
78		95 Kts		X		
79		↓		X		
80		105 Kts	X	X		X
81	↓	↓	X	X		X
	Microphone Locations		Over Concrete	Over Concrete	Over Grass	Over Concrete

GENERAL COMMENTS

- There were no problems encountered while testing the Sikorsky S-64 "Skycrane" (CH-54B).
- The weather conditions during the test were very windy with gusts in the 10-15 mph range.
- The S-64 "Skycrane" used a 13,500 lb. army truck for ballast. Because the truck could easily be detached from the helicopter, noise data was taken both with and without the truck.
- Because the S-64 "Skycrane's" gross weight during testing was greatly effected by its rate of fuel consumption, a table has been inserted which provides a log of the gross weight as a function of time.

TABLE G-II Ground and Flight Log Data

Helicopter Model: Sikorsky S-64 "Skycrane" Military Designation CH-54 B Registration Number: 18466 Test Date: Oct. 28, 1976

Run	Time	Target Conditions: Type	Target Conditions: Velocity	Target Conditions: Altitude over Mics.	Actual Conditions: dB A	Actual Conditions: Heading	Actual Conditions: Air Speed	Actual Conditions: Rate of Decent	Actual Conditions: Mp or Torque	Actual Conditions: Altitude over Mics.	Actual Conditions: RPM	Actual Conditions: OAT	Ground Weather: Temp	Ground Weather: RH	Ground Weather: Wind Speed	Ground Weather: Wind Direction	Comments
1-34	Sikorsky S-61 Tested (SH-3) Sikorsky S-64 "Skycrane" tested with Army Truck																
35	11:33	Hover	0	5 ft	—	0° N	0	0	52%	5 ft	100%	5°C	41°F	52%	10-20 kts	N	50' 50' 50 ft. off mic. plane
36	11:35	↓	↓	↓	94.0	45°	↓	↓	↓	↓	↓	↓					
37	11:36				100.0	90° E											
38	11:38				104.5	135°						12°C					
39	11:40				104.0	180° S			54			↓					
40	11:42				94.5	225°			53			8°C					
41	11:43				94.0	270° W			50								
42	11:45	↓	↓	↓	92.5	315°	↓	↓	48	↓	↓	↓					
43	11:59	9° App.	60 kts.	400 ft.	90.0	S	60 kts	950 ft/min	16	400 ft	100%	0°C					good run
44	12:04	↓	↓	↓	88.0	↓	↓	↓	↓	↓	↓	↓					good run
45	12:07	Hover	0	500 ft.	94.0	0° N	0	0	52	500 ft.	100%	3°C	45°F	—	—	N	100' 100' 100' off mic. plane
46	12:08	↓	↓	↓	90.0	90° E			55			4°C					100' 100' 100' off mic. plane
47	12:09				94.0	90° E											100' 100' 100' off mic. plane and rotating
48	12:10	↓	↓	↓	—	—	↓	↓	↓	↓	↓	↓					Abort
49	12:14	Level Flyover	60 kts	500 ft.	85.0	S	60 kts.	0	38	500 ft.	100%	3° C					need to lengthen approach
50	12:15	↓	↓	↓	85.3	↓	↓	↓	24	↓	↓	↓					run length looks good
51	12:21	6° App.	60 kts	400 ft.	89.5	S	60 kts	640 ft/min	18	400 ft	100%	1°C					good run
52	12:25	↓	↓	↓	89.0	↓	↓	↓	↓	↓	↓	2°C					good run
53	1:25	Level Flyover	85 kts	500 ft.	—	S	85 kts	0	—	500 ft	100%	—					Abort
54	1:30	↓	↓	↓	—	↓	↓	↓	—	↓	↓	—					Abort
55	1:34				85.5				40			2°C					
66	2:28	↓	↓	↓	86.5	↓	↓	↓	23	↓	↓	4°C					
56-65	Hughes 500 C Tested																

TABLE G-II Ground and Flight Log Data

Helicopter Model: Sikorsky S-64 "Skycrane" Military Designation CH-54 B Registration Number: Test Date: Oct. 28, 1976

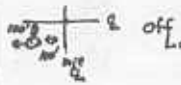
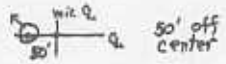
Run	Time	Target Conditions: Type	Target Conditions: Velocity	Target Conditions: Altitude over mics.	Actual Conditions: dB A	Actual Conditions: Heading	Actual Conditions: Air Speed	Actual Conditions: Rate of Decent	Actual Conditions: Mp or Torque	Actual Conditions: Altitude over mics.	Actual Conditions: RPM	Actual Conditions: OAT	Ground Weather: Temp.	Ground Weather: RH	Ground Weather: Wind Speed	Ground Weather: Wind Direction	Comments
67	2:23	Level Flyover	95 kts.	500 ft.	87.0	S	95 kt.	0	40%	500 ft.	100%	4°C	47°F	42%	7-15 kts. Avg.	N	
68	2:35	↓	↓	↓	87.0	↓	↓	↓	↓	↓	↓	5°C			Gusts to 20 kts.		
69	2:40				87.5							↓					
70	2:45	3° App.	60 kts.	400 ft.	88.2	S	60 kt.	300 ft/min.	33%	400 ft.	100%	4°C					good run
71	2:49	↓	↓	↓	89.3	↓	↓	↓	↓	↓	↓	↓					good run
Sikorsky S-64 "Skycrane" tested without Army truck																	
72	3:00	Hover	0	500 ft.	87.0	0° N	0	0	26%	500 ft.	100%	5°C	48°F	38%	10-12 kts. Avg.	N	 off Hover Location
73	3:01	↓	↓	↓	93.5	90° E	↓	↓	30	↓	↓	↓			Gusts to 18 kts.		
74	3:04	6° App.	60 kts.	400 ft.	86.2	S	60 kts.	640 ft/min.	15%	400 ft.	100%	4°C					good run
75	3:07	↓	↓	↓	86.5	↓	↓	↓	↓	↓	↓	↓					good run
76	3:10	Level Flyover	85 kts	500 ft.	87.5	S	85 kt.	0	24	500 ft.	100%	6°C					
77	3:14	↓	↓	↓	87.5	↓	↓		↓								
78	3:16	Level Flyover	95 kts	500 ft.	88.5	S	95 kt.		30								
79	3:17	↓	↓	↓	89.5	↓	↓		29								
80	3:23	Level Flyover	105 kts	500 ft.	89.0	S	105 kt.		35								
81	3:25	↓	↓	↓	89.6	↓	↓	↓	34	↓	↓	↓					
82-85	Hughes 500 C Tested																
86	4:03	Hover	0	5 ft.	—	0° N	0	0	27	5 ft.	100%	8°C					 50' off center
87	4:04				—	45°			27								
88	4:05				—	90° E			28								
89	4:06				—	135°			29								
90	4:07				—	180° S			30								
91	4:08				—	225°			29								Abort
92	4:09				—	225°			29								
93	4:10	↓	↓	↓	—	270° W	↓	↓	29	↓	↓	↓					

TABLE G-IV

SIKORSKY S-64 "SKYCRANE" (CH-54B)

LOG OF GROSS WEIGHT vs. TIME

Time	Run#	Army Truck	Fuel (lbs.)	Total Gross Weight
11:33	35	13,500	6600	42,895
12:00	44	13,500	5000	41,295
12:20	51	13,500	3500	39,795
12:36	52	13,500	2600	38,895
----------	REFUEL	----------		
2:30	66	13,500	4900	41,195
2:50	71	13,500	3400	39,695
----------	REMOVED ARMY TRUCK	----------		
3:06	75	-	2800	25,595
3:20	80	-	2100	24,895
4:05	88	-	1400	24,195
4:13	93	-	1000	23,795

TABLE G-III

Meteorological Data
Langley Air Force Base

October 28, 1976

TIME (hours)	TEMP. (of)	BAR. PRESS. (mmhs)	REL. HUM. (%)	WIND SPEED (mph)	WIND DIRECTION (degrees)	REMARKS
0800	53	778	62	5-19	0	Sky - Partly Cloudy
0815	53		66	10-19	20	
0830	53		67	16-23	25	
0845	53		68	14-22	20	
0900	54		69	9-19	30	
0915	54		70	11-19	30	
0930	54		69	13-22	25	
0945	54		69	8-20	20	
1000	54		69	7-16	30	
1015	54		68	12-18	30	
1030	55		67	18-23	40	
1130	54		65	14-18	10	
1145	56		64	10-16	30	
1200	56		64	8-12	35	Sky - Clear
1215	55		63	8-14	20	
1230	56		60	8-12	20	
1245	56		58	13-18	25	
1300	57	774	56	8-15	40	
1315	58		53	8-16	40	
1330	57		52	5-12	50	
1345	57		50	8-15	40	Sky - Clear
1400	57		48	8-12	45	
1415	57		48	5-12	15	
1430	57		47	5-12	50	
1445	58		48	5-9	30	
1500	57	772	47	5-8	20	
1515	57		47	6-12	25	
1530	57		47	5-15	60	
1545	58		48	8-11	30	
1600	58		47	8-10	50	
1615	57		46	9-11	60	
1630	56		46	5-8	40	
1645	57		46	2-9	40	
1700	57		47	1-6	25	
1715	56		48	2-7	40	

TABLE G-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

SIKORSKY S-64

OCTOBER 28 1976

MICROPHONE OFFSET 150 METERS WEST
(DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
43	100.0	86.6	91.9	95.4	99.8	102.3	83.1	16.0	15.0	2.5
51	98.0	85.7	91.1	94.7	98.8	100.6	82.9	13.5	13.5	1.8
67	96.8	87.8	92.0	94.8	99.2	99.2	84.8	10.5	11.5	.0
68	96.0	85.7	89.7	94.8	97.2	97.3	82.9	12.5	14.5	1.1
69	95.7	87.6	91.4	93.9	98.4	98.4	84.0	9.5	12.0	.0
80	95.3	86.8	90.6	93.3	98.2	98.2	83.7	9.0	11.5	.0
81	95.9	87.7	91.4	93.2	98.6	98.6	83.9	9.5	13.0	.0

MICROPHONE OFFSET 150 METERS EAST

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
43	97.0	83.6	87.7	92.2	95.3	97.5	78.7	26.5	27.0	2.4
51	96.6	82.7	86.9	91.7	94.5	94.7	77.9	31.0	33.5	1.1
67	96.2	86.7	90.6	94.6	98.0	98.0	83.2	12.5	14.0	.0
68	95.5	84.6	88.9	95.4	96.3	97.5	82.3	12.5	13.0	1.4
69	95.8	86.6	90.2	94.3	97.9	98.4	83.3	11.5	13.0	.5
80	94.0	83.9	88.4	95.5	95.6	95.6	81.0	11.0	14.0	.0
81	93.2	82.8	87.2	94.1	94.6	94.6	79.7	12.0	15.0	.0

TABLE G-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

SIKORSKY S-64

OCTOBER 28 1976

CENTERLINE MICROPHONE - HARD SITE
(DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
43	101.4	88.3	95.3	100.4	102.5	102.6	84.9	15.0	14.0	1.7
49	95.8	84.5	89.4	94.3	96.7	96.7	80.9	16.0	21.0	.0
50	96.8	84.2	90.3	95.1	97.9	97.9	81.1	17.5	22.0	.0
51	99.4	87.0	93.5	98.5	101.1	102.3	83.5	15.5	13.5	1.4
55	94.9	84.4	89.3	96.2	96.7	96.7	80.8	13.0	18.0	.0
66	95.6	85.3	90.2	97.5	98.1	98.1	81.8	11.0	16.0	.0
67	96.7	86.8	91.7	98.4	99.2	99.2	83.2	11.0	16.5	.0
68	96.1	86.7	90.8	99.1	98.4	98.4	82.9	11.0	15.5	.0
69	95.3	86.6	91.8	97.5	98.9	98.9	83.6	8.5	10.0	.0
70	99.5	88.2	93.9	99.5	101.4	101.4	84.0	16.0	16.5	.0
74	100.0	86.0	92.5	99.0	100.1	101.3	82.8	18.5	18.0	2.3
76	98.2	87.3	92.3	99.4	100.2	100.8	84.9	10.0	10.0	1.0
77	97.1	87.3	92.3	97.5	100.1	100.5	84.2	10.5	11.0	.6
78	98.1	88.2	93.9	100.0	101.7	102.9	85.3	9.0	7.5	1.2
79	98.1	89.3	94.4	99.4	102.3	103.2	85.8	8.0	8.0	1.0
80	97.7	88.5	94.2	100.2	102.3	103.1	84.8	8.0	8.0	.8
81	98.0	89.6	94.7	100.6	102.7	103.4	85.8	8.0	7.0	.7

CENTERLINE MICROPHONE - SOFT SITE

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
67	95.5	86.3	90.9	97.3	98.9	98.9	82.5	10.5	12.0	.0
68	95.2	85.3	89.8	97.7	97.6	97.6	81.7	11.0	14.0	.0
69	95.0	86.2	90.7	96.7	98.5	98.5	83.0	7.5	13.5	.0

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 43 9 DEGREE APPROACH MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.7	77.6	86.6	86.1	87.4	16.4	7.9
2	73.1	79.6	87.3	88.1	89.9	15.0	6.5
3	75.6	81.6	88.3	89.5	91.1	13.9	6.0
4	76.7	82.4	89.2	90.3	91.8	13.6	5.7
5	77.5	83.2	89.9	91.0	92.3	13.5	5.7
6	77.9	83.6	90.1	91.4	92.6	13.5	5.7
7	78.0	83.8	90.3	91.4	91.4	13.4	5.8
8	78.7	84.2	90.6	92.1	92.1	13.4	5.5
9	79.7	85.1	91.1	92.8	92.8	13.1	5.4
10	79.9	85.3	91.3	93.1	94.2	13.2	5.4
11	79.4	84.8	91.2	92.7	94.1	13.3	5.4
12	79.6	85.2	91.4	93.0	94.5	13.4	5.6
13	80.8	86.3	91.7	93.9	95.2	13.1	5.5
14	81.8	87.4	92.2	95.0	95.0	13.2	5.6
15	82.1	87.9	92.5	95.6	95.6	13.5	5.8
16	82.7	88.8	93.0	96.2	96.2	13.5	6.1
17	83.2	89.3	93.5	96.9	98.2	13.7	6.1
18	84.3	90.2	93.9	97.8	100.1	13.5	5.9
19	84.8	90.3	93.8	98.1	100.8	13.3	5.5
20	85.7	90.9	93.8	98.8	101.5	13.1	5.2
21	86.3	91.6	94.5	99.5	102.1	13.2	5.3
22	86.6	91.9	95.0	99.8	102.3	13.2	5.3
23	86.2	91.5	95.1	99.5	101.7	13.3	5.3
OH→24	85.7	91.1	95.3	99.2	101.4	13.5	5.4
25	85.5	90.8	95.2	98.8	100.8	13.3	5.3
26	85.6	91.0	95.4	99.0	100.7	13.4	5.4
27	85.7	91.0	95.4	98.9	100.2	13.2	5.3
28	85.4	90.6	95.3	98.7	98.7	13.3	5.2
29	84.5	89.5	94.6	97.6	97.6	13.1	5.0
30	83.1	88.0	93.4	96.0	96.0	12.9	4.9
31	81.6	86.6	92.5	94.5	94.5	12.9	5.0
32	80.5	85.5	91.4	93.6	93.6	13.1	5.0
33	79.7	84.8	90.6	93.2	93.2	13.5	5.1
34	78.7	83.7	89.4	91.9	93.1	13.2	5.0
35	77.1	82.4	88.2	90.3	90.3	13.2	5.3
36	74.2	80.0	87.1	88.0	89.2	13.8	5.8
37	71.9	78.3	86.1	86.3	87.9	14.4	6.4
38	70.4	77.5	86.7	85.4	86.5	15.0	7.1

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 51 6 DEGREE APPROACH MIC.150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	72.3	78.7	86.2	87.4	87.4	15.1	6.4
2	72.7	79.1	86.7	87.7	88.9	15.0	6.4
3	73.6	79.6	86.9	88.2	89.4	14.6	6.0
4	75.0	80.9	87.2	89.4	90.9	14.4	5.9
5	77.2	82.4	87.4	90.9	90.9	13.7	5.2
6	79.6	84.9	88.6	92.7	92.7	13.1	5.3
7	81.6	87.1	90.1	94.3	95.4	12.7	5.5
8	82.2	87.8	90.8	94.9	96.3	12.7	5.6
9	82.1	87.8	91.4	94.9	96.4	12.8	5.7
10	81.3	86.9	91.0	94.4	94.4	13.1	5.6
11	81.1	86.7	90.9	94.2	94.2	13.1	5.6
12	81.5	86.9	90.8	94.5	94.5	13.0	5.4
13	82.9	88.1	91.7	95.7	95.7	12.8	5.2
14	84.2	89.5	92.8	97.2	98.8	13.0	5.3
15	85.3	90.7	93.6	98.3	100.4	13.0	5.4
16	85.7	91.1	93.9	98.8	100.6	13.1	5.4
17	85.7	91.0	94.0	98.6	100.1	12.9	5.3
18	85.0	90.3	94.0	97.9	99.2	12.9	5.3
OH → 19	84.5	89.8	94.2	97.6	99.2	13.1	5.3
20	84.5	89.4	94.4	97.4	99.0	12.9	4.9
21	85.0	89.6	94.5	97.0	98.3	12.0	4.6
22	85.2	89.7	94.7	96.9	96.9	11.7	4.5
23	84.6	89.3	94.6	96.6	96.6	12.0	4.7
24	83.9	88.7	94.3	96.1	96.1	12.2	4.8
25	82.9	87.6	93.4	95.1	95.1	12.2	4.7
26	82.2	86.8	92.3	94.4	94.4	12.2	4.6
27	80.6	85.3	91.0	93.1	93.1	12.5	4.7
28	79.0	83.8	89.6	91.7	91.7	12.7	4.8
29	76.8	82.0	88.5	90.1	90.1	13.3	5.2
30	75.4	80.8	87.8	88.9	90.1	13.5	5.4
31	74.0	79.8	87.1	88.0	89.1	14.0	5.8
32	73.8	79.4	86.6	87.6	87.6	13.8	5.6
33	73.0	78.9	85.9	87.0	88.2	14.0	5.9

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

with Truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	69.9	78.8	88.7	86.7	86.7	16.8	8.9
	2	73.1	79.6	88.9	87.6	87.6	14.5	6.5
	3	75.4	81.0	89.2	88.8	88.8	13.4	5.6
	4	76.6	81.9	89.6	89.9	89.9	13.3	5.3
	5	79.1	83.9	90.4	91.6	93.1	12.5	4.8
	6	81.3	85.8	91.5	93.7	95.0	12.4	4.5
	7	83.0	86.9	92.0	94.9	96.1	11.9	3.9
	8	84.0	87.9	92.5	95.9	97.2	11.9	3.9
	9	85.2	89.0	92.7	97.1	97.1	11.9	3.8
	10	86.2	90.1	92.9	97.9	97.9	11.7	3.9
	11	86.5	90.3	92.4	97.7	97.7	11.2	3.8
	12	86.2	89.7	91.8	97.1	97.1	10.9	3.5
	13	86.4	90.2	92.2	97.2	97.2	10.8	3.8
	14	87.2	91.1	93.1	98.3	98.3	11.1	3.9
OH →	15	87.8	91.9	94.0	99.1	99.1	11.3	4.1
	16	87.7	92.0	94.5	99.2	99.2	11.5	4.3
	17	87.4	91.7	94.8	98.9	98.9	11.5	4.3
	18	86.6	90.8	94.7	98.1	98.1	11.5	4.2
	19	85.1	89.2	94.0	96.6	96.6	11.5	4.1
	20	83.0	87.4	92.7	94.8	94.8	11.8	4.4
	21	81.5	85.9	91.3	93.4	93.4	11.9	4.4
	22	80.5	84.7	90.0	92.3	92.3	11.8	4.2
	23	79.0	83.1	88.7	91.0	91.0	12.0	4.1
	24	76.9	81.6	87.6	89.5	89.5	12.6	4.7
	25	75.1	80.4	86.5	88.4	89.4	13.3	5.3
	26	74.6	79.9	85.8	87.9	87.9	13.3	5.3
	27	73.6	79.2	84.8	87.4	87.4	13.8	5.6

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

With Truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	71.6	78.9	88.3	86.8	86.8	15.2	7.3
	2	72.5	79.5	88.9	87.3	87.3	14.8	7.0
	3	73.1	80.0	89.6	87.7	88.9	14.6	6.9
	4	75.0	81.4	90.9	88.8	88.8	13.8	6.4
	5	78.7	83.5	91.6	91.3	93.3	12.6	4.8
	6	80.2	84.9	92.3	92.4	94.3	12.2	4.7
	7	81.0	85.7	92.4	93.2	94.7	12.2	4.7
	8	82.5	86.9	93.2	95.0	95.0	12.5	4.4
	9	83.9	88.0	94.1	96.3	97.3	12.4	4.1
	10	85.0	89.1	94.8	97.2	97.2	12.2	4.1
	11	84.9	89.0	94.5	97.0	97.0	12.1	4.1
	12	84.5	88.8	93.4	96.3	96.3	11.8	4.3
	13	84.5	88.4	92.2	95.8	95.8	11.3	3.9
	14	85.1	89.1	91.9	96.2	96.2	11.1	4.0
	15	85.7	89.7	92.1	96.9	96.9	11.2	4.0
OH →	16	85.6	89.6	92.3	96.9	96.9	11.3	4.0
	17	85.3	89.3	92.6	96.5	96.5	11.2	4.0
	18	84.5	88.7	93.0	96.1	96.1	11.6	4.2
	19	84.1	88.3	93.3	96.0	96.0	11.9	4.2
	20	83.4	87.8	93.3	95.4	95.4	12.0	4.4
	21	82.7	87.0	92.8	94.6	94.6	11.9	4.3
	22	81.6	85.9	91.7	93.2	93.2	11.6	4.3
	23	80.3	84.3	90.4	92.2	92.2	11.9	4.0
	24	79.4	83.5	89.1	91.3	91.3	11.9	4.1
	25	78.2	82.8	88.1	90.6	90.6	12.4	4.6
	26	76.9	82.0	87.1	89.7	89.7	12.8	5.1
	27	76.6	81.8	86.3	89.3	89.3	12.7	5.2
	28	75.5	80.7	85.2	88.4	89.7	12.9	5.2
	29	74.1	79.6	84.2	87.4	88.5	13.3	5.5
	30	71.8	77.9	83.2	86.2	86.2	14.4	6.1
	31	71.3	77.6	82.7	85.8	86.9	14.5	6.3

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	72.1	79.0	89.2	87.1	87.1	15.0	6.9
	2	74.6	80.5	89.9	88.5	89.5	13.9	5.9
	3	76.5	81.7	90.0	89.6	91.3	13.1	5.2
	4	78.3	83.1	90.2	90.9	92.4	12.6	4.8
	5	79.9	84.1	90.0	92.1	92.1	12.2	4.2
	6	81.0	85.3	90.6	93.6	94.6	12.6	4.3
	7	82.3	86.3	91.0	94.4	94.4	12.1	4.0
	8	83.1	87.6	91.6	95.3	95.3	12.2	4.5
	9	84.2	88.5	91.8	95.8	95.8	11.6	4.3
	10	85.9	90.0	92.4	97.1	97.1	11.2	4.1
	11	87.1	90.9	93.0	97.7	97.7	10.6	3.8
	12	87.6	91.4	93.3	98.4	98.4	10.8	3.8
OH →	13	87.1	91.2	93.3	98.4	98.4	11.3	4.1
	14	86.4	90.8	93.5	98.0	98.0	11.6	4.4
	15	85.5	90.1	93.9	97.3	97.3	11.8	4.6
	16	84.5	89.2	93.8	96.4	96.4	11.9	4.7
	17	83.3	87.9	93.3	95.3	95.3	12.0	4.6
	18	82.1	86.7	92.2	94.2	94.2	12.1	4.6
	19	81.2	85.7	90.9	93.3	93.3	12.1	4.5
	20	80.1	84.6	89.6	92.4	92.4	12.3	4.5
	21	79.0	83.3	88.3	91.0	91.0	12.0	4.3
	22	77.6	82.0	87.0	89.7	89.7	12.1	4.4
	23	76.3	81.0	85.9	88.9	90.2	12.6	4.7
	24	75.3	80.4	85.2	88.2	89.7	12.9	5.1
	25	74.3	79.6	84.4	87.5	87.5	13.2	5.3

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 43 9 DEGREE APPROACH MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	66.7	75.5	83.4	84.3	84.3	17.6	8.8
	3	68.8	76.5	83.9	85.2	85.2	16.4	7.7
	5	70.4	77.1	84.4	85.9	85.9	15.5	6.7
	7	73.5	78.7	84.7	87.4	87.4	13.9	5.2
	9	74.3	79.3	85.8	88.0	88.0	13.7	5.0
	11	73.4	78.6	86.2	87.4	87.4	14.0	5.2
	13	72.4	78.4	86.5	86.9	86.9	14.5	6.0
	15	73.7	79.2	86.9	87.7	87.7	14.0	5.5
	17	75.0	80.1	87.6	88.6	88.6	13.6	5.1
	19	72.4	78.6	87.8	87.0	88.2	14.6	6.2
	21	70.8	78.1	88.2	86.4	87.9	15.6	7.3
	23	71.4	78.5	88.8	86.8	88.1	15.4	7.1
	25	71.6	78.8	89.5	87.0	87.0	15.4	7.2
	27	73.9	79.8	89.6	87.6	87.6	13.7	5.9
	29	75.9	81.2	90.2	89.2	90.2	13.3	5.3
	31	77.2	82.3	91.1	90.0	91.1	12.8	5.1
	33	79.8	84.1	92.1	91.9	93.2	12.1	4.3
	35	82.7	86.7	92.0	94.3	96.5	11.6	4.0
	37	83.2	87.4	91.9	94.8	97.1	11.6	4.2
	39	80.9	85.8	90.3	93.2	94.7	12.3	4.9
OH →	41	82.7	87.1	90.0	94.7	95.8	12.0	4.4
	43	82.9	87.4	90.8	95.3	95.3	12.4	4.5
	45	82.9	87.4	90.9	95.0	96.0	12.1	4.5
	47	81.7	86.5	90.8	94.4	94.4	12.7	4.8
	49	80.3	86.0	90.8	93.8	95.3	13.5	5.7
	51	79.9	85.6	90.3	94.0	94.0	14.1	5.7
	53	78.0	83.7	89.1	92.1	92.1	14.1	5.7
	55	73.8	80.3	87.4	89.2	89.2	15.4	6.5
	57	74.0	80.7	87.7	89.7	91.4	15.7	6.7
	59	74.0	80.5	87.0	89.3	91.5	15.3	6.5
	61	69.6	77.6	84.6	86.3	86.3	16.7	8.0
	63	66.8	75.6	83.0	84.0	84.0	17.2	8.8
	65	65.0	74.5	81.7	83.2	83.2	18.2	9.5

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 51 6 DEGREE APPROACH MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	64.6	75.2	82.9	84.3	84.3	19.7	10.6
	3	66.6	75.6	83.1	84.6	84.6	18.0	9.0
	5	70.7	77.0	83.8	85.5	85.5	14.8	6.3
	7	73.0	78.9	85.5	87.5	88.8	14.5	5.9
	9	72.2	79.4	87.4	87.6	87.6	15.4	7.2
	11	71.0	79.2	87.7	88.0	88.0	17.0	8.2
	13	71.2	79.2	87.1	88.0	88.0	16.8	8.0
	15	70.8	78.5	87.0	87.3	88.6	16.5	7.7
	17	71.3	79.2	88.7	89.0	90.3	17.7	7.9
	19	71.4	78.7	87.7	87.7	87.7	16.3	7.3
	21	73.1	78.8	87.2	87.4	87.4	14.3	5.7
	23	73.9	79.5	88.3	87.8	87.8	13.9	5.6
	25	74.5	80.0	89.2	88.2	88.2	13.7	5.5
	27	74.7	80.4	89.9	89.1	90.6	14.4	5.7
	29	74.6	80.0	89.4	89.0	91.0	14.4	5.4
	31	75.7	81.1	90.4	89.4	89.4	13.7	5.4
	33	78.1	82.7	91.3	90.7	91.8	12.6	4.6
	35	80.5	84.3	91.5	92.1	93.6	11.6	3.8
	37	80.9	85.2	91.5	92.7	92.7	11.8	4.3
	39	81.6	85.9	91.6	93.3	94.4	11.7	4.3
	41	82.0	86.3	91.0	94.0	94.0	12.0	4.3
OH →	43	82.7	86.9	90.5	94.4	94.4	11.7	4.2
	45	82.7	86.8	90.8	94.5	94.5	11.8	4.1
	47	81.8	86.2	90.7	94.2	94.2	12.4	4.4
	49	80.6	85.4	90.1	93.5	93.5	12.9	4.8
	51	79.7	85.0	90.0	93.6	94.7	13.9	5.3
	53	80.0	85.3	89.3	93.3	93.3	13.3	5.3
	55	77.0	82.5	88.0	90.9	92.0	13.9	5.5
	57	75.2	81.3	87.3	89.9	89.9	14.7	6.1
	59	73.6	80.3	86.8	88.8	90.5	15.2	6.7
	61	72.2	79.5	85.9	88.4	89.6	16.2	7.3
	63	70.8	79.1	85.9	87.7	87.7	16.9	8.3
	65	74.9	81.8	87.8	90.2	91.3	15.3	6.9
	67	75.9	82.4	87.5	90.6	92.1	14.7	6.5
	69	69.1	77.2	83.1	85.5	85.5	16.4	8.1
	71	64.6	74.7	80.7	83.4	83.4	18.8	10.1
	73	63.1	73.7	79.5	82.8	82.8	19.7	10.6
	75	60.7	72.6	77.7	.0	.0	-60.6	11.9

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.8	77.5	88.2	85.4	86.5	15.6	7.7
2	70.9	78.2	88.7	85.9	85.9	15.0	7.3
3	73.6	79.6	89.0	87.4	87.4	13.8	6.0
4	76.6	81.0	89.4	89.3	89.3	12.7	4.4
5	79.7	83.0	89.9	91.2	92.4	11.5	3.3
6	80.9	84.2	90.6	92.4	93.9	11.5	3.3
7	80.7	84.5	91.2	92.6	94.1	11.9	3.8
8	80.2	84.5	91.8	92.8	94.2	12.6	4.3
9	81.5	85.9	92.5	94.0	94.0	12.5	4.4
10	82.6	86.8	93.0	94.7	94.7	12.1	4.2
11	83.9	88.0	93.6	95.7	95.7	11.8	4.1
12	84.4	88.5	93.9	96.2	96.2	11.8	4.1
13	85.0	89.1	94.0	96.3	97.5	11.3	4.1
14	85.1	89.4	94.0	96.5	97.5	11.4	4.3
15	85.8	90.0	94.1	97.0	97.5	11.2	4.2
16	86.5	90.6	94.5	97.7	97.7	11.2	4.1
OH → 17	86.7	90.5	94.6	98.0	98.0	11.3	3.8
18	86.4	90.4	94.6	97.9	97.9	11.5	4.0
19	85.8	89.9	93.9	97.4	97.4	11.6	4.1
20	84.7	89.1	92.8	96.6	96.6	11.9	4.4
21	83.4	87.7	91.1	95.2	95.2	11.8	4.3
22	81.7	86.1	89.3	93.5	93.5	11.8	4.4
23	80.6	84.7	87.7	92.4	92.4	11.8	4.1
24	79.2	83.4	86.4	90.9	90.9	11.7	4.2
25	78.8	82.7	85.2	90.4	90.4	11.6	3.9
26	78.3	82.2	84.4	90.1	91.2	11.8	3.9
27	77.5	81.4	83.7	89.8	89.8	12.3	3.9
28	76.7	80.8	83.4	89.3	90.4	12.6	4.1
29	75.3	79.6	82.8	88.3	89.7	13.0	4.3
30	73.7	78.5	82.0	87.2	87.2	13.5	4.8
31	72.1	77.1	80.9	85.6	85.6	13.5	5.0

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	66.8	77.4	88.6	84.8	84.8	18.0	10.6
	2	68.8	78.1	89.1	85.8	85.8	17.0	9.3
	3	72.0	79.3	89.7	87.5	87.5	15.5	7.3
	4	74.9	80.5	90.5	89.0	89.0	14.1	5.6
	5	78.9	83.5	91.8	91.7	92.8	12.8	4.6
	6	82.1	86.2	93.0	94.2	94.2	12.1	4.1
	7	83.0	87.3	93.8	95.2	95.2	12.2	4.3
	8	82.8	87.4	94.2	95.4	95.4	12.6	4.6
	9	82.7	88.0	94.7	95.7	95.7	13.0	5.3
	10	83.2	88.5	95.2	96.0	96.0	12.8	5.3
	11	83.7	88.8	95.4	96.1	97.5	12.4	5.1
	12	83.3	88.0	95.2	95.5	96.8	12.2	4.7
	13	82.8	87.4	95.1	94.4	94.4	11.6	4.6
	14	83.2	87.7	95.1	94.6	94.6	11.4	4.5
	15	84.1	87.9	95.0	95.5	95.5	11.4	3.8
	16	84.4	88.2	94.8	95.7	95.7	11.3	3.8
OH →	17	84.2	88.4	94.4	95.5	95.5	11.3	4.2
	18	84.4	88.8	94.0	96.0	96.0	11.6	4.4
	19	84.6	88.9	93.3	96.3	96.3	11.7	4.3
	20	84.1	88.3	92.3	95.7	95.7	11.6	4.2
	21	82.9	87.1	90.8	94.4	94.4	11.5	4.2
	22	81.8	85.7	89.1	93.0	93.0	11.2	3.9
	23	80.9	84.7	87.7	92.4	92.4	11.5	3.8
	24	79.7	83.7	86.4	91.4	91.4	11.7	4.0
	25	78.7	82.9	85.3	90.8	90.8	12.1	4.2
	26	77.4	81.8	84.1	89.4	89.4	12.0	4.4
	27	76.0	80.6	83.2	88.6	88.6	12.6	4.6
	28	73.7	78.6	81.6	86.9	87.9	13.2	4.9
	29	72.3	77.7	80.9	86.2	86.2	13.9	5.4
	30	72.1	77.3	80.5	85.8	87.2	13.7	5.2
	31	72.1	77.3	80.8	85.7	87.1	13.6	5.2

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	68.4	77.0	87.2	84.9	84.9	16.5	8.6
2	70.7	78.0	87.7	86.0	86.0	15.3	7.3
3	74.5	79.9	88.3	87.9	89.2	13.4	5.4
4	78.2	82.7	89.2	90.9	92.4	12.7	4.5
5	80.7	84.6	90.3	92.6	93.9	11.9	3.9
6	81.8	85.5	90.8	93.5	93.5	11.7	3.7
7	81.8	85.4	91.2	93.5	93.5	11.7	3.6
8	81.5	85.3	91.5	93.6	93.6	12.1	3.8
9	81.5	85.5	92.4	93.6	93.6	12.1	4.0
10	82.0	86.1	92.9	93.8	93.8	11.8	4.1
11	82.5	86.8	93.4	94.0	95.2	11.5	4.3
12	83.5	87.7	93.5	94.5	95.5	11.0	4.2
13	84.7	88.6	93.8	95.3	95.3	10.6	3.9
14	86.2	89.6	94.0	96.9	97.5	10.7	3.4
15	86.6	90.1	94.2	97.9	98.4	11.3	3.5
OH → 16	86.6	90.2	94.3	97.9	97.9	11.3	3.6
17	86.0	90.0	94.3	97.5	97.5	11.5	4.0
18	85.7	89.5	94.0	96.8	96.8	11.1	3.8
19	84.7	88.8	93.4	96.2	96.2	11.5	4.1
20	83.6	87.8	92.0	95.3	95.3	11.7	4.2
21	82.5	86.7	90.5	94.1	94.1	11.6	4.2
22	81.8	85.9	88.8	93.2	93.2	11.4	4.1
23	81.0	85.0	87.5	92.6	92.6	11.6	4.0
24	79.5	83.9	86.4	91.6	91.6	12.1	4.4
25	77.6	82.2	85.2	90.1	90.1	12.5	4.6
26	76.3	81.0	84.2	89.0	89.0	12.7	4.7
27	75.7	80.4	83.7	88.4	89.6	12.7	4.7
28	75.0	79.7	82.9	87.7	87.7	12.7	4.7
29	73.5	78.5	82.3	86.7	86.7	13.2	5.0

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 43 9 DEGREE APPROACH MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	75.2	81.9	91.2	89.2	89.2	14.0	6.7
	2	76.3	82.6	91.9	90.0	90.0	13.7	6.3
	3	77.1	83.2	92.6	90.7	90.7	13.6	6.1
	4	78.2	84.1	92.8	91.7	91.7	13.5	5.9
	5	78.7	84.7	92.7	92.3	93.4	13.6	6.0
	6	80.2	86.1	92.8	93.6	95.3	13.4	5.9
	7	82.4	87.9	93.8	95.6	97.5	13.2	5.5
	8	83.6	89.4	94.9	96.8	98.8	13.2	5.8
	9	83.8	89.8	95.3	97.2	98.6	13.4	6.0
	10	82.9	89.4	95.2	96.7	98.0	13.8	6.5
	11	82.5	89.3	95.1	96.5	97.8	14.0	6.8
	12	83.2	89.8	95.3	97.0	98.7	13.8	6.6
	13	84.4	90.9	95.8	98.3	99.9	13.9	6.5
	14	85.6	92.2	96.7	99.7	101.5	14.1	6.6
	15	86.4	93.3	97.5	100.7	102.4	14.3	6.9
	16	86.6	93.4	97.8	100.9	102.6	14.3	6.8
	17	86.6	93.4	98.1	100.8	102.2	14.2	6.8
OH →	18	86.8	93.3	98.4	100.7	100.7	13.9	6.5
	19	87.2	94.0	99.1	101.4	101.4	14.2	6.8
	20	88.2	95.0	100.0	102.4	102.4	14.2	6.8
	21	88.3	95.3	100.3	102.5	102.5	14.2	7.0
	22	88.0	95.1	100.4	102.4	102.4	14.4	7.1
	23	86.6	93.7	99.6	101.3	101.3	14.7	7.1
	24	85.0	92.2	98.7	99.6	99.6	14.6	7.2
	25	84.4	90.9	97.8	98.3	98.3	13.9	6.5
	26	85.1	91.6	97.9	99.0	99.0	13.9	6.5
	27	86.0	92.5	97.9	100.0	100.0	14.0	6.5
	28	85.5	92.1	97.2	99.8	99.8	14.3	6.6
	29	84.1	90.4	96.1	98.3	99.6	14.2	6.3
	30	81.7	87.7	94.5	95.7	97.0	14.0	6.0
	31	80.0	85.2	93.3	93.1	94.1	13.1	5.2
	32	78.9	83.9	92.1	91.7	91.7	12.8	5.0
	33	77.7	83.0	91.3	90.9	90.9	13.2	5.3
	34	76.1	81.8	90.0	90.0	90.0	13.9	5.7
	35	74.3	80.6	88.8	89.0	89.0	14.7	6.3
	36	73.2	79.7	87.6	88.2	88.2	15.0	6.5

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 49 60 KT.FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.7	77.5	85.4	85.2	85.2	15.5	7.8
2	71.3	78.4	86.0	86.3	87.4	15.0	7.1
3	72.7	79.6	86.9	87.4	89.0	14.7	6.9
4	74.5	81.0	88.0	88.7	89.9	14.2	6.5
5	75.5	81.5	88.3	89.5	89.5	14.0	6.0
6	76.0	82.1	88.9	90.3	90.3	14.3	6.1
7	76.6	82.3	89.2	90.7	91.7	14.1	5.7
8	77.1	83.0	90.2	91.3	91.3	14.2	5.9
9	78.0	83.6	90.9	91.9	91.9	13.9	5.6
10	78.6	84.2	91.8	92.3	92.3	13.7	5.6
11	79.8	85.4	92.2	92.9	92.9	13.1	5.6
12	80.9	86.3	92.6	94.0	94.0	13.1	5.4
13	82.0	87.4	93.3	95.4	95.4	13.4	5.4
14	83.2	88.0	93.9	96.0	96.0	12.8	4.8
OH → 15	84.1	89.1	94.3	96.6	96.6	12.5	5.0
16	84.5	89.4	93.9	96.7	96.7	12.2	4.9
17	84.3	89.3	93.4	96.6	96.6	12.3	5.0
18	84.1	88.7	93.0	96.4	96.4	12.3	4.6
19	83.6	88.2	93.4	95.8	95.8	12.2	4.6
20	83.7	88.2	93.8	95.2	95.2	11.5	4.5
21	82.9	87.7	93.9	94.5	94.5	11.6	4.8
22	82.3	87.2	93.8	93.9	93.9	11.6	4.9
23	81.2	85.7	93.2	92.7	92.7	11.5	4.5
24	80.7	84.9	92.4	92.3	93.5	11.6	4.2
25	80.6	84.7	91.7	92.3	92.3	11.7	4.1
26	80.3	84.8	91.3	92.3	92.3	12.0	4.5
27	80.3	84.6	90.7	91.9	91.9	11.6	4.3
28	80.1	84.3	90.3	91.6	91.6	11.5	4.2
29	80.2	83.9	89.8	91.5	92.6	11.3	3.7
30	79.7	83.7	89.3	91.3	92.6	11.6	4.0
31	78.7	82.8	88.1	90.5	91.8	11.8	4.1
32	77.3	82.1	87.6	89.4	90.6	12.1	4.8
33	76.5	81.1	86.9	88.5	89.9	12.0	4.6
34	75.8	80.7	86.6	88.2	89.4	12.4	4.9
35	75.1	79.7	85.3	87.6	89.0	12.5	4.6
36	73.4	78.6	84.6	86.4	88.2	13.0	5.2
37	71.3	77.3	82.9	84.7	86.0	13.4	6.0
38	69.0	76.7	82.1	83.8	83.8	14.8	7.7

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 50 60 KT. FLY BY MIC.CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	72.2	79.3	88.3	87.0	88.5	14.8	7.1
	2	72.3	79.5	88.5	87.1	88.4	14.8	7.2
	3	72.9	80.2	88.6	87.9	88.9	15.0	7.3
	4	75.2	81.3	89.1	88.7	89.8	13.5	6.1
	5	77.0	82.1	89.7	89.8	91.5	12.8	5.1
	6	77.9	83.3	90.3	90.7	92.4	12.8	5.4
	7	78.9	84.4	91.1	92.1	93.6	13.2	5.5
	8	79.9	85.8	92.1	93.8	93.8	13.9	5.9
	9	82.2	88.3	93.5	96.0	96.0	13.8	6.1
	10	83.6	89.8	94.7	97.4	97.4	13.8	6.2
	11	84.0	90.0	94.8	97.6	97.6	13.6	6.0
	12	84.2	90.3	95.1	97.9	97.9	13.7	6.1
	13	84.0	89.8	94.6	97.8	97.8	13.8	5.8
	14	83.7	89.3	94.1	97.5	97.5	13.8	5.6
	15	82.8	87.8	93.0	96.1	96.1	13.3	5.0
	16	82.8	87.5	92.5	95.1	95.1	12.3	4.7
	17	83.8	88.1	93.1	95.7	95.7	11.9	4.3
OH →	18	84.2	88.1	93.1	95.8	95.8	11.6	3.9
	19	84.2	88.2	92.9	95.9	95.9	11.7	4.0
	20	83.5	87.6	92.2	95.5	95.5	12.0	4.1
	21	82.8	87.3	92.1	94.5	94.5	11.7	4.5
	22	82.2	86.9	92.6	94.0	94.0	11.8	4.7
	23	81.6	86.3	93.0	93.4	93.4	11.8	4.7
	24	80.9	85.5	92.7	92.5	92.5	11.6	4.6
	25	79.6	84.2	92.3	91.4	91.4	11.8	4.6
	26	78.5	83.5	91.5	90.4	90.4	11.9	5.0
	27	78.3	83.5	90.9	90.3	90.3	12.0	5.2
	28	78.3	83.4	90.4	90.3	90.3	12.0	5.1
	29	78.4	83.1	90.0	90.1	90.1	11.7	4.7
	30	78.3	82.5	89.6	90.2	91.3	11.9	4.2
	31	78.0	82.2	88.8	90.1	91.5	12.1	4.2
	32	77.5	82.1	88.2	89.9	91.4	12.4	4.6
	33	77.4	81.9	87.6	89.7	91.0	12.3	4.5
	34	77.4	81.7	87.1	89.5	90.7	12.1	4.3
	35	77.3	81.4	86.7	89.3	90.5	12.0	4.1
	36	76.4	80.9	86.0	88.5	89.6	12.1	4.5
	37	75.3	80.2	85.4	87.6	87.6	12.3	4.9
	38	74.0	79.2	84.6	86.6	87.7	12.6	5.2
	39	73.3	78.5	84.2	86.4	88.1	13.1	5.2
	40	72.8	78.1	83.4	85.9	87.9	13.1	5.3
	41	71.5	77.5	82.7	85.0	86.8	13.5	6.0

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 51 6 DEGREE APPROACH MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	73.0	81.0	89.7	88.2	89.6	15.2	8.0
2	73.9	81.3	90.0	88.7	90.1	14.8	7.4
3	75.3	82.2	90.4	89.8	91.3	14.5	6.9
4	76.7	83.2	90.7	90.6	90.6	13.9	6.5
5	78.5	84.5	91.3	91.7	91.7	13.2	6.0
6	79.7	85.7	92.2	92.7	92.7	13.0	6.0
7	80.7	86.6	93.0	93.5	94.6	12.8	5.9
8	81.1	87.1	93.6	94.0	95.3	12.9	6.0
9	81.2	87.1	94.0	94.0	95.4	12.8	5.9
10	80.8	87.0	94.3	93.9	93.9	13.1	6.2
11	81.3	87.6	94.8	94.7	94.7	13.4	6.3
12	83.1	89.4	95.7	96.6	96.6	13.5	6.3
13	84.6	91.0	96.6	98.1	98.1	13.5	6.4
14	85.7	92.3	97.6	99.1	99.1	13.4	6.6
15	86.2	92.9	98.0	99.9	99.9	13.7	6.7
16	86.8	93.5	98.4	100.9	102.3	14.1	6.7
17	86.9	93.5	98.3	101.1	101.1	14.2	6.6
18	87.0	93.4	98.4	101.1	101.1	14.1	6.4
OH → 19	86.8	93.0	98.2	100.6	100.6	13.8	6.2
20	86.5	92.8	98.1	100.1	100.1	13.6	6.3
21	86.0	92.3	97.9	99.8	99.8	13.8	6.3
22	85.5	91.8	98.0	99.3	99.3	13.8	6.3
23	84.7	90.9	98.3	98.6	98.6	13.9	6.2
24	83.9	90.0	98.5	97.9	97.9	14.0	6.1
25	82.7	88.8	98.1	96.7	96.7	14.0	6.1
26	82.0	87.9	97.2	95.7	95.7	13.7	5.9
27	81.3	87.3	95.9	95.1	96.1	13.8	6.0
28	81.4	87.8	95.1	95.4	95.4	14.0	6.4
29	81.4	87.8	94.4	95.6	95.6	14.2	6.4
30	81.3	87.4	93.6	95.4	96.4	14.1	6.1
31	80.0	86.0	92.3	94.2	94.2	14.2	6.0
32	79.0	84.8	91.4	92.7	92.7	13.7	5.8
33	78.0	83.8	90.5	91.4	91.4	13.4	5.8
34	77.1	83.0	90.1	90.7	91.8	13.6	5.9
35	75.2	81.6	89.1	89.6	89.6	14.4	6.4
36	73.0	80.4	88.3	88.7	88.7	15.7	7.4
37	72.3	79.5	87.1	88.2	89.3	15.9	7.2

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

With truck

OCTOBER 28 1976

EVENT 55 85 KT. FLY BY MIC.CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.6	78.8	91.0	86.5	87.7	15.9	8.2
	2	71.6	79.5	91.4	87.1	87.1	15.5	7.9
	3	73.1	80.5	91.9	87.9	87.9	14.8	7.4
	4	74.3	81.1	92.1	88.8	90.3	14.5	6.8
	5	74.8	81.5	92.1	89.2	90.6	14.4	6.7
	6	76.1	82.6	92.1	90.2	90.2	14.1	6.5
	7	76.7	83.2	92.4	90.7	90.7	14.0	6.5
	8	77.5	83.9	93.3	91.4	91.4	13.9	6.4
	9	78.5	84.6	94.2	91.9	91.9	13.4	6.1
	10	80.0	85.7	95.3	93.3	93.3	13.3	5.7
	11	80.8	86.4	95.9	93.7	93.7	12.9	5.6
	12	81.8	87.2	96.2	94.7	94.7	12.9	5.4
	13	82.4	87.9	95.7	95.4	95.4	13.0	5.5
	14	83.4	88.7	95.0	96.5	96.5	13.1	5.3
	15	83.8	89.2	94.0	96.7	96.7	12.9	5.4
OH →	16	84.4	89.3	92.8	96.5	96.5	12.1	4.9
	17	84.2	88.9	91.9	96.1	96.1	11.9	4.7
	18	84.0	88.4	91.8	95.7	95.7	11.7	4.4
	19	83.3	87.5	92.3	94.7	94.7	11.4	4.2
	20	82.6	86.9	93.0	93.9	93.9	11.3	4.3
	21	82.0	86.3	93.8	93.5	93.5	11.5	4.3
	22	81.2	85.8	93.7	92.9	92.9	11.7	4.6
	23	80.5	84.8	92.7	92.1	92.1	11.6	4.3
	24	79.0	83.2	91.1	91.0	91.0	12.0	4.2
	25	77.8	82.2	90.2	90.0	90.0	12.2	4.4
	26	76.1	81.1	89.4	88.7	88.7	12.6	5.0
	27	75.5	80.8	88.3	88.4	88.4	12.9	5.3
	28	74.5	80.0	87.0	87.6	87.6	13.1	5.5
	29	74.4	79.9	86.2	87.4	87.4	13.0	5.5
	30	73.8	79.2	85.2	86.9	88.2	13.1	5.4
	31	73.3	78.8	84.3	86.4	87.7	13.1	5.5
	32	72.0	77.9	83.3	85.2	85.2	13.2	5.9

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

With truck

OCTOBER 28 1976

EVENT 66 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	74.1	80.9	91.0	89.5	90.8	15.4	6.8
	2	73.7	81.0	91.9	89.4	90.4	15.7	7.3
	3	74.2	81.5	92.6	89.4	89.4	15.2	7.3
	4	76.1	82.5	93.2	90.3	90.3	14.2	6.4
	5	77.7	83.5	94.2	91.4	91.4	13.7	5.8
	6	78.7	84.5	95.5	92.6	92.6	13.9	5.8
	7	80.1	85.6	96.7	93.5	93.5	13.4	5.5
	8	81.1	86.8	97.2	94.5	94.5	13.4	5.7
	9	82.8	88.2	97.5	96.4	96.4	13.6	5.4
	10	83.7	89.1	97.3	97.4	97.4	13.7	5.4
OH →	11	84.7	90.0	96.9	98.1	98.1	13.4	5.3
	12	85.3	90.2	95.7	97.8	97.8	12.5	4.9
	13	85.3	89.9	94.5	97.8	97.8	12.5	4.6
	14	84.8	89.3	92.9	97.1	97.1	12.3	4.5
	15	83.6	88.1	92.7	95.9	95.9	12.3	4.5
	16	82.8	87.4	92.9	94.4	94.4	11.6	4.6
	17	82.1	86.6	93.0	93.7	93.7	11.6	4.5
	18	81.7	86.0	92.5	93.2	94.5	11.5	4.3
	19	80.9	85.0	91.2	92.3	93.8	11.4	4.1
	20	80.0	84.0	89.8	91.5	93.0	11.5	4.0
	21	79.4	83.5	88.7	90.9	90.9	11.5	4.1
	22	78.8	82.6	87.7	90.2	90.2	11.4	3.8
	23	77.5	81.7	87.0	89.4	89.4	11.9	4.2
	24	76.0	80.6	86.5	88.5	89.8	12.5	4.6
	25	75.0	80.4	86.4	88.1	89.5	13.1	5.4
	26	75.3	80.6	86.1	88.2	89.9	12.9	5.3
	27	75.0	80.3	85.7	88.1	89.6	13.1	5.3
	28	74.7	79.9	85.1	87.9	89.7	13.2	5.2

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.9	79.5	92.0	86.4	86.4	15.5	8.6
	2	72.8	80.6	93.0	87.3	87.3	14.5	7.8
	3	75.0	82.0	93.7	88.9	90.3	13.9	7.0
	4	76.9	83.0	94.7	90.4	90.4	13.5	6.1
	5	78.4	84.4	95.7	92.0	92.0	13.6	6.0
	6	79.3	85.6	96.9	93.2	93.2	13.9	6.3
	7	81.6	87.5	97.9	94.8	95.5	13.2	5.9
	8	83.3	89.1	98.4	96.9	97.7	13.6	5.8
	9	85.0	90.5	98.3	98.5	99.0	13.5	5.5
	10	85.9	91.3	97.7	99.1	99.1	13.2	5.4
OH →	11	86.5	91.7	96.6	99.2	99.2	12.7	5.2
	12	86.6	91.6	95.5	98.8	98.8	12.2	5.0
	13	86.8	91.3	94.4	98.6	98.6	11.8	4.5
	14	86.4	90.7	94.0	97.8	97.8	11.4	4.3
	15	85.5	89.7	93.2	96.4	96.4	10.9	4.2
	16	84.0	88.0	92.1	94.8	94.8	10.8	4.0
	17	82.4	86.3	90.6	93.4	93.4	11.0	3.9
	18	81.3	85.1	89.6	92.6	92.6	11.3	3.8
	19	80.7	84.9	89.2	92.1	92.1	11.4	4.2
	20	80.8	84.9	88.6	92.0	92.0	11.2	4.1
	21	80.4	84.8	88.1	91.9	92.9	11.5	4.4
	22	79.3	83.8	87.4	91.1	91.1	11.8	4.5
	23	77.9	82.8	87.2	90.4	90.4	12.5	4.9
	24	77.2	81.9	86.7	90.0	91.2	12.8	4.7
	25	76.8	81.3	86.0	89.7	90.9	12.9	4.5
	26	75.9	80.7	85.5	89.0	90.2	13.1	4.8
	27	74.7	80.1	84.9	88.3	89.4	13.6	5.4
	28	73.4	79.6	84.5	87.7	89.2	14.3	6.2

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
With Truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	72.4	81.6	94.0	38.8	90.2	16.4	9.2
2	74.0	82.5	95.1	89.7	89.7	15.7	8.5
3	74.4	82.8	95.8	90.1	90.1	15.7	8.4
4	75.6	83.9	96.7	91.4	91.4	15.8	8.3
5	78.1	85.5	97.6	92.9	92.9	14.8	7.4
6	80.0	86.8	98.5	94.0	95.4	14.0	6.8
7	81.5	88.0	99.1	94.8	94.8	13.3	6.5
8	82.0	88.0	99.1	95.0	95.0	13.0	6.0
9	82.2	88.3	98.8	95.7	95.7	13.5	6.1
10	83.1	88.8	98.4	96.8	96.8	13.7	5.7
11	84.2	89.8	97.8	97.8	97.8	13.6	5.6
12	85.8	90.6	96.6	98.4	98.4	12.6	4.8
OH → 13	86.5	90.8	94.6	97.9	97.9	11.4	4.3
14	86.7	90.8	93.3	97.9	97.9	11.2	4.1
15	86.2	90.2	92.8	97.3	97.3	11.1	4.0
16	85.5	89.8	93.3	96.9	96.9	11.4	4.3
17	84.2	88.7	93.5	95.7	95.7	11.5	4.5
18	83.2	87.7	93.1	94.6	94.6	11.4	4.5
19	81.9	86.2	92.0	93.5	93.5	11.6	4.3
20	80.8	85.0	90.5	92.6	92.6	11.8	4.2
21	79.4	84.2	89.4	91.6	91.6	12.2	4.8
22	78.2	83.3	88.3	90.3	90.3	12.1	5.1
23	77.5	82.4	87.6	89.6	89.6	12.1	4.9
24	77.0	81.7	86.7	89.2	90.2	12.2	4.7
25	76.5	81.5	86.1	88.9	88.9	12.4	5.0
26	76.3	81.3	85.4	88.7	88.7	12.4	5.0
27	76.3	81.0	85.5	88.9	88.9	12.6	4.7
28	76.1	80.7	85.1	88.7	90.2	12.6	4.6

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

With truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. CENTERLINE (HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	72.8	80.7	93.0	88.8	88.8	16.0	7.9
2	73.3	81.2	93.5	89.1	89.1	15.8	7.9
3	74.9	82.2	94.3	90.2	90.2	15.3	7.3
4	76.9	83.9	95.3	91.4	91.4	14.5	7.0
5	79.5	85.8	96.5	93.1	93.1	13.6	6.3
6	82.1	87.9	97.2	95.7	96.4	13.6	5.8
7	83.9	89.5	97.5	97.5	98.1	13.6	5.6
8	85.6	90.8	97.0	98.5	98.5	12.9	5.2
9	86.5	91.8	96.1	98.9	98.9	12.4	5.3
OH → 10	86.6	91.6	94.7	98.4	98.4	11.8	5.0
11	86.3	90.9	93.3	98.0	98.0	11.7	4.6
12	86.1	90.4	92.6	97.6	97.6	11.5	4.3
13	85.9	90.2	92.0	97.0	97.0	11.1	4.3
14	84.7	89.2	91.2	95.8	95.8	11.1	4.5
15	82.5	86.9	89.8	93.7	94.9	11.2	4.4
16	80.3	84.8	88.6	92.0	92.0	11.7	4.5
17	79.5	84.1	88.1	91.4	91.4	11.9	4.6
18	78.6	83.2	87.5	90.5	90.5	11.9	4.6
19	77.4	82.3	86.8	89.7	89.7	12.3	4.9
20	76.2	81.2	86.0	88.6	88.6	12.4	5.0
21	75.0	80.4	85.1	88.0	88.0	13.0	5.4
22	74.4	80.0	84.5	87.4	88.6	13.0	5.6
23	74.3	79.7	84.0	87.3	88.6	13.0	5.4

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 70 3 DEGREE APPROACH MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	73.2	81.0	90.0	88.8	89.9	15.6	7.8
2	74.5	81.6	90.3	89.3	89.3	14.8	7.1
3	77.0	83.1	90.9	91.3	91.3	14.3	6.1
4	79.3	84.6	91.3	92.6	92.6	13.3	5.3
5	80.0	85.2	91.6	92.9	94.1	12.9	5.2
6	80.3	85.6	92.1	92.9	94.4	12.6	5.3
7	79.9	85.5	92.3	93.0	94.4	13.1	5.6
8	80.7	86.2	92.9	93.8	93.8	13.1	5.5
9	82.0	87.5	93.8	94.8	94.8	12.8	5.5
10	82.5	88.0	94.4	95.1	95.1	12.6	5.5
11	82.6	88.4	95.0	95.5	96.7	12.9	5.8
12	82.1	88.2	95.4	95.5	96.1	13.4	6.1
13	82.9	89.2	96.1	96.6	97.3	13.7	6.3
14	83.8	90.1	96.8	97.4	98.1	13.6	6.3
15	84.9	91.3	97.8	98.5	99.0	13.6	6.4
16	85.5	92.0	98.4	99.3	99.3	13.8	6.5
17	86.0	92.6	98.8	100.0	100.0	14.0	6.6
18	87.1	93.2	99.0	100.6	100.6	13.5	6.1
19	87.9	93.8	99.2	101.2	101.2	13.3	5.9
OH → 20	88.2	93.9	99.2	101.4	101.4	13.2	5.7
21	87.6	93.2	98.7	100.9	100.9	13.3	5.6
22	86.6	91.9	98.8	99.8	99.8	13.2	5.3
23	85.9	91.0	99.3	98.3	98.3	12.4	5.1
24	85.2	90.3	99.5	97.5	97.5	12.3	5.1
25	84.6	89.9	98.8	96.9	98.0	12.3	5.3
26	83.7	89.2	97.6	96.1	97.5	12.4	5.5
27	83.1	88.2	96.2	95.2	96.8	12.1	5.1
28	82.5	87.5	95.4	94.7	96.1	12.2	5.0
29	82.1	86.5	94.1	94.0	95.1	11.9	4.4
30	81.7	86.2	93.1	93.6	94.8	11.9	4.5
31	81.4	85.7	91.9	93.2	94.6	11.8	4.3
32	80.9	85.1	91.0	92.8	94.5	11.9	4.2
33	80.4	84.6	90.6	92.5	94.1	12.1	4.2
34	79.5	83.7	90.1	91.6	92.8	12.1	4.2
35	78.4	82.9	89.5	90.5	90.5	12.1	4.5
36	76.8	81.9	88.1	89.2	89.2	12.4	5.1
37	75.1	81.0	87.4	88.1	89.2	13.0	5.9
38	73.6	80.0	86.3	87.3	88.5	13.7	6.4

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
With Truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. CENTERLINE(SOFT)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	69.2	77.8	90.6	86.1	86.1	16.9	8.6
	2	70.3	78.5	91.1	86.5	86.5	16.2	8.2
	3	74.1	80.1	92.2	88.2	89.6	14.1	6.0
	4	76.2	81.7	93.4	89.7	91.2	13.5	5.5
	5	77.5	83.0	94.5	91.0	91.0	13.5	5.5
	6	78.8	84.4	95.6	92.2	92.2	13.4	5.6
	7	81.0	86.7	96.6	94.4	94.4	13.4	5.7
	8	83.5	89.0	97.2	96.8	96.8	13.3	5.5
	9	85.3	90.3	97.3	98.2	98.2	12.9	5.0
OH →	10	85.8	90.8	96.8	98.5	98.5	12.7	5.0
	11	86.3	90.9	95.9	98.6	98.6	12.3	4.6
	12	86.1	90.9	94.8	98.9	98.9	12.8	4.8
	13	85.8	90.3	93.4	98.3	98.3	12.5	4.5
	14	84.6	89.0	92.1	96.6	96.6	12.0	4.4
	15	83.4	87.4	91.1	95.0	95.0	11.6	4.0
	16	82.1	86.1	90.5	93.5	93.5	11.4	4.0
	17	80.9	85.0	89.5	92.7	92.7	11.8	4.1
	18	80.0	83.9	88.7	91.7	91.7	11.7	3.9
	19	79.8	83.6	87.9	91.3	91.3	11.5	3.8
	20	79.4	83.4	87.3	90.9	90.9	11.5	4.0
	21	78.3	82.5	86.7	90.0	90.0	11.7	4.2
	22	77.5	81.7	86.0	89.3	90.5	11.8	4.2
	23	77.0	81.4	85.6	89.4	90.8	12.4	4.4
	24	76.4	80.7	85.0	89.2	90.2	12.8	4.3
	25	74.8	79.4	84.4	88.0	89.5	13.2	4.6
	26	72.8	78.2	83.6	86.9	88.5	14.1	5.4
	27	72.3	78.0	83.2	86.8	88.1	14.5	5.7

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64 with truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. CENTERLINE(SOFT)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	69.3	78.6	91.8	86.5	86.5	17.2	9.3
	2	70.9	79.7	92.9	87.6	87.6	16.7	8.8
	3	72.1	80.5	93.6	88.6	88.6	16.5	8.4
	4	74.4	82.0	94.7	89.9	89.9	15.5	7.6
	5	77.1	83.9	95.8	91.3	92.8	14.2	6.8
	6	80.3	86.1	97.0	93.4	93.4	13.1	5.8
	7	81.2	86.8	97.6	94.0	94.0	12.8	5.6
	8	81.9	87.7	97.7	95.2	95.2	13.3	5.8
	9	81.8	87.9	97.6	95.7	95.7	13.9	6.1
	10	82.9	88.8	97.7	96.7	96.7	13.8	5.9
	11	84.0	89.6	97.4	97.4	97.4	13.4	5.6
	12	84.9	89.8	96.5	97.6	97.6	12.7	4.9
OH →	13	85.3	89.8	94.9	97.6	97.6	12.3	4.5
	14	85.3	89.4	93.3	97.6	97.6	12.3	4.1
	15	84.7	88.8	92.1	96.7	96.7	12.0	4.1
	16	84.1	88.0	91.7	95.5	95.5	11.4	3.9
	17	82.7	86.6	91.6	94.1	94.1	11.4	3.9
	18	81.3	85.4	91.4	93.1	93.1	11.8	4.1
	19	79.5	84.0	90.3	91.2	91.2	11.7	4.5
	20	78.0	82.7	88.9	90.3	90.3	12.3	4.7
	21	77.2	81.8	87.9	89.8	89.8	12.6	4.6
	22	76.5	80.8	86.9	88.8	88.8	12.3	4.3
	23	76.4	80.7	86.3	88.6	88.6	12.2	4.3
	24	75.8	80.3	85.2	88.1	88.1	12.3	4.5
	25	75.3	79.8	84.5	87.7	87.7	12.4	4.5
	26	74.7	79.3	83.8	87.5	88.8	12.8	4.6
	27	74.4	79.2	83.7	87.7	88.8	13.3	4.8
	28	73.8	78.6	83.1	87.2	88.7	13.4	4.8

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. CENTERLINE (SOFT)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.4	79.0	91.5	87.5	87.5	17.1	8.6
2	72.1	80.2	92.4	88.3	89.5	16.2	8.1
3	74.0	81.4	93.1	89.2	89.2	15.2	7.4
4	75.5	82.8	94.2	90.2	90.2	14.7	7.3
5	77.8	84.5	95.4	91.7	91.7	13.9	6.7
6	80.8	86.8	96.3	94.3	94.3	13.5	6.0
7	83.4	88.8	96.7	96.6	96.6	13.2	5.4
8	84.9	90.1	96.5	97.6	97.6	12.7	5.2
9	85.5	90.4	95.9	97.8	97.8	12.3	4.9
OH → 10	86.2	90.7	95.0	98.5	98.5	12.3	4.5
11	86.0	90.2	93.6	98.3	98.3	12.3	4.2
12	85.3	89.4	92.0	97.3	97.3	12.0	4.1
13	83.7	88.0	90.6	95.4	96.4	11.7	4.3
14	82.3	87.0	89.8	93.9	94.9	11.6	4.7
15	81.2	85.8	89.0	92.6	93.7	11.4	4.6
16	79.9	84.3	88.0	91.5	91.5	11.6	4.4
17	78.3	82.5	87.3	90.4	90.4	12.1	4.2
18	76.9	81.3	86.4	89.1	89.1	12.2	4.4
19	75.4	80.0	85.4	88.3	88.3	12.9	4.6
20	75.1	79.8	84.7	88.1	89.1	13.0	4.7
21	75.3	79.9	84.2	87.9	89.4	12.6	4.6

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 80 105 KT. FLY BY MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	71.4	79.5	89.3	88.0	89.5	16.6	8.1
2	72.9	80.2	89.8	88.7	89.7	15.8	7.3
3	74.0	81.2	90.7	89.7	89.7	15.7	7.2
4	75.9	82.2	91.0	90.6	92.0	14.7	6.3
5	77.8	83.7	91.4	91.9	93.2	14.1	5.9
6	80.1	85.1	91.6	93.2	93.2	13.1	5.0
7	81.7	86.5	91.6	94.1	94.1	12.4	4.8
8	83.7	87.9	91.4	94.9	94.9	11.2	4.2
9	84.7	89.2	91.3	96.1	96.1	11.4	4.5
10	85.4	89.7	91.5	96.6	96.6	11.2	4.3
11	85.8	90.0	92.1	97.3	97.3	11.5	4.2
OH →12	86.7	90.3	92.7	98.1	98.1	11.4	3.6
13	86.8	90.6	93.3	98.2	98.2	11.4	3.8
14	86.5	90.4	93.2	97.7	97.7	11.2	3.9
15	85.4	89.8	93.2	96.9	96.9	11.5	4.4
16	84.7	88.9	92.3	96.2	96.2	11.5	4.2
17	83.6	87.9	91.3	95.4	95.4	11.8	4.3
18	82.1	86.4	89.6	93.9	93.9	11.8	4.3
19	80.4	84.5	88.2	92.1	92.1	11.7	4.1
20	78.8	82.8	87.1	90.3	90.3	11.5	4.0
21	77.0	81.2	85.7	89.0	89.0	12.0	4.2
22	74.5	79.6	84.2	87.4	88.6	12.9	5.1
23	73.3	79.0	83.4	87.1	87.1	13.8	5.7
24	72.5	78.3	82.8	86.4	87.7	13.9	5.8

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 81 105 KT. FLY BY MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	73.4	80.6	89.7	89.1	90.2	15.7	7.2
	2	75.3	82.0	90.5	90.6	92.6	15.3	6.7
	3	76.2	83.0	91.2	91.6	93.2	15.4	6.8
	4	77.3	83.9	91.8	92.4	92.4	15.1	6.6
	5	80.3	85.8	91.9	93.7	94.9	13.4	5.5
	6	81.7	86.8	92.0	94.3	94.3	12.6	5.1
	7	83.0	87.8	91.5	94.9	94.9	11.9	4.8
	8	82.6	87.3	91.1	94.5	94.5	11.9	4.7
	9	84.3	88.4	91.4	95.5	95.5	11.2	4.1
	10	84.9	89.0	91.8	96.3	96.3	11.4	4.1
	11	85.6	89.8	92.2	97.0	97.0	11.4	4.2
	12	86.6	90.5	92.6	97.9	97.9	11.3	3.9
OH →	13	87.7	91.4	93.1	98.6	98.6	10.9	3.7
	14	87.5	91.2	93.2	98.5	98.5	11.0	3.7
	15	86.0	89.9	92.3	97.3	97.3	11.3	3.9
	16	83.7	87.9	91.4	95.5	95.5	11.8	4.2
	17	83.8	87.6	90.5	95.3	95.3	11.5	3.8
	18	83.5	87.0	89.6	95.1	95.1	11.6	3.5
	19	82.6	85.9	88.1	94.0	94.0	11.4	3.3
	20	79.9	83.6	86.3	91.6	91.6	11.7	3.7
	21	78.4	82.4	85.2	89.8	89.8	11.4	4.0
	22	77.4	81.7	84.6	89.2	90.4	11.8	4.3
	23	76.9	81.2	84.0	89.0	90.2	12.1	4.3
	24	76.2	80.4	83.2	88.6	88.6	12.4	4.2
	25	74.9	79.5	82.7	87.6	88.7	12.7	4.6

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 80 105 KT. FLY BY MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	67.4	77.3	89.2	84.9	84.9	17.5	9.9
2	68.9	78.0	89.8	85.5	85.5	16.6	9.1
3	73.1	79.6	90.8	87.1	87.1	14.0	6.5
4	74.0	80.6	91.8	87.8	87.8	13.8	6.6
5	75.5	81.4	92.5	88.8	90.0	13.3	5.9
6	77.2	82.5	93.1	90.2	91.8	13.0	5.3
7	78.5	83.3	93.5	91.1	92.7	12.6	4.8
8	79.3	84.0	94.0	92.0	92.0	12.7	4.7
9	80.5	85.2	94.3	93.1	93.1	12.6	4.7
10	81.8	86.2	94.7	93.9	93.9	12.1	4.4
11	82.9	87.2	95.2	94.3	94.3	11.4	4.3
12	82.9	87.2	95.5	94.4	94.4	11.5	4.3
13	82.6	87.0	95.1	94.4	94.4	11.8	4.4
14	82.3	86.9	94.3	94.2	94.2	11.9	4.6
15	83.2	87.9	93.6	95.0	95.0	11.8	4.7
OH →16	83.8	88.4	93.4	95.5	95.5	11.7	4.6
17	83.9	88.4	92.9	95.6	95.6	11.7	4.5
18	82.8	87.2	91.9	94.9	94.9	12.1	4.4
19	82.4	86.7	90.6	94.8	94.8	12.4	4.3
20	81.4	85.6	89.1	93.9	93.9	12.5	4.2
21	80.9	85.0	88.0	93.2	93.2	12.3	4.1
22	79.0	83.3	86.9	91.4	91.4	12.4	4.3
23	77.6	82.1	86.1	90.2	90.2	12.6	4.5
24	75.8	80.7	85.0	88.8	88.8	13.0	4.9
25	73.5	79.0	83.7	87.1	88.4	13.6	5.5
26	72.1	78.0	82.7	86.2	87.3	14.1	5.9
27	70.8	76.8	81.8	85.6	85.6	14.8	6.0
28	70.6	76.8	81.5	85.7	86.8	15.1	6.2

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 81 105 KT. FLY BY MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	66.7	77.7	90.2	85.3	85.3	18.6	11.0
	2	67.7	78.4	90.9	85.9	87.0	18.2	10.7
	3	69.1	78.9	91.5	86.5	87.8	17.4	9.8
	4	72.5	80.2	92.2	88.3	89.4	15.8	7.7
	5	76.0	81.6	92.9	90.2	91.2	14.2	5.6
	6	77.8	82.9	93.2	91.3	91.3	13.5	5.1
	7	79.4	84.3	93.2	92.3	92.3	12.9	4.9
	8	79.9	84.7	93.4	92.7	92.7	12.8	4.8
	9	80.6	85.3	93.8	93.2	93.2	12.6	4.7
	10	81.0	85.6	94.1	93.6	93.6	12.6	4.6
	11	81.9	86.6	94.0	94.1	94.1	12.2	4.7
	12	82.5	87.0	94.0	94.6	94.6	12.1	4.5
	13	82.8	87.2	93.7	94.6	94.6	11.8	4.4
OH →	14	82.8	86.9	93.1	94.3	94.3	11.5	4.1
	15	82.2	86.2	91.7	93.6	93.6	11.4	4.0
	16	81.2	85.4	90.2	92.9	92.9	11.7	4.2
	17	80.6	84.9	89.1	92.5	92.5	11.9	4.3
	18	80.5	84.8	88.4	92.6	92.6	12.1	4.3
	19	80.8	84.9	87.8	92.8	92.8	12.0	4.1
	20	79.7	84.1	86.7	92.0	92.0	12.3	4.4
	21	78.5	83.0	85.7	90.8	90.8	12.3	4.5
	22	75.9	80.7	84.4	88.9	88.9	13.0	4.8
	23	74.7	79.7	83.8	87.9	89.0	13.2	5.0
	24	73.3	78.6	83.5	87.1	88.5	13.8	5.3
	25	73.2	78.3	83.3	87.1	88.1	13.9	5.1
	26	73.2	78.3	83.3	86.9	86.9	13.7	5.1
	27	72.6	77.6	82.7	86.3	86.3	13.7	5.0
	28	71.3	77.0	82.1	85.5	85.5	14.2	5.7
	29	69.5	75.8	81.0	84.2	84.2	14.7	6.3
	30	68.7	75.3	80.5	83.8	83.8	15.1	6.6

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 74 6 DEGREE APPROACH MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	68.2	78.1	88.5	85.6	85.6	17.4	9.9
	2	69.2	78.6	88.9	86.2	86.2	17.0	9.4
	3	70.4	79.2	89.3	86.5	86.5	16.1	8.8
	4	74.3	80.8	89.8	88.1	88.1	13.8	6.5
	5	78.1	82.8	90.8	90.9	92.1	12.8	4.7
	6	80.2	84.4	92.0	92.5	93.7	12.3	4.2
	7	80.7	84.8	92.8	93.2	93.2	12.5	4.1
	8	79.7	84.4	93.4	92.6	92.6	12.9	4.7
	9	78.3	83.7	93.5	91.8	92.9	13.5	5.4
	10	77.2	83.6	93.8	91.1	92.4	13.9	6.4
	11	78.2	84.3	93.9	91.7	91.7	13.5	6.1
	12	79.0	85.0	94.2	92.4	92.4	13.4	6.0
	13	79.6	85.5	94.5	93.0	93.0	13.4	5.9
	14	79.7	85.8	94.9	93.3	93.3	13.6	6.1
	15	79.9	85.9	95.2	93.7	94.9	13.8	6.0
	16	80.8	87.1	95.8	94.6	96.8	13.8	6.3
	17	82.4	88.8	96.3	96.1	98.7	13.7	6.4
	18	83.9	90.4	96.9	97.6	100.3	13.7	6.5
	19	85.1	91.7	97.6	99.0	101.3	13.9	6.6
	20	85.5	92.1	98.1	99.5	101.2	14.0	6.6
	21	85.4	92.1	98.4	99.6	100.9	14.2	6.7
	22	85.5	92.0	98.7	99.6	100.8	14.1	6.5
	23	85.8	92.5	99.0	99.9	99.9	14.1	6.7
	24	86.0	92.5	98.9	100.1	100.1	14.1	6.5
	25	85.7	92.3	98.4	99.6	99.6	13.9	6.6
	26	85.2	91.8	97.5	98.9	98.9	13.7	6.6
OH →	27	84.9	91.4	96.6	98.8	98.8	13.9	6.5
	28	84.5	90.7	95.8	98.6	98.6	14.1	6.2
	29	84.2	90.4	95.5	98.4	98.4	14.2	6.2
	30	84.4	90.7	95.5	98.3	98.3	13.9	6.3
	31	84.5	90.9	95.4	98.1	98.1	13.6	6.4
	32	84.4	90.7	95.1	98.0	98.0	13.6	6.3
	33	83.6	89.6	94.4	97.0	97.0	13.4	6.0
	34	82.6	88.3	93.6	95.6	96.7	13.0	5.7
	35	81.2	86.9	92.9	94.3	95.5	13.1	5.7
	36	80.9	86.4	92.3	93.6	94.8	12.7	5.5
	37	80.3	86.1	91.9	93.6	93.6	13.3	5.8
	38	80.0	85.6	91.3	93.2	94.3	13.2	5.6
	39	78.5	84.2	90.4	92.0	92.0	13.5	5.7
	40	76.8	82.6	89.3	90.2	91.3	13.4	5.8
	41	74.8	80.9	88.8	88.5	89.7	13.7	6.1
	42	73.9	80.1	88.2	87.5	88.8	13.6	6.2
	43	74.5	80.3	87.7	87.9	89.2	13.4	5.8

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

without truck

OCTOBER 28 1976

EVENT 76 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.9	80.5	91.5	87.9	89.1	17.0	9.6
	2	71.8	81.1	92.0	88.9	88.9	17.1	9.3
	3	72.9	81.6	92.7	89.5	89.5	16.6	8.7
	4	76.2	83.2	93.2	90.6	91.6	14.4	7.0
	5	79.3	85.1	93.9	92.5	92.5	13.2	5.8
	6	80.6	86.2	95.0	93.6	93.6	13.0	5.6
	7	82.6	87.9	96.0	95.3	95.3	12.7	5.3
	8	84.9	89.5	97.1	96.7	96.7	11.8	4.6
	9	86.6	91.1	98.0	97.8	99.1	11.2	4.5
	10	86.7	91.6	98.8	98.5	99.7	11.8	4.9
	11	86.8	91.8	99.4	99.3	100.4	12.5	5.0
	12	86.7	91.9	99.4	99.8	100.8	13.1	5.2
	13	87.3	92.3	98.6	100.2	100.7	12.9	5.0
OH →	14	87.3	92.2	96.9	99.8	99.8	12.5	4.9
	15	87.3	91.9	95.3	99.2	99.2	11.9	4.6
	16	86.9	91.3	93.9	99.1	99.1	12.2	4.4
	17	86.5	90.8	92.9	99.0	100.4	12.5	4.3
	18	85.5	89.9	91.8	98.4	100.4	12.9	4.4
	19	84.3	88.6	91.0	96.9	98.9	12.6	4.3
	20	82.2	86.6	90.5	94.6	96.1	12.4	4.4
	21	80.5	84.8	89.5	91.9	92.9	11.4	4.3
	22	78.6	83.1	88.2	90.4	91.9	11.8	4.5
	23	77.2	82.1	87.0	89.4	90.7	12.2	4.9
	24	76.4	81.4	86.6	88.8	90.1	12.4	5.0
	25	76.0	81.1	86.2	88.5	88.5	12.5	5.1
	26	75.4	80.5	86.1	88.1	88.1	12.7	5.1

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 77 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	73.3	81.1	91.2	88.9	89.9	15.6	7.8
	2	73.5	81.4	91.5	89.0	89.0	15.5	7.9
	3	74.6	81.8	91.9	89.4	90.5	14.8	7.2
	4	79.0	84.2	92.9	91.9	91.9	12.9	5.2
	5	81.4	86.2	93.9	93.5	93.5	12.1	4.8
	6	82.1	87.1	95.2	94.3	94.3	12.2	5.0
	7	83.3	87.9	96.1	95.2	96.5	11.9	4.6
	8	84.1	88.5	96.8	95.7	96.8	11.6	4.4
	9	84.7	89.4	97.1	96.4	97.1	11.7	4.7
	10	85.6	90.6	97.3	97.6	98.3	12.0	5.0
	11	86.2	91.4	97.4	98.8	99.5	12.6	5.2
	12	86.9	92.2	97.5	99.9	100.5	13.0	5.3
	13	87.0	92.3	97.2	100.1	100.1	13.1	5.3
	14	87.3	92.2	96.4	99.9	99.9	12.6	4.9
OH →	15	86.7	91.6	94.9	98.7	98.7	12.0	4.9
	16	85.9	90.5	93.1	97.8	97.8	11.9	4.6
	17	84.7	89.0	91.4	96.5	96.5	11.8	4.3
	18	83.9	87.8	90.4	95.4	95.4	11.5	3.9
	19	82.9	86.9	90.0	94.3	94.3	11.4	4.0
	20	81.9	86.0	89.6	93.0	94.2	11.1	4.1
	21	80.9	85.0	89.2	92.1	93.5	11.2	4.1
	22	79.8	83.9	88.3	91.1	92.4	11.3	4.1
	23	78.9	83.2	87.8	90.6	91.6	11.7	4.3
	24	77.7	82.5	87.0	89.6	89.6	11.9	4.8
	25	76.1	81.3	86.3	88.8	88.8	12.7	5.2
	26	74.7	80.1	85.3	87.7	87.7	13.0	5.4
	27	74.5	80.0	85.1	87.4	88.5	12.9	5.5

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 78 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	71.6	81.5	93.4	88.8	88.8	17.2	9.9
2	72.6	82.0	94.0	89.6	89.6	17.0	9.4
3	76.3	83.8	94.9	91.2	91.2	14.9	7.5
4	80.0	86.1	95.8	93.6	93.6	13.6	6.1
5	84.9	89.8	97.1	97.2	98.6	12.3	4.9
6	86.2	90.7	97.8	98.2	98.2	12.0	4.5
7	87.3	91.7	98.3	98.8	100.0	11.5	4.4
8	87.4	92.3	98.7	99.3	100.7	11.9	4.9
9	88.2	93.5	99.5	100.8	102.2	12.6	5.3
10	88.2	93.9	100.0	101.7	102.9	13.5	5.7
11	87.9	93.5	99.7	101.6	102.3	13.7	5.6
OH → 12	86.9	92.4	98.5	100.5	100.5	13.6	5.5
13	86.0	91.3	96.5	98.7	98.7	12.7	5.3
14	85.3	90.2	94.0	97.7	97.7	12.4	4.9
15	84.5	89.0	91.5	96.5	96.5	12.0	4.5
16	83.4	87.5	89.5	95.0	95.0	11.6	4.1
17	81.8	86.1	88.6	93.5	93.5	11.7	4.3
18	80.9	85.4	88.5	92.8	92.8	11.9	4.5
19	80.1	84.6	88.2	92.1	92.1	12.0	4.5
20	79.5	84.1	87.7	91.4	91.4	11.9	4.6
21	78.5	83.2	87.1	90.5	90.5	12.0	4.7
22	77.4	82.3	86.8	90.0	90.0	12.6	4.9
23	77.0	81.8	86.5	89.4	89.4	12.4	4.8
24	76.9	81.8	86.4	89.3	90.4	12.4	4.9

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 79 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	72.2	80.9	92.0	88.8	88.8	16.6	8.7
	2	74.6	82.1	92.8	90.1	90.1	15.5	7.5
	3	76.7	83.4	93.6	91.2	91.2	14.5	6.7
	4	79.1	85.2	94.6	92.7	92.7	13.6	6.1
	5	80.7	86.4	95.3	94.5	94.5	13.8	5.7
	6	82.4	87.4	96.0	95.6	96.8	13.2	5.0
	7	83.9	88.9	96.9	96.5	97.6	12.6	5.0
	8	86.0	90.9	97.8	98.0	99.3	12.0	4.9
	9	88.2	93.1	98.9	100.6	101.9	12.4	4.9
	10	89.3	94.4	99.4	102.2	103.2	12.9	5.1
OH →	11	89.2	94.4	99.2	102.3	103.0	13.1	5.2
	12	88.2	93.5	97.8	101.3	101.3	13.1	5.3
	13	87.1	91.9	95.7	99.4	99.4	12.3	4.8
	14	86.5	91.0	93.4	98.2	98.2	11.7	4.5
	15	86.0	90.1	91.7	97.1	97.1	11.1	4.1
	16	84.9	89.0	90.3	96.0	97.4	11.1	4.1
	17	83.1	87.2	89.2	94.2	95.7	11.1	4.1
	18	80.8	85.2	88.1	92.6	94.4	11.8	4.4
	19	79.2	83.3	86.7	90.8	92.2	11.6	4.1
	20	79.1	82.8	86.5	90.6	92.0	11.5	3.7
	21	78.3	82.8	86.9	90.4	90.4	12.1	4.5
	22	77.6	82.3	86.9	89.9	89.9	12.3	4.7

TABLE G-IV

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64

Without Truck

OCTOBER 28 1976

EVENT 80 105 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	71.3	81.2	93.1	89.1	90.3	17.8	9.9
	2	71.5	81.7	93.7	89.2	89.2	17.7	10.2
	3	72.5	82.4	94.5	89.8	89.8	17.3	9.9
	4	77.0	84.5	95.6	91.4	91.4	14.4	7.5
	5	81.1	87.3	97.3	94.7	95.8	13.6	6.2
	6	83.4	89.2	98.6	96.7	97.2	13.3	5.8
	7	84.1	89.6	99.4	97.0	98.0	12.9	5.5
	8	85.2	91.1	99.8	98.4	99.6	13.2	5.9
	9	87.2	93.1	100.2	101.2	102.3	14.0	5.9
	10	88.5	94.2	99.9	102.3	103.1	13.8	5.7
OH →	11	88.4	93.8	98.7	101.9	101.9	13.5	5.4
	12	87.0	92.2	96.4	99.7	99.7	12.7	5.2
	13	85.6	90.5	93.8	97.9	97.9	12.3	4.9
	14	84.7	89.5	92.3	96.9	98.1	12.2	4.8
	15	84.1	88.6	90.9	96.3	97.7	12.2	4.5
	16	82.7	87.3	90.0	94.7	96.1	12.0	4.6
	17	81.8	86.1	88.8	93.4	94.9	11.6	4.3
	18	80.7	84.8	87.5	92.2	93.8	11.5	4.1
	19	79.6	83.9	87.0	91.3	92.9	11.7	4.3
	20	77.5	82.5	86.7	90.2	91.4	12.7	5.0
	21	75.1	81.1	86.5	89.0	89.0	13.9	6.0
	22	73.3	80.1	86.0	88.2	88.2	14.9	6.8

TABLE G-V

NOISE LEVEL TIME HISTORY DATA

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 81 105 KT. FLY BY MIC. CENTERLINE(HARD)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	70.4	80.9	92.5	88.2	88.2	17.8	10.5
	2	72.3	81.8	93.1	89.2	89.2	16.9	9.5
	3	75.3	83.1	94.0	90.7	91.7	15.4	7.8
	4	78.3	84.9	94.9	92.0	92.0	13.7	6.6
	5	81.3	87.2	95.6	94.6	94.6	13.3	5.9
	6	84.0	89.2	96.2	96.5	97.6	12.5	5.2
	7	84.9	90.1	97.0	97.2	97.2	12.3	5.2
	8	85.5	90.6	98.2	97.9	98.9	12.4	5.1
	9	87.7	92.8	99.8	100.5	101.7	12.8	5.1
	10	88.8	94.1	100.6	102.1	103.1	13.3	5.3
	11	89.6	94.7	100.2	102.7	103.4	13.1	5.1
	12	88.7	93.7	98.4	101.5	101.5	12.8	5.0
	13	87.8	92.4	95.7	99.6	99.6	11.8	4.6
OH →	14	86.3	90.8	92.8	97.9	97.9	11.6	4.5
	15	85.1	89.5	91.1	96.7	96.7	11.6	4.4
	16	83.6	87.9	89.9	95.4	96.7	11.8	4.3
	17	81.7	86.3	89.0	93.6	95.0	11.9	4.6
	18	80.2	85.0	87.8	91.9	93.4	11.7	4.8
	19	79.7	84.1	86.8	91.4	92.7	11.7	4.4
	20	79.3	83.8	86.2	90.9	92.5	11.6	4.5
	21	78.1	82.9	86.3	90.4	91.9	12.3	4.8
	22	76.5	82.0	86.1	89.7	91.2	13.2	5.5

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 43 9 DEGREE APPROACH MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-8.0	-6.0	-4.0	-2.0	0	2.0	4.0	5.5
17	70.4	70.6	75.3	74.7	75.1	77.6	78.9	82.5	81.7
18	83.2	84.9	85.9	86.0	85.9	81.6	79.9	80.7	76.7
19	71.7	74.4	74.8	75.7	77.8	76.4	76.1	78.3	79.2
20	71.7	70.8	72.1	72.5	73.3	70.9	74.0	76.4	77.7
21	81.6	76.7	74.8	72.1	71.6	75.9	75.8	69.3	72.1
22	68.0	63.5	65.6	74.9	80.0	83.8	81.0	70.9	65.7
23	63.5	67.5	75.0	83.5	86.5	86.4	86.5	77.2	68.3
24	73.1	78.5	80.9	86.5	87.5	88.3	87.4	78.7	71.8
25	77.5	80.8	81.0	82.2	81.9	78.5	77.6	78.6	74.1
26	75.9	77.1	76.1	73.6	77.4	79.4	78.9	73.1	72.8
27	67.8	65.8	65.0	72.6	78.3	77.4	78.6	74.8	66.2
28	62.3	67.0	70.1	69.7	73.2	76.2	76.0	73.2	70.1
29	66.1	66.9	65.9	71.3	74.9	75.2	75.3	71.7	68.6
30	61.0	64.3	67.6	67.6	74.5	74.4	74.2	69.4	67.6
31	60.5	61.3	64.7	66.6	72.6	73.0	74.7	70.1	68.3
32	59.4	60.9	63.9	66.1	72.1	71.7	71.4	67.5	64.8
33	55.9	56.9	59.6	62.8	68.7	68.9	68.8	65.9	62.4
34	55.0	55.4	56.1	59.7	66.3	66.3	66.1	62.1	59.6
35	55.0	55.0	55.2	57.1	63.6	63.8	63.6	59.9	57.1
36	55.0	55.0	55.0	55.0	59.6	61.2	60.7	57.2	55.3
37	55.0	55.0	55.6	57.1	65.4	64.8	61.0	57.6	55.3
38	55.0	55.0	55.0	55.0	55.0	55.3	55.4	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	76.7	78.7	79.6	82.7	85.7	85.7	85.4	80.5	77.1
D	82.4	84.2	85.2	88.8	90.9	91.1	90.6	85.5	82.4
OASPL	89.2	90.6	91.4	93.0	93.8	95.3	95.3	91.4	88.2
PNL	90.3	92.1	93.0	96.2	98.8	99.2	98.7	93.6	90.3
PNLT	91.8	92.1	94.5	96.2	101.5	101.4	98.7	93.6	90.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 51 6 DEGREE APPROACH MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.0	-6.5	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	5.0
17	69.2	70.9	73.3	73.8	76.1	76.6	77.8	79.4	80.4	80.3
18	80.7	83.6	86.3	84.9	84.6	82.6	82.3	83.6	81.8	79.1
19	71.1	72.4	75.5	76.7	74.2	73.6	73.0	74.9	76.3	76.2
20	73.0	71.8	73.3	74.7	73.6	70.7	68.8	69.8	72.5	76.4
21	75.5	73.4	74.9	70.4	68.0	73.2	74.1	74.1	72.5	67.5
22	65.4	63.4	64.5	68.5	77.8	82.0	81.9	80.6	77.9	65.5
23	62.6	68.4	75.1	78.1	84.7	86.9	86.6	84.4	81.5	71.3
24	69.2	78.7	84.3	83.3	88.0	86.1	84.7	82.6	83.3	75.1
25	74.6	82.2	84.6	82.4	83.6	76.8	74.2	73.3	77.6	74.7
26	74.0	77.2	78.0	74.0	75.1	77.7	78.1	79.5	78.2	69.5
27	66.7	65.1	67.2	73.0	79.1	78.2	77.0	77.4	79.4	71.3
28	58.3	67.7	71.2	72.1	74.3	74.9	75.5	77.6	75.4	70.9
29	62.2	66.9	66.8	70.0	75.3	75.2	75.6	76.8	73.8	68.7
30	58.9	65.5	67.4	68.6	73.1	75.2	74.9	75.5	73.2	66.1
31	57.9	62.1	64.0	67.6	71.0	73.5	73.4	74.2	72.4	66.6
32	55.9	61.6	63.3	66.1	70.4	72.6	72.4	72.4	68.7	63.0
33	55.0	57.6	59.0	62.0	67.1	69.1	69.1	69.8	67.1	61.2
34	55.0	55.4	56.4	59.0	62.9	65.8	66.0	66.4	63.8	57.0
35	55.0	55.0	55.0	55.6	60.1	62.8	63.0	63.2	60.9	55.0
36	55.0	55.0	55.0	55.0	56.3	58.8	59.4	59.8	57.7	55.0
37	55.0	55.0	55.0	55.0	61.9	60.9	61.9	61.3	57.1	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	73.6	79.6	82.1	81.5	85.3	85.0	84.5	85.0	83.9	76.8
D	79.6	84.9	87.8	86.9	90.7	90.3	89.8	89.6	88.7	82.0
OASPL	86.9	88.6	91.4	90.8	93.6	94.0	94.2	94.5	94.3	88.5
PNL	88.2	92.7	94.9	94.5	98.3	97.9	97.6	97.0	96.1	90.1
PNLT	89.4	92.7	96.4	94.5	100.4	99.2	99.2	98.3	96.1	90.1

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.0	-4.5	-3.0	-1.5	0	.5	1.5	3.0	4.5	5.5
17	78.0	79.3	77.9	74.2	79.1	81.9	85.6	81.4	81.9	82.3
18	82.0	85.1	87.8	87.5	91.1	91.3	88.3	77.8	75.1	72.5
19	73.1	78.3	79.7	78.6	75.7	75.9	75.9	75.9	75.5	74.1
20	71.2	75.7	77.0	75.4	72.9	71.2	70.7	73.2	76.3	76.7
21	78.7	82.8	83.3	74.4	69.0	70.1	71.1	64.7	66.6	68.7
22	69.2	71.8	69.9	66.5	74.0	77.5	79.3	73.5	63.0	60.4
23	69.0	67.6	64.9	76.5	81.8	83.1	82.3	76.6	69.5	62.9
24	63.6	65.4	74.6	81.0	84.4	84.9	83.7	79.4	75.1	70.4
25	61.5	73.6	81.3	82.8	81.5	80.4	76.7	75.3	73.9	72.2
26	69.0	77.8	83.2	80.5	80.9	82.2	82.3	75.5	69.2	70.6
27	71.9	79.1	80.0	76.8	83.7	83.4	82.4	78.5	70.2	65.0
28	70.8	74.0	75.2	79.8	79.2	80.2	79.4	72.2	70.1	67.8
29	66.1	70.4	77.7	77.8	80.5	79.7	77.2	72.5	69.4	66.5
30	65.6	73.5	75.4	78.0	79.6	79.5	77.6	71.9	67.2	66.0
31	64.5	68.9	74.6	75.9	78.1	78.3	77.1	70.1	65.9	64.2
32	59.8	66.3	71.2	73.9	75.7	75.1	72.8	66.9	61.4	60.5
33	56.0	61.3	66.0	69.5	71.8	71.4	69.5	63.6	57.9	56.7
34	55.0	60.2	65.3	65.6	68.1	68.2	66.0	58.9	55.2	55.0
35	55.0	55.4	58.7	60.0	64.2	64.0	61.7	55.3	55.0	55.0
36	55.0	55.0	55.0	55.8	58.6	58.9	57.5	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.2	56.1	55.8	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.4	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	75.4	81.3	85.2	86.2	87.8	87.7	86.6	81.5	76.9	74.6
D	81.0	85.8	89.0	89.7	91.9	92.0	90.8	85.9	81.6	79.9
OASPL	89.2	91.5	92.7	91.8	94.0	94.5	94.7	91.3	87.6	85.8
PNL	88.8	93.7	97.1	97.1	99.1	99.2	98.1	93.4	89.5	87.9
PNLT	88.8	95.0	97.1	97.1	99.1	99.2	98.1	93.4	89.5	87.9

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G - VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.0	-3.5	-3.0	-1.0	0	1.0	3.0	5.0	7.0
17	79.4	82.5	82.4	81.8	74.6	76.7	80.0	79.4	80.6	80.2
18	82.2	85.3	89.1	90.1	88.7	88.7	88.9	78.0	73.6	70.5
19	74.6	77.3	79.4	79.4	76.5	74.3	73.3	73.0	74.8	71.5
20	74.1	75.7	76.7	76.4	73.6	70.4	68.4	70.0	72.1	72.7
21	75.7	81.4	83.5	82.7	68.9	69.7	71.2	68.6	65.0	67.5
22	69.0	71.6	72.4	70.6	71.0	74.0	75.4	74.2	63.4	60.3
23	68.7	69.8	66.3	68.5	78.6	80.6	80.1	78.2	70.8	61.1
24	64.9	61.9	74.6	76.7	81.5	82.1	80.1	79.4	75.7	66.1
25	59.6	70.6	79.1	81.5	81.1	79.2	73.6	73.3	74.7	69.3
26	63.2	75.8	82.0	83.5	75.7	78.7	80.5	77.6	69.6	69.5
27	68.1	77.0	79.5	79.2	80.5	81.7	79.2	77.8	71.7	63.1
28	67.8	73.4	72.8	75.9	77.5	77.6	78.5	75.0	70.8	64.9
29	66.2	68.7	76.3	77.0	77.4	77.4	76.5	72.6	69.5	64.9
30	60.6	73.3	73.4	75.6	76.3	77.0	75.1	71.7	67.3	62.1
31	61.8	66.3	72.7	73.1	74.0	75.8	74.2	70.5	65.8	61.8
32	57.2	64.3	70.1	70.7	72.6	72.5	71.1	66.0	62.3	58.8
33	55.4	59.0	64.2	64.9	68.3	69.0	68.1	62.9	58.7	55.2
34	55.0	56.3	62.0	62.2	64.5	65.0	64.3	58.6	55.2	55.0
35	55.0	55.0	56.3	56.6	60.0	60.7	60.4	55.7	55.0	55.0
36	55.0	55.0	55.0	55.0	55.5	56.0	56.2	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.5	55.2	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.5	80.2	83.9	85.0	85.1	85.6	84.5	81.6	76.9	71.8
D	79.5	84.9	88.0	89.1	89.1	89.6	88.7	85.9	82.0	77.9
OASPL	88.9	92.3	94.1	94.8	91.9	92.3	93.0	91.7	87.1	83.2
PNL	87.3	92.4	96.3	97.2	96.2	96.9	96.1	93.2	89.7	86.2
PNLT	87.3	94.3	97.3	97.2	96.2	96.9	96.1	93.2	89.7	86.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.0	-4.5	-3.0	-1.5	0	1.5	3.0	4.5	6.0
17	76.7	77.6	77.3	75.3	78.7	86.8	84.1	77.1	79.7
18	81.0	83.5	86.7	88.5	90.2	88.8	76.1	73.1	71.8
19	74.1	75.2	78.2	77.7	77.0	74.4	75.7	76.5	72.9
20	72.1	73.7	75.0	74.8	72.5	69.8	72.2	75.4	76.5
21	77.3	79.7	79.9	74.9	69.5	70.2	65.2	65.0	67.3
22	67.8	68.9	66.9	66.5	74.2	78.2	74.3	65.8	59.1
23	65.5	66.5	63.0	75.5	81.3	81.1	77.8	71.1	63.3
24	58.4	62.4	70.8	81.9	83.8	81.6	78.9	74.7	69.6
25	59.1	71.2	78.2	82.6	81.1	74.3	74.8	73.9	72.0
26	66.8	74.9	80.0	78.4	79.4	80.3	76.6	70.4	70.9
27	68.6	75.1	76.3	77.9	83.2	79.8	77.9	72.8	64.2
28	67.5	71.7	71.7	78.7	78.1	78.5	73.1	73.0	68.2
29	62.1	68.1	75.5	78.8	79.5	76.3	73.8	69.7	67.1
30	61.9	71.2	74.0	77.9	79.0	75.7	71.2	67.7	65.1
31	62.1	65.2	71.9	76.5	77.2	74.3	69.7	66.3	62.8
32	57.0	64.0	68.0	74.1	74.6	71.4	66.3	62.4	59.8
33	55.0	59.3	63.3	69.8	70.2	66.7	62.3	58.1	55.5
34	55.0	56.7	62.1	66.3	66.8	63.0	58.1	55.2	55.0
35	55.0	55.0	55.8	61.2	61.7	59.4	55.3	55.0	55.0
36	55.0	55.0	55.0	56.7	57.4	55.6	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.3	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.1	78.3	82.3	85.9	87.1	84.5	81.2	77.6	74.3
D	79.0	83.1	86.3	90.0	91.2	89.2	85.7	82.0	79.6
OASPL	89.2	90.2	91.0	92.4	93.3	93.8	90.9	87.0	84.4
PNL	87.1	90.9	94.4	97.1	98.4	96.4	93.3	89.7	87.5
PNLT	87.1	92.4	94.4	97.1	98.4	96.4	93.3	89.7	87.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 43 9 DEGREE APPROACH MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.0	-13.5	-10.0	-6.5	-3.0	0	.5	4.0	7.5	10.0
17	68.7	69.8	73.0	74.4	77.8	82.0	82.3	81.1	78.4	75.5
18	76.0	80.1	80.9	81.2	78.9	82.3	82.3	84.1	78.5	73.8
19	66.9	69.3	71.2	73.2	74.7	78.2	79.4	83.6	80.6	74.4
20	71.1	70.8	71.0	71.7	77.2	78.2	78.4	80.6	80.8	77.8
21	76.0	76.2	76.6	73.1	71.2	68.8	69.0	75.5	76.1	73.2
22	67.3	69.1	64.2	63.4	65.2	72.0	74.2	65.5	74.7	69.9
23	67.6	64.7	58.2	63.3	73.9	77.4	78.6	74.4	72.9	72.3
24	59.8	62.2	64.6	70.7	77.2	79.9	80.6	79.2	66.5	69.7
25	66.9	67.3	68.7	72.9	78.2	77.5	77.7	78.5	63.0	61.9
26	71.3	70.3	67.8	72.3	74.3	70.0	70.0	77.9	67.4	55.6
27	72.2	68.4	63.4	65.5	72.2	75.3	76.7	68.7	68.8	56.1
28	63.3	62.6	58.4	68.1	75.2	73.1	73.6	73.3	67.5	59.7
29	65.5	64.0	63.4	66.5	76.5	75.4	75.7	68.9	62.0	61.5
30	64.8	63.2	59.2	67.1	73.2	72.1	72.5	69.8	63.1	59.1
31	58.5	60.2	59.5	62.7	73.1	72.5	72.8	69.6	64.5	58.9
32	57.2	58.0	59.7	62.2	72.1	71.1	71.1	66.3	60.4	56.4
33	55.0	55.0	56.0	58.8	67.4	68.1	68.4	64.1	56.9	55.0
34	55.0	55.0	55.0	56.3	64.5	65.3	65.8	60.8	55.1	55.0
35	55.0	55.0	55.0	55.0	62.2	62.3	63.0	57.9	55.0	55.0
36	55.0	55.0	55.0	55.0	58.2	58.8	59.4	55.5	55.0	55.0
37	55.0	55.0	55.0	55.0	63.2	60.5	60.6	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	73.5	72.5	70.8	75.2	82.7	82.7	82.9	80.3	73.8	69.6
D	78.7	78.4	78.1	80.8	86.7	87.1	87.4	86.0	80.4	77.6
OASPL	84.7	86.5	88.2	89.9	92.0	90.0	90.5	90.8	87.6	84.6
PNL	87.4	86.9	86.4	88.6	94.3	94.7	95.2	93.8	89.5	86.3
PNLT	87.4	86.9	87.9	88.6	96.5	95.8	96.3	95.3	89.5	86.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

With truck

OCTOBER 28 1976

EVENT 51 6 DEGREE APPROACH MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-20.0	-15.5	-11.0	-6.5	-2.0	0	2.5	7.0	11.5	13.5
17	68.6	70.9	70.8	69.8	77.1	80.9	81.9	77.4	78.4	74.7
18	75.5	84.4	81.9	79.9	84.2	85.3	82.0	78.0	76.2	70.5
19	70.9	76.8	70.5	72.3	78.6	77.4	80.8	81.7	77.6	73.0
20	70.8	72.2	72.4	75.4	77.4	75.5	75.4	81.3	79.7	75.2
21	75.5	79.2	75.1	75.4	69.2	67.5	70.0	74.2	74.2	71.2
22	66.1	70.5	68.9	65.7	67.4	73.8	74.8	73.5	74.5	65.8
23	63.8	66.3	65.2	63.5	75.8	77.0	79.1	70.5	79.4	64.4
24	60.8	64.5	60.8	67.2	77.8	78.5	79.4	66.8	78.2	63.8
25	58.1	63.2	65.7	72.5	76.5	74.8	76.0	72.3	76.1	64.1
26	62.3	66.1	70.9	74.3	71.4	72.2	71.0	72.5	70.8	62.4
27	63.4	68.6	71.3	66.9	75.0	77.7	76.3	71.3	65.9	58.1
28	59.3	63.4	64.7	63.5	73.4	73.2	71.7	66.7	62.6	56.4
29	57.1	60.7	64.3	67.4	75.6	75.7	73.8	62.3	63.5	55.5
30	55.5	60.3	63.7	61.7	72.2	74.0	72.0	62.0	62.3	55.1
31	55.0	56.7	58.5	59.9	71.2	72.4	70.7	62.5	65.6	55.0
32	55.0	55.0	56.3	59.3	69.2	71.4	67.9	59.5	60.0	55.0
33	55.0	55.0	55.0	56.3	65.9	67.6	65.5	56.4	56.3	55.0
34	55.0	55.0	55.0	55.2	62.3	63.8	62.3	55.0	55.0	55.0
35	55.0	55.0	55.0	55.0	59.5	60.9	59.6	55.0	55.0	55.0
36	55.0	55.0	55.0	55.0	55.9	57.1	56.5	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	58.9	57.2	56.8	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.2	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	66.6	71.3	73.1	74.5	81.6	82.7	81.4	75.2	76.4	66.1
D	75.6	79.3	78.8	80.0	85.9	86.9	86.0	81.3	82.9	75.4
OASPL	83.1	87.4	87.2	89.8	91.6	90.5	90.3	87.3	88.2	81.6
PNL	84.6	88.0	87.4	88.8	93.3	94.4	93.9	89.9	91.1	84.2
PNLT	84.6	88.0	87.4	90.4	94.4	94.4	93.9	89.9	92.6	84.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT67 95 KT. FLY BY MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.5	-4.0	-2.5	-1.0	0	.5	2.0	3.5	6.5
17	78.2	77.7	78.0	75.5	75.4	79.2	82.4	85.0	79.6	69.6
18	81.5	82.2	85.6	89.6	89.8	91.1	90.9	83.6	73.9	70.0
19	70.2	71.1	74.9	76.5	76.3	74.7	74.5	74.4	76.7	74.5
20	66.7	70.7	72.5	73.9	73.9	74.7	74.3	72.7	75.4	75.5
21	77.6	81.0	79.7	76.3	68.7	68.6	67.9	66.9	66.3	67.5
22	67.2	69.3	68.8	65.2	68.1	73.5	74.9	72.6	64.7	63.7
23	66.3	73.2	68.2	68.8	78.2	80.6	81.5	78.3	71.5	58.2
24	63.4	64.3	67.7	76.4	81.6	82.7	82.4	81.1	75.8	61.6
25	60.6	70.3	75.8	80.9	82.3	80.3	78.3	76.0	76.2	68.3
26	66.4	77.1	79.3	81.6	77.3	78.4	79.6	76.7	71.5	71.9
27	70.1	78.5	79.7	77.7	80.1	82.7	82.8	80.0	74.8	69.7
28	69.9	75.9	73.0	78.1	79.6	77.9	77.3	74.5	72.5	63.6
29	62.7	67.9	72.8	76.5	78.6	79.5	78.3	75.3	70.5	66.7
30	64.2	71.3	72.0	76.0	76.9	77.6	77.9	73.9	69.1	64.3
31	62.2	65.6	71.3	74.5	76.4	76.7	76.1	73.4	68.8	63.8
32	57.1	63.6	68.2	71.7	73.3	74.2	73.7	70.2	63.9	59.0
33	55.0	57.9	62.8	68.2	70.0	70.5	69.8	66.4	59.9	55.1
34	55.0	55.2	59.2	64.1	66.2	66.3	65.9	62.3	56.1	55.0
35	55.0	55.0	55.5	58.9	62.1	62.5	61.8	58.6	55.0	55.0
36	55.0	55.0	55.0	55.1	57.1	57.6	57.2	55.7	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.4	55.4	55.3	55.0	55.0
38	55.0	55.0	55.0	55.0	58.1	56.8	55.5	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	73.6	80.9	81.5	84.4	85.8	86.7	86.4	83.4	79.2	73.7
D	79.6	84.2	85.9	88.5	90.0	90.5	90.4	87.7	83.4	78.5
OASPL	89.0	90.6	92.5	93.9	94.1	94.6	94.6	91.1	86.4	82.0
PNL	87.4	92.4	94.0	96.2	97.0	98.0	97.9	95.2	90.9	87.2
PNLT	87.4	93.9	94.0	96.2	97.5	98.0	97.9	95.2	90.9	87.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.5	-4.0	-3.0	-2.5	-1.0	0	.5	2.0	3.5	6.0
17	80.5	82.8	82.9	79.4	77.0	75.1	77.0	78.9	82.1	76.6	68.4
18	82.4	84.4	86.6	87.1	86.3	87.6	89.3	89.4	83.2	73.6	70.9
19	72.4	74.8	77.9	76.8	75.6	75.5	72.7	72.0	72.9	74.7	72.9
20	68.4	72.7	74.0	73.5	72.7	70.1	67.7	66.4	68.4	72.2	72.7
21	77.8	79.9	81.8	78.7	74.7	67.5	73.3	74.2	70.0	63.6	67.0
22	68.8	69.9	71.4	67.7	65.3	71.7	75.3	76.5	73.6	71.2	61.8
23	68.0	71.1	66.7	72.9	75.0	78.1	80.4	81.6	79.0	74.9	60.9
24	60.7	67.9	76.0	79.9	80.0	80.6	79.4	79.3	79.4	77.9	67.0
25	63.7	75.2	81.3	83.6	82.9	77.5	72.7	72.1	71.8	73.7	70.1
26	68.0	81.7	82.5	81.7	79.6	76.8	79.1	80.2	79.1	71.9	70.0
27	67.9	80.9	77.4	74.5	75.5	80.2	78.7	76.9	75.8	75.7	64.1
28	66.3	73.6	73.9	78.0	77.9	75.6	77.0	78.7	77.3	71.5	65.3
29	59.8	71.7	73.8	73.2	72.6	75.5	76.0	77.0	74.3	72.3	65.5
30	61.2	69.8	71.3	73.2	72.4	75.3	75.3	75.4	73.5	70.0	61.4
31	59.3	62.9	69.6	70.7	71.0	73.9	74.2	74.2	72.4	68.7	61.2
32	57.2	60.3	66.1	68.4	68.2	71.6	71.9	71.8	69.2	64.7	58.2
33	55.0	56.6	60.3	64.1	64.4	67.0	67.8	68.0	65.5	60.9	55.1
34	55.0	55.0	59.1	61.6	61.2	64.0	64.2	64.0	61.4	56.4	55.0
35	55.0	55.0	55.7	57.0	57.0	60.0	60.7	60.5	57.4	55.0	55.0
36	55.0	55.0	55.0	55.0	55.0	56.2	56.3	56.3	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.9	55.9	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	56.1	55.8	55.3	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.0	82.1	82.7	83.7	83.3	84.1	84.2	84.4	82.9	79.7	72.3
D	79.3	86.2	88.0	88.8	88.0	87.9	88.4	88.8	87.1	83.7	77.7
OASPL	89.7	93.0	94.7	95.4	95.2	95.0	94.4	94.0	90.8	86.4	80.9
PNL	87.5	94.2	95.7	96.1	95.5	95.5	95.5	96.0	94.4	91.4	86.2
PNLT	87.5	94.2	95.7	97.5	96.8	95.5	95.5	96.0	94.4	91.4	86.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

With Truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.5	-4.0	-2.5	-1.0	-.5	0	.5	2.0	3.5	6.0
17	76.0	76.5	77.5	77.9	74.8	75.8	78.3	81.0	86.4	80.6	71.9
18	80.9	82.9	84.9	88.4	89.3	90.1	90.7	90.9	84.7	75.5	73.2
19	70.1	71.1	74.0	75.6	74.5	75.8	76.1	75.7	74.5	77.2	74.6
20	67.8	70.5	71.7	73.0	72.2	72.0	70.9	70.5	70.8	74.3	74.2
21	76.3	78.8	76.3	72.6	66.0	66.8	69.1	71.0	69.7	64.0	68.3
22	66.7	66.8	66.1	62.8	70.0	72.0	73.7	76.6	75.0	71.6	60.7
23	64.1	72.6	63.7	68.6	77.7	79.9	80.7	81.0	79.8	75.2	63.5
24	59.3	63.4	67.8	75.6	80.8	82.0	82.2	81.9	80.6	78.7	70.6
25	58.8	71.3	75.4	79.1	79.8	78.8	77.3	75.2	73.3	74.9	72.0
26	65.9	77.9	80.1	78.5	76.1	78.3	79.9	80.8	80.3	74.2	70.8
27	67.6	79.3	78.0	71.8	82.0	83.4	83.3	82.0	78.8	77.1	64.8
28	65.3	75.5	72.5	76.5	77.9	77.6	78.5	78.9	76.8	72.1	69.3
29	60.6	70.0	74.3	73.8	79.7	79.5	78.6	77.1	74.1	73.2	67.9
30	60.6	71.4	70.8	75.5	76.3	76.8	77.1	77.4	73.7	71.1	67.0
31	59.8	64.7	71.0	71.6	75.9	76.3	76.0	75.9	72.5	70.2	64.5
32	55.6	62.1	67.5	69.5	73.6	74.2	74.0	73.5	68.5	66.1	60.9
33	55.0	56.8	61.6	64.9	69.1	69.7	69.4	69.2	64.4	61.9	56.6
34	55.0	55.3	58.9	62.0	65.3	65.6	65.3	65.1	60.5	58.1	55.0
35	55.0	55.0	55.0	57.0	61.9	62.6	62.2	61.8	57.2	55.0	55.0
36	55.0	55.0	55.0	55.0	56.6	57.1	57.2	57.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	58.1	58.1	56.5	55.4	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	70.7	80.7	81.5	82.5	86.2	86.6	86.6	86.0	83.6	81.0	75.0
D	78.0	84.6	85.3	86.8	89.6	90.1	90.2	90.0	87.8	85.0	79.7
OASPL	87.7	90.3	91.5	93.4	94.0	94.2	94.3	94.3	92.0	87.5	82.9
PNL	86.0	92.6	93.6	94.0	96.9	97.9	97.9	97.5	95.3	92.6	87.7
PNLT	86.0	93.9	93.6	95.2	97.5	98.4	97.9	97.5	95.3	92.6	87.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 43 9 DEGREE APPROACH MIC. CENTERLINE (HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.0	-3.0	-1.0	0	1.0	3.0	5.0	7.0
17	74.0	76.8	79.9	80.7	84.5	86.9	86.8	87.5	85.8
18	84.5	86.7	87.3	86.5	84.3	84.2	83.9	87.0	79.9
19	71.2	73.8	76.2	74.7	72.2	80.2	76.7	85.2	82.1
20	69.7	72.8	73.3	78.5	85.6	89.0	85.7	82.3	80.6
21	75.3	74.7	73.6	89.1	91.3	93.0	90.8	76.0	75.7
22	64.0	72.3	81.6	90.6	91.0	93.1	89.3	82.0	71.1
23	74.0	83.7	87.6	91.6	88.0	88.2	86.6	88.1	66.6
24	80.6	86.3	86.3	85.6	79.1	84.7	80.9	89.6	71.6
25	77.9	83.5	78.5	79.7	83.2	87.2	83.7	84.7	73.2
26	75.0	75.3	73.1	81.2	80.1	81.8	79.2	76.8	73.2
27	66.3	74.1	74.3	74.3	79.7	80.3	78.0	76.9	73.3
28	67.5	72.7	69.3	73.8	75.7	77.3	74.2	74.2	70.4
29	62.9	71.1	69.9	73.6	75.6	76.3	73.0	72.1	71.8
30	64.7	69.0	69.3	72.3	74.5	74.6	72.5	68.6	69.6
31	60.8	68.9	67.0	70.6	73.9	73.3	72.8	70.5	69.8
32	60.1	67.3	66.9	71.7	73.9	72.9	69.9	66.8	65.8
33	57.8	64.5	63.7	68.0	70.6	69.9	67.1	64.2	62.1
34	56.1	62.0	61.5	65.5	68.5	68.5	65.5	62.3	60.0
35	55.0	59.5	59.5	62.9	65.2	66.7	63.2	58.9	55.9
36	55.0	55.4	56.4	60.3	62.4	63.6	61.4	57.8	55.3
37	55.3	61.3	61.0	63.6	62.3	62.3	61.0	57.0	55.1
38	55.0	55.4	55.6	56.5	56.8	58.5	55.9	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	56.7	55.1	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	78.2	83.6	83.2	86.6	86.8	88.2	85.0	85.5	78.9
D	84.1	89.4	89.8	93.4	93.3	95.0	92.2	92.1	83.9
OASPL	92.8	94.9	95.3	97.8	98.4	100.0	98.7	97.2	92.1
PNL	91.7	96.8	97.0	100.9	100.7	102.4	99.6	99.8	91.7
PNLT	91.7	98.8	98.7	102.6	100.7	102.4	99.6	99.8	91.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 49 60 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-7.0	-4.0	-1.0	0	.5	2.0	5.0	8.0	11.0
17	66.0	67.2	72.9	76.6	76.5	75.7	77.0	81.6	83.1	78.8
18	78.6	80.0	86.4	87.6	85.3	83.5	80.3	74.1	75.9	70.3
19	68.3	70.5	74.4	72.8	67.6	66.2	67.4	71.1	76.6	72.4
20	69.5	70.6	72.3	66.3	73.3	74.8	78.1	70.4	75.5	73.1
21	75.6	75.2	77.0	77.3	83.1	83.7	84.5	71.8	65.8	66.0
22	66.0	63.4	62.6	75.7	78.5	79.4	77.9	77.9	63.1	58.3
23	65.8	60.8	67.0	83.4	83.3	82.2	74.9	75.3	69.5	56.5
24	58.3	58.6	71.3	77.1	75.1	72.9	73.8	72.8	73.7	60.1
25	62.0	65.3	73.4	69.9	76.5	78.6	78.9	71.8	72.4	61.9
26	65.5	66.5	70.0	76.5	76.9	76.5	77.1	75.6	68.4	64.7
27	65.8	64.6	64.9	75.4	76.4	77.7	76.7	72.1	70.3	64.6
28	62.5	59.1	68.6	73.2	75.2	75.9	76.8	72.4	71.0	62.1
29	57.3	61.1	66.0	73.0	75.7	76.3	76.0	72.2	70.8	66.2
30	60.3	60.5	67.4	72.2	75.7	76.3	75.3	71.5	68.9	62.6
31	57.8	57.5	66.1	72.0	74.1	74.5	74.2	72.3	71.9	64.0
32	57.0	56.5	65.9	71.4	74.0	74.2	71.6	67.7	67.0	60.0
33	55.0	55.1	63.3	68.1	70.3	70.7	68.9	64.8	61.4	55.7
34	55.0	55.0	60.3	65.7	67.6	67.9	67.3	61.8	58.7	55.0
35	55.0	55.0	58.2	62.8	64.6	65.2	64.7	58.2	55.3	55.0
36	55.0	55.0	55.2	59.1	60.5	61.1	61.6	56.1	55.0	55.0
37	55.0	55.0	55.0	55.8	58.4	60.2	61.5	57.2	55.0	55.0
38	55.0	55.0	55.2	57.1	58.1	58.5	56.7	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	69.3	69.7	76.6	82.0	84.1	84.5	83.6	80.6	78.7	71.3
D	77.4	77.5	82.3	87.4	89.1	89.4	88.2	84.7	82.8	77.3
OASPL	83.8	85.4	89.2	93.3	94.3	93.9	93.4	91.7	88.1	82.9
PNL	85.3	85.2	90.7	95.4	96.6	96.7	95.8	92.3	90.5	84.7
PNLT	85.3	85.2	91.7	95.4	96.6	96.7	95.8	92.3	91.8	86.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 50 60 KT. FLY BY MIC. CENTERLINE (HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.0	-8.0	-5.0	-2.0	0	1.0	4.0	7.0	10.0	11.0
17	69.9	71.0	74.7	76.2	74.1	74.3	80.7	83.5	78.6	77.6
18	81.3	82.7	86.2	85.8	81.7	79.6	72.1	75.0	71.9	71.3
19	72.4	73.1	77.9	73.7	65.4	64.9	65.2	76.8	76.1	75.0
20	71.8	70.8	74.2	67.7	76.0	78.4	71.6	74.3	74.7	73.4
21	75.7	75.8	75.1	79.2	84.7	85.1	71.7	62.8	65.7	65.6
22	65.9	62.8	66.9	81.7	80.2	78.3	76.1	67.1	59.3	59.4
23	64.8	58.0	77.6	87.6	81.0	74.9	73.6	70.2	59.4	55.6
24	58.9	65.7	82.0	83.2	71.8	73.5	68.3	72.1	65.3	61.1
25	67.9	70.2	78.7	73.0	78.7	77.6	71.9	70.9	67.2	64.1
26	68.8	70.8	72.7	78.7	75.8	76.6	72.8	67.0	67.2	65.8
27	66.0	66.2	70.1	75.3	77.4	76.8	70.7	71.9	64.1	65.0
28	61.8	62.5	72.3	75.5	75.4	75.8	70.2	69.5	67.0	64.1
29	57.8	65.4	69.4	74.2	76.0	75.3	70.8	70.9	69.1	69.5
30	62.5	60.4	68.9	71.9	76.7	75.3	69.5	68.9	65.1	63.0
31	57.7	59.6	67.1	71.3	74.6	73.9	70.5	71.3	65.5	64.5
32	58.0	59.0	65.5	70.7	72.7	71.4	66.9	65.3	61.7	58.0
33	55.0	55.7	63.3	67.3	69.3	68.5	64.0	60.1	56.6	55.0
34	55.0	55.0	60.1	64.0	66.4	66.3	60.2	56.4	55.0	55.0
35	55.0	55.0	56.9	60.9	63.2	63.0	57.4	55.0	55.0	55.0
36	55.0	55.0	55.0	56.5	59.1	59.3	55.5	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	57.6	57.3	55.3	55.0	55.0	55.0
38	55.0	55.0	55.0	55.1	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	71.0	72.3	79.9	83.7	84.2	83.5	78.5	77.5	74.0	72.8
D	78.7	79.5	85.8	89.3	88.1	87.6	83.5	82.1	79.2	78.1
OASPL	86.7	88.5	92.1	94.1	93.1	92.2	91.5	88.2	84.6	83.4
PNL	86.1	87.1	93.8	97.5	95.8	95.5	90.4	89.9	86.6	85.9
PNLT	87.7	88.4	93.8	97.5	95.8	95.5	90.4	91.4	87.7	87.9

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-III

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 51 6 DEGREE APPROACH MIC.CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.0	-3.0	-1.5	-1.0	0	1.0	3.0	5.0	7.0
17	75.0	76.6	77.9	73.8	75.2	79.1	79.3	83.5	87.2	84.0
18	83.6	85.1	86.6	86.5	86.1	84.7	82.6	79.5	80.6	78.3
19	72.1	72.2	75.0	71.9	71.2	70.8	74.9	72.3	79.7	78.3
20	72.1	73.4	70.9	74.7	78.3	84.0	86.4	82.2	76.5	78.0
21	78.6	76.0	72.3	84.7	86.7	90.0	90.9	84.9	75.7	73.1
22	66.9	67.4	81.3	88.9	89.6	90.6	89.8	86.2	80.9	68.4
23	72.2	78.9	88.3	92.8	92.3	89.8	85.2	83.3	83.7	69.2
24	79.7	83.4	88.4	87.4	85.8	81.3	79.9	76.0	84.4	75.6
25	79.2	82.9	81.2	77.6	79.6	82.9	82.5	78.3	75.1	76.5
26	74.5	76.8	74.8	80.4	80.6	79.4	78.6	74.2	71.5	74.7
27	67.5	68.4	77.1	75.8	75.8	79.2	78.1	76.6	71.5	68.5
28	67.5	70.5	71.3	75.0	75.5	76.1	76.5	73.5	71.3	68.3
29	67.4	64.7	70.8	73.6	74.4	75.7	76.2	73.0	71.0	70.4
30	65.1	65.5	69.8	71.9	73.1	75.2	75.8	72.1	68.9	67.8
31	61.9	62.3	68.8	70.4	71.8	73.3	73.7	73.1	69.4	69.2
32	60.3	61.5	68.2	70.1	72.5	73.5	71.9	69.0	65.5	65.0
33	56.7	58.2	64.0	68.5	69.4	69.0	68.8	67.1	63.1	61.0
34	55.2	55.8	61.9	69.0	69.5	66.8	68.3	65.0	60.3	58.1
35	55.0	55.0	59.0	60.9	62.8	64.2	65.3	62.1	56.9	55.0
36	55.0	55.0	55.6	57.2	58.5	60.2	61.5	59.8	55.3	55.0
37	55.0	55.0	56.6	57.0	57.7	58.5	59.7	59.7	55.0	55.0
38	55.0	55.0	56.9	55.3	55.8	56.2	56.6	55.3	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.4	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	78.5	81.2	84.6	86.8	86.9	86.8	86.0	82.7	81.4	78.0
D	84.5	87.1	91.0	93.5	93.5	93.0	92.3	88.8	87.8	83.8
OASPL	91.3	94.0	96.6	98.4	98.3	98.2	97.9	98.1	94.4	90.5
PNL	91.7	94.0	98.1	100.9	101.1	100.6	99.8	96.7	95.6	91.4
PNLT	91.7	95.4	98.1	102.3	101.1	100.6	99.8	96.7	95.6	91.4

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 55 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-7.5	-5.0	-2.5	-.5	0	2.5	5.0	7.5	8.0
17	78.3	79.3	78.5	77.8	72.8	73.1	77.6	82.9	79.7	77.2
18	82.9	82.8	85.5	87.3	85.1	82.7	74.3	72.6	71.6	70.8
19	72.2	71.0	73.0	73.1	68.8	67.3	66.2	69.9	73.1	72.2
20	69.2	68.3	69.8	68.2	73.1	76.2	80.0	68.5	70.9	71.2
21	75.6	74.9	78.6	71.8	83.5	83.9	77.9	64.3	64.0	64.1
22	66.0	65.0	65.2	69.6	79.5	79.7	78.8	72.2	58.4	58.3
23	65.3	63.1	63.5	81.4	84.3	82.8	73.1	72.9	63.9	61.3
24	60.4	57.8	69.2	80.5	75.4	74.0	72.2	72.8	70.5	68.2
25	56.8	63.0	69.3	75.5	77.9	79.3	77.8	65.9	68.7	67.9
26	59.2	67.3	69.7	71.4	78.3	77.7	74.4	70.9	65.5	66.1
27	64.0	66.7	65.8	75.7	75.2	76.4	75.5	69.8	61.6	60.2
28	64.8	63.3	65.5	71.3	73.9	74.7	74.2	69.7	66.5	64.9
29	61.9	59.3	68.3	72.7	75.5	76.6	74.1	68.7	64.6	64.7
30	57.9	62.8	66.8	69.1	74.5	76.1	73.5	66.7	65.2	64.6
31	60.1	59.2	65.1	67.7	73.1	74.4	72.1	67.1	67.1	64.6
32	56.3	57.4	66.8	67.6	72.5	73.5	68.7	64.5	61.4	59.8
33	55.0	55.2	66.0	66.0	71.9	72.0	66.5	59.3	56.4	55.8
34	55.0	55.0	60.6	62.8	68.0	68.0	63.6	56.2	55.0	55.0
35	55.0	55.0	56.4	58.4	62.7	63.5	60.2	55.0	55.0	55.0
36	55.0	55.0	55.0	55.0	58.7	59.5	57.2	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	56.2	57.5	56.1	55.0	55.0	55.0
38	55.0	55.0	55.0	55.4	55.4	55.7	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	69.9	70.6	76.1	80.8	83.8	84.4	82.0	76.1	73.3	72.0
D	78.2	78.8	82.6	86.4	89.2	89.3	86.3	81.1	78.8	77.9
OASPL	88.6	91.0	92.1	95.9	94.0	92.8	93.8	89.4	84.3	83.3
PNL	86.3	86.5	90.2	93.7	96.7	96.5	93.5	88.7	86.4	85.2
PNLT	86.3	87.7	90.2	93.7	96.7	96.5	93.5	88.7	87.7	85.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 66 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	5.5	7.5	9.5
17	74.0	77.4	78.5	75.2	75.7	74.5	76.6	82.4	80.5	77.6
18	81.1	84.8	87.9	89.1	88.3	81.2	70.4	71.9	74.1	70.1
19	71.7	74.1	76.8	75.0	72.1	65.6	63.3	71.9	78.3	75.9
20	71.5	72.9	74.8	70.7	74.1	79.5	76.5	69.6	76.9	76.8
21	76.1	80.8	80.3	82.3	86.2	87.4	75.8	60.6	64.7	67.2
22	68.4	68.1	67.0	77.9	79.8	77.8	77.4	70.6	62.3	66.8
23	68.5	68.4	74.0	85.9	86.2	78.1	74.7	72.8	63.8	59.9
24	61.3	60.2	75.2	80.7	78.8	75.3	72.4	74.1	70.8	60.3
25	58.1	66.7	74.4	74.5	77.4	78.6	76.6	69.8	70.8	66.6
26	64.5	70.4	73.1	77.4	78.4	78.4	75.2	71.8	70.2	69.8
27	67.9	70.1	70.2	76.2	76.9	77.7	75.4	73.6	63.9	68.9
28	68.1	64.6	70.6	74.6	75.5	76.5	73.7	70.9	67.1	64.4
29	64.7	63.9	68.6	74.9	76.2	76.7	73.1	71.6	68.0	64.7
30	62.4	65.7	69.7	75.2	76.2	76.6	72.5	69.8	66.2	64.5
31	62.0	61.5	67.6	73.8	74.4	75.7	74.6	69.5	69.1	63.2
32	59.3	59.6	65.7	72.9	73.9	73.7	69.1	65.5	62.0	57.0
33	55.9	56.0	63.3	70.0	70.8	69.9	66.1	60.8	56.7	55.0
34	55.0	55.0	60.8	66.7	67.4	66.8	63.7	57.6	55.0	55.0
35	55.0	55.0	58.4	63.4	64.1	64.1	60.0	55.0	55.0	55.0
36	55.0	55.0	55.3	59.2	59.9	59.8	57.2	55.0	55.0	55.0
37	55.0	55.0	55.0	55.2	55.8	59.2	56.7	55.0	55.0	55.0
38	55.0	55.0	55.5	55.8	56.1	55.8	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.7	73.7	78.7	83.7	84.7	84.8	81.7	78.8	75.3	72.9
D	79.3	81.0	84.5	89.1	90.0	89.3	86.0	82.6	80.6	78.8
OASPL	88.3	91.9	95.5	97.3	96.9	92.9	92.5	87.7	86.1	83.8
PNL	86.7	89.4	92.6	97.4	98.1	97.1	93.2	90.2	88.2	86.6
PNLT	86.7	90.4	92.6	97.4	98.1	97.1	94.5	90.2	89.9	86.6

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
with truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.5	-2.5	-.5	0	1.5	3.5	5.5	7.5	9.5	12.0
17	81.2	81.9	74.7	75.2	79.3	83.0	82.1	80.3	76.7	75.3
18	82.8	88.3	88.9	86.4	78.3	71.8	73.0	71.8	72.6	70.8
19	72.3	76.4	74.6	70.4	67.3	70.5	77.3	77.6	78.0	77.5
20	69.3	74.2	74.6	76.4	81.8	71.2	77.8	78.8	79.5	79.8
21	75.2	78.6	87.1	87.8	84.3	68.7	68.4	69.5	69.7	72.3
22	65.7	68.0	78.8	80.5	79.0	77.4	64.4	68.2	70.2	71.0
23	60.9	76.0	87.7	86.6	74.5	76.3	69.5	59.1	67.1	71.1
24	60.5	74.7	79.7	77.1	77.7	76.0	76.3	64.9	65.2	72.5
25	65.5	74.1	78.5	80.8	80.3	72.8	74.9	69.6	62.3	70.9
26	69.4	72.7	80.2	79.8	79.9	75.7	72.7	72.3	67.0	65.4
27	69.0	71.3	78.2	79.2	79.2	73.9	70.6	70.9	68.9	63.3
28	61.5	72.3	76.5	78.6	79.4	73.6	73.4	66.5	68.0	65.1
29	65.5	70.2	76.0	77.5	78.7	73.6	70.8	68.9	64.3	66.4
30	63.6	70.4	76.1	77.7	77.6	72.2	70.8	67.2	62.4	64.6
31	61.9	68.1	74.4	76.3	76.8	72.6	71.7	69.0	65.6	63.7
32	58.9	67.1	74.4	76.0	74.9	68.7	66.8	63.5	58.2	55.8
33	55.8	63.8	70.7	71.7	71.9	64.3	61.1	57.5	55.0	55.0
34	55.3	62.4	68.7	69.5	69.4	61.5	57.2	55.6	55.0	55.0
35	55.0	59.8	65.6	66.5	66.0	57.7	55.0	55.0	55.0	55.0
36	55.0	56.1	61.7	62.6	62.9	55.3	55.0	55.0	55.0	55.0
37	55.0	55.0	57.3	58.9	59.8	55.0	55.0	55.0	55.0	55.0
38	55.0	57.0	57.9	58.7	56.9	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.2	55.2	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.8	79.3	85.9	86.5	86.4	81.3	79.3	75.9	73.0	73.8
D	80.6	85.6	91.3	91.7	90.7	85.1	83.8	80.7	79.4	80.3
OASPL	93.0	96.9	97.7	96.6	94.0	89.6	87.4	85.5	84.5	84.4
PNL	87.3	93.2	99.1	99.2	97.8	92.6	91.1	89.0	88.0	88.5
PNLT	87.3	93.2	99.1	99.2	97.8	92.6	91.1	90.2	89.8	88.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

With truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.0	-3.0	-1.0	0	1.0	3.0	5.0	7.0	8.5
17	84.0	87.2	87.2	76.0	70.7	76.0	79.8	84.0	81.8	78.5
18	83.5	86.3	89.7	87.8	83.0	79.0	71.0	72.7	72.2	72.2
19	75.1	77.4	79.4	72.0	67.3	68.9	66.7	73.9	76.3	75.3
20	72.4	72.7	72.6	70.4	76.1	77.6	74.9	73.2	74.8	76.5
21	73.8	77.7	75.6	83.9	85.7	83.7	72.5	61.7	67.6	69.8
22	66.6	69.3	68.7	79.4	80.4	78.7	79.2	66.1	63.9	66.5
23	65.7	64.0	79.9	86.6	84.2	76.6	76.2	72.2	61.0	60.6
24	60.3	61.3	81.1	80.0	74.9	76.1	73.3	74.2	68.7	60.3
25	56.6	67.0	80.4	77.0	80.6	79.5	76.3	71.8	72.5	67.7
26	62.5	71.0	76.0	78.2	79.0	79.5	77.1	68.3	72.5	71.3
27	66.7	70.5	73.3	75.5	79.6	80.1	75.1	71.5	67.8	70.3
28	67.2	64.4	74.6	74.9	77.5	79.0	74.0	69.8	66.9	67.0
29	62.0	65.4	70.7	75.3	78.6	78.3	74.1	69.8	69.9	66.4
30	63.5	64.6	69.1	74.9	78.0	78.6	73.1	67.7	67.0	63.9
31	62.9	63.5	68.4	73.6	76.5	77.1	73.2	69.1	67.5	64.6
32	58.2	60.9	66.5	72.4	75.0	74.3	69.3	66.0	64.1	60.1
33	55.1	57.6	63.4	69.4	71.7	71.6	66.1	61.0	58.7	55.6
34	55.0	55.1	61.7	66.6	68.4	68.5	63.4	57.4	55.3	55.0
35	55.0	55.0	58.4	63.3	65.4	65.4	59.4	55.1	55.0	55.0
36	55.0	55.0	55.4	59.3	61.5	61.5	56.4	55.0	55.0	55.0
37	55.0	55.0	55.0	55.6	59.4	60.0	55.3	55.0	55.0	55.0
38	55.0	55.0	55.9	57.6	58.0	56.1	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	71.7	74.4	81.5	84.2	86.5	86.2	81.9	77.5	76.3	74.2
D	80.1	82.8	88.0	89.8	90.8	90.2	86.2	82.4	81.0	79.6
OASPL	91.7	95.8	99.1	97.8	94.6	92.8	92.0	87.6	85.5	84.0
PNL	87.5	90.1	94.8	97.8	97.9	97.3	93.5	89.6	88.9	87.6
PNLT	87.5	90.1	94.8	97.8	97.9	97.3	93.5	89.6	88.9	87.6

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.5	-3.5	-2.5	-1.5	-.5	0	.5	1.5	2.5	5.0
17	80.7	79.0	77.9	74.9	73.8	73.8	76.4	79.6	77.2	82.6
18	85.3	86.4	88.4	89.6	87.2	83.9	80.5	76.3	69.9	71.7
19	74.3	75.4	75.8	74.9	70.0	67.6	67.5	66.3	66.0	73.7
20	71.9	73.0	72.1	68.6	75.3	77.6	78.8	81.2	76.8	74.7
21	77.0	77.3	74.2	81.1	86.4	87.0	85.9	80.6	74.9	62.8
22	66.3	65.8	66.9	74.3	80.0	80.6	80.1	80.7	79.0	61.6
23	60.7	67.3	80.1	86.3	86.3	84.1	81.1	74.2	75.6	69.1
24	62.0	70.1	76.8	80.4	77.6	75.3	76.0	76.1	72.9	73.4
25	66.4	70.9	73.8	73.4	80.3	80.8	80.0	79.7	76.6	72.6
26	69.0	70.2	69.8	78.9	80.3	79.4	78.7	78.4	75.9	68.8
27	68.0	65.5	73.7	78.0	80.3	80.8	80.1	79.2	74.8	71.2
28	62.9	67.7	70.8	75.1	77.8	78.1	78.2	77.6	73.4	68.9
29	65.2	65.8	70.6	74.9	77.8	78.3	78.1	76.9	73.5	68.6
30	64.1	65.9	70.2	74.5	77.8	78.2	78.3	77.6	72.8	66.5
31	63.1	63.6	68.4	73.0	76.2	76.5	77.0	77.9	75.3	67.0
32	60.3	61.5	66.3	72.4	75.2	75.5	75.3	74.0	70.1	62.4
33	56.7	58.4	62.6	68.4	71.4	72.1	71.8	71.3	66.6	57.8
34	56.1	57.7	63.4	67.2	68.9	69.6	69.6	69.5	64.7	55.5
35	55.0	55.4	60.6	64.0	65.8	66.8	67.0	65.4	60.4	55.0
36	55.0	55.0	56.2	58.9	62.0	62.9	63.1	61.5	57.0	55.0
37	55.0	55.0	55.0	55.4	57.8	59.0	59.8	58.8	55.3	55.0
38	55.0	55.0	57.9	58.8	58.0	58.4	58.5	56.4	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.8	74.9	79.5	83.9	86.5	86.6	86.3	85.9	82.5	76.2
D	80.7	82.2	85.8	89.5	91.8	91.6	90.9	90.2	86.9	81.2
OASPL	93.0	94.3	96.5	97.5	96.1	94.7	93.3	92.0	89.8	86.0
PNL	88.8	90.2	93.1	97.5	98.9	98.4	98.0	97.0	93.7	88.6
PNLT	88.8	90.2	93.1	98.1	98.9	98.4	98.0	97.0	94.9	88.6

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 70 3 DEGREE APPROACH MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.5	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	5.5	7.5
17	73.2	74.4	76.2	77.0	81.7	82.4	81.8	84.7	87.3	85.9
18	85.7	86.3	88.0	88.7	87.7	85.8	81.9	77.3	78.9	76.4
19	74.3	75.7	79.1	77.1	70.2	68.9	74.0	71.3	78.4	80.8
20	73.7	75.4	76.0	71.6	80.9	83.0	81.2	77.1	75.7	78.2
21	79.3	81.2	78.9	75.5	90.0	91.2	87.0	77.5	64.8	71.5
22	73.5	72.0	68.3	84.3	91.5	91.3	83.8	82.3	71.3	63.6
23	70.3	69.0	78.2	88.8	89.2	88.0	77.1	81.0	75.1	65.2
24	70.0	78.1	83.7	86.6	82.4	81.5	78.7	75.3	77.1	71.7
25	74.1	79.4	82.8	78.8	85.0	85.9	81.7	76.1	74.4	73.0
26	77.0	77.8	79.0	78.6	83.0	82.2	80.6	77.5	71.9	70.8
27	72.9	74.9	70.6	79.0	82.4	83.1	79.3	74.9	74.7	65.6
28	66.1	68.2	73.7	72.6	77.8	79.5	78.7	73.8	71.9	70.1
29	65.9	71.4	69.5	72.7	76.8	77.7	77.3	74.5	73.7	70.9
30	65.8	66.3	69.8	71.7	76.3	77.5	76.6	73.0	71.9	70.7
31	61.7	64.8	67.8	69.6	74.8	75.5	76.0	76.2	74.7	70.9
32	59.0	62.4	65.8	69.1	73.3	73.7	73.6	69.9	69.1	66.8
33	56.7	59.3	62.4	65.5	70.4	70.7	70.0	67.9	65.2	61.9
34	55.2	56.8	59.7	62.6	67.3	67.9	68.7	64.7	61.0	56.7
35	55.0	55.5	57.3	59.6	64.5	65.4	66.3	60.8	56.3	55.0
36	55.0	55.0	55.0	56.2	61.1	61.7	62.8	58.5	55.0	55.0
37	55.0	55.0	55.0	59.2	59.7	61.0	63.0	59.9	55.4	55.0
38	55.0	55.0	56.2	60.2	57.4	58.3	59.2	55.3	55.0	55.0
39	55.0	55.0	55.0	55.0	55.4	56.0	58.5	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.2	55.4	55.4	55.0	55.0	55.0
A	77.0	79.9	82.6	84.9	87.9	88.2	85.9	83.1	81.4	78.4
D	83.1	85.5	88.4	91.3	93.8	93.9	91.0	88.2	85.7	82.9
OASPL	90.9	92.3	95.0	97.8	99.2	99.2	99.3	96.2	91.9	89.5
PNL	91.3	93.0	95.5	98.5	101.2	101.4	98.3	95.2	93.2	90.5
PNLT	91.3	94.4	96.7	99.0	101.2	101.4	98.3	96.8	94.6	90.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 67 95 KT. FLY BY MIC. CENTERLINE(SOFT)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.0	-2.5	-1.0	0	.5	2.0	3.5	5.0	6.5	8.0
17	79.9	80.0	77.5	75.2	74.6	79.1	78.4	80.3	79.0	77.8
18	82.7	86.3	89.5	88.9	86.8	79.4	69.6	71.5	70.6	71.0
19	72.0	75.0	75.3	72.3	68.8	66.5	68.0	73.6	75.5	75.6
20	66.9	69.3	66.9	74.8	78.4	80.7	73.2	72.2	75.5	77.1
21	70.6	72.2	80.8	86.8	89.2	85.7	74.0	62.7	65.4	67.0
22	60.2	64.7	74.3	78.9	79.8	80.6	77.8	68.7	61.6	65.1
23	66.5	74.8	85.6	86.6	84.8	75.7	77.4	73.7	67.9	60.3
24	66.5	74.7	80.2	77.3	75.4	76.8	74.0	76.2	73.3	66.1
25	66.7	73.6	74.8	79.3	80.9	80.0	73.6	73.3	73.5	68.6
26	67.5	69.3	79.3	81.0	79.5	77.3	76.4	70.9	73.3	69.8
27	62.0	70.4	78.9	79.4	79.7	78.3	74.4	73.6	67.4	67.2
28	62.1	71.2	75.1	77.6	78.5	77.3	73.4	72.0	72.1	64.9
29	62.6	67.3	73.4	76.7	77.5	76.5	73.2	72.5	68.4	66.4
30	59.5	68.6	73.5	76.3	77.2	75.9	71.8	71.0	68.2	62.7
31	58.3	65.7	71.4	74.6	75.7	76.6	72.0	70.8	67.7	65.0
32	56.8	64.1	70.2	73.5	74.4	72.6	68.2	67.1	62.6	57.8
33	55.0	60.1	66.7	70.3	71.0	69.2	64.4	62.1	56.7	55.0
34	55.0	58.4	64.1	66.6	67.7	66.2	61.4	58.7	55.0	55.0
35	55.0	55.5	60.7	63.1	64.4	63.1	57.6	55.0	55.0	55.0
36	55.0	55.0	57.0	59.7	60.4	60.1	55.3	55.0	55.0	55.0
37	55.0	55.0	55.0	55.5	56.7	56.8	55.0	55.0	55.0	55.0
38	55.0	55.0	58.0	56.7	56.4	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	70.3	77.5	83.5	85.8	86.3	84.6	80.9	79.4	77.0	72.8
D	78.5	83.0	89.0	90.8	90.9	89.0	85.0	83.4	81.4	78.2
OASPL	91.1	94.5	97.2	96.8	95.9	92.1	89.5	87.3	85.6	83.6
PNL	86.5	91.0	96.8	98.5	98.6	96.6	92.7	90.9	89.4	86.9
PNLT	86.5	91.0	96.8	98.5	98.6	96.6	92.7	90.9	90.8	88.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

With truck

OCTOBER 28 1976

EVENT 68 95 KT. FLY BY MIC. CENTERLINE(SOFT)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.5	-3.5	-1.5	0	.5	2.5	4.5	6.5	8.5
17	85.1	86.4	77.1	72.4	73.4	75.9	80.9	77.5	75.0
18	84.2	86.6	87.7	83.8	81.3	68.9	71.5	68.4	69.8
19	74.6	77.2	73.8	67.8	68.4	61.7	69.3	74.0	73.8
20	69.6	71.1	67.7	76.8	79.1	76.5	67.7	71.9	75.0
21	70.2	72.4	81.7	88.0	88.5	76.1	61.2	61.8	64.2
22	61.4	67.5	77.9	79.6	79.3	77.0	70.9	59.4	61.7
23	62.3	80.0	86.3	83.1	79.3	73.9	72.9	66.3	59.1
24	64.8	79.2	81.0	74.8	75.9	72.9	72.9	71.4	65.5
25	66.0	79.2	75.5	79.9	79.3	76.8	67.7	72.3	68.7
26	67.7	74.4	78.0	78.4	78.0	75.1	71.7	71.0	70.9
27	65.3	73.4	76.0	79.6	79.4	76.8	71.6	65.2	66.6
28	61.5	74.0	73.1	77.6	78.0	75.1	67.8	69.0	62.4
29	63.1	68.9	72.2	77.1	77.7	74.0	69.3	64.8	65.5
30	61.5	69.1	72.4	76.5	77.1	72.8	68.0	65.6	63.7
31	60.2	66.3	71.4	75.1	75.4	71.7	67.4	65.8	63.7
32	57.5	64.9	69.8	73.6	73.6	68.3	64.1	60.9	58.0
33	55.1	60.9	66.5	69.6	69.5	64.8	59.4	55.7	55.0
34	55.0	58.5	63.6	66.7	67.0	62.5	56.1	55.0	55.0
35	55.0	55.4	60.6	63.2	63.3	58.7	55.0	55.0	55.0
36	55.0	55.0	56.4	58.9	59.3	55.9	55.0	55.0	55.0
37	55.0	55.0	55.0	56.6	57.2	55.2	55.0	55.0	55.0
38	55.0	55.0	55.0	55.1	55.1	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	70.9	80.3	82.9	85.3	85.3	81.3	76.5	74.7	72.5
D	79.7	86.1	88.8	89.8	89.4	85.4	80.8	79.3	77.7
OASPL	92.9	97.0	97.7	94.9	93.3	91.4	86.9	83.8	81.9
PNL	87.6	93.4	96.7	97.6	97.6	93.1	88.8	87.5	86.6
PNLT	87.6	93.4	96.7	97.6	97.6	93.1	88.8	88.8	86.6

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

with truck

OCTOBER 28 1976

EVENT 69 95 KT. FLY BY MIC. CENTERLINE (SOFT)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.5	-3.0	-1.5	0	1.5	3.0	4.5	6.0	8.0
17	79.6	78.0	75.2	74.0	78.3	77.1	81.0	79.2	77.1
18	84.8	86.3	89.3	85.2	76.6	68.9	69.8	71.0	71.1
19	73.6	74.9	74.0	68.4	65.4	65.5	70.8	73.8	75.6
20	68.1	69.0	67.6	79.2	79.9	70.8	69.9	73.4	75.6
21	69.8	71.0	82.6	89.2	81.8	73.0	62.2	62.0	65.9
22	60.1	64.1	75.4	80.3	79.5	78.0	69.7	61.3	63.2
23	67.1	76.2	85.5	82.5	74.1	75.6	71.8	66.0	60.2
24	67.1	75.4	78.2	75.2	76.2	72.2	73.6	72.6	65.6
25	67.3	73.0	74.9	80.6	79.2	72.2	70.3	73.0	68.5
26	66.4	67.1	80.2	79.2	77.4	75.1	68.7	71.0	69.3
27	61.7	67.3	77.4	79.9	77.6	72.0	70.7	66.3	66.1
28	63.0	66.3	74.8	78.1	76.1	71.4	67.1	69.0	62.1
29	61.3	65.1	72.4	78.1	76.1	71.4	67.5	65.3	64.6
30	60.4	65.5	73.4	77.4	75.1	70.4	66.3	66.5	61.8
31	58.8	63.8	70.7	75.8	76.2	71.6	65.6	67.5	62.8
32	56.9	61.7	69.4	74.4	71.3	67.3	61.7	60.7	56.4
33	55.0	58.5	66.4	70.7	68.0	63.8	57.1	55.8	55.0
34	55.0	57.6	64.1	67.9	65.3	61.5	55.3	55.0	55.0
35	55.0	55.7	61.1	64.2	62.0	57.2	55.0	55.0	55.0
36	55.0	55.0	56.8	60.3	58.1	55.1	55.0	55.0	55.0
37	55.0	55.0	55.0	56.9	55.7	55.0	55.0	55.0	55.0
38	55.0	55.0	55.6	55.9	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	70.4	75.5	83.4	86.2	83.7	79.9	75.4	75.3	71.7
D	79.0	82.8	88.8	90.7	88.0	84.3	80.0	80.0	77.4
OASPL	91.5	94.2	96.7	95.0	90.6	88.0	85.4	84.2	82.4
PNL	87.5	90.2	96.6	98.5	95.4	91.5	88.3	88.0	86.2
PNLT	87.5	90.2	96.6	98.5	96.4	91.5	88.3	89.3	87.4

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
Without truck

OCTOBER 28 1976

EVENT 80 105 KT. FLY BY MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.0	5.5
17	79.0	80.4	79.8	77.0	76.5	77.1	82.7	84.5	74.3	74.8
18	82.3	84.8	88.1	88.4	87.0	88.0	87.7	78.5	72.2	70.5
19	73.7	76.7	78.5	78.1	76.1	75.8	74.9	74.5	75.5	73.1
20	71.8	75.0	75.6	76.6	73.6	70.6	68.9	72.4	73.4	74.5
21	76.1	78.0	79.9	77.8	69.3	68.1	68.4	64.8	63.7	65.8
22	68.0	68.5	69.0	66.0	72.1	73.9	76.9	74.5	66.1	60.2
23	65.7	62.3	60.9	72.2	79.4	80.1	80.5	80.6	71.5	62.6
24	59.0	59.6	67.5	79.2	82.2	82.4	83.5	80.4	74.8	67.0
25	56.0	63.8	71.8	79.1	81.4	79.1	76.8	75.4	75.4	70.6
26	62.3	67.4	74.4	76.9	76.7	79.8	81.1	79.5	70.6	70.8
27	64.6	67.1	68.6	73.1	82.0	83.5	82.5	80.5	73.6	66.8
28	63.4	62.8	67.1	76.5	76.7	77.6	79.6	76.1	72.9	67.3
29	59.9	63.8	71.3	75.3	77.4	78.0	77.8	75.3	71.7	67.3
30	60.5	66.1	68.2	76.1	77.1	78.5	77.8	74.0	68.6	64.3
31	58.1	61.8	67.4	73.3	76.2	77.0	76.5	73.4	68.1	62.5
32	57.0	60.2	65.2	71.1	73.6	74.0	72.5	69.8	64.0	60.1
33	55.0	57.4	61.6	67.0	70.4	71.0	69.8	66.1	61.2	55.6
34	55.0	55.8	60.1	64.6	66.1	66.9	65.7	61.5	57.0	55.0
35	55.0	55.0	56.2	60.1	62.3	63.2	62.1	57.1	55.0	55.0
36	55.0	55.0	55.0	56.4	57.9	58.7	58.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.8	56.3	56.0	55.0	55.0	55.0
38	55.0	55.0	55.4	55.8	55.9	55.1	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	69.6	72.9	77.8	83.7	85.8	86.7	86.5	83.6	78.8	73.3
D	78.3	80.2	83.7	87.9	90.0	90.3	90.4	87.9	82.8	79.0
OASPL	88.1	89.8	91.4	91.4	92.1	92.7	93.2	91.3	87.1	83.4
PNL	86.3	88.7	91.9	94.9	97.3	98.1	97.7	95.4	90.3	87.1
PNLT	86.3	89.7	93.2	94.9	97.3	98.1	97.7	95.4	90.3	87.1

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

without truck

OCTOBER 28 1976

EVENT 81 105 KT. FLY BY MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.0	6.5
17	78.9	79.4	78.0	75.0	78.8	81.3	84.6	83.2	72.7	76.6
18	83.4	87.0	89.4	88.5	88.4	88.7	85.3	74.6	71.7	69.5
19	74.5	77.3	77.6	76.9	74.9	74.2	72.6	73.9	72.3	74.3
20	72.5	74.6	75.6	74.4	72.0	69.8	67.5	73.6	73.6	73.4
21	79.7	83.6	82.9	74.1	68.9	69.7	68.3	64.8	63.5	66.5
22	69.7	72.0	70.0	67.1	74.8	76.5	78.8	71.6	61.4	62.9
23	68.1	66.3	64.2	75.4	80.3	80.6	80.2	78.5	70.3	56.9
24	61.9	62.7	74.8	79.5	82.7	83.2	82.1	78.6	72.5	61.0
25	57.3	66.9	74.7	79.7	78.0	76.5	74.7	75.2	74.7	67.1
26	64.4	70.5	78.3	76.3	79.3	82.2	82.4	76.7	69.2	70.0
27	66.2	69.9	73.6	78.1	82.6	83.2	81.0	80.9	73.9	67.7
28	65.3	67.4	73.1	77.8	78.5	80.1	79.5	75.9	72.7	63.9
29	62.5	66.2	75.3	77.3	78.6	79.6	77.0	76.2	70.8	67.4
30	62.7	70.1	72.8	76.2	79.1	79.6	75.9	74.4	68.7	62.6
31	62.1	64.1	70.7	74.5	77.3	78.7	76.3	73.8	68.6	63.3
32	58.6	63.4	68.9	72.5	74.1	75.0	72.5	69.5	64.4	60.3
33	56.3	59.4	65.6	68.9	70.7	71.6	68.9	65.6	60.9	56.1
34	55.1	58.6	64.4	65.1	67.1	67.6	64.8	61.8	56.8	55.0
35	55.0	55.6	59.2	60.6	63.6	63.9	60.6	56.1	55.0	55.0
36	55.0	55.0	55.4	56.8	58.9	59.2	56.6	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	56.5	56.5	55.2	55.0	55.0	55.0
38	55.0	55.0	55.4	57.0	55.2	55.2	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	71.8	76.2	81.7	84.3	86.6	87.7	86.0	83.5	78.4	73.0
D	80.0	83.0	86.8	88.4	90.5	91.4	89.9	87.0	82.4	78.1
OASPL	89.1	91.2	92.0	91.4	92.6	93.1	92.3	89.6	85.2	82.0
PNL	88.4	91.6	94.3	95.5	97.9	98.6	97.3	95.1	89.8	86.4
PNLT	88.4	93.2	94.3	95.5	97.9	98.6	97.3	95.1	89.8	87.8

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

Without truck

OCTOBER 28 1976

EVENT 80 105 KT. FLY BY MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.0	-3.0	-1.0	0	.5	1.0	3.0	5.0	7.0
17	82.6	84.6	79.6	75.5	78.0	80.1	82.4	81.5	78.6	77.0
18	81.4	84.3	87.9	88.5	88.1	87.6	86.3	73.9	70.1	69.1
19	71.6	73.8	76.9	74.8	72.8	73.0	74.8	72.9	72.8	72.3
20	67.9	72.8	73.8	75.2	73.8	73.1	71.8	76.2	76.0	72.6
21	74.4	77.7	73.9	70.2	65.9	65.0	65.0	65.9	64.7	67.5
22	66.4	67.3	66.9	67.1	72.0	73.2	74.2	65.1	58.7	67.0
23	58.7	65.5	63.1	74.7	76.4	77.1	77.2	72.6	60.2	59.1
24	59.4	60.6	71.7	78.7	80.2	80.6	80.3	76.8	68.1	57.9
25	58.3	65.7	76.7	79.1	78.6	77.7	76.4	75.2	70.3	64.5
26	60.4	72.8	78.7	74.4	76.3	77.8	77.4	70.0	69.3	69.1
27	62.8	74.3	74.2	76.8	79.9	80.2	79.0	75.8	62.6	66.2
28	63.0	70.1	72.0	75.7	74.8	74.8	74.2	71.2	66.4	60.0
29	60.2	66.0	74.6	75.2	76.2	75.7	74.6	72.2	63.3	62.8
30	59.5	70.5	73.4	73.3	75.8	75.6	74.5	69.3	62.6	61.6
31	59.6	65.4	71.1	71.5	73.3	73.5	72.4	68.6	60.4	60.9
32	55.9	63.4	69.8	69.3	70.9	70.9	69.8	65.6	58.2	57.7
33	55.0	58.2	65.6	66.9	69.3	68.8	67.8	62.1	55.1	55.0
34	55.0	56.2	63.2	63.2	64.2	63.6	62.3	57.4	55.0	55.0
35	55.0	55.3	59.1	59.2	60.7	60.3	58.9	55.0	55.0	55.0
36	55.0	55.0	55.3	55.8	56.5	56.1	55.2	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.4	55.3	55.1	55.0	55.0	55.0
38	55.0	55.0	55.3	55.5	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	68.9	77.2	81.8	82.3	83.8	83.9	82.8	79.0	72.1	70.6
D	78.0	82.5	86.2	86.9	88.4	88.4	87.2	83.3	78.0	76.6
OASPL	89.8	93.1	94.7	94.3	93.4	92.9	91.9	86.9	82.7	80.8
PNL	85.5	90.2	93.9	94.2	95.5	95.6	94.9	91.4	86.2	85.5
PNLT	85.5	91.8	93.9	94.2	95.5	95.6	94.9	91.4	87.3	85.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

without truck

OCTOBER 28 1976

EVENT 81 105 KT. FLY BY MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.5	-5.5	-3.5	-1.5	0	.5	2.5	4.5	6.5	7.5
17	80.1	81.1	78.2	78.0	79.9	81.2	82.5	78.9	79.3	78.3
18	80.7	83.1	88.1	88.9	87.9	86.7	74.7	72.7	70.3	68.9
19	70.1	72.9	75.4	75.0	72.9	71.4	75.8	74.7	75.5	72.0
20	67.5	70.9	73.2	74.0	68.5	68.2	75.7	76.6	73.7	70.8
21	74.1	77.2	73.2	67.8	65.6	65.6	64.9	65.9	67.3	66.0
22	64.8	65.3	64.2	67.8	72.5	73.0	69.2	60.4	66.1	66.7
23	58.6	59.9	61.1	75.7	76.8	76.0	74.9	65.5	58.2	59.8
24	55.7	58.9	67.3	77.4	78.0	77.5	77.6	70.9	59.1	55.7
25	56.6	61.5	73.3	77.0	72.9	71.8	75.4	72.1	65.6	57.5
26	56.2	64.1	76.3	73.1	77.1	76.6	72.0	69.6	69.1	64.2
27	57.1	63.4	73.9	77.8	78.5	77.6	78.0	66.1	68.1	66.3
28	56.8	61.2	69.8	73.2	74.6	74.6	72.4	69.3	63.9	65.3
29	55.6	56.6	71.7	74.9	73.6	73.4	73.5	66.1	66.2	59.5
30	55.0	61.0	71.6	73.5	73.7	73.1	70.6	65.9	63.7	61.1
31	56.3	57.7	68.5	71.0	72.7	71.9	70.2	65.6	63.6	59.7
32	55.0	55.7	66.5	69.7	69.9	68.7	66.4	61.8	59.1	56.7
33	55.0	55.0	63.4	66.5	67.1	66.4	63.6	57.3	55.8	55.0
34	55.0	55.0	63.7	62.8	63.1	62.2	58.2	55.0	55.0	55.0
35	55.0	55.0	58.9	59.6	59.3	58.2	55.0	55.0	55.0	55.0
36	55.0	55.0	55.6	55.7	55.8	55.3	55.0	55.0	55.0	55.0
37	55.0	55.0	55.0	56.0	55.4	55.2	55.0	55.0	55.0	55.0
38	55.0	55.0	57.1	57.6	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	65.1	69.1	79.4	81.9	82.8	82.2	80.8	74.7	72.6	69.5
D	76.6	78.9	84.3	86.6	86.9	86.2	84.9	79.7	77.6	75.8
OASPL	89.0	91.5	93.2	94.0	93.1	91.7	87.8	83.8	82.7	81.0
PNL	84.0	86.5	92.3	94.1	94.3	93.6	92.8	87.9	86.3	84.2
PNLT	84.0	87.8	92.3	94.1	94.3	93.6	92.8	89.0	86.3	84.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 74 6 DEGREE APPROACH MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5	6.0	6.5
17	70.2	73.5	74.1	75.4	77.6	76.1	79.3	81.3	84.9	84.2
18	83.3	87.0	87.5	88.0	86.3	83.4	82.9	77.8	77.8	77.2
19	68.6	73.4	74.1	75.9	71.5	73.9	75.6	70.6	75.6	75.6
20	69.4	72.0	75.8	72.0	80.8	83.9	84.9	81.5	75.1	76.1
21	78.3	81.5	79.8	73.5	87.8	90.3	89.5	83.9	69.1	68.8
22	64.5	67.1	65.8	84.4	90.3	87.4	85.5	84.0	75.4	70.1
23	70.5	69.6	74.5	89.9	89.8	83.3	79.9	82.2	78.4	75.4
24	62.8	74.2	80.4	86.3	83.5	76.8	79.1	77.1	78.6	75.5
25	71.5	75.5	79.8	81.2	81.0	81.7	79.8	79.3	76.9	74.7
26	72.4	76.9	75.4	76.0	82.5	78.7	79.1	77.0	69.4	65.8
27	71.6	75.0	69.0	77.6	77.1	78.1	77.6	75.1	72.6	68.8
28	63.9	65.9	71.4	72.6	74.6	75.0	75.5	72.9	68.4	68.2
29	63.3	69.0	67.9	73.5	74.2	75.2	74.8	72.9	68.6	67.0
30	62.2	65.3	68.9	71.3	73.3	74.8	73.8	70.8	66.2	65.4
31	58.9	64.7	66.0	69.1	71.6	72.3	72.1	73.0	67.7	67.5
32	57.1	63.5	64.7	70.8	71.2	71.4	70.8	68.4	63.6	63.2
33	55.6	59.0	61.4	65.9	67.2	68.2	68.7	65.4	60.8	60.5
34	55.0	55.3	58.5	63.5	64.7	66.7	66.3	63.7	57.3	56.7
35	55.0	55.0	56.3	60.7	62.8	63.8	64.1	60.5	55.0	55.0
36	55.0	55.0	55.0	56.9	59.6	61.2	62.0	58.9	55.0	55.0
37	55.0	55.0	57.7	64.6	59.1	60.5	61.5	56.9	55.0	55.0
38	55.0	55.0	55.0	58.3	55.6	56.3	57.6	55.1	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.5	56.7	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	74.3	78.3	79.7	85.1	86.0	84.9	84.2	82.6	78.5	76.8
D	80.8	83.7	85.8	91.7	92.5	91.4	90.4	88.3	84.2	82.6
OASPL	89.8	93.5	94.9	97.6	98.9	96.6	95.5	93.6	90.4	89.3
PNL	88.1	91.8	93.3	99.0	100.1	98.8	98.4	95.6	92.0	90.2
PNLT	88.1	92.9	93.3	101.3	100.1	98.8	98.4	96.7	92.0	91.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

without truck

OCTOBER 28 1976

EVENT 76 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.5	-4.5	-3.5	-2.5	-1.5	-1.0	-.5	0	.5	1.5	4.5
17	80.4	80.6	80.8	80.8	78.3	76.6	76.2	76.1	75.5	77.9	77.8
18	85.6	86.7	88.2	89.4	90.1	89.4	88.0	86.0	84.3	80.8	70.2
19	74.0	74.9	76.2	76.3	75.1	73.7	71.0	68.3	68.0	68.3	69.5
20	70.6	70.9	72.4	73.1	69.8	69.9	73.6	76.1	79.0	80.9	66.6
21	81.5	81.2	81.6	78.5	79.5	83.1	86.9	87.9	88.4	86.2	66.2
22	68.5	68.1	68.0	68.9	76.9	79.3	81.1	82.0	82.3	79.5	73.0
23	68.0	64.1	73.1	81.0	87.3	88.8	89.0	87.6	84.9	75.9	72.2
24	67.3	77.8	80.1	83.0	83.2	81.5	79.7	76.5	75.6	76.1	71.9
25	71.5	78.7	81.7	83.0	79.5	77.9	80.1	81.4	81.6	79.8	67.2
26	69.6	75.9	79.1	79.6	81.1	82.4	82.7	81.6	80.9	79.6	73.1
27	66.1	71.8	73.7	81.2	82.4	81.3	80.7	80.9	81.2	78.9	70.2
28	59.4	66.9	75.1	80.2	78.5	78.5	79.0	79.4	79.8	78.7	69.6
29	60.9	69.4	71.2	77.7	77.4	76.9	78.0	78.8	79.3	77.9	68.8
30	60.8	66.4	73.3	77.4	76.6	76.2	77.0	78.0	79.0	77.8	67.8
31	59.6	66.6	69.4	74.1	74.7	74.9	75.7	76.4	77.5	77.5	70.4
32	57.8	66.2	68.7	74.9	75.7	74.4	75.1	75.8	76.1	78.7	65.2
33	56.2	62.6	65.5	68.3	69.9	70.3	71.9	73.0	73.2	71.5	61.1
34	55.0	58.1	61.8	65.1	67.7	68.2	68.3	68.9	69.1	67.9	58.0
35	55.0	55.4	59.3	62.2	65.0	65.5	65.7	65.8	66.0	65.8	55.3
36	55.0	55.0	56.2	58.0	60.4	61.2	61.5	62.4	62.9	62.3	55.0
37	55.0	55.0	55.0	55.5	58.1	58.4	58.2	60.3.	61.4	61.1	55.0
38	55.0	55.0	55.3	60.2	63.6	62.5	59.6	58.3	57.2	56.6	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.9	79.3	82.6	86.6	86.8	86.7	87.3	87.3	87.3	86.5	77.2
D	81.6	85.1	87.9	91.1	91.8	91.9	92.3	92.2	91.9	90.8	82.1
OASPL	92.7	93.9	96.0	98.0	99.4	99.4	98.6	96.9	95.3	92.9	87.0
PNL	89.5	92.5	95.3	97.8	99.3	99.8	100.2	99.8	99.2	99.0	89.4
PNLT	89.5	92.5	95.3	99.1	100.4	100.8	100.7	99.8	99.2	100.4	90.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 77 85 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.0	-4.5	-3.0	-1.5	0	1.5	3.0	4.5
17	78.0	79.1	78.3	73.5	73.4	79.6	77.4	80.3
18	84.9	87.0	88.5	87.6	83.2	78.5	69.6	70.7
19	72.7	73.6	74.2	71.4	65.7	65.9	65.4	69.7
20	68.5	69.6	69.1	68.6	78.2	79.0	73.7	71.9
21	80.0	80.1	73.6	83.0	88.1	82.1	72.6	62.3
22	66.6	65.9	70.3	80.0	81.0	77.0	76.1	72.5
23	66.6	73.3	80.9	88.8	84.8	71.8	73.7	72.2
24	70.6	80.6	82.0	82.9	75.6	74.3	70.6	74.6
25	73.1	80.6	80.9	78.4	83.3	79.2	75.4	69.3
26	72.1	79.0	76.8	84.2	80.8	77.6	74.8	72.3
27	69.4	74.2	80.9	80.9	80.6	77.8	73.3	71.9
28	62.4	74.8	79.3	78.2	78.5	76.4	72.0	69.0
29	65.7	72.2	75.3	77.5	78.6	76.0	72.3	69.5
30	62.6	72.0	74.7	76.9	77.7	75.6	71.1	68.0
31	62.0	69.1	72.7	75.5	76.5	75.0	73.7	69.5
32	59.5	66.7	70.8	74.7	74.9	71.6	68.3	65.5
33	57.2	63.0	67.5	71.0	72.4	69.1	65.3	61.0
34	55.3	59.6	64.8	68.2	68.1	66.3	61.8	57.4
35	55.0	56.5	61.4	65.3	65.3	63.0	58.3	55.1
36	55.0	55.0	56.6	60.7	61.6	59.4	56.4	55.0
37	55.0	55.0	55.8	59.7	60.7	58.5	55.5	55.0
38	55.0	55.0	59.1	61.2	57.0	55.7	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	74.6	82.1	84.7	86.9	86.7	83.9	80.9	77.7
D	81.8	87.1	89.4	92.2	91.6	87.8	85.0	82.5
OASPL	91.9	95.2	97.1	97.5	94.9	90.4	89.2	87.0
PNL	89.4	94.3	96.4	99.9	98.7	95.4	92.1	89.6
PNLT	90.5	94.3	97.1	100.5	98.7	95.4	93.5	89.6

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64

Without truck

OCTOBER 28 1976

EVENT 78 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.5	-3.5	-2.5	-1.5	-1.0	-.5	0	.5	1.5	2.5	3.0
17	83.9	82.5	80.6	76.9	75.3	74.9	74.8	75.7	80.9	80.7	77.5
18	87.2	88.3	89.5	89.6	89.0	88.1	86.5	84.7	80.5	72.9	70.2
19	76.0	75.6	75.4	74.2	72.4	69.7	67.6	67.7	66.3	66.0	67.1
20	72.8	72.9	70.9	68.1	69.4	73.9	77.0	80.2	80.8	77.6	76.1
21	82.2	83.2	80.0	82.2	85.6	88.1	88.2	88.7	85.7	75.6	74.1
22	69.4	69.4	68.8	76.5	79.7	81.1	82.0	81.7	79.7	77.6	77.2
23	66.6	77.6	81.4	89.9	92.0	91.8	89.8	85.1	74.6	73.7	75.3
24	73.5	82.6	84.3	87.6	87.2	84.6	79.8	75.1	74.9	71.6	72.0
25	76.2	84.7	85.0	79.5	80.5	82.2	82.7	81.4	77.7	76.5	75.3
26	74.0	82.6	81.9	82.1	83.5	83.1	81.4	78.8	76.0	75.6	76.6
27	68.4	74.6	81.9	83.4	81.2	79.1	79.0	79.0	76.7	75.4	74.0
28	62.9	77.8	81.0	81.1	80.3	79.2	77.3	77.1	75.9	73.1	71.7
29	65.4	72.6	78.4	78.9	77.7	77.3	77.0	77.4	76.7	73.8	72.5
30	62.0	75.2	77.9	78.9	78.2	77.2	77.7	78.1	76.2	73.2	71.7
31	62.5	71.5	75.1	75.3	74.9	75.2	75.5	75.5	75.9	73.8	72.5
32	61.1	69.0	72.5	73.9	74.3	75.3	75.5	75.0	73.0	70.4	69.0
33	58.0	64.5	68.8	70.5	70.6	71.6	71.8	71.8	70.4	67.4	65.7
34	55.7	61.1	65.3	68.2	68.6	69.0	69.1	69.0	67.4	63.8	62.1
35	55.0	58.0	62.6	65.0	65.2	65.5	65.9	66.0	64.8	61.0	58.7
36	55.0	55.4	57.6	60.3	60.7	61.5	62.0	62.0	60.9	58.2	56.7
37	55.0	55.0	55.8	57.6	58.0	58.8	59.7	60.6	60.0	57.1	56.1
38	55.0	55.4	62.2	65.1	63.7	61.2	59.1	57.8	56.3	55.1	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	76.3	84.9	87.3	88.2	88.2	87.9	86.9	86.0	84.5	81.8	80.9
D	83.8	89.8	91.7	93.5	93.9	93.5	92.4	91.3	89.0	86.1	85.4
OASPL	94.9	97.1	98.3	99.5	100.0	99.7	98.5	96.5	91.5	88.6	88.5
PNL	91.2	97.2	98.8	100.8	101.7	101.6	100.5	98.7	96.5	93.5	92.8
PNLT	91.2	98.6	100.0	102.2	102.9	102.3	100.5	98.7	96.5	93.5	92.8

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 79 95 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.5	-2.5	-1.5	-.5	0	.5	1.5	2.5	3.5	4.0
17	81.3	79.7	77.4	75.5	75.5	74.9	77.4	80.7	74.6	75.5
18	87.7	88.6	89.1	88.3	87.3	85.4	81.5	76.2	69.2	69.9
19	75.7	75.6	74.2	70.9	68.9	67.1	66.8	65.3	66.4	67.8
20	72.6	71.2	69.3	71.4	75.7	77.8	81.1	80.0	76.7	67.7
21	83.2	82.0	77.7	86.4	89.0	89.2	87.1	79.6	72.3	67.4
22	69.8	68.6	72.2	80.5	82.0	82.3	80.3	80.8	80.5	76.3
23	69.8	77.5	85.6	92.3	92.1	90.1	79.3	74.4	75.0	73.5
24	76.9	80.6	83.7	86.4	84.6	79.6	77.0	75.5	71.2	72.8
25	79.6	82.7	81.2	83.0	84.5	84.4	80.1	79.3	74.2	70.3
26	76.8	78.8	79.5	84.9	84.8	83.0	79.3	77.5	75.5	74.8
27	70.4	73.0	81.3	81.5	81.1	81.3	79.8	78.2	73.3	70.3
28	66.7	75.3	78.6	80.2	79.9	79.1	78.4	76.3	71.3	71.0
29	66.8	70.7	76.5	79.4	79.3	78.7	78.4	76.7	71.3	70.5
30	64.5	71.1	76.2	79.1	79.2	78.3	76.9	74.9	70.7	69.5
31	64.2	69.3	74.1	77.3	77.3	77.3	77.9	77.4	74.6	72.2
32	62.5	67.7	71.6	76.0	76.8	76.8	75.6	71.8	67.7	66.7
33	59.0	63.6	68.0	72.0	73.2	73.2	72.3	69.0	64.3	62.8
34	57.1	61.2	66.2	69.3	70.1	70.2	69.0	66.2	62.6	60.5
35	55.0	59.3	63.4	66.2	66.7	66.8	66.1	63.1	58.6	56.1
36	55.0	55.8	59.3	62.1	62.4	62.7	62.6	59.3	55.6	55.2
37	55.0	55.0	56.2	58.0	58.7	59.8	60.4	57.8	56.3	55.9
38	55.0	56.6	63.4	62.5	61.0	59.7	56.5	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	79.1	82.4	86.0	89.3	89.2	88.2	86.5	84.9	80.8	79.2
D	85.2	87.4	90.9	94.4	94.4	93.5	91.0	89.0	85.2	83.3
OASPL	94.6	96.0	97.8	99.4	99.2	97.8	93.4	90.3	88.1	86.7
PNL	92.7	95.6	98.0	102.2	102.3	101.3	98.2	96.0	92.6	90.8
PNLT	92.7	96.8	99.3	103.2	103.0	101.3	98.2	97.4	94.4	92.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 80 105 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.5	-2.5	-1.5	-.5	0	.5	1.5	2.5	3.5	4.0
17	85.7	84.5	81.5	76.6	75.5	76.0	81.3	80.2	78.0	80.1
18	86.7	89.7	90.9	89.0	86.9	84.7	79.7	71.6	70.7	70.4
19	77.7	78.2	77.4	72.2	70.2	69.7	68.3	68.0	69.7	70.6
20	74.0	71.2	69.7	75.6	78.4	81.4	82.5	78.9	70.0	74.5
21	79.7	82.0	80.1	88.1	88.7	88.6	85.2	77.1	68.3	64.0
22	69.2	70.2	74.5	81.6	82.3	81.9	79.6	80.8	74.5	72.0
23	68.7	79.7	86.8	92.3	91.2	86.8	74.6	76.7	75.1	72.1
24	75.9	82.3	83.6	84.3	82.1	77.3	77.0	73.2	75.4	76.8
25	77.3	83.6	80.3	83.1	83.6	82.5	79.6	76.6	70.7	71.6
26	74.6	80.3	78.3	83.7	83.5	80.8	76.5	75.7	75.2	73.3
27	66.7	74.8	78.9	80.3	81.0	80.7	77.4	75.0	72.4	72.1
28	65.3	75.0	76.0	78.8	79.0	78.5	76.8	73.7	71.8	70.7
29	65.2	71.5	74.8	78.2	78.4	77.6	76.9	74.0	70.8	70.1
30	63.7	72.3	75.5	77.9	78.2	77.4	76.0	73.8	71.2	70.0
31	62.1	70.9	73.7	76.7	76.8	76.0	78.0	76.4	74.8	73.5
32	60.5	66.6	72.4	76.3	76.7	75.6	72.9	70.6	68.7	67.3
33	58.0	64.6	68.9	73.3	73.5	72.7	70.2	67.4	63.5	61.8
34	56.6	61.3	66.5	70.3	70.3	69.4	67.4	65.6	61.5	59.4
35	55.3	59.0	63.1	67.3	67.7	66.8	64.6	61.3	56.6	55.6
36	55.0	55.9	59.3	63.2	63.8	63.1	61.4	58.6	55.4	55.1
37	55.0	55.0	56.3	59.9	61.4	61.9	60.4	59.0	57.8	56.2
38	55.0	58.0	62.9	62.6	61.1	59.3	56.1	55.1	55.0	55.0
39	55.0	55.0	55.0	55.4	55.8	55.6	55.1	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.3	55.3	55.0	55.0	55.0	55.0
A	77.0	83.4	85.2	88.5	88.4	87.0	84.7	82.7	80.7	79.6
D	84.5	89.2	91.1	94.2	93.8	92.2	89.5	87.3	84.8	83.9
OASPL	95.6	98.6	99.8	99.9	98.7	96.4	92.3	90.0	87.5	87.0
PNL	91.4	96.7	98.4	102.3	101.9	99.7	96.9	94.7	92.2	91.3
PNLT	91.4	97.2	99.6	103.1	101.9	99.7	98.1	96.1	93.8	92.9

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 81 105 KT. FLY BY MIC. CENTERLINE(HARD)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.0	-4.0	-3.0	-2.0	-1.5	-1.0	0	1.0	2.0	2.5
17	85.0	84.3	81.7	78.5	76.8	76.0	78.2	80.2	76.4	76.5
18	87.5	87.8	89.2	89.4	88.1	84.9	80.0	74.6	68.5	68.8
19	77.0	77.3	76.9	73.9	71.5	68.3	66.6	67.5	64.9	67.3
20	73.1	72.6	70.8	70.8	74.1	75.7	81.0	80.9	75.7	68.2
21	81.6	82.0	79.1	87.4	89.5	89.0	85.4	78.9	71.7	68.3
22	70.0	70.7	71.5	80.9	82.2	82.4	78.8	80.7	80.5	76.1
23	70.1	81.5	86.4	92.2	92.3	90.1	79.3	74.8	75.7	74.8
24	76.1	82.5	83.4	87.0	86.0	81.1	78.0	77.0	70.7	72.8
25	77.8	83.2	81.6	81.6	84.9	84.9	80.9	78.5	73.6	71.8
26	76.5	81.1	79.4	84.6	85.2	83.7	80.2	76.6	75.5	75.8
27	69.5	75.1	81.3	82.2	82.5	81.9	79.7	76.6	71.9	72.1
28	65.2	77.0	78.8	80.0	80.3	79.6	78.7	74.8	71.2	71.7
29	65.9	72.4	76.4	79.3	79.9	79.8	78.2	74.5	70.4	70.5
30	64.1	72.4	74.1	77.9	79.6	80.1	78.2	74.5	70.4	70.2
31	63.1	70.1	72.0	76.3	77.4	77.4	77.3	76.7	73.6	72.8
32	61.7	67.2	69.3	74.4	76.4	76.9	74.7	70.8	67.7	67.4
33	58.1	63.5	65.4	71.4	73.4	73.5	71.9	67.7	63.5	62.7
34	56.8	60.6	62.7	68.5	69.9	70.3	69.4	65.3	61.1	59.9
35	55.0	58.5	60.5	65.7	67.3	67.6	66.5	61.8	56.9	55.2
36	55.0	55.1	57.0	61.1	62.8	63.2	61.9	59.0	55.6	55.0
37	55.0	55.0	55.0	57.4	59.0	59.9	60.2	59.0	56.4	55.3
38	55.0	55.5	61.1	62.3	61.0	59.2	56.2	55.3	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	78.3	84.0	85.5	88.8	89.6	88.7	86.3	83.6	80.2	79.7
D	84.9	89.2	90.6	94.1	94.7	93.7	90.8	87.9	85.0	84.1
OASPL	94.9	96.2	98.2	100.6	100.2	98.4	92.8	89.9	87.8	86.8
PNL	92.0	96.5	97.9	102.1	102.7	101.5	97.9	95.4	91.9	91.4
PNLT	92.0	97.6	98.9	103.1	103.4	101.5	97.9	96.7	93.4	92.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With Truck OCTOBER 28 1976

EVENT 35, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.6	76.4	68.4	72.1	2.1
15	75.5	77.6	72.7	75.3	1.4
16	80.5	84.2	76.0	80.1	1.8
17	81.3	84.0	77.8	81.0	1.6
18	82.6	85.8	79.2	82.3	1.7
19	84.3	86.6	81.8	84.1	1.5
20	86.7	90.1	83.6	86.3	1.9
21	87.9	91.7	82.3	87.3	2.4
22	87.9	91.2	81.1	87.1	2.9
23	89.7	95.4	82.5	88.5	3.3
24	89.5	93.8	82.0	88.5	3.2
25	87.6	90.8	78.6	86.6	3.3
26	86.1	89.3	78.0	85.1	3.2
27	86.5	90.2	78.6	85.6	3.0
28	85.1	90.0	79.7	84.5	2.4
29	82.3	84.9	76.7	81.8	2.3
30	80.0	82.3	74.6	79.7	2.0
31	77.9	80.1	71.9	77.5	2.0
32	76.2	78.4	70.9	75.9	1.9
33	73.0	75.2	67.8	72.6	1.9
34	69.5	71.6	65.0	69.3	1.7
35	66.3	68.3	62.7	66.1	1.6
36	62.6	64.2	59.2	62.4	1.5
37	61.1	63.0	58.0	61.0	1.3
38	61.4	64.3	58.3	61.1	1.6
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	91.3	94.7	85.1	90.8	2.4
DBD	96.1	99.5	90.0	95.6	2.4
OASPL	98.2	101.5	92.7	97.7	2.3
PNL	103.3	106.5	97.2	102.8	2.2
PNLT	103.7	107.1	97.2	103.1	2.4

270°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
with truck OCTOBER 28 1976

EVENT 36, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	73.6	77.4	67.9	72.8	2.6
15	74.0	76.8	69.2	73.7	1.7
16	79.7	82.9	73.7	79.0	2.5
17	88.2	90.2	85.2	88.1	1.3
18	91.0	92.7	88.5	90.8	1.1
19	80.2	82.7	76.5	79.9	1.8
20	83.6	86.9	79.5	83.3	1.7
21	84.5	87.7	79.9	84.1	2.0
22	83.7	89.8	79.0	82.7	2.8
23	85.4	93.1	79.0	83.6	3.4
24	86.1	93.4	78.6	84.6	3.2
25	85.7	92.9	77.9	84.3	3.2
26	84.4	89.6	78.2	83.6	2.5
27	84.9	89.7	79.2	84.2	2.6
28	83.0	87.4	79.4	82.5	2.1
29	81.0	83.5	77.9	80.7	1.4
30	79.6	82.1	76.2	79.4	1.4
31	78.2	80.4	75.8	78.1	1.3
32	76.6	79.1	74.4	76.4	1.2
33	74.7	78.2	71.7	74.4	1.7
34	71.8	75.2	68.3	71.4	1.8
35	68.4	72.1	65.3	68.1	1.7
36	64.2	67.5	61.5	63.9	1.6
37	59.3	62.0	56.9	59.1	1.3
38	55.9	57.6	55.0	55.9	.7
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	89.8	94.3	86.6	89.4	1.8
DBD	94.5	99.4	91.3	94.0	1.8
OASPL	96.9	101.1	93.8	96.5	1.6
PNL	102.0	106.0	98.8	101.6	1.7
PNLT	102.0	106.0	98.8	101.6	1.7

225°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With truck OCTOBER 28 1976

EVENT 37, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.8	79.5	69.1	74.0	2.7
15	77.4	79.9	72.8	77.0	1.9
16	84.3	87.3	79.3	83.9	1.8
17	88.5	91.0	85.2	88.2	1.9
18	90.6	93.3	86.6	90.3	1.7
19	87.4	92.6	82.2	86.6	2.7
20	90.6	95.9	85.0	89.7	2.8
21	91.7	96.1	86.5	90.9	2.5
22	90.5	96.2	84.6	89.5	2.9
23	91.7	97.7	84.4	90.4	3.2
24	92.0	96.4	86.0	91.2	2.7
25	91.2	94.8	85.9	90.6	2.4
26	89.5	93.4	83.8	88.8	2.5
27	88.6	92.4	84.3	88.0	2.2
28	86.7	91.7	82.1	85.9	2.6
29	84.1	89.2	80.2	83.3	2.5
30	82.3	86.3	78.4	81.6	2.4
31	80.4	83.2	77.5	80.0	1.8
32	78.9	81.7	76.1	78.6	1.7
33	75.6	78.0	72.5	75.3	1.4
34	72.6	75.3	69.0	72.3	1.8
35	70.0	72.3	66.6	69.7	1.7
36	66.4	68.6	62.9	66.1	1.6
37	61.5	63.5	58.2	61.3	1.5
38	56.8	58.5	55.0	56.7	1.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	93.7	97.5	90.3	93.2	2.1
DBD	98.8	102.5	95.0	98.3	2.1
OASPL	101.3	105.3	97.3	100.8	2.1
PNL	106.2	109.8	102.3	105.7	2.0
PNLT	106.2	109.8	102.3	105.7	2.0

180°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 with truck OCTOBER 28 1976

EVENT 38, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.1	79.5	72.5	74.9	1.4
15	81.7	84.5	77.7	81.2	2.1
16	88.6	92.0	84.4	88.1	2.5
17	90.7	94.5	88.0	90.3	1.8
18	91.3	93.6	88.7	91.1	1.4
19	93.0	97.1	88.2	92.3	2.6
20	94.5	98.8	89.1	93.7	2.6
21	95.1	99.9	89.2	94.3	2.6
22	95.3	100.8	89.2	94.0	3.2
23	95.9	101.7	88.0	94.4	3.5
24	96.2	102.3	90.9	95.0	3.1
25	94.6	99.6	86.8	93.3	3.5
26	91.6	95.5	85.1	90.8	2.8
27	91.6	95.9	85.8	90.8	2.7
28	89.5	93.7	84.8	88.8	2.6
29	87.3	91.5	82.5	86.6	2.5
30	85.0	87.9	81.9	84.6	1.9
31	83.7	87.7	80.1	83.2	2.1
32	81.8	85.9	77.7	81.3	2.1
33	79.1	82.7	75.8	78.6	2.0
34	75.6	79.1	72.0	75.1	2.2
35	72.1	75.2	69.0	71.7	1.8
36	68.6	71.4	66.0	68.3	1.6
37	65.3	66.4	65.0	65.3	.4
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	97.0	101.5	92.3	96.2	2.6
DBD	102.2	106.7	97.7	101.4	2.6
OASPL	104.8	109.6	100.4	104.0	2.6
PNL	109.7	114.3	105.6	109.0	2.5
PNLT	109.7	114.3	105.6	109.0	2.5

135°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 with truck OCTOBER 28 1976

EVENT 39, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	73.6	77.9	68.1	72.9	2.7
15	77.2	80.4	71.9	76.6	2.2
16	82.3	85.2	76.1	81.6	2.7
17	84.5	88.0	80.9	84.1	1.9
18	86.1	89.4	83.0	85.7	1.9
19	86.6	89.6	82.1	86.3	1.8
20	88.6	91.7	83.5	88.3	1.9
21	89.8	92.4	84.8	89.3	2.1
22	89.5	92.9	85.0	89.0	2.0
23	89.3	92.3	84.6	88.9	2.1
24	90.4	93.3	85.5	89.8	2.2
25	89.5	93.1	84.3	89.0	2.2
26	87.5	91.1	83.9	87.0	2.1
27	87.2	91.0	82.8	86.7	2.1
28	85.6	89.7	82.3	85.1	2.0
29	83.0	86.9	79.9	82.6	1.9
30	80.2	83.6	76.5	79.9	1.7
31	78.7	81.3	75.2	78.4	1.7
32	77.2	79.8	72.9	76.8	1.9
33	74.3	76.7	70.2	74.0	1.6
34	71.4	75.2	67.0	71.1	1.9
35	68.3	70.9	65.1	68.0	1.6
36	65.7	67.5	65.0	65.6	.7
37	65.0	65.2	65.0	65.0	.0
38	65.0	65.1	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	92.3	95.5	89.1	92.0	1.7
DBD	97.4	100.3	94.1	97.1	1.6
OASPL	99.5	102.3	95.6	99.2	1.6
PNL	104.8	107.5	101.1	104.5	1.6
PNLT	104.8	107.5	101.1	104.5	1.6

90°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With truck OCTOBER 28 1976

EVENT 40, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.6	76.7	68.8	72.0	2.2
15	75.3	78.3	71.8	75.1	1.6
16	80.7	83.5	77.3	80.3	1.8
17	79.8	82.1	76.0	79.5	1.5
18	80.8	83.5	78.5	80.6	1.4
19	82.1	85.4	80.0	81.9	1.2
20	84.6	86.9	82.0	84.5	1.1
21	83.9	85.2	82.6	83.9	.6
22	81.5	84.6	77.4	81.2	1.5
23	81.8	84.3	78.1	81.5	1.7
24	83.3	86.6	79.6	82.9	2.0
25	83.4	87.3	79.1	82.9	2.0
26	81.9	83.8	78.5	81.7	1.4
27	82.1	84.4	77.1	81.7	1.8
28	80.5	82.5	75.6	80.2	1.7
29	79.0	80.1	74.5	78.7	1.5
30	77.4	79.3	72.6	77.1	1.5
31	75.4	77.0	71.2	75.2	1.5
32	74.0	75.8	70.2	73.8	1.4
33	71.7	74.1	69.1	71.5	1.4
34	70.7	74.9	68.0	70.4	1.7
35	67.7	70.6	65.5	67.5	1.2
36	65.4	67.0	65.0	65.3	.6
37	69.7	73.1	66.3	69.5	1.6
38	70.2	73.7	65.2	69.7	2.1
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	87.6	89.1	83.9	87.4	1.2
DBD	93.3	94.5	91.3	93.2	.8
OASPL	94.6	95.8	93.2	94.5	.7
PNL	100.5	102.0	98.0	100.3	1.0
PNLT	100.9	103.2	98.0	100.8	1.2

45°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 with truck OCTOBER 28 1976

EVENT 41, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.6	78.0	66.0	71.7	2.7
15	74.4	77.4	69.9	74.1	1.8
16	76.8	79.3	72.9	76.5	1.5
17	76.8	78.7	74.6	76.7	1.0
18	77.2	78.8	74.2	77.0	1.0
19	78.7	80.1	76.1	78.6	1.0
20	80.2	82.2	77.9	80.1	1.0
21	79.8	81.7	77.1	79.6	1.0
22	79.1	82.2	76.6	78.8	1.6
23	80.2	83.4	76.6	79.8	1.8
24	81.1	83.9	77.2	80.8	1.7
25	80.5	83.6	75.0	79.9	2.3
26	78.4	81.5	74.0	78.0	2.0
27	77.8	80.6	74.9	77.5	1.5
28	76.0	78.7	73.1	75.7	1.5
29	74.0	77.7	71.5	73.7	1.5
30	72.8	73.6	69.0	72.1	2.2
31	71.3	74.0	67.5	70.6	2.2
32	70.1	72.0	66.1	69.7	1.8
33	68.5	70.4	65.7	68.3	1.4
34	66.9	70.1	63.8	66.6	1.5
35	66.0	68.4	63.2	65.8	1.4
36	62.6	64.8	60.2	62.5	1.2
37	68.0	70.3	65.8	67.8	1.3
38	69.4	72.7	66.3	69.1	1.6
39	55.0	55.3	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	84.0	87.1	81.8	83.8	1.3
DBD	89.6	91.7	87.7	89.5	1.0
OASPL	91.3	92.7	90.1	91.3	.7
PNL	97.1	99.1	95.0	97.0	1.0
PNLT	98.6	100.7	96.4	98.5	1.1

0°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 with truck OCTOBER 28 1976

EVENT 42, 315, DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	71.8	75.7	67.2	71.4	2.0
15	74.9	76.7	72.4	74.8	1.0
16	81.6	83.8	79.5	81.5	1.2
17	80.6	82.5	78.0	80.4	1.2
18	83.9	85.8	81.7	83.8	.9
19	82.8	86.5	79.9	82.5	1.7
20	84.6	86.9	81.3	84.3	1.6
21	84.2	86.6	81.0	84.0	1.3
22	81.9	84.8	78.3	81.6	1.4
23	81.8	86.2	77.4	81.3	2.0
24	83.4	87.6	77.8	83.0	2.0
25	84.3	89.1	79.2	83.6	2.4
26	82.8	86.3	78.0	82.4	1.9
27	83.1	86.1	77.9	82.8	1.8
28	82.0	84.2	78.2	81.8	1.3
29	81.3	83.4	77.5	81.1	1.4
30	79.9	82.2	77.4	79.8	1.2
31	77.3	79.0	75.1	77.2	.9
32	75.8	77.1	73.4	75.7	1.0
33	75.7	78.4	72.7	75.4	1.5
34	72.1	74.4	68.7	71.9	1.4
35	68.7	70.3	66.3	68.6	1.0
36	66.9	68.9	64.9	66.8	1.2
37	72.7	74.8	70.6	72.6	1.2
38	72.1	74.6	69.3	71.9	1.4
39	57.0	58.5	55.4	56.9	.9
40	55.0	55.0	55.0	55.0	.0
DBA	89.3	91.7	85.8	89.1	1.3
DBD	94.0	96.4	90.9	93.9	1.2
OASPL	94.6	96.9	92.0	94.5	1.2
PNL	101.6	104.1	98.6	101.5	1.3
PNLT	102.9	105.0	99.8	102.7	1.3

315° (Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 with truck OCTOBER 28 1976

EVENT 35, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	71.7	75.2	68.5	71.5	1.4
15	74.2	77.5	71.6	74.1	1.2
16	80.0	84.6	77.3	79.7	1.6
17	81.2	83.4	78.1	81.0	1.5
18	84.2	86.7	81.6	83.9	1.5
19	82.5	85.1	79.4	82.3	1.2
20	83.2	84.8	79.8	83.0	1.4
21	81.8	83.9	78.3	81.6	1.5
22	76.3	78.5	73.3	76.1	1.2
23	74.6	76.9	72.7	74.5	1.1
24	73.6	76.4	71.3	73.4	1.4
25	72.0	74.1	69.5	71.7	1.4
26	73.0	76.6	69.9	72.7	1.7
27	72.7	75.3	69.8	72.5	1.4
28	73.0	76.4	70.1	72.7	1.7
29	72.3	75.0	69.9	72.1	1.4
30	71.5	74.2	68.9	71.3	1.3
31	70.7	73.0	68.5	70.6	1.2
32	70.1	71.7	67.9	69.9	1.0
33	69.1	70.5	66.6	68.9	1.2
34	66.3	67.9	64.2	66.2	1.1
35	63.6	65.5	61.4	63.5	1.1
36	61.1	63.3	59.1	61.0	1.1
37	63.1	65.5	60.7	62.9	1.3
38	63.3	66.9	60.2	63.0	1.7
39	59.0	61.0	57.6	59.0	.9
40	55.0	55.0	55.0	55.0	.0
DBA	81.1	83.1	79.3	81.0	1.0
DBD	87.0	88.4	85.3	86.9	.9
OASPL	91.1	92.3	89.5	91.0	.7
PNL	95.0	96.9	93.4	94.9	1.0
PNLT	95.2	97.5	93.4	95.0	1.1

90°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With truck OCTOBER 28 1976

EVENT 36, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.6	79.3	70.9	73.9	2.2
15	74.9	77.9	71.9	74.7	1.3
16	81.3	84.8	76.6	80.8	2.1
17	79.0	81.8	75.8	78.6	1.9
18	80.6	83.1	77.6	80.4	1.4
19	82.3	83.8	80.1	82.2	.9
20	84.0	85.7	81.1	83.8	1.2
21	82.8	86.1	78.0	82.4	1.9
22	77.6	80.2	74.9	77.3	1.5
23	75.4	77.7	71.5	75.1	1.8
24	74.4	76.6	70.5	74.1	1.9
25	73.1	76.2	67.1	72.4	2.6
26	72.9	77.2	67.6	72.2	2.6
27	72.6	77.1	66.7	71.7	3.0
28	72.6	77.5	67.3	71.7	2.9
29	73.4	78.2	66.8	72.3	3.1
30	73.3	77.9	67.3	72.4	2.8
31	72.6	76.7	65.7	71.7	2.9
32	71.6	75.0	64.2	70.8	2.9
33	71.4	74.6	64.4	70.8	2.6
34	71.6	74.5	65.4	71.1	2.2
35	67.5	70.1	61.8	67.1	2.0
36	64.5	66.7	59.6	64.2	1.7
37	71.7	74.9	68.5	71.5	1.5
38	72.2	75.2	66.5	71.8	2.0
39	63.4	65.0	60.7	63.3	1.0
40	55.0	55.0	55.0	55.0	.0
DBA	83.4	86.6	77.9	82.9	2.2
DBD	90.0	92.4	85.6	89.7	1.8
OASPL	92.1	93.3	90.5	92.1	.8
PNL	97.9	100.1	93.5	97.5	1.7
PNLT	99.3	101.6	95.3	99.0	1.7

45°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With truck OCTOBER 28, 1976

EVENT 37, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.2	74.2	63.1	69.5	2.6
15	73.2	76.6	68.4	72.8	2.0
16	79.7	83.6	74.2	79.1	2.4
17	78.1	81.0	70.6	77.8	1.9
18	80.3	83.2	74.1	80.0	1.9
19	81.0	84.2	76.9	80.7	1.8
20	82.0	84.2	76.1	81.7	1.8
21	80.8	84.0	72.9	80.3	2.2
22	79.5	83.8	73.8	78.9	2.3
23	75.9	80.8	70.3	75.2	2.4
24	76.5	80.4	72.3	75.8	2.3
25	75.8	79.4	71.7	75.3	2.1
26	76.2	80.2	72.9	75.8	1.9
27	76.3	79.7	72.3	75.9	2.0
28	75.6	79.1	71.6	75.3	1.8
29	75.1	77.8	70.3	74.8	1.8
30	73.6	75.7	69.6	73.3	1.7
31	72.2	74.3	67.6	71.9	1.7
32	71.4	73.5	67.9	71.2	1.5
33	71.9	73.4	67.8	71.7	1.4
34	71.4	72.7	67.5	71.2	1.2
35	69.5	71.6	64.9	69.2	1.6
36	66.2	68.7	61.4	65.9	1.8
37	71.6	73.5	68.3	71.5	1.2
38	74.9	78.1	69.4	74.6	1.8
39	55.3	57.2	55.0	55.3	.6
40	55.0	55.0	55.0	55.0	.0
DBA	84.2	86.4	80.8	84.0	1.4
DBD	90.4	92.0	87.1	90.2	1.2
OASPL	92.2	94.2	90.2	92.1	1.0
PNL	99.1	101.0	95.2	98.9	1.4
PNLT	101.1	103.0	97.1	100.8	1.5

0°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

With Truck

OCTOBER 28, 1976

EVENT 38, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.2	73.9	59.9	69.3	3.1
15	74.7	79.1	66.9	73.9	2.9
16	81.3	85.2	73.6	80.4	3.0
17	80.4	84.2	72.6	79.6	2.8
18	81.8	85.1	76.4	81.2	2.4
19	81.6	84.9	74.4	81.0	2.4
20	84.0	87.9	76.6	83.1	2.9
21	82.4	85.5	76.6	81.8	2.5
22	81.2	83.8	78.3	81.1	1.1
23	75.6	78.5	72.9	75.5	1.2
24	74.7	77.4	72.7	74.5	1.2
25	72.8	75.6	69.8	72.5	1.5
26	73.5	76.7	70.1	73.2	1.7
27	73.7	76.8	69.7	73.4	1.8
28	73.4	75.8	69.5	73.1	1.7
29	73.8	76.5	71.0	73.5	1.5
30	73.5	76.3	70.9	73.3	1.4
31	72.5	74.9	69.9	72.3	1.4
32	71.9	75.0	69.0	71.6	1.5
33	72.4	75.9	69.7	72.1	1.6
34	71.3	74.7	68.0	70.9	1.9
35	68.1	71.4	64.3	67.7	1.9
36	65.7	69.2	62.1	65.3	1.9
37	69.0	71.6	65.1	68.6	1.9
38	73.9	77.4	70.3	73.5	2.0
39	55.6	57.1	55.0	55.5	.7
40	55.0	55.0	55.0	55.0	.0
DBA	83.5	86.1	81.0	83.3	1.3
DBD	89.9	92.4	87.5	89.7	1.3
OASPL	92.4	93.5	91.5	92.3	.5
PNL	98.4	100.7	96.0	98.2	1.3
PNLT	100.3	102.9	97.6	100.1	1.4

315°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

with truck OCTOBER 28 1976

EVENT 39, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	73.6	78.5	70.2	73.1	2.0
15	74.5	77.1	71.1	74.3	1.3
16	79.4	82.2	74.7	79.0	1.9
17	82.9	85.2	79.5	82.7	1.3
18	85.8	88.6	81.7	85.5	1.7
19	83.6	85.6	81.9	83.5	.9
20	86.3	89.2	84.3	86.1	1.2
21	87.5	91.2	83.4	87.1	1.9
22	82.7	84.7	78.6	82.5	1.5
23	79.5	82.2	75.3	79.2	1.7
24	78.4	80.7	74.8	78.1	1.7
25	77.9	80.6	74.2	77.4	2.2
26	78.8	80.6	73.2	78.2	2.4
27	79.9	81.7	73.1	79.0	2.8
28	79.7	82.3	72.5	78.9	2.8
29	79.3	82.3	71.9	78.3	3.0
30	77.0	79.5	70.3	76.3	2.7
31	75.2	77.6	69.8	74.6	2.4
32	73.6	75.9	68.8	73.1	2.1
33	71.1	73.9	67.2	70.8	1.7
34	68.5	71.1	65.7	68.2	1.4
35	65.9	67.9	65.0	65.8	.8
36	65.1	65.5	65.0	65.0	.1
37	65.0	65.3	65.0	65.0	.1
38	65.4	67.1	65.0	65.4	.5
39	65.2	66.0	65.0	65.2	.3
40	65.0	65.0	65.0	65.0	.0
DBA	86.1	88.7	81.3	85.6	2.3
DBD	91.1	92.6	88.6	90.9	1.5
OASPL	94.6	95.9	92.5	94.5	1.0
PNL	99.4	102.3	97.0	99.2	1.4
PNLT	99.4	102.3	97.0	99.2	1.4

270°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

With truck OCTOBER 28, 1976

EVENT 40, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.1	74.1	61.6	68.9	3.4
15	74.7	77.6	69.6	74.2	2.3
16	81.9	85.4	74.6	81.3	2.5
17	85.6	90.9	76.9	84.6	3.2
18	87.7	92.1	78.9	86.9	2.9
19	82.8	86.1	76.9	82.2	2.4
20	84.0	86.6	77.6	83.4	2.5
21	82.7	85.9	77.1	82.0	2.4
22	79.9	82.2	77.2	79.7	1.3
23	75.6	77.5	70.9	75.4	1.7
24	77.5	80.4	71.1	76.9	2.5
25	76.3	80.4	69.6	75.4	2.8
26	76.4	82.1	69.6	75.3	3.1
27	76.1	81.8	69.0	74.9	3.3
28	75.7	80.8	70.2	74.8	2.9
29	74.8	81.3	68.5	73.7	2.9
30	72.3	77.5	66.8	71.7	2.2
31	71.3	75.6	68.5	71.0	1.6
32	69.8	73.8	67.2	69.5	1.5
33	72.9	75.4	68.8	72.5	1.9
34	65.9	68.0	65.0	65.8	.8
35	65.0	65.1	65.0	65.0	.0
36	65.0	65.0	65.0	65.0	.0
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	83.2	87.4	79.9	82.9	1.7
DBD	89.5	91.6	87.8	89.4	.9
OASPL	94.4	96.6	92.4	94.3	1.0
PNL	98.7	100.4	96.2	98.6	1.2
PNLT	99.9	101.5	96.2	99.8	1.1

225°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
with truck

OCTOBER 28, 1976

EVENT 41, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.4	75.1	61.9	69.4	3.0
15	75.5	78.4	71.4	75.1	1.7
16	80.6	83.6	73.1	80.2	2.0
17	86.2	88.9	81.9	85.9	1.9
18	88.1	91.2	83.1	87.6	2.1
19	80.5	82.5	75.1	80.2	1.7
20	83.5	85.9	78.4	83.0	2.1
21	83.7	87.0	75.4	83.1	2.5
22	80.3	84.1	77.1	79.9	1.9
23	73.6	77.5	70.2	73.0	2.1
24	73.7	78.9	69.7	72.9	2.6
25	70.2	72.1	66.2	69.5	2.3
26	69.7	73.7	65.2	69.1	2.3
27	69.4	73.2	65.0	68.6	2.7
28	68.5	72.7	65.0	67.9	2.2
29	68.1	69.8	65.0	67.4	2.4
30	68.5	74.2	65.4	67.7	2.5
31	68.6	70.4	65.5	67.8	2.5
32	67.7	68.8	65.2	66.9	2.3
33	69.9	70.0	66.1	68.8	2.6
34	65.6	65.1	65.0	65.4	1.2
35	65.1	65.0	65.0	65.1	.4
36	65.0	65.0	65.0	65.0	.1
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	79.8	80.2	76.8	79.2	2.1
DBD	88.2	88.0	86.7	88.0	1.3
OASPL	94.3	95.9	92.5	94.1	1.2
PNL	96.4	100.5	94.8	96.2	1.4
PNLT	97.1	102.5	94.8	96.6	1.9

180°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With truck

OCTOBER 28 1976

EVENT 42, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.1	79.8	69.5	73.1	2.8
15	75.8	77.9	72.2	75.6	1.6
16	80.7	83.3	76.4	80.4	1.6
17	79.9	82.4	77.6	79.7	1.2
18	83.6	86.0	81.2	83.4	1.3
19	81.9	83.4	79.8	81.9	.8
20	85.8	87.6	83.6	85.7	.8
21	87.5	89.4	84.9	87.4	1.0
22	79.9	82.5	76.7	79.7	1.5
23	77.1	79.7	73.9	76.8	1.5
24	75.1	78.0	72.3	74.9	1.5
25	73.8	75.9	71.1	73.7	1.3
26	74.0	76.1	71.6	73.8	1.2
27	73.4	75.3	70.7	73.2	1.2
28	73.1	75.2	69.3	72.9	1.3
29	72.3	74.3	69.4	72.1	1.2
30	71.0	72.6	68.1	70.9	1.0
31	72.3	75.2	69.5	72.1	1.3
32	70.6	72.8	68.7	70.5	.9
33	71.6	73.7	69.4	71.4	1.3
34	65.9	67.0	65.1	65.9	.4
35	65.0	65.1	65.0	65.0	.0
36	65.0	65.0	65.0	65.0	.0
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	81.8	83.0	79.7	81.7	.8
DBD	88.7	89.4	87.7	88.7	.5
OASPL	92.9	94.3	91.5	92.9	.6
PNL	97.6	98.4	96.4	97.5	.5
PNLT	98.3	99.4	96.7	98.3	.7

135°
(Microphone Location
Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
without truck

OCTOBER 28 1976

EVENT 86, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DBA RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.7	69.6	66.2	67.6	.9
15	72.3	76.1	70.0	72.1	1.3
16	77.1	82.4	73.0	76.5	2.2
17	77.6	81.5	74.3	77.2	1.8
18	78.6	81.2	74.8	78.2	1.7
19	81.2	86.0	76.4	80.3	2.5
20	82.1	85.6	77.9	81.6	2.0
21	81.2	85.8	77.3	80.6	2.2
22	80.4	85.3	75.6	79.7	2.3
23	81.5	86.7	74.8	80.8	2.5
24	81.5	85.8	73.9	80.8	2.7
25	79.5	82.6	73.4	79.1	2.1
26	79.3	81.6	74.8	78.9	1.9
27	79.3	82.4	75.2	78.9	1.9
28	77.9	81.9	73.2	77.4	2.2
29	76.4	80.0	72.0	75.9	2.0
30	74.6	78.0	70.1	74.3	1.8
31	72.0	74.6	68.8	71.8	1.4
32	69.9	72.0	67.2	69.7	1.2
33	67.2	69.3	65.1	67.0	1.2
34	65.3	66.6	65.0	65.3	.5
35	65.0	65.0	65.0	65.0	.0
36	65.0	65.0	65.0	65.0	.0
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	84.3	87.1	80.8	84.0	1.7
DBD	89.8	92.5	87.3	89.6	1.3
OASPL	91.7	95.4	88.8	91.5	1.5
PNL	97.7	100.5	94.9	97.5	1.3
PNLT	97.7	100.5	94.9	97.5	1.3

270°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

without truck OCTOBER 28 1976

EVENT 87, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DBA RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.2	68.0	64.1	66.1	1.0
15	70.2	72.5	66.9	70.0	1.4
16	75.0	78.1	71.0	74.5	2.0
17	83.9	85.5	81.7	83.8	1.0
18	85.8	87.5	83.9	85.7	.9
19	79.1	80.6	77.0	79.0	1.1
20	82.2	84.9	79.3	82.0	1.6
21	82.5	84.9	77.2	82.1	2.1
22	80.1	83.4	76.4	79.8	1.5
23	80.8	85.0	77.4	80.3	2.0
24	80.8	83.4	77.3	80.5	1.6
25	79.1	82.6	76.0	78.8	1.8
26	78.7	81.7	75.4	78.4	1.6
27	79.1	82.7	74.9	78.7	1.8
28	78.1	80.8	74.8	77.8	1.6
29	76.6	79.4	73.0	76.4	1.4
30	75.3	76.9	70.9	75.1	1.3
31	75.0	76.8	70.6	74.8	1.6
32	73.1	75.7	69.8	72.8	1.6
33	70.9	73.4	67.8	70.6	1.4
34	68.5	71.5	65.1	68.3	1.4
35	65.3	69.4	62.5	65.0	1.4
36	60.7	63.3	58.1	60.5	1.2
37	55.9	57.5	55.0	55.9	.6
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	85.1	87.6	82.4	85.0	1.3
DBD	89.8	92.2	87.8	89.7	1.1
OASPL	92.5	94.1	91.0	92.4	.8
PNL	97.5	99.6	95.5	97.4	1.1
PNLT	97.5	99.6	95.5	97.4	1.1

225°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
Without Truck OCTOBER 28 1976

EVENT 88, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.5	71.5	66.0	69.3	1.4
15	79.1	82.3	72.5	78.3	2.9
16	86.4	89.0	77.8	85.5	3.2
17	88.8	90.8	87.1	88.7	1.0
18	89.9	91.8	88.3	89.8	.9
19	86.8	89.9	83.1	86.4	1.8
20	89.3	92.0	87.2	89.2	1.2
21	90.1	92.7	87.6	89.9	1.3
22	88.6	91.0	84.6	88.4	1.5
23	88.3	92.2	82.9	87.9	2.0
24	88.0	91.0	82.9	87.6	1.9
25	85.7	89.6	80.6	85.3	2.1
26	84.8	88.4	81.0	84.4	1.9
27	84.0	86.4	79.9	83.7	1.6
28	82.2	84.5	77.0	82.0	1.6
29	80.9	82.6	76.7	80.7	1.5
30	79.3	81.9	74.4	79.0	1.7
31	78.4	80.7	74.1	78.1	1.7
32	75.8	78.6	72.5	75.6	1.3
33	72.0	73.8	70.0	71.9	.9
34	69.1	70.9	66.5	69.0	1.1
35	65.6	67.2	63.2	65.5	.9
36	61.0	62.6	59.3	61.0	.7
37	56.6	57.4	55.5	56.6	.5
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	89.8	91.6	86.0	89.6	1.3
DBD	95.0	96.8	91.7	94.8	1.3
OASPL	98.8	100.3	96.2	98.6	1.1
PNL	102.7	104.3	99.5	102.5	1.2
PNLT	102.7	104.3	99.5	102.5	1.2

180°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
Without truck OCTOBER 28 1976

EVENT 89, 135 DEGREES, MICROPHHNE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DBA RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	70.1	72.4	66.6	69.8	1.5
15	78.6	80.8	75.2	78.3	1.6
16	85.3	87.9	80.7	84.9	2.0
17	89.3	92.2	86.2	89.0	1.5
18	88.8	91.5	85.5	88.6	1.4
19	90.9	95.9	85.7	90.3	2.2
20	93.0	98.2	89.5	92.4	2.1
21	92.5	97.1	88.5	91.9	2.1
22	92.4	97.9	87.2	91.4	2.9
23	92.2	98.5	85.9	90.8	3.3
24	90.8	96.1	85.0	89.9	2.8
25	87.7	91.5	82.4	87.0	2.5
26	86.2	89.1	81.0	85.7	2.3
27	86.3	89.2	83.2	86.0	1.6
28	85.2	88.7	80.8	84.7	2.2
29	82.8	86.1	79.3	82.4	1.9
30	80.6	83.1	77.8	80.3	1.6
31	79.8	82.5	77.2	79.5	1.5
32	77.1	79.6	75.1	77.0	1.3
33	74.8	77.0	73.1	74.7	1.0
34	70.8	74.1	68.1	70.6	1.4
35	67.2	70.6	65.5	67.0	1.3
36	65.1	65.6	65.0	65.1	.2
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	92.2	96.1	88.8	91.7	1.9
DBD	97.7	102.1	94.3	97.2	2.0
OASPL	101.3	105.8	98.0	100.8	2.0
PNL	105.6	109.8	102.4	105.1	1.9
PNLT	105.6	109.8	102.4	105.1	1.9

135°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without Truck OCTOBER 28 1976

EVENT 90, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.1	70.0	65.4	66.9	1.2
15	71.7	73.7	69.1	71.6	1.2
16	76.9	79.6	72.4	76.6	1.8
17	80.8	83.1	77.5	80.5	1.5
18	80.7	83.2	76.8	80.5	1.4
19	82.0	84.0	78.6	81.7	1.5
20	85.1	87.2	81.2	84.9	1.5
21	84.9	86.9	80.9	84.7	1.5
22	83.8	86.4	78.8	83.6	1.7
23	83.4	87.3	78.2	82.9	2.1
24	84.1	88.2	79.8	83.6	2.3
25	82.6	87.0	77.7	82.1	2.2
26	82.4	86.9	77.5	81.8	2.2
27	81.6	86.2	77.6	81.1	2.0
28	80.4	84.4	76.3	80.0	1.9
29	77.6	79.8	75.0	77.4	1.3
30	75.5	76.9	72.7	75.3	1.2
31	74.3	75.9	71.9	74.2	1.0
32	72.4	74.6	69.0	72.2	1.3
33	69.1	70.6	66.5	69.0	1.0
34	66.1	67.4	65.0	66.0	.7
35	65.0	65.0	65.0	65.0	.0
36	65.0	65.0	65.0	65.0	.0
37	65.2	66.0	65.0	65.2	.3
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	86.8	90.1	83.8	86.5	1.6
DBD	92.0	94.9	89.2	91.8	1.4
OASPL	94.4	96.9	91.5	94.2	1.3
PNL	99.8	102.4	97.3	99.6	1.3
PNLT	99.8	102.4	97.3	99.6	1.3

90°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
Without truck OCTOBER 28 1976

EVENT 92, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.4	68.3	64.5	66.3	1.0
15	69.0	72.3	65.1	68.7	1.5
16	75.3	80.4	70.4	74.7	2.2
17	76.1	80.1	72.8	75.8	1.5
18	78.1	81.2	75.3	77.8	1.5
19	80.6	82.9	77.3	80.4	1.5
20	82.4	84.0	79.8	82.3	1.1
21	81.8	84.4	78.9	81.6	1.4
22	80.0	82.8	76.2	79.6	2.0
23	79.0	83.7	74.8	78.1	2.6
24	79.2	83.2	74.5	78.4	2.6
25	78.7	82.6	72.9	77.7	2.9
26	78.9	83.5	71.4	77.9	3.1
27	79.7	84.1	72.6	78.5	3.2
28	78.9	84.5	72.6	77.7	3.1
29	77.2	81.4	71.3	76.4	2.7
30	75.8	80.2	69.7	75.1	2.6
31	73.9	77.6	68.3	73.4	2.1
32	71.5	74.9	67.3	71.1	1.8
33	68.6	71.8	64.6	68.3	1.6
34	66.3	68.4	61.8	66.0	1.7
35	64.4	66.3	60.6	64.2	1.5
36	61.3	63.1	57.7	61.1	1.4
37	72.0	74.4	68.0	71.7	1.6
38	58.8	61.1	56.1	58.6	1.2
39	56.8	58.0	55.5	56.8	.6
40	55.0	55.0	55.0	55.0	.0
DBA	85.1	88.7	79.9	84.5	2.3
DBD	89.8	92.7	85.5	89.5	1.8
OASPL	91.5	94.4	89.0	91.3	1.5
PNL	98.0	100.6	93.9	97.7	1.7
PNLT	101.9	104.3	97.6	101.6	1.7

45°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
Without truck OCTOBER 28 1976

EVENT 93, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DBA RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.7	67.9	62.0	65.4	1.7
15	71.1	72.9	65.2	70.8	1.6
16	78.3	80.9	67.9	77.8	2.4
17	79.1	82.5	75.8	78.8	1.6
18	81.7	84.8	77.5	81.5	1.6
19	81.2	83.8	78.9	81.1	1.2
20	83.5	86.7	81.2	83.3	1.4
21	82.5	85.3	78.9	82.2	1.6
22	80.4	84.3	77.4	80.1	1.5
23	79.6	82.5	76.7	79.4	1.3
24	79.8	81.5	76.6	79.6	1.4
25	78.4	80.4	74.1	78.1	1.5
26	78.6	80.7	73.3	78.3	1.9
27	79.7	83.4	72.6	79.2	2.1
28	78.6	80.5	72.1	78.3	1.7
29	77.0	78.9	71.9	76.8	1.4
30	74.7	76.2	69.9	74.5	1.3
31	72.5	74.1	69.2	72.4	1.1
32	70.9	72.7	68.0	70.8	1.2
33	69.4	71.5	66.9	69.2	1.2
34	68.2	70.4	65.2	68.0	1.5
35	68.5	71.3	64.9	68.2	1.7
36	62.7	65.3	59.9	62.5	1.4
37	70.0	73.0	66.3	69.6	1.8
38	59.4	62.3	56.1	59.1	1.5
39	57.1	58.6	55.5	57.0	.8
40	55.0	55.0	55.0	55.0	.0
DBA	85.0	86.7	81.0	84.8	1.1
DBD	90.0	91.6	87.1	89.9	1.0
OASPL	92.0	93.7	90.3	92.0	.9
PNL	98.0	99.4	94.9	97.9	1.0
PNLT	100.9	102.2	97.6	100.8	1.0

0° (Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without truck OCTOBER 28 1976

EVENT 86, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.1	70.7	67.4	69.0	1.0
15	72.6	74.2	70.4	72.5	1.0
16	76.7	78.8	74.2	76.5	1.2
17	77.0	78.8	75.1	76.9	.9
18	79.1	80.3	76.6	79.0	1.0
19	81.2	84.1	78.9	81.1	1.2
20	83.8	86.4	82.2	83.7	1.0
21	82.4	84.0	79.9	82.3	1.1
22	77.8	81.5	75.4	77.6	1.4
23	74.6	76.2	72.7	74.5	1.0
24	74.5	76.9	72.0	74.3	1.2
25	73.2	75.7	70.1	73.1	1.2
26	72.6	74.4	69.9	72.4	1.2
27	71.9	73.8	69.0	71.7	1.3
28	71.2	72.7	69.4	71.1	.9
29	70.4	72.2	67.5	70.2	1.0
30	69.5	71.2	66.9	69.4	.9
31	69.6	71.4	67.1	69.4	1.2
32	67.9	70.1	65.5	67.8	.9
33	67.5	69.8	65.6	67.3	1.1
34	65.1	66.0	65.0	65.1	.2
35	65.0	65.0	65.0	65.0	.0
36	65.0	65.0	65.0	65.0	.0
37	65.5	67.0	65.0	65.5	.7
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	79.5	80.9	77.1	79.4	.8
DBD	86.9	88.0	85.8	86.9	.5
OASPL	90.4	91.4	89.4	90.4	.5
PNL	95.1	95.9	93.9	95.1	.5
PNLT	95.1	95.9	93.9	95.1	.5

90°
(Microphone Location
Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without Track OCTOBER 28 1976

EVENT 87, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	64.3	66.2	62.5	64.3	.9
15	70.2	71.7	68.5	70.1	.9
16	76.4	79.0	73.2	76.1	1.8
17	74.7	80.4	70.6	74.0	2.3
18	76.4	81.4	72.5	75.7	2.2
19	80.7	84.7	77.2	80.3	1.9
20	82.5	84.9	78.6	82.2	1.8
21	80.3	83.1	77.5	80.0	1.6
22	75.1	78.3	72.3	74.7	1.7
23	72.4	76.5	68.6	71.9	2.0
24	72.6	76.2	68.2	72.1	2.3
25	71.3	76.0	65.1	70.6	2.6
26	70.9	74.9	64.9	70.2	2.6
27	71.3	76.1	64.8	70.5	2.7
28	72.1	76.0	66.4	71.3	2.8
29	73.7	78.2	67.8	72.8	2.8
30	72.8	78.1	67.5	71.8	3.0
31	71.3	76.1	66.5	70.5	2.6
32	69.9	73.7	64.9	69.2	2.5
33	69.2	72.5	64.7	68.5	2.4
34	66.8	69.1	62.0	66.3	2.1
35	65.5	68.1	61.1	65.0	2.0
36	62.4	64.8	58.9	62.1	1.7
37	74.0	76.4	69.1	73.5	2.2
38	60.2	62.5	56.6	59.9	1.8
39	57.5	58.7	55.8	57.4	.9
40	55.0	55.0	55.0	55.0	.0
DBA	81.8	84.7	77.7	81.3	2.1
DBD	88.4	90.2	84.9	88.0	1.8
OASPL	89.3	92.0	87.1	89.1	1.4
PNL	96.8	98.6	93.3	96.5	1.8
PNLT	101.0	103.0	97.1	100.6	1.9

45°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without Truck OCTOBER 28, 1976

EVENT 88, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.2	67.0	62.5	65.1	1.1
15	72.3	73.8	70.1	72.2	1.0
16	78.6	80.5	74.9	78.4	1.5
17	81.7	83.6	79.2	81.6	1.0
18	82.6	84.3	79.8	82.4	1.1
19	79.1	81.6	75.8	78.9	1.4
20	81.7	83.3	77.8	81.5	1.4
21	80.3	82.8	76.4	80.1	1.4
22	77.0	80.5	71.1	76.3	2.6
23	71.9	73.9	67.8	71.5	1.9
24	73.0	76.7	68.5	72.6	2.0
25	71.6	73.9	68.6	71.3	1.6
26	72.1	75.5	68.6	71.6	1.9
27	71.8	75.5	68.1	71.4	1.9
28	71.4	74.5	67.5	71.0	1.7
29	71.2	74.7	67.7	70.9	1.8
30	70.2	72.9	66.9	69.9	1.5
31	68.8	71.6	65.8	68.5	1.6
32	67.7	70.5	63.9	67.4	1.6
33	68.8	71.8	63.2	68.4	2.1
34	67.0	70.2	62.0	66.6	2.0
35	67.3	71.1	60.9	66.6	2.6
36	61.3	64.7	56.0	60.7	2.3
37	69.4	72.6	64.3	69.0	2.1
38	57.7	60.4	55.1	57.4	1.7
39	55.0	55.0	55.0	55.0	.0
40	55.5	58.0	55.0	55.4	.8
DBA	80.5	83.1	77.1	80.2	1.5
DBD	86.9	89.2	83.3	86.7	1.4
OASPL	90.0	90.9	87.8	89.9	.8
PNL	95.1	97.4	91.3	94.9	1.5
PNLT	98.4	100.8	94.2	98.2	1.6

0°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without truck OCTOBER 28 1976

EVENT 89, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	64.9	67.5	61.3	64.6	1.6
15	69.9	71.8	66.8	69.8	1.3
16	75.1	77.6	70.1	74.6	2.3
17	78.8	82.7	74.2	78.2	2.4
18	79.2	81.8	76.2	78.8	1.8
19	80.0	82.8	78.1	79.8	1.1
20	83.5	85.8	80.7	83.4	1.1
21	81.2	83.4	79.0	81.0	1.1
22	77.7	81.5	72.7	77.0	2.4
23	73.6	77.0	68.3	73.1	2.4
24	74.1	78.3	68.5	73.4	2.4
25	73.9	76.0	67.3	73.2	2.5
26	74.8	76.2	69.7	74.2	2.3
27	75.3	76.8	70.2	74.6	2.5
28	74.8	76.5	70.2	74.3	2.1
29	75.0	77.9	71.8	74.7	1.8
30	74.2	76.4	70.4	73.9	1.7
31	73.9	76.1	69.4	73.7	1.4
32	71.8	73.8	69.0	71.6	1.4
33	70.7	73.5	67.1	70.4	1.6
34	68.4	69.8	65.3	68.2	1.5
35	66.7	68.6	63.5	66.5	1.5
36	63.9	66.3	60.9	63.7	1.4
37	74.9	78.1	71.1	74.4	2.0
38	63.5	66.2	60.9	63.3	1.5
39	59.2	60.6	58.0	59.1	.7
40	55.0	55.0	55.0	55.0	.0
DBA	83.7	85.5	81.1	83.5	1.5
DBD	89.8	92.2	87.0	89.6	1.4
OASPL	90.1	91.8	88.4	90.0	.9
PNL	98.4	101.1	95.6	98.1	1.5
PNLT	102.1	105.2	99.0	101.8	1.7

315°
(Microphone Location Relative to Helicopter

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
without truck OCTOBER 28, 1976

EVENT 90, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.7	70.0	66.8	68.6	.9
15	73.7	74.6	72.1	73.6	.8
16	79.6	80.6	76.9	79.4	1.3
17	81.8	86.0	77.2	81.0	2.6
18	81.9	86.0	77.3	81.2	2.5
19	81.6	83.9	79.0	81.5	1.1
20	84.5	86.3	81.3	84.4	1.1
21	82.6	85.2	79.8	82.4	1.3
22	78.6	81.0	75.9	78.4	1.3
23	75.1	79.0	70.5	74.6	2.1
24	76.9	80.5	72.5	76.3	2.3
25	76.8	80.2	70.6	76.4	2.1
26	78.7	82.1	73.9	78.3	2.1
27	79.3	81.4	75.2	79.0	1.7
28	79.6	81.7	75.4	79.3	1.6
29	79.7	81.9	75.8	79.4	1.5
30	78.2	80.7	73.5	77.9	1.7
31	77.2	79.8	73.8	76.9	1.7
32	75.2	77.7	70.2	74.8	2.0
33	73.1	75.9	68.6	72.6	2.1
34	69.2	71.7	65.5	68.9	1.7
35	64.0	66.2	60.8	63.8	1.5
36	59.0	60.9	56.7	58.8	1.2
37	62.9	64.8	59.4	62.6	1.6
38	55.2	55.6	55.0	55.2	.2
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	86.4	88.4	82.7	86.2	1.5
DBD	90.4	92.3	87.4	90.2	1.3
OASPL	92.3	94.3	91.0	92.2	.9
PNL	98.1	100.2	95.2	97.9	1.3
PNLT	100.0	102.2	96.9	99.7	1.4

270°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without Truck OCTOBER 28, 1976

EVENT 92, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.0	69.6	63.9	66.9	1.1
15	72.8	75.1	70.3	72.5	1.4
16	81.8	83.9	78.4	81.6	1.6
17	84.4	86.8	80.7	84.2	1.5
18	86.4	89.2	83.2	86.2	1.4
19	82.7	84.4	80.0	82.5	1.2
20	84.2	86.5	81.3	84.1	1.1
21	82.4	85.4	78.7	82.2	1.5
22	81.7	85.3	78.4	81.4	1.8
23	80.7	84.3	75.8	80.2	2.1
24	81.6	84.0	77.9	81.3	1.6
25	80.7	83.2	76.2	80.4	1.7
26	79.8	82.5	74.7	79.4	2.0
27	80.9	84.1	76.1	80.4	2.2
28	79.5	81.9	75.5	79.2	1.8
29	78.1	80.3	74.1	77.8	1.6
30	76.3	78.1	72.9	76.1	1.4
31	76.5	79.5	73.8	76.3	1.2
32	74.2	76.7	71.7	74.0	1.3
33	73.2	75.5	70.6	73.0	1.3
34	68.2	70.1	65.0	68.0	1.3
35	64.8	66.8	61.9	64.6	1.3
36	60.8	62.9	58.3	60.7	1.2
37	56.9	58.7	55.1	56.8	1.0
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	86.3	88.4	83.0	86.1	1.4
DBD	94.7	96.2	92.1	94.5	1.1
OASPL	93.8	95.1	92.4	93.7	.7
PNL	98.8	100.3	96.2	98.7	1.1
PNLT	98.8	100.3	96.2	98.7	1.1

225°
(Microphone Location Relative to Helicopter)

TABLE G-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
Without Truck OCTOBER 28 1976

EVENT 93, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.0	70.0	65.6	67.8	1.1
15	73.5	74.8	71.6	73.4	1.1
16	81.3	82.9	79.2	81.2	1.3
17	84.3	86.3	82.5	84.2	.8
18	87.2	88.8	84.4	87.2	.9
19	83.4	85.1	80.0	83.2	1.3
20	87.0	88.1	83.8	86.9	.9
21	87.1	88.6	85.1	87.0	.9
22	80.2	82.4	78.0	80.1	1.2
23	75.3	77.5	73.0	75.1	1.2
24	76.2	79.3	72.8	75.7	2.1
25	74.3	79.4	70.6	73.6	2.3
26	73.9	78.6	69.8	73.3	2.2
27	73.6	78.4	69.3	73.0	2.3
28	73.4	77.5	68.6	72.6	2.5
29	73.8	77.9	68.4	73.3	2.2
30	72.1	76.0	67.2	71.6	2.1
31	74.9	80.7	68.3	73.6	3.2
32	71.1	75.7	66.6	70.4	2.3
33	70.0	73.2	67.0	69.7	1.8
34	65.9	69.5	62.2	65.6	1.8
35	62.9	65.9	60.1	62.7	1.4
36	60.3	62.4	58.4	60.2	1.0
37	57.7	59.8	56.0	57.7	.9
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	82.7	86.4	78.9	82.3	1.9
DBD	88.6	91.1	86.3	88.4	1.2
OASPL	94.0	95.5	92.6	94.0	.6
PNL	96.9	99.2	94.7	96.8	1.0
PNLT	97.6	100.9	94.7	97.3	1.6

180°
(Microphone Location Relative to Helicopter)

TABLE G-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 With truck OCTOBER 28 1976

EVENT 45, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.2	76.6	66.5	71.3	2.9
15	72.5	75.2	69.6	72.2	1.5
16	74.1	77.1	69.7	73.8	1.6
17	78.1	80.3	76.0	77.9	1.1
18	80.5	82.4	78.1	80.4	1.0
19	75.8	78.4	74.0	75.7	1.1
20	72.7	75.4	70.6	72.5	1.2
21	69.1	71.1	67.0	69.0	1.1
22	78.3	81.3	75.8	78.0	1.5
23	83.8	86.1	80.7	83.6	1.4
24	86.0	88.6	82.8	85.7	1.5
25	80.9	84.3	77.5	80.5	2.0
26	79.7	81.2	76.7	79.5	1.2
27	83.5	86.2	80.9	83.3	1.4
28	79.4	80.5	75.6	79.2	1.2
29	79.C	81.1	76.2	78.8	1.2
30	76.9	79.1	73.2	76.7	1.3
31	75.4	77.0	71.0	75.2	1.3
32	71.9	74.0	68.4	71.7	1.2
33	69.4	71.1	66.0	69.3	1.2
34	64.1	65.7	60.5	64.0	1.2
35	60.1	61.5	56.9	59.9	1.1
36	56.3	57.7	55.0	56.2	.7
37	55.0	55.0	55.0	55.0	.0
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	86.9	88.5	84.7	86.8	.9
DBD	91.2	92.7	89.3	91.1	.9
OASPL	92.5	94.4	90.4	92.4	1.1
PNL	98.2	100.0	96.3	98.1	1.0
PNLT	98.2	100.0	96.3	98.1	1.0

270°
(Microphone Location Relative to Helicopter)

TABLE G-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
With Truck OCTOBER 28 1976

EVENT 45, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.2	75.7	71.4	74.1	1.1
15	74.8	77.0	72.7	74.7	1.0
16	78.6	80.8	75.4	78.4	1.3
17	79.7	81.6	77.8	79.6	1.0
18	80.6	82.4	77.7	80.5	1.0
19	72.1	74.2	70.1	72.0	1.0
20	72.7	74.5	70.7	72.5	1.3
21	82.1	84.3	78.7	81.8	1.6
22	86.6	88.5	83.3	86.3	1.6
23	87.4	88.8	84.7	87.2	1.3
24	83.9	85.5	81.2	83.8	1.2
25	84.0	85.5	81.6	83.9	1.1
26	86.8	88.2	83.9	86.7	1.0
27	82.3	83.9	80.0	82.2	1.0
28	81.6	83.5	78.3	81.5	1.1
29	80.1	81.4	76.8	80.0	1.1
30	77.8	79.1	74.9	77.7	1.1
31	76.5	78.0	73.6	76.3	1.2
32	73.7	75.2	71.2	73.6	1.0
33	71.2	73.3	68.6	71.0	1.2
34	67.1	68.4	65.2	67.1	.8
35	64.1	65.5	62.6	64.1	.8
36	60.8	62.3	59.4	60.7	.8
37	57.3	59.0	56.0	57.3	.8
38	55.6	56.8	55.0	55.5	.5
39	55.3	55.8	55.0	55.3	.3
40	55.0	55.0	55.0	55.0	.0
DBA	88.7	90.1	86.2	88.6	.9
DBD	93.3	94.3	91.0	93.2	.9
OASPL	94.8	95.9	92.5	94.7	1.0
PNL	100.7	101.9	98.3	100.7	.9
PNLT	100.7	101.9	98.3	100.7	.9

90°
(Microphone Location Relative to Helicopter)

TABLE G-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
without truck OCTOBER 28 1976

EVENT 72, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.8	69.1	63.4	66.5	1.4
15	70.8	73.4	67.9	70.6	1.4
16	74.4	78.2	70.2	73.8	2.1
17	75.8	77.9	74.4	75.7	.8
18	78.0	79.4	76.4	77.9	.8
19	67.0	69.0	65.2	66.8	1.0
20	74.9	76.6	72.8	74.9	.9
21	82.1	84.7	80.0	82.0	1.2
22	85.0	87.5	81.7	84.5	2.0
23	85.7	88.7	81.5	85.1	2.5
24	79.7	82.8	75.0	79.0	2.6
25	85.0	87.6	80.4	84.4	2.4
26	82.6	84.4	78.6	82.2	1.9
27	82.5	85.1	78.9	82.1	2.0
28	79.5	82.1	75.8	79.0	2.0
29	78.4	81.0	74.8	78.0	2.0
30	75.9	78.4	72.8	75.7	1.5
31	75.8	77.8	72.8	75.5	1.6
32	71.8	73.7	69.9	71.7	1.1
33	67.8	70.0	65.5	67.7	1.1
34	63.3	65.0	61.6	63.2	.9
35	60.0	64.5	58.0	59.7	1.4
36	56.0	59.2	55.1	55.9	.9
37	55.9	57.6	55.0	55.8	.9
38	55.0	55.1	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	87.2	89.2	83.6	86.9	1.8
DBD	91.8	93.4	88.5	91.4	1.8
OASPL	93.3	94.9	90.6	93.0	1.6
PNL	98.5	100.2	95.5	98.2	1.7
PNLT	98.5	100.9	95.5	98.2	1.7

270°
(Microphone Location Relative to Helicopter)

TABLE G-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64

Without truck OCTOBER 28 1976

EVENT 72, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.6	74.8	64.4	68.5	2.9
15	71.4	76.6	68.2	70.8	2.1
16	77.4	82.9	71.6	76.5	2.6
17	76.2	78.9	73.9	76.0	1.2
18	77.7	80.1	74.4	77.6	1.2
19	74.0	76.9	71.3	73.8	1.3
20	71.5	73.4	69.2	71.4	1.0
21	68.6	70.2	66.4	68.5	1.0
22	75.1	77.0	73.1	74.9	1.1
23	79.5	81.4	77.5	79.4	1.1
24	81.8	83.9	79.3	81.7	1.1
25	77.3	79.7	73.4	77.0	1.6
26	76.1	78.1	72.9	75.8	1.6
27	79.3	81.9	76.8	79.0	1.3
28	73.9	75.8	71.2	73.7	1.3
29	73.8	76.5	71.4	73.6	1.4
30	71.7	74.1	68.9	71.5	1.4
31	70.0	72.4	67.0	69.8	1.3
32	66.6	68.8	63.5	66.4	1.4
33	63.2	66.1	59.9	63.0	1.4
34	58.2	60.9	56.3	58.0	1.2
35	55.4	57.1	55.0	55.4	.6
36	55.0	55.0	55.0	55.0	.0
37	55.0	55.0	55.0	55.0	.0
38	55.0	55.0	55.0	55.0	.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	82.2	84.2	80.3	82.1	1.1
DBD	86.6	88.2	84.8	86.5	.9
OASPL	89.2	91.7	87.6	89.1	1.0
PNL	94.2	95.8	92.5	94.1	.9
PNLT	94.2	95.8	92.5	94.1	.9

90°
(Microphone Location Relative to Helicopter)

TABLE G-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64 with truck OCTOBER 28 1976

EVENT 45, 0 DEGREES, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.0	79.2	72.3	75.7	1.7
15	75.7	77.7	72.2	75.5	1.2
16	76.6	79.9	71.9	76.1	2.1
17	83.1	84.0	81.8	83.0	.6
18	82.6	83.6	80.2	82.5	.9
19	70.3	72.0	68.1	70.2	.9
20	82.9	85.3	80.7	82.8	1.1
21	87.8	90.2	83.8	87.5	1.7
22	90.5	93.3	85.0	90.0	2.2
23	88.4	90.6	83.4	88.1	2.0
24	87.0	88.3	83.3	86.8	1.4
25	92.0	93.3	89.4	91.9	1.1
26	87.6	89.0	84.8	87.5	.9
27	88.8	90.0	86.6	88.7	.8
28	85.5	86.6	83.8	85.4	.8
29	83.8	84.9	82.3	83.7	.6
30	82.5	83.6	81.0	82.4	.7
31	80.0	81.2	78.8	80.0	.6
32	77.2	78.2	76.1	77.2	.5
33	74.2	75.6	72.9	74.2	.7
34	70.8	71.8	69.8	70.8	.5
35	68.1	69.2	67.0	68.1	.6
36	64.8	66.2	63.8	64.7	.6
37	62.1	63.7	59.8	62.0	.9
38	59.4	61.6	56.6	59.2	1.2
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	92.8	93.6	91.1	92.7	.7
DBD	97.4	98.3	95.3	97.3	.9
OASPL	98.8	100.2	96.0	98.7	1.2
PNL	104.8	105.7	102.7	104.7	.8
PNLT	104.8	105.7	102.7	104.7	.8

(Helicopter Location Directly Overhead)

TABLE G-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

SIKORSKY S-64
Without truck OCTOBER 28 1976

EVENT 72, 0 DEGREES, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.2	75.5	67.9	71.5	2.4
15	73.7	79.3	69.6	72.7	2.8
16	78.7	84.7	70.4	77.0	3.9
17	77.2	79.7	74.4	77.0	1.2
18	78.6	80.8	76.0	78.3	1.5
19	68.5	69.9	67.1	68.4	.7
20	81.0	83.2	78.6	80.8	1.3
21	86.4	87.8	83.6	86.3	1.1
22	87.9	90.3	84.6	87.5	1.9
23	85.8	88.3	82.3	85.4	2.1
24	83.8	85.6	81.0	83.6	1.4
25	88.9	91.4	84.8	88.4	2.2
26	85.0	87.3	82.4	84.8	1.4
27	86.2	88.4	82.9	85.9	1.7
28	83.1	85.3	80.4	82.9	1.5
29	79.8	81.3	78.0	79.7	1.0
30	77.5	79.1	76.4	77.5	.8
31	76.7	78.0	74.2	76.6	1.0
32	72.9	73.8	71.0	72.8	.7
33	69.3	71.8	67.3	69.0	1.5
34	65.3	66.8	62.8	65.2	1.1
35	62.1	63.9	59.8	61.9	1.2
36	58.8	60.8	56.7	58.6	1.1
37	58.1	61.6	55.8	57.8	1.4
38	55.1	55.5	55.0	55.1	.2
39	55.0	55.2	55.0	55.0	.1
40	55.0	55.0	55.0	55.0	.0
DBA	89.6	91.3	87.3	89.4	1.3
DBD	94.4	96.1	92.1	94.2	1.3
OASPL	97.2	98.8	96.0	97.2	.7
PNL	101.3	103.0	99.1	101.2	1.2
PNLT	101.4	103.0	99.1	101.3	1.1

(Helicopter Location Directly Overhead)

TABLE G-VIII

Helicopter Noise Level Data

SIKORSKY S64 OCTOBER 28, 1976

With truck

max RMS Noise Level - dBA re 20 uPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	MICROPHONE OFFSET TO THE WEST 75 M.	MICROPHONE OFFSET TO THE EAST 75 M.	MICROPHONE OFFSET TO THE EAST 150M
5 Ft. HOVER 0°	35	95.3 (270°)	103.0	91.0 (90°)	87.3
5Ft. HOVER 45°	36	95.8 (225°)	102.8	96.8 (45°)	87.3
5Ft. HOVER 90°	37	99.5 (180°)	104.0	96.5 (0°)	86.3
5 Ft. HOVER 135°	38	101.8 (135°)	105.8	96.3 (315°)	88.0
5Ft HOVER 180°	39	98.3 (90°)	101.0	94.3 (270°)	90.3
5Ft HOVER 225°	40	91.0 (45°)	97.3	97.0 (225°)	87.8
5Ft HOVER 270°	41	89.5 (0°)	97.5	92.0 (180°)	84.8
5Ft. HOVER 315°	42	93.3 (315°)	99.5	93.8 (135°)	83.0
500Ft HOVER 0°	45	88.0 (270°)	93.3 *	92.8 *	91.0 (90°)
500Ft HOVER 90°	46 47	87.5 88.8 (180°)	92.5 94.0 *	91.8 * 93.5 *	93.5 91.8 (0°)

* Microphone at centerline

TABLE G-VIII

Helicopter Noise Level Data

SIKORSKY S 64 OCTOBER 28, 1976

With truck

max RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST CENTER LINE 150M	
		OVER Concrete	OVER Concrete	Over Grass	Over Concrete
3° GLIDE SLOPE	70	85.5	89.0	88.0	85.8
	71	84.8	87.3	85.8	85.8
6° GLIDE SLOPE	51	86.0	86.8	84.0	83.3
	52	85.0	88.8	86.8	81.8
9° GLIDE SLOPE	43	87.0	89.5	87.5	84.6
	44	86.8	87.8	87.0	83.0
60 KT LEVEL FLYOVER	49	84.0	84.8	82.3	84.8
	50	84.8	85.0	84.3	85.5
85 KT LEVEL FLYOVER	55	84.0	84.0	82.3	84.3
	66	87.5	85.8	84.8	86.0
95KT LEVEL FLYOVER	67	87.8	87.0	86.3	87.3
	68	86.5	86.8	85.3	85.3
	69	86.0	87.0	86.5	87.3

TABLE G-VIII

Helicopter Noise Level Data

SIKORSKY S64 OCTOBER 28, 1976

Without truck

max RMS Noise Level - dBA re 20 uPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M	75 M	MICROPHONE OFFSET TO THE EAST 75 M	150M
5 Ft. HOVER 0°	86	86.8	90.3 (270°)	91.0 (90°)	85.0
5Ft. HOVER 45°	87	88.5	91.8 (225°)	93.5 (45°)	85.5
5 Ft. HOVER 90°	88	93.5	97.3 (180°)	93.5 (0°)	85.0
5 Ft. HOVER 135°	89	99.3	99.8 (135°)	97.5 (315°)	85.0
5Ft HOVER 180°	90	89.5	91.5 (90°)	94.8 (270°)	89.8
5Ft HOVER 225°	92	88.5	92.0 (45°)	96.3 (225°)	98.3
5 Ft HOVER 270°	93	89.0	91.5 (0°)	93.0 (180°)	96.3
5Ft. HOVER 315°		—	—	—	—
500Ft HOVER		—	—	—	—
500 Ft HOVER		—	—	—	—

TABLE G-VIII

Helicopter Noise Level Data

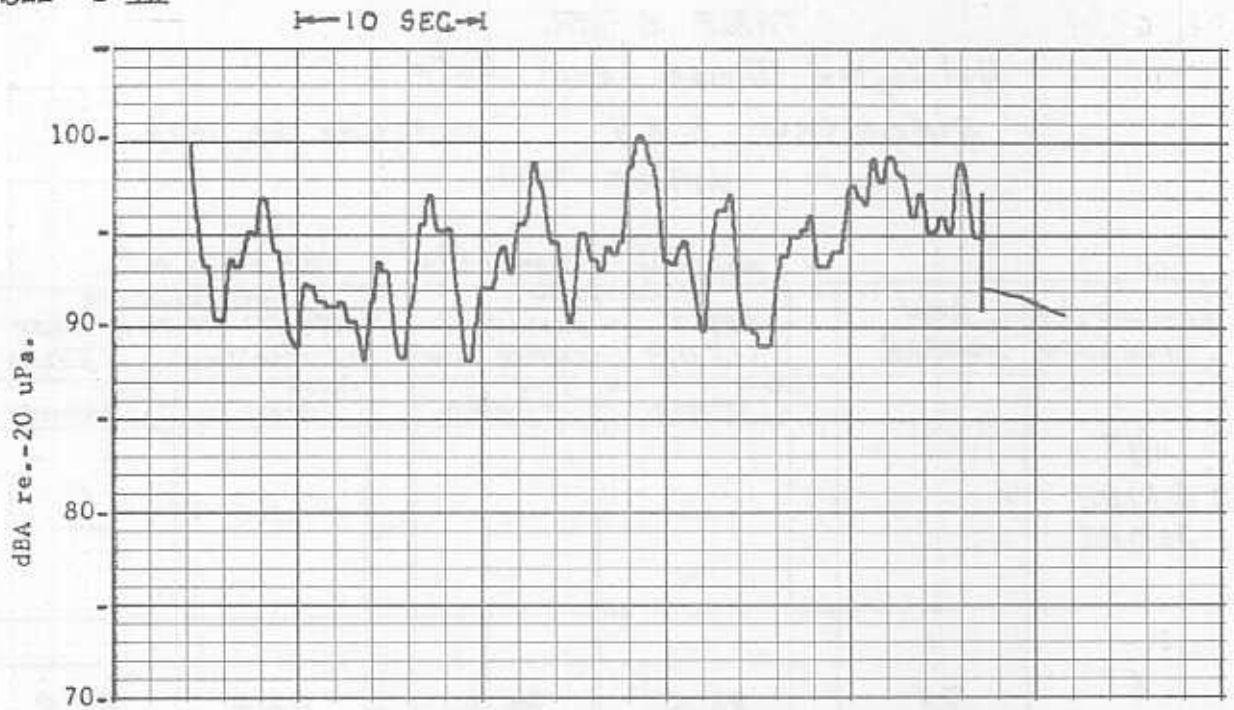
SIKORSKY S 64 OCTOBER 28, 1976

Without truck

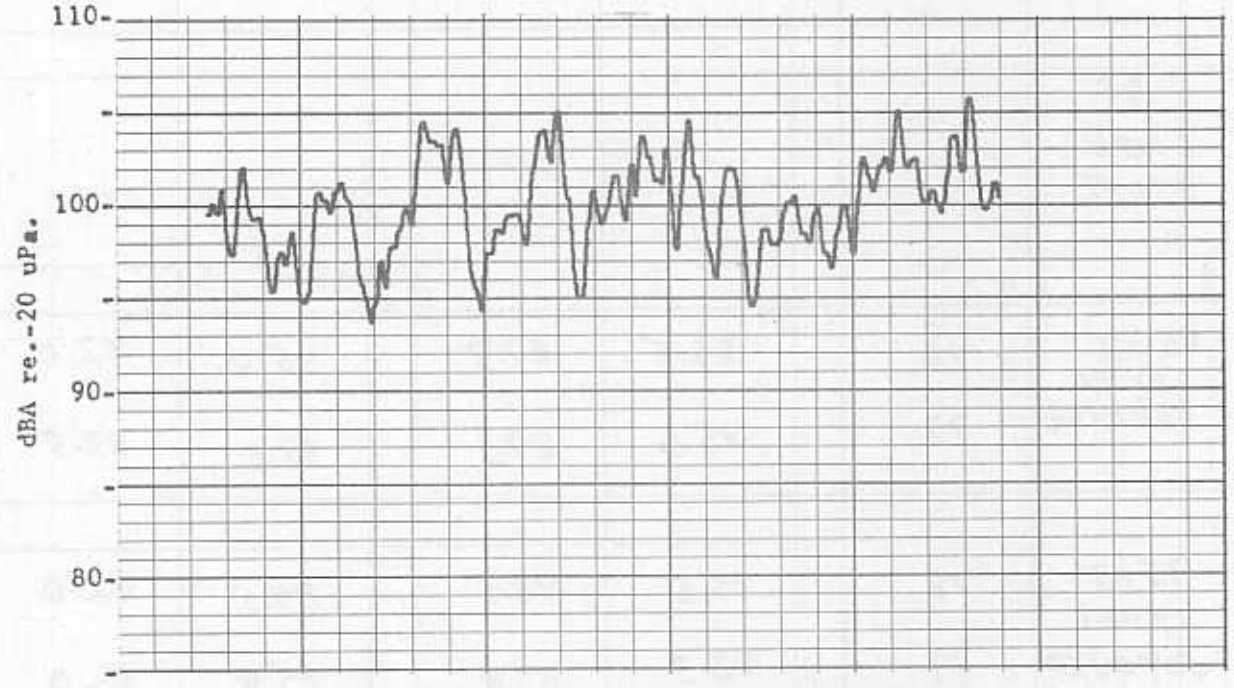
max RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST CENTER LINE 150M	
		over Concrete	over Concrete	over Grass	over Concrete
3° GLIDE SLOPE		—	—	—	—
6° GLIDE SLOPE	74	86.5	85.8	83.8	82.8
	75	86.0	86.5	83.5	83.5
9° GLIDE SLOPE		—	—	—	—
85 KT LEVEL FLYOVER	76	86.5	87.3	85.0	83.0
	77	85.0	87.3	83.8	83.5
95 KT LEVEL FLYOVER	78	85.5	88.5	84.5	82.0
	79	88.3	89.8	85.8	86.0
105 KT LEVEL FLYOVER	80	87.5	89.3	85.3	83.8
	81	89.0	89.5	86.8	82.8

TABLE G-IX



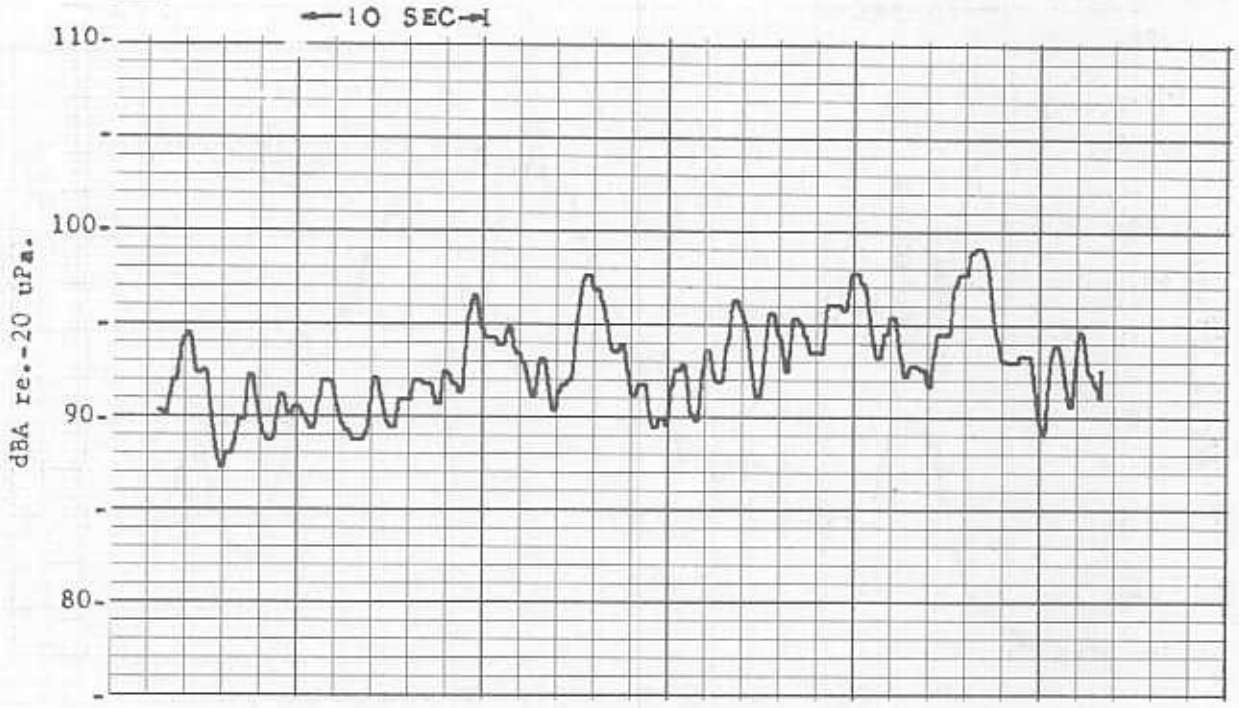
150 METERS WEST OF CENTER LINE



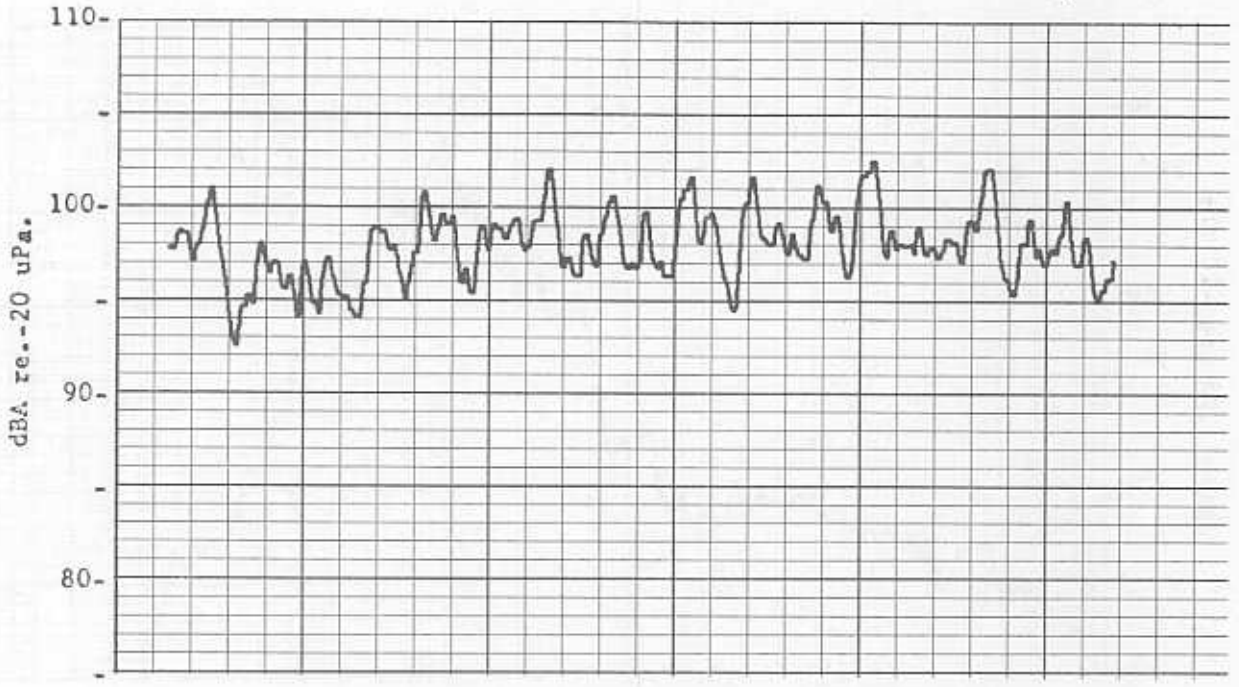
75 METERS WEST OF CENTER LINE

NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
90° HOVER - 5 FT. RUN 37

TABLE G-IX



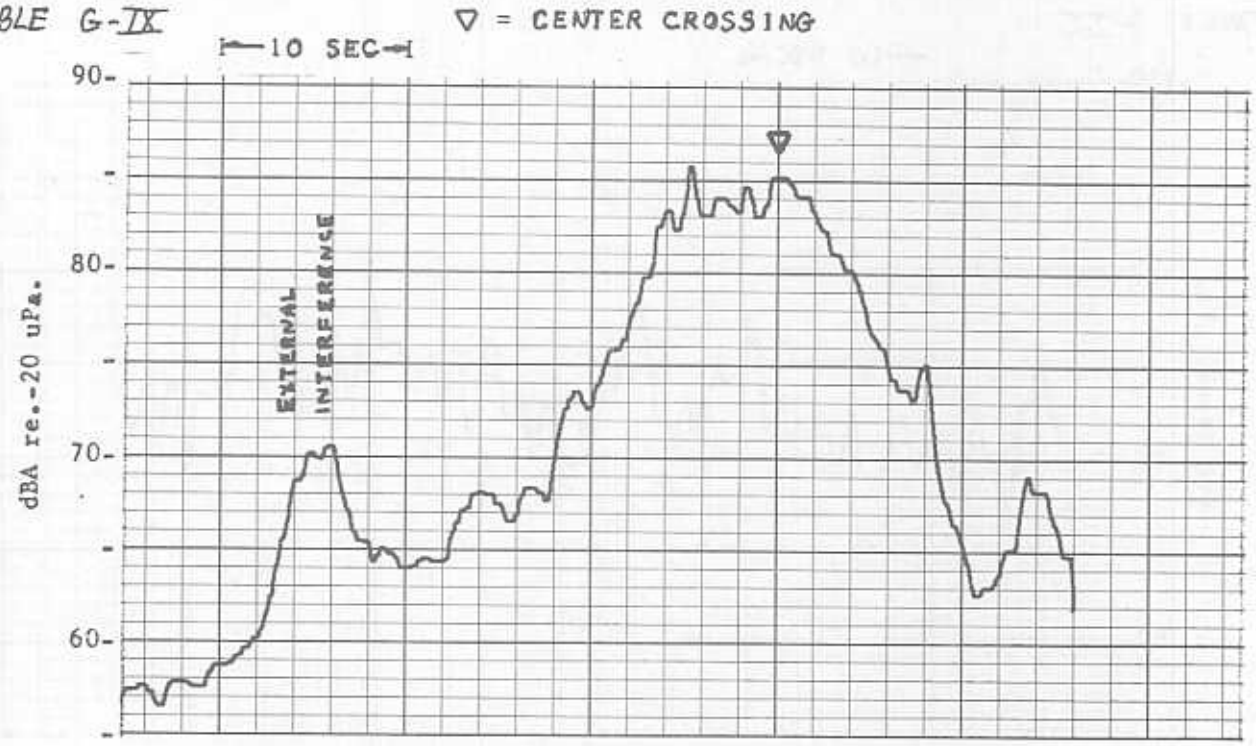
150 METERS WEST OF CENTER LINE



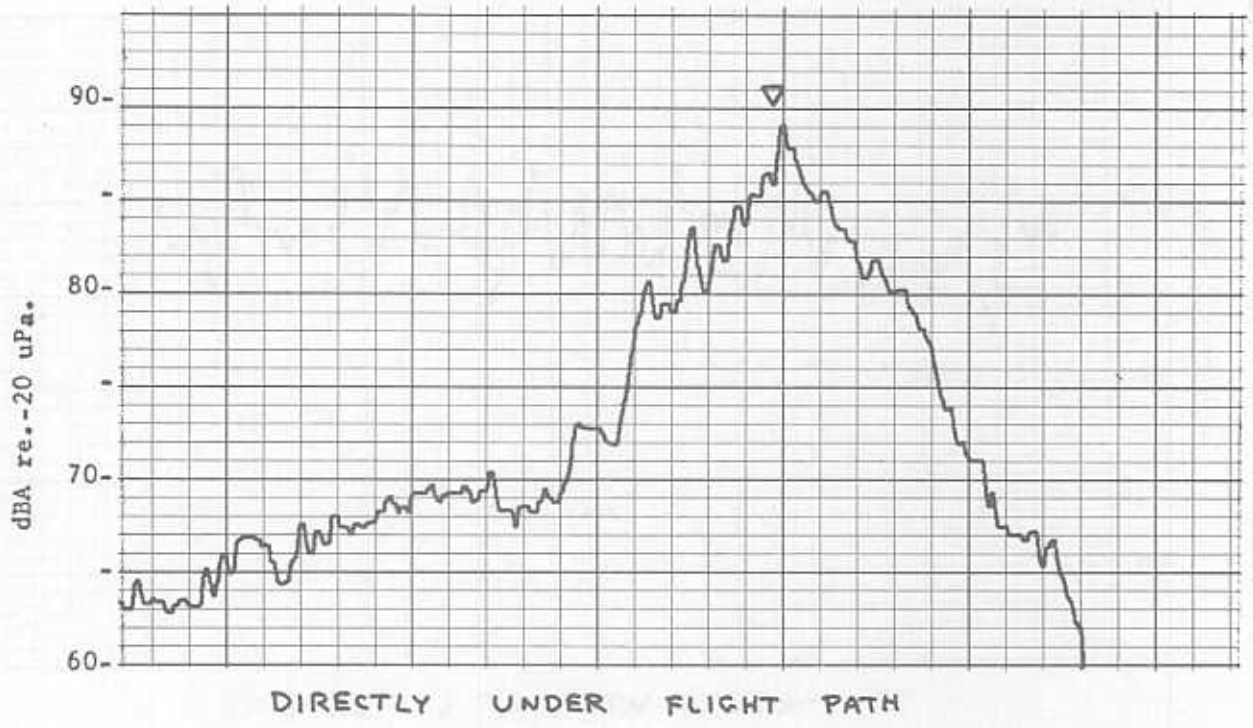
75 METERS WEST OF CENTER LINE

NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
180° HOVER - 5 FT. RUN 39

TABLE G-IX



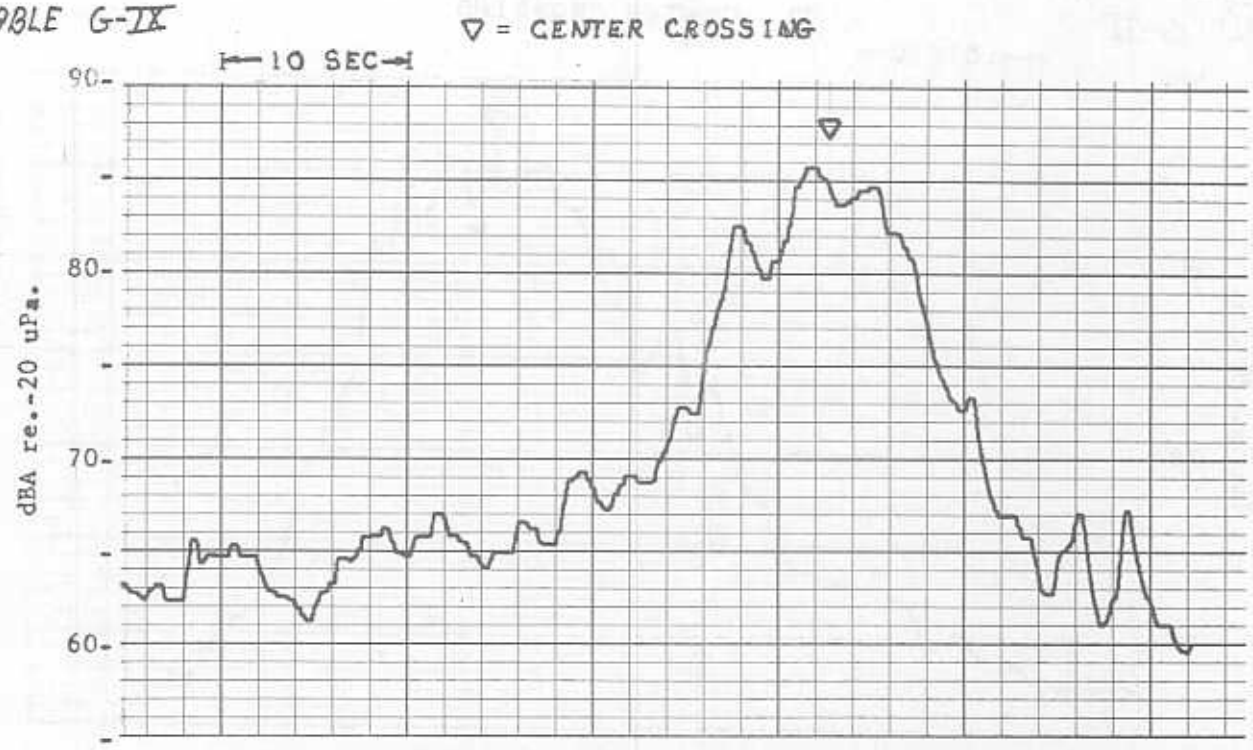
150 METERS WEST OF FLIGHT PATH

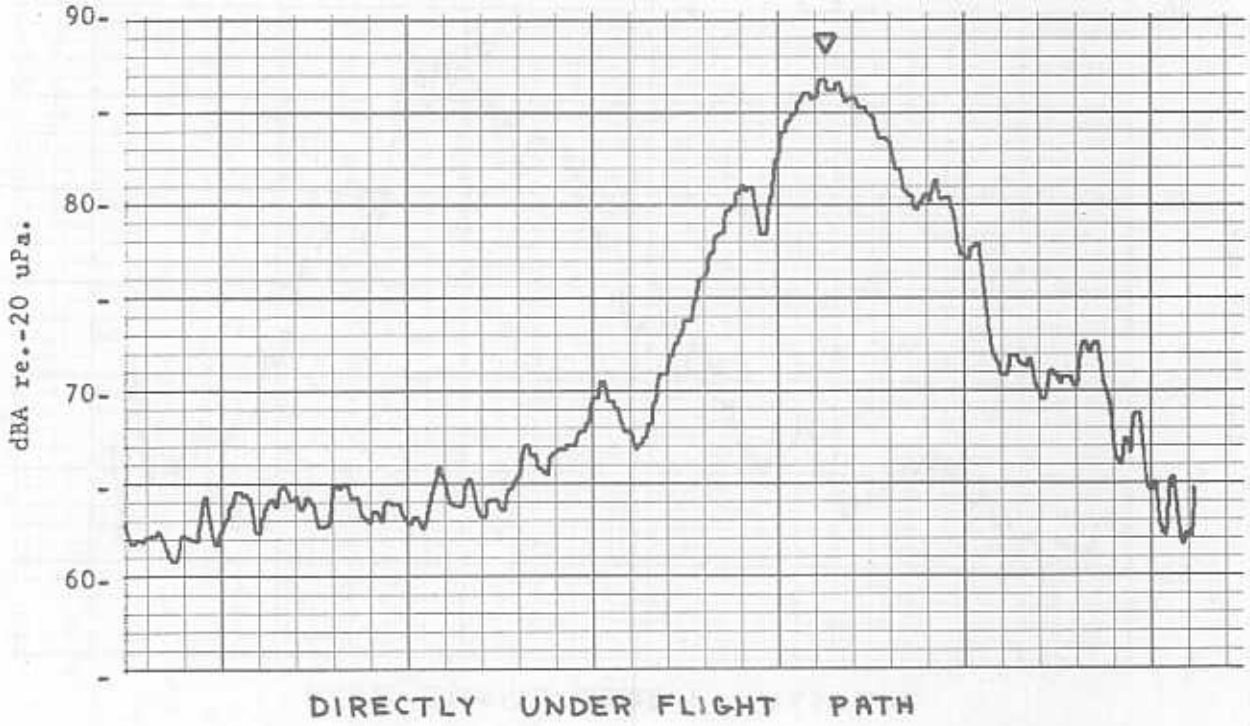


DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
3° APPROACH RUN 70

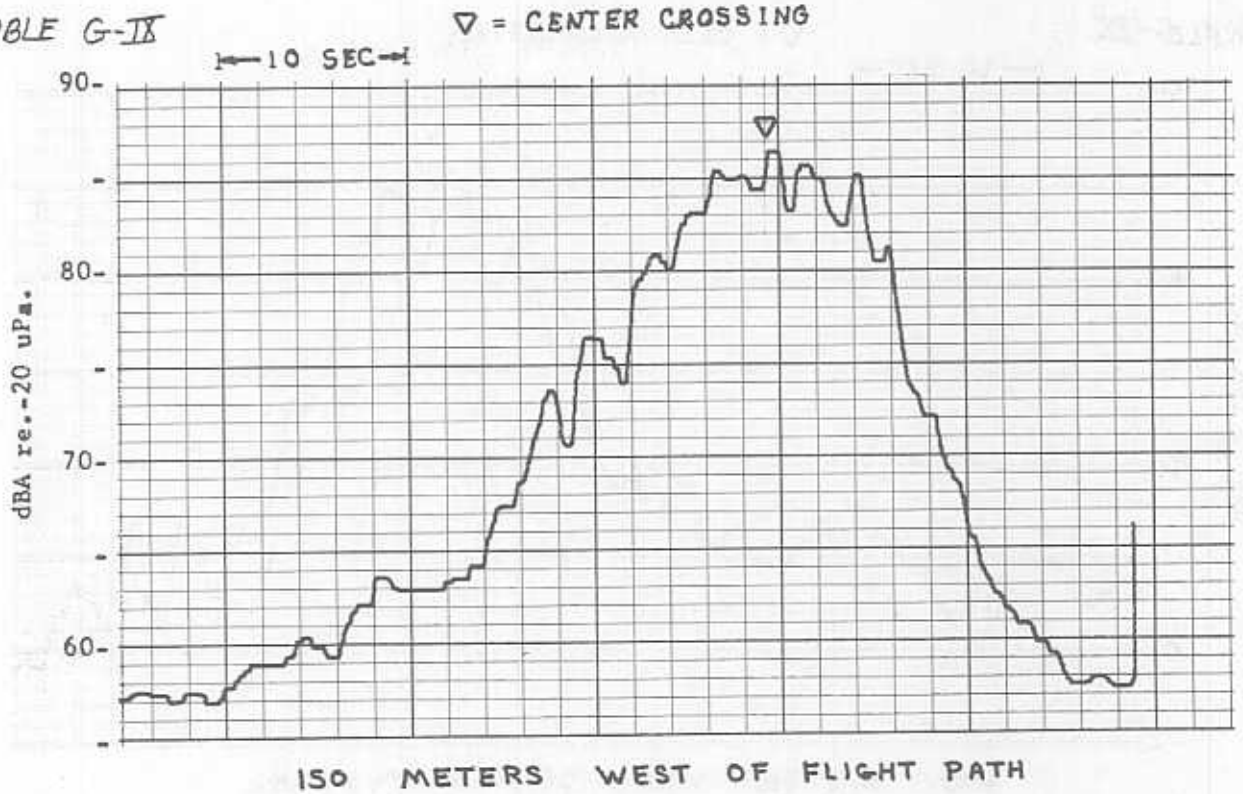
TABLE G-IX

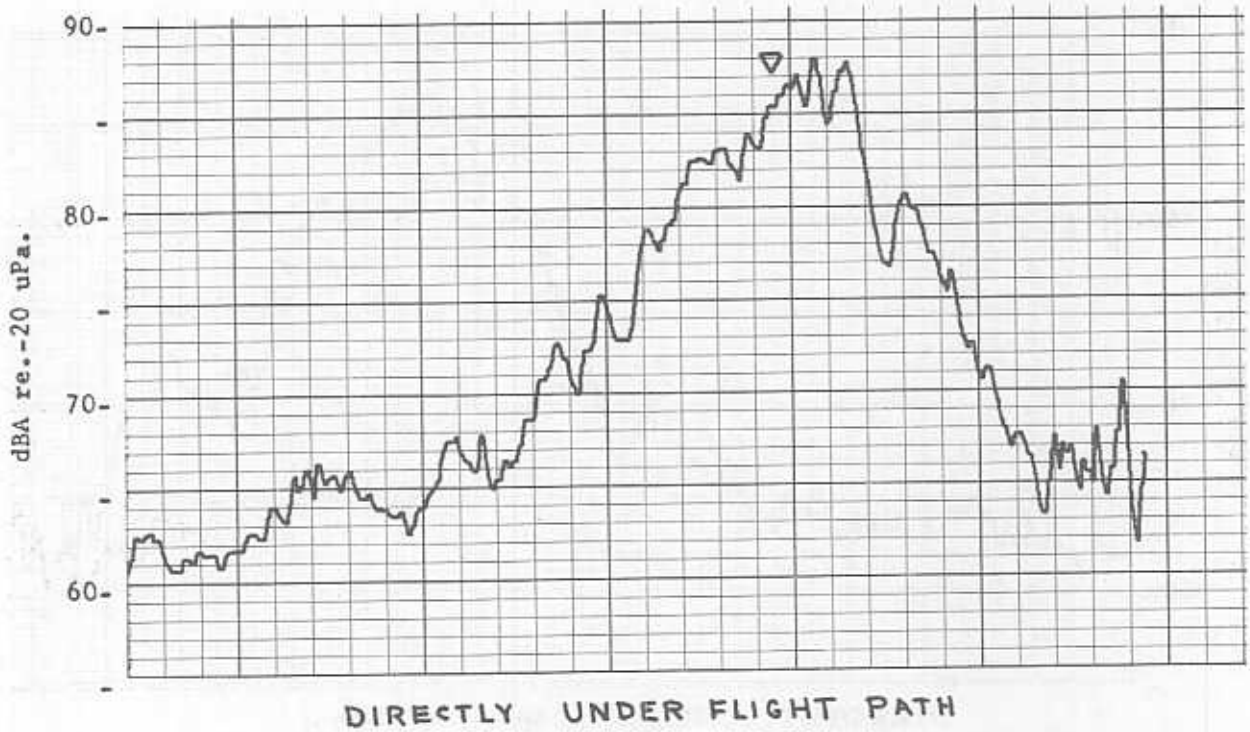




NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
6° APPROACH RUN 51

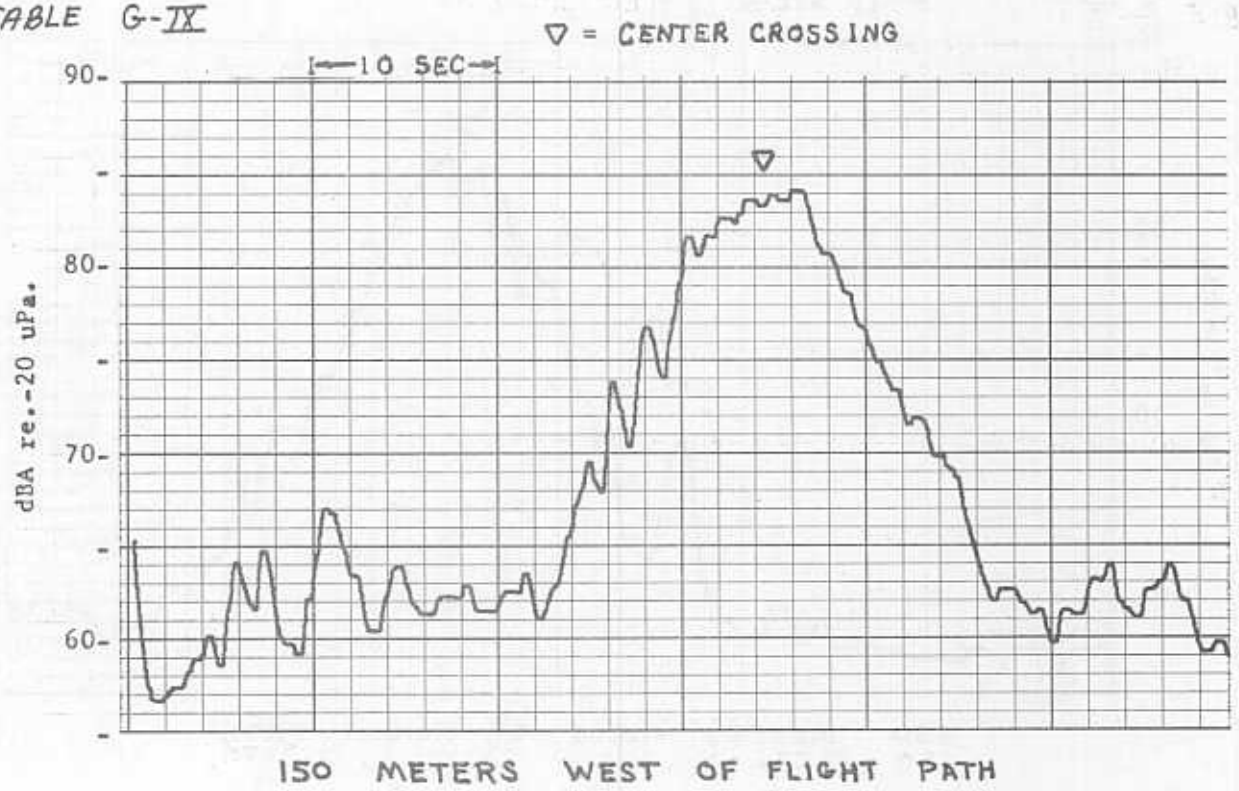
TABLE G-IX

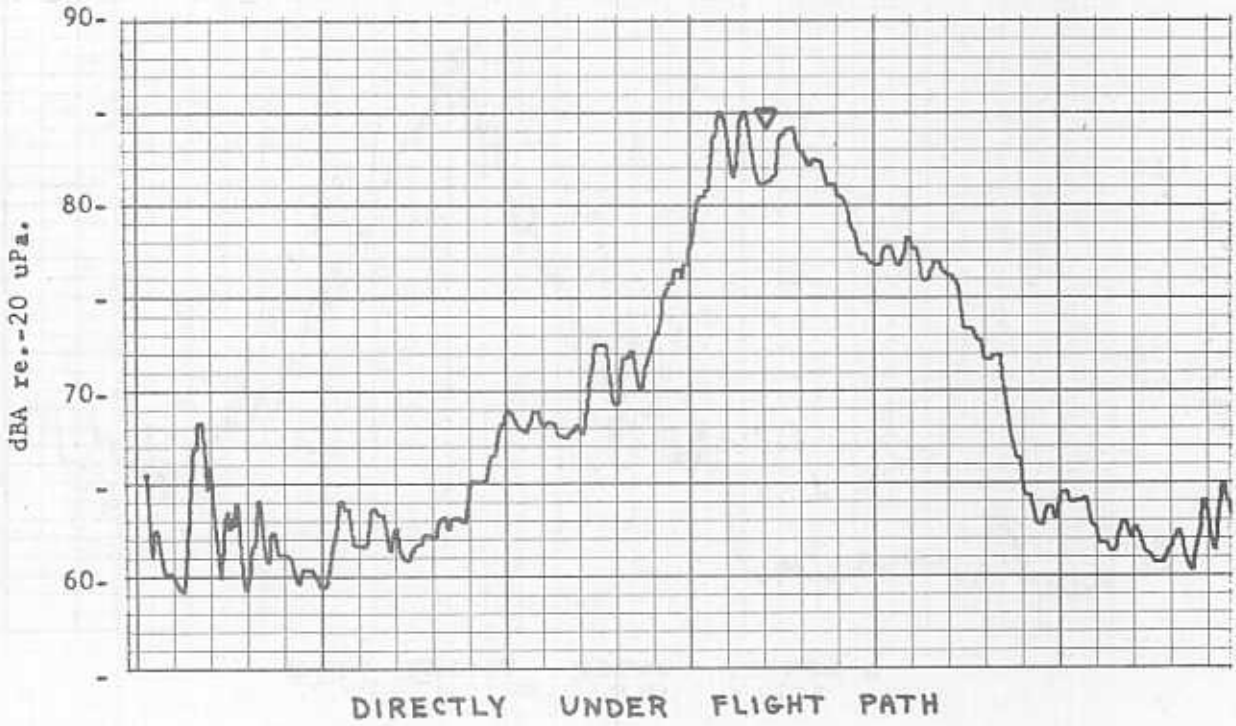




NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
9° APPROACH RUN 44

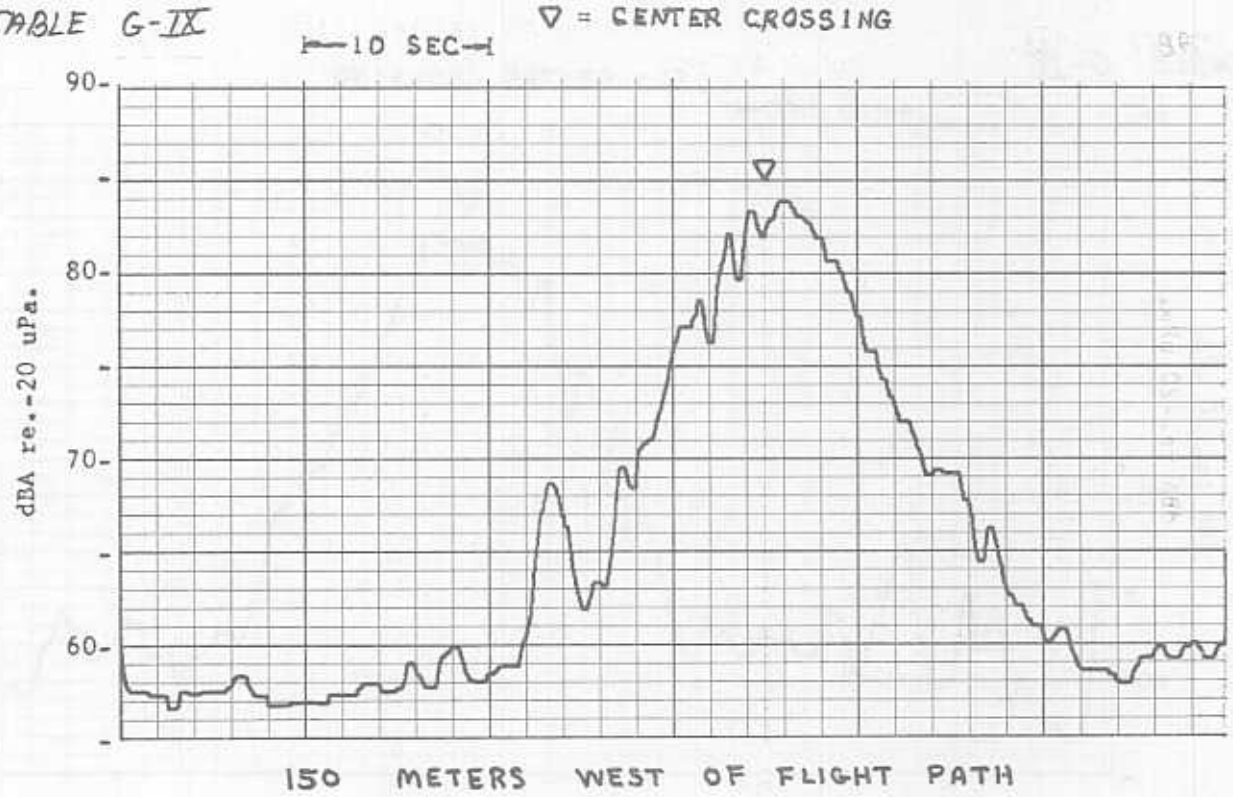
TABLE G-IX

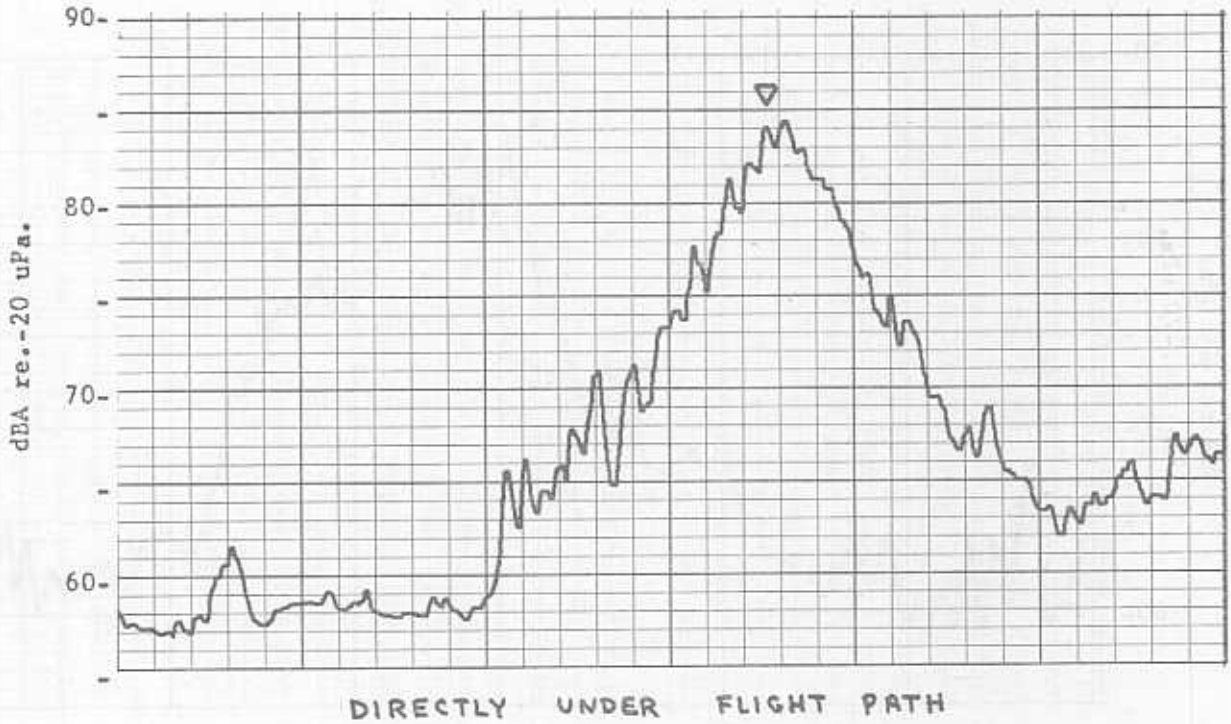




NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
60 KTS LEVEL FLYOVER RUN 50

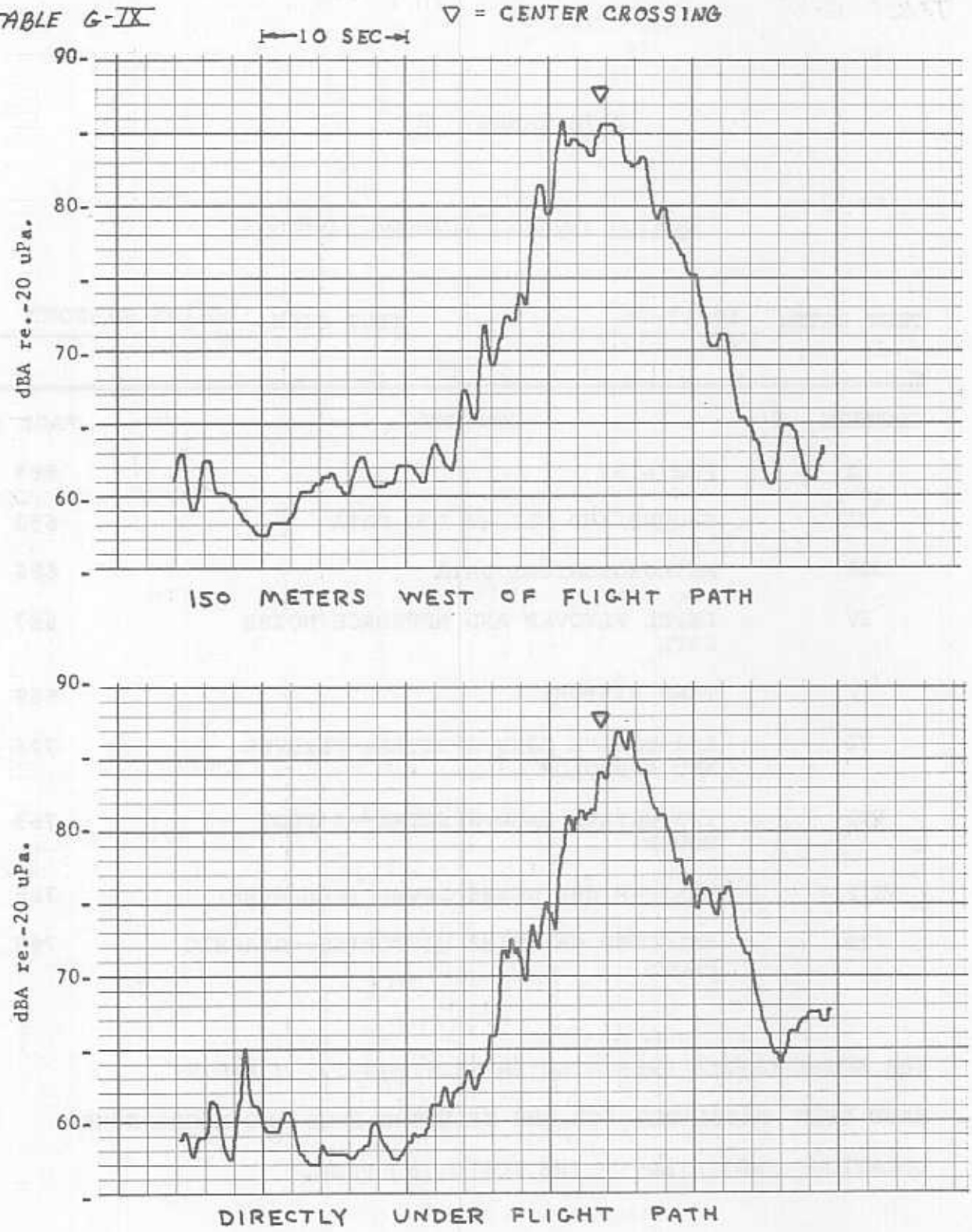
TABLE G-IX





NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
85 KTS LEVEL FLYOVER RUN 55

TABLE G-IX



NOISE LEVEL TIME HISTORIES
SIKORSKY S-64 HELICOPTER
LEVEL FLYOVER - 95 KTS RUN 68

DATA TABLE H

Boeing Vertol "Chinook" (CH-47C)

TEST DATE: 10-13-76 TEST SITE: DULLES AIRPORT

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THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE H-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION		MICROPHONE LOCATION			
			WEST		EAST	
			150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
12	6° Approach	60 Kts	X		X	X
17	Level Flyover	60 Kts			X	
18	↓	↓			X	
20	9° Approach	60 Kts			X	
22	Level Flyover	100 Kts	X		X	X
23		↓	X		X	X
24		141 Kts	X	X	X	X
25			X	X	X	X
26			X	X	X	X
27		↓	X	X	X	X
28		150 Kts	X		X	X
29		↓	X		X	X
30		126 Kts			X	
31		↓			X	
35	3° Approach	60 Kts			X	
	Microphone Locations		Over Transpo Site Surface	Over Plywood	Over Transpo Site Surface	Over Transp Site Surfac

GENERAL COMMENTS

- The weather conditions during the test were excellent with very low winds and clear and sunny skies.
- Because the "Chinook's" gross weight during testing was greatly effected by its rate of fuel consumption, a table has been inserted which provides a log of the gross weight as a function of time.
- No EPNL levels were calculated for the centerline microphones of run 22 and 23 because the microphone gains were set such that the lower limit of the dynamic range of the data recording system was not low enough to include the 10 dB down points necessary to calculate the EPNL levels.
- During the 5 foot hover portion of the test, the down-wash of the "Chinook" was so strong that it knocked over both the East and West 246 feet (75 meter) sideline microphones. As a result, no data was obtained at these locations.

TABLE H-II Ground and Flight Log Data

Helicopter (Model): Boeing Vertol CH-47C "Chinook" Registration Number: Test Date: Oct. 13, 1976

	Run	Time	Target Conditions: Type	Velocity	Altitude over MSL	Actual Conditions: dBA *	Heading	Air Speed	Rate of Descent	MP or Torque	Altitude over MSL	RPM	OAT	Ground Weather (10 ft.): Temp	RH	Wind Speed	Wind Direction	Comments
	1	11:05	Hover	0	5 ft.	↑ No Readings	0° N	0	0	56%	5 ft	245	12°C					good run
**	2	11:06	↓	↓	↓	↓	0° N	↓	↓	↓	↓	↓	↓					Possible interference at very end of run.
	3	11:07					45°						13					
	4	11:08					90° E											
	5	11:09					135°											
	6	11:10					180° S											
	7	11:12					225°											
	8	11:13					270° W											
	9	11:15					315°											
	10	11:16				↓ No Readings	0° N	↓	↓	↓								
	11	11:40	6° App.	60 kts	400 ft.	96.0	S	60 kts	600 ft/min	26%	400 ft.	245	12°C					Abort
	12	11:44	↓	↓	↓	96.0	↓	↓	↓	26	↓	↓	↓					
655	13	11:50				98.5				28								
	14	11:54				94.5			500 ft/min	28								
	15	11:59	Hover	0	500 ft	92.5	180° S	0	0	64%	500 ft.	245	13°C					
	16	11:59.5	↓	↓	↓	89.0	90° E	↓	↓	60	↓	↓	↓					
	17	12:01	Level Flyover	60 kts.	500 ft.	90.0	S	60 kts	0	42%	500 ft.	245	13°C					
	18	12:05	↓	↓	↓	90.0	↓	↓	↓	40	↓	↓	↓					
	19	12:10	9° App.	60 kts	400 ft.	93.0	S	60 kts	800 ft/min	24%	400 ft.	245	14°C					
	20	12:14	↓	↓	↓	95.8	↓	↓	900	↓	↓	↓	↓					
	21	12:17				95.0			900				16°C					
	22	12:24	Level Flyover	100 k	500 ft.	89.0	S	100 kts	0	42%	500 ft.	245	15°C					
	23	12:26	↓	↓	↓	82.5	↓	↓	↓	↓	↓	↓	↓					

* No Sound Level Meter Readings for the hover test (Runs 1-10) because the downwash of the big "Chinook" made it impossible to take readings at the standard location - 100 ft North of the hover position. In addition, the downwash also knocked over the 250 ft. microphones for runs 2-10.

**

TABLE H-II Ground and Flight Log Data

Helicopter Model: Boeing Vertol CH-47 C "Chinook" Registration Number: Test Date: Oct. 13, 1976

Run	Time	Target Conditions: Type	Target Conditions: Velocity	Target Conditions: Altitude over Mics.	Actual Conditions: ΔB A	Actual Conditions: Heading	Actual Conditions: Air Speed	Actual Conditions: Rate of Decent	Actual Conditions: M% or Torque	Actual Conditions: Altitude over Mics.	Actual Conditions: RPM	Actual Conditions: OAT	Ground Weather (10 ft.): Temp	Ground Weather (10 ft.): RH	Ground Weather (10 ft.): Wind Speed	Ground Weather (10 ft.): Wind Direction	Comments
24	12:30	Level Flyover	141 kts.	500 ft.	90.0	S	141 kts	0	58%	500 ft.	245	15°C					
25	12:34				92.5				64			16°C					
		Stopped for Concord Flight and Re-fuel of the CH-47 C.															
26	1:28				89.0				66			19°C					
27	1:31		↓		82.5		↓		66			↓					
28	1:35		150 kts		89.0		150 kts		72			20°C					
29	1:39		↓		89.3		↓		73			↓					
30	1:42		126 kts.		80.0		126 kts.		54			20°C					
31	1:46	↓	↓	↓	78.0		↓	↓	54	↓	↓	↓					
32	1:51	3° App.	60 kts.	400 ft.	85.6		60 kts.	250 ft/min	36%	400 ft.	245	20°C					
33	1:53				—			300	34%								Abort
34	1:56				86.5												
35	2:00	↓	↓	↓	87.0		↓	↓	↓	↓	↓	↓					

BOEING VERTOL "CHINOOK" CH-47C

LOG OF GROSS WEIGHT vs. TIME

Time	Run #	Fuel (lbs.)	Total Gross Weight
11:00	1	6900	41,000
11:15	9	6100	40,200
11:38	11	5300	39,400
11:50	13	4800	38,900
12:05	18	4300	38,400
12:21	22	3700	37,800
12:32	25	3300	37,400
----------	REFUEL	----------	
1:25	26	6900	41,000
1:36	28	6300	40,400
1:42	30	6000	40,100
1:56	34	5500	39,600

TABLE H-III

METEOROLOGICAL DATA

DULLES INTERNATIONAL AIRPORT

OCTOBER 13, 1976

TIME (Hours)	TEMP. (°F)	BAR. PRESS. (mmHg)	REL. HOM. (%)	WIND SPEED (mph)	WIND DIRECTION (Degrees)	REMARKS
1100	57		64	3-4	190	Sky-Clear
1115	58		61	9-11	170	
1130	60		60	3-7	170	
1145	61		56	4-6	190	
1200	62		55	4-5	180	
1215	64	754	50	4-5	180	
1230	64		50	3-6	170	
1245	66		48	5-6	200	
1300	68		44	5-6	180	
1315	68		42	4-6	190	
1330	70		40	5-7	190	
1345	74		37	5-7	190	
1400	78	748	35	4-7	180	
1415	79		34	4-5	180	
1430	79		34	7-8	210	
1445	79		33	9-10	200	
1500	80		33	11-14	200	
1515	80		32	7-12	210	
1530	80		32	9-16	190	

TABLE H-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

VERTOL CH-47 C

OCTOBER 13, 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
12	103.8	91.1	96.8	99.4	104.0	105.8	85.0	29.5	29.5	1.8
22	97.8	83.7	89.3	96.1	97.5	98.0	79.7	19.5	24.5	1.3
23	97.3	80.9	87.8	95.6	95.5	96.3	77.6	25.0	27.0	1.1
24	104.8	89.7	97.6	104.7	105.0	105.4	86.5	17.5	18.0	1.7
25	105.8	93.7	100.6	106.3	107.8	108.4	89.4	12.5	13.0	1.3
26	106.1	91.2	98.2	104.8	106.4	107.3	87.4	17.0	16.0	1.2
27	106.5	94.2	99.5	106.5	107.7	108.5	89.5	15.0	16.5	1.1
28	106.5	95.5	103.4	109.7	111.0	111.0	91.5	8.5	9.0	.0
29	107.0	96.1	103.2	109.7	110.9	110.9	92.4	8.5	9.5	.0

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
12	103.1	86.4	91.8	98.5	99.6	101.1	81.1	54.0	62.0	1.5
22	100.6	86.0	90.7	97.3	98.6	100.4	81.0	25.5	28.5	1.8
23	97.0	79.6	88.7	96.7	95.7	95.7	76.7	26.0	26.5	.0
24	103.9	89.9	97.5	103.9	104.3	104.3	85.5	21.0	19.5	.0
25	104.0	91.4	99.4	105.4	105.5	105.8	86.7	16.0	13.0	1.7
26	106.0	93.1	100.0	106.7	108.1	108.1	89.0	11.5	12.0	.0
27	107.3	95.6	102.0	107.9	110.6	110.6	91.4	10.0	10.5	.0
28	109.0	99.5	105.8	110.3	113.3	114.5	95.7	6.0	7.0	1.2
29	109.1	98.7	105.4	109.9	112.6	112.6	95.7	7.0	8.0	.0

TABLE H-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

VERTOL CH-47 C

OCTOBER 13, 1976

CENTERLINE MICROPHONE (SOFT SITE)
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
12	107.6	95.8	102.3	105.7	108.6	108._	91.8	15.5	21.0	.0
17	105.6	90.0	96.0	100.8	104.1	104.1	85.0	36.5	38.5	.0
18	106.9	91.5	97.0	100.8	105.0	105.0	86.2	42.0	44.5	.0
20	107.5	95.1	101.8	105.3	108.2	108.2	90.7	18.0	23.0	.0
22	-----	88.6	93.1	97.8	101.5	101.5	83.2	22.0	----	.0
23	-----	84.2	91.2	98.1	99.7	99.7	79.6	26.5	----	.0
24	106.5	91.1	99.1	105.6	106.1	106.1	87.3	20.0	20.5	.0
25	106.8	92.7	100.7	106.5	108.1	108.1	88.0	17.5	18.0	.0
26	106.4	92.9	100.9	106.1	107.4	107.4	88.1	17.0	17.0	.0
27	108.9	96.0	103.3	108.6	110.0	111.1	91.7	14.0	14.0	1.4
28	109.0	97.6	104.9	109.8	111.4	111.4	92.7	13.0	13.5	.0
29	111.3	99.3	106.6	111.1	113.5	113.5	95.4	13.0	13.5	.0
30	103.5	88.8	98.0	104.9	105.1	105.1	84.4	16.5	16.5	.0
31	104.2	87.9	96.3	103.3	103.9	103.9	85.4	17.0	18.5	.0
35	108.1	94.4	100.8	104.6	107.6	107.6	90.6	19.0	46.0	.0

CENTERLINE MICROPHONE (HARD SITE)
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
24	106.8	90.7	98.9	106.3	106.0	106.0	87.6	20.5	20.5	.0
25	107.5	94.4	103.1	108.3	109.2	109.2	89.0	17.5	18.0	.0
26	106.6	92.6	100.8	106.3	107.5	108.1	88.2	17.5	17.5	1.1
27	108.7	95.2	103.1	109.4	110.6	110.6	91.8	14.0	14.0	.0

---- INSUFFICIENT DATA - 10 DB DOWN POINTS NOT DISCERNIBLE ABOVE AMBIENT LEVELS

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 12, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	75.2	83.0	92.3	91.6	92.8	16.4	7.8
3	77.1	84.3	92.1	92.8	92.8	15.7	7.2
5	80.8	85.7	92.3	94.1	95.1	13.3	4.9
7	80.9	86.2	92.5	94.7	95.8	13.8	5.3
9	77.7	84.7	92.4	93.1	94.3	15.4	7.0
11	75.8	83.9	91.9	92.1	92.1	16.3	8.1
13	75.7	82.7	92.2	91.0	91.0	15.3	7.0
15	79.3	84.3	92.8	92.8	92.8	13.5	5.0
17	83.0	88.2	94.4	96.2	96.2	13.2	5.2
19	81.9	88.2	94.6	96.3	97.6	14.4	6.3
21	82.4	87.4	94.1	95.7	97.0	13.3	5.0
23	81.6	86.7	94.2	94.8	96.0	13.2	5.1
25	82.4	87.0	94.7	95.9	97.5	13.5	4.6
27	84.6	88.6	94.2	97.0	98.3	12.4	4.0
29	85.9	90.7	94.7	98.4	98.4	12.5	4.8
31	86.4	91.3	95.2	98.4	100.3	12.0	4.9
33	86.0	91.2	95.8	98.5	100.9	12.5	5.2
35	87.2	92.1	95.4	99.6	99.6	12.4	4.9
37	87.0	91.5	95.3	99.1	99.1	12.1	4.5
39	88.4	93.2	96.6	100.6	100.6	12.2	4.8
41	90.7	96.0	99.0	103.7	105.7	13.0	5.3
42	91.1	96.8	99.4	104.0	105.8	12.9	5.7
44	88.1	94.6	98.3	101.4	101.4	13.3	6.5
46	86.0	92.7	98.1	100.2	100.2	14.2	6.7
48	84.6	91.4	97.7	99.1	99.1	14.5	6.8
O.H. 50 → 51	84.0	90.8	97.2	98.7	98.7	14.7	6.8
52	84.8	91.1	96.7	99.1	99.1	14.3	6.3
54	84.5	90.2	95.7	98.1	98.1	13.6	5.7
56	85.2	91.3	95.6	99.1	99.1	13.9	6.1
58	85.4	91.2	94.9	99.1	99.1	13.7	5.8
60	82.9	88.4	93.1	96.5	97.5	13.6	5.5
62	81.4	86.8	91.4	94.8	94.8	13.4	5.4
64	81.2	86.3	91.3	94.7	95.9	13.5	5.1
66	79.7	85.2	90.8	93.3	94.4	13.6	5.5
68	76.7	82.2	88.1	90.3	91.7	13.6	5.5
70	73.8	79.7	86.7	88.2	89.4	14.4	5.9
72	71.5	78.0	85.8	86.3	86.3	14.8	6.5

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 22, 100 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	64.8	77.5	88.0	85.0	85.0	20.2	12.7
	3	66.0	78.6	89.0	86.1	86.1	20.1	12.6
	5	67.6	79.5	89.7	86.9	86.9	19.3	11.9
	7	70.4	80.7	90.8	88.4	88.4	18.0	10.3
	9	71.4	81.6	91.6	89.4	89.4	18.0	10.2
	11	71.7	82.1	92.1	89.5	91.2	17.8	10.4
	13	71.2	81.7	92.0	89.1	89.1	17.9	10.5
	15	71.0	81.4	91.8	89.0	89.0	18.0	10.4
	17	71.6	82.1	92.5	89.8	89.8	18.2	10.5
	19	75.6	84.4	93.7	91.9	91.9	16.3	8.8
	21	77.5	85.5	94.5	93.2	93.2	15.7	8.0
	23	77.6	85.4	94.5	93.3	94.3	15.7	7.8
	25	78.4	85.4	94.3	93.4	93.4	15.0	7.0
	27	79.5	86.3	94.2	94.1	95.4	14.6	6.8
	29	77.6	85.2	94.0	93.2	94.3	15.6	7.6
	31	79.2	87.0	94.9	94.4	94.4	15.2	7.8
	33	82.3	88.7	94.8	96.8	98.0	14.5	6.4
	35	83.7	89.3	93.9	97.4	97.4	13.7	5.6
	37	82.2	88.1	94.1	95.8	95.8	13.6	5.9
	39	80.8	88.3	95.2	95.8	95.8	15.0	7.5
O.H. →	41	81.2	88.9	96.1	96.4	97.6	15.2	7.7
	43	79.2	86.7	95.2	94.1	95.3	14.9	7.5
	45	78.3	84.8	93.3	92.5	93.8	14.2	6.5
	47	80.0	85.4	91.7	93.0	93.0	13.0	5.4
	49	80.1	85.4	91.2	92.6	92.6	12.5	5.3
	51	78.5	83.9	90.0	91.1	91.1	12.6	5.4
	53	76.9	82.2	88.8	89.5	89.5	12.6	5.3
	55	75.1	80.4	87.2	87.8	89.0	12.7	5.3
	57	73.2	78.4	85.6	86.3	86.3	13.1	5.2
	59	72.6	78.0	84.5	86.0	87.8	13.4	5.4
	61	71.3	77.1	84.0	84.9	84.9	13.6	5.8

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 23, 100 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.4	75.0	85.6	82.5	82.5	21.1	13.6
3	63.1	76.2	86.7	83.3	83.3	20.2	13.1
5	65.1	77.6	88.2	84.7	84.7	19.6	12.5
7	67.0	79.3	89.6	86.3	86.3	19.3	12.3
9	68.2	80.6	91.2	87.6	87.6	19.4	12.4
11	70.4	82.3	92.7	89.3	89.3	18.9	11.9
13	72.7	83.9	94.2	91.0	91.0	18.3	11.2
15	74.1	85.3	95.5	92.1	92.1	18.0	11.2
17	73.9	84.8	95.3	92.0	92.0	18.1	10.9
19	73.3	83.2	93.8	90.7	90.7	17.4	9.9
21	74.2	83.6	93.5	91.3	91.3	17.1	9.4
23	73.7	83.7	93.6	91.1	91.1	17.4	10.0
25	72.6	83.3	93.9	90.9	90.9	18.3	10.7
27	72.7	83.2	94.2	91.1	91.1	18.4	10.5
29	74.1	83.4	94.4	92.0	93.2	17.9	9.3
31	76.2	84.7	95.0	93.2	93.2	17.0	8.5
33	76.6	85.5	94.8	93.3	94.8	16.7	8.9
35	78.5	86.5	94.7	94.2	95.5	15.7	8.0
37	80.0	86.8	93.4	94.4	94.4	14.4	6.8
39	80.8	87.6	93.5	95.4	95.4	14.6	6.8
41	80.1	87.8	94.3	95.1	95.1	15.0	7.7
O.H. 43 → 44	79.9	87.7	94.9	95.2	95.2	15.3	7.8
45	80.4	87.6	95.5	95.2	96.3	14.8	7.2
47	80.1	86.3	94.2	93.9	95.3	13.8	6.2
49	80.4	86.0	92.5	93.8	94.9	13.4	5.6
51	80.4	85.3	90.9	93.2	93.2	12.8	4.9
53	79.6	84.3	89.3	92.0	92.0	12.4	4.7
55	77.7	82.7	89.1	90.3	91.6	12.6	5.0
57	75.6	80.9	88.0	89.0	90.1	13.4	5.3
59	73.0	78.9	85.8	86.9	86.9	13.9	5.9
61	70.3	76.6	83.7	84.3	85.7	14.0	6.3
63	68.9	75.6	82.4	83.4	83.4	14.5	6.7
65	67.7	75.0	81.7	83.1	83.1	15.4	7.3
67	66.4	74.2	80.9	82.6	82.6	16.2	7.8

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	74.8	83.9	92.2	91.6	91.6	16.8	9.1
	2	77.3	85.9	93.8	93.5	93.5	16.2	8.6
	3	78.1	86.7	94.6	94.6	94.6	16.5	8.6
	4	78.6	87.0	95.1	95.1	95.1	16.5	8.4
	5	79.0	86.8	95.2	95.8	95.8	16.8	7.8
	6	79.3	87.1	95.5	96.4	96.4	17.1	7.8
	7	79.6	87.7	96.2	96.8	96.8	17.2	8.1
	8	79.7	88.5	96.8	97.0	97.0	17.3	8.8
	9	80.9	89.7	97.7	97.8	97.8	16.9	8.8
	10	82.5	91.3	98.6	99.2	99.2	16.7	8.8
	11	84.1	92.7	99.7	100.9	100.9	16.8	8.6
	12	85.1	93.6	100.5	101.9	101.9	16.8	8.5
	13	86.6	94.6	101.3	102.8	102.8	16.2	8.0
	14	87.3	95.4	101.9	103.4	103.4	16.1	8.1
	15	87.5	95.5	102.3	104.0	104.0	16.5	8.0
	16	88.1	95.8	102.5	104.0	104.0	15.9	7.7
	17	88.3	96.0	102.8	104.2	104.2	15.9	7.7
	18	89.3	97.1	103.8	104.5	104.5	15.2	7.8
	19	89.6	97.6	104.5	105.0	105.0	15.4	8.0
	20	89.4	97.6	104.7	105.0	105.0	15.6	8.2
	21	88.4	96.6	104.2	104.4	104.4	16.0	8.2
	22	88.2	96.1	103.8	103.8	105.4	15.6	7.9
	23	88.1	95.6	103.8	103.7	105.4	15.6	7.5
	24	87.8	95.6	104.0	103.5	104.9	15.7	7.8
	25	88.7	96.4	104.3	103.8	105.0	15.1	7.7
	26	88.9	96.4	104.1	103.8	105.1	14.9	7.5
	27	89.7	96.2	103.5	103.5	103.5	13.8	6.5
	28	88.4	94.6	102.5	102.2	103.7	13.8	6.2
	29	87.4	93.3	101.5	100.6	102.5	13.2	5.9
	30	84.9	91.7	100.5	99.0	100.3	14.1	6.8
	31	84.3	91.4	99.8	98.6	98.6	14.3	7.1
	32	84.8	92.4	99.2	99.7	99.7	14.9	7.6
O.M. →	33	85.1	92.7	98.7	100.2	100.2	15.1	7.6
	34	85.2	92.6	98.2	100.0	100.0	14.8	7.4
	35	84.5	91.4	97.3	99.1	99.1	14.6	6.9
	36	83.8	90.3	95.7	98.0	98.0	14.2	6.5
	37	83.4	89.3	93.8	97.1	97.1	13.7	5.9
	38	82.8	88.4	92.4	96.1	96.1	13.3	5.6
	39	82.5	87.7	91.3	95.1	95.1	12.6	5.2
	40	81.7	86.4	89.7	93.8	93.8	12.1	4.7
	41	81.0	85.9	88.6	93.2	93.2	12.2	4.9
	42	79.6	84.6	87.9	92.3	92.3	12.7	5.0

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	77.1	85.9	94.1	94.0	94.0	16.9	8.8
2	77.0	85.8	94.4	94.2	94.2	17.2	8.8
3	78.4	86.6	95.2	95.1	95.1	16.7	8.2
4	82.1	89.5	96.4	97.7	97.7	15.6	7.4
5	83.4	90.9	98.0	99.3	99.3	15.9	7.5
6	84.6	92.6	99.9	101.1	101.1	16.5	8.0
7	85.6	94.5	101.9	102.7	102.7	17.1	8.9
8	89.4	96.8	103.6	105.0	105.0	15.6	7.4
9	91.9	98.8	104.8	106.5	106.5	14.6	6.9
10	93.7	100.6	105.9	107.8	107.8	14.1	6.9
11	93.3	100.6	106.0	107.7	107.7	14.4	7.3
12	92.4	100.4	106.3	107.6	107.6	15.2	8.0
13	90.3	99.1	105.9	106.3	106.3	16.0	8.8
14	92.1	99.6	106.1	107.1	108.2	15.0	7.5
15	92.9	99.4	105.8	107.1	108.4	14.2	6.5
16	92.8	99.2	105.6	106.8	108.3	14.0	6.4
17	90.2	97.3	104.6	104.7	106.2	14.5	7.1
18	88.2	95.8	103.6	103.3	104.7	15.1	7.6
19	86.6	94.6	102.9	102.1	103.6	15.5	8.0
20	87.7	94.7	102.8	102.5	102.5	14.8	7.0
21	87.2	94.0	102.4	102.2	103.7	15.0	6.8
22	86.8	93.0	101.6	101.1	102.8	14.3	6.2
23	85.3	91.7	100.4	99.7	99.7	14.4	6.4
24	84.2	91.0	99.5	98.1	98.1	13.9	6.8
25	84.1	91.3	98.6	99.0	99.0	14.9	7.2
O.H.→26	84.6	92.0	98.2	99.8	99.8	15.2	7.4
27	84.6	92.0	97.7	99.9	99.9	15.3	7.4
28	84.2	91.2	97.0	99.0	99.0	14.8	7.0
29	83.6	89.8	95.7	97.9	97.9	14.3	6.2
30	83.5	89.2	94.3	97.1	97.1	13.6	5.7
31	83.6	89.0	93.3	96.8	96.8	13.2	5.4
32	83.4	88.5	91.9	96.1	96.1	12.7	5.1

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	73.3	83.5	90.5	93.0	93.0	19.7	10.2
2	74.1	84.6	92.7	93.8	93.8	19.7	10.5
3	74.6	85.4	94.5	95.2	95.2	20.6	10.8
4	77.5	87.1	96.2	96.7	96.7	19.2	9.6
5	81.4	89.5	97.9	99.0	99.0	17.6	8.1
6	84.1	92.3	99.9	101.4	101.4	17.3	8.2
7	86.0	94.6	101.9	103.2	103.2	17.2	8.6
8	87.0	95.7	103.0	104.1	104.1	17.1	8.7
9	87.3	96.3	103.6	104.6	104.6	17.3	9.0
10	87.2	96.3	103.7	104.6	104.6	17.4	9.1
11	87.8	96.5	103.7	105.0	105.0	17.2	8.7
12	89.3	96.6	103.8	106.1	106.1	16.8	7.3
13	89.9	96.9	103.9	106.2	106.2	16.3	7.0
14	91.1	97.8	104.2	106.4	106.4	15.3	6.7
15	91.2	98.2	104.5	106.1	107.3	14.9	7.0
16	91.0	98.2	104.7	106.3	106.3	15.3	7.2
17	89.7	97.7	104.8	105.6	105.6	15.9	8.0
18	88.9	97.0	104.6	105.2	106.9	16.3	8.1
19	88.9	96.5	104.3	104.8	106.1	15.9	7.6
20	88.3	95.5	103.9	104.0	105.4	15.7	7.2
21	88.0	95.3	104.0	103.8	105.5	15.8	7.3
22	88.2	95.1	104.1	104.0	105.5	15.8	6.9
23	88.2	95.1	104.1	104.1	105.4	15.9	6.9
24	88.6	95.3	103.7	104.0	104.0	15.4	6.7
25	88.7	95.2	103.3	103.9	105.2	15.2	6.5
26	88.2	94.4	102.3	102.7	104.4	14.5	6.2
27	86.3	92.5	100.8	100.7	101.8	14.4	6.2
28	84.2	90.9	99.4	98.7	98.7	14.5	6.7
29	84.0	91.4	98.7	98.9	98.9	14.9	7.4
30	84.3	91.9	98.2	99.5	99.5	15.2	7.6
O.H. → 31	84.6	92.3	97.9	100.0	100.0	15.4	7.7
32	84.2	91.8	97.5	99.7	99.7	15.5	7.6
33	83.5	90.8	96.8	99.0	99.0	15.5	7.3
34	82.9	89.3	95.3	97.9	97.9	15.0	6.4
35	82.8	88.8	93.6	97.3	97.3	14.5	6.0
36	82.4	88.2	92.1	96.6	96.6	14.2	5.8
37	82.2	87.9	91.5	96.0	96.0	13.8	5.7
38	81.4	87.2	90.6	95.3	95.3	13.9	5.8

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	76.1	84.6	87.5	93.3	93.3	17.2	8.5
2	76.3	85.0	89.3	93.8	93.8	17.5	8.7
3	77.1	86.2	91.4	94.9	94.9	17.8	9.1
4	79.2	88.7	94.2	96.7	96.7	17.5	9.5
5	84.8	93.7	98.3	100.7	100.7	15.9	8.9
6	86.7	95.4	100.3	102.5	102.5	15.8	8.7
7	86.9	95.4	100.6	102.7	102.7	15.8	8.5
8	85.3	93.6	99.9	101.7	101.7	16.4	8.3
9	84.4	92.5	99.6	101.2	101.2	16.8	8.1
10	84.9	92.5	99.9	101.8	101.8	16.9	7.6
11	86.0	93.0	100.4	102.8	102.8	16.8	7.0
12	86.9	94.0	101.0	103.6	103.6	16.7	7.1
13	86.7	93.9	101.1	103.7	103.7	17.0	7.2
14	86.2	93.3	100.6	103.1	103.1	16.9	7.1
15	85.5	92.1	99.6	102.3	102.3	16.8	6.6
16	84.9	91.5	99.3	101.7	102.8	16.8	6.6
17	86.6	93.4	101.2	103.1	103.1	16.5	6.8
18	88.0	95.9	103.3	104.8	104.8	16.8	7.9
19	90.6	98.1	104.8	106.4	106.4	15.8	7.5
20	91.5	98.8	105.7	107.1	107.1	15.6	7.3
21	92.3	99.4	106.1	107.7	107.7	15.4	7.1
22	92.5	99.4	106.5	107.4	107.4	14.9	6.9
23	93.0	99.5	106.4	107.4	108.5	14.4	6.5
24	93.5	99.2	106.2	107.3	108.3	13.8	5.7
25	93.5	98.9	105.6	107.1	108.5	13.6	5.4
26	94.2	99.5	105.1	107.0	107.0	12.8	5.3
27	93.4	98.7	104.2	105.8	105.8	12.4	5.3
28	91.8	97.1	103.0	104.7	104.7	12.9	5.3
29	87.3	93.0	101.4	101.9	101.9	14.6	5.7
30	84.9	92.0	100.0	99.7	99.7	14.8	7.1
31	85.4	92.8	99.2	100.7	100.7	15.3	7.4
32	86.0	93.5	98.8	101.4	101.4	15.4	7.5
O.H. → 33	85.5	93.1	98.3	101.1	101.1	15.6	7.6
34	84.3	91.7	97.1	99.9	99.9	15.6	7.4
35	83.6	90.6	95.5	98.8	98.8	15.2	7.0
36	83.5	90.1	94.0	98.3	98.3	14.8	6.6
37	82.9	89.3	92.6	97.3	97.3	14.4	6.4
38	81.9	87.9	90.9	96.1	96.1	14.2	6.0
39	80.6	86.4	89.1	94.6	94.6	14.0	5.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 28, 150 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	78.4	87.9	96.2	97.2	97.2	18.8	9.5
	2	79.5	89.3	97.8	98.4	98.4	18.9	9.8
	3	81.4	91.1	99.6	99.8	99.8	18.4	9.7
	4	83.6	92.9	101.6	102.2	102.2	18.6	9.3
	5	85.4	95.1	103.5	104.0	104.0	18.6	9.7
	6	88.4	97.4	105.2	105.7	105.7	17.3	9.0
	7	91.0	99.7	106.5	107.0	107.0	16.0	8.7
	8	93.2	101.5	107.7	108.8	108.8	15.6	8.3
	9	95.4	103.2	109.2	110.8	110.8	15.4	7.8
	10	95.5	103.4	109.7	111.0	111.0	15.5	7.9
	11	94.7	102.7	109.4	110.3	110.3	15.6	8.0
	12	92.9	100.9	108.2	108.4	108.4	15.5	8.0
	13	91.7	99.4	107.2	107.4	107.4	15.7	7.7
	14	91.3	98.3	106.2	107.1	107.1	15.8	7.0
	15	90.6	97.5	105.4	106.2	106.2	15.6	6.9
	16	90.4	96.5	104.4	105.0	105.0	14.6	6.1
	17	89.3	95.7	103.9	104.3	104.3	15.0	6.4
	18	88.0	94.9	103.3	103.0	103.0	15.0	6.9
	19	86.9	95.1	102.5	102.6	102.6	15.7	8.2
O.M. →	20	86.1	94.5	101.4	102.1	102.1	16.0	8.4
	21	85.3	93.6	100.1	101.2	101.2	15.9	8.3
	22	84.1	91.8	98.7	99.8	99.8	15.7	7.7
	23	83.2	90.4	96.5	98.5	98.5	15.3	7.2
	24	82.7	89.0	94.0	97.4	98.4	14.7	6.3

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 29, 150 KT. FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	3	77.8	86.8	94.3	96.2	96.2	18.4	9.0
	4	82.1	91.0	98.2	99.3	99.3	17.2	8.9
	5	86.1	94.5	101.7	103.3	103.3	17.2	8.4
	6	88.5	96.9	103.7	105.2	105.2	16.7	8.4
	7	89.5	97.7	104.5	106.0	106.0	16.5	8.2
	8	90.2	98.4	104.9	106.2	106.2	16.0	8.2
	9	91.6	99.1	105.3	107.1	107.1	15.5	7.5
	10	94.1	101.7	107.3	108.5	108.5	14.4	7.6
	11	95.9	102.9	109.0	110.2	110.2	14.3	7.0
	12	96.1	103.2	109.7	110.9	110.9	14.8	7.1
	13	94.9	102.0	109.2	110.4	110.4	15.5	7.1
	14	95.0	101.9	108.4	109.7	109.7	14.7	6.9
	15	94.3	100.9	107.4	108.8	110.1	14.5	6.6
	16	93.7	99.9	106.5	107.7	108.7	14.0	6.2
	17	90.7	97.0	104.8	105.5	105.5	14.8	6.3
	18	89.2	95.1	103.2	103.7	103.7	14.5	5.9
	19	88.2	94.6	102.1	102.7	102.7	14.5	6.4
	20	86.4	93.9	101.1	101.5	101.5	15.1	7.5
O.N.→	21	86.0	93.7	100.5	101.2	101.2	15.2	7.7
	22	85.4	93.1	99.7	100.7	100.7	15.3	7.7
	23	84.6	92.1	98.7	99.8	99.8	15.2	7.5
	24	84.1	91.1	97.2	99.1	99.1	15.0	7.0
	25	83.5	90.1	95.0	98.4	98.4	14.9	6.6

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 12, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	72.2	81.2	87.3	89.4	90.5	17.2	9.0
5	73.8	82.7	88.2	90.6	90.6	16.8	8.9
9	73.3	82.6	88.6	90.8	90.8	17.5	9.3
13	73.3	82.5	88.7	90.9	90.9	17.6	9.2
17	75.1	82.9	87.8	90.8	90.8	15.7	7.8
21	74.6	81.7	86.8	89.4	89.4	14.8	7.1
25	72.6	80.3	86.1	88.6	88.6	16.0	7.7
29	77.2	84.0	88.2	91.5	91.5	14.3	6.8
33	76.8	84.1	88.5	92.0	92.0	15.2	7.3
37	76.2	84.7	90.0	92.6	92.6	16.4	8.5
41	77.1	85.7	90.7	93.6	93.6	16.5	8.6
45	75.1	82.5	87.3	90.4	90.4	15.3	7.4
49	78.2	82.4	87.2	90.7	92.1	12.5	4.2
53	73.1	79.7	87.4	89.0	90.1	15.9	6.6
57	69.8	79.2	88.8	89.0	89.0	19.2	9.4
61	69.2	77.7	87.7	87.6	87.6	18.4	8.5
65	72.1	80.9	90.2	89.8	89.8	17.7	8.8
69	73.7	81.4	89.2	90.5	90.5	16.8	7.7
73	75.0	81.0	88.9	90.5	91.7	15.5	6.0
77	72.9	80.4	88.9	89.8	91.0	16.9	7.5
81	78.2	83.9	90.1	92.7	93.9	14.5	5.7
85	79.3	84.7	91.5	93.8	93.8	14.5	5.4
89	83.1	88.2	93.9	97.0	98.6	13.9	5.1
93	84.2	88.5	93.6	97.0	98.3	12.8	4.3
97	85.4	89.9	94.7	98.6	99.7	13.2	4.5
101	84.5	89.8	94.1	98.3	99.5	13.8	5.3
105	84.7	90.1	95.7	98.3	98.3	13.6	5.4
107	86.4	91.8	98.5	99.6	101.1	13.2	5.4
111	84.7	89.9	96.8	97.6	97.6	12.9	5.2
O.H. 115→118	84.3	89.9	96.2	97.9	97.9	13.6	5.6
119	83.0	88.4	95.4	96.2	96.2	13.2	5.4
123	83.3	88.9	96.1	97.2	98.4	13.9	5.6
127	82.1	87.3	91.9	95.4	97.2	13.3	5.2
131	81.1	86.5	89.7	95.1	97.0	14.0	5.4
135	75.9	81.6	87.2	90.1	91.7	14.2	5.7
139	71.9	78.1	85.8	86.3	86.3	14.4	6.2
143	70.5	77.3	83.5	86.0	87.2	15.5	6.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 22, 100 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	66.4	76.7	86.6	84.5	84.5	18.1	10.3
5	70.4	79.9	88.6	87.7	87.7	17.3	9.5
7	72.1	81.9	90.1	89.1	90.2	17.0	9.8
9	74.9	82.9	91.2	90.7	92.8	15.8	8.0
11	75.2	83.1	92.0	91.3	93.1	16.1	7.9
13	74.8	84.6	93.4	92.1	92.1	17.3	9.8
15	79.2	87.5	95.0	94.7	94.7	15.5	8.3
17	83.0	90.5	96.8	97.7	97.7	14.7	7.5
19	82.6	90.5	97.3	97.6	97.6	15.0	7.9
21	81.0	89.3	96.8	97.1	98.2	16.1	8.3
23	78.5	86.8	95.3	95.2	95.2	16.7	8.3
25	78.3	86.0	94.6	94.6	94.6	16.3	7.7
27	80.7	86.6	94.8	95.9	97.4	15.2	5.9
29	81.4	87.8	95.6	96.8	98.0	15.4	6.4
31	80.2	87.4	95.8	95.5	96.9	15.3	7.2
33	78.8	87.1	96.1	95.2	96.6	16.4	8.3
35	83.1	88.6	96.2	96.9	96.9	13.8	5.5
37	86.0	90.3	96.1	98.6	100.4	12.6	4.3
39	82.0	87.6	94.4	95.5	97.3	13.5	5.6
41	78.2	84.9	94.5	93.1	94.2	14.9	6.7
43	82.6	87.6	94.6	96.3	98.0	13.7	5.0
45	84.3	89.7	95.0	98.4	98.4	14.1	5.4
47	83.0	88.8	94.2	97.2	98.7	14.2	5.8
49	78.8	85.7	93.8	93.8	93.8	15.0	6.9
O.H. 51 → 52	77.1	84.3	94.6	91.9	91.9	14.8	7.2
53	76.5	83.3	93.3	90.9	92.1	14.4	6.8
55	77.9	83.7	91.2	91.4	91.4	13.5	5.8
57	78.6	83.9	92.7	91.5	92.5	12.9	5.3
59	78.4	83.8	93.2	91.6	92.7	13.2	5.4
61	79.2	83.7	90.4	91.9	91.9	12.7	4.5
63	78.4	82.7	87.5	90.7	90.7	12.3	4.3
65	75.4	79.8	84.5	88.1	88.1	12.7	4.4
67	72.7	77.7	83.3	86.2	87.9	13.5	5.0
69	69.5	75.3	83.0	84.2	86.3	14.7	5.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 23, 110 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	59.8	72.3	83.9	82.3	82.3	22.5	12.5
3	60.9	73.2	85.0	82.6	82.6	21.7	12.3
5	61.9	74.8	86.6	83.3	83.3	21.4	12.9
7	64.9	77.4	88.9	86.0	86.0	21.1	12.5
9	69.7	80.6	91.0	89.2	89.2	19.5	10.9
11	75.3	84.2	93.6	92.4	92.4	17.1	8.9
13	78.9	88.1	96.2	95.1	95.1	16.2	9.2
14	79.5	88.7	96.7	95.7	95.7	16.2	9.2
16	77.9	87.6	96.2	95.3	95.3	17.4	9.7
18	77.6	85.9	95.2	94.7	94.7	17.1	8.3
20	77.5	84.6	94.3	93.7	95.0	16.2	7.1
22	74.1	83.3	93.3	91.9	93.3	17.8	9.2
24	72.8	82.8	93.3	91.6	91.6	18.8	10.0
26	74.3	84.2	93.7	92.5	92.5	18.2	9.9
28	75.3	84.9	93.5	92.9	94.2	17.6	9.6
30	74.5	83.0	93.6	91.9	91.9	17.4	8.5
32	75.5	83.4	95.2	91.4	92.5	15.9	7.9
34	76.7	84.9	94.8	92.8	94.0	16.1	8.2
36	78.0	85.0	92.5	93.5	93.5	15.5	7.0
38	76.9	84.0	92.1	92.3	93.4	15.4	7.1
O.H. 40 → 41	77.6	84.8	94.7	92.8	92.8	15.2	7.2
42	77.1	84.0	94.4	91.1	91.1	14.0	6.9
44	76.8	83.3	91.6	91.3	91.3	14.5	6.5
46	78.8	84.0	91.9	91.5	92.6	12.7	5.2
48	79.6	84.8	93.6	92.1	93.5	12.5	5.2
50	78.3	83.4	90.6	90.8	90.8	12.5	5.1
52	78.5	83.2	87.5	90.7	92.0	12.2	4.7
54	76.7	81.4	85.5	89.5	89.5	12.8	4.7
56	74.2	79.3	84.4	87.7	90.1	13.5	5.1
58	72.2	77.2	83.3	85.6	87.1	13.4	5.0
60	70.1	75.2	81.9	83.5	83.5	13.4	5.1
62	67.0	73.1	80.5	82.5	82.5	15.5	6.1
64	66.0	72.2	79.4	82.1	82.1	16.1	6.2
66	66.0	72.3	78.5	82.1	82.1	16.1	6.3

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	73.5	82.5	90.2	91.2	91.2	17.7	9.0
	2	74.5	83.7	91.2	92.0	92.0	17.5	9.2
	3	76.1	85.3	92.3	93.2	93.2	17.1	9.2
	4	80.0	87.0	93.4	95.0	95.0	15.0	7.0
	5	81.7	88.6	94.7	96.3	96.3	14.6	6.9
	6	82.2	89.4	95.7	96.9	96.9	14.7	7.2
	7	82.2	90.0	96.4	97.4	97.4	15.2	7.8
	8	83.7	91.1	97.4	99.3	100.3	15.6	7.4
	9	85.4	92.5	98.6	100.9	101.9	15.5	7.1
	10	86.9	93.9	99.6	101.8	102.9	14.9	7.0
	11	87.4	94.6	100.4	101.8	101.8	14.4	7.2
	12	87.5	95.1	101.3	101.7	101.7	14.2	7.6
	13	87.4	95.6	102.2	101.8	101.8	14.4	8.2
	14	88.3	96.4	103.0	102.6	102.6	14.3	8.1
	15	88.5	96.6	103.2	102.9	102.9	14.4	8.1
	16	88.9	96.7	103.0	103.2	103.2	14.3	7.8
	17	88.5	96.3	102.7	103.0	103.0	14.5	7.8
	18	89.4	96.9	103.0	103.3	103.3	13.9	7.5
	19	89.9	97.5	103.5	103.8	103.8	13.9	7.6
	20	89.8	97.5	103.8	104.3	104.3	14.5	7.7
	21	88.7	96.9	103.7	104.1	104.1	15.4	8.2
	22	88.2	96.7	103.9	103.7	103.7	15.5	8.5
	23	87.7	96.7	103.9	103.2	103.2	15.5	9.0
	24	87.1	96.3	103.7	103.1	103.1	16.0	9.2
	25	85.4	95.4	103.5	102.3	102.3	16.9	10.0
	26	84.7	94.8	103.4	101.9	101.9	17.2	10.1
	27	84.6	94.7	103.3	101.9	101.9	17.3	10.1
	28	84.3	93.8	102.5	101.3	101.3	17.0	9.5
	29	83.2	92.4	101.4	100.3	101.4	17.1	9.2
	30	82.0	90.9	100.9	98.7	98.7	16.7	8.9
	31	80.8	90.3	101.3	98.0	98.0	17.2	9.5
	32	81.4	90.4	101.4	98.2	98.2	16.8	9.0
	33	81.3	89.5	100.6	97.2	97.2	15.9	8.2
	34	81.8	88.7	99.2	96.2	97.4	14.4	6.9
	35	81.5	88.3	98.3	96.0	97.3	14.5	6.8
O.H. →	36	81.6	88.4	98.5	96.2	96.2	14.6	6.8
	37	81.0	88.0	98.5	95.9	95.9	14.9	7.0
	38	81.0	87.7	97.5	95.5	95.5	14.5	6.7
	39	81.3	87.4	95.3	95.2	95.2	13.9	6.1
	40	81.5	87.0	93.3	94.8	94.8	13.3	5.5
	41	81.0	86.0	93.4	94.1	94.1	13.1	5.0
	42	80.8	85.5	93.7	93.3	94.5	12.5	4.7
	43	80.5	85.3	93.3	92.8	93.8	12.3	4.8
	44	80.3	85.1	92.0	92.3	92.3	12.0	4.8
	45	79.6	84.2	90.6	91.7	91.7	12.1	4.6

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	76.3	83.1	88.4	91.3	91.3	15.0	6.8
2	77.0	84.3	90.2	92.2	92.2	15.2	7.3
3	79.1	86.7	92.7	94.3	94.3	15.2	7.6
4	80.6	88.5	95.0	96.3	96.3	15.7	7.9
5	81.3	89.8	96.9	97.3	97.3	16.0	8.5
6	81.2	90.3	98.3	97.8	97.8	16.6	9.1
7	82.2	91.2	99.8	99.8	99.8	17.6	9.0
8	87.1	93.4	100.9	101.7	101.7	14.6	6.3
9	89.7	95.3	102.2	103.2	103.2	13.5	5.6
10	91.2	97.7	103.6	104.8	104.8	13.6	6.5
11	91.4	98.8	104.8	105.5	105.5	14.1	7.4
12	91.1	99.4	105.4	105.5	105.5	14.4	8.3
13	91.0	99.3	105.4	105.4	105.4	14.4	8.3
14	90.6	98.7	104.9	105.4	105.4	14.8	8.1
15	90.1	98.0	104.6	105.1	105.1	15.0	7.9
16	88.7	97.3	104.4	104.5	105.5	15.8	8.6
17	88.0	97.2	104.6	104.1	105.8	16.1	9.2
18	87.2	96.7	104.5	103.6	103.6	16.4	9.5
19	87.1	96.5	104.5	103.3	103.3	16.2	9.4
20	86.6	95.9	104.2	103.3	103.3	16.7	9.3
21	86.2	95.6	103.8	102.8	102.8	16.6	9.4
22	84.9	94.6	103.0	101.9	101.9	17.0	9.7
23	83.5	93.1	101.8	100.7	100.7	17.2	9.6
24	82.9	91.6	101.3	99.5	99.5	16.6	8.7
25	82.6	90.7	101.4	98.9	99.9	16.3	8.1
26	82.8	90.7	101.7	99.2	100.2	16.4	7.9
27	82.1	90.0	101.1	98.3	99.4	16.2	7.9
28	81.6	88.9	99.9	96.9	96.9	15.3	7.3
29	80.9	87.9	98.8	95.5	95.5	14.6	7.0
O.H.→30	80.8	87.7	98.8	94.9	94.9	14.1	6.9
31	81.3	87.9	98.9	95.1	95.1	13.8	6.6
32	81.5	87.7	97.9	95.0	95.0	13.5	6.2

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	76.5	85.4	92.5	95.7	95.7	19.2	8.9
2	77.1	86.2	93.6	96.1	96.1	19.0	9.1
3	78.4	87.7	95.3	97.3	97.3	18.9	9.3
4	80.6	89.9	97.2	98.7	98.7	18.1	9.3
5	86.2	94.2	100.5	102.3	102.3	16.1	8.0
6	89.2	96.8	103.1	105.2	105.2	16.0	7.6
7	91.7	98.8	105.1	107.0	107.0	15.3	7.1
8	93.1	99.9	106.2	108.1	108.1	15.0	6.8
9	92.9	100.0	106.4	107.9	107.9	15.0	7.1
10	92.4	99.9	106.4	108.0	108.0	15.6	7.5
11	91.5	99.9	106.6	107.8	107.8	16.3	8.4
12	91.1	99.7	106.7	107.6	107.6	16.5	8.6
13	90.1	98.6	106.1	107.1	107.1	17.0	8.5
14	89.5	97.0	105.0	106.2	106.2	16.7	7.5
15	89.0	96.2	104.2	105.6	105.6	16.6	7.2
16	88.4	96.2	103.9	105.3	105.3	16.9	7.8
17	87.9	96.2	104.2	105.3	106.4	17.4	8.3
18	87.4	95.6	103.9	104.7	104.7	17.3	8.2
19	86.8	95.0	103.8	103.8	103.8	17.0	8.2
20	85.8	94.5	103.4	103.6	103.6	17.8	8.7
21	85.8	94.7	103.3	103.5	103.5	17.7	8.9
22	84.7	93.7	102.5	102.8	102.8	18.1	9.0
23	83.6	92.5	102.0	101.3	101.3	17.7	8.9
24	82.6	91.4	101.9	100.5	101.5	17.9	8.8
25	83.3	91.5	101.9	100.5	100.5	17.2	8.2
26	83.2	90.9	101.7	99.7	99.7	16.5	7.7
27	82.8	89.7	100.7	98.4	98.4	15.6	6.9
28	81.9	88.8	99.9	97.1	97.1	15.2	6.9
O.H. → 29	81.6	88.5	99.7	96.6	96.6	15.0	6.9
30	81.7	88.5	99.4	96.7	96.7	15.0	6.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	79.6	86.7	91.6	96.0	96.0	16.4	7.1
2	81.7	89.5	93.7	97.9	99.0	16.2	7.8
3	84.3	91.9	95.8	99.5	99.5	15.2	7.6
4	85.4	93.1	97.9	101.1	101.1	15.7	7.7
5	86.5	94.2	99.9	102.0	102.0	15.5	7.7
6	87.0	95.3	102.2	103.7	103.7	16.7	8.3
7	88.6	97.2	104.1	105.6	105.6	17.0	8.6
8	92.9	100.1	106.0	107.7	107.7	14.8	7.2
9	95.4	101.7	107.4	110.2	110.2	14.8	6.3
10	95.6	102.0	107.9	110.6	110.6	15.0	6.4
11	94.3	101.2	107.6	110.0	110.0	15.7	6.9
12	92.7	100.4	107.0	108.8	108.8	16.1	7.7
13	92.5	100.0	106.7	108.4	108.4	15.9	7.5
14	92.1	99.5	106.4	108.2	108.2	16.1	7.4
15	92.2	99.8	106.6	108.6	108.6	16.4	7.6
16	92.8	99.9	106.6	108.8	108.8	16.0	7.1
17	92.3	99.5	106.5	108.1	108.1	15.8	7.2
18	90.8	98.1	105.8	106.9	106.9	16.1	7.3
19	88.0	96.2	104.5	105.4	105.4	17.4	8.2
20	87.2	94.8	103.3	104.2	104.2	17.0	7.6
21	86.3	94.1	103.5	102.7	102.7	16.4	7.8
22	86.0	93.9	103.7	102.8	102.8	16.8	7.9
23	85.7	93.5	103.5	102.2	102.2	16.5	7.8
24	85.0	91.7	102.1	100.5	100.5	15.5	6.7
25	84.2	90.3	100.8	98.9	98.9	14.7	6.1
26	83.1	89.5	100.0	97.6	97.6	14.5	6.4
O.H.→27	82.5	89.5	100.3	97.7	97.7	15.2	7.0

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 28, 150 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	80.0	89.4	96.5	98.2	98.2	18.2	9.4
2	83.8	92.6	99.0	100.6	100.6	16.8	8.8
3	86.7	94.8	101.9	103.0	103.0	16.3	8.1
4	88.1	96.2	103.9	105.0	105.0	16.9	8.1
5	89.7	98.0	105.4	106.6	106.6	16.9	8.3
6	92.8	100.4	107.0	109.1	109.1	16.3	7.6
7	97.8	104.1	108.9	111.8	112.4	14.0	6.3
8	99.0	105.4	109.9	112.9	113.5	13.9	6.4
9	99.5	105.8	110.3	113.3	114.5	13.8	6.3
10	97.6	104.6	109.9	112.6	112.6	15.0	7.0
11	96.3	103.5	109.1	111.6	111.6	15.3	7.2
12	94.5	102.1	108.3	110.3	110.3	15.8	7.6
13	93.8	101.1	107.7	109.4	109.4	15.6	7.3
14	92.8	100.0	107.2	108.8	108.8	16.0	7.2
15	91.1	98.7	106.1	107.4	108.7	16.3	7.6
16	89.8	96.9	105.0	105.7	105.7	15.9	7.1
17	88.8	96.2	105.1	104.4	104.4	15.6	7.4
18	88.1	95.7	105.1	104.1	104.1	16.0	7.6
19	87.3	95.1	104.8	103.5	103.5	16.2	7.8
20	86.1	93.1	103.2	101.8	101.8	15.7	7.0

O.H. → 22

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	73.1	82.9	87.9	93.0	93.0	19.9	9.8
3	74.3	84.1	90.0	93.5	93.5	19.2	9.8
5	75.6	85.0	92.1	94.3	94.3	18.7	9.4
7	78.2	87.6	94.6	96.2	96.2	18.0	9.4
9	82.7	91.1	98.0	99.7	99.7	17.0	8.4
11	88.5	96.6	102.0	103.8	103.8	15.3	8.1
13	90.7	98.7	104.3	105.8	105.8	15.1	8.0
14	90.6	98.8	104.7	106.0	106.0	15.4	8.2
16	90.2	98.4	104.5	105.7	105.7	15.5	8.2
18	88.6	97.0	103.7	105.0	105.0	16.4	8.4
20	86.7	94.6	102.3	103.3	103.3	16.6	7.9
22	85.8	93.2	101.3	102.3	102.3	16.5	7.4
24	85.6	92.9	101.6	102.1	102.1	16.5	7.3
26	87.6	96.4	103.9	103.8	103.8	16.2	8.8
28	88.5	98.2	105.5	105.0	105.0	16.5	9.7
30	88.8	98.7	106.3	105.5	105.5	16.7	9.9
32	87.5	97.3	105.6	104.7	104.7	17.2	9.8
34	84.9	94.8	104.2	103.2	104.4	18.3	9.9
36	84.5	94.2	103.7	102.1	102.1	17.6	9.7
38	87.9	96.0	103.2	103.4	103.4	15.5	8.1
O.H.→ 40	89.0	96.7	102.6	104.0	104.0	15.0	7.7
42	88.2	96.2	102.5	103.9	103.9	15.7	8.0
44	86.8	93.8	99.8	102.2	102.2	15.4	7.0
46	85.0	91.0	96.7	98.9	98.9	13.9	6.0
48	80.7	86.9	92.5	95.2	95.2	14.5	6.2
50	78.4	84.6	89.7	93.6	93.6	15.2	6.2
52	75.4	82.8	87.2	92.5	92.5	17.1	7.4
54	74.4	81.9	84.8	91.9	91.9	17.5	7.5

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 29, 150 KT. FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
2	80.8	89.9	95.7	98.1	98.1	17.3	9.1
3	82.4	91.5	97.7	99.8	99.8	17.4	9.1
4	83.7	92.6	99.5	101.1	101.1	17.4	8.9
5	86.8	95.0	102.5	104.2	104.2	17.4	8.2
6	95.0	102.0	106.0	109.7	109.7	14.7	7.0
7	98.2	104.6	108.2	111.7	111.7	13.5	6.4
8	98.7	105.4	109.3	112.6	112.6	13.9	6.7
9	98.5	105.1	109.9	112.5	112.5	14.0	6.6
10	97.5	104.6	109.9	112.5	112.5	15.0	7.1
11	96.9	104.1	109.5	112.0	112.0	15.1	7.2
12	95.6	103.2	109.2	111.2	111.2	15.6	7.6
13	95.1	102.4	108.9	110.6	110.6	15.5	7.3
14	94.9	101.8	108.5	110.3	110.3	15.4	6.9
15	94.9	101.4	108.1	109.8	109.8	14.9	6.5
16	93.6	100.1	107.1	109.0	109.0	15.4	6.5
17	91.8	98.6	106.2	107.6	107.6	15.8	6.8
18	87.6	95.8	104.7	104.6	104.6	17.0	8.2
19	86.5	94.2	104.0	102.9	102.9	16.4	7.7
20	86.7	93.5	103.5	102.0	102.0	15.3	6.8
21	86.6	93.0	103.0	101.6	101.6	15.0	6.4
22	85.2	91.9	102.6	99.9	99.9	14.7	6.7
O.H. → 23							

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	76.5	85.5	91.1	94.5	94.5	18.0	9.0
2	78.1	87.1	93.1	95.9	95.9	17.8	9.0
3	79.6	89.4	95.4	97.5	97.5	17.9	9.8
4	80.7	91.1	97.4	98.8	98.8	18.1	10.4
5	82.4	92.9	99.3	100.3	100.3	17.9	10.5
6	84.7	95.2	101.4	102.4	102.4	17.7	10.5
7	87.3	97.4	103.4	104.6	104.6	17.3	10.1
8	89.4	99.2	105.2	106.3	106.3	16.9	9.8
9	91.3	100.7	106.5	107.6	107.6	16.3	9.4
10	93.4	102.2	107.6	108.7	108.7	15.3	8.8
11	94.4	103.1	108.3	109.2	109.2	14.8	8.7
12	94.3	102.8	108.1	109.0	109.0	14.7	8.5
13	93.1	101.8	107.2	108.3	108.3	15.2	8.7
14	91.5	100.1	105.9	107.3	107.3	15.8	8.6
15	90.6	99.1	105.2	106.4	106.4	15.8	8.5
16	89.7	98.2	104.7	105.6	105.6	15.9	8.5
17	89.1	97.7	104.5	105.2	105.2	16.1	8.6
18	88.3	97.0	104.2	104.6	104.6	16.3	8.7
19	87.7	96.4	103.8	104.2	104.2	16.5	8.7
20	87.2	95.7	103.5	103.7	103.7	16.5	8.5
21	87.0	95.3	103.7	103.5	103.5	16.5	8.3
22	87.2	95.8	104.2	103.9	103.9	16.7	8.6
23	87.7	96.8	105.0	104.5	104.5	16.8	9.1
24	87.9	97.6	105.7	105.0	105.0	17.1	9.7
25	87.4	97.6	105.9	104.9	104.9	17.5	10.2
26	86.4	97.2	105.9	104.5	104.5	18.1	10.8
27	85.3	96.3	105.5	104.1	104.1	18.8	11.0
28	84.4	95.4	105.1	103.6	103.6	19.2	11.0
29	84.0	94.5	104.3	102.9	102.9	18.9	10.5
30	85.4	94.7	103.9	102.3	102.3	16.9	9.3
31	86.5	95.1	103.5	102.3	102.3	15.8	8.6
O.H.→32	87.7	95.9	102.9	103.1	103.1	15.4	8.2
33	87.8	95.7	102.1	103.3	103.3	15.5	7.9
34	87.7	95.4	101.9	103.1	103.1	15.4	7.7
35	87.0	94.8	101.5	103.1	103.1	16.1	7.8
36	87.0	94.7	101.0	102.9	102.9	15.9	7.7
37	87.1	94.4	100.2	102.7	102.7	15.6	7.3
38	86.8	93.5	99.4	101.8	101.8	15.0	6.7
39	85.6	91.9	98.1	99.9	99.9	14.3	6.3
40	83.7	89.8	95.8	97.9	97.9	14.2	6.1
41	81.9	88.2	94.0	96.5	96.5	14.6	6.3
42	80.2	86.8	92.5	95.3	95.3	15.1	6.6

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	76.1	85.2	91.4	94.2	94.2	18.1	9.1
2	77.0	85.7	92.3	94.6	94.6	17.6	8.7
3	78.2	86.7	93.8	95.7	95.7	17.5	8.5
4	79.7	88.2	95.9	97.2	97.2	17.5	8.5
5	82.5	91.8	98.9	99.9	99.9	17.4	9.3
6	86.6	95.7	102.0	103.3	103.3	16.7	9.1
7	90.6	99.2	104.5	105.9	105.9	15.3	8.6
8	92.6	100.8	105.7	107.5	107.5	14.9	8.2
9	92.5	100.5	105.5	107.3	107.3	14.8	8.0
10	90.7	98.5	104.1	105.7	105.7	15.0	7.8
11	87.6	95.5	102.3	103.7	103.7	16.1	7.9
12	86.6	94.5	101.8	102.9	102.9	16.3	7.9
13	86.4	94.5	101.8	102.7	102.7	16.3	8.1
14	85.8	94.1	101.7	102.6	102.6	16.8	8.3
15	85.7	94.1	101.9	102.7	102.7	17.0	8.4
16	87.3	95.5	102.9	103.7	103.7	16.4	8.2
17	88.6	96.7	103.7	104.7	104.7	16.1	8.1
18	89.5	97.8	104.5	105.6	105.6	16.1	8.3
19	90.0	98.7	105.5	106.6	106.6	16.6	8.7
20	90.3	99.2	106.3	107.0	108.1	16.7	8.9
21	89.6	98.6	106.1	106.4	106.4	16.8	9.0
22	88.2	97.0	105.1	105.0	105.0	16.8	8.8
23	86.9	95.8	104.5	104.0	104.0	17.1	8.9
24	87.5	96.2	104.7	104.1	104.1	16.6	8.7
25	87.5	96.4	104.8	104.3	104.3	16.8	8.9
26	86.9	96.0	104.4	103.9	103.9	17.0	9.1
27	86.1	95.3	103.8	103.1	103.1	17.0	9.2
28	87.5	95.9	103.5	103.3	103.3	15.8	8.4
29	88.3	96.0	103.5	103.4	103.4	15.1	7.7
30	88.9	96.6	103.3	104.0	104.0	15.1	7.7
31	88.7	96.6	102.9	103.8	103.8	15.1	7.9
O.H.→32	88.2	96.1	102.4	103.6	103.6	15.4	7.9
33	87.2	95.2	101.7	103.2	103.2	16.0	8.0
34	86.4	93.9	100.8	102.4	102.4	16.0	7.5
35	86.3	93.3	99.7	101.9	101.9	15.6	7.0
36	86.1	92.3	98.5	100.7	100.7	14.6	6.2
37	85.3	91.2	97.2	99.1	99.1	13.8	5.9
38	84.1	89.6	95.6	97.7	97.7	13.6	5.5
39	82.0	87.9	94.1	96.3	96.3	14.3	5.9
40	80.0	86.2	92.2	94.8	94.8	14.8	6.2
41	77.9	84.7	90.6	93.7	93.7	15.8	6.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	78.1	86.3	94.4	95.6	95.6	17.5	8.2
	2	78.0	87.0	96.1	96.7	96.7	18.7	9.0
	3	79.1	88.9	97.8	98.2	98.2	19.1	9.8
	4	82.2	92.1	100.4	100.5	100.5	18.3	9.9
	5	89.2	97.6	103.9	104.9	104.9	15.7	8.4
	6	93.1	101.2	106.3	107.7	107.7	14.6	8.1
	7	94.7	102.7	107.7	109.1	109.1	14.4	8.0
	8	95.2	103.1	108.0	109.7	109.7	14.5	7.9
	9	94.9	102.4	107.7	109.6	109.6	14.7	7.5
	10	94.2	101.8	107.5	109.2	109.2	15.0	7.6
	11	94.3	102.0	108.0	110.0	110.0	15.7	7.7
	12	94.2	102.6	108.7	110.2	110.2	16.0	8.4
	13	94.5	103.0	109.2	110.6	110.6	16.1	8.5
	14	94.7	103.1	109.4	110.2	110.2	15.5	8.4
	15	94.4	102.6	109.0	110.1	110.1	15.7	8.2
	16	93.1	101.5	108.4	109.0	109.0	15.9	8.4
	17	90.8	99.8	107.3	107.6	107.6	16.8	9.0
	18	89.7	98.6	106.7	106.3	106.3	16.6	8.9
	19	89.3	97.9	106.1	105.5	105.5	16.2	8.6
	20	89.0	97.5	105.6	105.0	105.0	16.0	8.5
	21	89.1	97.2	105.2	104.4	104.4	15.3	8.1
	22	88.8	96.7	104.8	104.2	104.2	15.4	7.9
	23	88.4	96.3	104.3	103.7	103.7	15.3	7.9
	24	88.2	96.3	103.4	103.8	103.8	15.6	8.1
	25	89.5	97.4	103.5	104.7	104.7	15.2	7.9
O.H.→	26	89.9	97.6	103.3	105.0	105.0	15.1	7.7
	27	89.5	97.2	103.2	104.9	104.9	15.4	7.7
	28	88.5	96.1	102.2	104.2	104.2	15.7	7.6
	29	88.3	95.5	101.5	103.7	103.7	15.4	7.2
	30	87.3	94.0	100.2	102.3	102.3	15.0	6.7
	31	85.6	91.8	98.2	100.1	100.1	14.5	6.2
	32	82.7	88.7	95.2	97.0	97.0	14.3	6.0
	33	81.1	87.2	93.0	95.6	95.6	14.5	6.1
	34	79.3	85.7	90.9	94.2	94.2	14.9	6.4

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 12, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	78.6	86.1	92.9	95.7	95.7	17.1	7.5
	3	78.5	86.4	93.2	95.8	95.8	17.3	7.9
	5	79.9	87.1	94.1	96.7	96.7	16.8	7.2
	7	82.8	88.9	95.3	98.5	98.5	15.7	6.1
	9	84.2	89.8	96.5	99.7	99.7	15.5	5.6
	11	83.9	89.3	95.7	99.1	100.6	15.2	5.4
	13	84.3	90.4	96.2	99.6	101.6	15.3	6.1
	15	85.2	91.3	96.5	100.2	100.2	15.0	6.1
	17	87.4	93.4	98.2	102.2	103.5	14.8	6.0
	19	88.9	94.4	98.7	103.1	104.7	14.2	5.5
	21	87.9	93.2	98.2	101.7	102.8	13.8	5.3
	23	88.9	94.7	99.3	102.8	102.8	13.9	5.8
	25	91.4	97.0	101.5	104.5	104.5	13.1	5.6
	27	92.1	98.0	102.4	105.5	105.5	13.4	5.9
	29	92.0	98.1	102.3	105.6	105.6	13.6	6.1
	31	92.4	98.2	102.5	105.6	105.6	13.2	5.8
	33	94.3	100.8	104.1	107.4	107.4	13.1	6.5
O.H. →	35	95.8	102.3	105.5	108.6	108.6	12.8	6.5
	37	95.2	102.0	105.6	108.1	108.1	12.9	6.8
	39	92.7	99.6	104.0	106.2	106.2	13.5	6.9
	41	90.9	97.5	102.2	104.7	104.7	13.8	6.6
	43	89.1	95.1	99.6	102.6	103.9	13.5	6.0
	45	85.7	92.0	96.9	100.4	100.4	14.7	6.3
	47	84.1	90.2	95.8	99.0	99.0	14.9	6.1
	49	83.2	88.9	94.4	98.0	98.0	14.8	5.7
	51	80.8	86.9	92.5	95.8	97.0	15.0	6.1
	53	78.2	84.6	90.7	94.0	95.1	15.8	6.4
	55	75.5	82.4	88.3	.0	.0	-75.4	6.9

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 17, 60 KT. FLY BY, CNETERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	72.9	81.4	87.6	92.7	92.7	19.8	8.5
3	72.4	81.3	87.8	92.7	92.7	20.3	8.9
5	73.2	82.0	88.4	93.1	93.1	19.9	8.8
7	76.9	84.4	90.5	94.6	94.6	17.7	7.5
9	81.8	87.4	93.2	97.3	98.4	15.5	5.6
11	85.2	90.5	95.3	99.9	99.9	14.7	5.3
13	86.9	91.9	95.6	101.1	101.1	14.2	5.0
15	87.2	91.6	95.4	100.8	100.8	13.6	4.4
17	85.5	89.5	94.4	99.1	99.1	13.6	4.0
19	81.1	87.1	91.9	96.3	96.3	15.2	6.0
21	79.2	85.0	90.2	94.8	94.8	15.6	5.8
23	74.2	81.9	89.0	93.2	93.2	19.0	7.7
25	72.9	81.6	88.6	92.8	92.8	19.9	8.7
27	78.9	85.1	91.0	94.5	94.5	15.6	6.2
29	80.5	86.0	91.9	95.8	96.8	15.3	5.5
31	80.4	85.1	91.0	94.9	96.2	14.5	4.7
33	74.7	82.3	89.3	93.4	93.4	18.7	7.6
35	74.3	82.1	89.9	93.1	93.1	18.8	7.8
37	76.0	83.8	91.2	93.7	93.7	17.7	7.8
39	79.6	85.7	92.1	95.6	95.6	16.0	6.1
41	81.9	87.1	92.3	97.2	98.8	15.3	5.2
43	85.2	89.6	94.2	99.3	100.4	14.1	4.4
45	85.8	90.2	94.6	99.5	101.1	13.7	4.4
47	84.9	90.0	94.3	99.0	101.1	14.1	5.1
49	83.9	89.7	94.4	99.0	99.0	15.1	5.8
51	84.5	90.8	95.5	100.1	101.6	15.6	6.3
53	86.2	92.4	97.0	101.2	101.2	15.0	6.2
55	88.2	93.7	98.3	101.8	103.6	13.6	5.5
57	88.7	94.8	100.1	102.8	102.8	14.1	6.1
59	89.4	95.7	100.8	104.1	104.1	14.7	6.3
61	90.0	96.0	100.2	104.0	104.0	14.0	6.0
63	89.3	94.9	98.7	102.6	102.6	13.3	5.6
65	86.3	92.7	97.4	100.4	100.4	14.1	6.4
67	84.9	91.8	96.8	100.0	100.0	15.1	6.9
O.H. → 68							
69	85.4	92.6	97.4	100.6	100.6	15.2	7.2
71	85.9	92.7	97.7	100.6	100.6	14.7	6.8
73	86.7	93.3	98.7	100.7	100.7	14.0	6.6
75	87.3	93.5	99.6	100.6	100.6	13.3	6.2
77	84.5	90.2	97.8	98.0	99.0	13.5	5.7
79	81.4	87.0	93.7	95.6	97.1	14.2	5.6
81	79.1	84.7	89.7	94.2	96.0	15.1	5.6
83	77.1	83.1	88.0	92.9	94.3	15.8	6.0
85	75.4	81.9	87.2	92.5	92.5	17.1	6.5
87	74.9	81.5	86.9	92.3	92.3	17.4	6.6
89	73.7	80.8	86.6	91.9	91.9	18.2	7.1

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 20, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	78.3	84.6	91.2	94.7	94.7	16.4	6.3
	3	78.2	85.0	91.9	95.1	95.1	16.9	6.8
	5	80.0	85.8	92.7	95.9	95.9	15.9	5.8
	7	81.6	87.0	93.6	97.1	98.1	15.5	5.4
	9	82.7	88.2	94.5	98.2	99.9	15.5	5.5
	11	83.5	88.6	94.6	98.4	100.0	14.9	5.1
	13	85.1	89.9	95.0	99.1	99.1	14.0	4.8
	15	85.2	90.2	95.6	99.0	99.0	13.8	5.0
	17	86.6	91.9	97.0	100.3	101.8	13.7	5.3
	19	86.6	92.2	97.3	100.4	101.5	13.8	5.6
	21	86.3	91.9	97.5	100.7	100.7	14.4	5.6
	23	87.1	93.0	98.7	101.6	102.7	14.5	5.9
	25	88.4	94.5	99.4	102.5	103.5	14.1	6.1
	27	88.9	95.4	100.1	102.9	102.9	14.0	6.5
	29	89.8	96.3	101.0	103.3	104.4	13.5	6.5
	31	91.2	97.6	101.7	104.7	104.7	13.5	6.4
	33	93.0	99.4	102.9	106.3	106.3	13.3	6.4
	35	93.8	100.3	103.7	107.3	107.3	13.5	6.5
O.H. →	37	94.6	101.5	104.7	108.0	108.0	13.4	6.9
	38	95.1	101.8	105.1	108.2	108.2	13.1	6.7
	40	93.9	100.7	104.8	107.2	107.2	13.3	6.8
	42	91.3	98.4	103.2	105.2	106.2	13.9	7.1
	44	90.4	96.5	101.8	104.0	105.6	13.6	6.1
	46	88.7	94.7	100.1	102.6	103.8	13.9	6.0
	48	85.1	91.1	96.8	99.4	99.4	14.3	6.0
	50	83.5	89.1	94.1	98.0	98.0	14.5	5.6
	52	82.0	87.5	93.0	96.9	97.9	14.9	5.5
	54	80.1	85.9	91.5	95.7	97.2	15.6	5.8
	56	76.7	83.5	89.6	93.6	94.8	16.9	6.8
	58	74.6	82.2	87.7	.0	.0	-74.5	7.6

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 18, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.9	79.1	81.7	.0	.0	-70.8	8.2
4	74.2	80.6	84.2	92.2	92.2	18.0	6.4
7	74.3	81.0	84.9	92.3	92.3	18.0	6.7
10	78.4	85.1	90.0	95.1	95.1	16.7	6.7
13	82.6	88.6	93.0	97.9	97.9	15.3	6.0
16	85.6	91.1	94.0	99.1	99.1	13.5	5.5
19	84.4	91.1	95.4	99.3	99.3	14.9	6.7
22	80.5	88.8	94.7	97.7	97.7	17.2	8.3
25	79.2	86.7	92.0	96.1	96.1	16.9	7.5
28	79.5	86.2	91.8	95.9	95.9	16.4	6.7
31	78.0	85.5	92.0	95.6	95.6	17.6	7.5
34	78.7	86.7	93.5	96.7	96.7	18.0	8.0
37	85.0	90.5	95.3	99.0	99.0	14.0	5.5
40	82.7	87.4	93.1	97.0	97.0	14.3	4.7
43	86.2	90.5	94.9	99.2	100.6	13.0	4.3
46	83.9	89.5	95.0	98.6	98.6	14.7	5.6
49	81.4	87.3	93.5	96.8	98.0	15.4	5.9
52	82.8	89.2	95.2	98.8	100.1	16.0	6.4
55	83.8	89.2	94.5	98.6	100.3	14.8	5.4
58	86.6	92.2	97.4	101.2	102.5	14.6	5.6
61	85.7	91.1	96.5	100.3	100.3	14.6	5.4
64	86.9	92.2	97.1	101.2	101.2	14.3	5.3
67	84.4	90.2	95.8	99.1	100.7	14.7	5.8
70	86.5	92.9	97.9	101.9	101.9	15.4	6.4
73	89.2	94.6	99.1	102.6	102.6	13.4	5.4
76	91.5	96.7	100.8	105.0	105.0	13.5	5.2
79	91.5	97.0	99.8	104.1	104.1	12.6	5.5
O.H. 82 → 83	89.0	95.0	97.8	102.4	102.4	13.4	6.0
85	90.5	96.3	100.3	103.8	103.8	13.3	5.8
88	86.5	92.9	98.7	100.9	100.9	14.4	6.4
91	85.9	91.5	98.0	99.1	100.2	13.2	5.6
94	82.7	88.2	95.6	96.7	98.1	14.0	5.5
97	79.6	85.8	92.2	94.8	96.3	15.2	6.2
100	77.1	83.3	89.6	93.3	93.3	16.2	6.2
103	77.4	83.6	88.7	93.3	93.3	15.9	6.2
106	74.4	81.3	87.6	92.5	92.5	18.1	6.9
109	73.8	80.9	87.0	92.0	92.0	18.2	7.1

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 22, 100 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
7	69.5	79.8	86.5	92.1	92.1	22.6	10.3
9	74.1	82.2	89.3	93.2	93.2	19.1	8.1
11	75.7	83.5	90.6	93.8	93.8	18.1	7.8
13	75.0	83.9	91.6	94.0	94.0	19.0	8.9
15	76.3	85.4	92.5	95.0	95.0	18.7	9.1
17	77.3	86.7	93.6	95.9	95.9	18.6	9.4
19	77.0	86.8	94.3	96.1	96.1	19.1	9.8
21	77.4	87.4	94.9	96.3	96.3	18.9	10.0
23	78.0	87.5	95.2	96.7	96.7	18.7	9.5
25	78.9	87.6	95.2	96.8	96.8	17.9	8.7
27	79.0	87.5	94.8	96.7	96.7	17.7	8.5
29	78.9	87.5	94.9	96.7	96.7	17.8	8.6
31	78.2	87.0	94.9	96.3	96.3	18.1	8.8
33	77.2	86.5	95.1	95.7	95.7	18.5	9.3
35	76.3	86.4	95.6	95.7	95.7	19.4	10.1
37	77.9	87.5	96.3	96.5	96.5	18.6	9.6
39	82.3	88.8	97.1	97.9	97.9	15.6	6.5
41	86.2	91.5	97.8	100.3	100.3	14.1	5.3
43	86.1	91.5	97.1	100.2	100.2	14.1	5.4
45	81.3	88.3	96.3	97.4	97.4	16.1	7.0
47	82.7	89.4	96.4	98.0	98.0	15.3	6.7
49	86.2	91.3	96.6	100.1	100.1	13.9	5.1
51	88.6	93.1	96.9	101.5	101.5	12.9	4.5
53	86.5	92.1	96.0	100.7	100.7	14.2	5.6
O.H. 55 → 56	82.5	90.8	95.9	98.6	98.6	16.1	8.3
57	84.0	92.3	97.7	100.1	100.1	16.1	8.3
59	83.3	91.8	97.5	99.9	99.9	16.6	8.5
61	83.5	91.0	97.0	99.3	99.3	15.8	7.5
63	83.8	90.1	95.6	98.2	98.2	14.4	6.3
65	81.6	87.6	93.0	96.5	96.5	14.9	6.0
67	79.1	85.2	90.5	94.5	94.5	15.4	6.1
69	77.2	83.3	87.9	93.1	93.1	15.9	6.1
71	74.8	81.5	84.9	92.0	92.0	17.2	6.7
73	72.9	80.1	83.7	91.5	91.5	18.6	7.2
75	72.3	79.4	82.6	91.3	91.3	19.0	7.1
77	69.4	78.4	81.4	91.1	91.1	21.7	9.0
79	70.9	79.0	81.2	91.2	91.2	20.3	8.1

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 23, 100 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
4	66.4	77.7	79.9	91.0	91.0	24.6	11.3
7	67.8	78.7	81.2	91.4	91.4	23.6	10.9
10	68.8	78.9	81.7	91.5	91.5	22.7	10.1
13	68.2	78.5	81.5	91.4	91.4	23.2	10.3
16	67.5	78.4	82.4	91.5	91.5	24.0	10.9
19	67.1	78.8	83.5	91.6	91.6	24.5	11.7
22	68.0	79.5	85.5	91.9	91.9	23.9	11.5
25	70.2	81.0	88.5	92.6	92.6	22.4	10.8
28	72.2	82.7	90.8	93.3	93.3	21.1	10.5
31	72.6	83.4	92.1	93.6	93.6	21.0	10.8
34	75.5	85.7	94.0	95.5	95.5	20.0	10.2
37	76.3	86.5	94.8	95.9	95.9	19.6	10.2
40	75.7	85.9	94.2	95.4	95.4	19.7	10.2
43	75.3	85.8	93.9	95.2	95.2	19.9	10.5
46	77.4	87.2	95.5	96.4	96.4	19.0	9.8
49	76.9	86.8	95.5	96.1	96.1	19.2	9.9
52	77.2	87.7	96.8	96.5	96.5	19.3	10.5
55	78.7	88.8	98.0	97.8	97.8	19.1	10.1
58	80.2	88.4	97.8	97.6	97.6	17.4	8.2
61	79.4	87.8	97.3	96.4	96.4	17.0	8.4
64	81.3	89.0	96.1	97.3	97.3	16.0	7.7
O.H. 67→69	81.5	89.5	94.9	97.9	97.9	16.4	8.0
70	82.7	90.8	96.5	99.2	99.2	16.5	8.1
73	83.1	91.1	96.9	99.4	99.4	16.3	8.0
74	83.9	91.2	97.0	99.7	99.7	15.8	7.3
77	81.8	87.8	93.3	96.4	96.4	14.6	6.0
80	78.8	85.6	90.7	94.5	94.5	15.7	6.8
83	76.1	82.8	87.6	92.8	92.8	16.7	6.7
86	73.1	80.1	83.5	91.4	91.4	18.3	7.0
89	71.6	79.5	81.0	91.2	91.2	19.6	7.9
92	72.7	79.8	80.8	91.2	91.2	18.5	7.1
95	69.0	78.3	78.6	90.9	90.9	21.9	9.3
98	68.8	78.4	77.6	90.9	90.9	22.1	9.6
101	67.4	78.0	76.8	90.8	90.8	23.4	10.6
104	66.0	77.7	75.6	90.7	90.7	24.7	11.7

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	73.0	81.8	87.0	92.8	92.8	19.8	8.8
3	74.0	82.5	89.1	93.2	93.2	19.2	8.5
5	75.4	84.5	91.6	93.9	93.9	18.5	9.1
7	78.3	87.1	94.1	96.0	96.0	17.7	8.8
9	83.6	91.2	98.2	100.1	100.1	16.5	7.6
11	86.9	95.3	101.7	103.4	103.4	16.5	8.4
13	89.5	97.9	103.9	105.1	105.1	15.6	8.4
15	91.0	99.0	104.8	106.1	106.1	15.1	8.0
17	90.5	98.8	104.5	105.9	105.9	15.4	8.3
19	88.5	96.7	103.1	104.4	105.4	15.9	8.2
21	86.4	93.9	101.4	102.6	102.6	16.2	7.5
23	84.9	92.2	100.4	101.2	101.2	16.3	7.3
25	85.9	94.2	101.9	102.1	102.1	16.2	8.3
27	86.9	96.2	103.6	103.6	103.6	16.7	9.3
29	87.3	97.0	105.0	104.4	104.4	17.1	9.7
31	87.4	97.4	105.6	104.8	104.8	17.4	10.0
33	85.5	95.2	104.1	103.7	104.9	18.2	9.7
35	84.3	93.9	103.4	102.3	102.3	18.0	9.6
37	86.3	94.7	102.8	101.9	101.9	15.6	8.4
O.H. → 39 → 40	88.2	95.7	101.6	103.2	103.2	15.0	7.5
41	88.1	95.6	101.7	103.6	103.6	15.5	7.5
43	86.9	94.2	99.8	102.6	102.6	15.7	7.3
45	84.8	90.8	96.8	99.3	99.3	14.5	6.0
47	81.2	86.9	92.8	95.6	95.6	14.4	5.7
49	78.4	84.6	89.7	93.7	93.7	15.3	6.2
51	76.5	82.8	87.2	92.7	92.7	16.2	6.3
53	74.1	80.9	84.5	91.7	91.7	17.6	6.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	76.6	85.0	91.6	94.9	94.9	18.3	8.4
	2	77.0	85.8	93.1	95.8	95.8	18.8	8.8
	3	77.7	87.0	94.9	96.8	96.8	19.1	9.3
	4	79.1	89.0	96.9	98.0	98.0	18.9	9.9
	5	81.0	91.0	98.8	99.6	99.6	18.6	10.0
	6	83.2	93.1	100.7	101.6	101.6	18.4	9.9
	7	85.3	95.0	102.4	103.3	103.3	18.0	9.7
	8	87.1	96.7	103.9	104.9	104.9	17.8	9.6
	9	89.8	98.5	105.1	106.4	106.4	16.6	8.7
	10	91.8	100.1	106.1	107.6	107.6	15.8	8.3
	11	92.6	100.7	106.5	108.1	108.1	15.5	8.1
	12	92.7	100.5	106.3	107.7	107.7	15.0	7.8
	13	91.9	99.7	105.6	107.0	107.0	15.1	7.8
	14	91.0	99.2	105.1	106.3	106.3	15.3	8.2
	15	90.1	98.8	104.9	105.7	105.7	15.6	8.7
	16	89.7	98.7	105.0	105.8	105.8	16.1	9.0
	17	89.3	98.2	104.9	105.5	105.5	16.2	8.9
	18	88.7	97.4	104.4	105.0	105.0	16.3	8.7
	19	87.7	96.1	103.8	104.0	104.0	16.3	8.4
	20	86.6	95.0	103.2	103.4	103.4	16.8	8.4
	21	86.0	94.5	103.3	103.1	103.1	17.1	8.5
	22	86.2	94.9	103.7	103.2	103.2	17.0	8.7
	23	86.7	95.6	104.3	103.7	103.7	17.0	8.9
	24	86.8	95.9	104.7	103.9	103.9	17.1	9.1
	25	86.3	96.1	104.9	104.1	104.1	17.8	9.8
	26	85.8	96.0	104.9	104.3	104.3	18.5	10.2
	27	85.4	95.8	104.7	104.2	104.2	18.8	10.4
	28	84.8	95.0	104.1	103.6	103.6	18.8	10.2
	29	84.9	94.6	103.5	102.7	102.7	17.8	9.7
	30	85.9	94.7	103.1	102.0	102.0	16.1	8.8
	31	86.7	95.1	102.2	102.4	102.4	15.7	8.4
O.H. →	32	87.1	95.0	101.3	102.6	102.6	15.5	7.9
	33	86.7	94.5	100.9	102.4	102.4	15.7	7.8
	34	86.4	94.2	100.8	102.5	102.5	16.1	7.8
	35	85.9	93.6	100.3	102.1	102.1	16.2	7.7
	36	86.1	93.5	99.4	102.0	102.0	15.9	7.4
	37	85.9	92.6	98.6	101.3	101.3	15.4	6.7
	38	85.3	91.7	97.4	100.0	100.0	14.7	6.4
	39	83.8	89.5	95.3	98.1	98.1	14.3	5.7
	40	82.1	88.0	93.6	96.6	96.6	14.5	5.9
	41	80.1	86.3	92.1	95.1	95.1	15.0	6.2
	42	78.3	84.6	90.5	93.9	93.9	15.6	6.3

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	76.8	85.7	92.0	94.9	94.9	18.1	8.9
2	77.2	85.8	92.7	94.9	94.9	17.7	8.6
3	77.6	86.4	94.2	96.1	96.1	18.5	8.8
4	79.3	89.0	96.8	97.9	97.9	18.6	9.7
5	83.8	93.5	100.2	101.5	101.5	17.7	9.7
6	88.2	97.2	103.2	104.5	104.5	16.3	9.0
7	91.8	100.1	105.3	106.5	106.5	14.7	8.3
8	92.9	100.9	106.1	107.4	107.4	14.5	8.0
9	92.4	100.2	105.6	107.0	107.0	14.6	7.8
10	90.2	98.0	104.2	105.8	105.8	15.6	7.8
11	88.2	96.1	102.9	104.3	104.3	16.1	7.9
12	87.6	95.8	102.5	103.9	103.9	16.3	8.2
13	86.9	95.5	102.4	103.5	103.5	16.6	8.6
14	86.1	94.8	102.2	103.0	103.0	16.9	8.7
15	86.0	94.4	102.5	102.9	102.9	16.9	8.4
16	86.9	95.1	103.0	103.2	103.2	16.3	8.2
17	87.5	95.9	103.5	103.9	103.9	16.4	8.4
18	88.6	96.7	104.4	104.9	104.9	16.3	8.1
19	89.7	97.8	105.3	106.1	106.1	16.4	8.1
20	89.7	97.9	105.5	106.3	106.3	16.6	8.2
21	88.6	97.1	104.9	105.4	105.4	16.8	8.5
22	86.5	95.5	104.1	104.0	104.0	17.5	9.0
23	85.6	95.2	104.0	103.6	104.7	18.0	9.6
24	86.1	95.7	104.3	104.0	105.2	17.9	9.6
25	86.2	95.5	104.2	104.0	104.0	17.8	9.3
26	86.7	95.3	103.7	103.7	103.7	17.0	8.6
27	87.1	95.2	103.3	103.1	103.1	16.0	8.1
28	88.0	95.6	103.1	103.3	103.3	15.3	7.6
29	88.4	95.8	102.7	103.4	103.4	15.0	7.4
30	89.0	96.2	102.3	103.8	103.8	14.8	7.2
O.H. → 31	88.6	95.8	101.8	103.5	103.5	14.9	7.2
32	87.7	95.0	101.4	103.2	103.2	15.5	7.3
33	86.4	93.9	100.6	102.5	102.5	16.1	7.5
34	85.7	93.2	99.5	101.8	101.8	16.1	7.5
35	85.3	92.3	98.4	100.9	100.9	15.6	7.0
36	84.4	90.9	97.2	99.3	99.3	14.9	6.5
37	83.9	89.8	95.7	97.9	97.9	14.0	5.9
38	82.6	88.2	94.3	96.9	96.9	14.3	5.6
39	81.0	86.7	92.6	95.5	95.5	14.5	5.7
40	79.3	85.1	90.9	94.1	94.1	14.8	5.8

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	80.1	87.5	94.8	97.1	97.1	17.0	7.4
2	79.6	87.4	96.0	97.5	97.5	17.9	7.8
3	80.1	88.2	97.2	98.7	98.7	18.6	8.1
4	83.7	91.5	99.3	100.8	100.8	17.1	7.8
5	90.4	97.9	102.8	105.4	105.4	15.0	7.5
6	94.3	101.6	106.2	108.5	108.5	14.2	7.3
7	96.0	103.3	107.7	110.0	110.0	14.0	7.3
8	95.9	103.2	107.9	110.0	110.0	14.1	7.3
9	95.1	102.4	107.2	109.3	109.3	14.2	7.3
10	93.6	101.3	106.7	108.3	109.3	14.7	7.7
11	94.4	102.1	107.3	108.8	110.6	14.4	7.7
12	93.9	102.3	108.1	109.1	110.8	15.2	8.4
13	93.8	102.4	108.6	109.7	111.1	15.9	8.6
14	92.7	101.9	108.6	109.6	109.6	16.9	9.2
15	92.5	101.3	108.2	109.4	109.4	16.9	8.8
16	91.7	100.5	107.7	108.4	108.4	16.7	8.8
17	90.1	99.2	106.9	107.1	107.1	17.0	9.1
18	89.6	98.3	106.3	106.0	107.2	16.4	8.7
19	89.2	97.8	105.7	105.5	106.5	16.3	8.6
20	88.9	97.1	105.1	105.1	105.1	16.2	8.2
21	88.9	96.8	104.8	104.5	104.5	15.6	7.9
22	89.2	96.6	104.7	104.6	104.6	15.4	7.4
23	89.1	96.5	104.2	104.1	104.1	15.0	7.4
24	88.7	96.3	103.0	103.9	103.9	15.2	7.6
25	89.2	96.7	102.6	104.4	104.4	15.2	7.5
O.H.→26	89.7	97.1	102.8	104.8	104.8	15.1	7.4
27	89.3	96.8	102.8	104.8	104.8	15.5	7.5
28	88.7	96.1	102.0	104.1	104.1	15.4	7.4
29	87.9	94.8	100.9	103.4	103.4	15.5	6.9
30	87.0	93.5	99.8	102.0	102.0	15.0	6.5
31	85.4	91.6	98.0	100.3	100.3	14.9	6.2
32	82.9	88.7	95.3	97.1	97.1	14.2	5.8
33	81.1	86.8	92.9	95.6	95.6	14.5	5.7
34	79.3	85.0	90.5	94.2	94.2	14.9	5.7

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 28, 150 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	76.9	85.9	93.2	.0	.0	-76.8	9.0
	2	79.4	88.9	96.0	97.7	97.7	18.3	9.5
	3	82.2	92.0	98.8	99.9	99.9	17.7	9.8
	4	84.6	94.5	100.9	102.0	102.0	17.4	9.9
	5	88.4	97.0	103.2	104.3	104.3	15.9	8.6
	6	90.7	99.1	105.3	106.3	106.3	15.6	8.4
	7	93.0	101.3	107.3	108.2	108.2	15.2	8.3
	8	96.0	103.8	108.9	110.3	110.3	14.3	7.8
	9	97.4	104.8	109.8	111.2	111.2	13.8	7.4
	10	97.6	104.9	109.8	111.4	111.4	13.8	7.3
	11	96.2	103.8	109.0	110.5	110.5	14.3	7.6
	12	94.2	102.2	107.9	109.4	109.4	15.2	8.0
	13	92.5	100.6	107.0	108.3	108.3	15.8	8.1
	14	92.3	99.8	106.6	107.8	107.8	15.5	7.5
	15	92.3	100.0	107.0	107.9	107.9	15.6	7.7
	16	92.3	100.5	107.5	108.2	108.2	15.9	8.2
	17	92.3	100.9	107.9	108.5	108.5	16.2	8.6
	18	92.1	100.9	108.0	108.4	108.4	16.3	8.8
	19	91.7	100.5	107.9	108.0	108.0	16.3	8.8
	20	90.6	99.6	107.5	107.3	107.3	16.7	9.0
	21	90.1	98.6	106.9	106.7	106.7	16.6	8.5
	22	90.1	97.8	106.2	106.1	106.1	16.0	7.7
	23	91.0	98.1	106.0	105.8	105.8	14.8	7.1
	24	91.2	98.1	105.4	105.9	105.9	14.7	6.9
O.H. →	25	91.1	97.9	104.6	105.7	105.7	14.6	6.8
	26	90.1	97.1	103.1	104.9	104.9	14.8	7.0
	27	89.8	96.7	102.6	104.8	104.8	15.0	6.9
	28	89.2	96.1	101.8	104.3	104.3	15.1	6.9
	29	88.9	95.4	101.0	103.6	103.6	14.7	6.5
	30	87.4	93.5	99.2	101.7	101.7	14.3	6.1
	31	85.6	91.3	97.0	100.0	100.0	14.4	5.7
	32	83.3	88.6	94.5	97.5	97.5	14.2	5.3
	33	81.4	87.0	92.8	95.7	95.7	14.3	5.6

TABLE H-V

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 29, 150 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

	INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
	1	82.9	89.1	95.2	98.4	98.4	15.5	6.2
	2	84.2	90.7	97.3	99.6	99.6	15.4	6.5
	3	86.0	92.9	99.8	101.4	101.4	15.4	6.9
	4	87.1	94.7	101.9	103.2	103.2	16.1	7.6
	5	89.6	97.2	104.5	105.7	105.7	16.1	7.6
	6	90.7	99.2	106.4	107.4	107.4	16.7	8.5
	7	92.9	101.2	107.9	109.2	109.2	16.3	8.3
	8	96.1	103.5	109.1	111.1	111.1	15.0	7.4
	9	98.2	104.8	109.8	112.3	112.3	14.1	6.6
	10	98.9	105.3	110.2	112.9	112.9	14.0	6.4
	11	98.8	105.6	110.5	113.3	113.3	14.5	6.8
	12	99.3	106.3	110.9	113.5	113.5	14.2	7.0
	13	99.2	106.6	111.1	113.4	113.4	14.2	7.4
	14	99.3	106.3	110.8	113.2	113.2	13.9	7.0
	15	98.4	105.5	110.7	112.8	112.8	14.4	7.1
	16	97.8	104.7	110.3	112.4	112.4	14.6	6.9
	17	96.3	103.9	110.1	111.6	111.6	15.3	7.6
	18	94.4	102.5	109.2	110.2	110.2	15.8	8.1
	19	92.7	101.2	108.5	108.8	108.8	16.1	8.5
	20	90.5	99.5	107.3	107.3	108.3	16.8	9.0
	21	89.3	98.4	106.8	106.3	106.3	17.0	9.1
	22	89.1	97.8	106.6	105.5	105.5	16.4	8.7
	23	90.7	98.4	106.5	105.9	105.9	15.2	7.7
	24	91.6	98.8	105.7	106.7	106.7	15.1	7.2
O.H →	25	92.0	99.0	105.0	106.7	106.7	14.7	7.0
	26	91.7	98.5	104.2	106.3	106.3	14.6	6.8
	27	91.3	98.0	103.9	106.0	106.0	14.7	6.7
	28	90.7	97.3	102.8	105.4	105.4	14.7	6.6
	29	90.2	96.6	101.8	104.4	104.4	14.2	6.4
	30	88.8	95.1	100.3	103.1	103.1	14.3	6.3
	31	86.8	92.8	98.2	101.2	101.2	14.4	6.0
	32	83.5	89.1	94.8	98.2	98.2	14.7	5.6
	33	81.3	86.9	92.3	95.8	95.8	14.5	5.6

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 30, 126 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.6	80.9	87.5	92.4	92.4	21.8	10.3
2	71.9	82.1	89.4	92.8	92.8	20.9	10.2
3	74.0	83.9	91.7	93.6	93.6	19.6	9.9
4	76.7	86.3	94.0	95.4	95.4	18.7	9.6
5	79.0	88.3	96.2	97.5	97.5	18.5	9.3
6	81.0	90.2	98.6	99.3	99.3	18.3	9.2
7	83.1	92.7	100.8	101.2	101.2	18.1	9.6
8	86.2	95.5	103.0	103.5	103.5	17.3	9.3
9	88.5	97.6	104.5	104.9	104.9	16.4	9.1
10	88.8	98.0	104.9	105.1	105.1	16.3	9.2
11	87.6	97.1	104.2	104.3	104.3	16.7	9.5
12	84.7	94.8	102.7	102.5	102.5	17.8	10.1
13	82.2	92.4	101.1	100.7	100.7	18.5	10.2
14	80.8	90.7	100.0	99.8	99.8	19.0	9.9
15	80.9	90.7	100.3	99.9	99.9	19.0	9.8
16	83.0	92.0	101.5	101.0	102.0	18.0	9.0
17	83.5	92.5	102.3	101.5	102.6	18.0	9.0
18	83.6	92.7	102.5	101.8	101.8	18.2	9.1
19	83.0	92.6	102.4	101.8	101.8	18.8	9.6
20	83.1	92.6	102.3	101.8	101.8	18.7	9.5
21	83.2	92.4	102.0	101.8	101.8	18.6	9.2
22	83.5	92.2	101.7	101.9	101.9	18.4	8.7
23	83.3	91.6	101.3	101.3	101.3	18.0	8.3
24	83.2	91.0	100.8	100.3	100.3	17.1	7.8
25	83.9	91.8	100.3	100.0	100.0	16.1	7.9
26	84.7	92.9	99.6	100.5	100.5	15.8	8.2
27	85.3	93.4	99.1	101.0	101.0	15.7	8.1
O.H.→ 28	85.3	93.4	99.6	101.5	101.5	16.2	8.1
29	86.0	93.5	100.2	102.1	102.1	16.1	7.5
30	86.0	93.4	100.2	102.0	102.0	16.0	7.4
31	85.5	92.7	99.1	101.2	101.2	15.7	7.2
32	84.8	91.5	97.9	100.2	100.2	15.4	6.7
33	84.3	90.3	96.7	98.8	98.8	14.5	6.0
34	83.7	89.0	95.4	97.5	97.5	13.8	5.3
35	82.2	87.5	93.6	96.2	96.2	14.0	5.3
36	80.7	86.1	92.1	94.9	94.9	14.2	5.4
37	79.3	85.2	91.3	94.2	94.2	14.9	5.9
38	78.1	84.0	90.2	93.5	93.5	15.4	5.9
39	76.7	83.0	89.4	92.9	92.9	16.2	6.3

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 31, 126 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	70.7	80.9	86.7	92.3	92.3	21.6	10.2
2	72.4	82.0	88.2	92.7	92.7	20.3	9.6
3	74.0	83.2	89.7	93.3	93.3	19.3	9.2
4	75.4	84.2	91.0	94.0	94.0	18.6	8.8
5	76.0	84.8	92.1	94.3	94.3	18.3	8.8
6	76.2	85.2	93.1	95.0	95.0	18.8	9.0
7	76.8	86.3	94.6	96.1	96.1	19.3	9.5
8	78.8	88.0	96.4	97.6	97.6	18.8	9.2
9	81.2	90.2	98.5	99.5	99.5	18.3	9.0
10	83.2	92.2	100.5	101.1	101.1	17.9	9.0
11	85.1	94.1	102.1	102.2	102.2	17.1	9.0
12	86.8	95.5	103.0	103.4	103.4	16.6	8.7
13	87.8	96.3	103.3	103.9	103.9	16.1	8.5
14	87.9	96.3	103.3	103.9	103.9	16.0	8.4
15	87.2	95.6	103.2	103.6	103.6	16.4	8.4
16	86.3	94.6	103.0	103.2	103.2	16.9	8.3
17	85.8	94.5	102.8	102.9	102.9	17.1	8.7
18	86.2	95.1	102.8	102.8	102.8	16.6	8.9
19	86.5	95.2	102.8	102.7	102.7	16.2	8.7
20	86.3	95.0	102.6	102.6	102.6	16.3	8.7
21	85.7	94.3	102.2	102.5	102.5	16.8	8.6
22	85.2	94.1	102.3	102.4	102.4	17.2	8.9
23	84.7	93.8	102.4	102.2	102.2	17.5	9.1
24	84.1	93.4	102.3	102.0	102.0	17.9	9.3
25	83.8	92.8	102.2	101.9	101.9	18.1	9.0
26	83.2	92.1	102.1	101.8	101.8	18.6	8.9
27	83.4	91.7	101.9	101.5	101.5	18.1	8.3
28	83.8	92.3	101.6	101.0	101.0	17.2	8.5
29	85.3	93.2	100.7	101.5	101.5	16.2	7.9
30	86.9	94.6	100.3	102.5	102.5	15.6	7.7
31	87.3	94.8	100.1	102.8	102.8	15.5	7.5
O.H → 32	87.6	95.1	100.9	103.0	103.0	15.4	7.5
33	87.4	95.1	101.3	103.0	103.0	15.6	7.7
34	87.1	95.0	101.1	102.8	102.8	15.7	7.9
35	86.0	93.7	99.8	101.9	101.9	15.9	7.7
36	85.3	92.2	98.1	100.7	100.7	15.4	6.9
37	84.6	90.5	96.6	98.9	98.9	14.3	5.9
38	83.7	89.3	95.0	97.5	97.5	13.8	5.6
39	81.2	86.8	92.8	95.4	95.4	14.2	5.6
40	79.0	84.7	90.2	93.7	93.7	14.7	5.7
41	77.3	83.6	88.6	92.9	92.9	15.6	6.3
42	77.0	83.5	87.8	92.8	92.8	15.8	6.5
43	76.4	82.8	87.4	92.5	92.5	16.1	6.4

TABLE H-IV

NOISE LEVEL TIME HISTORY DATA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 35, 3 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	78.1	85.9	91.3	95.8	95.8	17.7	7.8
4	81.4	88.3	92.8	97.1	97.1	15.7	6.9
7	81.2	87.8	93.3	97.2	97.2	16.0	6.6
10	81.0	88.8	93.8	97.6	97.6	16.6	7.8
13	81.5	88.6	93.5	98.2	98.2	16.7	7.1
16	80.9	89.0	93.7	97.5	97.5	16.6	8.1
19	82.4	89.4	94.4	98.1	98.1	15.7	7.0
22	82.2	89.5	94.3	98.1	98.1	15.9	7.3
25	80.7	88.6	93.9	97.4	97.4	16.7	7.9
28	79.2	86.7	92.2	96.1	96.1	16.9	7.5
31	76.2	84.5	90.9	94.5	94.5	18.3	8.3
34	73.1	82.3	90.1	93.4	93.4	20.3	9.2
37	73.8	82.4	89.9	93.4	93.4	19.6	8.6
40	74.6	83.1	90.0	93.6	93.6	19.0	8.5
43	76.2	83.7	89.7	93.9	93.9	17.7	7.5
46	76.1	84.2	89.3	93.9	93.9	17.8	8.1
49	80.1	86.0	91.4	95.6	95.6	15.5	5.9
52	78.4	85.3	91.9	95.4	95.4	17.0	6.9
55	81.0	86.9	93.4	96.9	96.9	15.9	5.9
58	80.5	87.2	93.2	96.5	98.1	16.0	6.7
61	83.6	89.3	94.2	98.1	98.1	14.5	5.7
64	84.1	89.3	94.6	99.1	100.7	15.0	5.2
67	85.6	90.5	95.0	99.3	99.3	13.7	4.9
70	86.5	91.7	97.7	101.1	102.2	14.6	5.2
73	88.8	94.0	98.3	102.5	102.5	13.7	5.2
76	90.8	95.7	99.7	103.9	103.9	13.1	4.9
79	92.5	98.3	101.9	106.6	106.6	14.1	5.8
82	93.8	99.2	102.8	107.4	107.4	13.6	5.4
O.H.→ 85	93.7	99.7	103.2	107.1	107.1	13.4	6.0
87	94.4	100.8	104.6	107.6	107.6	13.2	6.4
90	91.1	97.7	102.5	105.2	105.2	14.1	6.6
93	90.9	97.4	102.3	104.7	104.7	13.8	6.5
96	85.7	91.6	97.3	99.6	99.6	13.9	5.9
99	83.8	89.8	94.5	98.4	99.5	14.6	6.0
102	79.1	85.3	91.2	94.6	94.6	15.5	6.2
105	75.6	82.6	89.2	93.1	94.3	17.5	7.0
108	74.6	81.6	87.4	92.3	92.3	17.7	7.0
111	70.5	79.4	85.7	.0	.0	-70.4	8.9

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 12, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-22.0	-18.0	-14.0	-10.0	-6.0	-2.0	0	2.0	6.0	7.0
17	84.3	86.9	89.1	89.1	86.9	89.5	90.9	90.5	82.4	82.5
18	85.8	84.1	86.4	87.7	80.0	90.0	89.5	85.3	84.5	85.4
19	84.8	82.8	84.8	83.7	73.9	85.9	86.1	79.9	77.2	79.2
20	82.7	81.7	83.7	79.3	77.2	85.4	81.7	79.2	76.1	80.9
21	74.2	75.7	78.6	80.8	79.5	76.1	76.0	71.8	78.1	77.8
22	76.8	78.5	80.0	79.1	74.7	84.1	83.7	77.4	75.4	77.5
23	81.9	76.6	79.1	73.1	85.0	87.9	88.0	84.5	72.6	69.0
24	76.7	77.9	74.5	83.1	89.9	88.3	84.9	85.6	78.5	73.3
25	76.1	72.4	71.5	82.6	86.2	81.8	79.8	82.6	80.2	78.1
26	73.1	61.6	74.7	83.1	82.9	73.6	76.5	73.6	79.9	79.3
27	73.2	71.8	77.5	82.0	80.3	78.8	78.8	79.4	73.4	77.0
28	74.3	74.3	78.2	74.8	81.3	72.2	74.4	74.4	72.1	69.9
29	76.1	73.5	71.5	79.4	76.5	73.8	74.2	75.6	72.8	72.9
30	71.3	65.7	68.2	72.8	77.9	71.9	71.6	72.5	70.3	67.8
31	68.0	64.4	67.6	74.7	75.0	69.0	69.5	69.9	67.4	67.3
32	65.8	64.5	64.8	71.8	72.3	69.3	69.8	70.5	69.0	67.4
33	63.2	61.2	62.3	67.7	68.9	66.2	66.2	66.6	63.2	62.2
34	57.9	57.3	57.2	64.3	65.6	63.7	63.9	65.1	60.5	59.9
35	55.0	55.2	55.0	59.6	63.1	62.4	62.7	65.3	59.7	59.2
36	55.0	55.0	55.0	55.9	59.7	60.6	61.3	62.4	57.4	56.3
37	55.0	55.0	55.0	55.0	55.8	57.4	58.3	59.1	55.5	55.0
38	55.0	55.0	55.0	55.0	55.0	55.1	55.4	56.1	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	80.9	79.3	81.6	86.4	88.4	85.3	84.5	84.5	81.3	80.7
D	86.2	84.3	86.7	91.3	93.2	92.1	91.1	90.5	86.7	86.0
OASPL	92.5	92.8	94.2	95.2	96.6	97.9	97.0	95.5	91.1	91.5
PNL	94.7	92.8	94.8	98.4	100.6	99.7	99.2	98.2	94.8	94.4
PNLT	95.8	92.8	96.0	100.3	100.6	99.7	99.2	98.2	96.0	95.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 22, 100 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.0	-14.0	-11.0	-8.0	-5.0	-2.0	0	1.0	4.0	7.0
17	76.7	80.4	85.1	88.0	88.3	85.2	85.8	85.9	86.2	79.0
18	83.6	82.3	85.2	88.7	89.7	80.3	89.0	87.4	81.2	74.9
19	84.0	84.7	86.1	81.0	87.9	80.7	87.5	85.3	76.4	68.6
20	78.7	76.6	83.7	81.5	83.3	84.3	83.7	78.7	68.7	70.3
21	76.8	75.9	76.2	75.7	79.6	78.6	75.5	73.9	64.1	69.0
22	73.0	72.7	74.8	78.3	79.4	73.4	82.6	78.1	72.4	59.6
23	69.9	72.9	74.8	80.4	73.8	80.6	84.2	80.9	75.7	65.8
24	62.0	69.0	74.4	77.6	72.1	80.1	83.9	79.0	76.5	69.4
25	58.0	64.5	71.9	71.8	71.8	81.2	75.1	70.0	74.5	72.2
26	57.0	62.0	70.7	65.7	77.0	77.6	71.2	71.8	70.9	70.3
27	60.0	58.4	67.3	70.9	76.3	74.1	71.1	68.9	74.7	65.9
28	62.2	57.1	66.1	73.1	67.3	74.2	67.4	69.7	69.5	69.2
29	62.6	61.3	64.7	71.0	67.1	71.2	67.0	69.0	72.3	64.8
30	57.3	61.1	61.2	64.4	66.4	72.0	67.0	67.2	71.3	65.8
31	55.0	56.6	59.7	64.4	61.8	71.1	65.4	65.2	68.2	63.1
32	55.0	55.4	57.4	60.7	63.1	68.5	68.3	68.1	69.2	63.5
33	55.0	55.0	55.0	60.7	62.6	66.3	64.4	64.1	66.4	59.7
34	55.0	55.0	55.0	55.6	58.4	63.1	62.0	61.7	62.9	57.4
35	55.0	55.0	55.0	55.0	57.0	61.3	61.5	60.8	62.0	56.1
36	55.0	55.0	55.0	55.0	55.1	59.2	59.5	59.4	59.9	55.0
37	55.0	55.0	55.0	55.0	55.0	56.7	57.8	57.7	57.3	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.0	55.1	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	70.4	71.2	75.6	78.4	79.2	82.2	81.2	79.2	80.1	75.1
D	80.7	81.7	84.4	85.4	87.0	88.1	88.9	86.7	85.4	80.4
OASPL	90.8	92.0	93.7	94.3	94.9	94.1	96.1	95.2	91.2	87.2
PNL	88.4	89.1	91.9	93.4	94.4	95.8	96.4	94.1	92.6	87.8
PNLT	88.4	89.1	91.9	93.4	94.4	95.8	97.6	95.3	92.6	89.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 23, 100 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-18.5	-15.0	-11.5	-8.0	-4.5	-1.0	0	.5	2.5	6.0	8.0
17	77.1	83.2	83.7	88.2	86.5	85.4	84.8	85.9	85.6	79.3	73.2
18	79.5	85.1	84.1	89.0	89.2	86.8	88.8	88.7	80.8	75.8	69.7
19	82.3	88.4	86.2	80.9	88.2	86.5	87.0	86.3	80.3	74.6	73.3
20	76.7	81.2	80.8	83.6	84.6	85.5	82.7	80.4	71.2	75.0	71.5
21	73.5	82.4	78.5	76.7	80.3	74.1	74.0	74.7	68.5	71.5	68.2
22	70.3	76.9	74.6	72.1	76.4	79.5	79.5	79.6	78.5	60.6	62.3
23	67.0	76.0	76.1	74.5	69.0	80.7	81.6	81.7	79.7	67.3	58.2
24	58.4	68.5	74.6	69.0	73.8	80.6	79.7	80.1	78.5	73.2	62.1
25	55.0	65.4	70.6	62.4	73.6	74.8	72.6	71.9	71.7	74.3	65.2
26	55.0	55.2	65.6	59.4	76.5	69.1	70.8	72.2	73.7	73.2	68.4
27	55.1	55.8	63.4	65.9	74.7	72.2	71.3	71.0	74.4	66.8	66.2
28	55.0	56.5	61.2	66.1	63.6	67.4	68.6	69.9	72.2	70.6	61.0
29	55.0	56.2	60.9	62.4	67.9	68.3	68.1	69.3	70.9	65.6	65.0
30	55.0	55.1	61.6	55.6	64.7	66.9	68.1	68.4	69.8	67.0	59.8
31	55.0	55.0	59.7	58.6	62.1	66.0	66.1	66.5	68.6	64.9	61.0
32	55.0	55.0	56.7	57.1	62.9	67.9	69.3	69.5	70.5	64.0	59.9
33	55.0	55.0	55.5	59.1	61.8	66.0	65.8	65.9	66.1	61.4	57.3
34	55.0	55.0	55.0	55.4	58.3	63.8	63.5	63.7	63.4	58.5	55.6
35	55.0	55.0	55.0	55.0	57.5	63.0	62.5	62.6	62.9	56.8	55.0
36	55.0	55.0	55.0	55.0	55.5	59.6	60.4	60.8	61.0	55.3	55.0
37	55.0	55.0	55.0	55.0	55.0	58.0	59.0	59.4	58.5	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.8	56.1	55.7	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	67.0	73.6	74.2	73.0	78.5	79.9	80.1	80.4	80.4	76.7	71.5
D	79.3	84.8	83.6	83.2	86.5	87.8	87.7	87.6	86.0	81.8	77.5
OASPL	89.6	94.9	93.5	94.2	94.7	94.6	95.2	95.5	92.5	88.8	84.6
PNL	86.3	91.6	91.3	91.5	94.2	95.0	95.1	95.2	93.8	89.6	85.3
PNLT	86.3	91.6	91.3	91.5	95.5	95.0	96.2	96.3	94.9	91.1	86.9

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-12.0	-9.5	-7.0	-5.5	-4.5	-2.0	0	.5	3.0
17	91.0	92.5	95.0	97.2	96.4	94.9	90.4	87.4	89.4	85.1
18	82.3	90.3	93.9	97.8	99.3	99.6	93.2	91.2	91.5	79.8
19	86.6	84.8	88.9	90.4	95.1	98.1	92.6	92.0	91.7	79.4
20	87.7	92.7	97.4	99.4	95.4	92.4	90.2	90.6	88.4	74.7
21	82.3	85.6	89.0	92.6	95.0	93.4	87.8	80.0	76.4	68.6
22	79.4	87.4	91.0	95.0	89.6	88.2	81.0	83.1	83.4	78.0
23	76.6	80.0	88.0	89.4	87.6	85.2	76.1	86.3	87.3	80.5
24	77.9	72.0	81.9	84.5	80.5	77.0	78.7	87.8	87.7	80.4
25	77.9	71.7	81.5	84.3	78.8	72.9	82.2	83.2	81.5	77.4
26	73.5	68.9	78.6	82.1	76.5	78.3	85.2	74.5	74.1	72.7
27	69.6	70.5	77.3	84.0	81.0	83.9	81.4	75.6	74.8	76.4
28	68.8	69.5	76.8	79.7	83.9	84.9	74.3	70.5	71.2	71.8
29	67.7	64.2	74.5	72.6	77.5	77.6	80.5	71.7	71.8	75.0
30	68.0	66.8	75.7	71.7	79.0	78.7	75.6	72.1	72.1	72.7
31	65.3	65.0	75.1	73.2	76.0	75.3	74.2	69.4	69.3	70.2
32	62.4	63.5	72.9	71.6	73.6	72.8	70.5	70.2	70.3	70.7
33	58.3	61.8	70.9	68.9	71.2	70.2	67.4	68.3	67.8	68.2
34	56.2	59.4	66.5	65.3	68.0	66.9	64.5	66.1	66.0	65.0
35	55.0	58.6	65.4	60.9	62.9	63.9	63.6	65.4	65.0	63.8
36	55.0	55.7	62.3	58.9	60.8	59.2	61.7	63.5	63.3	61.9
37	55.0	55.0	55.1	55.0	56.6	57.1	57.8	61.4	61.2	58.6
38	55.0	55.0	55.0	55.0	55.0	55.0	55.2	57.2	56.6	55.8
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	78.6	80.9	87.3	89.6	88.2	87.8	87.4	85.1	85.2	82.5
D	87.0	89.7	95.4	97.6	96.1	95.6	93.3	92.7	92.6	87.7
OASPL	95.1	97.7	101.9	104.5	103.8	104.0	101.5	98.7	98.2	91.3
PNL	95.1	97.8	103.4	105.0	103.8	103.5	100.6	100.2	100.0	95.1
PNLT	95.1	97.8	103.4	105.0	105.4	104.9	102.5	100.2	100.0	95.1

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.0	-9.5	-8.0	-6.5	-5.5	-5.0	-3.5	-2.0	-.5	0	1.5
17	92.6	95.8	96.7	97.5	97.8	97.5	93.2	90.8	84.5	86.1	88.4
18	88.4	92.9	95.9	99.3	100.9	100.7	97.5	93.6	87.3	89.4	87.3
19	85.6	90.0	92.8	93.4	96.8	97.6	97.7	93.5	88.8	90.0	87.9
20	89.6	97.6	101.3	100.8	97.5	95.4	94.4	92.1	88.9	89.0	79.4
21	82.9	90.6	94.1	96.5	98.0	97.5	89.0	88.5	83.3	79.8	73.1
22	81.8	89.8	96.6	96.4	92.2	90.8	86.6	80.0	81.1	82.2	82.2
23	80.8	84.3	93.9	91.1	91.8	91.3	79.9	75.2	84.2	85.7	85.4
24	76.0	78.2	88.5	85.9	84.2	82.6	69.5	77.4	85.3	87.2	84.4
25	73.7	79.9	88.0	83.3	79.6	77.9	73.0	81.2	82.5	82.4	76.1
26	74.1	79.8	86.1	79.9	78.2	79.1	81.1	85.8	77.6	74.6	76.8
27	76.4	79.7	87.5	81.1	84.5	85.8	83.7	81.2	75.0	75.7	75.0
28	73.3	76.9	83.2	78.8	87.1	88.4	80.3	74.6	72.9	71.0	72.8
29	72.5	71.1	82.0	75.2	83.2	83.3	76.2	80.0	71.9	73.0	72.2
30	71.9	70.5	80.7	76.1	80.2	80.7	77.9	75.6	72.0	72.7	71.0
31	70.1	73.5	78.3	75.1	80.8	81.8	70.9	74.8	69.6	69.9	69.7
32	72.6	72.0	76.9	70.7	77.8	77.6	70.9	72.1	69.6	70.2	70.8
33	70.4	67.7	76.3	69.8	76.5	76.6	67.6	70.2	69.3	69.7	68.1
34	62.2	63.5	71.7	67.3	75.7	75.3	64.4	66.9	66.0	66.6	65.6
35	58.1	60.0	68.2	66.5	70.5	70.6	60.7	64.0	65.8	66.2	64.8
36	56.1	55.7	61.1	60.3	66.5	66.3	57.5	64.0	63.9	64.2	62.7
37	55.0	55.0	58.2	57.1	61.1	60.7	55.3	57.7	60.9	61.9	61.0
38	55.0	55.0	55.3	55.0	62.0	61.4	55.0	55.6	57.7	58.1	57.2
39	55.0	55.0	55.0	55.0	56.7	56.5	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	82.1	85.6	93.7	90.3	92.9	92.8	86.6	86.8	84.1	84.6	83.6
D	89.5	94.5	100.6	99.1	99.4	99.2	94.6	93.0	91.3	92.0	89.8
OASPL	96.4	101.9	105.9	105.9	105.8	105.6	102.9	101.6	98.6	98.2	95.7
PNL	97.7	102.7	107.8	106.3	107.1	106.8	102.1	101.1	99.0	99.8	97.9
PNLT	97.7	102.7	107.8	106.3	108.4	108.3	103.6	102.8	99.0	99.8	97.9

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-13.5	-11.5	-9.5	-8.0	-7.5	-5.5	-3.5	-1.5	0	.5	2.0
17	93.6	97.0	98.0	98.0	97.4	96.2	94.0	88.8	87.0	88.7	87.6
18	77.0	91.8	96.5	98.2	98.8	99.5	98.0	88.6	90.5	90.8	82.8
19	88.5	94.5	89.4	89.6	92.9	98.1	98.6	87.5	91.2	90.8	82.5
20	85.9	98.3	99.4	98.8	99.0	93.0	96.5	87.5	88.4	85.8	74.7
21	81.1	93.3	91.6	94.7	96.2	95.3	87.6	84.9	78.0	76.0	73.1
22	77.0	91.4	93.3	96.0	95.1	91.2	86.0	79.2	83.5	84.0	80.2
23	74.0	90.1	91.9	91.4	91.5	87.9	79.1	81.6	86.2	86.1	83.5
24	72.9	83.7	86.5	88.0	88.9	82.0	71.9	81.6	86.5	85.9	81.0
25	70.7	79.3	85.0	83.8	83.5	73.8	77.4	79.4	79.7	77.4	74.4
26	69.2	77.3	81.0	78.7	77.0	71.1	84.4	80.3	75.6	77.0	77.2
27	69.3	76.0	81.3	78.0	76.4	79.0	84.9	74.6	74.6	73.9	75.3
28	68.9	73.6	79.6	77.2	77.1	83.4	79.0	74.0	71.3	72.2	75.1
29	68.3	72.4	78.4	75.4	77.8	80.4	78.4	72.9	72.3	72.5	74.2
30	68.5	72.4	79.7	77.9	77.6	70.8	78.1	72.3	71.9	71.6	72.1
31	68.3	71.2	76.1	80.6	79.7	72.0	75.0	70.4	69.7	69.8	70.7
32	66.4	68.0	75.3	76.1	75.8	69.8	73.0	69.0	69.5	69.8	70.4
33	65.0	65.3	71.2	72.0	71.9	67.8	71.8	69.1	68.7	68.6	68.7
34	65.0	65.0	68.8	71.0	70.4	65.4	67.4	66.7	67.2	67.1	65.8
35	65.0	65.0	65.6	67.6	67.5	65.0	65.8	65.7	66.3	66.1	65.1
36	65.0	65.0	65.7	65.0	65.0	65.0	65.0	65.2	65.2	65.2	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	77.5	87.0	89.3	91.2	91.0	88.3	88.6	84.2	84.6	84.2	82.8
D	87.1	95.7	96.6	98.2	98.2	95.5	95.3	90.9	92.3	91.8	88.8
OASPL	96.2	103.0	103.8	104.5	104.7	103.9	103.7	99.4	97.9	97.5	93.6
PNL	96.7	104.1	106.1	106.1	106.3	104.0	104.0	98.7	100.0	99.7	97.3
PNLT	96.7	104.1	106.1	107.3	106.3	105.4	104.0	98.7	100.0	99.7	97.3

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-12.5	-10.5	-8.5	-6.5	-5.0	-4.5	-2.5	-.5	0	1.5
17	84.9	94.4	94.8	94.8	98.7	96.4	96.0	93.8	87.8	89.3	88.1
18	78.2	84.0	89.2	92.5	100.1	100.7	100.0	93.2	91.1	91.9	84.9
19	85.1	87.3	87.3	83.6	96.4	101.0	100.7	93.1	92.0	92.2	84.5
20	87.8	92.9	98.0	93.8	97.8	97.9	98.5	92.6	90.1	88.5	76.6
21	85.8	92.0	89.4	85.5	97.3	95.4	91.3	90.8	79.6	77.0	74.3
22	84.6	90.0	90.1	88.0	93.5	94.7	93.4	85.8	82.6	83.1	81.6
23	81.5	90.7	85.5	84.7	94.4	90.1	86.7	80.0	87.1	87.1	84.5
24	75.8	83.7	80.7	83.4	89.6	86.1	82.5	80.8	88.5	88.1	82.8
25	73.0	78.9	82.4	81.8	83.6	75.9	73.7	84.2	83.1	80.8	77.0
26	71.3	75.9	81.4	78.8	78.4	80.7	85.7	89.7	75.5	75.2	76.4
27	69.7	76.1	82.8	77.8	78.2	88.1	90.5	87.6	77.1	76.7	76.1
28	67.4	73.0	77.8	75.1	80.8	88.9	89.6	78.1	72.0	72.6	74.2
29	66.9	70.5	73.4	72.0	83.7	83.4	82.4	81.3	73.5	73.1	74.6
30	66.3	70.0	69.2	72.9	80.8	78.5	82.0	80.3	72.9	72.6	73.0
31	65.4	67.6	68.9	69.6	80.0	79.6	79.0	77.4	71.0	70.8	71.4
32	65.0	65.6	68.1	72.5	78.9	78.6	80.0	76.1	70.8	70.6	71.3
33	65.0	65.0	66.4	68.3	74.8	76.0	76.9	75.0	70.4	70.0	70.0
34	65.0	65.0	65.0	66.2	73.1	71.7	71.8	69.9	67.9	67.8	67.7
35	65.0	65.0	65.0	65.1	70.8	69.1	69.4	68.0	67.2	66.9	66.2
36	65.0	65.0	65.0	65.0	65.9	67.0	67.4	66.2	65.7	65.4	65.3
37	65.0	65.0	65.0	65.0	65.0	65.4	66.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	79.2	85.3	86.9	84.9	91.5	93.0	93.5	91.8	86.0	85.5	83.5
D	88.7	93.6	94.0	91.5	98.8	99.5	99.2	97.1	93.5	93.1	90.1
OASPL	94.2	99.9	101.0	99.3	105.7	106.4	106.2	103.0	98.8	98.3	94.0
PNL	96.7	101.7	103.6	101.7	107.1	107.4	107.3	104.7	101.4	101.1	98.3
PNLT	96.7	101.7	103.6	102.8	107.1	108.5	108.3	104.7	101.4	101.1	98.3

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 28, 150 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.0	-7.0	-6.0	-5.0	-4.0	-3.0	-2.0	-1.0	0	.5
17	98.2	99.5	99.7	100.4	98.9	96.5	95.8	93.5	92.0	92.2
18	95.8	99.3	102.0	103.9	102.9	99.8	96.5	95.5	94.5	94.0
19	84.4	94.3	99.7	102.1	102.4	100.8	95.7	94.7	95.2	93.9
20	96.8	99.5	97.4	97.9	98.3	99.9	96.2	93.0	92.9	90.5
21	87.8	95.6	99.6	102.9	99.7	93.8	92.8	89.4	85.3	78.7
22	86.3	93.8	96.2	98.6	96.8	93.6	88.2	80.7	78.0	79.3
23	82.9	88.6	97.1	99.4	94.5	87.8	82.5	79.7	84.4	84.9
24	78.7	84.6	93.5	93.8	89.2	83.2	78.2	84.2	86.3	85.5
25	75.5	80.3	89.7	90.0	82.0	74.7	82.7	86.3	84.8	82.7
26	73.0	77.0	86.4	85.4	77.2	83.3	89.4	87.0	77.2	74.0
27	74.4	76.9	85.8	85.4	84.4	86.7	88.7	82.1	76.8	77.2
28	74.0	77.6	83.5	85.2	87.2	85.5	80.2	76.1	73.6	72.7
29	71.5	77.9	81.9	86.2	85.1	81.4	80.9	75.6	74.2	74.8
30	68.9	74.0	77.2	84.2	78.0	80.1	79.3	75.1	73.2	73.3
31	67.9	72.0	74.8	78.9	77.5	77.8	75.9	72.5	72.2	72.2
32	68.4	70.3	74.2	76.7	76.5	75.9	74.4	72.3	72.2	72.1
33	65.8	70.0	72.6	76.7	75.2	75.2	72.8	70.5	71.1	71.2
34	65.0	67.9	69.5	73.3	68.8	69.0	68.2	68.6	69.5	69.5
35	65.0	66.3	66.1	70.0	66.8	66.9	66.9	67.8	68.2	68.1
36	65.0	65.0	65.0	67.5	65.0	65.0	65.2	66.8	67.0	66.8
37	65.0	65.0	65.0	67.1	65.0	65.0	65.0	65.0	65.3	65.2
38	65.0	65.0	65.0	65.5	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	83.6	88.4	93.2	95.5	92.9	91.3	90.4	88.0	86.1	85.3
D	92.9	97.4	101.5	103.4	100.9	98.3	96.5	94.9	94.5	93.6
OASPL	101.6	105.2	107.7	109.7	108.2	106.2	104.4	103.3	101.4	100.1
PNL	102.2	105.7	108.8	111.0	108.4	107.1	105.0	103.0	102.1	101.2
PNLT	102.2	105.7	108.8	111.0	108.4	107.1	105.0	103.0	102.1	101.2

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 29, 150 KT. FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.5	-7.5	-6.5	-5.5	-4.5	-3.5	-2.5	-1.5	0	.5
17	95.3	99.2	99.9	98.1	97.7	96.3	96.2	94.3	90.3	91.4
18	92.1	98.0	99.6	100.2	102.6	100.3	97.5	94.5	93.1	93.1
19	83.9	89.7	91.8	99.2	103.8	102.8	99.2	92.3	93.5	93.0
20	89.4	98.2	97.5	96.2	101.1	103.2	100.8	92.5	91.5	89.2
21	86.6	94.4	95.1	99.4	99.7	95.2	95.2	90.3	83.9	77.3
22	81.6	89.2	93.7	97.3	100.7	96.9	89.6	85.8	77.6	80.2
23	80.2	87.5	93.9	96.6	96.3	93.1	88.3	78.8	84.0	85.0
24	80.5	85.2	90.0	93.2	95.1	88.6	78.5	78.3	86.2	85.9
25	78.3	83.8	85.1	89.0	89.2	78.5	76.9	83.7	85.0	81.9
26	72.0	78.4	80.7	84.2	82.7	82.5	86.9	88.4	78.8	73.4
27	74.0	79.0	78.6	81.3	84.8	90.9	92.1	85.6	76.6	77.2
28	72.5	78.5	76.5	82.0	88.3	90.3	88.1	78.1	73.7	72.8
29	71.6	78.2	76.0	83.2	89.3	85.8	79.4	79.5	73.8	74.4
30	72.1	78.1	76.8	81.7	86.6	79.4	81.5	77.1	73.1	73.4
31	70.8	76.8	76.0	77.9	80.2	81.1	80.6	74.7	71.9	71.8
32	69.6	75.6	76.8	75.2	78.7	77.2	76.6	72.7	71.8	71.7
33	66.8	73.0	75.5	72.8	78.2	74.2	74.3	71.8	70.9	70.9
34	65.6	67.0	69.7	71.4	74.9	71.0	70.9	69.5	69.5	69.5
35	65.0	65.6	67.7	68.4	72.6	67.9	67.9	67.4	68.0	68.5
36	65.0	65.0	66.6	65.6	68.0	66.6	67.0	67.3	66.8	66.7
37	65.0	65.0	65.0	65.0	65.2	65.1	65.1	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	82.1	88.5	90.2	94.1	96.1	95.0	93.7	89.2	86.0	85.4
D	91.0	96.9	98.4	101.7	103.2	101.9	99.9	95.1	93.7	93.1
OASPL	98.2	103.7	104.9	107.3	109.7	108.4	106.5	103.2	100.5	99.7
PNL	99.3	105.2	106.2	108.5	110.9	109.7	107.7	103.7	101.2	100.7
PNLT	99.3	105.2	106.2	108.5	110.9	109.7	108.7	103.7	101.2	100.7

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 12, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-52.5	-44.0	-35.5	-27.0	-18.5	-10.0	-5.5	-1.5	0	7.0	9.0
17	74.2	68.3	71.4	80.2	79.4	88.7	90.1	88.7	86.6	82.1	79.0
18	82.2	80.5	81.1	86.0	80.9	89.3	88.7	87.8	87.5	82.5	82.3
19	77.9	77.0	79.0	80.8	85.7	87.2	83.8	85.5	81.0	80.1	77.7
20	84.7	79.2	81.6	78.2	82.2	88.6	83.5	81.7	76.3	83.2	77.6
21	83.5	77.8	77.4	70.3	82.6	85.1	81.9	72.6	71.9	79.6	76.3
22	79.3	78.0	76.3	73.0	76.5	79.4	70.2	81.0	80.0	76.3	73.5
23	73.1	80.0	72.0	72.3	74.0	73.6	79.7	81.9	81.7	68.3	68.7
24	69.0	79.3	67.8	68.0	71.3	75.4	86.4	84.9	83.3	73.5	62.1
25	67.5	78.2	72.3	69.3	68.8	81.1	85.9	82.1	77.5	78.0	68.0
26	66.1	71.6	73.0	65.2	63.6	81.9	84.7	75.6	76.3	80.6	71.5
27	63.1	67.7	70.0	64.2	68.4	82.9	77.4	80.2	80.9	75.9	71.3
28	62.8	61.9	73.1	61.2	73.1	76.6	81.0	74.8	75.3	68.8	67.4
29	62.5	61.5	70.8	61.3	70.6	78.9	75.6	76.5	75.8	74.1	61.2
30	56.4	59.1	68.3	56.8	64.4	78.0	74.7	72.3	72.9	68.2	64.1
31	55.2	56.1	62.4	55.1	66.3	75.7	72.7	70.1	69.6	66.9	60.9
32	55.0	55.0	59.8	55.2	67.9	73.4	71.9	69.4	68.0	66.0	64.4
33	55.0	55.0	56.2	55.0	63.9	70.1	69.0	64.8	64.8	62.5	57.6
34	55.0	55.0	55.0	55.0	61.9	64.4	64.3	63.1	62.4	61.0	55.7
35	55.0	55.0	55.0	55.0	57.8	61.4	61.5	60.6	60.9	59.9	55.0
36	55.0	55.0	55.0	55.0	55.0	57.1	58.5	59.1	59.5	57.2	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.9	55.7	57.1	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	73.3	76.9	78.1	71.1	78.2	86.1	86.4	84.3	83.5	81.0	74.5
D	82.5	83.9	82.5	79.7	83.9	90.6	91.8	89.9	88.9	86.1	80.5
OASPL	88.7	88.2	87.5	89.4	90.1	95.2	98.5	96.2	95.9	89.4	86.8
PNL	90.9	91.4	90.9	89.2	92.7	99.1	99.6	97.9	96.7	94.9	89.0
PNLT	90.9	91.4	90.9	89.2	93.9	99.1	101.1	97.9	96.7	96.7	90.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 22, 100 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-22.5	-18.5	-14.5	-10.5	-6.5	-2.5	0	1.5	5.5
17	76.0	80.2	85.0	88.0	81.2	84.4	86.3	87.3	75.9
18	82.5	85.4	86.7	91.4	86.3	86.8	83.2	80.4	80.3
19	83.3	89.5	90.6	85.2	87.9	88.2	72.5	75.5	78.3
20	78.3	83.6	87.4	88.1	85.7	81.6	72.7	70.0	71.5
21	79.8	87.2	86.5	86.7	81.3	74.8	67.5	65.0	67.9
22	78.0	82.9	81.3	80.3	77.1	66.0	72.9	74.6	61.0
23	74.1	77.3	75.2	73.7	72.9	75.4	77.5	75.9	68.4
24	68.0	74.1	71.5	72.6	66.8	83.2	77.2	76.2	73.7
25	66.9	74.8	71.9	74.1	73.0	82.7	69.6	70.2	75.6
26	65.1	78.0	72.5	70.8	79.5	78.2	64.9	68.0	73.3
27	59.1	73.5	65.4	64.2	79.3	70.8	70.2	71.5	65.4
28	62.0	67.9	66.0	68.9	76.6	76.0	63.6	66.5	70.2
29	58.0	61.2	70.5	75.2	66.5	72.0	67.0	68.6	69.3
30	56.9	55.7	67.8	72.3	72.9	73.2	64.4	68.1	70.7
31	55.2	56.1	64.7	66.4	68.7	73.9	63.7	65.8	68.2
32	55.0	55.4	62.3	62.2	69.4	72.3	66.9	67.8	67.6
33	55.0	55.0	59.3	62.6	65.6	69.7	63.6	64.1	64.5
34	55.0	55.0	55.8	56.0	63.7	66.9	61.4	62.1	60.8
35	55.0	55.0	55.0	55.0	59.4	64.5	59.2	59.9	57.9
36	55.0	55.0	55.0	55.0	55.7	60.1	57.8	58.5	56.3
37	55.0	55.0	55.0	55.0	55.0	58.0	55.0	55.7	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	72.1	79.2	78.5	80.2	82.0	83.0	76.7	77.9	78.4
D	81.9	87.5	86.8	87.4	87.6	88.8	83.8	83.7	82.7
OASPL	90.1	95.0	95.3	95.8	94.4	94.2	94.2	91.2	87.5
PNL	89.1	94.7	95.2	95.5	95.5	97.2	91.2	91.4	90.7
PNLT	90.2	94.7	95.2	96.9	97.3	98.7	92.3	91.4	90.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 23, 100 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-17.0	-13.5	-10.0	-6.5	-3.0	0	.5	4.0	7.5	9.0
17	76.6	86.1	86.4	80.7	84.8	85.6	86.8	83.4	70.3	70.8
18	79.2	87.5	89.1	87.5	85.1	85.9	80.3	82.4	76.4	70.1
19	82.8	90.9	82.3	88.8	88.3	75.3	74.5	76.4	76.9	73.3
20	72.8	89.3	85.9	85.4	83.2	76.2	75.2	74.0	72.9	68.4
21	71.8	87.9	83.9	80.6	76.0	69.5	67.6	67.6	69.3	67.7
22	61.0	83.5	77.6	75.5	69.0	71.1	71.9	66.5	64.3	62.7
23	61.9	79.9	70.7	70.4	65.9	76.8	76.1	72.6	59.6	57.1
24	61.7	76.2	69.9	69.5	73.8	77.2	75.5	76.2	65.4	56.1
25	56.8	75.3	69.4	59.3	74.9	72.0	71.2	75.9	69.7	63.0
26	55.1	75.7	69.1	68.2	75.0	66.0	66.6	69.2	71.6	67.5
27	55.0	70.8	58.6	70.5	68.8	70.1	70.9	69.1	67.8	66.5
28	55.0	65.4	65.4	68.6	67.3	65.7	65.2	68.9	61.1	59.2
29	55.0	62.5	67.9	62.9	67.0	67.8	68.3	72.0	68.7	63.3
30	55.0	55.9	62.2	58.0	63.9	65.3	66.0	69.2	61.9	62.0
31	55.0	56.2	58.1	62.1	63.0	64.6	64.6	68.0	62.8	61.6
32	55.0	56.3	56.7	59.2	64.0	67.2	66.7	67.9	62.8	61.4
33	55.0	55.0	56.3	61.4	64.7	64.9	64.9	64.7	58.5	56.4
34	55.0	55.0	55.2	56.1	60.5	63.8	63.8	61.5	57.5	55.6
35	55.0	55.0	55.0	55.0	58.2	60.1	60.4	59.7	56.0	55.0
36	55.0	55.0	55.0	55.0	56.5	58.2	58.5	57.6	55.1	55.0
37	55.0	55.0	55.0	55.0	55.0	55.5	55.5	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	64.9	79.5	75.6	75.3	77.7	77.6	77.1	79.1	74.2	71.9
D	77.4	88.7	83.8	84.9	85.4	84.6	84.0	84.4	79.3	76.7
OASPL	88.9	96.7	93.6	93.5	93.7	95.0	94.4	92.7	84.4	82.6
PNL	86.0	95.7	92.7	92.9	93.5	91.9	91.1	91.6	87.7	84.7
PNLT	86.0	95.7	94.3	94.2	93.5	91.9	91.1	92.6	90.1	84.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.0	-13.5	-11.0	-8.5	-6.0	-3.5	-1.0	0	1.5	3.0
17	83.1	90.5	93.9	95.7	95.0	89.4	89.0	88.3	87.0	81.5
18	85.7	89.8	90.8	93.8	99.3	93.8	91.0	90.0	85.7	83.0
19	82.6	90.4	97.4	93.9	96.1	95.9	85.0	83.0	76.7	75.8
20	86.6	89.1	95.2	97.0	95.8	95.5	79.4	79.7	72.2	72.9
21	84.9	88.4	94.0	95.3	97.1	90.1	77.8	74.9	68.7	67.7
22	82.5	88.1	92.9	92.6	92.2	82.9	69.3	72.6	78.2	73.8
23	82.2	89.9	91.7	92.0	88.4	78.5	73.1	79.5	80.4	75.9
24	79.5	85.7	88.3	88.5	84.8	70.0	76.6	81.8	80.8	77.0
25	76.2	83.0	85.6	85.9	80.5	69.9	77.3	75.6	74.8	75.7
26	76.4	82.2	84.2	85.1	75.9	78.3	79.0	73.3	72.6	70.9
27	73.7	78.2	80.9	82.8	73.3	79.4	71.9	73.2	75.0	74.4
28	73.3	75.5	72.7	78.2	73.3	75.1	74.7	73.4	70.3	69.8
29	69.4	74.8	66.2	74.6	72.7	67.9	70.3	70.9	71.4	74.3
30	67.5	73.1	66.1	72.4	68.8	69.0	69.8	69.7	70.4	71.9
31	62.3	69.4	65.7	69.4	64.5	63.2	69.0	70.1	68.9	69.6
32	59.1	65.6	61.8	65.4	62.1	64.7	69.0	69.7	69.8	70.4
33	56.6	66.8	57.3	63.0	59.5	64.5	69.2	69.3	67.7	66.7
34	55.0	61.5	55.0	56.6	55.5	60.8	66.4	67.5	68.4	65.4
35	55.0	55.4	55.0	55.0	55.0	59.5	65.3	65.2	65.1	61.8
36	55.0	55.0	55.0	55.0	55.0	55.6	62.3	62.8	63.4	60.0
37	55.0	55.0	55.0	55.0	55.0	55.2	61.1	61.0	59.3	56.3
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	80.0	85.4	88.3	89.9	87.1	83.2	81.8	81.6	81.3	80.8
D	87.0	92.5	96.4	97.5	96.3	92.4	88.7	88.4	87.4	85.5
OASPL	93.4	98.6	103.0	103.5	103.7	101.4	99.2	98.5	95.3	93.7
PNL	95.0	100.9	102.6	103.8	103.1	100.3	96.2	96.2	95.2	93.3
PNLT	95.0	101.9	102.6	103.8	103.1	101.4	97.4	96.2	95.2	94.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-13.0	-11.5	-10.0	-8.5	-7.0	-6.5	-5.5	-4.0	-2.5	0	-.5
17	88.8	94.2	96.4	96.7	97.1	97.2	96.4	91.1	92.3	86.5	88.2
18	83.0	87.2	85.3	92.5	98.2	98.9	100.3	97.2	96.3	87.7	89.6
19	87.5	94.5	96.3	97.6	91.2	92.3	96.9	99.2	93.1	82.8	84.1
20	83.0	89.9	94.0	99.2	99.2	99.4	97.0	96.5	89.3	77.6	78.8
21	84.8	87.8	95.9	98.4	94.9	95.0	97.2	92.8	86.2	73.2	75.5
22	86.0	85.6	93.8	94.6	95.0	94.9	91.9	88.2	78.9	71.2	69.8
23	85.5	83.6	92.2	93.0	90.1	89.0	88.2	81.9	70.3	77.9	76.6
24	78.5	80.2	89.3	89.6	86.9	85.1	82.2	74.1	69.6	79.2	78.9
25	76.1	77.9	87.8	87.7	83.9	81.0	74.7	69.4	75.0	76.0	77.4
26	73.9	79.5	87.6	85.8	81.4	78.2	71.7	78.0	82.0	72.3	75.8
27	71.1	77.9	85.2	82.7	78.4	74.5	75.4	79.1	78.8	72.7	71.6
28	70.1	76.1	83.6	79.6	73.1	73.5	78.0	77.3	70.0	70.8	72.2
29	68.7	74.9	80.8	75.7	74.3	74.9	76.4	70.3	72.1	71.5	70.3
30	66.7	73.5	78.3	69.1	73.4	72.8	71.0	67.5	68.1	69.4	69.5
31	63.6	71.4	73.7	67.1	72.2	68.3	65.6	66.1	66.3	68.9	68.4
32	60.8	68.3	72.1	65.5	64.4	61.3	63.4	64.0	65.4	69.2	68.2
33	60.3	65.7	68.2	64.3	64.7	64.1	59.5	63.9	66.7	69.3	69.1
34	58.7	58.8	60.9	57.1	58.7	56.6	55.0	59.8	63.0	67.6	66.1
35	55.9	57.1	57.7	55.0	55.7	55.5	55.0	57.0	60.7	65.4	65.3
36	55.0	55.0	55.7	55.0	55.0	55.0	55.0	55.1	58.6	62.3	61.8
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	58.0	59.9	61.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.4	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	80.6	82.2	91.2	91.0	88.7	88.0	87.1	84.9	82.6	80.8	80.9
D	88.5	91.2	97.7	99.3	97.3	97.2	96.5	94.6	90.7	87.7	87.9
OASPL	95.0	99.8	103.6	105.4	104.4	104.6	104.5	103.0	101.4	98.8	98.8
PNL	96.3	99.8	104.8	105.4	104.5	104.1	103.3	101.9	98.9	94.9	95.5
PNLT	96.3	99.8	104.8	105.4	105.5	105.8	103.3	101.9	99.9	94.9	95.5

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-12.5	-11.0	-9.5	-8.0	-6.5	-5.0	-3.5	-2.0	-1.0	0	-1.0
17	90.5	96.8	97.7	99.5	97.5	96.9	91.3	93.7	90.4	87.8	90.4
18	82.2	92.6	90.6	93.3	94.8	98.9	94.4	97.5	93.3	89.1	93.3
19	90.5	99.3	100.2	99.5	94.5	97.3	97.0	93.9	87.6	82.8	87.6
20	90.4	97.5	99.1	99.1	99.2	96.7	97.4	86.9	80.1	77.3	80.1
21	88.2	96.3	99.1	99.6	95.1	95.7	91.6	80.7	75.3	72.4	75.3
22	84.8	95.6	97.1	94.7	93.3	90.7	83.6	74.2	70.8	74.3	70.8
23	83.4	94.8	95.2	93.0	91.1	85.5	78.0	70.9	75.3	79.0	75.3
24	79.5	91.1	91.6	89.4	86.8	78.8	70.3	74.9	79.6	80.4	79.6
25	75.9	87.2	90.0	85.6	81.7	72.9	74.9	77.8	78.0	75.3	78.0
26	74.5	87.3	90.2	83.1	76.6	79.2	81.3	82.3	78.3	72.2	78.3
27	71.2	85.4	88.4	77.4	76.2	82.2	80.5	76.4	73.4	75.0	73.4
28	67.2	83.5	84.8	76.1	79.0	80.7	74.7	72.9	74.0	71.4	74.0
29	65.2	80.0	82.0	79.9	78.7	73.2	70.2	72.7	71.8	72.4	71.8
30	65.0	77.6	76.5	80.2	74.0	68.4	69.8	70.5	71.6	71.1	71.6
31	65.0	75.6	74.0	75.7	71.7	69.0	67.3	69.3	71.1	70.7	71.1
32	65.0	74.9	70.8	71.1	69.5	65.2	67.8	69.0	70.6	70.9	70.6
33	65.0	70.6	66.8	68.9	65.2	65.0	66.8	69.6	70.0	69.7	70.0
34	65.0	68.2	65.8	65.8	65.2	65.0	65.3	67.4	68.1	68.0	68.1
35	65.0	65.4	65.0	65.0	65.0	65.0	65.0	66.1	66.7	66.6	66.7
36	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.2	65.1
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	80.6	91.7	92.4	90.1	88.4	86.8	84.7	83.3	82.8	81.6	82.8
D	89.9	98.8	99.9	98.6	96.2	95.0	93.7	91.5	89.7	88.5	89.7
OASPL	97.2	105.1	106.4	106.1	103.9	103.8	102.5	101.9	100.7	99.7	100.7
PNL	98.7	107.0	108.0	107.1	105.3	103.8	102.8	100.5	98.4	96.6	98.4
PNLT	98.7	107.0	108.0	107.1	105.3	103.8	102.8	100.5	98.4	96.6	98.4

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.5	-10.5	-9.5	-8.5	-7.5	-6.5	-5.5	-4.5	-1.5	0	-1.5
17	91.9	96.1	98.4	99.7	100.3	99.6	97.6	94.0	92.7	87.4	92.7
18	81.4	84.2	87.5	91.6	96.8	99.3	101.4	99.4	96.0	88.9	96.0
19	91.6	96.7	99.2	100.7	98.2	96.1	100.6	101.3	91.8	83.8	91.8
20	89.0	94.2	97.8	100.3	101.3	100.4	97.0	99.3	84.8	80.1	84.8
21	88.0	95.0	99.7	101.0	98.6	98.8	100.9	97.3	81.2	74.1	81.2
22	87.6	91.4	96.4	98.2	96.9	96.8	94.4	92.9	75.8	74.1	75.8
23	88.1	88.7	92.8	96.5	95.1	94.2	94.7	91.2	73.5	80.9	73.5
24	84.6	84.4	89.6	93.7	92.5	91.5	90.0	86.9	78.2	82.0	78.2
25	79.2	80.3	88.5	92.5	90.6	89.1	84.6	80.1	81.5	76.5	81.5
26	78.9	79.3	88.6	92.0	88.8	86.0	80.8	79.8	84.2	74.0	84.2
27	76.5	78.2	87.0	89.7	84.9	80.0	82.3	84.6	77.5	74.9	77.5
28	73.7	75.6	81.5	86.1	81.2	81.7	86.3	85.9	75.3	71.9	75.3
29	72.9	74.8	77.5	84.5	81.3	83.9	86.1	84.1	74.2	73.4	74.2
30	74.4	73.4	74.9	84.1	79.8	80.3	81.8	77.4	73.0	72.4	73.0
31	71.8	72.7	74.9	82.5	76.2	78.0	79.3	77.0	71.1	71.4	71.1
32	70.9	73.9	73.6	79.6	73.7	75.4	77.7	74.8	71.2	72.4	71.2
33	71.8	71.7	72.8	79.8	73.4	73.4	73.5	71.4	70.5	71.2	70.5
34	68.8	69.0	70.2	77.0	71.4	71.8	71.8	68.4	68.7	69.5	68.7
35	66.0	65.5	65.7	73.4	68.8	68.0	66.8	65.2	66.7	67.5	66.7
36	65.0	65.0	65.9	68.7	65.3	65.3	65.1	65.1	65.0	65.5	65.0
37	65.0	65.0	65.0	65.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	85.4	87.0	92.9	95.6	92.7	92.1	92.8	90.8	85.0	82.5	85.0
D	93.1	95.3	100.1	102.0	100.4	99.5	99.9	98.1	91.7	89.5	91.7
OASPL	97.9	102.2	106.0	107.9	107.0	106.4	106.6	105.8	102.1	100.3	102.
PNL	101.1	103.7	107.7	110.6	108.8	108.2	108.8	106.9	100.5	97.7	100.
PNLT	101.1	103.7	107.7	110.6	108.8	108.2	108.8	106.9	100.5	97.7	100.

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 28, 150 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.0	-8.5	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	0	-2.5
17	98.4	99.6	100.3	101.0	101.9	102.5	102.3	101.6	92.3	97.2
18	89.5	91.3	93.6	96.1	98.2	99.2	100.0	101.4	91.0	99.4
19	98.7	100.1	100.6	100.9	100.5	99.8	97.8	98.4	84.8	97.7
20	96.1	98.2	100.6	103.0	104.3	104.9	104.9	104.0	82.1	95.8
21	94.6	97.4	99.5	101.2	101.9	101.8	101.1	101.2	78.3	94.1
22	91.7	93.6	95.8	97.6	99.0	99.9	100.6	99.7	74.8	89.2
23	89.0	91.2	94.1	97.2	99.0	99.8	99.1	97.5	79.7	83.7
24	86.1	87.7	90.6	94.2	96.3	97.1	96.4	94.4	82.3	75.6
25	84.2	84.7	88.2	91.9	94.2	94.8	93.6	90.6	80.0	75.6
26	84.3	84.2	88.0	92.2	94.0	94.1	92.0	88.3	79.1	85.3
27	81.2	80.3	87.0	91.0	92.6	92.2	90.0	86.0	75.5	86.2
28	78.0	78.7	84.2	88.5	89.3	88.8	86.6	85.2	74.8	84.0
29	78.1	80.2	83.6	87.4	87.5	87.7	86.1	86.2	74.4	76.0
30	77.7	78.8	82.4	85.2	85.5	86.2	85.4	85.1	73.3	75.9
31	76.3	77.7	80.0	82.8	84.2	86.0	84.9	83.4	72.6	74.8
32	73.2	76.7	79.7	83.2	83.0	83.6	81.3	81.3	72.9	72.1
33	70.2	74.1	77.5	80.8	81.0	80.8	78.9	78.5	72.2	70.2
34	67.2	70.9	73.1	76.9	77.2	77.4	75.5	75.8	70.8	67.1
35	65.0	68.5	70.6	76.9	76.8	78.1	75.4	75.2	69.1	65.7
36	65.0	65.3	69.1	71.5	71.9	71.9	70.5	69.6	67.4	65.0
37	65.0	65.1	66.1	67.7	67.9	67.8	66.8	66.3	65.7	65.0
38	65.0	65.0	65.0	70.0	70.0	69.7	65.4	65.3	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	88.1	89.7	92.8	97.8	99.0	99.5	97.6	96.3	84.1	88.8
D	96.2	98.0	100.4	104.1	105.4	105.8	104.6	103.5	90.9	96.2
OASPL	103.9	105.4	107.0	108.9	109.9	110.3	109.9	109.1	102.1	105.1
PNL	105.0	106.6	109.1	111.8	112.9	113.3	112.6	111.6	99.0	104.4
PNLT	105.0	106.6	109.1	112.4	113.5	114.5	112.6	111.6	99.0	104.4

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTOR.

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 29, 150 KT. FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.5	-8.5	-7.5	-6.5	-5.5	-4.5	-3.5	-2.5	-2.0	0	-2.0
17	94.8	99.1	101.7	102.8	102.3	100.1	95.7	97.1	96.7	90.8	96.7
18	81.1	91.2	96.4	99.1	101.9	103.2	99.6	99.1	99.2	90.3	99.2
19	91.1	98.0	99.3	97.4	95.3	101.7	101.7	97.5	96.8	84.7	96.8
20	92.0	98.1	103.1	105.1	104.3	101.3	101.7	97.2	91.8	83.0	91.8
21	92.7	98.2	101.4	100.8	99.9	101.3	98.9	95.4	86.7	78.3	86.7
22	89.4	95.5	98.9	99.9	100.1	97.8	95.1	89.8	82.2	74.2	82.2
23	84.8	94.7	99.0	99.2	96.7	95.3	91.7	84.6	77.1	79.4	77.1
24	81.0	92.4	96.6	96.1	94.0	91.8	87.5	76.7	72.8	82.4	72.8
25	76.7	90.6	94.6	94.3	92.5	88.2	79.2	75.5	80.0	80.2	80.0
26	74.9	89.9	94.3	93.7	90.8	85.8	83.8	84.2	86.3	79.8	86.3
27	73.7	88.6	92.6	91.7	88.0	83.4	89.0	84.9	84.0	75.4	84.0
28	72.6	85.3	90.0	88.8	85.2	84.8	88.9	81.9	77.0	74.9	77.0
29	73.4	83.4	87.6	86.3	82.6	87.0	85.6	73.2	75.2	74.8	75.2
30	71.8	84.1	85.3	82.9	81.3	86.2	82.7	74.1	71.1	73.9	71.1
31	70.3	82.0	82.1	82.6	81.3	82.4	80.6	70.7	69.6	73.9	69.6
32	68.5	82.0	81.7	79.1	77.3	77.9	78.3	70.2	69.9	73.3	69.9
33	66.5	80.4	80.1	76.7	74.3	77.5	75.6	68.8	69.9	72.3	69.9
34	65.4	79.0	79.3	76.0	71.7	73.0	72.5	67.0	68.0	70.3	68.0
35	65.0	79.1	78.8	71.4	69.8	70.2	67.4	65.2	67.5	69.2	67.5
36	65.0	75.2	74.8	70.1	69.8	69.3	65.0	65.0	65.7	67.2	65.7
37	65.0	72.9	72.4	65.8	66.0	66.9	65.0	65.0	65.2	65.5	65.2
38	65.0	71.8	71.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	66.3	66.1	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	83.7	95.0	98.7	97.5	95.6	94.9	93.6	87.6	86.5	84.5	86.5
D	92.6	102.0	105.4	104.6	103.2	101.8	100.1	95.8	94.2	91.3	94.2
OASPL	99.5	106.0	109.3	109.9	109.2	108.5	107.1	104.7	104.0	102.5	104.0
PNL	101.1	109.7	112.6	112.5	111.2	110.3	109.0	104.6	102.9	99.0	102.9
PNLT	101.1	109.7	112.6	112.5	111.2	110.3	109.0	104.6	102.9	99.0	102.9

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.5	-14.0	-13.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5
17	86.7	90.3	92.2	92.7	89.4	87.4	89.4	93.2	90.6	91.5	86.2
18	82.9	95.0	95.2	94.7	96.3	99.5	102.3	95.5	87.6	84.4	81.3
19	81.8	96.4	98.2	97.3	93.0	95.3	95.2	91.5	83.6	86.7	74.3
20	85.4	96.5	98.6	98.8	95.1	98.5	98.0	88.3	90.1	93.1	75.1
21	85.7	95.5	96.8	96.3	92.7	97.9	97.4	83.8	94.6	96.6	82.1
22	83.1	93.8	95.3	94.1	89.1	94.3	92.8	85.8	94.9	93.6	81.5
23	81.2	91.9	93.9	93.1	86.9	92.6	88.0	89.4	91.9	86.6	81.0
24	78.0	89.8	91.1	90.7	86.3	88.5	78.1	88.3	84.2	84.8	75.2
25	72.6	87.3	87.8	86.1	81.1	81.3	82.5	81.0	83.1	84.3	75.4
26	72.7	88.1	87.8	85.3	81.5	77.9	83.5	80.5	80.9	78.2	77.2
27	67.3	82.2	82.4	79.2	76.7	71.3	78.9	78.0	75.1	75.4	74.0
28	65.2	79.6	77.6	72.7	69.8	66.4	73.7	74.2	74.7	74.5	73.5
29	65.0	75.3	72.7	69.8	66.0	65.5	72.8	73.1	74.0	73.1	74.5
30	65.0	74.5	70.8	68.0	66.1	65.9	69.4	71.2	73.4	72.3	72.8
31	65.0	71.3	69.4	67.1	65.9	65.0	67.0	70.1	72.8	72.3	72.8
32	65.0	69.7	67.4	65.7	65.0	65.0	65.9	70.5	73.3	73.2	72.0
33	65.0	68.0	65.9	65.3	65.0	65.0	66.1	70.1	72.5	70.9	70.3
34	65.0	65.0	65.0	65.0	65.0	65.0	65.0	69.6	71.5	70.5	68.4
35	65.0	65.0	65.0	65.0	65.0	65.0	65.0	68.1	70.2	69.1	66.8
36	65.0	65.0	65.0	65.0	65.0	65.0	65.0	66.0	68.5	67.7	65.5
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	67.0	66.1	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	78.2	89.9	90.6	89.6	85.8	88.2	87.5	86.0	89.0	88.2	82.8
D	87.6	97.8	98.8	97.9	93.2	97.6	97.3	94.9	96.7	96.2	88.8
OASPL	94.6	103.4	104.7	104.2	101.3	104.9	105.6	103.5	102.6	102.5	94.5
PNL	96.2	105.1	106.0	105.4	102.3	104.7	104.7	102.1	104.0	103.9	96.8
PNLT	96.2	105.1	106.0	105.4	102.3	104.7	104.7	102.1	104.0	103.9	96.8

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5
17	88.9	92.1	88.5	86.4	90.4	91.5	91.3	90.7	89.0
18	90.7	99.0	98.5	98.2	101.4	101.3	90.2	86.3	83.0
19	91.2	99.9	97.3	93.8	97.0	92.1	87.2	82.8	74.8
20	90.5	101.5	100.7	98.2	99.4	93.0	85.3	91.2	82.6
21	86.5	98.5	99.1	96.4	97.9	88.0	89.7	94.3	88.8
22	84.1	96.1	97.1	92.8	93.4	81.5	91.6	93.1	86.9
23	80.2	94.4	94.6	91.8	89.5	84.0	91.7	89.5	84.6
24	77.1	92.4	92.3	90.2	84.2	84.0	86.8	80.5	78.7
25	78.5	87.5	87.0	81.9	76.7	83.7	77.8	80.6	80.7
26	77.2	86.0	86.3	75.2	80.5	78.1	82.9	79.2	79.9
27	71.2	83.2	82.8	70.2	76.1	74.4	77.2	76.5	75.6
28	68.6	78.3	76.7	70.5	71.6	72.4	73.9	74.1	75.9
29	66.5	74.9	75.8	71.4	68.3	71.6	73.1	73.7	76.2
30	65.1	72.1	76.6	69.4	67.5	68.9	72.4	73.1	75.4
31	65.0	68.2	72.7	65.3	65.1	67.6	71.6	73.0	74.1
32	65.0	67.3	70.2	65.0	65.0	67.1	72.2	74.1	73.3
33	65.0	65.7	65.4	65.0	65.4	66.5	72.3	73.0	71.8
34	65.0	65.0	65.0	65.0	65.0	65.7	71.4	72.0	70.1
35	65.0	65.0	65.0	65.0	65.0	65.1	69.6	70.9	68.0
36	65.0	65.0	65.0	65.0	65.0	65.0	68.7	69.7	66.4
37	65.0	65.0	65.0	65.0	65.0	65.0	66.7	67.7	65.5
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	80.7	91.3	91.5	87.7	87.9	84.0	87.7	87.7	85.6
D	91.1	100.7	100.1	96.4	97.6	94.5	95.9	95.4	91.9
OASPL	97.4	106.5	105.9	103.8	105.7	104.3	102.9	101.9	98.1
PNL	98.8	107.6	107.3	104.2	105.0	102.9	103.1	103.1	99.9
PNLT	98.8	107.6	107.3	104.2	105.0	102.9	103.1	103.1	99.9

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0	0	3.0
17	78.3	87.5	89.4	91.5	95.0	89.8	91.2	90.6	87.1
18	92.0	98.0	95.9	95.6	98.8	101.3	97.3	87.0	81.9
19	85.5	96.2	94.6	97.1	99.8	95.1	87.2	83.0	75.6
20	87.7	99.1	95.4	96.7	100.9	97.1	88.3	91.7	76.4
21	80.4	98.3	93.4	92.9	97.5	94.3	85.0	95.0	82.6
22	79.7	96.5	91.1	90.0	95.2	89.0	87.6	94.1	82.8
23	82.3	94.7	89.7	89.6	93.3	82.2	90.0	90.4	82.0
24	81.3	95.2	88.1	87.8	87.9	80.1	90.7	81.9	76.4
25	75.7	91.5	82.2	80.5	79.1	87.2	85.6	81.9	77.1
26	76.0	90.0	80.7	78.6	84.3	86.6	82.3	79.7	79.2
27	72.0	85.9	76.4	74.2	82.2	80.0	80.7	76.9	75.0
28	67.6	80.6	69.5	74.2	82.4	73.0	77.6	75.8	75.9
29	67.5	77.1	69.6	73.3	77.0	73.9	75.5	73.9	75.6
30	66.3	73.5	68.2	70.8	70.2	69.6	72.4	73.2	74.7
31	65.1	73.3	67.2	68.2	72.1	68.9	71.5	73.1	73.4
32	65.0	70.5	65.1	68.8	67.1	67.9	70.2	74.0	73.0
33	65.0	65.4	65.0	66.4	67.8	67.0	70.1	72.8	71.1
34	65.0	65.0	65.0	65.0	65.2	65.6	68.5	72.2	69.2
35	65.0	65.0	65.0	65.0	65.0	65.0	67.0	70.5	66.8
36	65.0	65.0	65.0	65.0	65.0	65.0	65.5	68.7	65.8
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	66.2	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	79.7	92.6	86.6	87.3	90.3	87.5	87.5	88.2	84.1
D	88.2	100.8	94.5	95.5	99.2	96.2	95.9	96.1	89.6
OASPL	95.9	105.7	101.8	102.9	106.3	104.7	103.5	102.4	95.6
PNL	97.2	107.5	102.9	103.7	107.0	104.1	103.3	103.6	97.7
PNLT	97.2	107.5	102.9	103.7	108.1	104.1	103.3	103.6	97.7

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.0	-9.5	-8.0	-6.5	-5.0	-3.5	-2.0	-.5	0	2.5
17	88.0	94.1	93.8	91.3	93.3	90.3	93.9	91.5	90.9	90.9
18	96.3	100.1	100.8	103.0	102.9	102.5	97.9	87.4	87.6	83.4
19	93.1	99.7	98.7	97.9	99.7	95.3	89.4	83.6	84.4	76.6
20	93.1	101.1	101.0	103.7	102.7	98.6	90.6	91.7	93.7	82.9
21	89.2	99.1	99.6	102.8	100.4	95.9	85.9	94.4	96.3	88.8
22	85.9	97.9	97.5	99.6	97.4	89.2	84.3	95.3	95.9	87.6
23	82.9	96.7	95.7	97.8	94.2	82.3	89.6	92.8	91.8	83.9
24	80.9	95.0	95.2	94.3	87.9	85.0	91.5	85.1	84.2	77.6
25	74.9	91.6	90.7	86.6	83.6	90.3	87.2	83.7	84.8	81.6
26	75.6	91.4	90.1	81.3	88.4	87.6	83.6	82.5	80.7	78.9
27	71.7	87.3	86.6	81.7	88.3	81.8	81.7	78.3	79.0	76.8
28	70.3	84.2	83.6	84.7	85.2	76.5	79.9	75.8	76.2	76.5
29	68.4	79.8	79.5	85.8	80.1	77.3	74.4	75.3	75.2	77.1
30	67.8	76.2	79.3	83.6	76.1	72.5	74.1	74.7	74.7	76.0
31	65.5	76.2	78.8	78.9	75.8	70.8	71.3	74.4	74.8	74.7
32	65.0	74.6	79.1	78.1	72.5	69.9	71.8	74.4	75.0	74.4
33	65.0	72.4	75.9	76.0	70.4	69.0	71.9	73.3	73.5	72.3
34	65.0	68.9	71.4	74.6	67.3	66.8	70.7	72.7	73.0	69.7
35	65.0	65.6	67.0	71.5	65.0	65.0	68.1	71.0	71.2	67.8
36	65.0	65.0	66.1	67.3	65.0	65.0	65.9	68.9	69.4	66.7
37	65.0	65.0	65.0	67.0	65.0	65.0	65.0	66.7	66.7	65.3
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	82.2	94.7	94.2	94.5	93.1	89.3	88.8	89.5	89.9	85.6
D	92.1	102.7	101.8	103.0	101.5	97.9	96.7	97.4	97.6	91.8
OASPL	100.4	107.7	107.5	109.2	108.4	106.1	104.8	103.5	103.3	98.2
PNL	100.5	109.1	109.2	110.6	109.0	105.5	104.2	104.7	105.0	100.1
PNLT	100.5	109.1	109.2	110.6	109.0	105.5	104.2	104.7	105.0	100.1

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 12, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5	6.5
17	89.1	89.5	92.0	89.4	89.2	87.3	84.2	87.1	87.1	91.5
18	84.7	84.2	88.8	91.1	84.4	84.3	81.8	80.5	92.5	87.3
19	88.5	88.7	89.3	84.0	75.3	78.0	86.6	86.7	81.0	83.9
20	87.9	87.6	88.6	86.5	77.6	92.4	94.7	96.5	88.4	82.1
21	83.8	84.3	81.8	73.6	86.3	96.3	100.0	98.9	92.4	75.9
22	78.8	79.7	74.9	83.1	90.4	96.4	96.9	97.6	91.4	76.8
23	77.2	71.5	80.1	87.0	94.9	92.4	92.5	91.7	89.8	82.5
24	70.3	77.4	87.1	90.3	92.7	89.1	95.6	96.6	83.2	84.0
25	78.8	81.4	88.4	87.2	82.4	92.2	96.1	95.1	88.8	81.1
26	82.6	83.1	85.6	79.7	88.3	89.4	93.6	93.3	85.7	75.1
27	79.0	78.6	75.6	78.1	84.4	86.9	88.3	87.5	84.1	77.8
28	75.9	71.3	79.9	77.8	84.5	84.3	85.0	82.6	81.7	75.4
29	70.8	76.4	76.3	76.8	83.4	81.5	83.2	79.9	79.3	74.3
30	71.6	69.9	77.1	73.0	80.9	79.3	79.8	77.9	76.3	71.7
31	68.1	71.1	73.5	71.9	78.4	76.6	76.5	75.4	74.6	71.5
32	66.6	68.4	72.5	70.9	77.0	75.0	75.0	74.4	76.5	71.4
33	65.0	67.0	70.7	69.4	73.8	72.1	71.2	70.6	70.7	66.8
34	65.0	65.4	69.0	67.1	72.3	69.6	69.4	68.9	69.8	65.7
35	65.0	65.0	67.5	65.0	68.9	67.2	67.1	66.8	68.3	65.0
36	65.0	65.0	65.7	65.0	66.9	65.7	66.3	65.9	67.1	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.2	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	82.8	83.8	87.4	87.8	92.1	93.2	95.8	95.2	90.1	83.6
D	88.9	89.6	93.4	93.6	98.0	99.6	102.3	102.0	96.4	89.4
OASPL	95.3	95.7	98.2	98.5	102.4	103.3	105.5	105.6	101.1	95.2
PNL	98.5	99.0	102.2	102.1	105.5	106.2	108.6	108.1	103.7	98.6
PNLT	98.5	100.9	103.5	102.1	105.5	106.2	108.6	108.1	105.0	98.6

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 17, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-30.5	-25.5	-20.5	-15.5	-10.5	-5.5	-4.5	-.5	0	4.5	7.5
17	83.0	83.6	84.1	85.1	86.8	89.4	92.8	79.8	82.3	77.9	82.5
18	79.8	79.7	79.8	78.3	82.2	91.8	90.4	80.8	78.7	80.9	73.8
19	83.1	85.8	83.6	82.7	82.9	91.0	89.5	81.8	83.3	73.9	73.9
20	83.1	87.1	83.3	82.0	85.8	84.5	81.4	88.7	88.0	81.4	66.2
21	80.5	88.0	79.4	78.4	82.0	74.3	78.6	91.1	91.3	84.2	69.4
22	78.1	85.5	73.8	71.4	73.8	82.8	89.3	90.7	90.3	83.7	73.2
23	74.8	78.6	75.5	69.4	69.1	90.3	92.7	80.4	78.7	83.0	73.7
24	71.4	78.9	72.8	68.1	77.9	89.5	88.1	82.8	83.9	74.6	74.2
25	72.2	77.8	71.9	71.0	85.9	85.9	78.8	82.2	80.7	81.6	66.1
26	73.3	80.6	68.3	75.6	83.2	79.9	86.3	78.2	81.1	77.6	70.4
27	73.3	75.3	68.3	70.0	75.4	82.5	82.6	76.7	78.6	79.1	69.4
28	72.1	69.2	73.3	68.7	69.5	78.7	80.5	73.6	74.0	76.6	71.9
29	67.6	75.1	72.7	65.6	75.8	79.3	78.9	70.7	72.9	75.9	68.6
30	67.5	79.1	66.7	65.7	69.7	76.9	76.7	70.5	71.4	74.1	67.0
31	65.0	78.1	66.1	65.5	72.5	74.8	76.4	68.5	69.4	72.6	66.1
32	65.0	71.1	67.0	65.0	69.3	74.3	75.7	69.0	69.7	73.9	69.5
33	65.0	70.7	65.0	65.0	67.7	72.3	73.5	66.3	67.0	68.7	65.0
34	65.0	65.5	65.0	65.0	66.3	70.8	71.8	65.2	65.9	66.7	65.0
35	65.0	65.0	65.0	65.0	65.0	68.0	69.3	65.0	65.1	65.3	65.0
36	65.0	65.0	65.0	65.0	65.0	65.6	67.1	65.0	65.0	65.0	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	76.9	85.5	78.9	76.0	84.9	88.7	89.4	84.9	85.1	84.5	77.1
D	84.4	89.5	85.1	83.8	90.0	94.8	95.7	91.8	92.1	90.2	83.1
OASPL	90.5	94.4	91.0	91.2	94.3	100.1	100.8	96.8	97.1	97.8	88.0
PNL	94.6	99.1	94.5	93.7	99.0	102.8	104.1	100.0	100.2	98.0	92.9
PNLT	94.6	99.1	94.5	93.7	101.1	102.8	104.1	100.0	100.2	99.0	94.3

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 18, 60 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-36.5	-30.5	-24.5	-18.5	-12.5	-6.5	-.5	0	5.5	7.5
17	79.5	87.5	85.2	87.7	89.0	84.1	83.4	84.3	78.6	86.9
18	76.4	85.7	84.3	83.7	88.3	91.9	83.9	81.4	78.9	82.0
19	80.5	88.7	86.9	87.9	88.8	88.0	79.6	82.3	73.0	73.3
20	79.8	87.9	87.7	87.9	92.1	89.1	87.3	88.2	76.0	67.7
21	79.3	83.0	85.1	86.9	89.5	78.9	89.0	90.4	82.1	72.6
22	81.3	79.7	78.0	85.3	82.3	77.1	91.7	93.4	82.6	73.6
23	80.5	79.6	76.8	78.7	76.3	83.4	87.0	85.4	80.2	76.1
24	74.5	83.5	75.8	78.2	75.9	89.1	83.8	87.7	73.3	77.9
25	73.6	79.4	72.3	71.5	80.0	83.2	88.3	88.8	76.0	68.3
26	70.4	74.3	72.9	73.7	84.3	78.8	84.0	83.5	77.7	72.9
27	72.7	70.0	71.4	78.3	81.2	80.5	82.7	81.4	77.5	72.1
28	71.6	69.3	71.5	80.6	79.7	79.7	77.8	80.4	74.2	72.6
29	72.0	69.1	68.3	78.2	74.3	77.5	76.8	78.6	73.9	69.9
30	71.0	66.3	66.3	70.7	77.3	75.2	76.3	77.2	72.5	68.1
31	68.2	66.5	65.7	71.2	72.2	75.4	74.4	74.5	71.1	67.4
32	66.0	65.4	65.2	69.6	73.3	74.1	72.7	72.8	73.8	70.3
33	65.0	65.0	65.0	66.8	71.8	71.8	70.8	70.3	67.9	65.3
34	65.0	65.0	65.0	65.2	69.7	69.4	69.1	68.9	65.7	65.0
35	65.0	65.0	65.0	65.0	65.7	66.6	66.5	66.2	65.0	65.0
36	65.0	65.0	65.0	65.0	65.0	65.2	65.7	65.5	65.0	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	78.4	80.5	78.7	83.9	86.6	86.5	89.0	90.3	82.7	78.8
D	85.1	88.8	86.7	89.5	92.2	92.9	95.0	95.8	88.2	84.9
OASPL	90.0	94.7	93.5	95.0	97.4	97.9	97.8	98.9	95.6	91.3
PNL	95.1	97.7	96.7	98.6	101.2	101.9	102.4	103.1	96.7	94.1
PNLT	95.1	97.7	96.7	98.6	102.5	101.9	102.4	103.1	98.1	95.5

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 20, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.0	-12.0	-9.0	-6.0	-3.0	0	3.0	6.0	7.5
17	87.9	88.2	90.2	89.5	80.8	76.8	85.2	88.0	89.0
18	82.2	83.2	85.3	86.5	75.9	82.9	85.4	84.5	85.6
19	83.1	84.1	83.8	79.2	79.1	86.1	81.5	82.6	82.2
20	77.5	79.2	80.4	79.2	79.0	92.9	94.6	78.3	77.2
21	71.2	72.1	71.1	75.3	90.2	99.3	93.7	81.1	78.4
22	76.1	73.3	75.6	86.0	93.2	96.7	94.9	82.7	73.3
23	72.2	74.8	83.7	89.1	94.6	92.2	89.1	83.0	76.1
24	75.2	84.6	88.9	91.8	90.4	94.6	86.6	83.5	79.0
25	80.2	84.4	87.3	86.2	88.8	95.6	89.9	81.5	80.6
26	83.1	84.7	83.5	80.3	88.4	91.6	84.0	78.6	77.8
27	76.2	78.9	75.5	80.2	83.7	88.3	83.3	78.7	74.8
28	66.7	75.1	76.6	77.5	82.1	85.1	80.4	76.2	75.5
29	69.6	76.2	71.4	78.7	81.8	82.1	78.7	74.9	72.8
30	66.5	72.1	70.9	73.6	76.4	80.2	75.8	72.9	71.3
31	66.6	69.7	68.7	71.6	74.7	77.3	74.1	71.2	69.9
32	65.2	67.2	67.2	70.7	72.8	74.0	75.8	71.7	71.0
33	65.0	65.7	66.3	68.8	70.7	71.6	70.0	67.1	65.7
34	65.0	65.0	65.0	66.0	68.2	69.2	69.7	66.3	65.0
35	65.0	65.0	65.0	65.0	66.4	66.8	69.3	65.7	65.0
36	65.0	65.0	65.0	65.0	65.5	65.7	68.0	65.0	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	66.2	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	81.6	85.1	86.6	88.4	91.2	94.6	90.8	84.2	82.0
D	87.0	89.9	92.2	94.5	97.6	101.5	97.4	90.0	87.5
OASPL	93.6	95.0	97.3	99.4	101.7	104.7	102.4	95.1	93.0
PNL	97.1	99.1	100.4	102.5	104.7	108.0	104.6	98.7	96.9
PNLT	98.1	99.1	101.5	103.5	104.7	108.0	105.9	98.7	97.9

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 22, 100 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-24.5	-20.0	-15.5	-11.0	-6.5	-2.0	0	2.5	7.0	8.5
17	76.8	82.7	84.5	85.6	87.6	81.8	85.4	85.9	80.1	77.4
18	81.3	86.5	88.8	89.6	90.2	81.9	85.5	82.6	74.7	70.8
19	77.8	86.7	88.2	87.2	86.1	85.6	77.1	80.0	78.1	74.5
20	71.6	81.4	85.8	84.3	87.6	79.5	86.1	87.9	69.5	68.9
21	73.7	84.1	86.1	83.8	86.8	79.0	91.4	89.8	66.6	68.1
22	70.7	81.6	83.1	80.9	82.5	80.4	89.8	87.4	69.4	65.0
23	68.1	79.1	80.9	78.1	75.2	87.5	83.4	82.2	72.9	66.1
24	67.0	73.6	71.7	69.9	71.0	86.9	79.4	78.0	72.7	67.6
25	66.1	70.0	73.9	72.2	79.3	78.3	78.0	78.5	69.6	67.2
26	65.4	70.8	72.5	66.8	83.0	83.8	69.2	74.2	65.6	66.3
27	65.4	69.9	71.7	65.0	78.4	83.7	70.4	73.9	70.4	65.0
28	65.0	68.4	71.2	67.5	73.0	79.5	68.9	73.3	69.1	66.2
29	65.0	65.7	65.1	66.6	76.5	78.7	67.4	74.3	68.0	65.8
30	65.0	65.0	65.6	66.0	75.8	78.1	67.3	71.8	66.1	65.0
31	65.0	65.0	65.2	65.0	75.6	74.4	66.8	70.0	66.8	65.6
32	65.0	65.0	65.0	65.0	73.7	75.4	68.1	71.7	66.5	65.5
33	65.0	65.0	65.0	65.0	74.2	72.3	66.9	68.2	65.0	65.0
34	65.0	65.0	65.0	65.0	72.1	71.9	66.3	67.0	65.0	65.0
35	65.0	65.0	65.0	65.0	69.0	68.7	65.7	66.3	65.0	65.0
36	65.0	65.0	65.0	65.0	66.8	67.3	65.2	65.5	65.0	65.0
37	65.0	65.0	65.0	65.0	65.0	65.3	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	69.5	77.0	78.9	76.5	86.1	88.0	83.4	83.5	76.2	72.9
D	79.8	86.1	87.6	86.4	91.5	93.0	91.8	91.0	82.5	80.1
OASPL	86.5	93.1	95.2	95.4	97.1	96.7	97.1	97.0	86.4	83.7
PNL	92.1	95.5	96.8	95.7	100.2	101.2	99.2	99.3	92.6	91.5
PNLT	92.1	95.5	96.8	95.7	100.2	101.2	99.2	99.3	92.6	91.5

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 23, 100 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-33.5	-26.5	-19.5	-12.5	-5.5	0	1.5	8.5	15.5	18.0
17	67.2	72.3	80.9	83.4	88.7	85.8	87.4	76.1	66.5	66.6
18	71.5	76.4	85.6	87.8	92.6	85.1	80.0	70.1	70.6	68.0
19	69.6	74.7	83.7	86.0	87.1	77.0	83.3	74.5	66.1	65.0
20	67.5	69.6	78.1	83.9	88.7	85.5	89.0	69.9	67.1	65.5
21	65.7	71.4	81.1	85.6	84.4	89.8	90.2	67.3	66.1	65.0
22	63.5	68.0	77.8	81.4	76.9	87.2	87.4	65.0	65.2	65.0
23	65.1	67.9	74.5	78.2	69.5	80.4	79.0	65.5	65.0	65.0
24	63.6	65.0	69.2	68.8	74.6	75.5	80.7	67.5	65.0	65.0
25	63.5	65.0	65.3	65.0	76.6	75.0	77.7	67.8	65.0	65.0
26	63.5	65.0	65.1	65.0	79.9	71.1	73.0	67.2	65.0	65.0
27	63.5	65.0	65.0	65.0	74.2	70.2	69.7	65.0	65.0	65.0
28	63.5	65.0	65.0	65.0	67.0	68.4	69.2	65.4	65.0	65.0
29	63.5	65.0	65.0	65.0	66.5	68.6	71.8	65.0	65.0	65.0
30	63.5	65.0	65.0	65.0	65.5	68.3	68.6	65.1	65.0	65.0
31	63.5	65.0	65.0	65.0	65.0	67.7	69.4	66.2	65.0	65.0
32	63.5	65.0	65.0	65.0	65.0	69.5	70.4	65.5	65.0	65.0
33	63.5	65.0	65.0	65.0	65.0	68.8	68.5	65.0	65.0	65.0
34	63.5	65.0	65.0	65.0	65.0	67.8	67.3	65.0	65.0	65.0
35	63.5	65.0	65.0	65.0	65.0	66.8	66.2	65.0	65.0	65.0
36	63.5	65.0	65.0	65.0	65.0	66.0	66.2	65.0	65.0	65.0
37	63.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	63.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	63.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	63.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	65.2	67.5	72.5	75.4	80.2	81.6	82.9	73.1	67.7	66.0
D	76.5	78.4	83.3	86.0	88.4	89.7	91.0	80.1	78.2	77.5
OASPL	78.5	82.4	91.5	94.2	97.8	95.6	96.6	83.5	77.1	75.2
PNL	89.5	91.5	93.5	95.5	97.6	98.4	99.1	91.4	90.8	90.7
PNLT	89.5	91.5	93.5	95.5	97.6	98.4	99.1	91.4	90.8	90.7

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 24, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-16.5	-14.0	-12.5	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5
17	85.7	89.3	91.5	90.6	85.8	85.3	90.0	93.3	90.3	90.6	84.7
18	86.1	96.5	96.7	96.3	96.5	99.9	102.9	92.4	87.6	83.9	80.4
19	81.8	96.0	97.5	96.6	90.4	92.2	94.9	92.0	83.1	86.3	74.3
20	83.5	96.2	98.4	98.9	94.6	96.1	97.5	86.1	90.0	92.6	71.2
21	83.1	94.8	96.9	97.3	93.4	96.8	96.9	83.7	94.3	95.4	78.0
22	83.3	92.7	95.1	95.1	90.6	93.9	89.9	87.4	93.8	92.1	78.4
23	81.5	92.0	94.8	93.7	87.4	92.3	85.2	89.4	90.1	85.1	78.9
24	78.2	89.2	92.3	91.8	85.9	85.9	78.1	87.1	84.2	85.7	74.7
25	74.4	85.7	87.6	87.9	80.0	78.3	81.9	79.0	84.0	84.9	74.2
26	73.0	84.0	87.5	87.3	78.5	75.0	82.3	81.8	79.2	78.7	77.6
27	69.4	79.4	82.4	80.4	72.7	67.6	77.8	77.3	75.5	74.6	74.0
28	66.1	76.2	76.2	73.4	66.2	67.2	70.2	74.2	74.3	74.7	73.3
29	65.0	73.9	72.6	69.3	66.0	67.7	72.3	72.8	73.0	73.4	73.0
30	65.0	72.3	70.6	68.9	66.8	66.3	67.7	71.4	72.3	71.9	70.8
31	65.0	69.3	67.2	69.0	66.1	65.0	66.1	70.5	71.1	71.3	70.7
32	65.0	67.0	65.0	65.4	65.0	65.0	65.3	70.6	72.2	72.5	69.4
33	65.0	66.6	65.0	65.7	65.0	65.0	66.2	70.4	71.5	70.4	67.4
34	65.0	65.0	65.0	65.0	65.0	65.0	65.0	69.7	70.7	70.3	66.5
35	65.0	65.0	65.0	65.0	65.0	65.0	65.0	67.3	69.9	69.0	65.6
36	65.0	65.0	65.0	65.0	65.0	65.0	65.0	66.8	68.4	67.7	65.2
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4	66.9	66.1	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	78.3	87.9	91.0	90.5	85.5	86.9	86.6	86.3	88.2	87.8	81.2
D	87.1	96.8	99.0	98.8	92.8	96.2	96.4	94.7	95.6	95.3	86.9
OASPL	94.1	102.8	104.8	104.5	100.8	103.6	105.0	102.8	101.6	101.3	92.8
PNL	96.0	104.3	106.1	105.9	101.8	103.6	104.4	101.9	103.2	103.3	95.6
PNLT	96.0	104.3	106.1	105.9	101.8	103.6	105.5	101.9	103.2	103.3	95.6

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 25, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5
17	88.0	90.7	87.7	85.3	87.3	93.6	90.6	90.4	86.7
18	92.4	100.2	99.4	99.5	102.0	99.8	87.5	84.9	81.6
19	90.0	98.5	96.1	92.8	94.1	93.8	84.9	84.4	76.9
20	89.8	100.3	99.0	96.9	98.0	91.0	87.1	91.2	77.2
21	85.3	96.3	97.7	96.8	97.1	85.1	91.5	93.7	84.2
22	82.9	92.2	94.8	94.1	91.1	83.1	91.7	91.0	83.3
23	78.9	89.2	94.0	91.4	87.0	86.2	90.3	86.0	83.4
24	75.1	89.8	94.5	87.2	80.0	86.5	83.9	81.1	76.8
25	74.1	84.8	87.4	77.5	79.2	82.3	80.2	81.7	78.7
26	73.3	86.1	85.7	74.9	81.6	78.7	82.2	79.1	79.7
27	69.8	83.0	80.3	75.7	76.2	77.2	76.0	75.9	76.1
28	65.2	78.3	74.9	75.6	71.5	73.6	74.1	74.3	75.4
29	65.0	76.2	72.1	73.7	68.4	71.9	73.5	73.5	75.5
30	65.0	73.0	71.0	69.0	66.8	70.1	73.1	72.1	73.3
31	65.0	69.3	70.1	65.0	65.2	69.3	72.2	71.4	72.1
32	65.0	68.5	68.5	65.0	65.0	68.7	72.2	72.7	71.1
33	65.0	65.7	65.1	65.0	65.0	68.7	72.3	72.0	70.0
34	65.0	65.0	65.0	65.0	65.0	67.4	72.1	71.8	68.8
35	65.0	65.0	65.0	65.0	65.0	65.8	70.8	70.2	66.6
36	65.0	65.0	65.0	65.0	65.0	65.6	69.4	68.9	65.9
37	65.0	65.0	65.0	65.0	65.0	65.0	67.6	67.5	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	79.1	89.8	91.0	87.7	86.8	84.9	87.1	86.4	83.8
D	89.0	98.5	99.2	96.1	95.9	94.6	95.0	94.2	89.5
OASPL	96.9	105.1	105.1	103.8	104.7	103.5	101.3	100.8	95.3
PNL	98.0	106.4	106.3	104.0	103.9	102.7	102.6	102.5	98.1
PNLT	98.0	106.4	106.3	104.0	103.9	102.7	102.6	102.5	98.1

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 26, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-13.5	-11.5	-9.5	-7.5	-5.5	-3.5	-1.5	0	.5	3.0
17	80.6	87.3	89.1	92.2	92.0	87.7	92.9	89.7	89.8	87.2
18	94.0	99.0	97.2	98.3	100.1	102.2	95.5	87.0	85.4	82.6
19	85.8	96.6	94.3	96.9	98.6	93.1	88.5	83.7	84.7	73.2
20	89.9	100.0	96.8	96.0	100.2	97.0	86.2	90.7	91.8	80.0
21	86.2	99.1	94.7	92.7	97.3	94.0	85.4	94.1	94.8	84.5
22	82.2	97.1	92.3	91.7	93.6	87.2	87.4	93.3	92.4	83.7
23	82.7	95.5	91.1	90.6	90.8	81.1	90.3	90.4	87.9	81.9
24	76.5	95.1	89.2	86.9	85.8	81.8	90.4	83.5	82.3	75.8
25	72.4	90.8	84.1	78.3	78.6	87.0	83.1	83.9	83.4	79.8
26	73.3	89.4	82.0	75.5	84.5	84.6	83.2	81.5	79.4	79.1
27	70.1	83.8	75.2	72.9	83.8	77.1	80.6	77.8	77.1	76.8
28	66.0	79.6	71.1	73.3	82.2	71.5	77.3	75.4	74.9	76.3
29	65.8	74.8	70.4	72.4	76.1	73.2	75.9	74.8	73.8	75.3
30	66.2	72.2	69.1	70.3	70.8	68.1	73.4	74.2	72.3	74.3
31	65.0	70.8	66.9	65.4	70.7	67.6	71.7	73.5	72.5	72.2
32	65.0	67.9	65.0	65.0	66.5	66.2	71.1	72.9	72.3	71.8
33	65.0	65.9	65.0	65.0	66.9	65.8	71.5	73.2	72.7	69.8
34	65.0	65.0	65.0	65.0	65.0	65.2	69.3	72.8	72.3	68.4
35	65.0	65.0	65.0	65.0	65.0	65.0	67.7	70.8	70.3	66.7
36	65.0	65.0	65.0	65.0	65.0	65.0	66.0	68.9	68.4	65.7
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	67.1	66.8	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	79.3	92.9	87.6	86.9	89.7	86.1	88.0	88.6	87.7	83.9
D	89.0	100.9	95.8	95.1	97.9	95.7	95.6	95.8	95.0	89.8
OASPL	96.8	106.1	102.5	103.0	105.5	104.3	103.1	101.8	101.4	95.7
PNL	97.9	107.4	103.9	103.2	106.3	104.0	103.3	103.5	103.2	97.9
PNLT	97.9	107.4	103.9	103.2	106.3	105.2	103.3	103.5	103.2	97.9

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 27, 141 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.0	-9.5	-8.0	-6.5	-5.0	-3.5	-2.0	-.5	0	2.5
17	85.4	91.8	91.5	87.8	89.4	88.1	95.5	91.3	90.6	90.9
18	96.6	99.8	100.8	103.5	104.0	103.2	97.9	87.7	86.9	83.3
19	88.7	97.5	96.8	95.8	96.9	93.9	91.6	84.8	85.9	76.5
20	91.9	100.8	100.5	102.8	101.9	98.6	90.6	91.5	93.6	85.1
21	88.1	99.8	99.0	101.7	100.2	95.7	84.6	94.3	96.3	89.4
22	83.9	98.4	96.9	99.4	96.9	89.3	83.5	94.5	95.2	87.5
23	83.0	97.0	96.1	97.5	93.2	81.5	90.0	91.8	90.3	83.7
24	81.2	96.9	95.0	93.0	84.8	85.5	92.2	85.2	85.7	79.0
25	78.5	93.9	90.1	86.6	84.2	90.2	86.5	84.5	85.6	81.9
26	81.4	94.1	88.6	84.1	89.3	86.9	83.9	82.6	80.6	79.3
27	77.3	89.7	83.5	83.0	87.6	80.6	82.7	77.8	77.7	78.3
28	75.5	86.8	78.6	85.5	85.5	75.3	78.4	75.6	75.9	76.4
29	72.8	83.8	77.6	85.6	80.3	76.2	75.3	75.1	74.9	76.5
30	70.6	80.8	77.9	81.3	77.8	71.0	73.5	75.0	74.4	75.4
31	69.9	76.7	75.7	78.4	75.7	71.4	72.6	73.9	73.7	73.1
32	68.7	74.8	74.1	74.6	71.1	70.1	72.3	74.2	74.0	72.7
33	67.2	72.6	74.9	76.9	70.0	68.3	72.6	73.4	73.4	71.0
34	65.0	70.5	69.7	71.1	66.1	66.2	70.6	72.9	73.2	69.6
35	65.0	66.5	66.1	69.1	65.3	65.0	69.0	70.9	70.9	68.1
36	65.0	65.0	65.0	67.2	65.0	65.0	65.9	69.7	69.7	66.8
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	67.5	67.6	65.2
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	83.7	96.0	93.6	93.8	91.7	89.2	89.2	89.2	89.7	85.4
D	91.5	103.3	101.3	102.4	100.5	97.8	96.6	96.7	97.1	91.6
OASPL	99.3	107.7	106.7	108.6	107.7	105.7	104.7	102.6	102.8	98.0
PNL	100.8	110.0	108.3	109.7	108.4	105.5	104.6	104.4	104.8	100.3
PNLT	100.8	110.0	109.3	111.1	108.4	106.5	104.6	104.4	104.8	100.3

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 28, 150 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.5	-9.0	-7.5	-6.0	-4.5	-3.0	-1.5	0	2.5
17	88.6	91.2	92.8	94.4	89.5	89.1	92.5	93.2	89.9
18	95.9	102.3	103.1	100.6	103.3	105.0	103.1	89.9	85.0
19	93.6	98.8	100.3	100.1	96.5	96.1	92.8	86.0	78.9
20	94.2	101.1	103.6	101.1	101.8	102.4	96.1	91.1	86.5
21	92.5	100.1	102.2	98.8	100.2	100.1	91.0	93.9	89.6
22	90.2	97.3	100.4	96.7	97.1	95.0	85.4	93.2	88.7
23	86.7	95.0	98.8	94.8	93.4	89.1	88.9	92.9	86.7
24	85.0	92.2	97.9	91.6	87.9	85.1	91.2	88.7	81.4
25	78.7	88.3	94.7	85.1	80.2	89.1	89.7	86.8	84.1
26	75.9	86.9	93.7	83.4	87.6	90.9	84.8	87.0	83.2
27	74.8	82.4	88.8	82.7	85.4	86.2	84.2	82.1	80.1
28	71.1	81.1	85.6	83.9	84.8	78.7	80.2	79.5	78.5
29	72.0	77.5	84.0	83.3	80.3	74.6	77.7	78.2	78.9
30	70.2	76.2	81.0	78.9	75.9	73.6	75.6	77.0	77.8
31	69.4	76.6	79.3	74.6	76.5	69.7	72.9	75.5	75.5
32	66.9	74.6	76.6	76.3	73.2	68.6	72.0	76.0	74.6
33	65.9	71.2	72.7	72.7	71.8	67.2	71.7	75.2	72.8
34	65.0	66.3	72.0	69.4	68.2	65.4	70.5	74.4	71.9
35	65.0	65.0	67.8	65.3	65.6	65.0	68.9	73.3	70.1
36	65.0	65.0	65.3	65.0	65.0	65.0	66.4	71.5	68.5
37	65.0	65.0	65.0	65.0	65.0	65.0	65.3	69.4	66.9
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	66.5	65.3
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	84.6	93.0	97.6	92.5	92.3	91.7	90.1	91.1	87.4
D	94.5	101.3	104.9	100.6	100.5	100.5	97.8	97.9	93.5
OASPL	100.9	107.3	109.8	107.0	107.5	107.9	106.2	104.6	99.2
PNL	102.0	108.2	111.4	108.3	108.2	108.0	106.1	105.7	101.7
PNLT	102.0	108.2	111.4	108.3	108.2	108.0	106.1	105.7	101.7

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 29, 150 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.5	-9.0	-7.5	-6.5	-6.0	-4.5	-3.0	-1.5	0	2.5
17	92.8	95.3	91.4	91.1	91.4	93.9	91.1	98.6	94.5	90.9
18	98.4	103.3	104.6	104.3	104.2	104.8	105.4	101.3	90.5	85.8
19	90.7	98.1	98.4	99.5	100.4	101.5	97.9	97.1	87.1	80.2
20	93.7	102.5	104.7	105.5	105.4	104.7	102.8	95.7	93.2	87.4
21	87.2	99.5	102.4	103.0	103.3	102.3	99.7	88.5	94.4	91.5
22	86.9	97.2	100.5	102.1	102.1	100.3	94.6	84.4	95.1	91.2
23	86.0	92.9	99.3	100.6	100.6	97.2	88.4	88.6	93.7	89.6
24	87.0	90.3	96.7	98.9	98.7	93.2	85.7	90.7	88.2	83.0
25	85.8	86.1	94.0	94.7	94.2	85.4	90.0	88.4	86.4	86.3
26	85.3	86.8	95.2	94.4	93.4	89.8	92.3	83.6	88.2	84.6
27	82.5	84.1	92.2	90.0	88.3	90.6	88.0	83.2	83.0	81.5
28	80.4	82.3	90.3	88.1	86.8	90.4	80.9	77.9	81.4	79.7
29	75.5	82.5	88.4	86.3	86.7	88.5	78.8	75.8	79.5	78.1
30	73.5	81.2	85.9	86.6	86.5	83.6	77.3	74.2	79.0	77.4
31	72.7	78.5	82.9	85.4	85.7	84.8	72.8	72.6	78.2	75.7
32	69.7	74.8	82.5	83.9	83.7	81.2	70.5	72.6	77.6	73.9
33	67.7	73.9	80.4	81.9	82.2	80.5	69.0	72.5	76.4	72.7
34	65.9	71.2	77.0	78.3	78.8	78.2	66.5	71.3	76.2	71.6
35	65.0	68.0	73.8	76.2	76.1	73.3	65.2	69.4	74.3	69.7
36	65.0	65.9	69.3	70.8	71.0	72.4	65.0	67.4	72.6	68.5
37	65.0	65.3	65.2	67.2	67.3	68.5	65.0	66.8	70.1	66.3
38	65.0	65.0	65.0	65.0	65.0	69.9	65.0	65.0	66.5	65.2
39	65.0	65.0	65.0	65.0	65.0	66.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	87.1	92.9	98.9	99.3	99.2	97.8	92.7	89.1	92.0	88.8
D	94.7	101.2	105.3	106.3	106.6	104.7	101.2	97.8	99.0	95.1
OASPL	101.9	107.9	110.2	110.9	111.1	110.3	108.5	106.6	105.0	100.3
PNL	103.2	109.2	112.9	113.5	113.4	112.4	108.8	105.5	106.7	103.1
PNLT	103.2	109.2	112.9	113.5	113.4	112.4	108.8	105.5	106.7	103.1

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 30, 126 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0	0	2.0	4.0
17	79.6	86.8	86.4	87.4	88.6	90.4	88.7	88.7	84.3
18	90.1	99.2	99.2	98.1	100.3	96.3	86.0	82.9	81.4
19	80.2	94.1	94.3	94.5	93.8	90.6	83.1	83.1	75.1
20	80.9	95.5	95.9	94.1	93.1	89.0	89.9	88.9	70.8
21	82.7	95.9	95.3	91.9	92.6	82.5	92.9	90.3	75.1
22	83.0	92.7	91.4	87.7	87.0	80.3	91.3	86.0	77.9
23	80.0	90.5	88.1	83.5	78.9	83.6	86.8	78.3	77.6
24	77.5	87.3	84.5	79.8	72.0	83.1	79.3	79.9	75.7
25	70.9	80.4	76.7	70.0	72.6	78.2	78.7	79.5	70.4
26	65.8	77.8	71.8	69.6	78.6	76.5	75.9	75.8	75.7
27	65.4	75.6	69.3	71.2	76.9	75.9	73.3	74.6	72.9
28	65.3	70.3	65.6	72.6	70.6	73.2	71.9	74.9	73.3
29	65.0	67.6	65.2	67.6	69.2	72.1	72.2	75.5	72.0
30	65.0	65.6	65.0	65.4	66.9	70.7	71.2	73.8	71.0
31	65.0	65.0	65.0	66.2	65.4	67.8	70.5	72.5	70.7
32	65.0	65.0	65.0	65.0	65.0	67.8	71.9	73.1	70.2
33	65.0	65.0	65.0	65.0	65.5	67.9	71.6	71.2	67.6
34	65.0	65.0	65.0	65.0	65.0	66.5	70.8	69.5	66.3
35	65.0	65.0	65.0	65.0	65.0	65.3	68.9	68.0	65.5
36	65.0	65.0	65.0	65.0	65.0	65.0	68.3	67.4	65.2
37	65.0	65.0	65.0	65.0	65.0	65.0	66.0	65.3	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	76.7	86.2	84.7	83.0	83.1	83.2	85.3	84.8	80.7
D	86.3	95.5	94.8	92.0	92.6	91.0	93.4	91.5	86.1
OASPL	94.0	103.0	102.7	101.5	102.3	100.8	99.6	97.9	92.1
PNL	95.4	103.5	102.5	101.0	101.8	100.3	101.5	100.2	94.9
PNLT	95.4	103.5	102.5	102.0	101.8	100.3	101.5	100.2	94.9

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 31, 126 KT. FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5	4.0
17	77.5	81.6	85.4	85.3	88.1	90.7	89.1	89.7	83.3	81.4
18	84.9	96.6	99.6	98.9	99.7	92.4	87.0	83.9	81.3	78.2
19	76.3	85.9	92.1	92.5	93.0	91.3	84.6	87.9	72.6	72.9
20	78.4	89.7	96.5	95.7	93.4	86.3	91.5	93.6	71.8	67.9
21	79.9	85.9	96.2	94.8	94.1	82.7	94.0	94.9	79.9	71.2
22	79.3	85.4	93.2	93.1	89.7	85.6	93.5	92.2	79.0	74.7
23	79.6	84.3	92.0	91.3	83.0	88.6	89.0	83.5	78.1	75.1
24	77.4	83.6	90.2	88.3	73.4	86.9	82.9	85.2	72.3	72.9
25	69.1	76.0	83.3	77.9	75.3	78.3	81.2	81.2	73.0	68.5
26	67.0	73.3	78.8	69.3	79.6	78.8	79.7	76.4	76.8	75.3
27	65.0	70.2	74.7	68.4	76.3	78.5	75.8	72.9	74.5	73.2
28	65.0	67.7	67.6	69.2	73.0	74.8	74.0	73.3	74.1	72.2
29	65.0	65.8	68.1	68.4	65.9	73.9	73.3	72.6	72.3	70.1
30	65.0	65.9	67.6	65.9	65.9	73.7	72.4	71.2	71.8	69.1
31	65.0	65.0	65.0	65.0	65.2	73.0	72.9	71.9	71.0	68.9
32	65.0	65.0	65.0	65.0	65.0	72.5	72.4	72.7	70.7	68.5
33	65.0	65.0	65.0	65.0	65.0	71.8	71.8	71.0	67.8	66.3
34	65.0	65.0	65.0	65.0	65.0	69.4	71.0	70.1	66.6	65.2
35	65.0	65.0	65.0	65.0	65.0	67.5	69.4	68.7	65.7	65.0
36	65.0	65.0	65.0	65.0	65.0	66.0	68.0	68.2	65.3	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	65.9	66.1	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	75.4	81.2	87.9	86.5	84.1	85.3	87.6	87.1	81.2	79.0
D	84.2	90.2	96.3	95.2	93.4	93.2	95.1	95.0	86.8	84.7
OASPL	91.0	98.5	103.3	102.8	102.3	100.7	100.9	101.1	92.8	90.2
PNL	94.0	99.5	103.9	102.7	102.0	101.5	103.0	102.8	95.4	93.7
PNLT	94.0	99.5	103.9	102.7	102.0	101.5	103.0	102.8	95.4	93.7

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 35, 3 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-37.5	-31.0	-24.5	-18.0	-11.5	-5.0	0	1.0	1.5	8.0
17	81.2	84.1	83.9	82.8	87.0	86.6	88.6	87.5	89.5	89.2
18	80.9	84.4	80.2	79.2	81.5	93.3	87.9	83.6	81.9	85.9
19	83.5	86.5	82.7	81.6	86.3	88.8	85.6	88.0	87.9	81.8
20	86.6	87.0	81.5	83.8	87.2	91.2	92.7	96.3	96.2	73.2
21	87.0	84.9	76.8	83.0	85.9	80.3	97.3	99.5	99.2	68.3
22	86.6	83.7	68.9	83.8	83.7	80.9	96.0	97.7	96.8	74.0
23	83.9	83.8	69.8	78.8	75.6	88.3	90.9	91.4	90.4	80.8
24	78.7	82.5	70.5	71.9	68.5	89.9	90.0	95.3	94.9	81.6
25	74.2	77.7	71.7	65.1	77.9	87.0	93.5	93.4	92.1	79.3
26	77.5	78.0	70.4	68.5	84.3	80.5	88.2	89.5	88.7	73.3
27	73.3	75.1	66.8	72.0	81.7	82.6	87.8	85.0	83.8	74.5
28	73.0	70.2	65.1	74.0	74.8	79.9	83.4	82.3	81.7	71.2
29	67.1	67.9	65.0	73.2	73.4	81.1	82.4	81.7	80.8	72.6
30	65.1	67.3	65.0	65.8	77.4	79.3	80.8	79.0	78.0	70.5
31	65.0	65.2	65.0	65.7	71.9	77.7	77.8	76.9	76.1	68.7
32	65.0	65.0	65.0	66.2	71.5	76.2	76.0	74.9	74.6	70.1
33	65.0	65.0	65.0	65.0	69.5	74.1	73.4	72.5	71.8	65.9
34	65.0	65.0	65.0	65.0	66.7	72.0	72.4	71.6	70.7	65.2
35	65.0	65.0	65.0	65.0	65.0	67.9	69.4	67.9	67.7	65.0
36	65.0	65.0	65.0	65.0	65.0	66.7	67.7	66.4	66.3	65.0
37	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
38	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
39	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
40	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
A	81.0	81.4	73.6	80.1	85.2	90.2	93.7	94.4	93.4	81.4
D	88.8	88.9	82.3	86.0	90.5	95.1	99.7	100.8	100.1	87.3
OASPL	93.8	94.2	89.8	91.4	95.0	99.5	103.2	104.6	104.1	92.5
PNL	97.6	97.8	93.3	95.6	99.7	103.5	107.1	107.6	107.2	96.5
PNLT	97.6	97.8	93.3	95.6	101.3	103.5	107.1	107.6	107.2	96.5

LOWER LIMIT OF ANALYSIS SYSTEM= 65.0

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 2, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	81.9	85.3	77.8	81.5	1.8
15	76.5	79.4	73.5	76.2	1.6
16	82.1	85.1	79.0	81.8	1.7
17	84.6	87.5	82.2	84.4	1.3
18	77.2	79.9	73.1	76.8	1.9
19	79.9	82.9	76.1	79.6	1.9
20	82.1	84.7	77.6	81.8	1.6
21	79.9	82.7	76.7	79.6	1.5
22	81.0	83.5	76.9	80.7	1.7
23	82.2	86.7	77.4	81.6	2.3
24	82.7	86.5	77.8	82.1	2.3
25	81.8	85.7	76.6	81.1	2.6
26	78.6	82.3	74.0	78.0	2.3
27	75.6	79.0	71.3	75.2	1.8
28	71.5	73.8	68.3	71.3	1.3
29	68.4	71.0	65.5	68.2	1.4
30	65.9	67.8	63.7	65.7	1.1
31	65.2	66.9	63.2	64.9	1.4
32	67.8	69.3	65.8	67.7	1.0
33	64.9	66.9	62.5	64.7	1.2
34	63.1	68.4	59.6	62.5	2.1
35	63.1	66.6	58.9	62.3	2.6
36	61.1	63.2	59.2	61.0	1.0
37	57.7	59.5	56.5	57.6	.8
38	55.5	56.6	55.0	55.4	.5
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	82.4	85.4	79.3	82.1	1.5
DBD	88.8	91.5	85.9	88.6	1.4
OASPL	92.1	94.1	89.8	91.9	1.1
PNL	96.1	98.5	93.2	95.9	1.3
PNLT	96.6	98.6	94.0	96.4	1.3

270°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 3, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	91.2	93.1	88.2	91.0	1.4
15	81.4	83.5	78.5	81.3	1.3
16	86.7	88.0	83.8	86.6	1.3
17	83.3	87.4	79.0	82.5	2.6
18	79.8	83.9	75.5	79.3	2.1
19	84.5	87.6	82.3	84.3	1.3
20	84.7	88.1	81.5	84.4	1.7
21	85.9	87.3	83.4	85.8	1.0
22	85.4	89.2	81.1	85.1	1.7
23	86.5	88.8	83.5	86.3	1.5
24	85.9	88.5	82.5	85.7	1.6
25	85.4	89.9	81.4	84.8	2.2
26	82.2	87.6	79.1	81.5	2.3
27	79.4	84.1	76.1	79.0	1.9
28	76.6	79.8	73.5	76.4	1.5
29	74.1	75.9	71.8	73.9	1.1
30	71.7	74.4	69.4	71.5	1.3
31	69.7	72.4	67.8	69.5	1.2
32	71.0	73.4	68.4	70.8	1.2
33	69.0	70.8	67.2	68.9	1.1
34	66.2	68.4	64.3	66.1	1.2
35	63.7	65.9	61.9	63.6	1.1
36	62.4	65.1	60.2	62.2	1.1
37	59.4	62.1	57.2	59.2	1.3
38	56.7	59.3	55.1	56.5	1.2
39	55.0	55.4	55.0	55.0	.1
40	55.0	55.0	55.0	55.0	.0
DBA	86.4	89.6	84.3	86.2	1.3
DBD	92.6	95.2	90.4	92.4	1.2
OASPL	96.3	98.4	94.6	96.2	.9
PNL	99.6	102.3	97.7	99.4	1.2
PNLT	99.6	102.3	97.7	99.4	1.2

225°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 4, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	92.0	96.3	86.9	90.9	3.0
15	79.1	82.0	73.9	78.6	2.2
16	84.6	87.7	74.0	83.6	3.5
17	84.1	83.7	76.7	82.1	3.9
18	83.8	86.7	77.8	83.4	2.1
19	85.4	88.1	83.0	85.2	1.2
20	85.6	87.4	83.2	85.3	1.4
21	87.1	90.2	82.3	86.7	1.9
22	88.6	93.5	85.1	88.1	2.0
23	89.0	92.2	85.5	88.7	1.6
24	89.6	94.9	85.7	88.9	2.3
25	89.0	93.6	83.5	88.2	2.5
26	85.6	90.2	80.3	85.0	2.2
27	82.5	86.5	78.5	82.0	2.0
28	78.9	84.4	74.5	78.2	2.2
29	74.9	79.6	71.5	74.4	1.9
30	72.9	77.9	68.1	72.3	2.2
31	71.2	74.6	67.1	70.8	1.9
32	71.2	74.0	68.2	70.9	1.7
33	69.3	72.6	66.3	69.0	1.7
34	66.7	69.2	63.1	66.5	1.4
35	64.6	67.9	61.6	64.3	1.4
36	61.7	63.8	59.8	61.6	.9
37	59.0	60.7	57.8	58.9	.7
38	56.1	57.0	55.2	56.1	.4
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	89.0	93.4	85.2	88.6	1.9
DBD	95.3	99.5	92.2	94.8	1.8
OASPL	98.4	101.7	96.2	98.1	1.5
PNL	102.0	105.6	99.2	101.6	1.7
PNLT	102.0	105.6	99.2	101.6	1.7

180°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 5, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	92.8	94.4	91.7	92.8	.7
15	85.5	87.2	84.1	85.5	.8
16	91.1	92.6	89.4	91.0	.8
17	86.8	88.3	83.2	86.6	1.3
18	86.6	88.0	83.6	86.4	1.3
19	87.5	90.0	84.6	87.2	1.4
20	88.0	90.9	84.5	87.7	1.9
21	87.8	91.6	84.6	87.4	1.9
22	88.7	92.1	85.4	88.3	1.8
23	90.0	92.6	86.5	89.7	1.7
24	91.3	93.4	87.4	91.0	1.7
25	89.9	93.1	84.9	89.4	2.3
26	85.7	87.9	81.9	85.3	1.8
27	83.7	86.5	79.3	83.3	1.8
28	83.9	87.4	79.0	83.3	2.5
29	81.6	85.7	76.7	80.9	2.5
30	78.8	83.0	72.6	78.1	2.6
31	77.6	80.2	73.8	77.2	1.9
32	78.3	80.8	73.9	78.0	1.8
33	77.0	80.2	73.3	76.6	1.9
34	74.3	77.7	69.7	73.9	2.0
35	72.3	76.0	68.7	71.9	1.9
36	70.0	73.7	64.4	69.4	2.3
37	67.3	71.0	63.3	66.7	2.2
38	63.4	67.1	59.5	63.0	2.0
39	59.3	64.1	55.4	58.6	2.3
40	56.0	58.4	55.0	55.9	1.0
DBA	91.6	93.5	88.4	91.3	1.5
DBD	97.2	99.7	94.4	97.0	1.4
OASPL	100.1	101.5	98.1	100.0	1.0
PNL	105.0	106.7	101.9	104.8	1.3
PNLT	105.1	107.7	101.9	104.9	1.4

135°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 6, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	89.5	91.4	87.5	89.4	1.1
15	80.6	82.8	76.4	80.3	1.7
16	86.1	88.3	83.5	85.9	1.1
17	96.4	97.8	94.9	96.3	.7
18	87.5	90.3	82.3	86.9	2.5
19	89.5	92.5	85.6	89.2	1.7
20	90.0	91.9	87.8	89.9	1.0
21	86.8	88.8	82.4	86.4	1.8
22	87.3	90.0	82.1	86.8	2.2
23	88.2	92.1	81.9	87.1	3.0
24	89.9	94.2	85.5	89.0	2.7
25	88.3	92.1	84.1	87.7	2.3
26	83.7	87.3	80.0	83.3	1.9
27	81.4	84.4	75.7	80.9	2.2
28	78.6	83.3	74.8	78.1	2.0
29	74.8	80.2	71.5	74.1	2.3
30	71.9	75.8	67.1	71.5	2.1
31	70.1	74.2	66.9	69.6	2.0
32	69.9	74.0	66.9	69.5	1.8
33	67.6	70.4	65.2	67.3	1.4
34	64.5	66.6	62.1	64.4	1.1
35	62.5	64.7	60.6	62.3	1.1
36	60.2	62.6	58.3	60.0	1.1
37	57.9	60.2	56.4	57.8	1.0
38	55.2	56.1	55.0	55.2	.3
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	88.6	92.1	84.9	88.1	2.0
DBD	95.1	98.1	92.4	94.8	1.7
OASPL	100.0	101.5	98.8	99.9	.8
PNL	102.2	105.2	100.1	101.9	1.5
PNLT	102.2	105.2	100.1	101.9	1.5

90°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 7, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	91.7	93.3	90.4	91.6	.7
15	81.7	83.6	79.2	81.5	1.2
16	87.5	88.8	85.2	87.4	1.0
17	89.5	91.1	88.0	89.5	.9
18	91.4	92.7	89.8	91.3	.8
19	93.2	95.0	90.9	93.1	.8
20	93.2	95.9	90.8	93.0	1.1
21	92.4	94.8	90.9	92.3	.9
22	90.0	92.8	86.4	89.8	1.5
23	88.8	91.7	83.5	88.5	1.8
24	87.9	90.5	82.8	87.6	1.7
25	85.9	88.9	80.4	85.5	1.9
26	84.6	86.9	78.5	84.3	1.9
27	81.7	85.2	75.0	81.2	2.3
28	78.4	81.6	73.6	78.0	2.0
29	75.6	78.0	71.3	75.3	1.6
30	72.0	76.6	68.5	71.6	1.8
31	70.6	74.5	67.8	70.3	1.5
32	71.6	75.8	68.9	71.3	1.5
33	70.4	73.3	67.2	70.3	1.2
34	69.8	73.2	65.4	69.4	1.9
35	67.9	70.0	64.8	67.7	1.4
36	66.3	68.9	63.8	66.1	1.4
37	64.9	67.5	63.0	64.7	1.3
38	60.7	62.4	59.1	60.6	.9
39	56.9	58.7	55.4	56.8	.9
40	55.0	55.0	55.0	55.0	.0
DBA	88.7	90.8	85.0	88.5	1.3
DBD	96.0	98.4	93.8	95.9	1.0
OASPL	101.0	103.0	100.1	100.9	.7
PNL	103.0	105.3	101.3	102.9	.9
PNLT	103.0	105.3	101.3	102.9	.9

45°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 8, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	97.2	97.9	96.4	97.2	.4
15	85.5	86.7	84.0	85.4	.8
16	90.9	92.0	89.5	90.8	.7
17	81.3	85.0	75.0	80.4	2.8
18	83.7	85.7	79.8	83.5	1.2
19	86.1	88.0	83.2	85.9	1.1
20	88.4	89.9	86.2	88.3	.7
21	87.3	89.3	85.4	87.2	1.1
22	86.8	88.6	84.8	86.7	.9
23	87.2	90.1	81.9	86.7	2.2
24	88.3	92.7	80.3	87.2	3.3
25	87.9	93.4	79.4	86.5	3.5
26	84.9	90.3	77.4	83.9	3.1
27	82.4	87.1	77.4	81.4	2.8
28	80.3	84.6	74.6	79.6	2.5
29	77.6	81.5	71.9	77.0	2.4
30	75.0	79.2	69.2	74.1	2.9
31	73.0	76.0	68.4	72.6	2.0
32	73.1	76.5	70.0	72.9	1.5
33	71.7	75.7	68.3	71.3	1.9
34	68.9	72.6	65.9	68.5	1.9
35	67.3	72.2	63.7	66.8	2.1
36	65.7	69.9	62.9	65.3	1.5
37	64.9	68.2	62.0	64.7	1.3
38	60.8	63.5	58.6	60.6	1.1
39	56.4	58.8	55.0	56.3	.9
40	55.0	55.0	55.0	55.0	.0
DBA	89.1	92.3	84.2	88.6	2.1
DBD	94.9	97.9	91.0	94.5	1.7
OASPL	99.5	101.2	97.8	99.4	.9
PNL	102.1	105.2	97.9	101.7	1.8
PNLT	102.1	105.2	97.9	101.8	1.7

0°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 9, 315 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	84.5	86.0	81.1	84.4	1.2
15	81.0	82.2	79.2	80.9	.9
16	87.4	88.4	85.4	87.3	.8
17	87.6	89.0	86.5	87.5	.6
18	82.6	85.4	79.4	82.3	1.5
19	85.7	88.2	82.9	85.4	1.3
20	84.4	86.9	81.8	84.2	1.5
21	84.6	87.2	81.1	84.3	1.7
22	83.8	87.0	80.0	83.3	2.1
23	84.2	86.9	81.1	83.9	1.7
24	85.3	87.4	81.8	85.0	1.8
25	84.3	87.2	80.8	84.0	1.8
26	81.1	83.5	77.5	80.8	1.5
27	78.7	81.7	74.8	78.5	1.5
28	74.2	76.7	70.1	73.9	1.8
29	68.4	70.9	64.7	68.0	1.7
30	64.8	67.9	61.1	64.4	1.8
31	64.9	68.0	60.7	64.5	2.0
32	67.2	70.2	63.3	66.9	1.9
33	65.6	68.8	61.5	65.2	1.9
34	62.8	64.8	59.3	62.5	1.5
35	61.8	63.5	58.3	61.6	1.4
36	63.9	65.8	61.0	63.6	1.5
37	60.8	62.1	58.9	60.7	1.0
38	58.2	59.9	56.1	58.0	1.1
39	55.1	55.7	55.0	55.1	.2
40	55.0	55.0	55.0	55.0	.0
DBA	84.9	87.0	81.8	84.6	1.6
DBD	91.2	93.3	88.5	91.0	1.5
OASPL	95.4	97.0	93.8	95.3	1.0
PNL	98.5	100.4	95.8	98.3	1.4
PNLT	98.9	101.0	95.8	98.7	1.6

315°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 10, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	87.3	90.6	78.1	86.0	3.8
15	76.7	80.8	68.8	75.7	3.2
16	82.7	87.1	74.3	81.5	3.5
17	84.1	86.7	78.5	83.6	2.2
18	79.8	84.5	73.6	78.4	3.3
19	80.9	86.0	73.5	79.3	3.7
20	80.9	85.9	70.8	79.3	4.2
21	80.7	85.7	73.4	79.3	3.7
22	80.7	85.3	74.4	79.7	3.1
23	82.0	85.7	75.8	81.2	2.7
24	83.4	87.5	76.6	82.5	2.8
25	83.2	87.2	75.2	82.2	3.2
26	78.5	81.4	71.6	78.0	2.4
27	75.3	78.6	70.1	74.8	2.1
28	71.3	75.1	67.3	70.7	2.3
29	67.7	71.2	62.8	67.0	2.6
30	66.4	69.7	61.1	65.8	2.5
31	64.9	67.2	60.8	64.4	2.0
32	65.6	68.2	62.5	65.3	1.7
33	63.5	66.6	59.6	63.1	2.0
34	60.6	63.8	56.5	60.2	2.0
35	59.0	62.1	56.2	58.6	1.8
36	58.6	61.0	56.1	58.3	1.4
37	56.0	57.9	55.0	56.0	.9
38	55.1	55.5	55.0	55.1	.1
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	82.5	85.9	77.5	82.0	2.3
DBD	88.9	92.2	83.8	88.3	2.4
OASPL	92.9	95.8	88.3	92.4	2.1
PNL	96.1	99.4	91.8	95.6	2.2
PNLT	96.1	99.4	91.8	95.6	2.2

270°
(Microphone Location Relative to Helicopter)

TABLE H-VIII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 2, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	84.8	86.0	82.8	84.8	.8
15	75.0	77.1	73.2	75.0	.9
16	82.5	84.4	80.8	82.4	.9
17	91.4	92.5	90.5	91.4	.6
18	93.0	93.9	92.2	93.0	.4
19	90.3	91.5	88.6	90.2	.7
20	88.7	90.8	86.1	88.6	1.0
21	88.3	90.8	86.8	88.3	.8
22	89.0	91.7	87.1	88.9	1.1
23	88.0	89.6	85.0	87.9	1.1
24	86.3	88.6	82.9	86.1	1.4
25	85.5	87.9	82.6	85.3	1.3
26	83.3	86.8	81.0	83.1	1.3
27	80.0	82.6	76.9	79.8	1.5
28	78.7	81.9	73.9	78.3	1.9
29	75.5	78.1	72.5	75.3	1.3
30	72.8	74.1	70.2	72.7	.9
31	71.0	72.1	68.7	71.0	.8
32	70.9	72.0	69.6	70.9	.6
33	68.1	70.0	65.8	68.0	1.2
34	67.2	70.0	64.2	66.9	1.6
35	65.2	67.4	61.8	65.0	1.3
36	62.6	64.8	59.8	62.4	1.2
37	60.7	62.5	58.7	60.6	1.0
38	57.4	59.4	55.8	57.3	.9
39	55.1	55.4	55.0	55.1	.1
40	55.0	55.0	55.0	55.0	.0
DBA	87.3	89.6	85.8	87.2	.9
DBD	93.8	95.9	92.7	93.8	.8
OASPL	98.6	99.9	97.7	98.6	.5
PNL	101.5	103.1	100.2	101.4	.7
PNLT	101.5	103.1	100.2	101.4	.7

90°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 3, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	88.3	89.7	86.5	88.3	.8
15	77.3	78.8	75.0	77.2	1.0
16	83.5	85.6	80.7	83.3	1.3
17	85.9	90.0	81.7	85.5	1.9
18	87.0	88.9	85.3	86.9	1.0
19	90.4	92.2	88.5	90.3	.9
20	89.3	91.2	87.1	89.2	1.2
21	91.1	93.5	86.7	90.6	2.1
22	88.7	92.5	84.1	88.2	2.1
23	87.9	91.8	83.3	87.2	2.4
24	87.4	90.9	82.5	86.8	2.3
25	85.8	90.8	81.1	85.1	2.2
26	84.3	89.0	80.9	83.7	2.1
27	81.1	84.0	77.9	80.8	1.5
28	78.5	82.6	75.6	78.1	1.7
29	76.3	81.1	71.2	75.7	2.2
30	72.7	78.7	66.7	71.5	3.1
31	72.0	78.6	64.9	70.4	3.7
32	72.2	77.5	65.0	71.1	3.3
33	69.6	74.8	62.7	68.6	2.9
34	69.9	75.1	62.5	68.8	3.2
35	66.6	69.7	60.2	65.8	2.8
36	65.8	71.7	60.1	64.7	3.0
37	63.4	66.0	58.5	62.9	2.3
38	59.4	62.4	55.2	58.8	2.2
39	55.6	57.1	55.0	55.5	.6
40	55.0	55.0	55.0	55.0	.0
DBA	87.8	91.7	84.4	87.4	1.8
DBD	94.5	98.1	91.0	94.1	1.8
OASPL	98.4	101.0	95.7	98.1	1.5
PNL	101.9	105.4	98.2	101.5	2.0
PNLT	102.2	106.7	98.2	101.6	2.2

45°
(Microphone Location Relative to Helicopter)

TABLE H-VIII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 4, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	92.4	93.8	91.3	92.4	.8
15	83.0	85.4	73.4	81.5	4.3
16	89.4	91.8	77.1	87.6	5.1
17	84.0	87.7	75.0	82.3	4.3
18	81.0	85.3	74.3	80.2	2.6
19	84.4	87.3	81.3	84.1	1.7
20	85.6	88.3	83.4	85.3	1.5
21	85.4	88.9	80.9	84.8	2.5
22	87.2	89.9	82.0	86.6	2.4
23	88.5	92.3	81.7	87.5	3.2
24	88.5	91.9	81.8	87.8	2.8
25	86.8	89.7	78.2	86.0	2.9
26	85.5	89.1	76.1	84.6	3.2
27	80.0	84.3	71.4	79.2	3.1
28	74.6	76.8	68.5	74.1	2.1
29	73.2	76.4	66.9	72.5	2.7
30	71.3	75.7	63.8	70.5	2.8
31	69.4	72.5	62.9	68.7	2.6
32	68.8	71.1	63.9	68.4	1.8
33	64.9	67.5	59.8	64.5	2.3
34	63.8	66.7	58.9	63.3	2.2
35	62.1	64.3	57.6	61.6	2.2
36	61.5	64.0	57.7	61.1	1.9
37	62.4	66.1	56.9	61.5	3.0
38	58.3	61.2	55.1	57.9	1.9
39	55.2	56.3	55.0	55.2	.4
40	55.0	55.0	55.0	55.0	.0
DBA	87.5	90.4	80.5	87.0	2.5
DBD	93.8	96.6	87.9	93.3	2.3
OASPL	97.4	99.7	94.7	97.3	1.3
PNL	100.6	102.9	95.3	100.2	2.0
PNLT	100.9	104.0	95.6	100.5	1.9

0°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 5, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	84.6	87.8	79.7	84.3	1.8
15	81.6	83.4	79.2	81.5	1.0
16	88.6	90.0	86.9	88.5	.8
17	85.2	87.7	83.0	85.1	1.2
18	82.5	88.2	77.7	81.5	2.7
19	82.8	85.1	79.1	82.5	1.8
20	83.2	87.4	78.2	82.8	1.9
21	83.7	86.1	81.1	83.5	1.3
22	83.0	85.1	78.1	82.7	1.8
23	85.0	89.6	81.0	84.5	2.0
24	85.5	88.6	82.1	85.1	1.9
25	84.5	87.4	81.1	84.1	1.8
26	82.3	85.6	78.6	81.9	1.8
27	77.7	81.3	75.1	77.4	1.7
28	74.6	78.5	71.5	74.2	1.8
29	71.1	73.0	68.7	70.8	1.4
30	69.0	71.9	66.1	68.8	1.5
31	67.3	69.9	64.2	67.1	1.4
32	67.8	70.7	65.5	67.5	1.4
33	64.8	69.4	61.2	64.2	2.1
34	63.5	66.6	60.2	63.1	1.8
35	62.2	64.8	59.5	62.0	1.6
36	64.8	67.2	62.0	64.5	1.6
37	60.9	63.4	58.8	60.7	1.3
38	58.1	60.4	56.4	58.0	1.1
39	55.1	55.7	55.0	55.1	.2
40	55.0	55.0	55.0	55.0	.0
DBA	85.0	87.6	82.6	84.7	1.5
DBD	91.2	93.6	88.8	91.0	1.3
OASPL	94.6	96.5	93.2	94.6	.8
PNL	98.6	100.8	96.6	98.4	1.2
PNLT	99.4	102.3	96.7	99.2	1.4

315°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 6, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	92.3	93.9	91.3	92.2	.6
15	83.0	84.3	80.9	83.0	.7
16	89.3	90.7	87.7	89.3	.7
17	83.4	86.9	78.0	82.7	2.6
18	85.9	89.5	80.6	85.2	2.5
19	86.4	90.4	82.6	85.7	2.4
20	85.7	89.6	80.5	85.1	2.4
21	84.8	87.4	82.0	84.5	1.7
22	82.4	83.9	80.0	82.3	1.0
23	83.2	85.6	78.8	82.9	1.5
24	83.6	85.6	80.6	83.3	1.8
25	81.9	84.8	77.8	81.4	2.0
26	80.6	84.2	76.2	80.0	2.3
27	77.6	80.7	73.5	77.2	2.0
28	75.7	79.1	70.8	75.3	2.0
29	72.7	75.9	69.1	72.4	1.6
30	70.1	72.4	67.3	69.8	1.5
31	67.9	70.0	65.5	67.7	1.3
32	69.0	70.8	66.7	68.9	1.2
33	65.1	66.6	63.0	65.0	1.1
34	64.0	65.7	61.7	63.9	1.0
35	61.5	63.5	59.3	61.4	.9
36	61.3	63.2	59.5	61.2	.8
37	58.2	59.6	56.5	58.1	.8
38	55.7	56.5	55.0	55.7	.4
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	84.0	86.3	81.2	83.8	1.3
DBD	90.4	91.8	88.1	90.3	.9
OASPL	95.7	96.9	94.2	95.6	.7
PNL	97.9	99.7	95.3	97.8	.9
PNLT	98.1	99.9	96.4	98.0	.9

270°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 7, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	92.2	93.3	91.3	92.2	.5
15	78.9	80.4	76.2	78.8	1.3
16	85.5	87.0	82.3	85.3	1.5
17	78.6	84.0	73.1	77.8	2.6
18	81.9	83.9	79.8	81.8	1.0
19	87.6	89.8	85.7	87.5	1.1
20	84.4	86.3	81.6	84.2	1.3
21	86.5	88.2	84.9	86.4	.8
22	85.5	87.8	82.6	85.4	1.3
23	86.8	88.9	83.2	86.5	1.5
24	87.4	90.1	84.1	87.2	1.4
25	85.9	89.7	81.6	85.6	1.6
26	84.5	87.6	80.8	84.2	1.4
27	80.6	83.2	77.6	80.4	1.4
28	78.9	81.5	76.5	78.8	1.0
29	76.7	78.0	75.2	76.6	.9
30	72.9	74.9	70.8	72.8	1.1
31	70.4	72.3	67.0	70.2	1.2
32	70.8	72.5	65.0	70.5	1.6
33	68.4	70.5	62.8	68.2	1.6
34	66.7	67.8	62.6	66.5	1.1
35	62.9	64.5	59.8	62.8	1.0
36	61.1	62.2	58.8	61.1	.8
37	57.8	58.6	55.7	57.8	.6
38	55.3	55.7	55.0	55.3	.2
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	87.3	89.6	85.1	87.2	1.0
DBD	93.2	95.6	91.0	93.1	1.0
OASPL	96.7	98.3	95.0	96.6	.7
PNL	100.4	102.5	98.0	100.3	.9
PNLT	100.4	102.5	98.0	100.3	.9

225°
(Microphone Location
Relative to Helicopter

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 8, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	90.3	91.3	87.7	90.1	1.2
15	82.3	84.3	80.9	82.1	1.0
16	88.9	91.1	87.5	88.8	.9
17	78.2	81.8	74.3	77.7	2.1
18	84.5	87.7	81.7	84.2	1.5
19	83.7	88.0	78.9	83.1	2.2
20	84.2	85.8	80.2	83.9	1.6
21	84.2	86.3	81.4	84.0	1.3
22	83.7	85.7	81.3	83.5	1.4
23	85.7	88.4	81.9	85.2	2.0
24	86.2	89.3	82.7	85.8	1.8
25	85.5	88.8	80.5	85.0	2.0
26	83.1	87.0	79.3	82.7	1.8
27	79.9	83.3	77.0	79.6	1.6
28	77.2	80.5	74.2	6.8	1.7
29	74.7	77.3	71.3	74.2	1.9
30	70.9	74.8	66.6	70.4	2.0
31	68.2	72.2	62.9	67.8	2.0
32	67.9	71.9	64.1	67.4	2.0
33	64.8	68.2	60.7	64.3	2.1
34	63.4	66.4	59.2	63.0	1.9
35	60.6	63.3	57.0	60.3	1.7
36	58.5	61.4	56.0	58.3	1.3
37	56.0	57.0	55.0	55.9	.7
38	55.0	55.2	55.0	55.0	.1
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	86.0	88.7	83.3	85.8	1.5
DBD	91.9	94.5	89.7	91.7	1.3
OASPL	95.6	97.7	94.1	95.5	1.1
PNL	99.0	101.5	97.1	98.8	1.2
PNLT	99.0	101.5	97.1	98.8	1.2

180°
(Microphone Location Relative to Helicopter)

TABLE H-VIII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 9, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	89.8	90.8	88.0	89.7	.7
15	81.2	82.6	78.9	81.1	.8
16	88.0	89.1	86.2	88.0	.8
17	80.0	82.7	75.5	79.7	1.8
18	82.8	86.7	76.8	82.2	2.4
19	86.4	89.7	80.3	86.1	1.9
20	86.8	89.9	82.2	86.4	1.8
21	87.0	89.9	82.5	86.6	2.1
22	87.2	90.7	82.8	86.7	2.1
23	86.9	90.6	83.3	86.5	1.8
24	86.4	89.3	82.6	85.9	2.1
25	84.5	89.0	78.8	83.7	2.7
26	83.5	88.5	77.8	82.5	2.9
27	80.5	84.3	75.2	79.8	2.6
28	79.5	83.0	73.6	78.6	2.9
29	77.6	82.6	72.5	76.8	2.6
30	75.6	79.0	70.6	75.0	2.4
31	74.0	77.0	70.3	73.5	2.0
32	72.3	74.8	69.1	72.1	1.5
33	69.7	72.5	66.3	69.4	1.6
34	68.7	71.4	65.6	68.4	1.6
35	65.1	67.5	61.9	64.8	1.4
36	63.0	64.6	60.2	62.8	1.4
37	60.4	63.2	58.0	60.2	1.4
38	56.4	59.0	55.2	56.3	1.0
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	87.5	90.2	83.6	87.1	2.0
DBD	93.2	95.8	89.7	92.9	1.7
OASPL	96.7	99.1	94.6	96.5	1.3
PNL	100.7	103.3	97.5	100.4	1.7
PNLT	100.8	103.3	97.5	100.5	1.7

135°
(Microphone Location Relative to Helicopter)

TABLE H-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 10, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	87.5	89.1	84.5	87.4	1.1
15	74.4	76.6	70.8	74.2	1.4
16	83.1	85.1	80.9	82.9	1.3
17	95.1	96.6	91.5	94.9	1.6
18	92.3	94.7	87.6	91.9	1.8
19	90.4	92.2	88.2	90.3	1.0
20	90.4	92.6	86.2	90.1	1.8
21	90.1	91.8	86.8	89.9	1.4
22	89.4	91.7	84.4	89.0	1.9
23	90.8	93.2	86.3	90.4	2.1
24	90.2	93.6	85.4	89.4	2.7
25	88.3	91.8	83.0	87.6	2.5
26	85.5	88.5	81.3	85.1	1.9
27	82.3	86.1	78.8	81.8	2.0
28	81.5	84.1	78.5	81.1	1.8
29	79.2	81.9	76.6	78.9	1.5
30	76.3	79.3	73.4	75.9	1.8
31	73.8	76.2	70.8	73.6	1.3
32	73.2	75.1	69.8	73.0	1.3
33	70.8	72.8	67.0	70.5	1.6
34	69.6	72.9	65.7	69.2	1.8
35	67.1	69.3	63.1	66.8	1.6
36	65.0	67.5	61.6	64.7	1.5
37	62.8	64.8	60.5	62.6	1.2
38	59.1	60.8	55.9	58.9	1.3
39	55.5	56.6	55.0	55.4	.5
40	55.0	55.0	55.0	55.0	.0
DBA	90.0	92.3	87.0	89.7	1.7
DBD	96.2	98.3	93.5	95.9	1.6
OASPL	100.4	102.0	98.3	100.3	1.2
PNL	103.9	106.0	100.9	103.7	1.4
PNLT	103.9	106.0	100.9	103.7	1.4

90°
(Microphone Location Relative to Helicopter)

TABLE H-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 15, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	87.3	90.4	83.7	86.8	2.2
15	79.7	81.5	77.2	79.6	1.3
16	85.3	87.0	82.8	85.2	1.2
17	90.7	91.8	88.1	90.6	1.0
18	87.9	90.0	83.6	87.3	2.5
19	90.6	92.3	88.0	90.4	1.6
20	85.5	87.1	83.2	85.2	1.4
21	80.3	82.5	77.3	80.2	1.2
22	89.8	91.4	86.7	89.6	1.5
23	95.1	97.2	91.5	94.8	1.7
24	96.0	98.7	92.0	95.7	1.8
25	90.3	93.6	85.9	89.8	2.1
26	88.7	91.4	82.8	88.1	2.5
27	91.5	95.3	85.4	90.7	2.8
28	85.6	88.8	77.9	84.6	3.1
29	85.7	89.7	79.8	84.9	2.8
30	84.4	88.5	77.1	83.5	2.8
31	81.7	84.8	74.8	80.9	2.8
32	80.2	83.3	74.3	79.6	2.5
33	78.5	82.1	70.6	77.7	2.8
34	75.8	79.2	67.6	75.2	2.5
35	74.3	77.4	65.8	73.5	2.8
36	72.4	75.9	63.4	71.4	3.2
37	69.3	73.8	61.5	68.0	3.5
38	65.7	71.4	56.8	63.7	4.1
39	62.0	67.6	55.0	60.1	4.1
40	58.7	64.6	55.0	57.6	2.9
DBA	95.1	97.9	90.0	94.6	2.1
DBD	100.2	102.8	95.7	99.9	1.9
OASPL	102.3	104.5	98.7	101.9	1.8
PNL	108.2	111.1	103.3	107.8	2.1
PNLT	108.2	111.1	103.3	107.8	2.1

90°
(Microphone Location Relative to Helicopter)

TABLE H-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 15, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	81.3	85.1	72.6	80.2	3.3
15	80.3	82.5	77.6	80.1	1.6
16	86.9	88.7	85.0	86.8	1.2
17	77.5	80.2	72.9	77.1	1.7
18	83.6	86.2	81.4	83.4	1.3
19	80.1	81.9	77.0	79.9	1.4
20	73.1	76.3	69.7	72.8	1.7
21	73.0	75.2	71.1	72.9	1.0
22	81.0	85.3	78.4	80.6	1.7
23	85.5	90.5	82.3	85.0	2.0
24	86.2	92.1	81.0	85.5	2.3
25	80.1	86.0	72.8	79.2	2.9
26	81.3	86.6	77.2	80.8	1.9
27	82.1	86.9	75.6	81.6	2.3
28	80.1	82.9	74.6	79.7	2.1
29	78.8	81.2	73.3	78.5	1.9
30	77.3	78.9	71.8	77.0	1.8
31	75.6	77.6	70.6	75.3	1.8
32	73.6	75.1	71.3	73.4	1.0
33	70.3	71.8	67.8	70.2	1.0
34	67.5	68.9	66.4	67.5	.6
35	63.7	65.1	62.2	63.7	.8
36	61.9	63.9	59.9	61.7	1.2
37	58.3	60.0	56.6	58.2	.9
38	55.1	55.7	55.0	55.1	.2
39	55.0	55.0	55.0	55.0	.0
40	55.0	55.0	55.0	55.0	.0
DBA	87.2	91.3	82.5	86.8	1.7
DBD	91.6	95.7	88.1	91.3	1.5
OASPL	93.6	97.4	90.8	93.3	1.4
PNL	99.0	103.0	95.9	98.8	1.4
PNLT	99.0	103.0	95.9	98.8	1.4

270°
(Microphone Location Relative to Helicopter)

TABLE H-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 15, 0 DEGREES, CENTERLINE MICROPHONE (HARD SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	98.0	98.8	96.2	98.0	.9
15	79.7	81.0	78.2	79.6	.7
16	84.2	86.1	82.5	84.1	.9
17	77.7	81.7	69.9	76.9	2.8
18	78.8	81.1	75.9	78.6	1.5
19	71.9	74.1	67.9	71.4	2.0
20	82.5	85.2	75.0	81.7	2.9
21	83.5	86.6	76.4	82.9	2.5
22	83.2	86.5	78.9	82.7	2.1
23	80.1	84.5	76.6	79.6	1.9
24	77.8	82.0	73.5	77.3	2.2
25	80.8	83.7	76.8	80.5	1.7
26	77.0	79.3	73.6	76.7	1.6
27	77.8	80.6	73.7	77.5	1.7
28	76.8	79.4	72.0	76.5	1.7
29	75.5	78.1	70.5	75.2	1.8
30	74.1	77.0	70.6	73.8	1.5
31	71.8	72.9	69.0	71.6	1.3
32	72.5	76.3	69.7	72.1	1.9
33	69.2	70.2	67.0	69.1	1.0
34	68.3	69.6	66.6	68.2	.9
35	65.9	66.9	65.0	65.8	.7
36	65.1	65.2	65.0	65.1	.2
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	83.8	85.5	80.0	83.6	1.3
DBD	90.0	92.1	86.8	89.8	1.2
OASPL	96.8	97.9	94.8	96.7	.9
PNL	97.6	99.3	94.7	97.4	1.1
PNLT	97.8	100.4	94.7	97.6	1.4

Helicopter Located Directly Overhead

TABLE H-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

VERTOL CH-47 C

OCTOBER 13, 1976

EVENT 15, 0 DEGREES, CENTERLINE MICROPHONE (SOFT SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	97.9	98.7	95.9	97.8	1.0
15	79.8	81.1	78.1	79.7	.9
16	83.5	85.4	82.0	83.4	1.0
17	79.0	82.2	72.4	78.4	2.6
18	80.0	83.3	76.1	79.6	1.8
19	70.9	73.8	65.2	70.0	2.8
20	81.1	84.2	74.3	80.1	3.1
21	83.7	88.1	78.4	82.9	2.7
22	82.8	86.6	79.1	82.4	1.9
23	80.4	84.8	76.8	79.9	2.0
24	78.3	83.0	72.1	77.5	2.7
25	81.5	85.7	76.0	81.0	2.1
26	77.2	79.3	73.2	76.9	1.7
27	78.3	80.9	74.9	78.1	1.4
28	77.3	79.4	72.8	77.1	1.7
29	75.6	77.5	71.0	75.3	1.8
30	74.2	76.1	70.1	73.9	1.6
31	71.6	72.6	68.4	71.4	1.3
32	72.4	74.8	68.9	72.0	1.7
33	68.3	69.8	66.3	68.2	1.0
34	66.7	68.3	65.1	66.5	1.0
35	65.2	65.5	65.0	65.2	.4
36	65.0	65.0	65.0	65.0	.1
37	65.0	65.0	65.0	65.0	.0
38	65.0	65.0	65.0	65.0	.0
39	65.0	65.0	65.0	65.0	.0
40	65.0	65.0	65.0	65.0	.0
DBA	84.0	86.4	80.8	83.8	1.5
DBD	89.4	92.1	86.7	89.2	1.4
OASPL	96.1	97.6	94.0	95.9	1.1
PNL	97.6	100.4	95.0	97.4	1.3
PNLT	98.0	101.4	95.2	97.8	1.5

(Helicopter Located Directly Overhead)

TABLE H-VIII

Helicopter Noise Level Data

VERTOL CH-47C OCTOBER 13, 1976

Max RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE	MICROPHONE OFFSET TO THE EAST 150M CENTER LINE
5 Ft. HOVER 0°	2 10	86.5 85.5 (270°)	91.0 (90°)
5Ft. HOVER 45°	3	89.3 (225°)	92.0 (45°)
5Ft. HOVER 90°	4	93.0 (180°)	99.0 (0°)
5 Ft. HOVER 135°	5	94.5 (135°)	90.8 (315°)
5Ft HOVER 180°	6	93.0 (90°)	86.0 (270°)
5Ft HOVER 225°	7	93.5 (45°)	89.3 (225°)
5Ft HOVER 270°	8	92.3 (0°)	93.0 (180°)
5Ft. HOVER 315°	9	88.3 (315°)	92.0 (135°)
500Ft HOVER	15	97.5	—
500Ft HOVER	16	89.8	88.8

NO DATA

NO DATA

TABLE H-VIII

Helicopter Noise Level Data

VERTOL CH 47C

OCTOBER 13, 1976

max RMS Noise Level - dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST CENTER LINE 150M	
		OVER Existing Surface	OVER Plywood	OVER Existing Surface	OVER Existing Surface
3° GLIDE SLOPE	32	89.0	92.8	92.5	88.5
	34	86.3	99.0	99.0	85.5
	35	89.5	96.5	95.0	85.0
6° GLIDE SLOPE	12	90.8	97.3	96.8	88.3
	13	86.3	98.0	99.0	88.0
	14	87.8	97.0	96.0	87.3
9° GLIDE SLOPE	19	85.5	96.0	95.8	86.3
	20	88.8	96.0	95.8	85.0
	21	90.0	96.8	96.5	85.3
60 KT LEVEL FLYOVER	17	86.0	90.0	90.3	87.5
	18	86.3	91.0	91.5	86.0
100KT LEVEL FLYOVER	22	84.0	88.3	89.8	87.3
	23	81.3	84.8	83.8	80.0
126 KT LEVEL FLYOVER	30	85.5	89.5	90.3	87.0
	31	87.9	89.8	88.0	90.0

TABLE H-VIII

Helicopter Noise Level Data

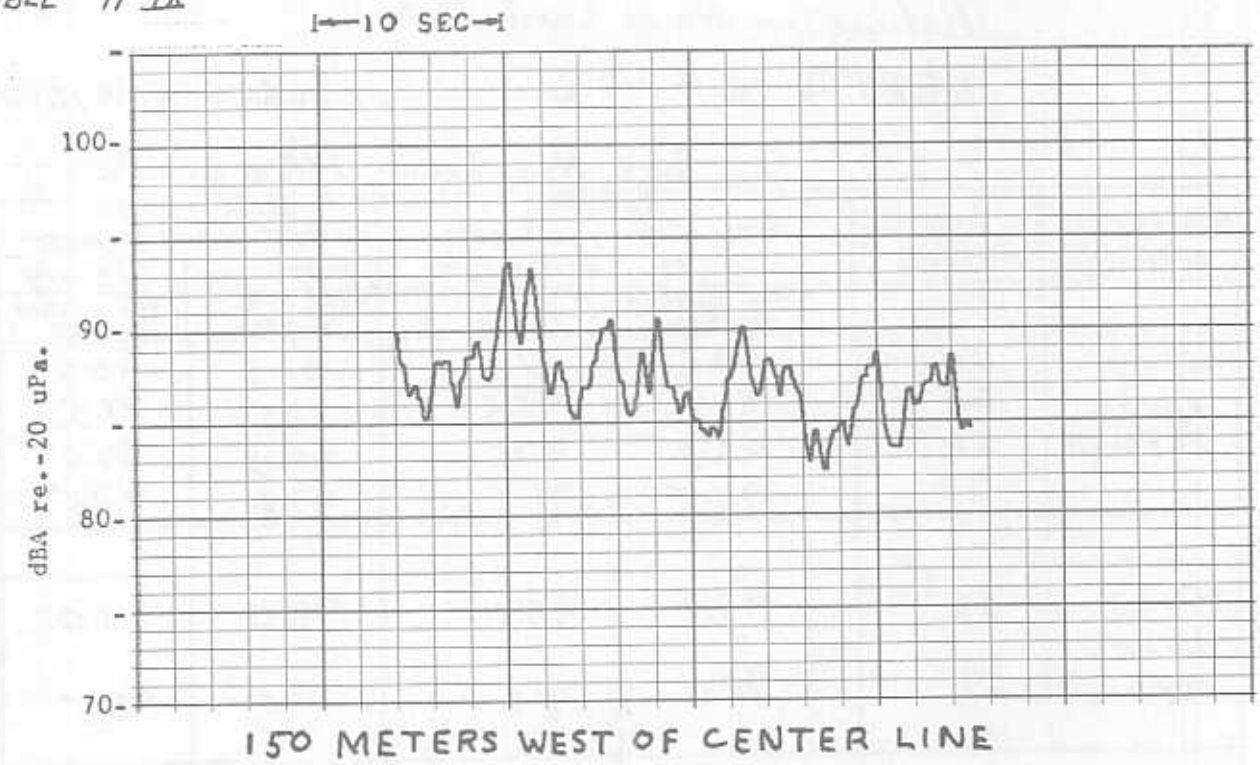
VERTOL CH 47 C

OCTOBER 13, 1976

MAX. RMS Noise Level – dBA re 20 μPa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST 150M CENTER LINE	
		OVER Existing Surface	OVER Plywood	OVER Existing Surface	OVER Existing Surface
141 KT LEVEL FLYOVER	24	90.0	91.3	91.5	90.0
	25	94.0	95.3	93.5	91.5
	26	92.3	94.9	94.0	95.0
	27	94.5	96.3	97.8	97.5
150 KT LEVEL FLYOVER	28	97.8	99.3	98.0	99.0
	29	98.0	98.5	99.3	98.5
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					

TABLE H-IX



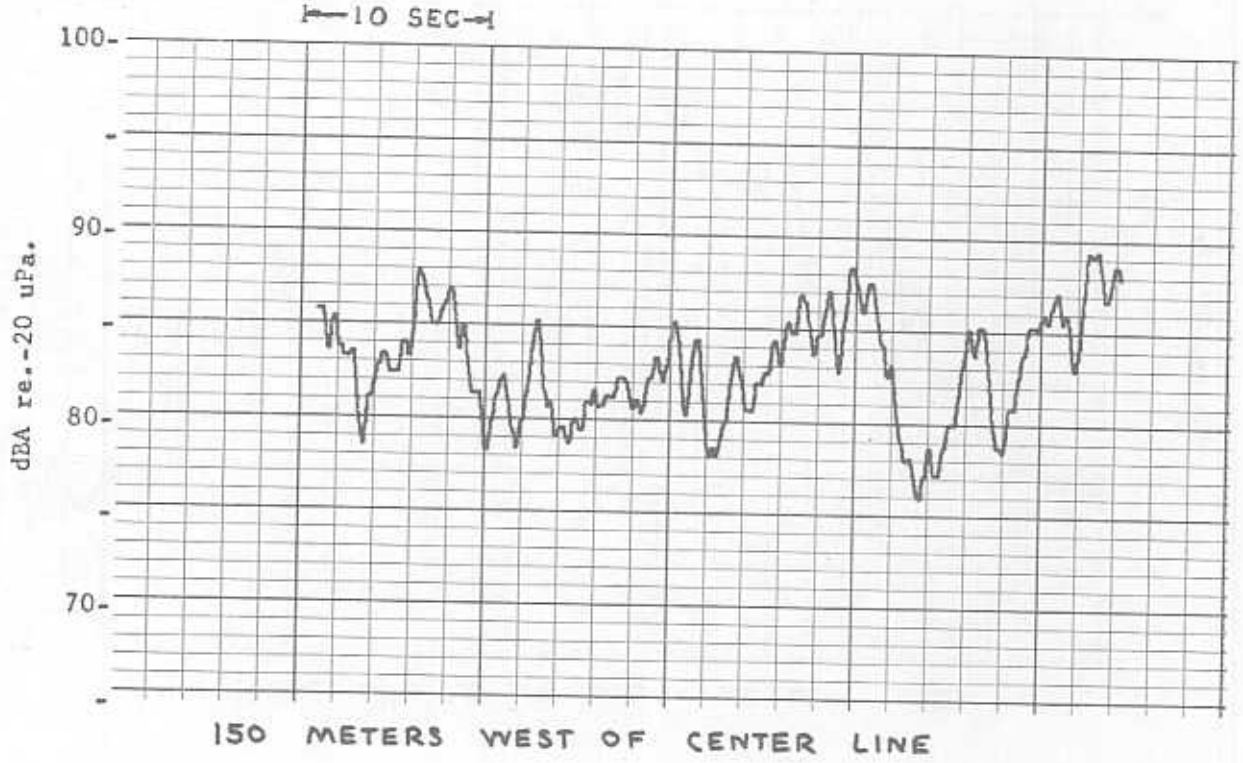
150 METERS WEST OF CENTER LINE

NO DATA

75 METERS WEST OF CENTER LINE

NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
90° HOVER 5 FT. RUN 4

TABLE H-IX

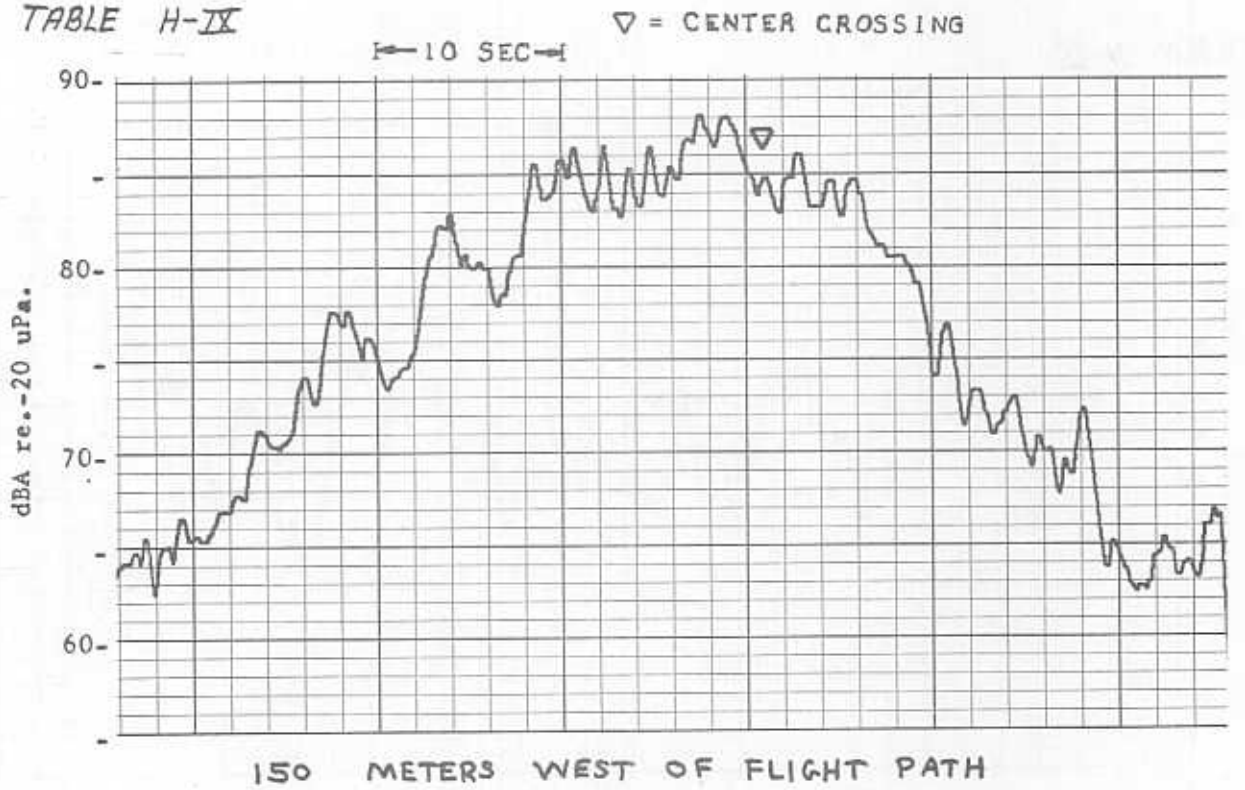


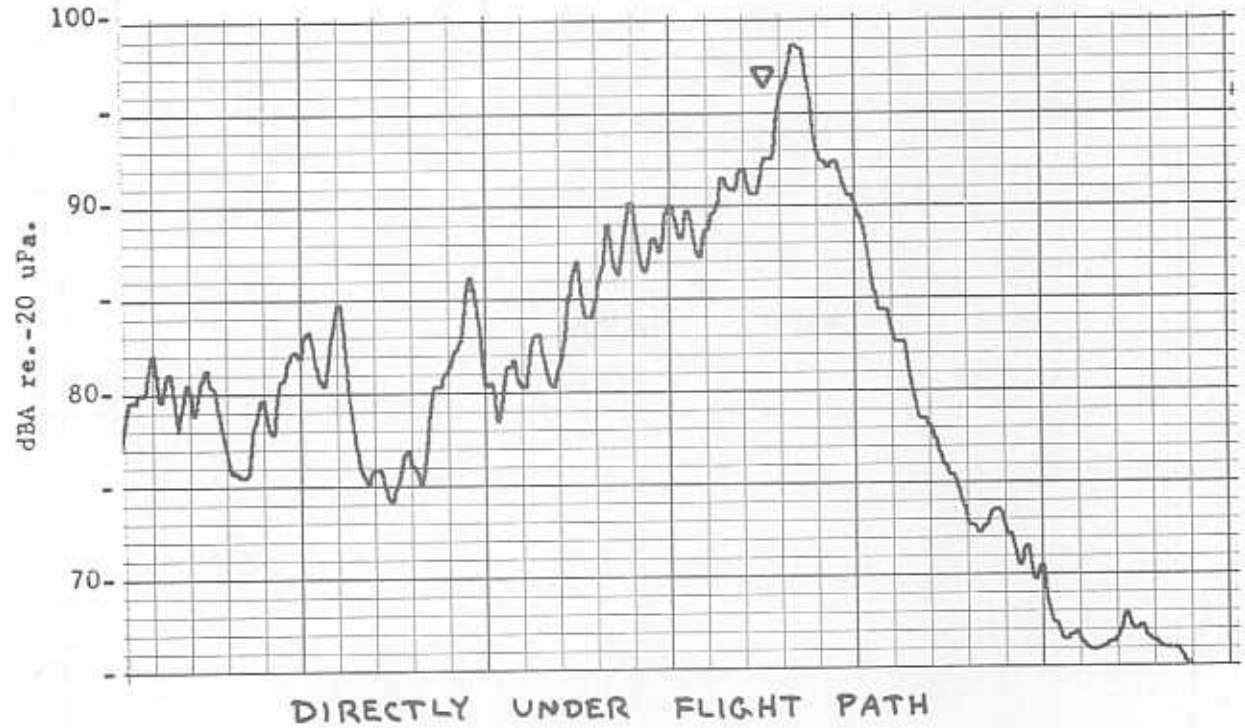
NO DATA

75 METERS WEST OF CENTER LINE

NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
180° HOVER - 5 FT. RUN 6

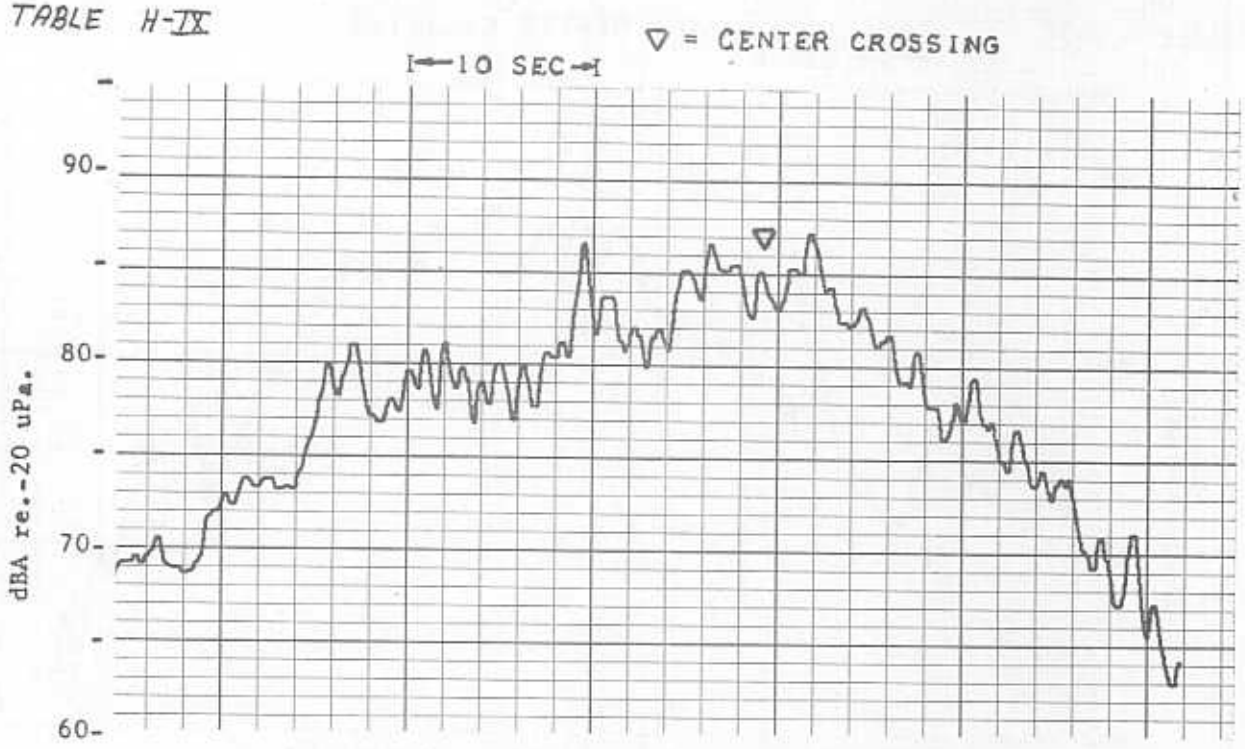
TABLE H-IX



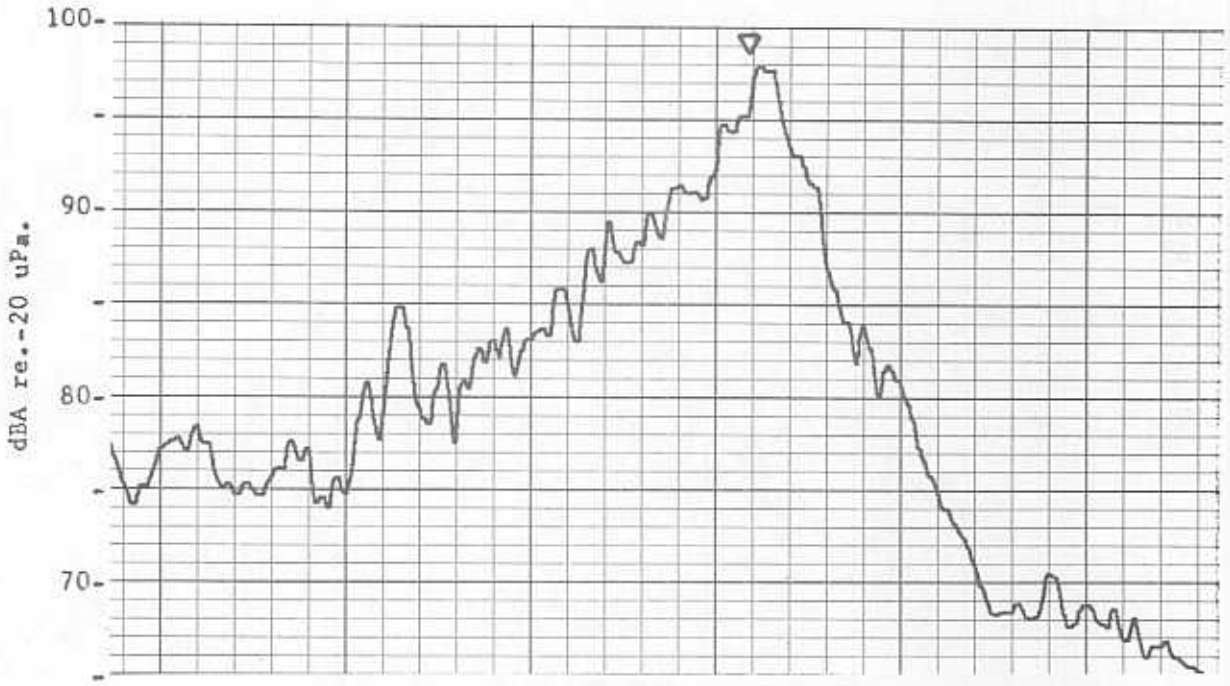


NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
3° APPROACH RUN 34

TABLE H-IX



150 METERS WEST OF FLIGHT PATH

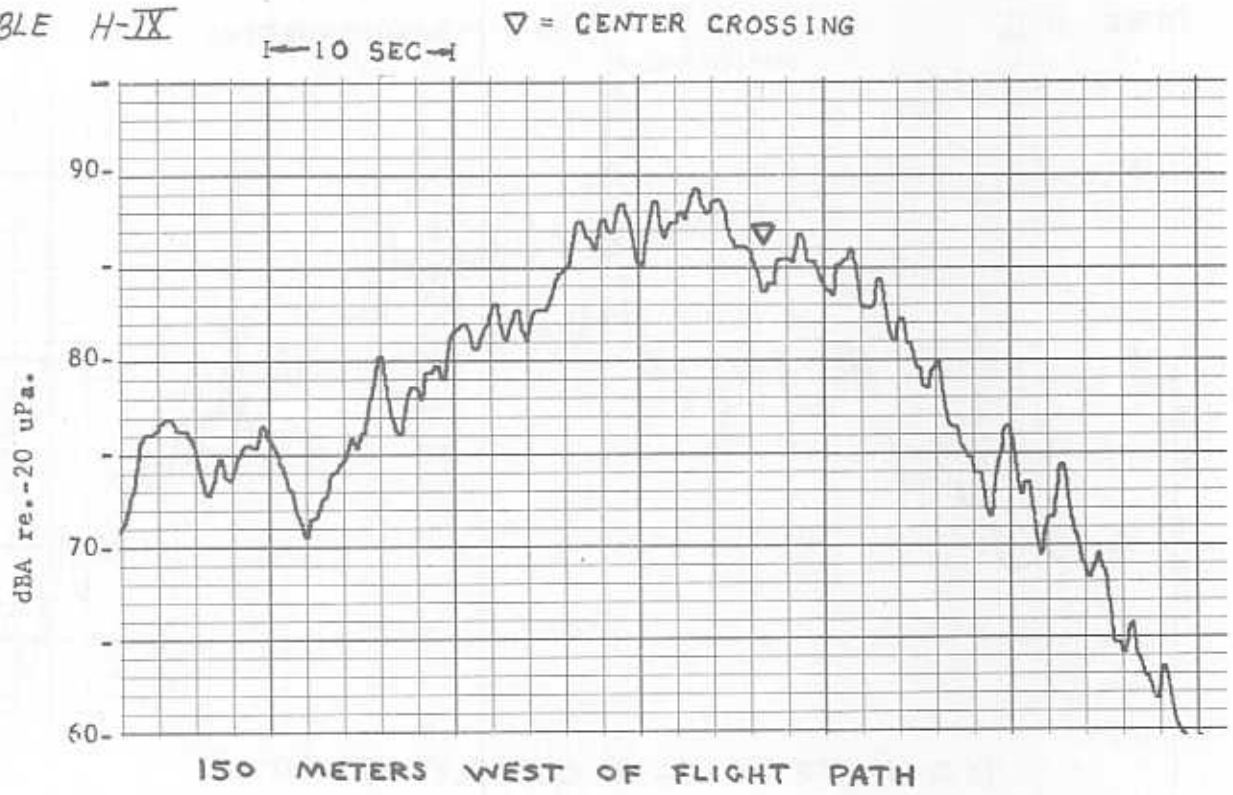


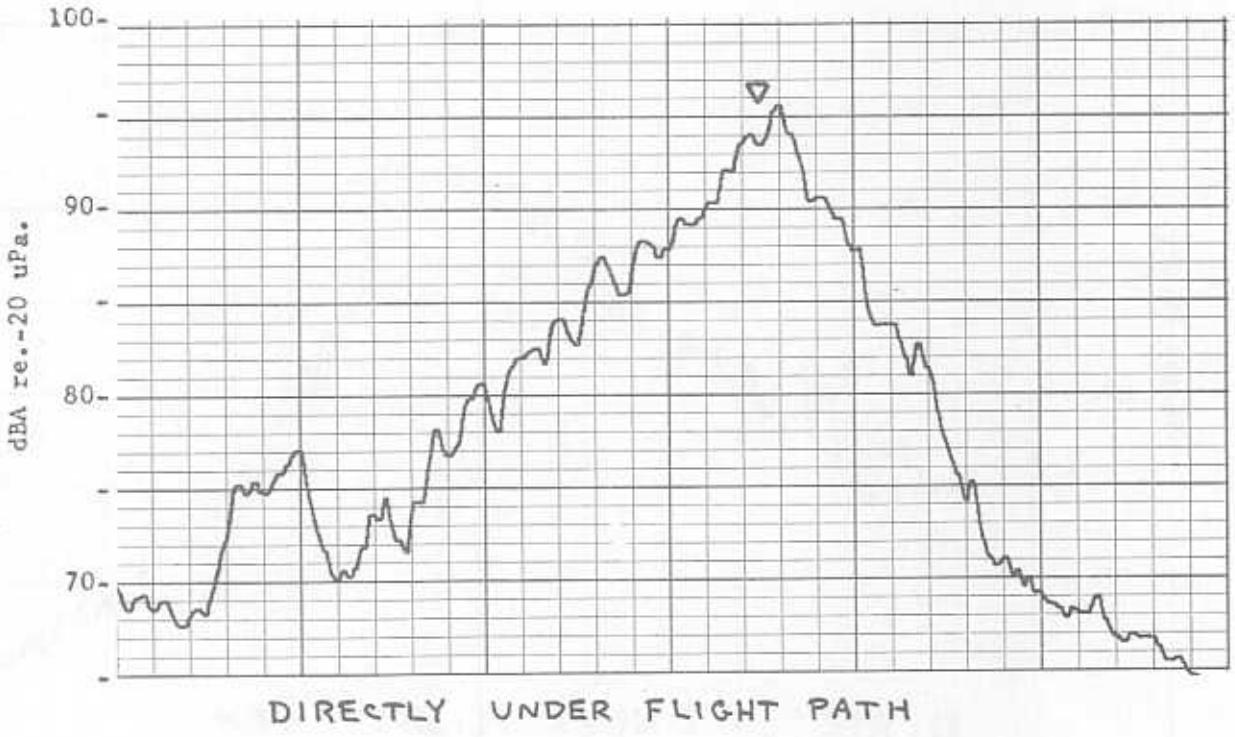
DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
6° APPROACH

RUN 13

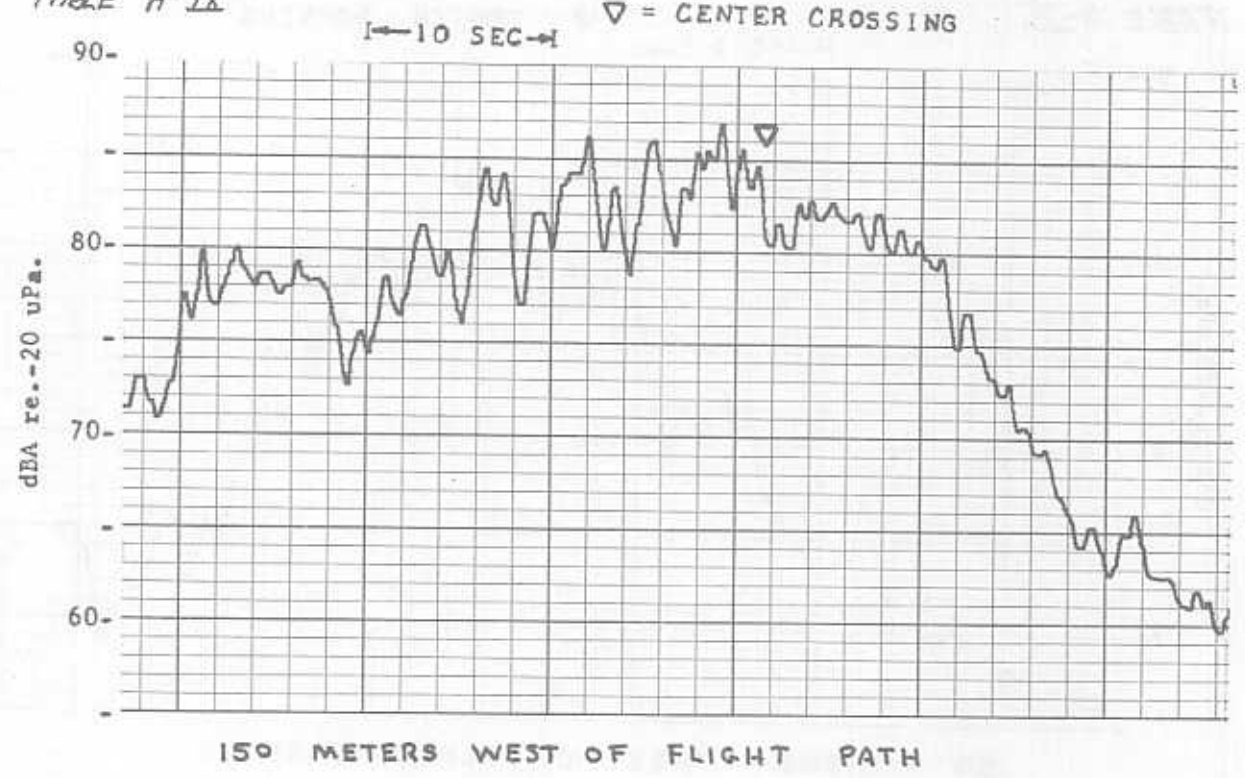
TABLE H-IX

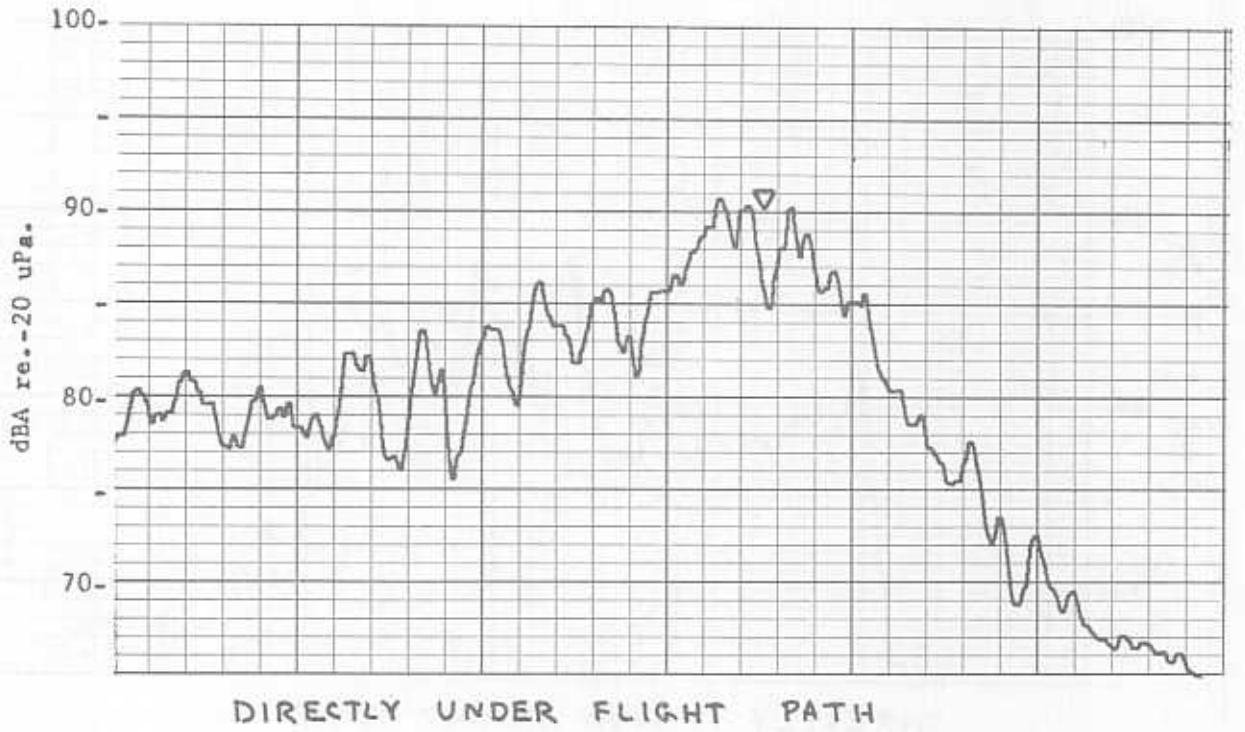




NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
9° APPROACH RUN 20

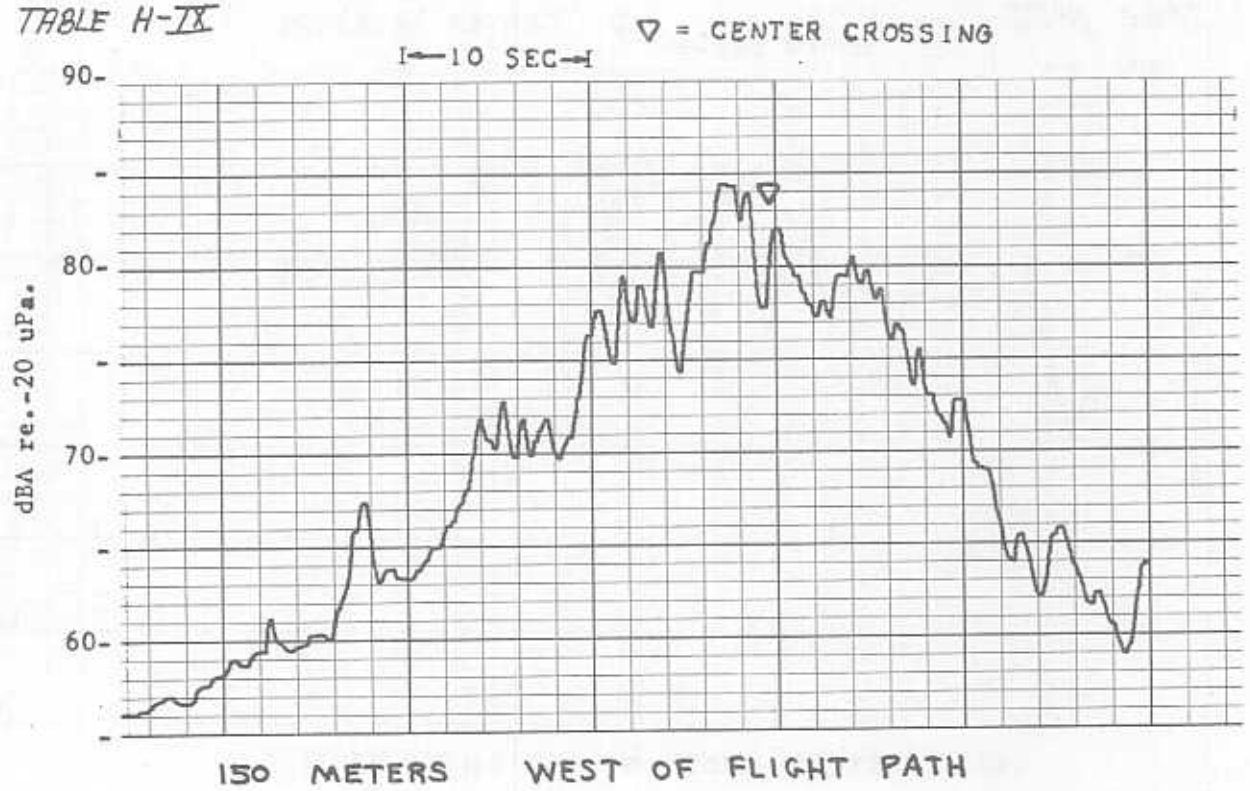
TABLE H-IX



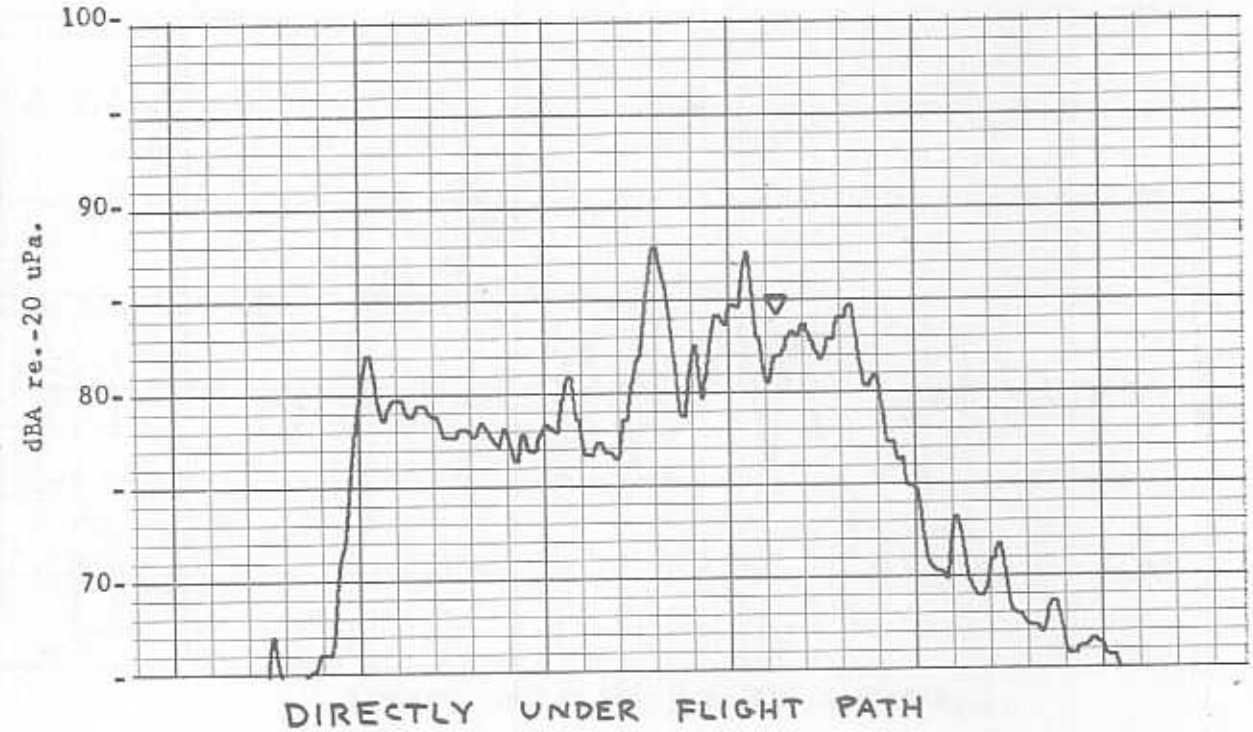


NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
LEVEL FLYOVER - 60 KTS RUN 18

TABLE H-IX



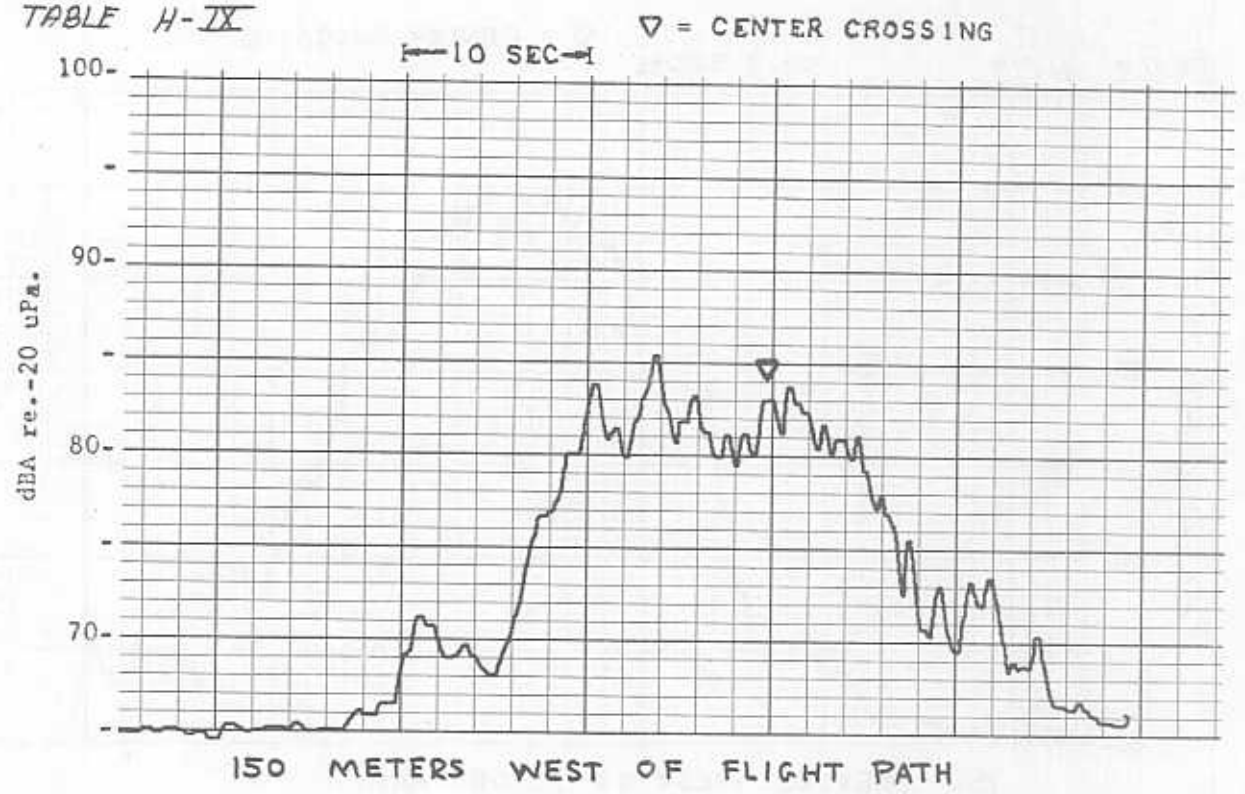
150 METERS WEST OF FLIGHT PATH

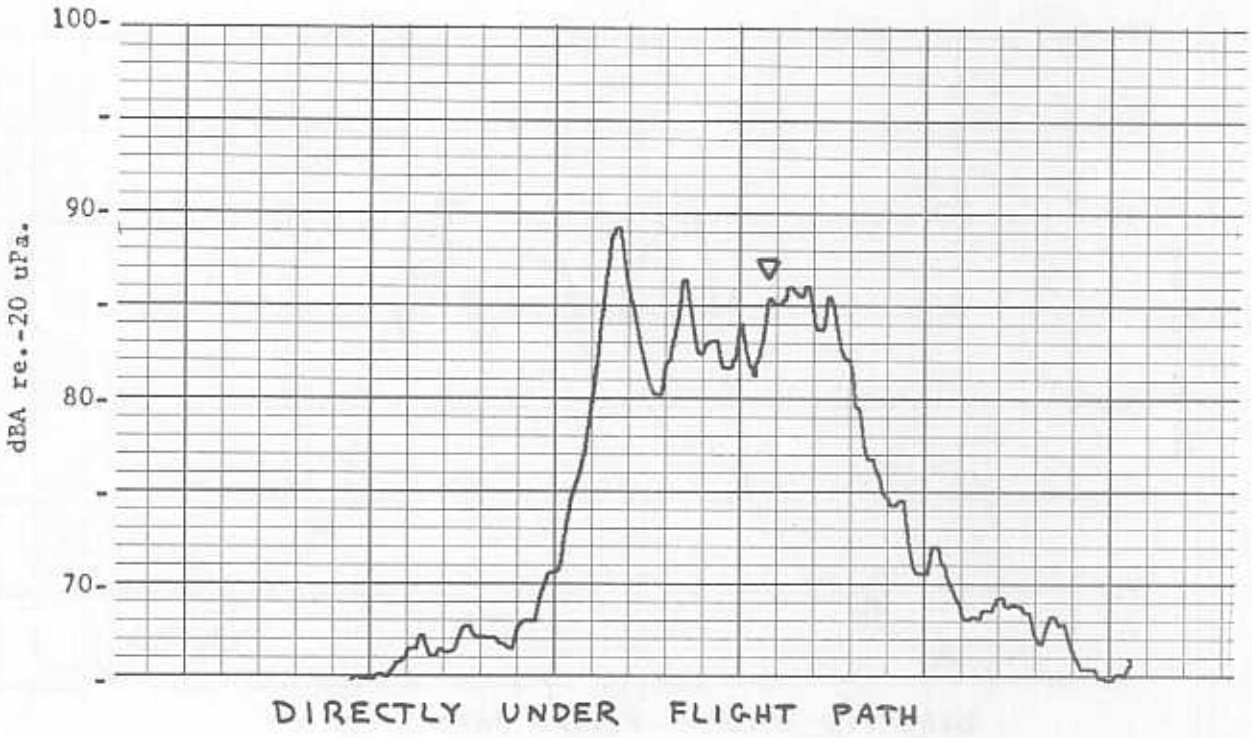


DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
LEVEL FLYOVER - 100 KTS RUN 22

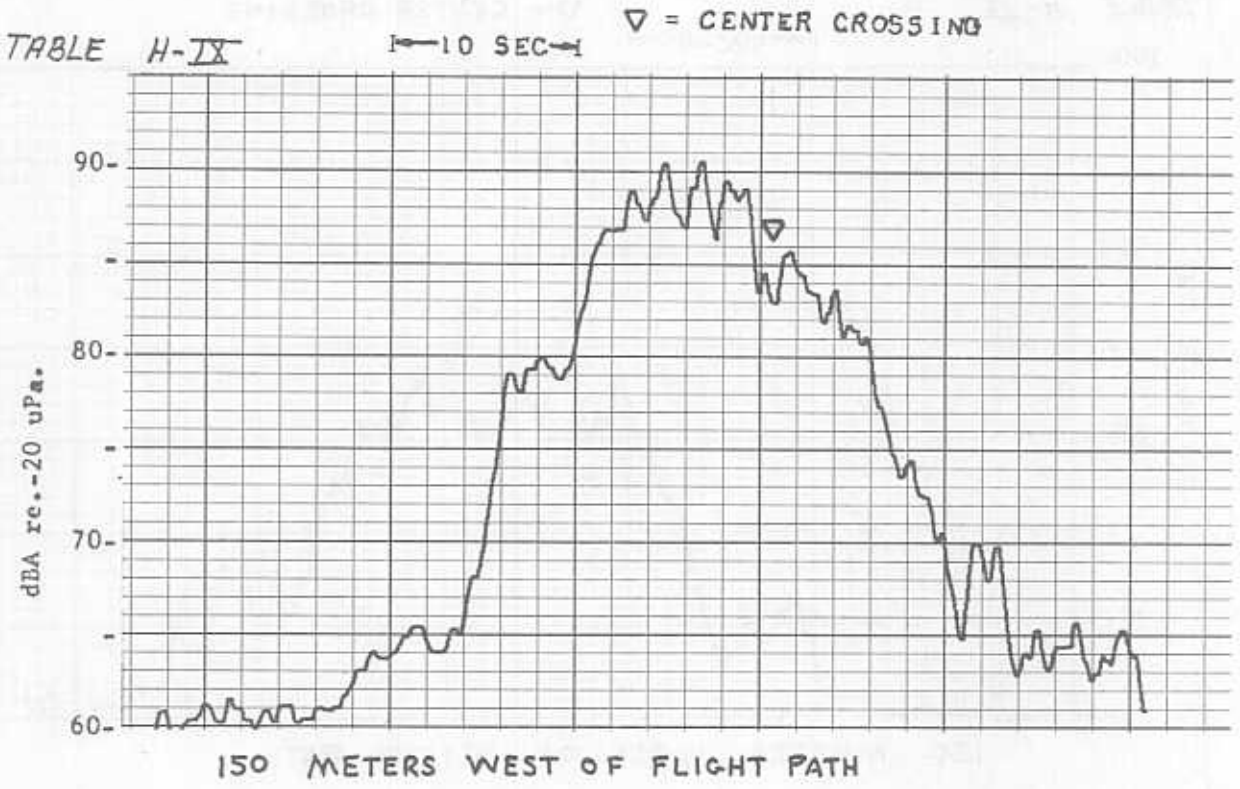
TABLE H-IX

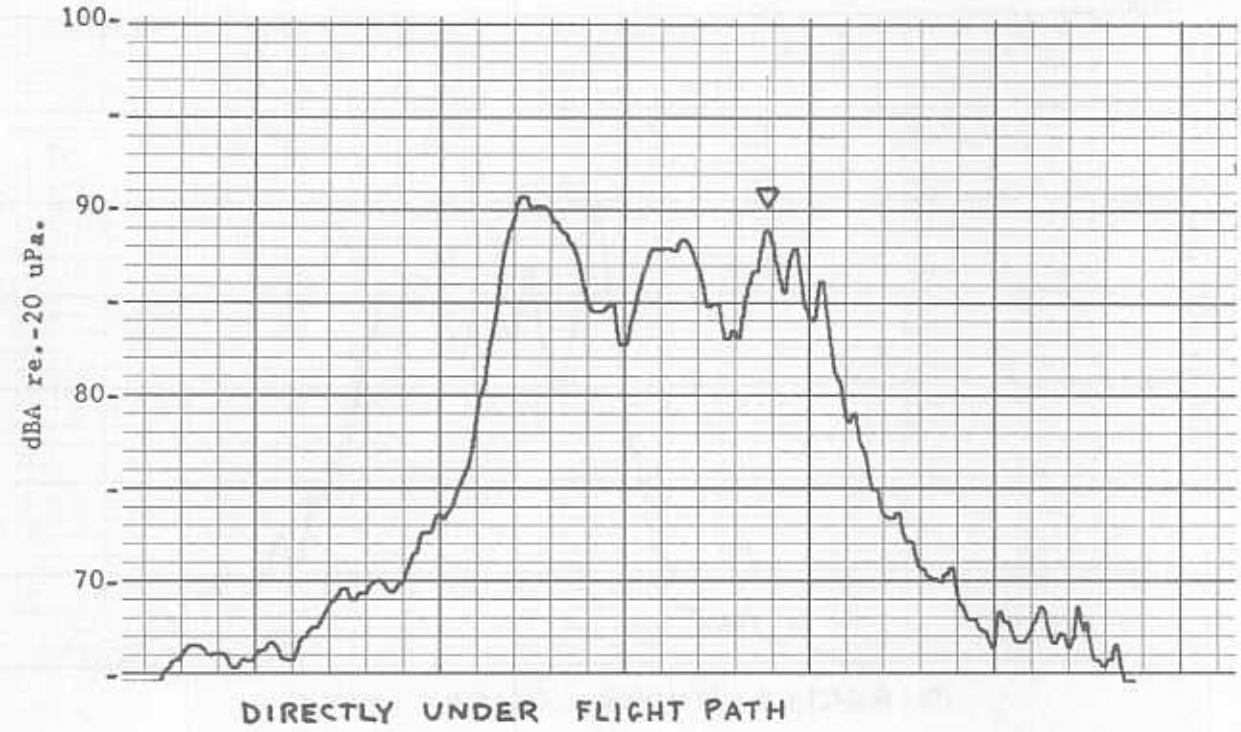




NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
LEVEL FLYOVER - 126 KTS RUN 30

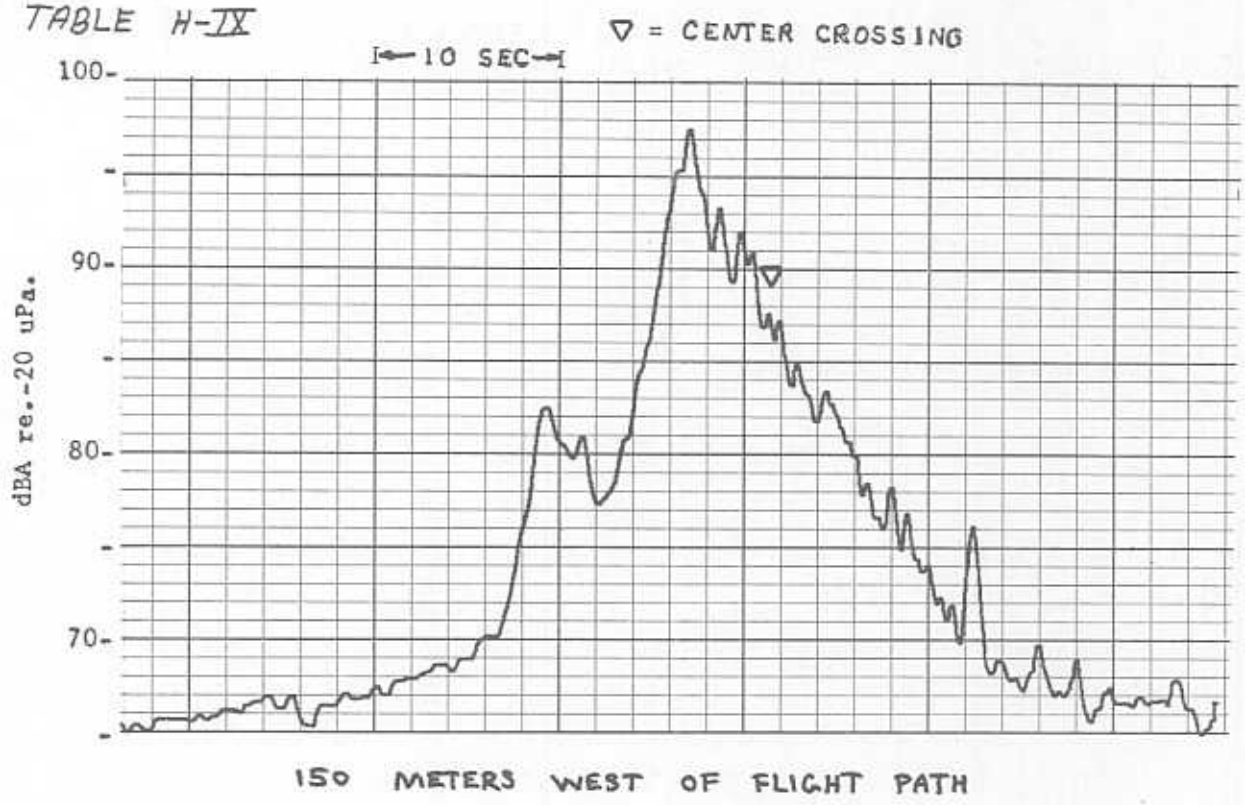
TABLE H-IX

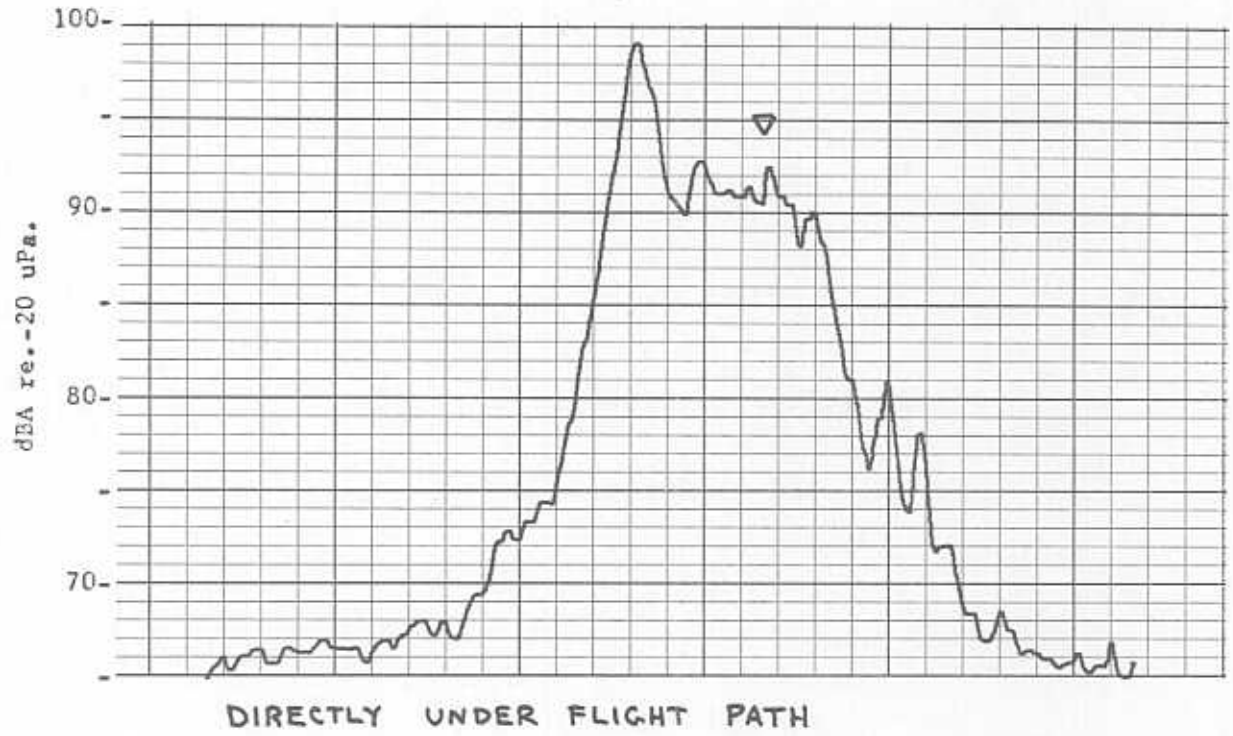




NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
LEVEL FLYOVER - 141 KTS RUN 24

TABLE H-IX





NOISE LEVEL TIME HISTORIES
VERTOL CH-47C HELICOPTER
LEVEL FLYOVER - 150 KTS RUN 28