

Nighttime SEL Noise Measurements Report

The Nighttime SEL Noise Measurements Report provides a summary of aircraft departure noise measurements of SEL (sound exposure level) that are equal to or greater than 80 dB (decibels). The data is being reported in this format to simplify the aircraft noise event review process by focusing on the most significant noise events and to the levels that may cause sleep disturbance for some residents in adjacent communities. All aircraft noise measurements between 10:00 p.m. and 6:00 a.m. are evaluated in this report. Supplementary tables 2 and 3 provide data for aircraft departure noise measurements based upon the runway used for departure. (Note: All community-based NMTs are included in the report with the exception of NMT 15, which is used for monitoring compliance with the aircraft engine engine maintenance run-up noise abatement program.)

Noise Monitor Terminal (NMT) Locations

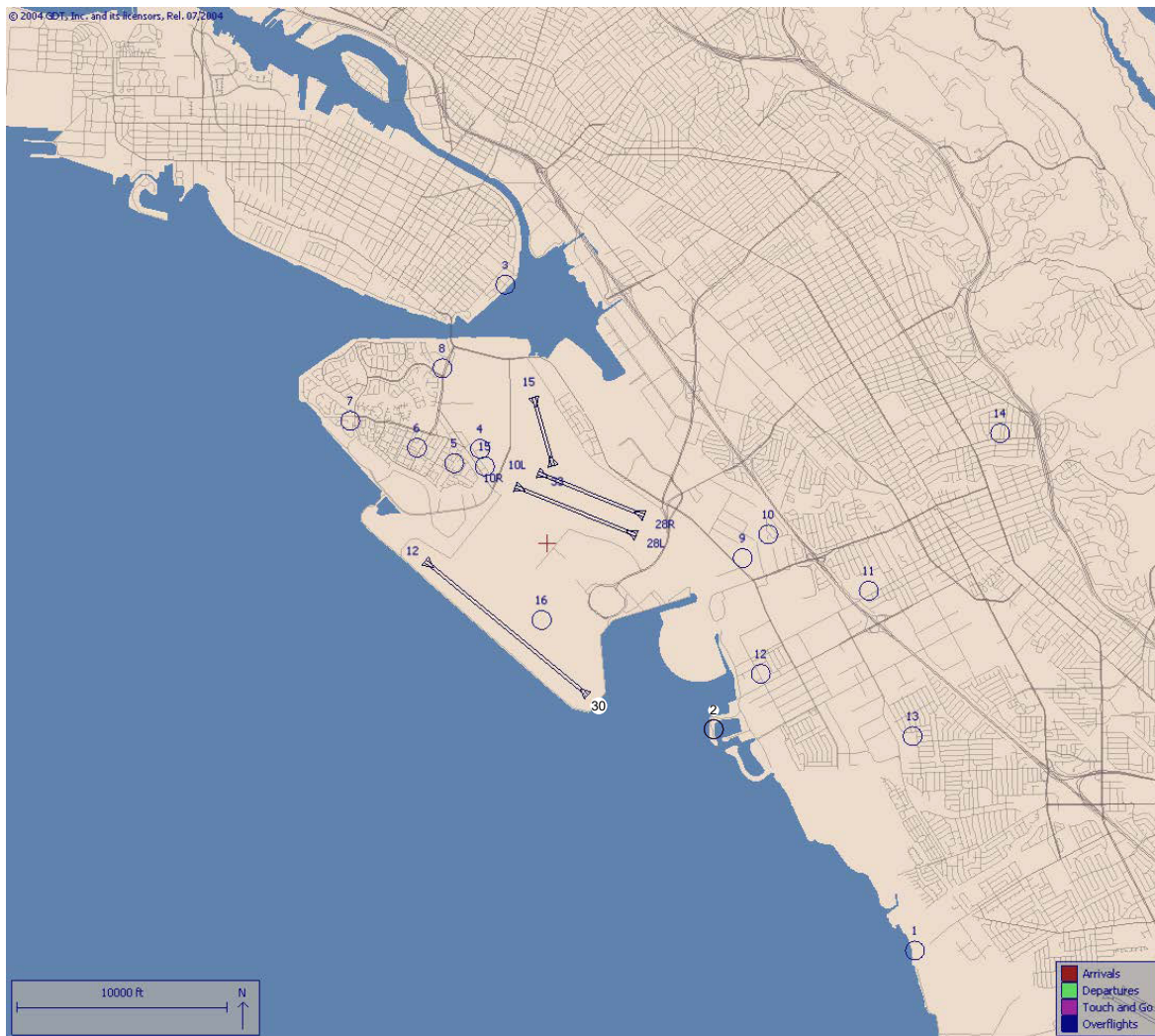


Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 499

Third Quarter 2011 (10:00 p.m. to 6:00 a.m.)

NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
1	1	0	0.0	0.0%	1	0.0	0.2%	0	0.0	0.0%	2
2	61	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	63
3	24	4	0.0	0.7%	1	0.0	0.2%	0	0.0	0.0%	29
4	63	44	0.5	7.8%	12	0.1	2.1%	10	0.1	1.8%	129
5	63	10	0.1	1.8%	3	0.0	0.5%	12	0.1	2.1%	88
6	15	5	0.1	0.9%	1	0.0	0.2%	9	0.1	1.6%	30
7	3	5	0.1	0.9%	7	0.1	1.2%	0	0.0	0.0%	15
8	78	21	0.2	3.7%	3	0.0	0.5%	1	0.0	0.2%	103
9	35	9	0.1	1.6%	3	0.0	0.5%	0	0.0	0.0%	47
10	19	3	0.0	0.5%	1	0.0	0.2%	0	0.0	0.0%	23
11	6	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	7
12	53	2	0.0	0.4%	1	0.0	0.2%	0	0.0	0.0%	56
13	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
14	11	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	11
All NMTs	434	106	1		33	0		32	0		605

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 296

Third Quarter 2011 (10:00 p.m. to 6:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
3	24	4	0.0	1.7%	1	0.0	0.4%	0	0.0	0.0%	29
4	63	44	0.5	18.4%	12	0.1	5.0%	10	0.1	4.2%	129
5	63	10	0.1	4.2%	3	0.0	1.3%	12	0.1	5.0%	88
6	15	5	0.1	2.1%	1	0.0	0.4%	9	0.1	3.8%	30
7	3	5	0.1	2.1%	7	0.1	2.9%	0	0.0	0.0%	15
8	78	21	0.2	8.8%	3	0.0	1.3%	1	0.0	0.4%	103
Total	246	89	1.0		27	0.3		32	0.4		394

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 203

Third Quarter 2011 (10:00 p.m. to 6:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
2	61	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	63
9	35	9	0.1	2.7%	3	0.0	0.9%	0	0.0	0.0%	47
10	19	3	0.0	0.9%	1	0.0	0.3%	0	0.0	0.0%	23
11	6	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	7
12	53	2	0.0	0.6%	1	0.0	0.3%	0	0.0	0.0%	56
13	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
14	11	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	11
Total	187	17	0.2		5	0.1		0	0.0		209