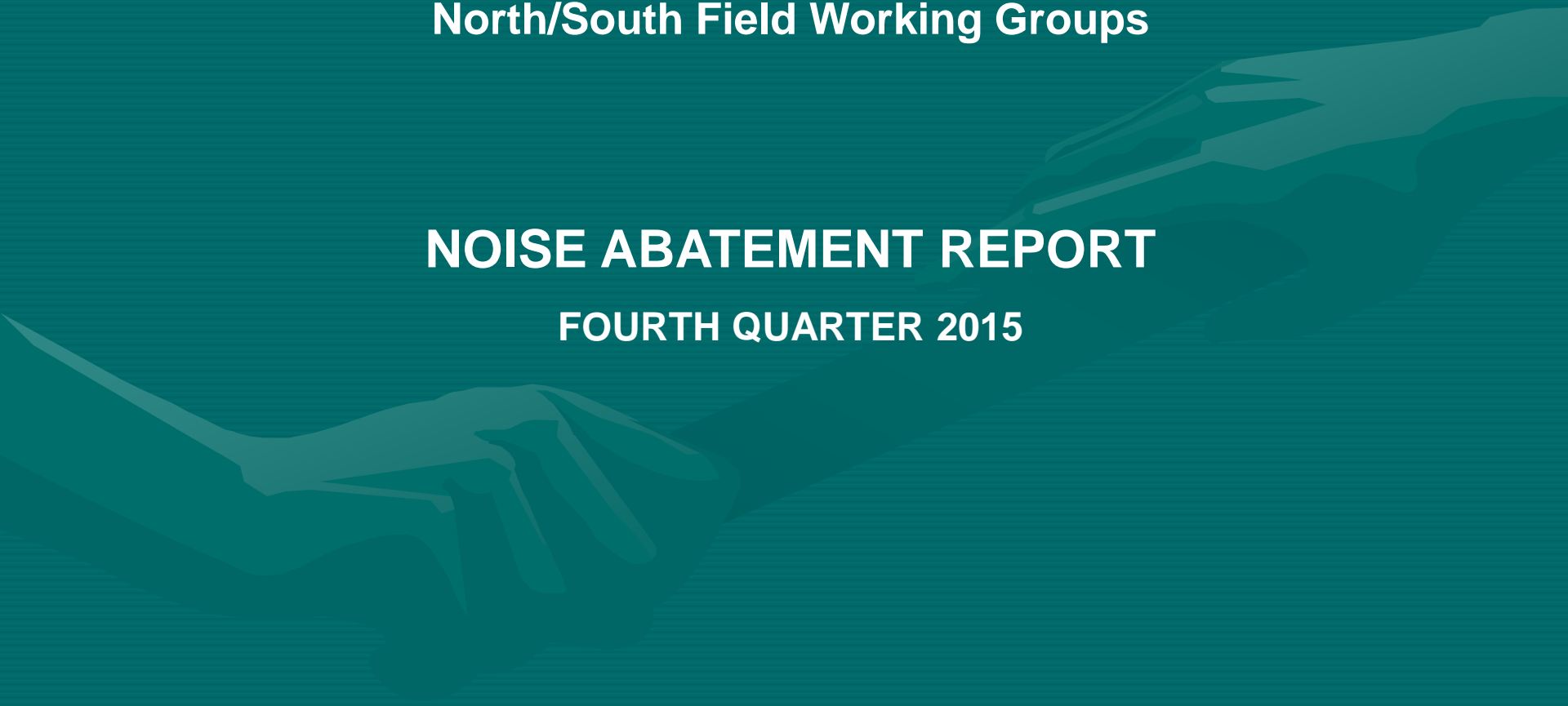


NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

FOURTH QUARTER 2015



Compliance Monitoring Quarterly Summary Comparison Fourth Quarter 2015				
	2014Q4		2015Q4	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	93%	7%	92%	8%
Total Airport-wide Corporate Jet Departures	2,645	186	2,424	202
Runway 10R/L Jet Landing Compliance	85%	15%	93%	7%
Total Southeast Plan Corporate Jet Landings	383	68	139	10
North Field VFR Departure Compliance	97%	3%	96%	4%
Total Runways 28R/L & 33 Departures	964	27	528	22
North Field Quiet Hours Compliance	81%	19%	51%	49%
Total North Field Quiet Hours Departures	194	37	88	85
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	14,322	1	16,532	11
Silent8 Night Departure Compliance	99%	1%	99%	1%
Total Runway 30 Night Turbojet Departures	2,531	30	3,181	40
Runway 12 Night Departure Compliance	65%	35%	75%	25%
Total Runway 12 Night Turbojet Departures	203	72	47	16
Runway 30 East Turn Departure Compliance	98%	2%	98%	2%
Total Runway 30 East Turn Departures	3,924	89	4,931	107
100 Degree Radial Turbojet Landing Compliance	87%	13%	92%	8%
Total 100 Degree Radial Turbojet Landings	2,161	282	2,338	216
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	14	0	9	0

Link to full report: http://flyquietoak.com/pages/reports/quarterly_noise_compliance.html

Operation Details
Beacon Code: 3271
AC Type: GLF3
Operation Type: Departure
Runway: 27R
Target Details
Date/Time: 4/2/2009 09:58:59

Runway 28R/L Jet Departure NAP

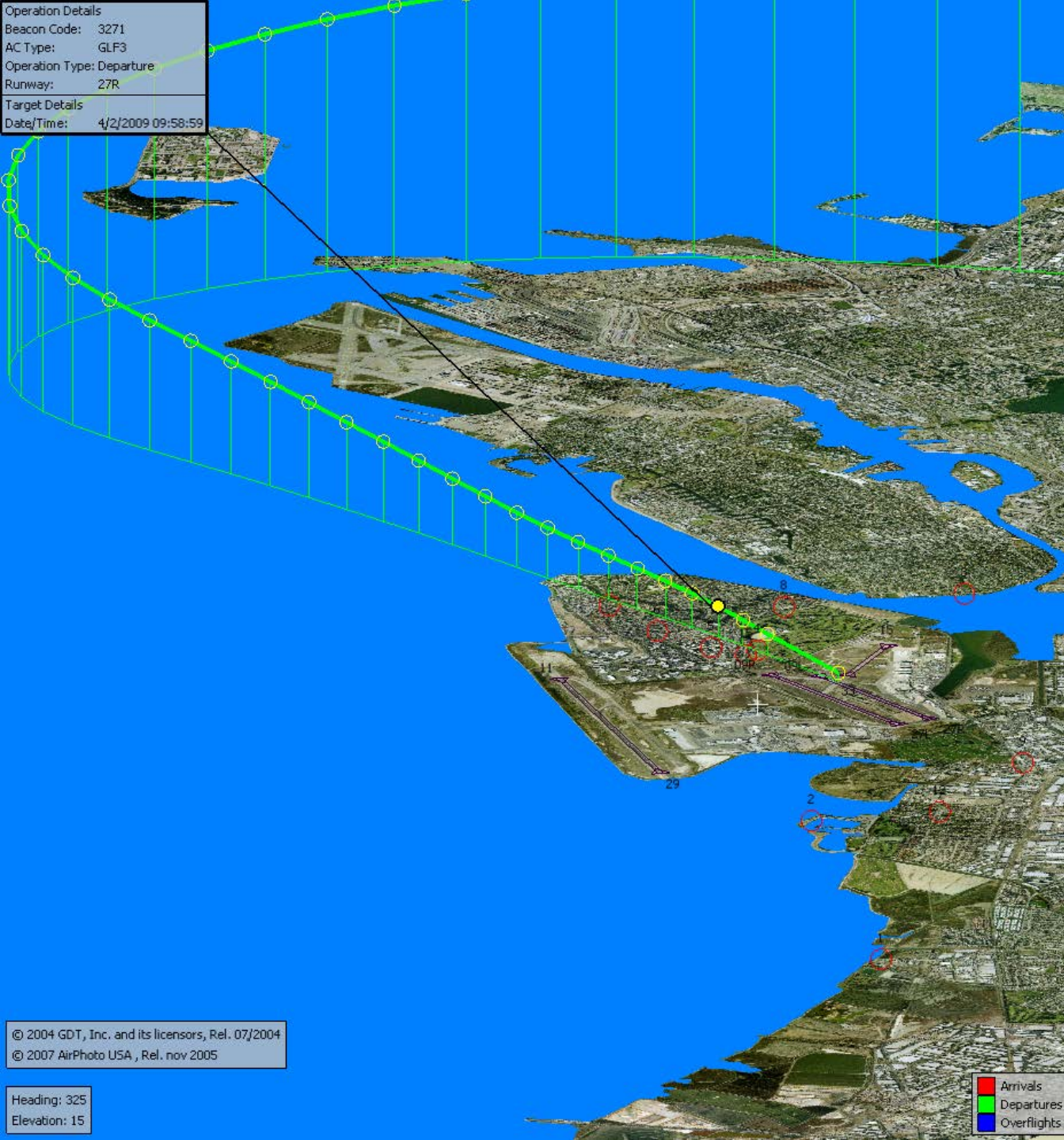
2015Q4
92% Compliance
(2,626 departures)

2014Q4
93% Compliance
(2,831 departures)

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Heading: 325
Elevation: 15

Arrivals
Departures
Overflights



Operation Details
Beacon Code: 1002
AC Type: BE40
Operation Type: Arrival
Runway: 09R

Target Details
Date/Time: 4/7/2009 12:09:00

Runway 10R/L Jet Landing NAP

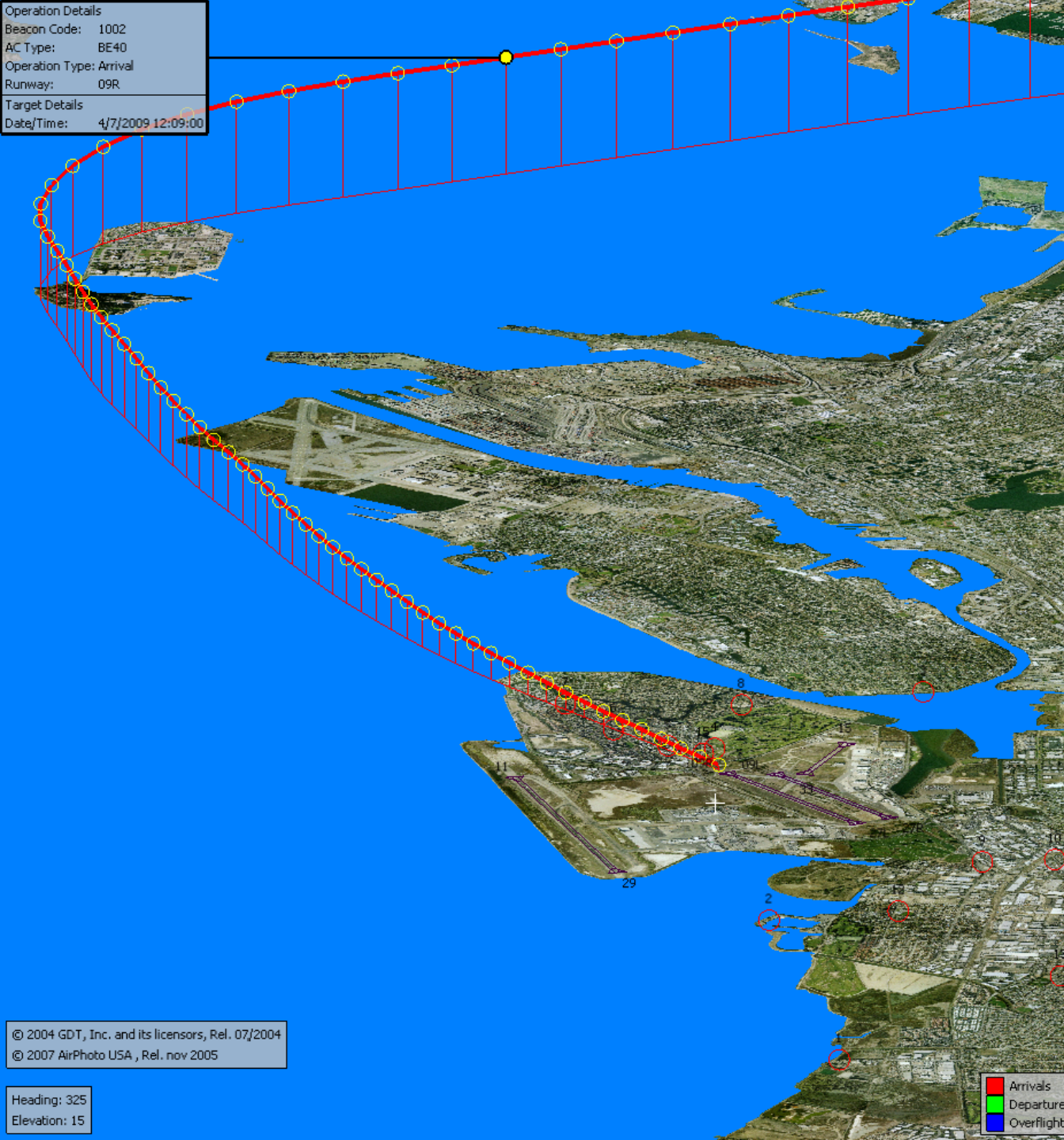
2015Q4
93% Compliance
(149 landings)

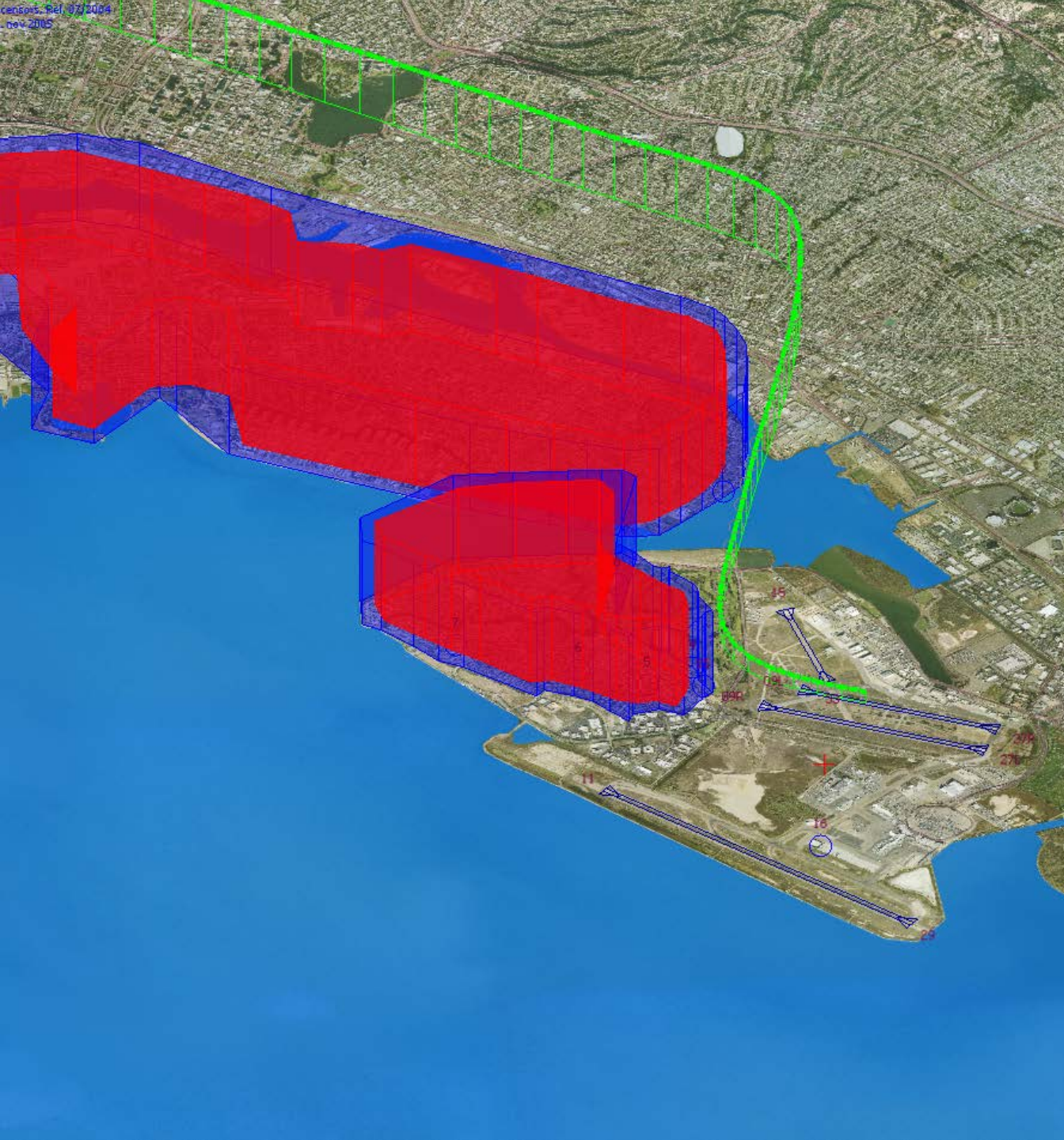
2014Q4
85% Compliance
(451 landings)

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© 2007 AirPhoto USA, Rel. nov 2005

Heading: 325
Elevation: 15

Arrivals
Departures
Overflights





VFR Aircraft Departure NAP

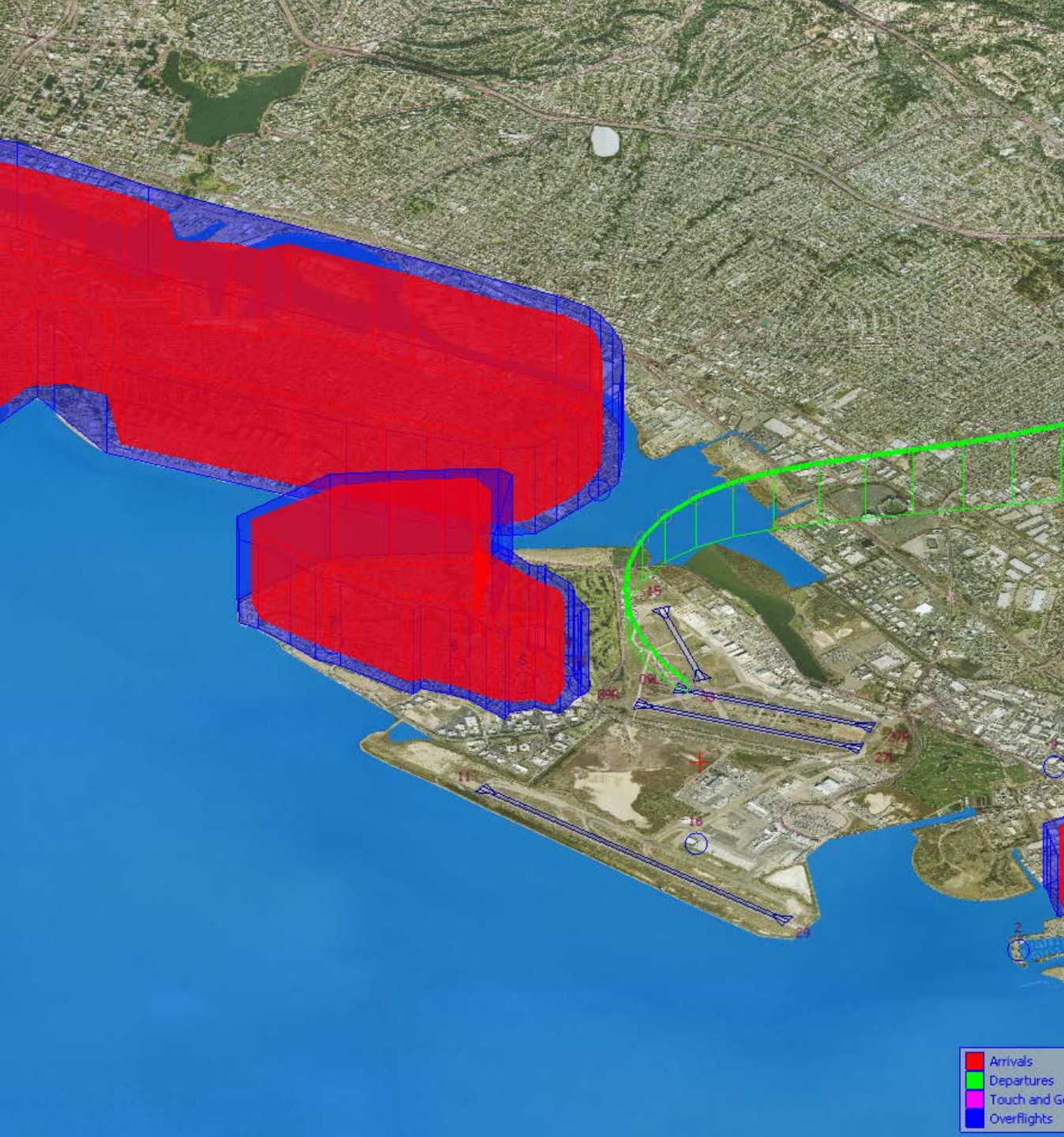
2015Q4
96% Compliance
(550 departures)

2014Q4
97% Compliance
(991 departures)

North Field Quiet Hours NAP

2015Q4
51% Compliance
(173 departures)

2014Q4
81% Compliance
(231 departures)



Runway 30 Bay Farm Right Turn NAP

2015Q4
100% Compliance
(16,543 departures)

2014Q4
100% Compliance
(14,323 departures)

Silent8 Night Departure NAP

2015Q4
99% Compliance
(3,221 departures)

2014Q4
99% Compliance
(2,561 departures)

Runway 12 Night Departure NAP

2015Q4
75% Compliance
(63 departures)

2014Q4
65% Compliance
(275 departures)



Operation Details	
Aircraft ID:	SWA771
Tail Number:	
Beacon Code:	1156
AC Type:	B737
Operation Type:	Departure
Runway:	29
Origin:	OAK
Destination:	BOI
Altitude (ft):	4833
Ground Speed (kt):	231.3
Date/Time:	11/28/2011 10:37:46

Runway 30 East Turn NAP

2015Q4
98% Compliance
(5,038 departures)

2014Q4
98% Compliance
(4,013 departures)

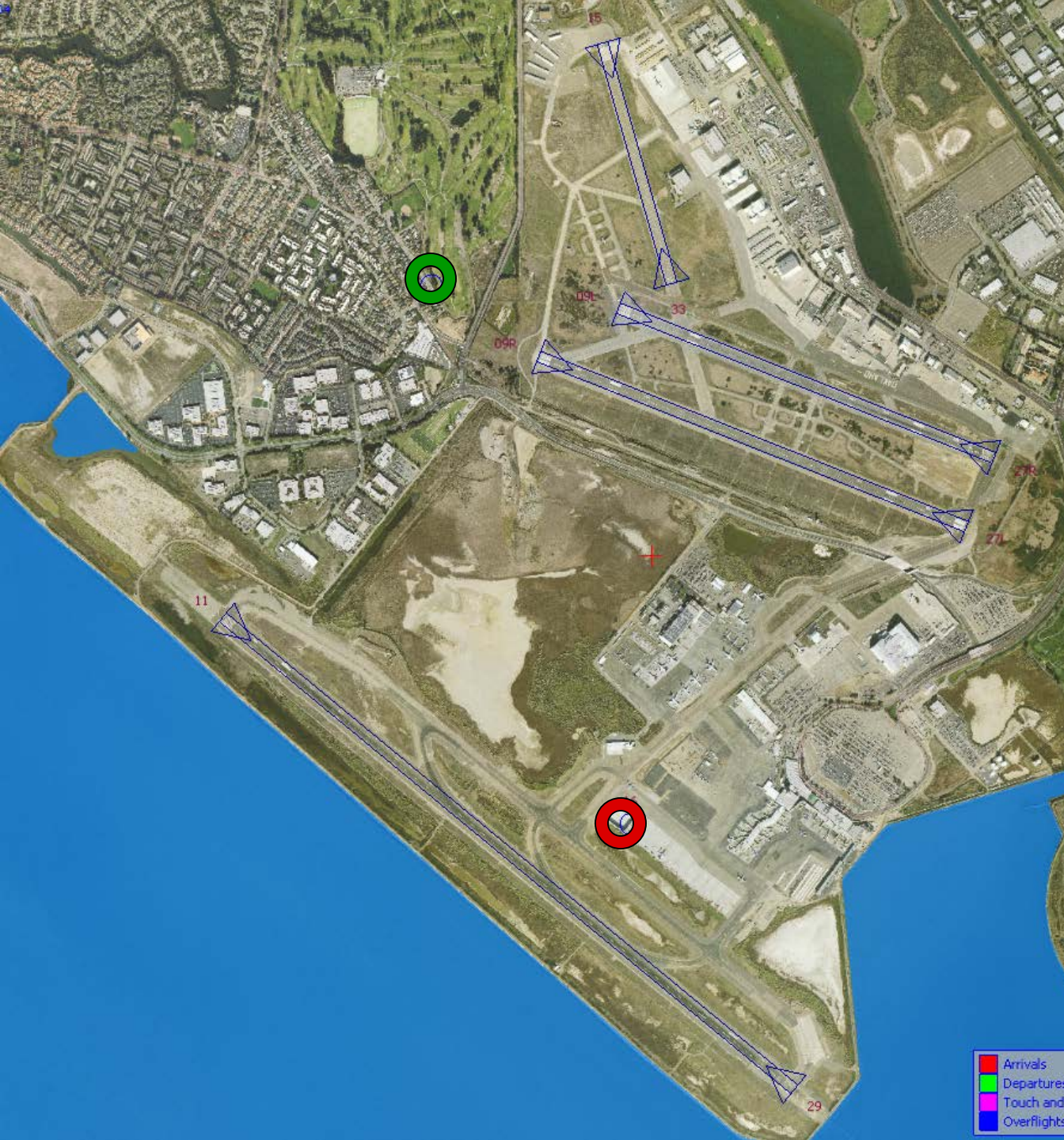


Operation Details	
Aircraft ID:	SWA273
Tail Number:	
Beacon Code:	6675
AC Type:	B737
Operation Type:	Arrival
Runway:	29
Origin:	GEG
Destination:	OAK
Altitude (ft):	3251
Ground Speed (kt):	159.4
Date/Time:	4/18/2012 19:58:23

**100 Degree Radial
At 3,000 ft. NAP**

**2015Q4
92% Compliance
(2,338 landings)**

**2014Q4
87% Compliance
(2,161 landings)**



Engine Run-up NAP

2015Q4
100% Compliance
(9 engine run-ups)*

2014Q4
100% Compliance
(14 engine run-ups)

***Only above idle-power run-ups recorded.**



Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 173

Fourth Quarter 2015 (10:00 p.m. to 7:00 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	2	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	3
2	14	1	0.0	0.2%	1	0.0	0.2%	0	0.0	0.0%	16
3	44	8	0.1	1.4%	1	0.0	0.2%	1	0.0	0.2%	54
4	66	41	0.5	7.2%	22	0.2	3.9%	3	0.0	0.5%	132
5	63	34	0.4	6.0%	14	0.2	2.5%	8	0.1	1.4%	119
6	41	9	0.1	1.6%	15	0.2	2.6%	3	0.0	0.5%	68
7	25	12	0.1	2.1%	3	0.0	0.5%	0	0.0	0.0%	40
8	36	17	0.2	3.0%	1	0.0	0.2%	0	0.0	0.0%	54
9	11	5	0.1	0.9%	5	0.1	0.9%	2	0.0	0.4%	23
10	38	11	0.1	1.9%	3	0.0	0.5%	1	0.0	0.2%	53
11	1	7	0.1	1.2%	1	0.0	0.2%	0	0.0	0.0%	9
12	16	2	0.0	0.4%	1	0.0	0.2%	0	0.0	0.0%	19
13	9	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	10
14	5	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	7
All NMTs	371	151	2	0	67	1	0	18	0	0	607

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 149

Fourth Quarter 2015 (10:00 p.m. to 7:00 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	44	8	0.1	3.3%	1	0.0	0.4%	1	0.0	0.4%	54
4	66	41	0.5	17.2%	22	0.2	9.2%	3	0.0	1.3%	132
5	63	34	0.4	14.2%	14	0.2	5.9%	8	0.1	3.3%	119
6	41	9	0.1	3.8%	15	0.2	6.3%	3	0.0	1.3%	68
7	25	12	0.1	5.0%	3	0.0	1.3%	0	0.0	0.0%	40
8	36	17	0.2	7.1%	1	0.0	0.4%	0	0.0	0.0%	54
Total	275	121	1.3		56	0.6		15	0.2		467

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 24

Fourth Quarter 2015 (10:00 p.m. to 7:00 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	14	1	0.0	0.3%	1	0.0	0.3%	0	0.0	0.0%	16
9	11	5	0.1	1.5%	5	0.1	1.5%	2	0.0	0.6%	23
10	38	11	0.1	3.4%	3	0.0	0.9%	1	0.0	0.3%	53
11	1	7	0.1	2.1%	1	0.0	0.3%	0	0.0	0.0%	9
12	16	2	0.0	0.6%	1	0.0	0.3%	0	0.0	0.0%	19
13	9	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	10
14	5	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	7
Total	94	29	0.3		11	0.1		3	0.0		137

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Fourth Quarter 2015, NMT 2

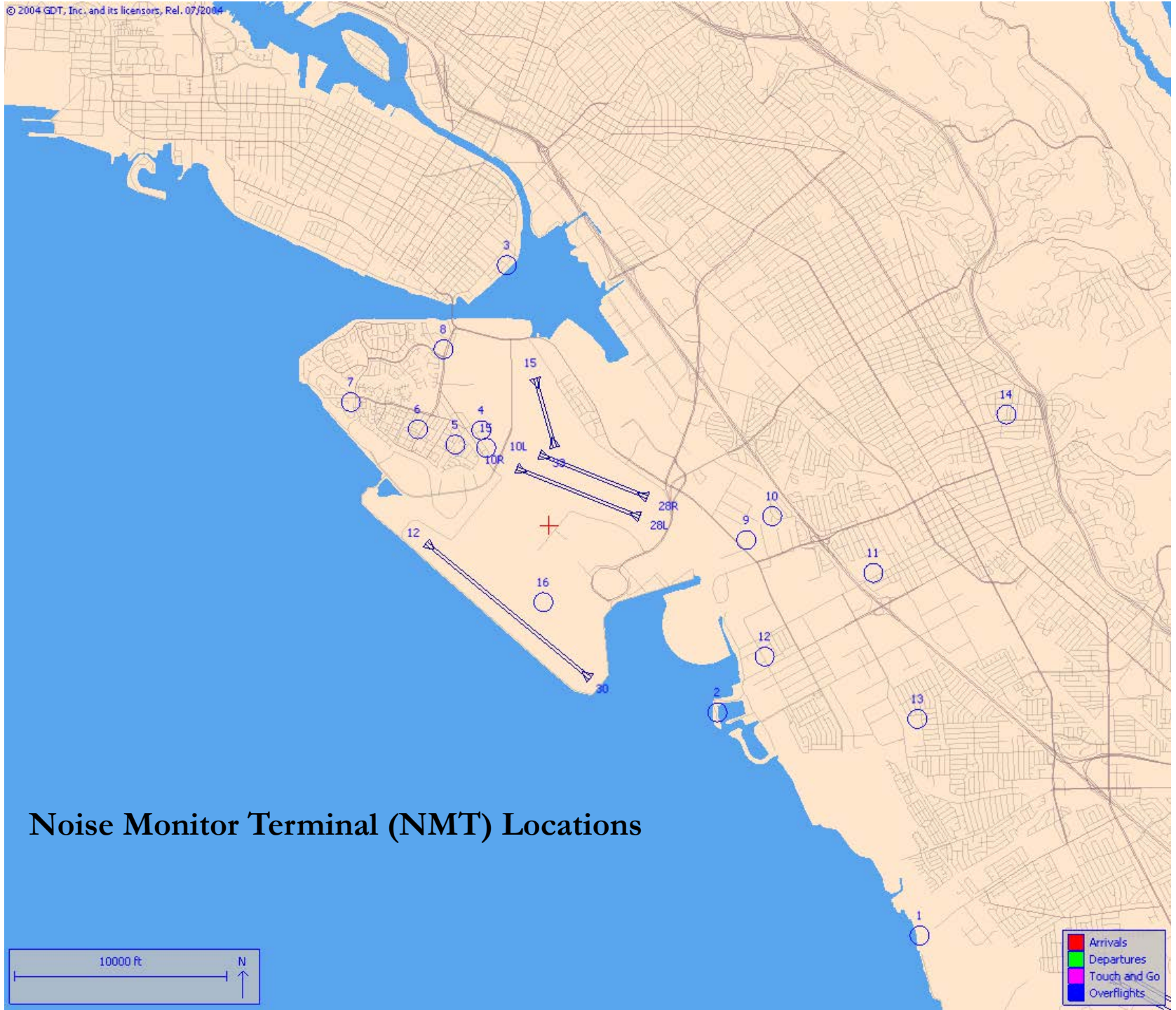
	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
Baseline (November 2002) [A]					
B727	104	101	76	87	44
DC10/MD10	87	32	69	78	22
MD11	32	13	70	79	24
A306	67	21	67	77	25
Fourth Quarter 2015 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	70	23	38	76	19
MD11	224	75	152	77	23
A306	151	50	75	74	17
B757	142	47	63	75	16
B777	0	-	-	-	-
Difference [A-B]					
B727		-104	-101	-76	-44
DC10/MD10		-64	6	-3	-3
MD11		43	139	-3	-1
A306		-17	54	-2	-8

(a) For the current calendar quarter reported, ANOMS does not correlate all departures to their respective noise events; that is most, but not all, aircraft back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.
Source: ANOMS (Airport Noise and Operations Monitoring System)

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Fourth Quarter 2014, NMT 2

	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
Baseline (November 2002) [A]					
B727	104	101	76	87	44
DC10/MD10	87	32	69	78	22
MD11	32	13	70	79	24
A306	67	21	67	77	25
Fourth Quarter 2014 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	114	38	47	77	20
MD11	172	57	95	77	19
A306	129	43	53	74	15
B757	155	52	57	75	14
B777	0	-	-	-	-
Difference [A-B]					
B727		-104	-101	-87	-44
DC10/MD10		-49	15	-1	-2
MD11		25	82	-2	-5
A306		-24	32	-3	-10

(a) For the current calendar quarter reported, ANOMS does not correlate all departures to their respective noise events; that is most, but not all, aircraft back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.
Source: ANOMS (Airport Noise and Operations Monitoring System)



Noise Monitor Terminal (NMT) Locations