



# **LAX Community Noise Roundtable**

## **LAX 14 CFR Part 150 Noise Exposure Map Update**

Project Briefing #3

May 13, 2015



## Project Overview

- **Los Angeles World Airports (LAWA) initiated an update of the Title 14 Code of Federal Regulations (CFR) Part 150 Noise Exposure Map (NEM) report for LAX in February 2014**
- **The goal is to submit updated noise exposure maps for LAX to the Federal Aviation Administration (FAA) in 2015**
- **LAWA is updating the LAX NEMs to ensure continued eligibility for sound insulation program funding**

## Project Overview

- **LAWA developed noise exposure maps for LAX in 1981 as part of an Airport Noise and Land Use Compatibility (ANCLUC) Study**
- **The FAA typically uses the airport's future year noise exposure map to determine eligibility for federal funding of noise mitigation programs (e.g., sound insulation)**
- **The FAA is currently relying on the LAX Master Plan Alternative D noise contours for funding current LAX sound insulation programs. The Alternative D contours represent the aircraft noise exposure in terms of the Community Noise Equivalent Level (CNEL) for calendar year 2015 aircraft operations at LAX**

## Project Overview

- **The LAX NEM report must be prepared in accordance with the guidance provided in 14 CFR Part 150**
- **14 CFR Part 150 includes detailed guidance and a checklist of the items that must be included in the FAR Part 150 NEM Report**
- **For example, the NEM Report must include aircraft noise exposure contours for the year of submission and a future year (typically five years in the future)**
  - **The Alta Environmental Team has produced NEMs for 2015 and 2020**

## Noise Modeling Assumptions

- **Existing (2015) Conditions NEM**
  - **Based on 2013 annual operations – 614,917**
  - **Aircraft fleet mix based on ANOMS data for Calendar Year (CY) 2013**
  - **Runway use based on ANOMS data for CY 2013**
  - **Time of day based on ANOMS data for CY 2013**
  - **Flight tracks and flight track usage based on ANOMS data for CY 2013**

## Noise Modeling Assumptions

- **Future (2020) Conditions NEM**
  - **Terminal Area Forecast – 705,254 annual operations in 2020**
  - **Aircraft fleet mix updated based on information contained in approved environmental studies**
  - **Runway use, time of day, and flight tracks are assumed to be similar to 2015**
  - **Accounts for the Runway Safety Area improvements – Runways 7L-25R and 6R-24L**

## 2015 Aircraft Fleet Mix

TABLE 4-2  
ANNUAL AVERAGE DAY OPERATIONS BY INM AIRCRAFT TYPE – 2015  
LOS ANGELES INTERNATIONAL AIRPORT

INM Aircraft Type	Aircraft Category	Arrivals	Departures	Total
1900D	Non-Jet Aircraft	8.62	8.62	17.24
727EM2	Large Narrow-Body Aircraft	0.22	0.22	0.43
737300	Small Narrow-Body Aircraft	25.34	25.34	50.67
737400	Small Narrow-Body Aircraft	7.11	7.11	14.23
737500	Small Narrow-Body Aircraft	0.07	0.07	0.14
737700	Small Narrow-Body Aircraft	84.74	84.74	169.48
737800	Small Narrow-Body Aircraft	122.50	122.50	245.00
747200	Large Wide-Body Aircraft	0.77	0.77	1.53
747400	Large Wide-Body Aircraft	19.50	19.50	39.01
7478	New Large Aircraft	3.53	3.53	7.05
757300	Large Narrow-Body Aircraft	14.27	14.27	28.55
757PW	Large Narrow-Body Aircraft	52.17	52.17	104.34
757RR	Large Narrow-Body Aircraft	22.14	22.14	44.28
767300	Small Wide-Body Aircraft	23.06	23.06	46.13
767400	Small Wide-Body Aircraft	0.22	0.22	0.44
767CF6	Small Wide-Body Aircraft	10.18	10.18	20.37
777200	Large Wide-Body Aircraft	12.51	12.51	25.02
777300	Large Wide-Body Aircraft	0.02	0.02	0.03
7773ER	Large Wide-Body Aircraft	23.26	23.26	46.52
787R	Large Narrow-Body Aircraft	1.61	1.61	3.22
A300-622R	Small Wide-Body Aircraft	2.47	2.47	4.93
A300B4-203	Small Wide-Body Aircraft	1.56	1.56	3.11
A310-304	Small Wide-Body Aircraft	0.06	0.06	0.12
A319-131	Small Narrow-Body Aircraft	36.26	36.26	72.53
A320-211	Small Narrow-Body Aircraft	42.00	42.00	83.99
A320-232	Small Narrow-Body Aircraft	31.60	31.60	63.20
A321-232	Small Narrow-Body Aircraft	15.12	15.12	30.24
A330-301	Large Wide-Body Aircraft	1.35	1.34	2.69
A330-343	Large Wide-Body Aircraft	3.54	3.54	7.08
A340-211	Large Wide-Body Aircraft	3.67	3.67	7.34
A340-642	Large Wide-Body Aircraft	3.55	3.55	7.09
A380-841	New Large Aircraft	4.17	4.17	8.33
A380-861	New Large Aircraft	2.29	2.29	4.58
BEC58P	Non-Jet Aircraft	0.27	0.27	0.53
C17	Non-Jet Aircraft	0.03	0.03	0.07
CSA	Non-Jet Aircraft	0.01	0.01	0.03
CIT3	Small Jet Aircraft	0.13	0.13	0.26
CL600	Small Jet Aircraft	3.82	3.82	7.63
CL601	Small Jet Aircraft	66.84	66.84	133.69
CNA172	Non-Jet Aircraft	0.04	0.04	0.08
CNA182	Non-Jet Aircraft	0.01	0.01	0.02
CNA206	Non-Jet Aircraft	0.03	0.03	0.07
CNA208	Non-Jet Aircraft	0.53	0.53	1.06
CNA20T	Non-Jet Aircraft	0.01	0.01	0.02
CNA441	Non-Jet Aircraft	0.88	0.88	1.77
CNA500	Small Jet Aircraft	0.36	0.36	0.71

TABLE 4-2 (Continued)  
ANNUAL AVERAGE DAY OPERATIONS BY INM AIRCRAFT TYPE – 2015  
LOS ANGELES INTERNATIONAL AIRPORT

INM Aircraft Type	Aircraft Category	Arrivals	Departures	Total
CNA510	Small Jet Aircraft	0.74	0.74	1.49
CNA525C	Small Jet Aircraft	0.71	0.71	1.43
CNA55B	Small Jet Aircraft	0.52	0.52	1.04
CNA560E	Small Jet Aircraft	0.24	0.24	0.47
CNA560XL	Small Jet Aircraft	1.23	1.23	2.45
CNA680	Small Jet Aircraft	0.63	0.63	1.26
CNA750	Small Jet Aircraft	1.97	1.97	3.94
CRJ9-ER	Small Jet Aircraft	79.41	79.41	158.83
CVR580	Non-Jet Aircraft	0.61	0.61	1.23
DC1010	Large Wide-Body Aircraft	3.84	3.84	7.29
DC909	Small Narrow-Body Aircraft	0.03	0.03	0.05
DHC6	Non-Jet Aircraft	0.06	0.06	0.13
DHC830	Non-Jet Aircraft	8.72	8.72	17.44
DO328	Non-Jet Aircraft	0.03	0.03	0.05
ECLIPSE500	Small Jet Aircraft	0.04	0.04	0.08
EMB120	Non-Jet Aircraft	47.91	47.91	95.81
EMB145	Small Jet Aircraft	1.46	1.46	2.92
EMB14L	Small Jet Aircraft	0.20	0.20	0.40
EMB170	Small Jet Aircraft	4.84	4.84	9.67
EMB190	Small Jet Aircraft	5.64	5.64	11.27
F10062	Small Jet Aircraft	1.12	1.12	2.25
FAL20	Small Jet Aircraft	0.09	0.09	0.17
GASEPV	Non-Jet Aircraft	0.11	0.11	0.21
Gil	Small Jet Aircraft	0.12	0.12	0.24
GIIB	Small Jet Aircraft	0.53	0.53	1.06
GIV	Small Jet Aircraft	3.48	3.48	6.97
GV	Small Jet Aircraft	3.40	3.40	6.81
IA1125	Small Jet Aircraft	0.28	0.28	0.56
LEAR25	Small Jet Aircraft	0.08	0.08	0.16
LEAR35	Small Jet Aircraft	3.27	3.27	6.54
MD11GE	Large Wide-Body Aircraft	4.51	4.51	9.03
MD11PW	Large Wide-Body Aircraft	1.69	1.69	3.38
MD81	Small Narrow-Body Aircraft	0.03	0.03	0.07
MD82	Small Narrow-Body Aircraft	2.69	2.69	5.37
MD83	Small Narrow-Body Aircraft	5.07	5.07	10.14
MD9025	Small Narrow-Body Aircraft	0.02	0.02	0.03
MU3001	Small Jet Aircraft	1.17	1.17	2.34
PA28	Non-Jet Aircraft	0.02	0.02	0.05
PA31	Non-Jet Aircraft	0.02	0.02	0.03
PA42	Non-Jet Aircraft	0.02	0.02	0.04
SA365N	Helicopter	3.34	3.34	6.67
SD330	Non-Jet Aircraft	0.26	0.26	0.52
<b>All Aircraft</b>		<b>842.35</b>	<b>842.35</b>	<b>1,684.70</b>

NOTE: Values may not sum to totals shown due to rounding.  
SOURCE: ESA Airports, October 2014.

## 2020 Aircraft Fleet Mix

TABLE 4-3  
ANNUAL AVERAGE DAY OPERATIONS BY INM AIRCRAFT TYPE – 2020  
LOS ANGELES INTERNATIONAL AIRPORT

INM Aircraft Type	Aircraft Category	Arrivals	Departures	Total
1900D	Non-Jet Aircraft	9.46	9.46	18.91
737700	Small Narrow-Body Aircraft	136.81	136.81	273.63
737800	Small Narrow-Body Aircraft	141.71	141.71	283.41
747400	Large Wide-Body Aircraft	17.10	17.10	34.19
7478	New Large Aircraft	4.08	4.08	8.16
757300	Large Narrow-Body Aircraft	16.51	16.51	33.02
757PW	Large Narrow-Body Aircraft	60.62	60.62	121.24
757RR	Large Narrow-Body Aircraft	25.65	25.65	51.30
767300	Small Wide-Body Aircraft	31.55	31.55	63.11
767400	Small Wide-Body Aircraft	0.25	0.25	0.51
767CF6	Small Wide-Body Aircraft	11.78	11.78	23.56
777200	Large Wide-Body Aircraft	26.22	26.22	52.43
777300	Large Wide-Body Aircraft	0.02	0.02	0.04
7773ER	Large Wide-Body Aircraft	26.90	26.90	53.81
7878R	Large Narrow-Body Aircraft	1.86	1.86	3.72
A319-131	Small Narrow-Body Aircraft	41.95	41.95	83.90
A320-211	Small Narrow-Body Aircraft	48.58	48.58	97.16
A320-232	Small Narrow-Body Aircraft	45.85	45.85	91.71
A321-232	Small Narrow-Body Aircraft	17.49	17.49	34.98
A330-301	Large Wide-Body Aircraft	1.56	1.56	3.11
A330-343	Large Wide-Body Aircraft	4.09	4.09	8.19
A340-211	Large Wide-Body Aircraft	4.24	4.24	8.49
A340-642	Large Wide-Body Aircraft	4.10	4.10	8.21
A380-841	New Large Aircraft	7.21	7.21	14.42
A380-861	New Large Aircraft	6.63	6.63	13.27
BEC58P	Non-Jet Aircraft	0.28	0.28	0.57
C17	Non-Jet Aircraft	0.03	0.03	0.07
C5A	Non-Jet Aircraft	0.01	0.01	0.03
CIT3	Small Jet Aircraft	0.14	0.14	0.27
CL600	Small Jet Aircraft	4.07	4.07	8.14
CL601	Small Jet Aircraft	73.33	73.33	146.65
CNA172	Non-Jet Aircraft	0.04	0.04	0.09
CNA182	Non-Jet Aircraft	0.01	0.01	0.02
CNA206	Non-Jet Aircraft	0.03	0.03	0.07
CNA208	Non-Jet Aircraft	0.56	0.56	1.13
CNA441	Non-Jet Aircraft	0.97	0.97	1.94
CNA500	Small Jet Aircraft	0.38	0.38	0.76
CNA510	Small Jet Aircraft	0.79	0.79	1.59
CNA525C	Small Jet Aircraft	0.76	0.76	1.52
CNA55B	Small Jet Aircraft	0.56	0.56	1.11
CNA560E	Small Jet Aircraft	0.25	0.25	0.50
CNA560XL	Small Jet Aircraft	1.31	1.31	2.61
CNA680	Small Jet Aircraft	0.67	0.67	1.34
CNA750	Small Jet Aircraft	2.10	2.10	4.20
CRJ9-ER	Small Jet Aircraft	91.87	91.87	183.73
DHC6	Non-Jet Aircraft	0.07	0.07	0.14

TABLE 4-3 (Continued)  
ANNUAL AVERAGE DAY OPERATIONS BY INM AIRCRAFT TYPE – 2020  
LOS ANGELES INTERNATIONAL AIRPORT

INM Aircraft Type	Aircraft Category	Arrivals	Departures	Total
DHC830	Non-Jet Aircraft	10.81	10.81	21.62
DO328	Non-Jet Aircraft	0.03	0.03	0.06
ECLIPSE500	Small Jet Aircraft	0.04	0.04	0.09
EMB120	Non-Jet Aircraft	52.55	52.55	105.10
EMB145	Small Jet Aircraft	1.60	1.60	3.21
EMB14L	Small Jet Aircraft	0.22	0.22	0.44
EMB170	Small Jet Aircraft	5.59	5.59	11.19
EMB190	Small Jet Aircraft	6.52	6.52	13.04
F10052	Small Jet Aircraft	1.20	1.20	2.40
FAL20	Small Jet Aircraft	0.09	0.09	0.18
GASEPV	Non-Jet Aircraft	0.12	0.12	0.25
GIV	Small Jet Aircraft	3.84	3.84	7.68
GV	Small Jet Aircraft	4.19	4.19	8.39
IA1125	Small Jet Aircraft	0.30	0.30	0.59
LEAR35	Small Jet Aircraft	3.55	3.55	7.10
MD9025	Small Narrow-Body Aircraft	0.02	0.02	0.04
MU3001	Small Jet Aircraft	1.25	1.25	2.49
PA28	Non-Jet Aircraft	0.03	0.03	0.05
PA31	Non-Jet Aircraft	0.02	0.02	0.03
PA42	Non-Jet Aircraft	0.02	0.02	0.04
SA365N	Helicopter	3.36	3.36	6.71
SD330	Non-Jet Aircraft	0.29	0.29	0.57
<b>All Aircraft</b>		<b>966.10</b>	<b>966.10</b>	<b>1,932.20</b>

NOTE: Values may not sum to totals shown due to rounding.  
SOURCE: ESA Airports, October 2014.



## 2020 Aircraft Fleet Mix Assumptions

- **747200s will be replaced by 747400s**
- **747400s will have fewer operations with increased operations by the A380-841 and A380-861 to compensate**
- **737300s, 737400s, and 737500s would be replaced by 737700s and 737800s**
- **MD11s would be replaced 777200s and A320s**

## 2020 Aircraft Fleet Mix Assumptions (cont.)

- **MD80s and MD90s would be replaced by A320s**
- **727s would be replaced by 757s**
- **A310s and A300s would be replaced by 767s**
- **DC9s would be replaced by 757s**

## 2015 Time of Day

TABLE 4-4  
AIRCRAFT OPERATIONS BY TIME OF DAY - EXISTING (2015) CONDITIONS  
LOS ANGELES INTERNATIONAL AIRPORT

Aircraft Category	Arrivals				Departures			
	Day	Evening	Night	Total	Day	Evening	Night	Total
Large Narrow-Body Aircraft	49.45%	25.66%	24.90%	100.00%	73.93%	2.36%	23.71%	100.00%
Large Wide-Body Aircraft	67.99%	11.99%	20.01%	100.00%	48.64%	13.53%	37.82%	100.00%
Non-Jet Aircraft	74.40%	15.19%	10.41%	100.00%	72.35%	15.49%	12.16%	100.00%
New Large Aircraft	64.44%	17.34%	18.22%	100.00%	45.02%	3.04%	51.94%	100.00%
Small Jet Aircraft	72.04%	19.37%	8.59%	100.00%	74.75%	16.21%	9.04%	100.00%
Small Narrow-Body Aircraft	66.62%	20.36%	13.01%	100.00%	70.58%	10.89%	18.53%	100.00%
Small Wide-Body Aircraft	50.50%	23.12%	26.38%	100.00%	56.80%	10.77%	32.43%	100.00%
<b>All Aircraft<sup>1</sup></b>	<b>65.96%</b>	<b>19.61%</b>	<b>14.43%</b>	<b>100.00%</b>	<b>69.03%</b>	<b>11.65%</b>	<b>19.32%</b>	<b>100.00%</b>

NOTES:

Values may not sum to 100% due to rounding.

<sup>1</sup> Does not include helicopter operations

SOURCE: ESA Airports, October 2014, based on LAX ANOMS data for calendar year 2013.

## 2020 Time of Day

TABLE 4-5  
AIRCRAFT OPERATIONS BY TIME OF DAY - FUTURE (2020) CONDITIONS  
LOS ANGELES INTERNATIONAL AIRPORT

Aircraft Category	Arrivals				Departures			
	Day	Evening	Night	Total	Day	Evening	Night	Total
Large Narrow-Body Aircraft	49.38%	25.70%	24.92%	100.00%	73.91%	2.36%	23.74%	100.00%
Large Wide-Body Aircraft	75.55%	11.46%	12.99%	100.00%	54.66%	11.98%	33.36%	100.00%
Non-Jet Aircraft	75.12%	15.06%	9.81%	100.00%	72.93%	15.82%	11.25%	100.00%
New Large Aircraft	72.23%	13.31%	14.46%	100.00%	52.09%	2.54%	45.37%	100.00%
Small Jet Aircraft	72.01%	19.45%	8.54%	100.00%	74.70%	16.28%	9.03%	100.00%
Small Narrow-Body Aircraft	65.95%	20.38%	13.67%	100.00%	69.83%	10.93%	19.24%	100.00%
Small Wide-Body Aircraft	54.56%	24.69%	20.75%	100.00%	61.33%	11.89%	26.77%	100.00%
<b>All Aircraft <sup>1</sup></b>	<b>66.60%</b>	<b>19.63%</b>	<b>13.78%</b>	<b>100.00%</b>	<b>69.51%</b>	<b>11.49%</b>	<b>19.00%</b>	<b>100.00%</b>

NOTES:

Values may not sum to 100% due to rounding.

<sup>1</sup> Does not include helicopter operations

SOURCE: ESA Airports, October 2014.

## 2015 Runway Use

TABLE 4-11  
 RUNWAY USE BY OPERATION TYPE AND TIME OF DAY - EXISTING (2015) CONDITIONS  
 LOS ANGELES INTERNATIONAL AIRPORT

Runway	Arrival			Departure		
	Day	Evening	Night	Day	Evening	Night
06L	0.47%	0.23%	3.55%	0.02%	0.01%	0.01%
06R	0.01%	0.00%	15.73%	0.46%	0.24%	0.22%
07L	0.01%	0.01%	6.55%	0.55%	0.28%	0.51%
07R	0.54%	0.28%	4.30%	0.01%	0.02%	0.17%
24L	1.58%	2.39%	1.27%	43.20%	40.02%	25.87%
24R	45.91%	46.64%	30.97%	1.49%	0.47%	1.33%
25L	49.44%	47.12%	35.62%	3.23%	5.05%	10.82%
25R	2.04%	3.33%	2.01%	51.04%	53.91%	61.08%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

NOTES:

Values may not sum to 100% due to rounding.

Does not include helicopter operations

SOURCE: ESA Airports, October 2014, based on LAX ANOMS data for calendar year 2013.

## 2020 Runway Use

TABLE 4-12  
 RUNWAY USE BY OPERATION TYPE AND TIME OF DAY - FUTURE (2020) CONDITIONS  
 LOS ANGELES INTERNATIONAL AIRPORT

Runway	Arrival			Departure		
	Day	Evening	Night	Day	Evening	Night
06L	0.48%	0.23%	3.38%	0.02%	0.01%	0.01%
06R	0.01%	0.00%	15.00%	0.45%	0.26%	0.24%
07L	0.01%	0.01%	4.90%	0.55%	0.28%	0.50%
07R	0.53%	0.28%	3.17%	0.01%	0.01%	0.17%
24L	1.58%	2.39%	1.43%	44.22%	42.15%	28.55%
24R	46.53%	47.21%	34.12%	1.50%	0.49%	1.43%
25L	48.82%	46.52%	36.09%	2.90%	3.45%	9.60%
25R	2.04%	3.36%	1.92%	50.35%	53.35%	59.51%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

NOTES:

Values may not sum to 100% due to rounding.

Does not include helicopter operations

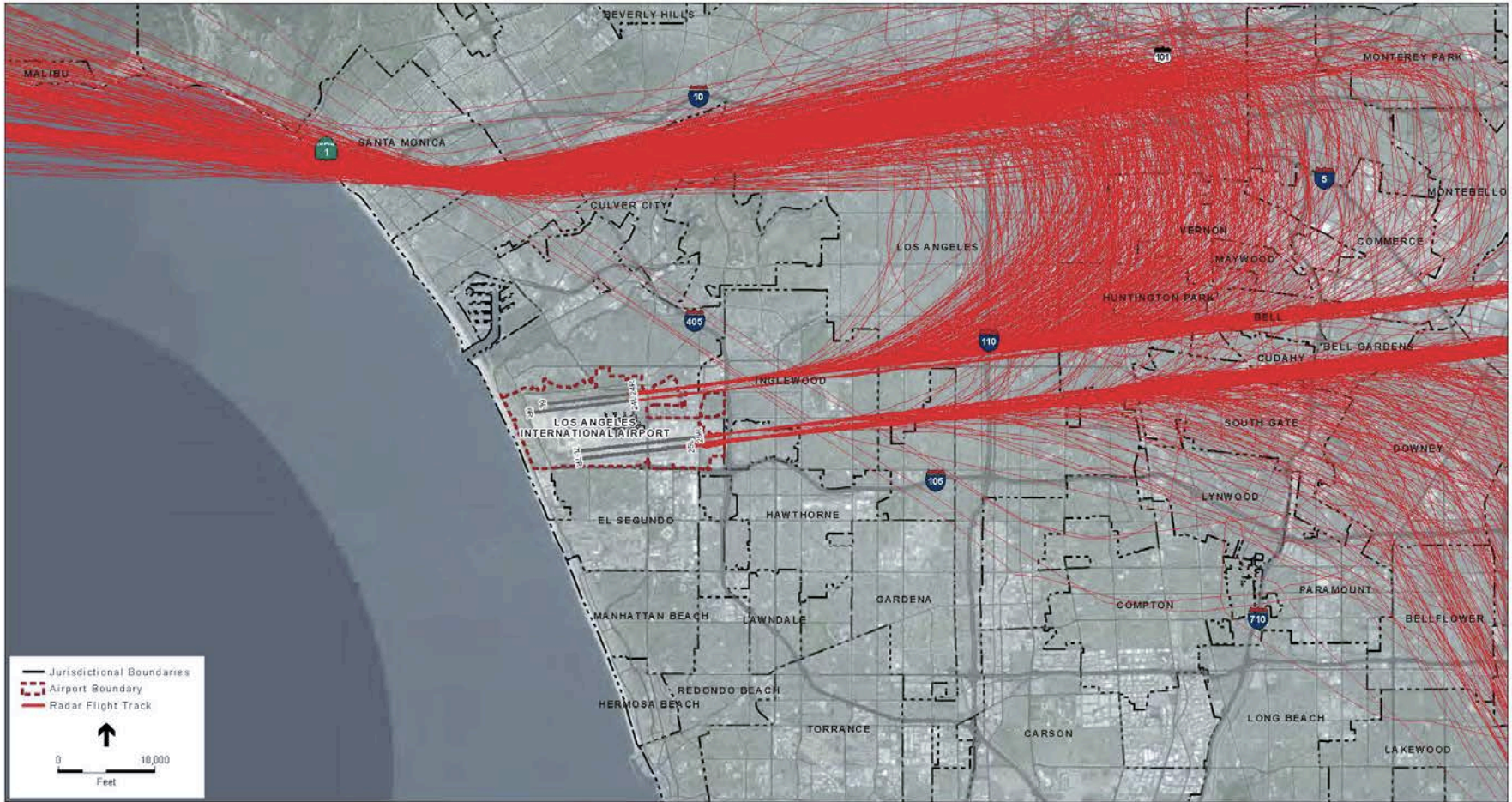
SOURCE: ESA Airports, October 2014.

## Runway Use Assumptions

- **Runway use by INM aircraft type remains the same from 2015 to 2020**
- **Runway use tables show runway use by aircraft category (e.g., small-narrow body, large narrow-body)**
- **Changes in the mix of aircraft by category are responsible for the small changes in the 2020 runway use values**
- **Generally, changes in runway use are less than 5 percent**

# LAX Part 150 Noise Exposure Map Update

## Radar Flight Tracks – Runways 24 and 25 Arrivals



SOURCES: LAWA Airport Noise and Operations Management System data, 2013; LA Co. DCP, 2014; City of LA DCP, 2013; ESA Airports, 2014; ESRI ArcGIS Online, 2011; PCR Services Corporation, 2012

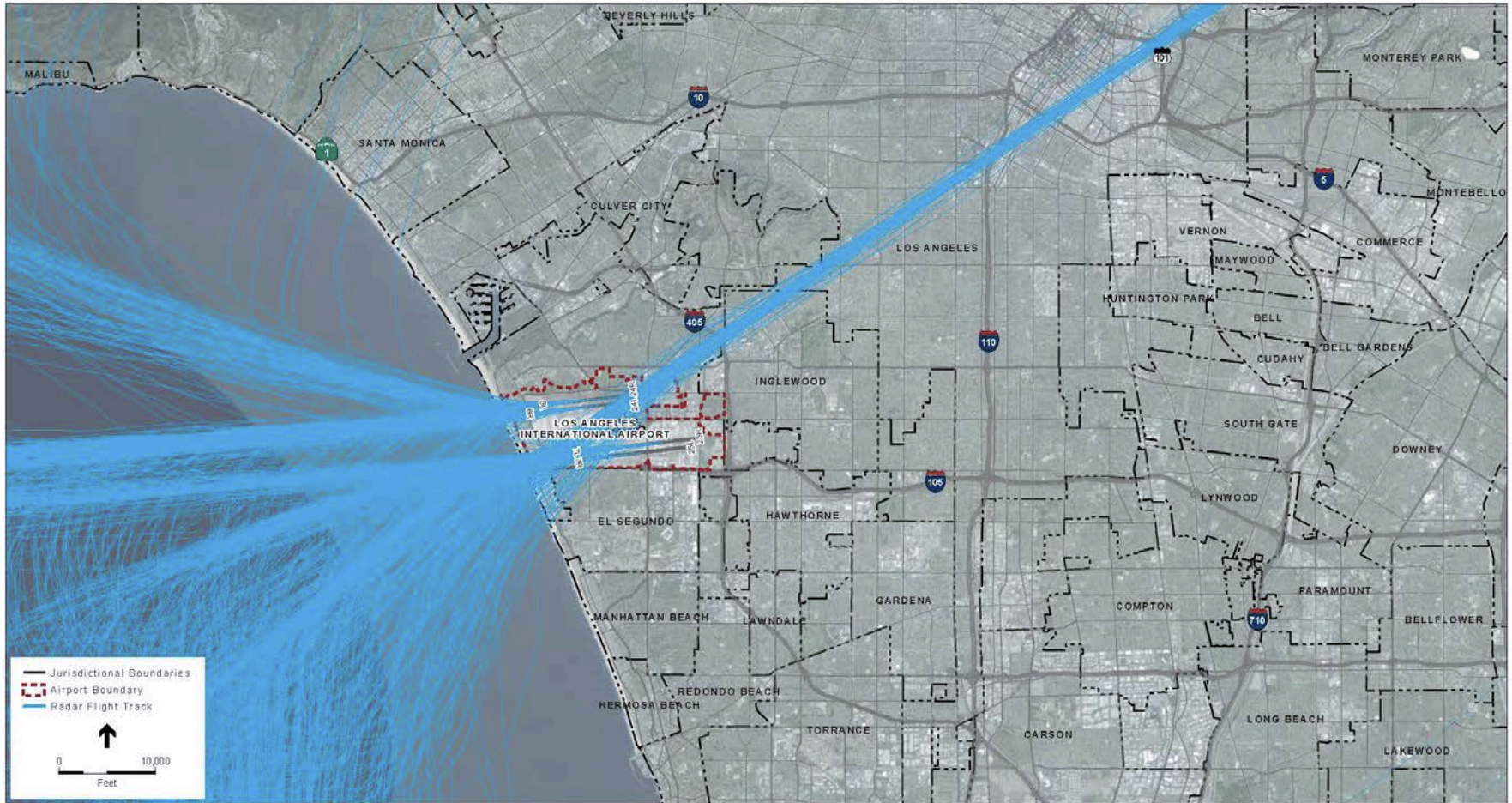
Los Angeles International Airport 14 CFR Part 150 Study, 130072.03

**Exhibit C-1**  
Radar Flight Tracks – Arrivals from the East



# LAX Part 150 Noise Exposure Map Update

## Radar Flight Tracks – Runways 24 and 25 Departures



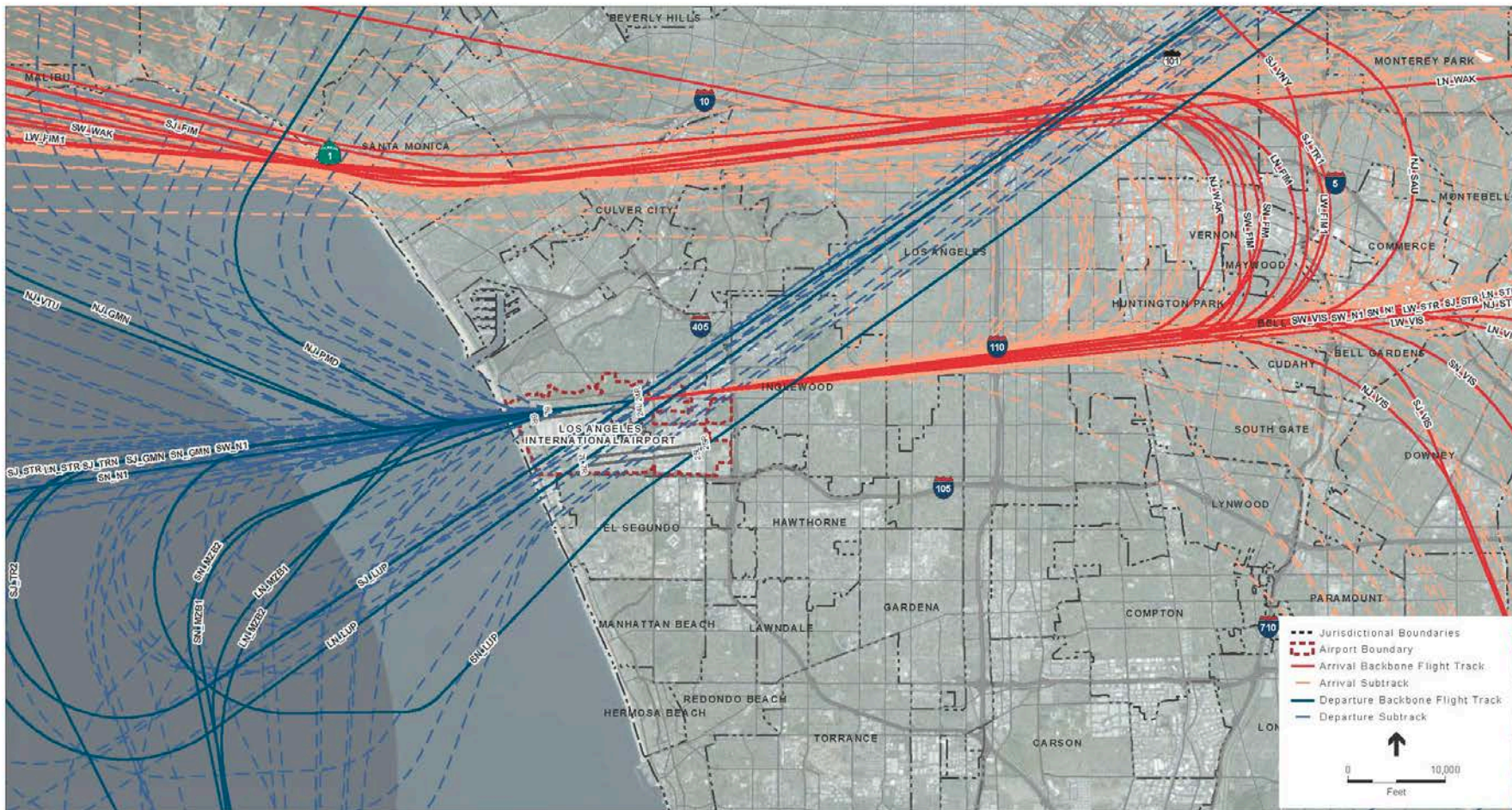
SOURCES: LAVA Airport Noise and Operations Management System data, 2013; LA Co. DRP, 2014; City of LA DCP, 2013; ESA Airports, 2014; ESRI ArcGIS Online, 2011; PCR Services Corporation, 2012

Los Angeles International Airport 14 CFR Part 150 Study - 130072.03

**Exhibit C-4**  
Radar Flight Tracks – Departures to the West

# LAX Part 150 Noise Exposure Map Update

## Modeled Flight Tracks – Runway 24R Departures and Arrivals



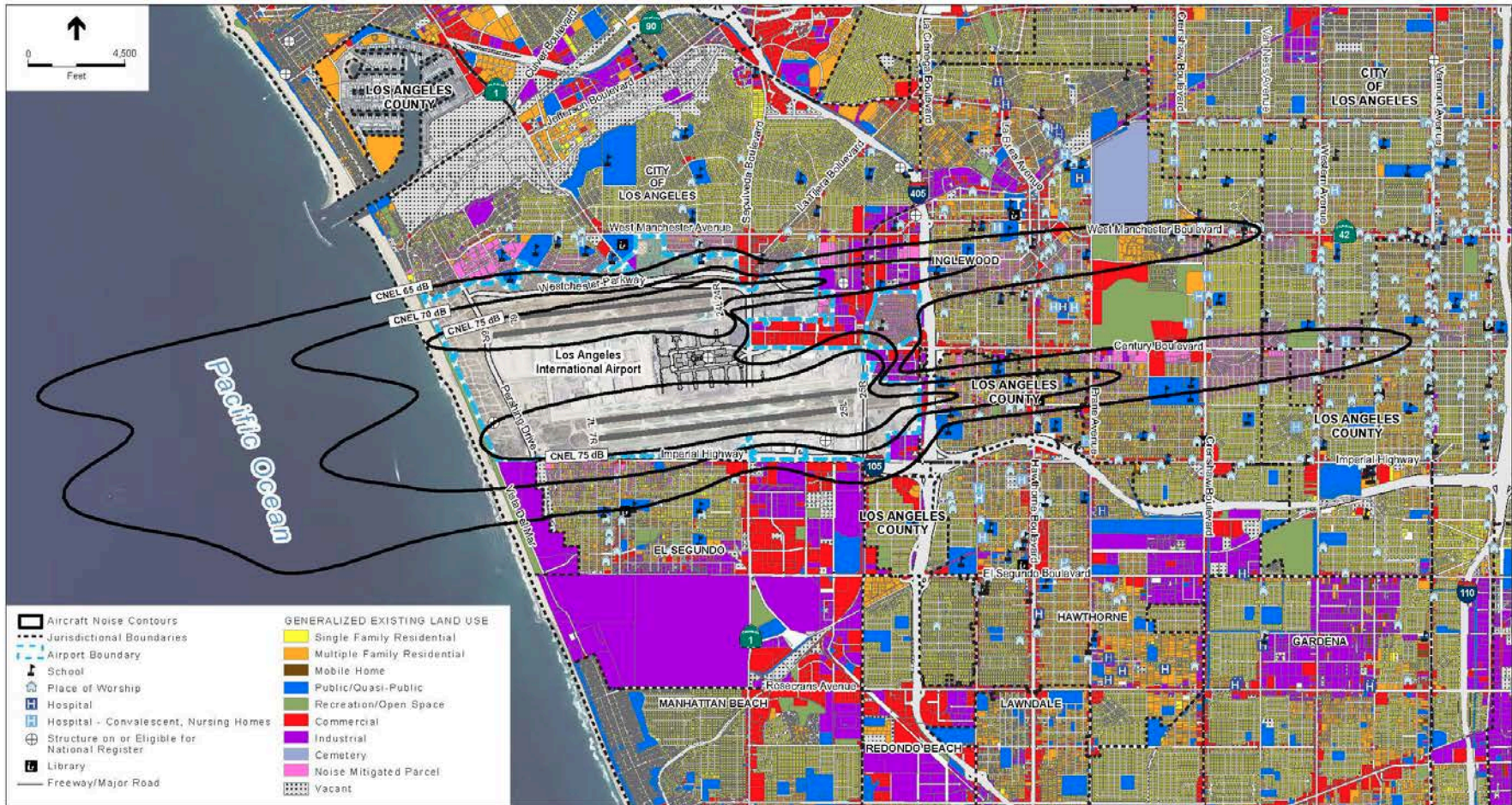
SOURCES: ESA Airports, 2014, LA Co. DRP, 2014, City of LA DCP, 2013, ESRI ArcGIS Online, 2011, PCR Services Corporation, 2012  
 NOTE: INM = Integrated Noise Model

Los Angeles International Airport 14 CFR Part 150 Study, 130072.03

**Exhibit 4-3a**  
 INM Arrival and Departure Flight Tracks – Runway 24R

# LAX Part 150 Noise Exposure Map Update

## 2015 Noise Exposure Map – Existing Conditions



SOURCES: LAWA, 2014; ESA Airports, 2014; ESRI ArcGIS Online, 2011; ESRI World Imagery - Aerial; PCR Services Corporation, 2012  
 NOTES: CNEL = Community Noise Equivalent Level, dB = Decibel.

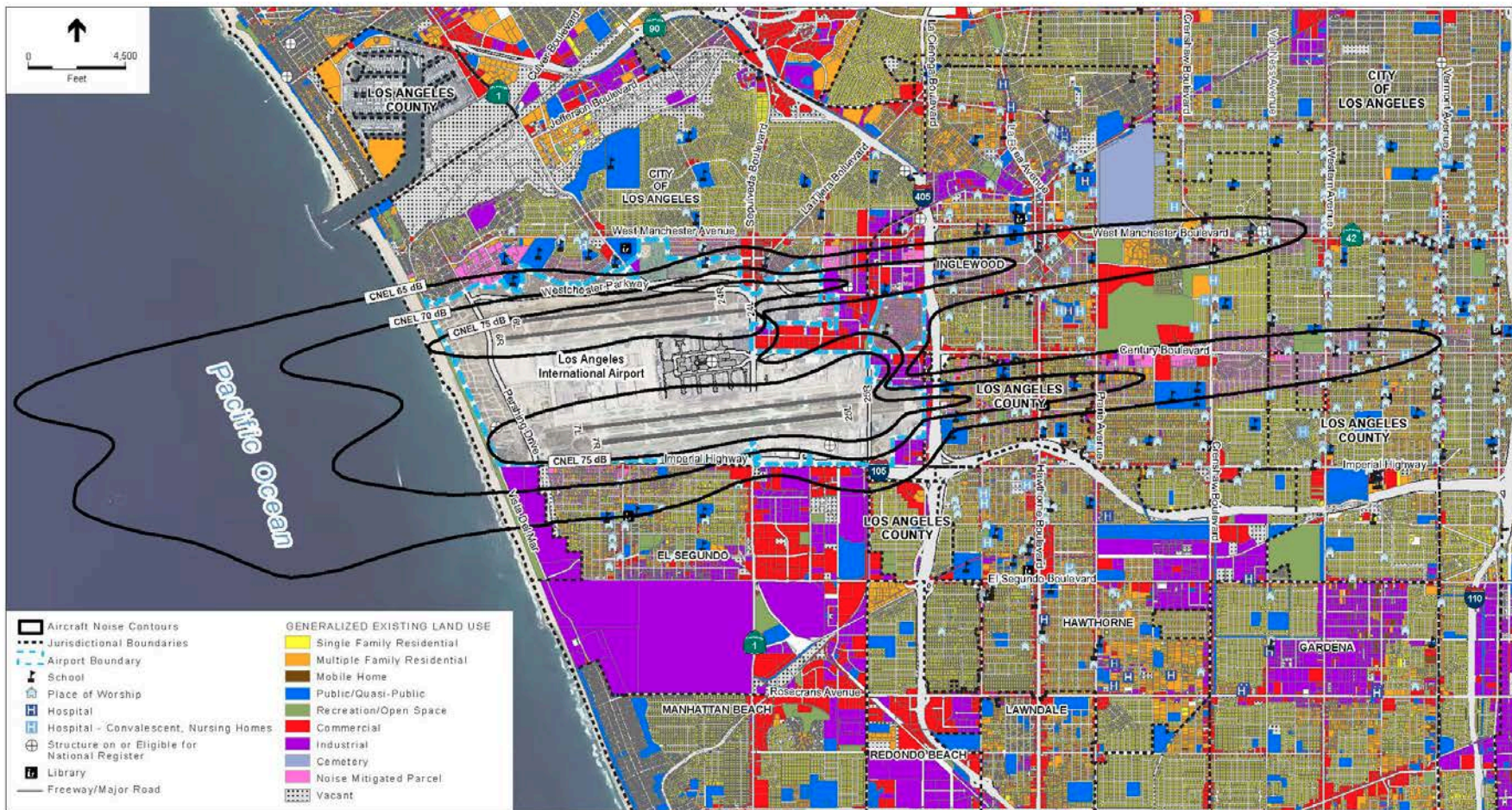
Los Angeles International Airport 14 CFR Part 150 Study, 130072.03

**Exhibit 5-1**

2015 Noise Exposure Map (Existing Conditions) - Los Angeles International Airport

# LAX Part 150 Noise Exposure Map Update

## 2020 Noise Exposure Map – Future Conditions



SOURCES: LAWA, 2014; ESA Airports, 2014; ESRI ArcGIS Online, 2011; ESRI World Imagery - Aerial; PCR Services Corporation, 2012  
 NOTES: CNEL = Community Noise Equivalent Level, dB = Decibel

# LAX Part 150 Noise Exposure Map Update

TABLE 5-2  
EFFECTS OF NOISE EXPOSURE IN THE AIRPORT ENVIRONS – 2015 AND 2020

Noise Level	Area (acres)	Households	Population	Place of Worship	School	Hospital	Historic Structure
<b>2015</b>							
CNEL 65-70	6,581.1	9,323	29,585	32	19	2	1
CNEL 70-75	3,017.5	2,047	7,968	1	5	0	3
CNEL 75+	1,792.5	46	250	0	0	0	1
<b>Total</b>	<b>11,391.0</b>	<b>11,416</b>	<b>37,803</b>	<b>33</b>	<b>24</b>	<b>2</b>	<b>5</b>
<b>2020</b>							
CNEL 65-70	6,876.4	10,399	32,507	42	21	3	1
CNEL 70-75	3,229.9	2,575	10,068	1	5	0	3
CNEL 75+	1,929.4	71	384	0	0	0	1
<b>Total</b>	<b>12,035.6</b>	<b>13,045</b>	<b>42,959</b>	<b>43</b>	<b>26</b>	<b>3</b>	<b>5</b>

**NOTES:**

The households and population counts presented above do not include noise mitigated properties.

CNEL = Community Noise Equivalent Level

Values may not sum to totals shown due to rounding.

SOURCES: Los Angeles World Airports, 2014; ESA Airports, 2014; PCR Services Corporation, 2012.

# LAX Part 150 Noise Exposure Map Update

TABLE 5-3  
LAND USE EVALUATION – 2015 AND 2020 NOISE EXPOSURE MAPS  
LOS ANGELES INTERNATIONAL AIRPORT

Land Use	Area Exposed to Aircraft Noise in 2015 (acres)				Area Exposed to Aircraft Noise in 2020 (acres)			
	CNEL 65-70	CNEL 70-75	CNEL 75+	Total	CNEL 65-70	CNEL 70-75	CNEL 75+	Total
Single family residential	303.9	69.8	2.0	375.7	370.4	84.4	2.4	457.2
Multiple family residential	349.7	68.2	2.0	419.9	383.0	82.5	4.0	469.5
Mobile Home	0.9	0.0	0.0	0.9	0.9	0.0	0.0	0.9
Public/Quasi-Public	145.9	24.5	0.0	170.3	165.1	31.1	0.0	196.1
Recreation/Open Space	79.9	38.1	4.7	122.8	87.5	41.8	2.0	131.3
Commercial	330.5	67.6	5.1	403.2	350.5	97.3	10.6	458.4
Industrial	217.5	123.5	12.2	353.2	218.3	132.0	21.7	371.9
Cemetery	22.2	0.0	0.0	22.2	33.4	0.0	0.0	33.4
Noise Mitigated Parcel	566.8	118.5	1.6	686.9	630.0	150.2	4.1	784.2
Airport	504.4	1,375.4	1,737.8	3,617.5	400.0	1,380.5	1,851.8	3,632.4
Water/Beach	3,338.8	918.3	5.6	4,262.8	3,429.6	973.5	6.4	4,409.5
Vacant	56.3	21.1	0.3	77.6	60.1	23.4	0.3	83.8
Transportation/Other	664.4	192.4	21.2	878.0	747.6	233.3	26.1	1,007.1
<b>Total</b>	<b>6,581.1</b>	<b>3,017.5</b>	<b>1,792.5</b>	<b>11,391.0</b>	<b>6,876.4</b>	<b>3,229.9</b>	<b>1,929.4</b>	<b>12,035.6</b>

NOTES:

CNEL = Community Noise Equivalent Level

Values may not sum to totals shown due to rounding.

SOURCES: Los Angeles World Airports, 2014; ESA Airports, 2014; PCR Services Corporation, 2012.

## Key Accomplishments to Date

- **Prepared a Preliminary Draft LAX NEM Report**
  - Incorporated LAWA's edits and comments
  - Incorporated FAA's edits and comments
- **Published the Draft LAX NEM Report**
  - An electronic copy is on the LAX 14 CFR Part 150 NEM Update Website
  - Printed copies are at five area libraries
- **Conducted a total of four public workshops**
- **Provided three formal Roundtable briefings**

## What's Next

- **The 30-day public comment period ends on June 9, 2015**
- **Incorporate FAA and LAWA's edits/comments into the Final LAX NEM Report**
- **LAWA submits the Final LAX NEM Report to FAA for FAA's review and acceptance in July 2015**
- **FAA accepts the LAX NEMs**



## Additional Resources:

- **Electronic copies of the LAX NEM Report are available at:**  
<http://www.lawa.org/LAXPart150.aspx>
- **Hardcopies of the Draft LAX NEM Reports are available at the following libraries:**
  - **Loyola Village Branch Library, Westchester**
  - **El Segundo Public Library, El Segundo**
  - **Inglewood Main Library, Inglewood**
  - **Lennox Library, Lennox**
  - **Mark Twain Library, Los Angeles**
- **FAA's 14 CFR Part 150 Website:**  
[http://www.faa.gov/airports/environmental/airport\\_noise/](http://www.faa.gov/airports/environmental/airport_noise/)

## *Questions?*