

APPENDIX F

Public Involvement and Outreach

F.1 Public Workshops – Round 1

The following sections contain meeting notices, handouts, and presentation boards associated with the May 12, 2014 and May 13, 2014 Public Workshops conducted for the Los Angeles International Airport FAR Part 150 Noise Exposure Map Update. Information regarding the May 2014 public workshops excluding the newspaper notices described below has been uploaded to the website established for the Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Update:

<http://www.lawa.org/LAXPart150.aspx?id=8526>

F.1.1 Meeting Notices and Advertisements

The May 2014 public workshops were advertised in the Los Angeles Times and The Argonaut. Those advertisements and proof of publication statements received from those newspapers are included in this Appendix. Members of the LAX/Community Noise Roundtable and other interested stakeholders received an e-mail notice regarding the May 2014 public workshops on May 2, 2014. The stakeholders included elected officials, community groups, aircraft operators, city planning agencies, and the media. LAWA issued a press release about the public workshops on May 6, 2014. The e-mail notice and press release are also included in this Appendix.

F.1.2 Handouts and Sign-in Sheet

Copies of the meeting handouts (English and Spanish versions) that were developed for the May 2014 public workshops are included in this Appendix. Also included in this Appendix are the completed meeting sign-in sheets for the May 2014 public workshops.

F.1.3 Presentation Boards

Presentation boards from the May 2014 public workshops are presented after the meeting sign-in sheets.

F.2 Public Workshops - Round 2

A second round of public workshops for the Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Update was held on May 11, 2015 and May 12, 2015.

F.2.1 Meeting Notices and Advertisements

The May 2015 public workshops were advertised in the Los Angeles Times and The Daily Breeze. Those advertisements and proof of publication statements received from those newspapers are included in this Appendix. Members of the LAX/Community Noise Roundtable and other interested stakeholders received an e-mail notice regarding the May 2015 public workshops on May 2, 2014. The stakeholders included elected officials, community groups, aircraft operators, city planning agencies, and the media.

F.2.2 Handouts and Sign-in Sheet

The meeting handouts (English and Spanish versions) that were developed for the May 2015 public workshops are included in this Appendix. Also included in this Appendix are the completed meeting sign-in sheets for the May 2015 public workshops.

F.2.3 Presentation Boards

Presentation boards from the May 2015 public workshops are presented after the meeting sign-in sheets.

F.3 Public Review - Draft Noise Exposure Map Report

The Draft Noise Exposure Map Report was uploaded to the project website on May 9, 2015 and was available for public review at five public libraries in the vicinity of LAX. LAWA accepted comments regarding the Draft Noise Exposure Map Report between May 9, 2015 and June 9, 2015. The notice regarding the availability of the Draft Noise Exposure Map Report for public review appears on the project website and is included in this Appendix.

F.4 LAX/Community Noise Roundtable Briefings

The LAX/Community Noise Roundtable membership includes local elected officials and staff, representatives of congressional offices, members of recognized community groups, the FAA, the airlines, and LAWA Management. LAX/Community Noise Roundtable briefings occurred on March 12, 2014; May 14, 2014; and May 13, 2015. MS PowerPoint slides developed for the LAX/Community Roundtable briefings are provided in this Appendix.

F.5 FAA ATCT Personnel Briefings

A briefing meeting was held with the FAA's LAX ATCT Support Manager (Rolan Morel) on March 11, 2015. MS PowerPoint slides developed for the FAA ATCT briefing are provided in this Appendix.

F.6 Agencies and Individuals Consulted during the Noise Exposure Map Update

More than 1,800 individuals were contacted during the development of the LAX Noise Exposure Maps and were invited to participate in public workshops and to provide comments regarding the May 2015 Draft Noise Exposure Map Report. The majority of these individuals, over 1,700, were contacted using an email only distribution list originally created by LAWA as the LAX Master Plan Stakeholders Distribution list. This list has since been amended through the years and used to notify stakeholders for various LAWA projects requiring public outreach. A subset of the agencies and individuals that were consulted during the update of the LAX Noise Exposure Maps and that were invited to submit comments regarding the Draft Noise Exposure Map Report are listed at the end of this Appendix.

Proof of Publication

Los Angeles Times

STATE OF CALIFORNIA
County of Los Angeles

I am a citizen of the United States, and a resident of the county aforesaid; I am over the age of eighteen years; and I am not a party to or interested in the notice published. I am the chief legal advertising clerk of the publisher of the LOS ANGELES TIME a newspaper of general circulation, printed and published daily in the City of Los Angeles, County of Los Angeles. The LOS ANGELES TIMES has been adjudged a newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, under the date of May 21, 1952, Case No. 598,599. The notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

May 1,

all in the year 2014

I certify (or declare) under penalty of perjury that the foregoing is true and correct

Dated at Los Angeles, California, this

1st day of May 2014



Signature

2615483

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NOTICE OF PUBLIC INFORMATION WORKSHOPS TO INTRODUCE THE LOS ANGELES INTERNATIONAL AIRPORT FEDERAL AVIATION REGULATION (FAR) PART 150 NOISE EXPOSURE MAP UPDATE STUDY

Los Angeles World Airports (LAWA) will be hosting two (2) public information workshops in May 2014 to provide information regarding the Federal Aviation Regulation (FAR) Part 150 Noise Exposure Map Update Study for Los Angeles International Airport. The workshops will include guided displays that will present information regarding the FAR Part 150 Noise Exposure Map Update study process, the project schedule, noise metrics, and methods used to quantify aircraft noise exposure. A second round of public information workshops will be conducted early next year to provide information regarding the primary products of the FAR Part 150 Noise Exposure Map Update Study -- the 2015 and 2020 Noise Exposure Maps. Information presented at each workshop listed below will be the same. Residents need only attend one workshop to learn about the study and offer input. Each workshop will be held in an "open house" format from 6 p.m. to 8 p.m. on the dates listed below. No formal presentation will be given in order to provide the public with the maximum opportunity for one-on-one interaction and sharing of information and concerns. You may attend the workshop at any time during the two-hour open house.

Monday, May 12, 2014
- **Jessie Owens**
Community Regional Park Gymnasium
9651 S. Western Avenue
Los Angeles, CA 90047

Tuesday, May 13, 2014 - **Flight Path Learning Center & Museum**
6661 West Imperial Highway
Los Angeles, CA 90045

For more information, please visit the project website at: <http://www.lawa.org/welcomelAX.aspx>.

Anyone needing special accommodations under the Americans with Disabilities Act of 1990 should contact Larry Rolon, LAWA ADA Coordinator, at (424) 646-5005 at least 72 hours prior to the meeting. Anyone with questions about the project should contact Ms. Kathryn Pantoja at (424) 646-6501.

Asistencia en español será disponible en las reuniones.

5/1/14



PROOF OF PUBLICATION
(2015.5 C.C.P.)

Proof of Publication of

STATE OF CALIFORNIA
County of Los Angeles

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of The Argonaut, a newspaper of general circulation, printed and published weekly in the County of Los Angeles, State of California, under the date of March 7, 1973, modified October 5, 1976, Case Number C47170; that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

All in the year 2014

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at 15th Day of April, 2014

California, Los Angeles

Signature:

Tiyana Dennis

NOTICE OF PUBLIC INFORMATION WORKSHOPS TO INTRODUCE THE LOS ANGELES INTERNATIONAL AIRPORT FEDERAL AVIATION REGULATION (FAR) PART 150 NOISE EXPOSURE MAP UPDATE STUDY

Los Angeles World Airports (LAWA) will be hosting two (2) public information workshops in May 2014 to provide information regarding the Federal Aviation Regulation (FAR) Part 150 Noise Exposure Map Update Study for Los Angeles International Airport. The workshops will include guided displays that will present information regarding the FAR Part 150 Noise Exposure Map Update study process, the project schedule, noise metrics, and methods used to quantify aircraft noise exposure. A second round of public information workshops will be conducted early next year to provide information regarding the primary products of the FAR Part 150 Noise Exposure Map Update Study - the 2015 and 2020 Noise Exposure Maps.

Information presented at each workshop listed below will be the same. Residents need only attend one workshop to learn about the study and offer input. Each workshop will be held in an "open house" format from **6 p.m. to 8 p.m.** on the dates listed below. **No formal presentation will be given** in order to provide the public with the maximum opportunity for one-on-one interaction and sharing of information and concerns. You may attend the workshop at any time during the two-hour open house.

- **Monday, May 12, 2014 - Jessie Owens Community Regional Park Gymnasium**
9651 S. Western Avenue
Los Angeles, CA 90047
- **Tuesday, May 13, 2014 - Flight Path Learning Center & Museum**
6661 West Imperial Highway
Los Angeles, CA 90045

For more information, please visit the project website at: <http://www.lawa.org/welcomeLAX.aspx>.

Anyone needing special accommodations under the Americans with Disabilities Act of 1990 should contact Larry Rolon, LAWA ADA Coordinator, at (424) 646-5005 at least 72 hours prior to the meeting. Anyone with questions about the project should contact Ms. Kathryn Pantoja at (424) 646-6501.

Asistencia en español estará disponible en las reuniones.

5/1/14
CNS-2615489#
THE ARGONAUT

The Argonaut
Local News & Culture

Located at 5355 McConnell Ave.,
Los Angeles, CA 90066
(310) 822-1629 x 103



From: CHAN, DAVID [mailto:DCHAN@lawa.org]
Sent: Friday, May 02, 2014 1:05 PM
Subject: Public Workshops for LAX Part 150 Noise Exposure Map Update

NOTICE OF PUBLIC INFORMATION WORKSHOPS
To Introduce the Los Angeles International Airport Federal Aviation Regulation
(FAR) Part 150 Noise Exposure Map Update Study

Los Angeles World Airports (LAWA) will be hosting two (2) public information workshops in May 2014 to provide information regarding the Federal Aviation Regulation (FAR) Part 150 Noise Exposure Map Update Study for Los Angeles International Airport. The workshops will include guided displays that will present information regarding the FAR Part 150 Noise Exposure Map Update study process, the project schedule, noise metrics, and methods used to quantify aircraft noise exposure. A second round of public information workshops will be conducted early next year to provide information regarding the primary products of the FAR Part 150 Noise Exposure Map Update Study – the 2015 and 2020 Noise Exposure Maps.

Information presented at each workshop listed below will be the same. Residents need only attend one workshop to learn about the study and offer input. Each workshop will be held in an **“open house”** format from **6 p.m. to 8 p.m.** on the dates listed below. No formal presentation will be given in order to provide the public with the maximum opportunity for one-on-one interaction and sharing of information and concerns. You may attend the workshop at any time during the two-hour open house.

- **Monday, May 12, 2014 – Jessie Owens Community Regional Park Gymnasium**
9651 S. Western Avenue
Los Angeles, CA 90047
- **Tuesday, May 13, 2014 – Flight Path Learning Center & Museum**
6661 West Imperial Highway
Los Angeles, CA 90045

For more information, please visit the project website at: <http://www.lawa.org/LAXPart150.aspx>

Anyone needing special accommodations under the Americans with Disabilities Act of 1990 should contact Larry Rolon, LAWA ADA Coordinator, at (424) 646-5005 at least 72 hours prior to the meeting. Anyone with questions about the project should contact Ms. Kathryn Pantoja at (424) 646-6501.

CONTACT: Marshall Lowe
(424) 646-5260

**PUBLIC WORKSHOPS SET TO PROVIDE INFORMATION
ON NOISE EXPOSURE MAP UPDATE STUDY AT LOS ANGELES INTERNATIONAL AIRPORT**

(Los Angeles, California – May 6, 2014) Los Angeles World Airports (LAWA) is hosting public information workshops on May 12 and 13, 2014 to provide information regarding the Federal Aviation Regulation (FAR) Part 150 Noise Exposure Map Update Study process for Los Angeles International Airport (LAX).

The two workshops will be held from 6 to 8 p.m. at the following locations:

- Monday, May 12, 2014 – Jesse Owens Community Regional Park Gymnasium, 9651 S. Western Avenue, Los Angeles, CA 90047
- Tuesday, May 13, 2014 – Flight Path Museum and Learning Center, 6661 West Imperial Highway, Los Angeles, CA 90045

Updating the Noise Exposure Maps for LAX is a key step in local jurisdictions being able to apply for federal funding for sound insulation treatment of homes that are within LAX's noise impact area, airport officials said.

"These public workshops will introduce the community to the FAR Part 150 study process as well as allow residents to ask questions of our staff and members of the consultant team," said Scott Tatro, LAWA environmental services manager. "Public input is a critical component of the process."

The workshops will include guided displays that present information regarding the FAR Part 150 Noise Exposure Map Update study process, the project schedule, noise metrics, and methods used to determine aircraft noise exposure.

Information presented at each workshop will be the same. Residents need only attend one workshop to learn about the study and offer input.

-more-

Public Workshops ... Page 2 of 2

Each workshop will be held using an “open house” format. No formal presentation will be given in order to provide the public with the maximum opportunity for one-on-one interaction and sharing of information and concerns. Visitors may attend a workshop at any time during the two-hour open house.

For more information, please visit the project website at: <http://www.lawa.org/LAXPart150.aspx>. Anyone with questions about the project should contact Kathryn Pantoja, LAWA environmental affairs officer, at (424) 646-6501.

A second round of public information workshops will be conducted early next year to provide information regarding the primary products of the FAR Part 150 Noise Exposure Map Update Study – the 2015 and 2020 Noise Exposure Maps.

As a covered entity under Title II of the Americans with Disabilities Act (ADA), the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services, and activities. Alternative formats in large print, braille, audio, and other forms (if possible) will be provided upon request.

Anyone needing special accommodations under ADA guidelines should contact Larry Rolon, LAWA ADA Coordinator, at (424) 646-5005 at least 72 hours prior to the meeting.

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LAX FAR Part 150 Noise Exposure Map Update

What is a FAR Part 150 Study?

Federal Aviation Regulations (FAR) Part 150, Airport Noise Compatibility Planning, was issued by the Federal Aviation Administration (FAA) as a final rule in January 1985. FAR Part 150 sets forth the methodology and procedures to be followed when preparing aircraft noise exposure maps and developing airport /airport environs land use compatibility programs.

FAR Part 150 studies typically consist of two primary components: (1) the Noise Exposure Map (NEM) report which contains detailed information regarding existing and 5-year future airport/aircraft noise exposure patterns, and (2) the Noise Compatibility Program (NCP) which includes descriptions and an evaluation of noise abatement and noise mitigation options/programs applicable to an airport.

Has LAWA prepared a FAR Part 150 Study for Los Angeles International Airport (LAX)?

Los Angeles World Airports (LAWA) has a long history of implementing noise abatement and mitigation measures at LAX dating back to the late 1950s. In 1981, the Los Angeles City Department of Airports in conjunction with the Los Angeles County Department of Regional Planning and the cities of El Segundo, Hawthorne, and Inglewood undertook an Airport Noise and Land Use Compatibility (ANCLUC) Study to quantify LAX's aircraft noise exposure and to identify measures to mitigate aircraft noise impacts on the noise sensitive land uses surrounding LAX. The ANCLUC study process was the predecessor to the FAR Part 150 process. The LAX ANCLUC process was completed in June 1984. The LAX Noise Exposure Map (NEM) included in the ANCLUC and submitted under FAR Part 150 was accepted by the FAA on October 16, 1984. On April 13, 1985, the FAA issued a record of approval approving 28 of the recommended measures in the LAX NCP.

Why is LAWA updating the FAR Part 150 NEMs for LAX?

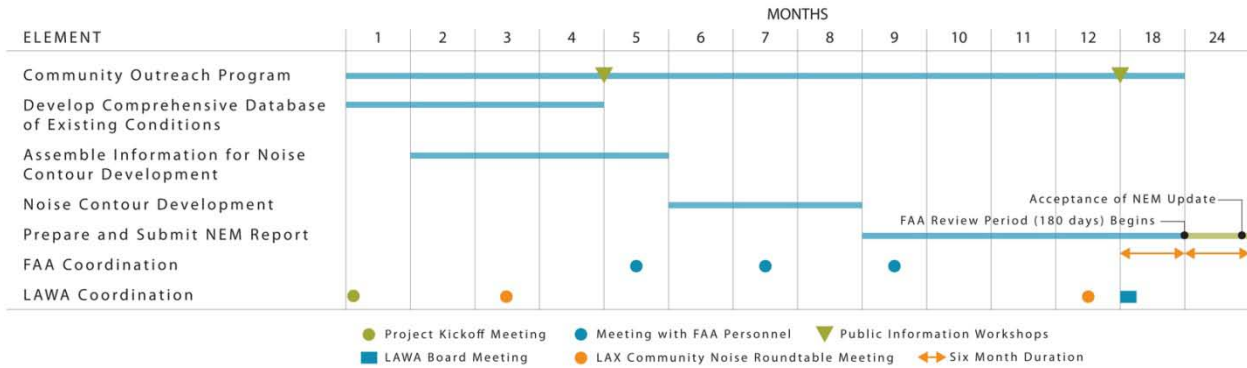
LAWA's goal for this project is to obtain the FAA's acceptance of the new 2015 and 2020 NEMs to ensure that ongoing noise mitigation programs managed by the Cities of Inglewood and El Segundo, and the County of Los Angeles can continue to receive FAA grant funding.

What will LAWA produce during the LAX FAR Part 150 NEM Update?

The LAX FAR Part 150 NEM Update must be prepared in accordance with guidance provided in the FAR Part 150 regulations and the FAR Part 150 NEM Checklist developed by the FAA. As part of the LAX FAR Part 150 NEM Update, LAWA and its consultants will quantify existing (2014/2015) and future (2020) aircraft noise exposure levels in the vicinity of LAX. LAWA will also develop supporting documentation explaining the process used to calculate existing and future aircraft noise levels. The LAX NEM Report update will provide LAWA and the FAA with a new set of NEMs which can be used to identify future noise mitigation needs. During the LAX NEM Report Update, LAWA will not develop or recommend noise abatement or noise mitigation measures, determine the boundaries for future sound insulation programs at LAX, or identify properties that are eligible for sound insulation.

When will the LAX FAR Part 150 NEM Update be completed?

The schedule for the LAX FAR Part 150 NEM Update is presented below. LAWA anticipates the updated NEMs will be approved by the FAA by December 2015.



Where can I get more information?

General information, project reports and public workshop materials, including presentation boards, will be uploaded to the project website at <http://www.lawa.org/LAXPart150.aspx>, as they become available.

How can I get involved?

FAR Part 150 encourages the participation of citizens and public agencies. LAWA will be convening two rounds of public information workshops during the preparation of the updated LAX FAR Part 150 NEM Report. Two public information workshops will be held in May 2014 to introduce the LAX FAR Part 150 NEM Update study. We anticipate that additional public information workshops will be convened in early 2015 to present key study findings.

LAWA is interested in hearing from you if aircraft noise is a concern. Your comments regarding the LAX FAR Part 150 NEM Update can be submitted at the public workshops or by (1) email to laxpart150nemupdate@lawa.org or (2) mailing them to LAWA:

FAR Part 150 NEM Update
 Attn: Kathryn Pantoja, Environmental Affairs Officer
 LAWA Environmental Services Division - Noise Management
 P.O. Box 92216
 Los Angeles, CA 90009-2216

LAX FAR Parte 150 Ruido Exposición de actualización de mapas

¿Qué es un Estudio de FAR Parte 150?

Regulaciones Federales de Aviación (FAR) Parte 150, Aeropuerto de Ruido Planificación de compatibilidad, fue emitida por la Administración de Aviación Federal (FAA) como norma definitiva en Enero de 1985. FAR Parte 150 expone la metodología y los procedimientos que deben seguirse en la preparación de los mapas de exposición al ruido de aviones y el desarrollo de aeropuertos / aeropuertos alrededores programas de compatibilidad de uso del suelo.

FAR Parte 150 estudios típicamente consisten de dos componentes principales: (1) el ruido Mapa de Exposición informe (NEM), que contiene información detallada sobre existente y 5 años futuros patrones de exposición al ruido aeropuerto / avión, y, (2) el Programa de Compatibilidad de Ruido (NCP), que incluye descripciones y una evaluación de la reducción del ruido y el ruido de mitigación opciones / programas aplicables a un aeropuerto.

¿LAWA ha preparado el Estudio FAR Parte 150 del Aeropuerto Internacional de Los Ángeles (LAX)?

Los Ángeles World Airports (LAWA) tiene una larga historia de la aplicación de la reducción del ruido y de las medidas de mitigación en LAX que data a los finales de 1950. En 1981, el Departamento de Aeropuertos en conjunto con el Departamento de Planificación Regional del Condado de Los Ángeles y las ciudades de El Segundo, Hawthorne, y la Ciudad de Inglewood Los Ángeles llevó a cabo un estudio de Ruido en Los Aeropuertos y Uso de la Tierra de Compatibilidad (ANCLUC) para cuantificar la exposición al ruido de aviones de LAX e identificar medidas para mitigar el impacto del ruido de aeronaves en tierra sensible ruido utiliza LAX alrededores. El proceso de estudio ANCLUC fue el predecesor del proceso de FAR Parte 150. El proceso de LAX ANCLUC se completó en Junio de 1984. El mapa de ruido exposición de LAX (NEM) incluido en el ANCLUC y presentado bajo Parte 150 fue aceptado por la FAA el 16 de Octubre de 1984. El 13 de Abril de 1985, la FAA emitió un registro de aprobación aprobar 28 de las medidas recomendadas en el LAX NCP.

¿Por qué es la actualización de LAWA las FAR Parte 150 NEM de LAX?

El objetivo de LAWA para este proyecto es obtener la aceptación de la FAA sobre la nueva 2015 y 2020 NEMs para asegurar que los programas de mitigación de ruido administrados por las ciudades de Inglewood y El Segundo, y el Condado de Los Ángeles pueden continúen recibiendo financiación de la FAA.

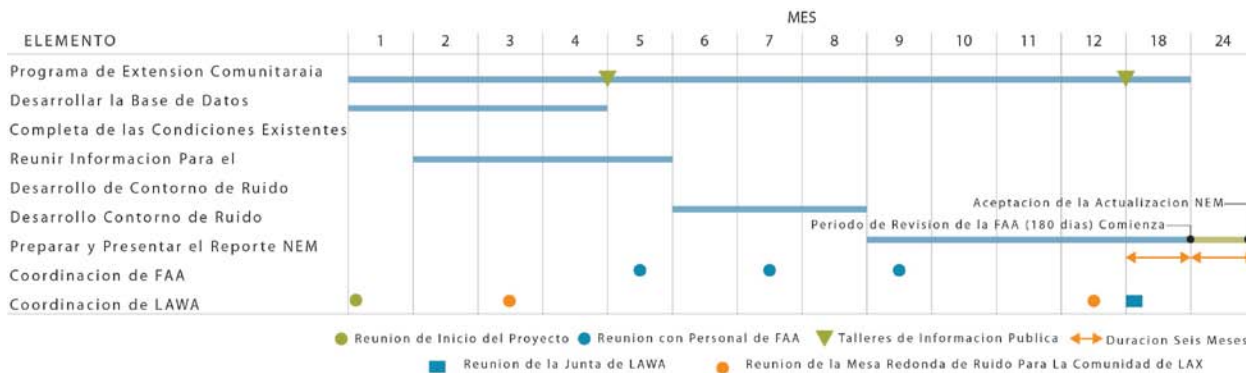
¿Qué va a producir LAWA durante la actualización de NEM LAX FAR Parte 150?

La actualización de NEM LAX FAR Parte 150 debe prepararse de acuerdo con la orientación proporcionada en las FAR Parte 150 reglamentos y la lista de verificación NEM FAR Parte 150 desarrollado por la FAA. Como parte de la actualización de NEM LAX FAR Parte 150, LAWA y sus consultores cuantificar existente (2014/2015) y los niveles de exposición al ruido futuro (2020) las aeronaves en las proximidades de LAX. LAWA también desarrollará la documentación de apoyo para explicar el proceso que se utiliza para calcular los niveles de ruido de las aeronaves existentes y futuras. La actualización de NEM reporte de LAX proporcionará a LAWA y la FAA con un nuevo conjunto de NEMs que se puede utilizar para identificar las necesidades futuras de mitigación del ruido. Durante el NEM LAX Informe de Actualización, LAWA no desarrollar o recomendar

la reducción del ruido o de las medidas de mitigación de ruido, determinar los límites de los programas de aislamiento acústico futuras en LAX, o la identificación de propiedades que son elegibles para el aislamiento acústico.

¿Cuándo se complete la actualización NEM LAX FAR Parte 150?

El horario para la NEM actualización LAX FAR Parte 150 se presenta abajo. LAWA anticipa los NEM actualizados serán aprobados por la FAA antes de Diciembre de 2015.



¿Dónde puedo obtener más información?

Información general, informes de proyectos y materiales para talleres públicos, incluyendo paneles de presentación, se subirán a la página web del proyecto <http://www.lawa.org/LAXPart150.aspx>, a medida que estén disponibles.

¿Cómo puedo participar?

FAR Parte 150 fomenta la participación de los ciudadanos y los organismos públicos. LAWA convocará dos rondas de talleres de información pública durante la preparación del LAX FAR Parte 150 NEM Informe actualizado. Dos talleres de información pública se celebrarán en Mayo de 2014 para presentar el estudio NEM actualización LAX FAR Parte 150. Anticipamos que los talleres de información pública se convocarán a principios de 2015 para presentar las principales conclusiones del estudio.

LAWA está interesado en saber de usted si el ruido de los aviones es una preocupación. Sus observaciones sobre la actualización NEM LAX FAR Parte 150 pueden ser presentadas en los talleres públicos o por (1) correo electrónico a laxpart150nemupdate@lawa.org o (2) correo a LAWA:

FAR Parte 150 NEM actualización
 Attn: Kathryn Pantoja, Environmental Affairs Officer
 LAWA Environmental Services Division - Noise Management
 P.O. Box 92216
 Los Angeles, CA 90009-2216



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FAR Part 150 Noise Exposure Map Update Study
Los Angeles International Airport

Public Information Workshop
May 12, 2014 (6:00 p.m. – 8:00 p.m.)
Jessie Owens Community Regional Park Gymnasium

Sign-In Sheet

Name/Organization	Address	Phone or Email
Hazel Ferron	[Redacted] LA, CA 90047	[Redacted]
Sonia French-Pitts - Compton St. Neighborhood Watch	[Redacted] LA 90047	[Redacted]
Linda Mernay	[Redacted] LA 90044	[Redacted]
Bernard + Sandra Washurst	[Redacted], LA. 900	[Redacted]
Gloria Wilson	[Redacted] LA 90044	[Redacted]
Jack Wilson	[Redacted] LA 90044	[Redacted]
Dmas Polido	[Redacted] LAX, LA, CA 90046	[Redacted]
Joseph McCall	[Redacted]	[Redacted]
Allison Jackson	[Redacted]	[Redacted]
Jim Withrow	[Redacted] Inglewood 90302	[Redacted]
Paul Heniaw	[Redacted], LA, CA 90044	[Redacted]
Clint Simmons	[Redacted]	[Redacted]
Lorena Green	[Redacted] LA CA 90047	[Redacted]

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FAR Part 150 Noise Exposure Map Update Study
 Los Angeles International Airport

Public Information Workshop
 May 12, 2014 (6:00 p.m. – 8:00 p.m.)
 Jessie Owens Community Regional Park Gymnasium

Sign-In Sheet

F-14

Name/Organization	Address	Phone or Email
Esther May	Inglewood 90303	
Idorlph Edwards	LA 90047	
Hamilton Cloud	LA 90003	
Linda J. WARE	LA 90047	
Joyce Alexander	Inglewood 90303	
Wiley Williams	LA 90047	
Violetta Price	90047	
Michael Flowers	L.A 90044	
Linda Sanders	LA 90044	
LILIANA MATLOCK	L.A 90044	
Mayra Mancilla	LA 90044	
Faye Skipwith	LA CA 90047	
Michael W. Jones	LA CA 90047-3517	
Christine Wood	Inglewood CA 90305	
Charles Ashley		
Georgiana Street ^(LAWA)	LA 90045	
DEBORAH Smith	CA 90047	



FAR Part 150 Noise Exposure Map Update Study
Los Angeles International Airport

Public Information Workshop
May 13, 2014 (6:00 p.m. – 8:00 p.m.)
Flight Path Learning Center and Museum

Sign-In Sheet

Name/Organization	Address	Phone or Email
LACDC/Mercy Cavazos	Alhambra 91801	
Corsoil David	Los Angeles, CA 90044	
Vicora Global	Lawndale, CA	
JEFF SIBLEY	LOS ALAMITOS AAF	
Danna Cope	Westchester CA 90045	
SUZANNE WREN	El Segundo	
PETER GARDNER	Playa Del Rey	
JACQUELINE HAMILTON	L.A. CA 90009	
JOHN RICHTMANN	Inglewood	
BETTY G. FEITH	Inglewood	
Oliver Pulido		
Carolyn & Mac Billups	L.A, CA 90047	
CRAIG EGGERS	90293	
John McCarty	Inglewood 90303	
LYNNE PAXTON	BEVERLY HILLS 90213	

F-15

X



Los Angeles
World Airports

FAR Part 150 Noise Exposure Map Update Study
Los Angeles International Airport

Public Information Workshop
May 13, 2014 (6:00 p.m. – 8:00 p.m.)
Flight Path Learning Center and Museum

Sign-In Sheet

Name/Organization	Address	Phone or Email
Marina DeLorenz	[REDACTED] LA 90039	[REDACTED]
CARL JACOBS	[REDACTED] E.S.	
Petra Schneider	[REDACTED] RPV 90275	
Michelle Hicks	[REDACTED] INGLEWOOD CA 90305	



Welcome!

Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update

Public Information Workshop #1

May 2014



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Project Overview

- Los Angeles World Airports (LAWA) has initiated an update of the Federal Aviation Regulations (FAR) Part 150 Noise Exposure Map (NEM) report for LAX
- The Alta Environmental Team has been selected by LAWA to prepare the LAX Part 150 NEM report
- 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



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

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 2015 LAX Master Plan Alternative D Community Noise Equivalent Level (CNEL) contours for funding current LAX sound insulation programs



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Project Overview

- The NEM report must be prepared in accordance with the guidance provided in FAR Part 150
- FAR 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 will produce NEMs for 2015 and 2020



**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

Project Overview

- This LAX NEM report update is not an airport master plan update, FAR Part 161 Study, FAR Part 150 Noise Compatibility Program Update, and is not related to other ongoing studies
- The project team will develop an aircraft operations and fleet mix forecast for FAA’s review and approval
- The project team will consider completed and ongoing planning and environmental studies to ensure noise modeling assumptions are reflective of existing conditions and anticipated conditions in 2020
- The 2020 NEM must be based on “reasonably foreseeable” assumptions regarding future operations at LAX



**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

The LAX NEM Report Update Will:

- Quantify existing and future aircraft noise exposure levels in the vicinity of LAX
- Provide the FAA and LAWA with a new set of NEMs to assess future noise mitigation needs

During The LAX NEM Report Update LAWA Will Not:

- Develop or recommend noise abatement or noise mitigation measures designed to minimize aircraft noise impacts
- Determine the sound insulation program boundaries
- Identify properties that are eligible for sound insulation



**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

Who Can Regulate Airport Noise?

- **Federal Aviation Administration**
 - Controls aircraft while in flight
 - Responsible for controlling noise at its source (i.e., aircraft engines)
 - Certifies aircraft and pilots
- **Airport Proprietors/LAWA**
 - Limited authority to adopt local restrictions
 - Responsible for capital improvement projects and infrastructure
- **Local Governments and States**
 - Promote compatible land use through zoning
 - Require real estate disclosure
 - Mandate sound-insulating building materials



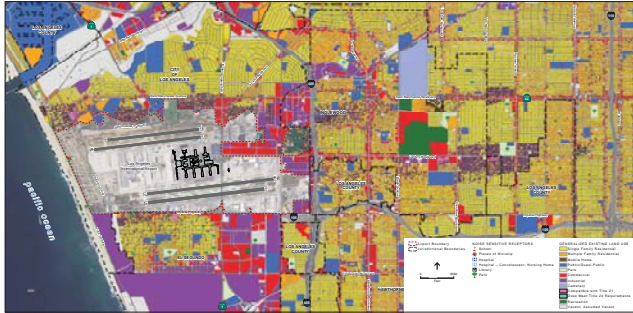
**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

Existing Facilities



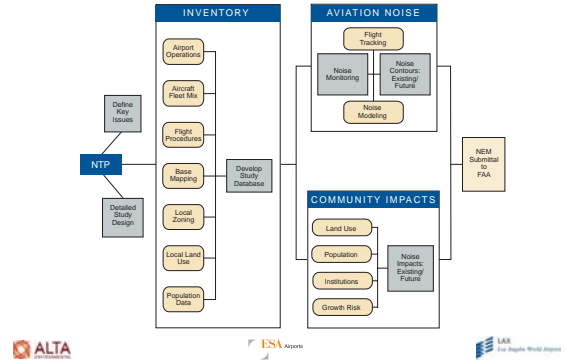
**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

Existing Land Uses in the Study Area



**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

FAR Part 150 NEM Update Process



**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

FAR Part 150 Terminology

Noise Exposure Contours

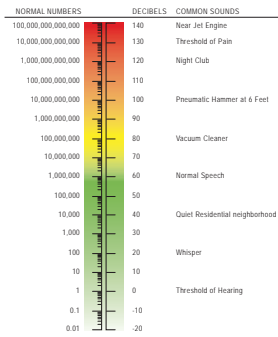
A noise exposure contour identifies areas of equal noise exposure around an airport. Noise exposure contours are similar to contours on topographic maps which show areas of equal elevation.

Noise Exposure Maps or NEMs

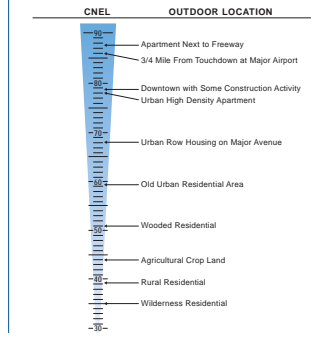
A noise exposure map is a map showing noise exposure contour lines (or footprints) which identify areas of specific noise levels around an airport. NEMs also include a graphic depiction of geographical features and land uses that surround an airport.

**Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update**

The Decibel Scale

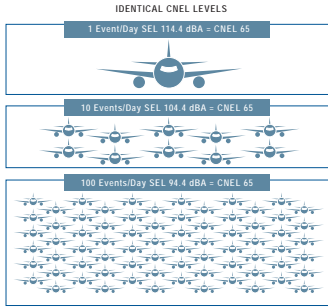
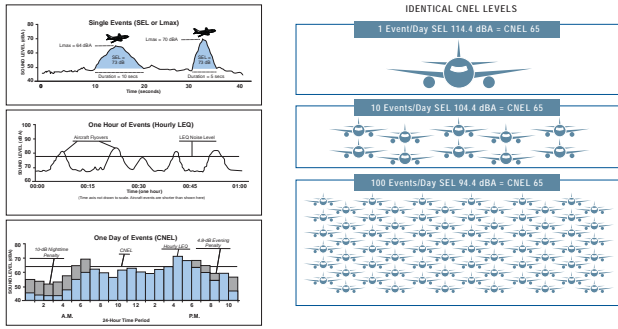


Sample CNEL Values



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Aircraft Noise Levels



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

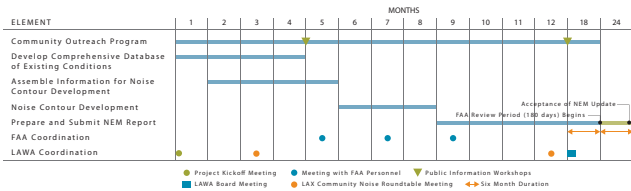
Day-Night Average Sound Level (DNL) and Community Noise Equivalent Level (CNEL)

DNL	CNEL	Description
✓	✓	24-hour time-weighted energy average noise level measured in dBA
✓	✓	Captures the noise exposure for individual aircraft noise events during the course of a 24-hour day
✓	✓	Noise occurring between 7 p.m. to 10 p.m. is penalized by approximately 4.8 dB - Penalty was selected to account for the sensitivity to aircraft noise and activity interference during the evening hours
✓	✓	Noise occurring between 10 p.m. to 7 a.m. is penalized by 10 dB - Penalty was selected to account for the higher sensitivity to aircraft noise and lower background noise levels during nighttime hours
✓	✓	Specified in Title 21 of the California Airport Noise Regulations and required for use in the development of aircraft noise exposure contours
✓	✓	Specified in 14 CFR Part 150 and required for use in the development of aircraft noise exposure contours (FAA permits the use of CNEL for noise studies in California)
✓	✓	Demonstrates a strong relationship between increased aircraft noise and increased human annoyance



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Project Schedule



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DECLARATION

I am a resident of Los Angeles County, over the age of eighteen years and not a party to any or interested in the matter noticed.

The notice, of which the annexed is a printed copy appeared in the:

L.A. TIMES

On the following dates:

April 23, 2015

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at Los Angeles, California, this

23rd day of April 2015



Signature

2740777

"The only Public Notice which is justifiable from the standpoint of true economy and the public interest, is that which reaches those who are affected by it"

**NOTICE OF PUBLIC INFORMATION WORKSHOPS
To Present the Draft Federal Aviation Regulation
(FAR) Part 150 Noise Exposure Map Update Report
for Los Angeles International Airport**

Los Angeles World Airports (LAWA) will be hosting two (2) public information workshops in May 2015 to provide information regarding the Federal Aviation Regulation (FAR) Part 150 Noise Exposure Map Update Study for Los Angeles International Airport. The workshops will include guided displays that will present information regarding the FAR Part 150 Noise Exposure Map Update study process, the project schedule, noise metrics, current and forecast aircraft traffic conditions, and methods used to quantify aircraft noise exposure. Existing and future noise contour maps for Los Angeles International Airport will also be presented at the workshops.

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- Monday, May 11, 2015 - Flight Path Learning Center and Museum
8661 West Imperial Highway
Los Angeles, CA 90045
- Tuesday, May 12, 2015 - Jesse Owens Community Regional Park Gymnasium
9651 S. Western Avenue
Los Angeles, CA 90047

For more information, please visit the project website at: <http://www.lawa.org/LAXPart150.aspx>

Anyone needing special accommodations under the Americans with Disabilities Act of 1990 should contact Larry Rolon, LAWA ADA Coordinator, at (424) 646-5005 at least 72 hours prior to the meeting. Anyone with questions about the project should contact Ms. Kathryn Pantoja at (424) 646-6501.

Asistencia en español estará disponible en las reuniones.

4/23/15



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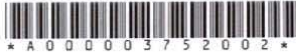
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County of Los Angeles**

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of THE DAILY BREEZE, a newspaper of general circulation, printed and published in the City of Torrance*, County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of County of Los Angeles, State of California, under the date of June 10, 1974, Case Number SWC7146. The notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

4/23/2015

I certify (or declare) under the penalty of perjury that the foregoing is true and correct.

Dated at Torrance, California
On this 24th day of April, 2015.

Signature

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NOTICE OF PUBLIC INFORMATION WORKSHOPS
To Present the Draft Federal Aviation Regulation (FAR) Part 150 Noise Exposure Map Update Report for Los Angeles International Airport

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For more information, please visit the project website at: <http://www.lawa.org/LAXPart150.aspx>

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Asistencia en español estará disponible en las reuniones.

4/23/15
CNS-2740786#
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From: CHAN, DAVID <DCHAN@lawa.org>
Sent: Tuesday, April 28, 2015 7:13 AM
Subject: Public Workshops for LAX Part 150 Noise Exposure Map Update



NOTICE OF PUBLIC INFORMATION WORKSHOPS

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9651 S. Western Avenue
Los Angeles, CA 90047

For more information, please visit the project website: <http://www.lawa.org/LAXPart150.aspx?id=8526>

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Asistencia en español estará disponible en las reuniones.

LAX FAR Part 150 Noise Exposure Map Update

What is a FAR Part 150 Study?

Federal Aviation Regulations (FAR) Part 150, Airport Noise Compatibility Planning, was issued by the Federal Aviation Administration (FAA) as a final rule in January 1985. FAR Part 150 sets forth the methodology and procedures to be followed when preparing aircraft noise exposure maps and developing airport /airport environs land use compatibility programs.

FAR Part 150 studies typically consist of two primary components: (1) the Noise Exposure Map (NEM) report which contains detailed information regarding existing and 5-year future airport/aircraft noise exposure patterns, and (2) the Noise Compatibility Program (NCP) which includes descriptions and an evaluation of noise abatement and noise mitigation options/programs applicable to an airport.

Has LAWA prepared a FAR Part 150 Study for Los Angeles International Airport (LAX)?

Los Angeles World Airports (LAWA) has a long history of implementing noise abatement and mitigation measures at LAX dating back to the late 1950s. In 1981, the Los Angeles City Department of Airports in conjunction with the Los Angeles County Department of Regional Planning and the cities of El Segundo, Hawthorne, and Inglewood undertook an Airport Noise and Land Use Compatibility (ANCLUC) Study to quantify LAX's aircraft noise exposure and to identify measures to mitigate aircraft noise impacts on the noise sensitive land uses surrounding LAX. The ANCLUC study process was the predecessor to the FAR Part 150 process. The LAX ANCLUC process was completed in June 1984. The LAX Noise Exposure Map (NEM) included in the ANCLUC and submitted under FAR Part 150 was accepted by the FAA on October 16, 1984. On April 13, 1985, the FAA issued a record of approval approving 28 of the recommended measures in the LAX NCP.

Why is LAWA updating the FAR Part 150 NEMs for LAX?

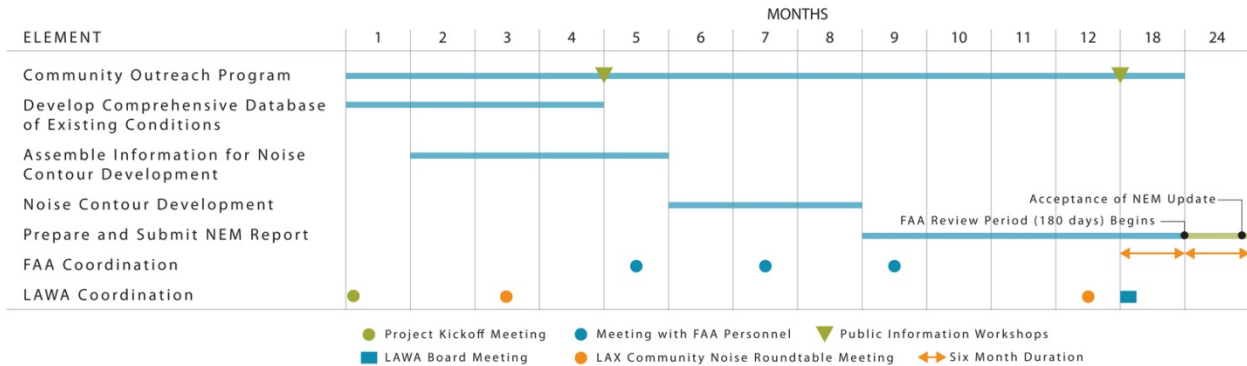
LAWA's goal for this project is to obtain the FAA's acceptance of the new 2015 and 2020 NEMs to ensure that ongoing noise mitigation programs managed by the Cities of Inglewood and El Segundo, and the County of Los Angeles can continue to receive FAA grant funding.

What will LAWA produce during the LAX FAR Part 150 NEM Update?

The LAX FAR Part 150 NEM Update must be prepared in accordance with guidance provided in the FAR Part 150 regulations and the FAR Part 150 NEM Checklist developed by the FAA. As part of the LAX FAR Part 150 NEM Update, LAWA and its consultants have calculated existing (2015) and future (2020) aircraft noise exposure levels in the vicinity of LAX. LAWA will also develop supporting documentation explaining the process used to calculate existing and future aircraft noise levels. The LAX NEM Report update will provide LAWA and the FAA with a new set of NEMs which can be used to identify future noise mitigation needs. During the LAX NEM Report Update, LAWA will not develop or recommend noise abatement or noise mitigation measures, determine the boundaries for future sound insulation programs at LAX, or identify properties that are eligible for sound insulation.

When will the LAX FAR Part 150 NEM Update be completed?

The schedule for the LAX FAR Part 150 NEM Update is presented below. LAWA anticipates the updated NEMs will be submitted to the FAA in July 2015.



Where can I get more information?

The Draft Noise Exposure Map Report has been uploaded to the project website at <http://www.lawa.org/LAXPart150.aspx>. Other materials including presentation boards from this workshop will be uploaded to the project website later this month.

How can I get involved?

FAR Part 150 encourages the participation of citizens and public agencies. LAWA convened two public information workshops in May 2014 to introduce the LAX FAR Part 150 NEM Update study. A second round of public information workshops are being conducted in May 2015 to present key findings from the study.

LAWA is interested in hearing from you if aircraft noise is a concern. Your comments regarding the LAX FAR Part 150 NEM Update can be submitted at the public workshops or by (1) email to laxpart150nemupdate@lawa.org or (2) mailing them to LAWA:

FAR Part 150 NEM Update
 Attn: Kathryn Pantoja, Environmental Affairs Officer
 LAWA Environmental and Land Use Planning Division - Noise Management
 P.O. Box 92216
 Los Angeles, CA 90009-2216

Los Angeles International Airport (LAX) Actualización del Mapa de exposición al ruido (Noise Exposure Map, NEM) en virtud de la FAR Parte 150

¿Qué es un Estudio de FAR Parte 150?

La Parte 150 de Las Regulaciones Federales de Aviación (FAR), Planificación de la Compatibilidad de Ruido del Aeropuerto, fue emitida por la Administración de Aviación Federal (FAA) como norma definitiva en enero de 1985. La FAR Parte 150 expone la metodología y los procedimientos que deben seguirse en la preparación de los mapas de exposición al ruido de aviones y en el desarrollo de programas de compatibilidad para el uso del suelo de los aeropuertos y alrededor.

Estudios de las FAR Parte 150 usualmente consisten en dos componentes principales: (1) el Informe del Mapa de Exposición al ruido (NEM), que contiene información detallada sobre patrones de exposición al ruido del aeropuerto y de los aviones existentes y a 5 años en el futuro, y (2) el Programa de Compatibilidad de Ruido (NCP), que incluye descripciones y una evaluación de la reducción del ruido y de las opciones/programas de mitigación del ruido aplicables a un aeropuerto.

¿LAWA ha preparado un Estudio FAR Parte 150 del Aeropuerto Internacional de Los Ángeles (LAX)?

Los Angeles World Airports (LAWA) tiene una larga historia de medidas de reducción y de mitigación de ruido en LAX, que data de finales de 1950. En 1981, el Departamento de Aeropuertos de Los Ángeles en conjunto con el Departamento de Planificación Regional del Condado de Los Ángeles y las ciudades de El Segundo, Hawthorne, y Inglewood llevó a cabo un Estudio de Ruido del Aeropuerto y de Compatibilidad del Uso del Suelo (ANCLUC). Este estudio cuantificó la exposición al ruido de aviones de LAX e identificó medidas para mitigar el impacto del ruido de aeronaves en tierras sensibles al ruido alrededor de LAX. El proceso del estudio ANCLUC fue el predecesor del proceso de FAR Parte 150. El proceso ANCLUC de LAX se completó en junio de 1984. El mapa de exposición al ruido (NEM) de LAX, incluido en el ANCLUC y presentado bajo la Parte 150, fue aceptado por la FAA el 16 de octubre de 1984. El 13 de abril de 1985, la FAA emitió un registro de aprobación aprobando 28 de las medidas recomendadas en el NCP de LAX.

¿Por qué LAWA está actualizando los NEMs de la FAR Parte 150 de LAX?

El objetivo de LAWA para este proyecto es obtener la aceptación de la FAA sobre los nuevos NEMs de 2015 y 2020 para asegurar que los programas de mitigación de ruido administrados por las ciudades de Inglewood y El Segundo, y por el Condado de Los Ángeles sigan siendo elegibles para recibir fondos de la FAA.

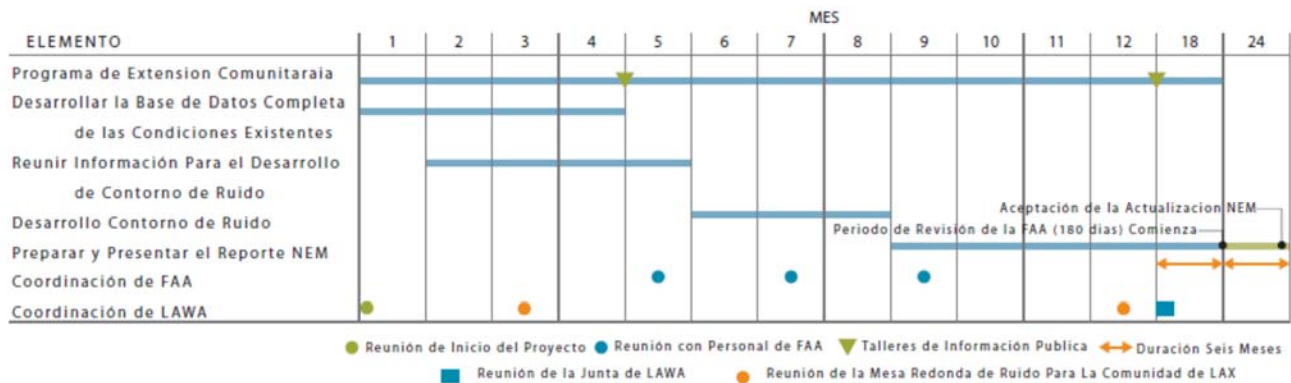
¿Qué va a producir LAWA durante la actualización de los NEMs de LAX de la FAR Parte 150?

La actualización de los NEMs de LAX FAR Parte 150 debe prepararse de acuerdo con las directrices proporcionadas en las regulaciones FAR Parte 150 y la lista de verificación NEM FAR Parte 150 desarrollado por la FAA. En el contexto de la actualización de NEM de LAX FAR Parte 150, LAWA y sus consultores cuantificaron los niveles de exposición al ruido de las aeronaves existentes (2015) y del futuro (2020) en las

proximidades de LAX. LAWA también desarrollará la documentación de apoyo para explicar el proceso que se utiliza para calcular los niveles de ruido de las aeronaves existentes y futuras. La actualización del informe NEM de LAX proporcionará a LAWA y a la FAA con un nuevo conjunto de NEMs que se puede utilizar para identificar las necesidades futuras de mitigación del ruido. Durante la Actualización de los NEMs de LAX, LAWA no va a desarrollar ni recomendar ninguna medida de reducción del ruido o de mitigación de ruido, no determinará los límites de los programas de aislamiento acústico futuras en LAX, y no identificará propiedades que sean elegibles para el aislamiento acústico.

¿Cuándo se finalizará la actualización de los NEMs de LAX de la FAR Parte 150?

El horario para la actualización de los NEMs de LAX de la FAR Parte 150 se presenta abajo. LAWA anticipa que los NEMs actualizados serán presentados a la FAA en julio del 2015.



¿Dónde puedo obtener más información?

El plan preliminar de **Actualización del Mapa de exposición al ruido (NEM)** se puede encontrar en la página web del proyecto, <http://www.lawa.org/LAXPart150.aspx>. Otros materiales, incluidos los paneles de presentación de este taller, se subirán a la página web del proyecto más tarde en el mes.

¿Cómo puedo participar?

La FAR Parte 150 fomenta la participación de los ciudadanos y las agencias públicas. LAWA convocó dos rondas de talleres de información pública durante mayo 2014 para introducir la Actualización de los NEMs de LAX. Dos talleres de información pública se llevarán a cabo en mayo de 2015 para presentar los resultados más importantes del estudio.

LAWA está interesado en saber de usted si el ruido de los aviones es una preocupación. Sus observaciones sobre la actualización de los NEMs de LAX de FAR Parte 150 pueden ser presentadas en los talleres públicos o por (1) correo electrónico a laxpart150nemupdate@lawa.org o (2) por correo a LAWA:

FAR Parte 150 NEM actualización
 Attn: Kathryn Pantoja, Environmental Affairs Officer
 LAWA Environmental and Land Use Planning Division - Noise Management
 P.O. Box 92216
 Los Angeles, CA 90009-2216



Los Angeles
World Airports

FAR Part 150 Noise Exposure Map Update Study
Los Angeles International Airport

Public Information Workshop #2
May 11, 2015 (6:00 p.m. – 8:00 p.m.)
Flight Path Learning Center and Museum

Sign-In Sheet

Name/Organization	Address	Phone or Email
Steve Alverson - ESA	Sacramento, CA 95816	[REDACTED]
Adrian Jones - ESA	San Francisco, CA 94108	[REDACTED]
DAVID SCHACK - ALTA	Lone Beach, CA 90807	[REDACTED]
Rose Cote	LAWA	[REDACTED]
Carl Jacobson	Gr 564890	[REDACTED]
John Keho	Los Angeles 90008	[REDACTED]
ESDISSIA	Los Angeles, CALIF 90049	[REDACTED]
KATHRYN PANTOSA	LAWA	[REDACTED]
Joanne Choi	LAWA	[REDACTED]
Dan Yeh	-	[REDACTED]
Scott Tark	LAWA	[REDACTED]
Georganna Streete	LAWA	[REDACTED]



Los Angeles
World Airports

FAR Part 150 Noise Exposure Map Update Study
Los Angeles International Airport

Public Information Workshop #2
May 12, 2015 (6:00 p.m. – 8:00 p.m.)
Jesse Owens Community Regional Park Gymnasium

Sign-In Sheet

Name/Organization	Address	Phone or Email
Sonia French ^{Gmarca} Street Neighborhood Watch President	[Redacted] LA 90047	[Redacted]
Desmond Woolfolk	[Redacted] Wilmington CA 90748	[Redacted]
Allison Jackson	[Redacted]	[Redacted]
Betty Griffith	[Redacted] 90305	[Redacted]
Steve Hueson/ESA	Sacramento, CA 95816	[Redacted]
David Scott	[Redacted] WCA 90607	[Redacted]
Darrell Summerville	[Redacted] L.A. Ca 90047	[Redacted]
GERALD BUTLER	[Redacted] LA CA 90044	[Redacted]
KATHRYN PANTOJA	LAWA	[Redacted]
Joanne Choi	LAWA	[Redacted]
DAN YEUNG	LAWA	[Redacted]
Scott Park	LAWA	[Redacted]
Georgiana Streets	LAWA	[Redacted]



Welcome!

Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update
Public Information Workshop #2

May 11, 2015



Welcome!

Los Angeles International Airport
FAR Part 150 Noise Exposure Map Report Update
Public Information Workshop #2

May 12, 2015



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Noise Modeling Assumptions

- Existing (2015) Conditions Noise Exposure Map
 - Based on 2013 annual operations – 614,917
 - Aircraft fleet mix based on Airport Noise and Operations Management System (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



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Noise Modeling Assumptions

- Future (2020) Conditions Noise Exposure Map
 - 705,254 annual operations in 2020
 - Aircraft fleet mix updated based on information contained in approved LAX environmental studies
 - Runway Use, time of day, and flight tracks assumed to be similar to 2015
 - Considered impact of runway safety area improvements for Runways 7L-25R and 6R-24L



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

2020 Time of Day

**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%
All Aircraft¹	66.60%	19.63%	13.78%	100.00%	69.51%	11.49%	19.00%	100.00%

NOTES:
Day (7 a.m. to 7 p.m.); Evening (7 p.m. to 10 p.m.); Night (10 p.m. to 7 a.m.)
Values may not sum to 100% due to rounding.
¹ Does not include helicopter operations
SOURCE: ESA Airports, October 2014.



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

2015 Runway Use

**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%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

NOTES:
Day (7 a.m. to 7 p.m.); Evening (7 p.m. to 10 p.m.); Night (10 p.m. to 7 a.m.)
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.



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

2020 Runway Use

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

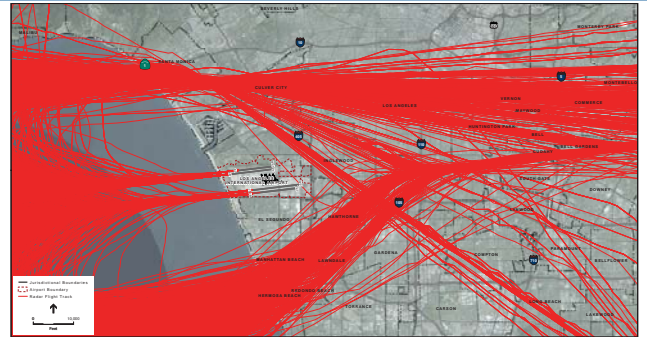
Runway	Arrival			Departure		
	Day	Evening	Night	Day	Evening	Night
06L	0.48%	0.23%	3.38%	0.02%	0.01%	0.01%
06R	0.01%	0.00%	15.00%	0.45%	0.26%	0.24%
07L	0.01%	0.01%	4.90%	0.55%	0.28%	0.50%
07R	0.53%	0.28%	3.17%	0.01%	0.01%	0.17%
24L	1.58%	2.39%	1.43%	44.22%	42.15%	28.55%
24R	46.53%	47.21%	34.12%	1.50%	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%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

NOTES:
Day (7 a.m. to 7 p.m.); Evening (7 p.m. to 10 p.m.); Night (10 p.m. to 7 a.m.)
Values may not sum to 100% due to rounding.
Does not include helicopter operations
SOURCE: ESA Airports, October 2014.



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Arrival Flight Tracks – Runways 6 and 7



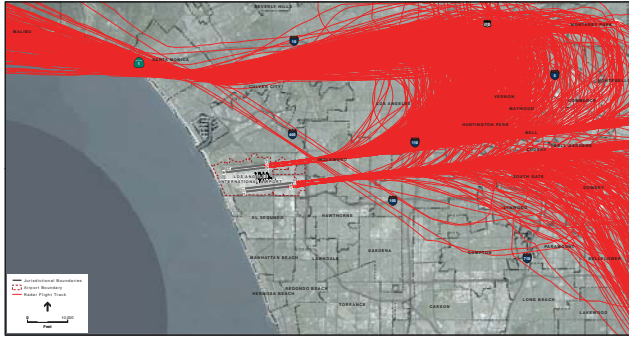
Los Angeles International Airport 11/27/14 10:58 AM 2012-2013
SOURCE: LAX Airports and Operations Management System, 2013, LAX, 2014, City of LAX, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100

Runway Flight Tracks – Arrivals from the West Exhibit C-2



Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

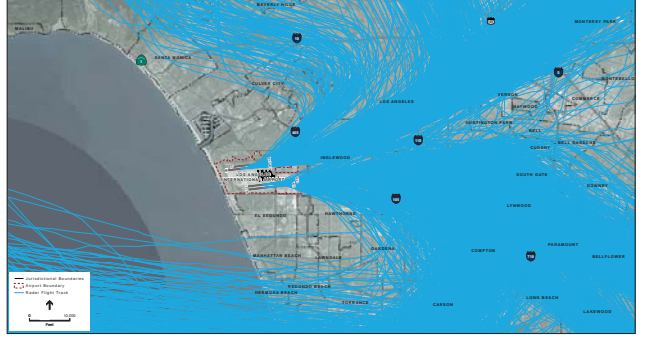
Arrival Flight Tracks – Runways 24 and 25



Los Angeles International Airport FAR Part 150 Report Update
Exhibit C-1
Radar Flight Tracks – Arrivals from the East
ALTA
ESA Airports
LAX
Los Angeles World Airports

Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

Departure Flight Tracks – Runways 6 and 7



Los Angeles International Airport FAR Part 150 Report Update
Exhibit C-2
Radar Flight Tracks – Departures to the East
ALTA
ESA Airports
LAX
Los Angeles World Airports

Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

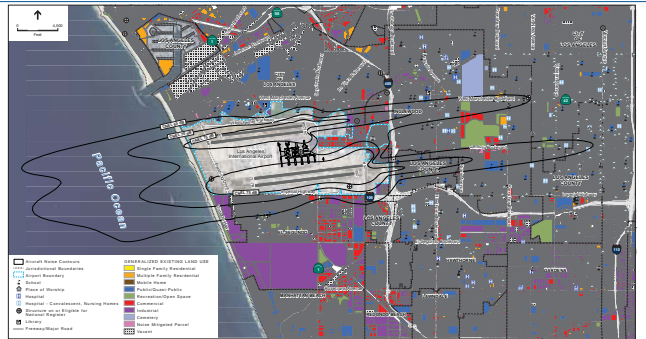
Departure Flight Tracks – Runways 24 and 25



Los Angeles International Airport FAR Part 150 Report Update
Exhibit C-4
Radar Flight Tracks – Departures to the West
ALTA
ESA Airports
LAX
Los Angeles World Airports

Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

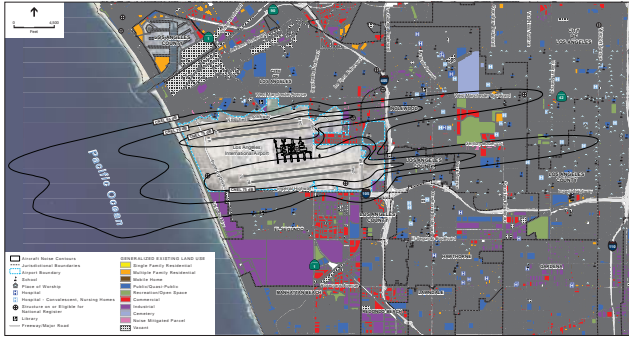
2015 Noise Exposure Map



Los Angeles International Airport FAR Part 150 Report Update
Exhibit S-1
2015 Noise Exposure Map – Los Angeles International Airport
ALTA
ESA Airports
LAX
Los Angeles World Airports

Los Angeles International Airport FAR Part 150 Noise Exposure Map Report Update

2020 Noise Exposure Map



Los Angeles International Airport FAR Part 150 Noise Exposure Map - 2020 Noise Exposure Map - Los Angeles International Airport





Draft Noise Exposure Map Report Available for Public Review

Los Angeles World Airports (LAWA) has completed a Draft Noise Exposure Map Report for Los Angeles International Airport. The Draft Noise Exposure Map Report has been uploaded to the project website at <http://www.lawa.org/LAXPart150.aspx>. Printed copies of the Draft Noise Exposure Map Report are available for public review at the following locations:

Library	Address
Westchester – Loyola Village Branch Library	7114 W. Manchester Ave., Los Angeles, CA
El Segundo Public Library	111 W. Mariposa Ave., El Segundo, CA
Inglewood Main Library	101 W. Manchester Blvd., Inglewood, CA
Lennox Library	4359 Lennox Blvd., Lennox, CA
Mark Twain Library	9621 S. Figueroa St., Los Angeles, CA

LAWA is interested in hearing from you if aircraft noise is a concern. Your comments regarding the Draft Noise Exposure Map Report can be submitted on the comment forms available at this public workshop or by (1) email to laxpart150nemupdate@lawa.org or (2) mailing them to LAWA:

FAR Part 150 NEM Update
 Attn: Kathryn Pantoja, Environmental Affairs Officer
 LAWA Environmental and Land Use Planning Division - Noise Management
 P.O. Box 92216
 Los Angeles, CA 90009-2216

Comments regarding the Draft Noise Exposure Map Report will be accepted until June 9, 2015.



LAX

*Los Angeles
World Airports*

**Capital Planning, Programming and Engineering Group
Environmental and Land Use Planning Division
Noise Management**

Receipt of Delivery

**PROJECT: Title 14 Code of Federal Regulations Part 150
Noise Exposure Map Update Study for Los Angeles International Airport**

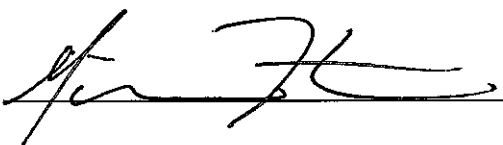
DOCUMENTS ATTACHED:

- **Draft Noise Exposure Map Update for Los Angeles International Airport**
- **Appendix I, Draft Noise Exposure Map Update for Los Angeles International Airport**

DELIVER TO:

Westchester-Loyola Village Branch Library
Attention: Branch Manager/Librarian
7114 W. Manchester Ave.
Los Angeles, CA 90045

Documents delivered on: 5/12/15

Received by:  Miriam Touchkin



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*Los Angeles
World Airports*

**Capital Planning, Programming and Engineering Group
Environmental and Land Use Planning Division
Noise Management**

Receipt of Delivery

**PROJECT: Title 14 Code of Federal Regulations Part 150
Noise Exposure Map Update Study for Los Angeles International Airport**

DOCUMENTS ATTACHED:

- **Draft Noise Exposure Map Update for Los Angeles International Airport**
- **Appendix I, Draft Noise Exposure Map Update for Los Angeles International Airport**

DELIVER TO:

El Segundo Public Library
Attention: Julie Todd
111 W. Mariposa Ave
El Segundo, CA 90245

Documents delivered on: 5/12/15

Received by: Julie Todd



LAX
Los Angeles
World Airports

**Capital Planning, Programming and Engineering Group
Environmental and Land Use Planning Division
Noise Management**

Receipt of Delivery

**PROJECT: Title 14 Code of Federal Regulations Part 150
Noise Exposure Map Update Study for Los Angeles International Airport**

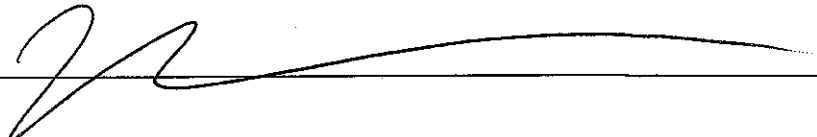
DOCUMENTS ATTACHED:

- **Draft Noise Exposure Map Update for Los Angeles International Airport**
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DELIVER TO:

Inglewood Main Library
Attention: Joe Rane
101 W. Manchester Blvd.
Inglewood, CA 90301

Documents delivered on: 12 MAY 2005

Received by: 



LAX

*Los Angeles
World Airports*

**Capital Planning, Programming and Engineering Group
Environmental and Land Use Planning Division
Noise Management**

Receipt of Delivery

**PROJECT: Title 14 Code of Federal Regulations Part 150
Noise Exposure Map Update Study for Los Angeles International Airport**

DOCUMENTS ATTACHED:

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- **Appendix I, Draft Noise Exposure Map Update for Los Angeles International Airport**

DELIVER TO:

Lennox Library
Attention: Branch Manager/Librarian
4359 Lennox Blvd.
Lennox, CA 90304

Documents delivered on: _____

5/12/15

Received by: _____

Norma Cuevas Norma Cuevas



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*Los Angeles
World Airports*

**Capital Planning, Programming and Engineering Group
Environmental and Land Use Planning Division
Noise Management**

Receipt of Delivery

**PROJECT: Title 14 Code of Federal Regulations Part 150
Noise Exposure Map Update Study for Los Angeles International Airport**

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DELIVER TO:

Mark Twain Library
Attention: Branch Manager/Librarian
9621 S Figueroa St.
Los Angeles, CA 90003

Documents delivered on: 5/12/15

Received by: SKR

SENZLE RIOS
323 755-4088



LAX Community Noise Roundtable

LAX Part 150 Noise Exposure Map Update Project Briefing #1

March 12, 2014



LAX Part 150 Noise Exposure Map Update

Overview

- LAWA has initiated an update of the Federal Aviation Regulations (FAR) Part 150 Noise Exposure Map (NEM) for LAX
- Late in 2013 the Alta Environmental Team was selected by LAWA to prepare the LAX Part 150 NEM Update. Alta Environmental is a local, small business enterprise
- ESA Airports is serving as a subconsultant to Alta on the NEM Update preparation work including the aircraft noise modeling
- The goal is to submit updated NEMs for LAX to the FAA in 2015
- FAA requires LAWA to update the LAX NEMs to ensure continued sound insulation funding eligibility



LAX Part 150 Noise Exposure Map Update

Specifics

- LAWA developed NEMs 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 NEM 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 contours for funding current LAX sound insulation programs
- The Alt. D contours represent the aircraft noise exposure in terms of the Community Noise Equivalent Level (CNEL) for calendar year 2015 forecast aircraft operations at LAX



LAX Part 150 Noise Exposure Map Update

Requirements

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





LAX Part 150 Noise Exposure Map Update

Requirements (cont.)

- The noise contours must be depicted using DNL or CNEL and must be representative of the annual average day
- FAR Part 150 deems noise sensitive land uses exposed to noise levels above 65 DNL or CNEL to be incompatible with noise from aircraft operations
- Once submitted, FAA reviews the NEM report and either accepts or rejects the NEMs



LAX Part 150 Noise Exposure Map Update

This is a Stand Alone Effort

- This LAX NEM Update is not an airport master plan update, FAR Part 161 Study, nor a FAR Part 150 Noise Compatibility Program Update, and is not related to other ongoing studies
- The project team will develop an aircraft operations and fleet mix forecast for FAA's review and approval
- The project team will consider completed and ongoing planning and environmental studies to ensure noise modeling assumptions (e.g., airfield layout, runway use, aircraft fleet mix, flight tracks, etc.) are reflective of existing conditions and anticipated conditions in 2020
- The 2020 NEM must be based on "reasonably foreseeable" assumptions regarding future operations at LAX



LAX Part 150 Noise Exposure Map Update

The LAX NEM Update Will:

- Quantify existing and future aircraft noise exposure levels in the vicinity of LAX
- Provide the FAA and LAWA with a new set of NEMs to assess future noise mitigation needs



LAX Part 150 Noise Exposure Map Update

During The LAX NEM Update LAWA Will Not:

- Develop or recommend noise abatement or noise mitigation measures designed to minimize aircraft noise impacts
- Determine the sound insulation program boundaries
- Identify properties that are eligible for sound insulation



LAX Part 150 Noise Exposure Map Update

Details

- The Alta team kicked off the FAR Part 150 NEM Update with a project team meeting at LAWA's offices on February 18, 2014
- Reviewed the scope of work and project schedule
- Identified key contacts at LAWA for key data needs
- Agreed to brief the LAX Community Noise Roundtable tonight
- Kathryn Pantoja is LAWA's Project Manager
- Steve Alverson is the Alta Environmental Team's Project Manager



LAX Part 150 Noise Exposure Map Update

Study Elements

- Project Team Coordination
- Community Outreach Program
- Develop a Comprehensive Database of Current Conditions
- Assemble Information Required For Noise Contour Development
- Noise Contour Development
- Prepare and Submit NEM Report
- FAA Coordination
- LAWA Coordination
 - Includes two Roundtable briefings



LAX Part 150 Noise Exposure Map Update

Study Schedule



LAX Part 150 Noise Exposure Map Update

Key Dates in 2014

- 1/31/14 – Notice to Proceed
- 3/12/14 – Roundtable Briefing
- 2/3/14 – 5/23/14 – Develop Database of Current Conditions
- 3/17/14 – 7/25/14 – Assemble Information for Noise Contour Development
- 5/13/14, 5/15/14, and 5/16/14 – Community Workshops (Tentative)
- 7/21/14 – 9/26/14 – Noise Contour Development





LAX Part 150 Noise Exposure Map Update



LAX Part 150 Noise Exposure Map Update

Key Dates in 2015

- 9/29/14 – 12/18/15 – Prepare and Submit NEM Update
- 3/10/15 – LAWA Board Meeting (*Tentative*)
- 3/11/15 – Roundtable Briefing (*Tentative*)
- 3/10/15, 3/12/15, and 3/13/15 – Community Workshops (*Tentative*)
- 6/15/15 - Submit LAX NEM Update to FAA
- 12/18/15 – FAA Acceptance of the LAX NEM Update

Questions?





LAX Community Noise Roundtable

LAX Part 150 Noise Exposure Map Update Project Briefing #2

May 14, 2014



LAX Part 150 Noise Exposure Map Update

Brief Overview

- In February 2014, LAWA initiated an update of the Federal Aviation Regulations (FAR) Part 150 Noise Exposure Map (NEM) for LAX
- FAA requires LAWA to update the LAX NEMs to ensure continued sound insulation funding eligibility
- The goal is to submit updated NEMs for LAX to the FAA in 2015



LAX Part 150 Noise Exposure Map Update

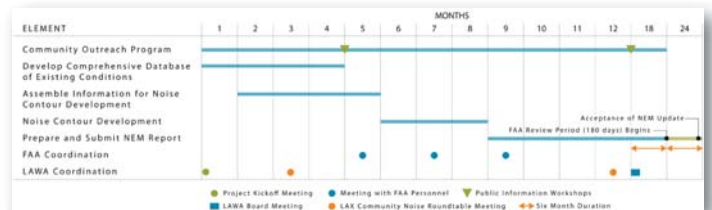
Study Elements

- Project Team Coordination
- Community Outreach Program
- Develop a Comprehensive Database of Current Conditions
- Assemble Information Required For Noise Contour Development
- Noise Contour Development
- Prepare and Submit NEM Report
- FAA Coordination
- LAWA Coordination
 - Includes two Roundtable briefings



LAX Part 150 Noise Exposure Map Update

Study Schedule





LAX Part 150 Noise Exposure Map Update

Key Dates in 2014

- ✓ 1/31/14 – Notice to Proceed
- ✓ 3/12/14 – Initial Roundtable Briefing
- ✓ 2/3/14 – 5/23/14 – Develop Database of Current Conditions
- 3/17/14 – 7/25/14 – Assemble Information for Noise Contour Development
- ✓ 5/12/14 and 5/13/14 – Community Workshops
- ✓ 5/14/14 – Roundtable Update
- 7/21/14 – 9/26/14 – Noise Contour Development



LAX Part 150 Noise Exposure Map Update

Key Dates in 2015

- 9/29/14 – 12/18/15 – Prepare and Submit NEM Update
- 3/10/15 – LAWA Board Meeting (*Tentative*)
- 3/11/15 – Roundtable Briefing (*Tentative*)
- March 2015 – Two Community Workshops (*Tentative*)
- 6/15/15 - Submit LAX NEM Update to FAA
- 12/18/15 – FAA Acceptance of the LAX NEM Update



LAX Part 150 Noise Exposure Map Update

Key Accomplishments to Date

- Collected all of the required aircraft operations, flight track, runway use, time of day, and fleet mix information
- Collected and reviewed all of the key background documents
- Prepared and delivered draft working papers to LAWA
- Submitted a technical memorandum to LAWA identifying potential INM substitutes for forwarding to FAA
- Conducted two public workshops
- Provided two Roundtable briefings



LAX Part 150 Noise Exposure Map Update

What's Next

- Finalize the aviation activity forecasts; submit to FAA for approval
- Receive FAA approval of the INM aircraft type substitutes
- Receive FAA approval of the aviation activity forecasts
- Finalize the noise model inputs and conduct preliminary noise model runs
- Initiate preparation of the draft Noise Exposure Map documentation



LAX Part 150 Noise Exposure Map Update

Questions?





LAX Community Noise Roundtable

LAX 14 CFR Part 150 Noise Exposure Map Update

Project Briefing #3

May 13, 2015



LAX Part 150 Noise Exposure Map Update

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



LAX Part 150 Noise Exposure Map Update

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



LAX Part 150 Noise Exposure Map Update

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



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%
All Aircraft ¹	65.96%	19.61%	14.43%	100.00%	69.03%	11.65%	19.32%	100.00%

NOTES:
Values may not sum to 100% due to rounding.
¹ 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%
All Aircraft ¹	66.60%	19.63%	13.78%	100.00%	69.51%	11.49%	19.00%	100.00%

NOTES:
Values may not sum to 100% due to rounding.
¹ 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%	0.48%	0.24%	0.22%
07L	0.01%	0.01%	8.55%	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%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

NOTES:
Values may not sum to 100% due to rounding.
Does not include helicopter operations.
SOURCE: ESA Airports, October 2014, based on LAXANOMS 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

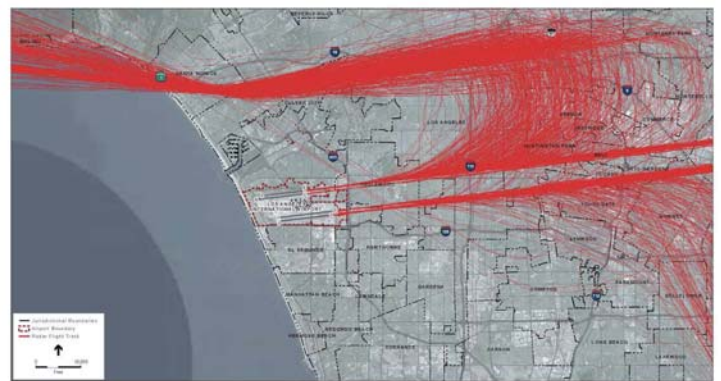
Runway	Arrival			Departure		
	Day	Evening	Night	Day	Evening	Night
06L	0.48%	0.23%	3.38%	0.02%	0.01%	0.01%
06R	0.01%	0.00%	15.00%	0.45%	0.28%	0.24%
07L	0.01%	0.01%	4.90%	0.55%	0.28%	0.50%
07R	0.53%	0.28%	3.17%	0.01%	0.01%	0.17%
24L	1.58%	2.39%	1.43%	44.22%	42.15%	28.55%
24R	46.53%	47.21%	34.12%	1.50%	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%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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

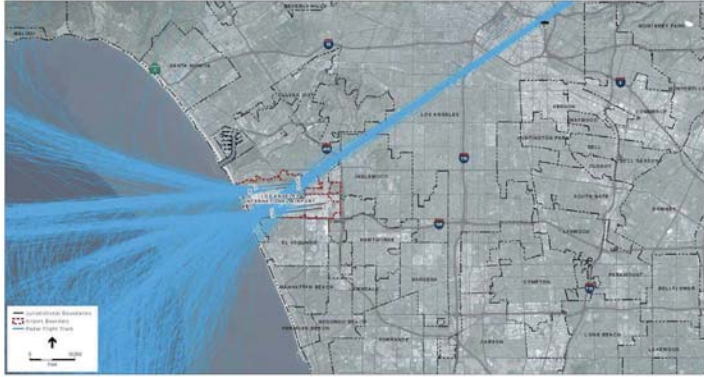
Radar Flight Tracks – Runways 24 and 25 Arrivals



Los Angeles International Airport Radar Flight Tracks - Arrivals from the East
Exhibit C-1
Radar Flight Tracks - Arrivals from the East

ESA Airports **LAX Part 150 Noise Exposure Map Update**

Radar Flight Tracks – Runways 24 and 25 Departures



Los Angeles International Airport 18 CFR Part 150 Study, 2020-18
 Exhibit C-4
 Radar Flight Tracks – Departures to the East

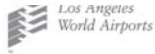


ESA Airports **LAX Part 150 Noise Exposure Map Update**

Modeled Flight Tracks – Runway 24R Departures and Arrivals



Los Angeles International Airport 18 CFR Part 150 Study, 2020-18
 Exhibit 4-3a
 Modeled Arrival and Departure Flight Tracks – Runway 24R



ESA Airports **LAX Part 150 Noise Exposure Map Update**

2015 Noise Exposure Map – Existing Conditions

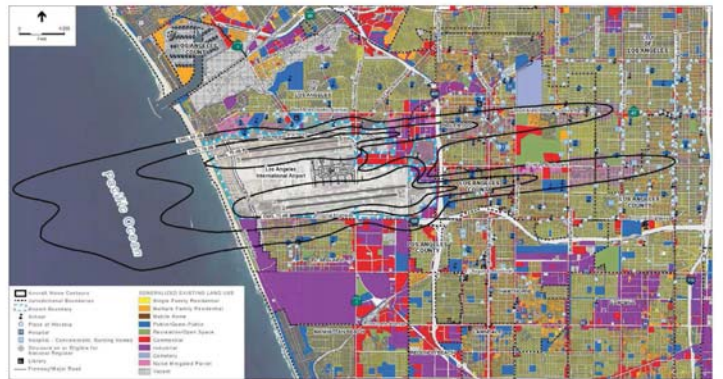


Los Angeles International Airport 18 CFR Part 150 Study, 2020-18
 Exhibit S-1
 2015 Noise Exposure Map (Existing Conditions) - Los Angeles International Airport



ESA Airports **LAX Part 150 Noise Exposure Map Update**

2020 Noise Exposure Map – Future Conditions



Los Angeles International Airport 18 CFR Part 150 Study, 2020-18
 Exhibit S-2
 2020 Noise Exposure Map (Future Conditions) - Los Angeles International Airport



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
2015							
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
Total	11,391.0	11,416	37,803	33	24	2	5
2020							
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
Total	12,035.6	13,045	42,959	43	26	3	5

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.

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
Total	6,581.1	3,017.5	1,792.5	11,391.0	6,876.4	3,229.9	1,929.4	12,035.6

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/

Questions?





Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report
Update

LAX ATCT Staff Briefing
March 11, 2015



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

Project Overview

- Los Angeles World Airports (LAWA) has initiated an update of the Federal Aviation Regulations (FAR) Part 150 Noise Exposure Map (NEM) report for LAX
- The Alta Environmental Team was selected by LAWA to prepare the LAX Part 150 NEM report. Alta Environmental is a local, small business enterprise
- 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



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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 assumed to be similar to 2015
 - Runway Safety Area improvements – Runways 7L-25R and 6R-24L



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

2015 Aircraft Fleet Mix

**TABLE 4-3
ANNUAL AVERAGE DAY OPERATIONS BY AIRCRAFT TYPE - 2015
LOS ANGELES INTERNATIONAL AIRPORT**

Aircraft Type	Actuals	Departures	Total
737MAX	6,252	6,252	12,504
737NG	19,124	19,124	38,248
737MAX	1,415	1,415	2,830
737NG	5,292	5,292	10,584
A321XLR	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000

**TABLE 4-3 (Continued)
ANNUAL AVERAGE DAY OPERATIONS BY AIRCRAFT TYPE - 2015
LOS ANGELES INTERNATIONAL AIRPORT**

Aircraft Type	Actuals	Departures	Total
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000
A321neo	1,000	1,000	2,000

Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

2020 Aircraft Fleet Mix

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

Aircraft Type	Actuals	Departures	Total
737MAX	8,000	8,000	16,000
737NG	20,000	20,000	40,000
737MAX	1,500	1,500	3,000
737NG	6,000	6,000	12,000
A321XLR	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400

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

Aircraft Type	Actuals	Departures	Total
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400
A321neo	1,200	1,200	2,400

Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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	Day	Evening	Night
Large Narrow-Body Aircraft	40.42%	25.66%	24.30%	100.00%	73.82%	23.71%
Large Wide-Body Aircraft	87.30%	91.99%	20.61%	100.00%	40.04%	37.82%
New Jet Aircraft	73.42%	91.99%	10.81%	100.00%	72.33%	18.46%
New Large Aircraft	64.44%	17.34%	18.22%	100.00%	45.02%	51.84%
Small Jet Aircraft	22.04%	19.37%	8.89%	100.00%	24.79%	16.21%
Small Narrow-Body Aircraft	69.62%	20.20%	13.81%	100.00%	23.04%	18.53%
Small Wide-Body Aircraft	50.50%	23.12%	26.38%	100.00%	58.60%	10.77%
All Aircraft	85.56%	18.61%	14.43%	100.00%	69.02%	19.52%



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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	49.36%	25.70%	24.82%	100.00%	73.97%	2.26%	23.74%	100.00%
Large Wide-Body Aircraft	15.30%	11.49%	12.30%	100.00%	54.89%	11.39%	33.30%	100.00%
Medium Aircraft	15.12%	15.98%	9.61%	100.00%	72.30%	11.25%	160.00%	100.00%
Small Large Aircraft	12.23%	13.31%	14.48%	100.00%	62.98%	3.54%	40.31%	100.00%
Small Jet Aircraft	72.01%	19.43%	8.54%	100.00%	74.70%	18.28%	8.02%	100.00%
Small Narrow-Body Aircraft	60.99%	20.36%	13.67%	100.00%	69.63%	10.24%	19.24%	100.00%
Small Wide-Body Aircraft	54.64%	24.69%	20.76%	100.00%	49.32%	11.89%	24.77%	100.00%
All Aircraft ¹	66.86%	18.82%	13.78%	100.00%	68.51%	11.49%	13.98%	100.00%

NOTES:
1 Values may not sum to 100% due to rounding.
2 Does not include helicopter operations.
SOURCE: ESA Reports, October 2014.

Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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%	3.50%	0.02%	0.01%	0.01%
06R	0.01%	0.00%	13.72%	0.49%	0.24%	0.22%
07L	0.01%	0.01%	0.20%	0.02%	0.28%	0.17%
07R	0.04%	0.20%	4.30%	0.03%	0.02%	0.17%
24L	1.64%	2.39%	1.27%	43.20%	40.02%	25.67%
24R	45.91%	48.64%	38.87%	1.48%	0.47%	1.22%
25L	43.44%	47.15%	38.67%	3.22%	0.30%	10.82%
25R	2.04%	3.32%	2.01%	0.04%	0.01%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

NOTES:
1 Values may not sum to 100% due to rounding.
2 Does not include helicopter operations.
SOURCE: ESA Reports, October 2014, based on LAX AIRCRAFT data for calendar year 2013.



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

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	0.46%	0.23%	3.50%	0.02%	0.01%	0.01%
06R	0.01%	0.00%	15.00%	0.49%	0.24%	0.22%
07L	0.01%	0.01%	0.20%	0.02%	0.28%	0.17%
07R	0.05%	0.20%	3.17%	0.03%	0.02%	0.17%
24L	1.59%	2.39%	1.43%	44.22%	42.10%	28.53%
24R	46.53%	47.21%	34.12%	1.50%	0.49%	1.43%
25L	43.87%	46.85%	38.00%	2.89%	0.45%	9.80%
25R	2.04%	3.26%	1.92%	0.03%	0.01%	0.01%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

NOTES:
1 Values may not sum to 100% due to rounding.
2 Does not include helicopter operations.
SOURCE: ESA Reports, October 2014.



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update

Published Arrival and Departure Procedures

TABLE 3-9
STANDARD TERMINAL ARRIVAL ROUTES, LOS ANGELES INTERNATIONAL AIRPORT

Procedure Name	Procedure Type	Arrival Direction
BERRY THREE	Conventional	Southwest
DONNE FOUR	Conventional	East/Southwest
KIMMY THREE	Conventional	North/Southwest
LEDIA FOUR	Conventional	North/Southwest
WOOBERRY THREE	Conventional	South/Southwest/Southwest
OCEAN TWO	Conventional	East/Southwest
CLIQUE ONE	Conventional	South/Southwest/Southwest
REDEYE TWO	Conventional	East/Southwest
REDEYE THREE	Conventional	East/Southwest
BANK TWO	Conventional	South/Southwest
JANICE ONE	Conventional	East/Southwest
MIRRY TWO	Conventional	East/Southwest
INDIE ONE	Conventional	South/Southwest/Southwest
WILLY TWO	Conventional	South/Southwest/Southwest
ALVA TWO	Visual	South/Southwest/Southwest
ALVA THREE	Visual	South/Southwest/Southwest
ALVA ONE	Visual	Southwest
EMPH ONE	Visual	North/Southwest

NOTE: Wavy = low frequency
SOURCE: AirNav.com, August 2014.

TABLE 3-4
DEPARTURE PROCEDURES, LOS ANGELES INTERNATIONAL AIRPORT

Procedure Name	Procedure Type	Departure Direction
COPY ONE	Conventional	South/East
CHRY TWO	Conventional	North/East
GARRY ONE	Conventional	South/East
GARRY FOUR	Conventional	South/East
HARRY ONE	Conventional	South/East
LARRY ONE	Conventional	South/East
LOOP SEVEN	Conventional	South/East
MURRY ONE	Conventional	South/East
PAV DRUG DO	Conventional	South/East
PERCY ONE	Conventional	South/East
SEBBY SEBBY	Conventional	South/East
WILLYA FIVE	Conventional	South/East
CASHA FOUR	Visual	South/East
FRIT TWO	Visual	South/East
HOLY ONE	Visual	South/East
JERRY ONE	Visual	South/East
KARRY THREE	Visual	South/East
HELLA ONE	Visual	South/East
IRISNY FOUR	Visual	South/East
JOJO ONE	Visual	South/East

NOTE: Wavy = low frequency
SOURCE: AirNav.com, August 2014.



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport - 14 CFR Part 150 Noise
Radar Flight Tracks - Arrivals from the East
Exhibit C-1
Los Angeles World Airports



Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport - 14 CFR Part 150 Noise
Radar Flight Tracks - Departures to the West
Exhibit C-4
Los Angeles World Airports



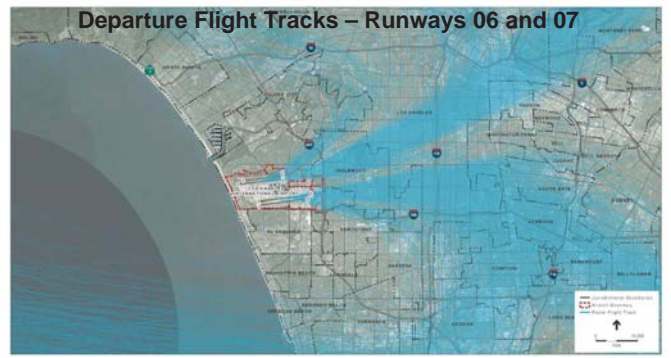
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Los Angeles International Airport - 14 CFR Part 150 Noise
Radar Flight Tracks - Arrivals from the West
Exhibit C-2
Los Angeles World Airports



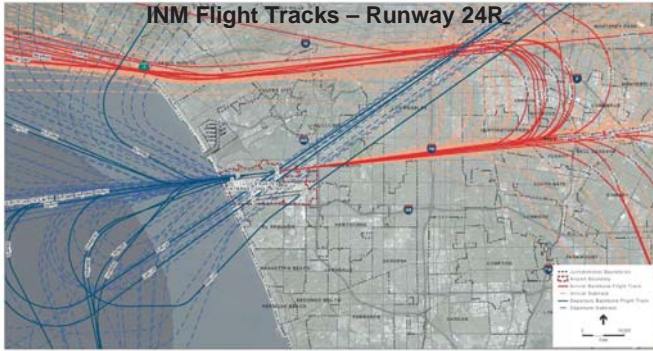
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Los Angeles International Airport - 14 CFR Part 150 Noise
Radar Flight Tracks - Departures to the East
Exhibit C-3
Los Angeles World Airports



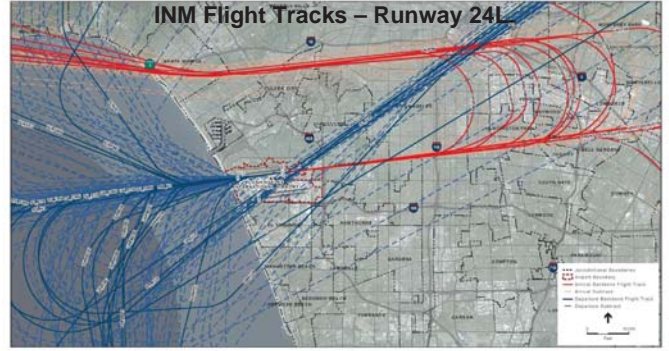
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14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 24R
Exhibit 6-28



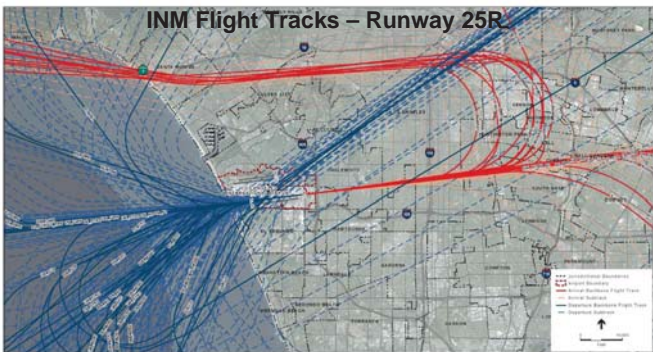
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Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 24L
Exhibit 6-44



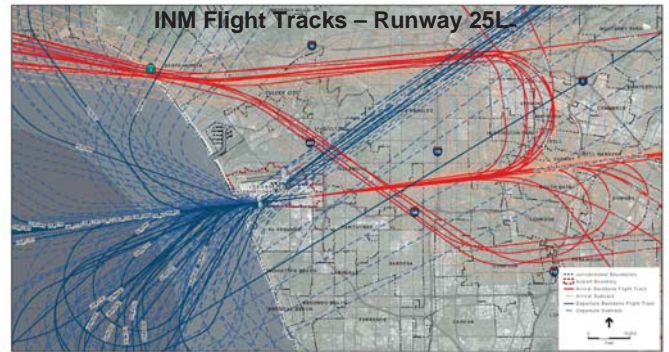
Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 25R
Exhibit 6-54



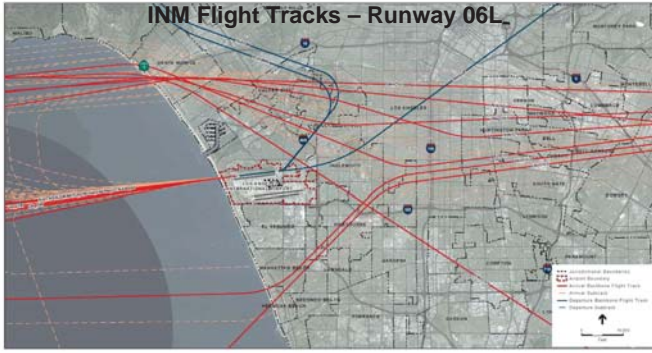
Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 25L
Exhibit 6-60



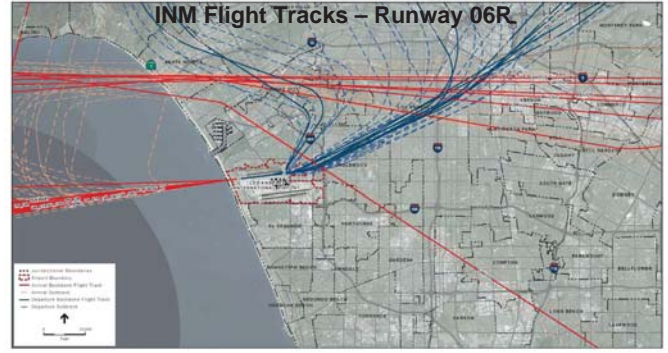
Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 06L
Exhibit 4-74



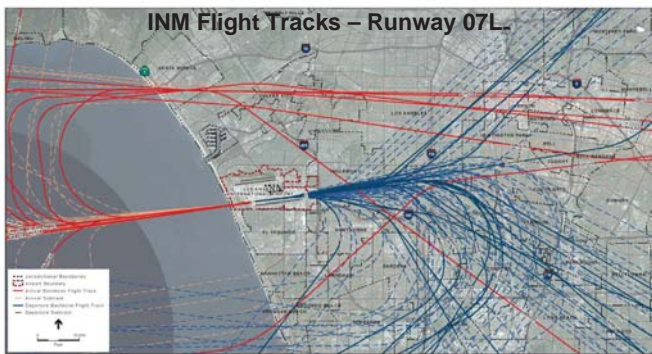
Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 06R
Exhibit 4-84



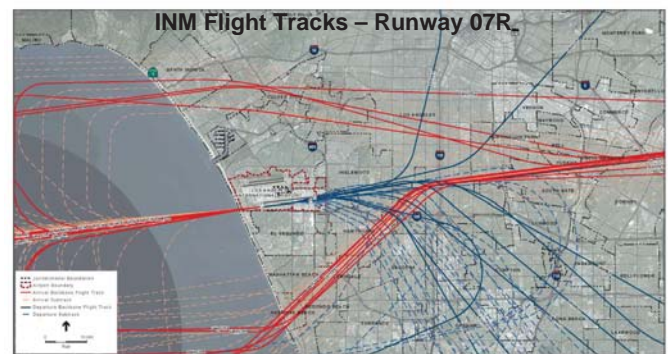
Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



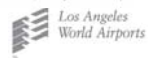
Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 07L
Exhibit 4-84



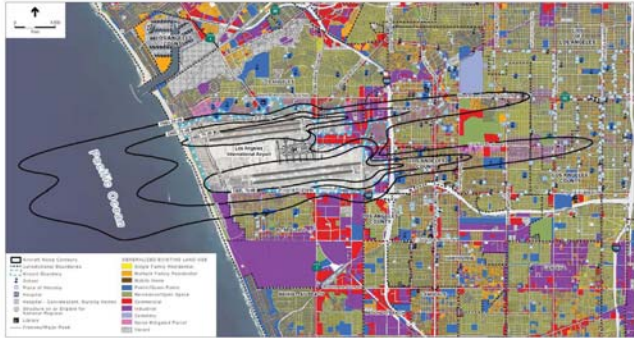
Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update



Los Angeles International Airport 14 CFR Part 150 Noise Exposure Map Report Update
INM Arrival and Departure Flight Tracks - Runway 07R
Exhibit 4-104



**Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update**



2015 Noise Exposure Map - Los Angeles International Airport **Exhibit B-1**



**Los Angeles International Airport
14 CFR Part 150 Noise Exposure Map Report Update**



2020 Noise Exposure Map - Los Angeles International Airport **Exhibit B-2**



From: PANTOJA, KATHRYN R. <KPantoja@lawa.org>
Sent: Thursday, August 06, 2015 10:49 AM
To: Dean Edwards; Carmen Sainz
Subject: LAX Noise Exposure Map Update

Hello,

I wanted to ensure that you are aware of the update LAWA is conducting for the 14 CFR Part 150 LAX Noise Exposure Map (NEM). We are trying to finalize the document for submittal to the Federal Aviation Administration in August 2015 and would like to make sure that you had an opportunity to review and provide any input if desired. We have been working primarily with the LACO CDC staff (Residential Sound Insulation Program (RSIP) – Ray Gomez) obtaining updated noise mitigation information for inclusion in this update to the Part 150 NEM 65 dB noise contour, which determines the eligible area for possible federal funding under the Airport Improvement Program for the CDC RSIP. This update was brought up in our discussion back in March 2015 when we had a teleconference call along with CDC staff to discuss which LAX noise contour map should be referenced in the Noise Insulation Program in Title 22 of Los Angeles County Code.

The draft LAX Part 150 NEM Update document and information may be viewed on the LAWA website at the following links:

<http://www.lawa.aero/LAXPart150.aspx?id=9625> (document)
<http://www.lawa.aero/LAXPart150.aspx> (LAX Part 150 web page)

We will be finalizing the document hopefully by August 21, 2015. Please let me know if you have any problems accessing the linked information.

Kind regards,

Kathryn Pantoja
Environmental Affairs Officer
Los Angeles World Airports
Environmental and Land Use Planning Division
Noise Management
424-646-6501 PHONE
424-646-9260 FAX

The contents of this message are confidential and privileged and the dissemination or copying of this information is prohibited by anyone who is not the intended recipient. Thank you.

From: PANTOJA, KATHRYN R. <KPantoja@lawa.org>
Sent: Thursday, August 06, 2015 2:47 PM
To: cejackson@cityofinglewood.org
Subject: LAX Part 150 Noise Exposure Map Update

Dear Mr. Jackson,

I was referred by Bettye Griffith, Manager of the Inglewood RSI Program, who LAWA works with on a regular basis. We are in the final stages of updating the 14 CFR Part 150 Noise Exposure Map (NEM) for LAX to ensure continued eligibility for noise mitigation funds from the Federal Aviation Administration (FAA) under their AIP grants. We have obtained updated information from the Inglewood RSI Program regarding mitigated parcels, land use, etc., and incorporated this data into the LAX NEM update for submittal to the FAA. I would like to ensure that the City of Inglewood Planning Department is aware of this project so that you can share any feedback or input on this project if you so desire.

Our current project schedule has a target submittal date to the FAA of August 2015 to ensure that all noise impacted communities remain eligible to receive AIP grant funds from the FAA after this year – the current approved map is the Master Plan Alt D 65 dB contour for 2015. The draft LAX Part 150 NEM Update is available for review on our website as follows:

<http://www.lawa.aero/LAXPart150.aspx> (information web page)

<http://www.lawa.aero/LAXPart150.aspx?id=9625> (document)

The draft 2020 NEM update contour is generally larger than the current NEM contour so this will be beneficial for all surrounding noise impacted communities. Please let me know if you have any problems accessing the website links above. We hope to have the final document ready for submittal to the FAA by August 21, 2015. Thank you for your time and attention.

Best regards,

Kathryn Pantoja

Environmental Affairs Officer

Los Angeles World Airports

Environmental and Land Use Planning Division

Noise Management

424-646-6501 PHONE

424-646-9260 FAX

The contents of this message are confidential and privileged and the dissemination or copying of this information is prohibited by anyone who is not the intended recipient. Thank you.

**List of Individuals and Organizations Contacted
14 CFR Part 150 Noise Exposure Map Update
Los Angeles International Airport**

Full Name

Brian Laycock
 Jeremy Heard
 Robert Lonnie
 SERGEY MAKSUNOV
 Wolfgang Sperber
 Maribel Iglesias
 Francisco Padilla Fernandez de la Vega
 Luis Del Bosque Gomez
 Mr. Guilhem Perrichet
 David Morgan
 Brian Kay
 Andre Anderson
 Ed Wilson
 Stephen Tucker
 Jaden Kushner
 James A. Elan
 Rob Amsler
 Lynae Craig
 Richard Ide
 Thayne Klingler
 Captain Jim Kaiser
 Ronald Thomas
 Mr. Brian Lander
 Ed Cook
 Richard Carpenter
 Teak Biondo
 Ralph Myers
 Chris Agnini
 Lew Allen
 Melvin Wagoner
 Eric Sanchez
 Kellee Valentine
 Gordon Isachsen
 Herbst Axel
 Walter Calzadilla
 Captain Geoff Marinko
 Captain Neil Phillips
 Mr. Charlie Pai
 Captain George Weng
 Captain Guo-Hsiung Fann
 Robert Chin
 James Li
 Duan Phillip
 XU/CANHUI
 Mr. Zhang Tao
 Stelios D. Rapis
 Cliff Holt
 Todd Naugle
 Enrique Medina Brand
 Jorge Campbell
 J. J. Sloan
 Richard Hopkins
 Flight Ops Atlanta
 Gary Cabriaes
 Tony Roberts
 Ryan Pike
 Garcia, Joel
 Jim Koutsopanagos
 Noam Doron
 Captain Edo Sharon
 Alex Chang
 Bernie Lin
 Linda Gann
 Richard Y. Yeh
 Coty Mao
 Chip Carter

Agency

ABX Air (ABX)
 ABX Air (ABX)
 Aero Jet Services
 AEROFLOT RUSSIAN AIRLINES
 AeroLogic
 Aeromexico (AMX)
 AeroMexico Connect
 AeroUnion (TNO)
 Air France (AFR)
 Air New Zealand Limited
 Air Tahiti Nui
 Air Transport Inc/ATI Jets (CYO)
 Air Transport International
 AirNet Systems, Inc
 AirSprint Canada (ASP)
 AirSprint US, Inc. (HAB)
 AirTran Airways (TRS)
 Alaska Airlines (ASA)
 All Nippon Airways (ANA)
 Allegiant Air (AAV)
 American Airlines (AAL)
 American Airlines (AAL)
 Ameriflight, LLC (AMF)
 Amerijet International
 Amerijet International
 Ameristart Jet Charter, Inc. (AJI)
 Asiana Airlines
 Atlas Air Cargo/Polar Air Cargo
 Atlas Air, Inc (GTI)
 Avcenter Inc
 Aviation Advisor Inc. (LKF)
 Aviation Consultants, Inc.
 Avjet Corporation
 Cargolux Airlines Int'l S.A.
 Cargolux Italia (ICV)
 Cathay Pacific Airways (CPA)
 Cathay Pacific Airways (CPA)
 China Airlines (CAL)
 China Airlines (CAL)
 China Airlines (CAL)
 China Airlines (CAL)
 China Airlines (CAL)
 China Cargo Airlines
 China Eastern Airlines
 China Southern Airlines
 China Southern Airlines
 Chrysler Aviation, Inc.
 Clay Lacy
 Compass Airlines (CPZ)
 Contact Integrated Services
 Copa Airlines
 Corporate Flight International, Inc. (VHT)
 D&D Aviation
 Delta Airlines (DAL)
 Delta Airlines (DAL)
 Delta Private Jets
 DesertJet, LLC (DJR)
 Disney
 Eagle Aircraft
 EL AL Airlines (ELY)
 El Al Israel Airlines (ELY)
 EVA Air (EVA)
 EVA Air (EVA)
 EVA Air (EVA)
 EVA Air (EVA)
 EVA Airways CORP.
 Evergreen International Airlines, Inc.

**List of Individuals and Organizations Contacted
14 CFR Part 150 Noise Exposure Map Update
Los Angeles International Airport**

Full Name

Dion Glenn
 Captain Dan L. Delane
 Jason Weiss
 Bill Bilger
 Nick Erb
 John Maloney
 Ken Wilson
 JP Thibodeau
 Captain Steve Woodfine
 Ron Rhoads
 Captain Brent Rollins
 JD Hood
 Lamar Haugaard
 Michael Cary
 Sandra Miracle
 Masakazu Douglas
 Bill Thomas
 Mike Kopp
 Edward Clark
 James Daulton
 Greg Marcussen
 Frank Westbrook
 Timothy Slater
 Peter Sanderlin
 Bradley K Clark
 Ms. Linda Perdue
 Kevin Kong
 TaeHa Park
 Carlos Olmedo
 Jacqueline Lefort
 Tim Miller
 Fokko Doyen
 Stefan Lau
 John Jorgensen
 Enrique Garcia
 Reggie Hopwood
 Alvin Isaacs
 Jorge U. Morales
 John Passwater
 Mike Moravec
 Pablo F. Montoya
 Wade Tefft
 Captain Arthur Clark
 Eric Lampert
 Ms. Yuko Toyama
 Hiroshi Ikeya
 Chad Seedorf
 James Wayne
 Stephen Ricard
 Bob Zeng
 James Straley
 Harve Camelin
 Jason Martinelli
 Adrian M. Ingles
 Rex Aldanese
 Phil Dacy
 Tim Lomakin
 John Burrue
 Bart Wooldridge
 Taesik Kim
 Tom Mason
 Max Rosenberg
 Gary Helmeid
 Jason Middleton
 Ron Turner
 Michael Wang

Agency

F & L Aviation
 FedEx (FDX)
 FlexJet (LXJ)
 Flight Options (OPT)
 Flightexec
 Florida West International Airways (RF)
 FLTPlan, LLC
 Frontier Airlines (FFT)
 Gama Aviation Ltd
 Gowan Company, LLC
 Great Lakes Airlines (GLA)
 Horizon Air (QXE)
 Horizon Air (QXE)
 IFL Group, Inc. (TSU)
 IFL Group, Inc. (TSU)
 Japan Airlines (JAL)
 Jet Aviation Holdings
 Jet Linx Aviation LLC (JTL)
 Jet Northwest LLC
 JetBlue Airways (JBU)
 JetSelect Aviation (OHC)
 JetSuite Air (RSP)
 KaiserAir, Inc.
 Kalitta Air
 Kalitta Charters (KFS)
 Key Lime Air, Inc. (LYM)
 Korean Air (KAL)
 Korean Air (KAL)
 LACSA Airlines (LRC)
 Lan Chile & Lan Peru Airlines
 Lockheed Martin Corp
 Lufthansa Cargo
 LUFTHANSA GERMAN AIRLINES
 Mach 1 Charter
 Mas Air Cargo (MAA)
 McNeely Charter Service Inc.
 Mesa Air Group
 MGM Resorts International
 Miami Air International
 MIDWEST AVIATION (DZR)
 Monty Aviation, LLC
 Mountain Aviation (FTH)
 Netjets (EJA)
 Netjets (EJA)
 Nippon Cargo Airlines (NCA)
 Nippon Cargo Airlines (NCA)
 Northern Illinois Flight Center DBA:N-Jet
 Northrop Grumman
 Northrop Grumman Aviation Division
 Omni Air International
 Omni Air International
 Pak West Airlines
 Pegasus Elite Aviation (PEG)
 Philippine Airlines
 Philippine Airlines
 Priester Aviation, LLC.
 Regency Air
 Reno Flying Service
 Republic Airlines
 Samsung Techwin C., Ltd
 Sands Aviation
 Santa Barbara Aviation
 SC Aviation
 Scott Aviation, dba Siver Air (SIS)
 Simon Aviation
 Singapore Air

**List of Individuals and Organizations Contacted
14 CFR Part 150 Noise Exposure Map Update
Los Angeles International Airport**

Full Name

Captain Eri Oon
Jack Thomas
Captain Hovik Grozian
John Laber
Fred Lohden
Don Hall
Perry Clausen
Rich Dancaster
Richard Scord
Jeff Curl
Peku Karu
Todd LaSalle
Chuck Bertrand
Alan W. Jones
Carlos Olmedo
Richard Sedgwick
Mr.Suravudhi Kosoltrakul
Scott Henely
Jay Arcemont
Philippe Raux
Captain Glen McGeary
Captain John Buyer
Captain Lawrence Ellis
Karl Blackmun
Richard Peck
Dave Surridge
Matt Sears
Kirk Demers
Captain Brian Sheehy
Ramez Reno
Brydon Knibbs
Thomas E. Jordan
Pete Hudes
Jim Potter
Christopher Watts
Christy Hutchison
Captain Wang Xi
June Lehrman
Stephen Murray
John Nachbar (City Manager)
Todd Tipton
Carl Jacobson (Mayor Pro Tem)
James O'Neill
Dick Croxall
Mike Cassidy
Michael DiVirgilio
Jim Withrow
David Esparza
Brian Bergman (Mayor)
Sam Andreano
Gary Sugano
Bernard Parks (City Council Member)
Christine Dixon
Cesar Ruiz
Berny Motto
Mike Bonin (City Council Member)
Jessica Duboff
Wayne Powell
Chris Arriola
Cesar Vega
Paul Talbot
Rey Alfonso
Vickie Banando
Amy Ho
Blake LaMar
Petra Schneider

Agency

Singapore Air Cargo
Sky King Aviation
Skywest Airlines (SKW)
SkyWest Airlines (SKW)
Solairus/Sunset Aviation (TWY)
Southern Air Inc.
Southwest Airlines (SWA)
Spirit Airlines (NKS)
Spring Mountain Enterprises
Starbase Aviation (SBE)
Starjet Inc
Sun Country Airlines (SCX)
Sunwest Aviation Ltd.
SunWest Aviation, Inc.
TACA Airlines
Target Corp
Thai Airways International LTD.
Travel Management Company (TMC)
TWC Aviation
Unijet SA
United Airlines (UAL)
United Airlines (UAL)
United Airlines (UAL)
United Parcel Service (UPS)
Universal Jet Aviation
US Airways
USA Jet Airlines
Virgin Australia (VOZ)
Virign America (VRD)
Volaris Airlines (VOI)
Volo Aviation LLC
West Air, Inc.
West Coast Charters
Western Air Charter dba Jet Edge International (EDG)
Worldwide Jet Charter
XOJET INC (XOJ)
Yangtze River Express Cargo
City of Culver City
City of Culver City
City of Culver City
City of Culver City
City of El Segundo
City of El Segundo
City of El Segundo
City of Hermosa Beach
City of Hermosa Beach
City of Inglewood
City of Inglewood
City of La Habra Heights
City of La Habra Heights
City of Lomita
City of Los Angeles (Council District 8)
City of Los Angeles (Council District 8)
City of Los Angeles (Council District 8)
City of Los Angeles (Council District 8)
City of Los Angeles (Council District 11)
City of Los Angeles (Council District 11)
City of Manhattan Beach
City of Monterey Park
City of Monterey Park
City of Monterey Park
City of Monterey Park
City of Monterey Park
City of Monterey Park
City of Palos Verdes Estates
City of Ranchos Palos Verdes

**List of Individuals and Organizations Contacted
14 CFR Part 150 Noise Exposure Map Update
Los Angeles International Airport**

Full Name	Agency
So Kim	City of Ranchos Palos Verdes
Susan Brooks (Mayor Pro Tem)	City of Ranchos Palos Verdes
Carolynn Petru	City of Ranchos Palos Verdes
Matt Waters	City of Ranchos Palos Verdes
Steve Aspel	City of Redondo Beach
Patrick Furey (Mayor)	City of Torrance
Rolan Morel (LAX Tower)	Federal Aviation Administration (FAA)
Faviola Garcia (Western-Pacific Region, Office of the Regional Administrator)	Federal Aviation Administration (FAA)
Steve May (Western-Pacific Region, Office of the Regional Administrator)	Federal Aviation Administration (FAA)
Victor Globa (FAA ADO)	Federal Aviation Administration (FAA)
Sherry Avery (LAX Tower)	Federal Aviation Administration (FAA)
Jeff Cunningham (LAX Tower)	Federal Aviation Administration (FAA)
Barry Davis (So Cal TRACON)	Federal Aviation Administration (FAA)
Pat Anderson (So Cal TRACON)	Federal Aviation Administration (FAA)
Thomas Roche	Federal Aviation Administration (FAA)
Dennis Roberts	Federal Aviation Administration (FAA)
Sam Shrimpton	Federal Aviation Administration (FAA)
Stephen Lloyd	Federal Aviation Administration (FAA)
Mark Tellier	Federal Aviation Administration (FAA)
Brian Johnson	Federal Aviation Administration (FAA)
Yvonne Bedford	Ladera Heights Civic Association
Didier Tais	Ladera Heights Civic Association
Don Knabe (County Supervisor)	Los Angeles County Supervisor, 4th District
Steve Napolitano	Los Angeles County Supervisor, 4th District
Mark Ridley-Thomas (County Supervisor)	Los Angeles County Supervisor, 2nd District
Erin Stennis	Los Angeles County Supervisor, 2nd District
Danna Cope	LAX Area Advisory Committee
Linda Peterson	LAX Area Advisory Committee
John Dragone	LAX Area Advisory Committee
Martin Rubin	North Westdale Neighborhood Association (NWNA)
Philip Crimmins	State of California - Dept of Aeronautics
JoAnn Williams	United Homeowners Association
Alan Guttman	United Homeowners Association
Denny Schneider	Westchester Neighbors Association
Robert Acherman	Westchester Neighbors Association
Kelley Brown	Area Resident
Rudy Withcomb	Area Resident
Cecil Carpio	Area Resident
Lynne Shapiro	Area Resident
Mike Stevens	Area Resident
Richard Root	Area Resident
Edgar Saenz	Area Resident
John Keho	Area Resident
John H. Bailey	Area Resident
Christopher Kelley (Pilot)	United Airlines
Glen McGeary (Pilot)	United Airlines
Dan Delane (Pilot)	FedEx
Paul Cassel (Pilot)	FedEx
Sheree Weber	FedEx
John Laber (Pilot)	SkyWest
Clint Simmons	Area Resident
Sonia Ffrench-Pitts	Area Resident
Christine Wood	Area Resident
John Keho	Area Resident
Philip Crimmins	Caltrans Division of Aeronautics MS-40
Ombudsman	Andrews Joint Airforce Base
Leon Borja	City of Los Angeles Mayors Office
Greg Carpenter (City Manager)	City of El Segundo
Doug Carstens	Chatten-Brown & Carstens
Lawrence Hefetz	County of Los Angeles
John F. Kraptli	County of Los Angeles
Barbara Lichman	Buchalter Nemer
Brenda Martinez-Sidhom	Stakeholder Liaison Office
Gabriel Ross	Shute, Mihaly & Weinberger LLP
Carol Schwab	City of Culver City
E. Clement Shute	Shute, Mihaly & Weinberger LLP

List of Individuals and Organizations Contacted
14 CFR Part 150 Noise Exposure Map Update
Los Angeles International Airport

Full Name

Osa Wolff
Carmen Sainz
Dean Edwards
Christopher Jackson
Ray Gomez
Bettye Griffith
Evelyn Quintanilla (Chief of Airport Planning)

Agency

Shute, Mihaly & Weinberger LLP
Los Angeles County Department of Regional Planning
Los Angeles County Department of Regional Planning
City of Inglewood Economic and Community Development Department
County of Los Angeles, Residential Sound Insulation Program
City of Inglewood Residential Sound Insulation Program
Los Angeles World Airports