

Part 161 Study for Los Angeles International Airport Los Angeles World Airports

Public Workshop November 13, 2012



LAWA proposes to:

If FAA approves the proposed restriction, LAWA will proceed with Environmental analysis under CEQA BOAC and City Council approval of a City Ordinance



Proposed Restriction

Restrict the easterly departure of aircraft, with certain exemptions, from midnight to 6:30 a.m. when the airport is in Over-Ocean Operations or Westerly Operations.









Proposed Restriction – Affected Flights









Proposed Restriction – Affected Flights

Number of Non-conforming Flights by Year

Note: Year 2000 includes data only from June through December



commerce airspace regulation aviation system

NMMN

FAA requires that the proposed restriction: ✓ is reasonable, nonarbitrary, and nondiscriminatory vould not create an undue burden on interstate or foreign would maintain safe and efficient use of navigable

would not conflict with any existing federal statute or

was subject to adequate opportunity for public comment does not create an undue burden on the national





Nonrestrictive Alternatives

Continue to pursue voluntary compliance through: Over-Ocean operations from midnight to 6:30 am Weather and operational conditions permitting Continuous monitoring and reporting of east departures at night when in Over-Ocean operations Westerly operations Regular communication with and education of operators As recommended by the LAX/Community Roundtable LAWA sends letters to operators that depart east during Over-Ocean or Westerly operations that request an explanation Started September 2011 LAWA concludes that nonrestrictive mechanisms are insufficient to obtain compliance with this measure.





Aircraft Operations Forecast – 2012 and 2017

2013: 594,000 2018: 649,000

LAX airport records

Airline fleet data



- Projected annual operations
- Forecasts used multiple data sources
 - U.S. Department of Transportation data Passenger and all-cargo aircraft schedules
 - Multiple FAA sources
 - Industry forecast from Boeing, Airbus and the FAA
- FAA found the forecasts were consistent with its December 2011 Terminal Area Forecast (TAF)



Benefits and Costs of Restriction

- Potential benefits include
 - Fewer people exposed to aircraft noise overall
 - Fewer people awakened
- Potential costs include
 - Revenue associated with the offloading of cargo or passenger baggage to reduce takeoff weight so aircraft can safely depart to the west with slight tailwind
- - Offloaded cargo and/or baggage would fly on a later flight



Reduced fuel consumption from more direct routing





Supplemental Analysis

Sleep Disturbance – Estimated Annual Awakenings Based on American National Standards Institute (ANSI) Standard S12.9-2008/Part 6 "Methods for Estimation of Awakenings Associated with **Outdoor Noise Events Heard in Homes**" Up to 185,000 fewer awakenings annually Over 8,000 awakenings on particular nights with non-

conforming operations

Environmental Justice No significant change to 65 dB CNEL contour Reduced awakenings with proposed restriction Approximately 60% of the people potentially awakened by non-conforming flights are minority or low income









Geographic distribution of changes in awakenings Extensive areas receive

benefit

Darker areas are closer to the airport and under the most common flight paths

Graphic depicts estimated number of awakenings from the non-conforming operations on January 27, 2012.



Supplemental Analysis



Noise Contours – 2013







Noise Contours – 2018









Part 161 Study for Los Angeles International Airport Los Angeles World Airports

Public Comments November 13, 2012

