Part 161 Study for Los Angeles International Airport

Los Angeles World Airports

LAX/Community Noise Roundtable Briefing March 14, 2012





What is a Part 161 Study?

- Part 161 of the Federal Aviation Regulations specifies procedures that must be followed by any airport intending to implement a proposed noise rule
- Part 161 requirements include:
 - Cost and benefit analyses of the proposed rule
 - Examination of alternatives
 - Public notification and opportunity for public comment
 - Establishment of a public docket
- FAA headquarters must approve the study and restriction before the proposed rule can be put into effect





Part 161 Process





Prohibit the easterly departure of aircraft, with certain exemptions, between the hours of midnight and 6:30 a.m. when the Airport is in Over Ocean Operations, or when it remains in Westerly Operations



Representative Non-Conforming Flight Tracks





Why a Part 161 Study for LAX?

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 To reduce the nighttime noise burden for the communities most affected by non-conforming easterly departures
From midnight to 6:30 am

LAX/Community Noise Roundtable Work Program

- Item A2 states that aircraft departing to the east between midnight and 6:30 a.m. create a serious noise disturbance to residents
- Roundtable recommended LAWA initiate a Part 161 Study
- Master Plan Mitigation Measure (MM-N-5)
 - Initiate a Part 161 Study seeking federal approval of a locally-imposed restriction
 - Submit application to FAA or execute a voluntary agreement between LAWA and the airlines





Why a Part 161 Study for LAX?

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Stipulated Settlement Agreement

- Complete a Part 161 Study
- Seek FAA approval for a restriction with penalties for violations

Community Benefits Agreement (CBA)

- Perform study per Part 161 and submit application to FAA
- Maintain records of nighttime eastbound departures
- Report annually to the LAX Coalition
- Upon FAA approval, implement proposed restriction





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FAA requires demonstration that the proposed rule:

- Is reasonable, nonarbitrary and nondiscriminatory
- Will not create an unreasonable burden on interstate or foreign commerce
- Will maintain safe and efficient use of navigable airspace
- Will not conflict with any existing federal statute or regulation
- Does not create unreasonable burden on the national aviation system
- Was the subject of adequate public notice and opportunity for public comment







Flights Affected by Proposed Restriction

- 65 non-conforming flights per year (10-year average)
- Air carrier user class of aircraft
 - Boeing 747, 767 and 777
 - Airbus A330 and A380







Costs of the Proposed Restriction

- Operators are expected to limit takeoff weight
 - Cargo and/or baggage over standard passenger allotment
- Estimated range of revenue associated with affected cargo and baggage to limit takeoff weight on 65 annual departures
 - Actual cost determination still in progress
 - We expect limited costs given only 65 flights annually
- No other costs are expected as a result of the proposed restriction



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- Reduction in the number of people potentially awakened
- Removal of 12 dwelling units from the 65 dB CNEL contour, which are not in the Airport Noise Mitigation Program (ANMP) boundary:
 - \$507,920 benefit, based on estimated cost to sound insulate the units as an alternative to the restriction
- Potential fuel savings to aircraft operators:
 - Non-conforming flights depart east and turn to head west resulting in longer flight tracks than if they departed west
 - \$129,000 to \$429,000 over 5- to 15 year analysis period

Note: Dollar values are net present value in 2013, the projected year of implementation





- People report being awakened by non-conforming flights at night
- ANSI S12.9-2008 Part 6 was used to estimate the reduction in the number of people potentially awakened if the proposed restriction is implemented

Number of People Potentially Awakened

Year	Total Population	Status Quo	With Restriction	Change
2012	3,697,193	91,774	91,255	-519
2017	3,697,193	91,215	90,777	-438

Note: The reported number of people potentially awakened represents the average daily awakenings





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Sleep Disturbance

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 Reduction in number of people potentially awakened if restriction is in effect in 2017





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According to EPA

- Environmental Justice is the fair treatment and meaningful involvement of all people regardless of:
 - race, color, national origin or income
- With respect to the development, implementation and enforcement of environmental laws, regulations and policies, "fair treatment" means:
 - no group of people should bear a disproportionate share of the negative environmental consequences...

EPA goal:

 To provide an environment where all people enjoy the same degree of protection from environmental and health hazards...



 Early indication is that potential awakenings occur disproportionately to minority and low income populations without the restriction



Comparison of 2017 Status Quo vs. Restriction







Spanish language translations of web site and handouts;
Spanish translators at study introduction public workshops

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Draft document available to the public

April 2012 (tentative)

Public comment opportunities

- 45-day public review period
 - Expected to begin in April 2012
- Comment docket for public inspection established at the start of the comment period and continued as long as LAWA pursues or enforces the restriction





Next Steps (dates tentative)

- Finalize draft document for release to the public April 2012
- 45-day public review period begins April 2012
- Public Workshop April 2012
- Roundtable Briefing May 9, 2012
- Final document for LAWA review and approval June 2012
- LAWA submits Part 161 document to FAA June 2012

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Questions



