Specific Plan Amendment Study South Airfield Improvement Project Community Outreach Meeting

Los Angeles World Airports
July 26, 2006



Agenda

- Community Outreach
- Project Purpose
- Aircraft Operations
- Aircraft Noise
- Runway Construction
- Project Mitigation
- Contact Information





Community Outreach

Tonight is the first in a series of three meetings regarding the SAIP

First Meeting – Prior to Runway Closure July 06
Construction Schedule, Mitigation Measures, Noise
Monitoring programs

Second Meeting – During Runway Closure July 06 – March 07
Updated Construction Schedule, Comments on Mitigation
Measures effectiveness, Updated Noise Monitoring programs
Third Meeting – After reopening of Runway 25L

Comments on Mitigation Measures, Updated Noise Monitoring results



Project Purpose

Safety- eliminate or reduce the number of runway incursions

Air Quality – Reduce the aircraft idle and taxi time

South Airfield project is not to accommodate new large aircraft (A380). The A380 could operate on the south side without the project





Roles and Responsibilities

- Federal Aviation Administration
 - Control of aircraft on the ground and in the air
 - Aircraft on ramps, taxiways and runways
 - Aircraft departure and arrival procedures (routes and altitudes) as well as enroute procedures

LAWA

- Maintenance of airport facilities (landside and airside)
 - Parking, terminals, leaseholds
 - Runways, taxiways, etc.
- Airport Planning
- Airport Facilities Development



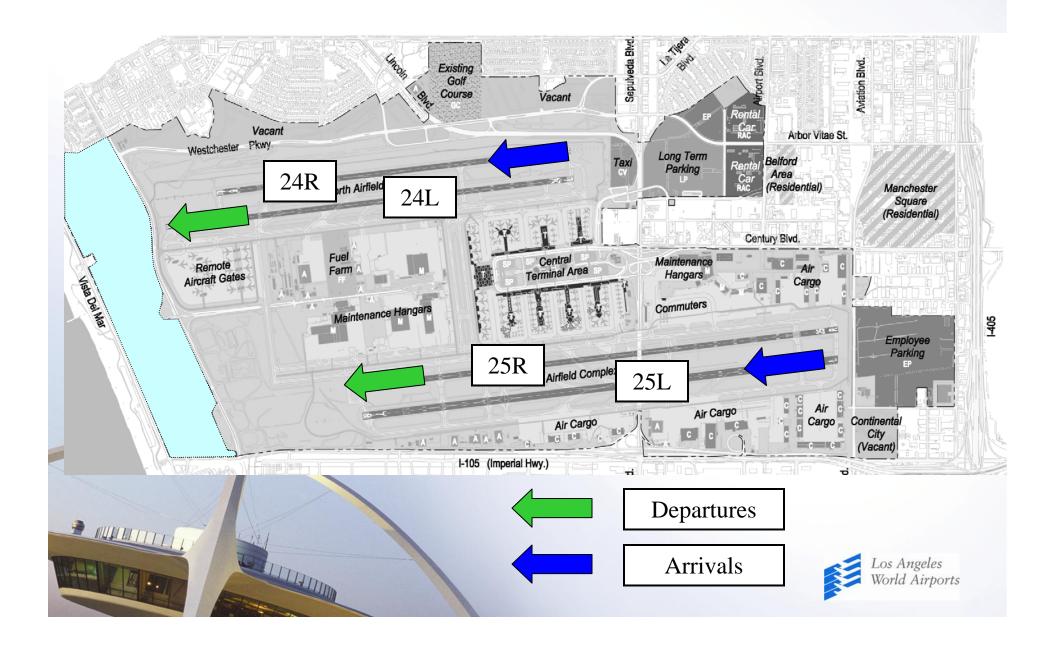
LAX Airport Operations

- Normal Procedures
 - Westerly Operations (6:30 a.m. to Midnight)
 - Aircraft depart and arrive to the west
 - Over Ocean Operations (Midnight to 6:30 a.m.)
 - Aircraft arrive to the east from over the ocean and depart to the west over the ocean
- Atypical Procedures
 - Easterly Operations
 - Aircraft depart and arrive to the east
 - Go-Arounds

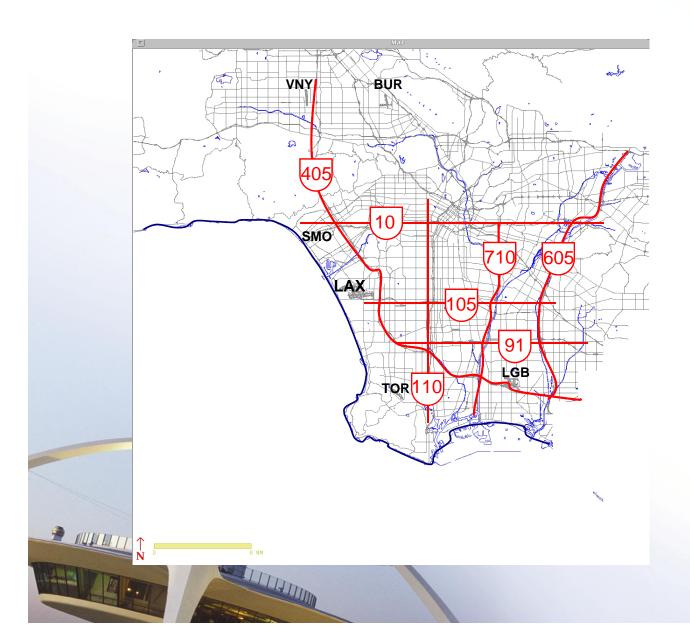




Normal Aircraft Operations-Primary Uses

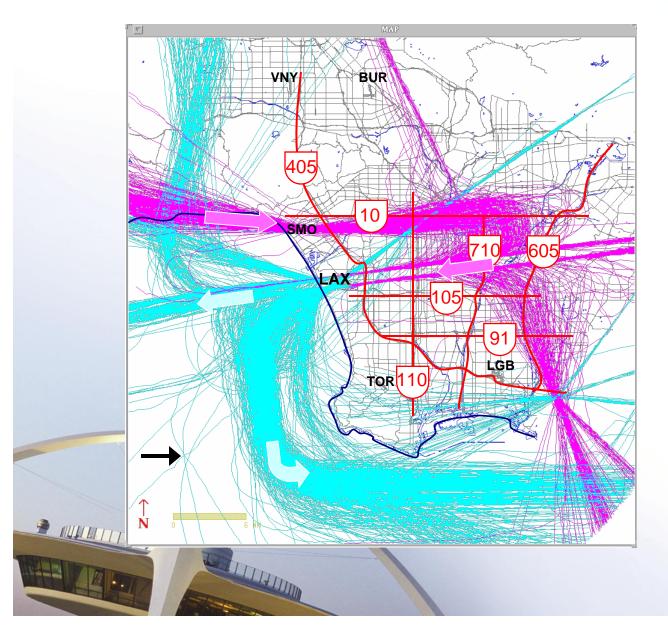


Westerly Operations





Westerly Operations

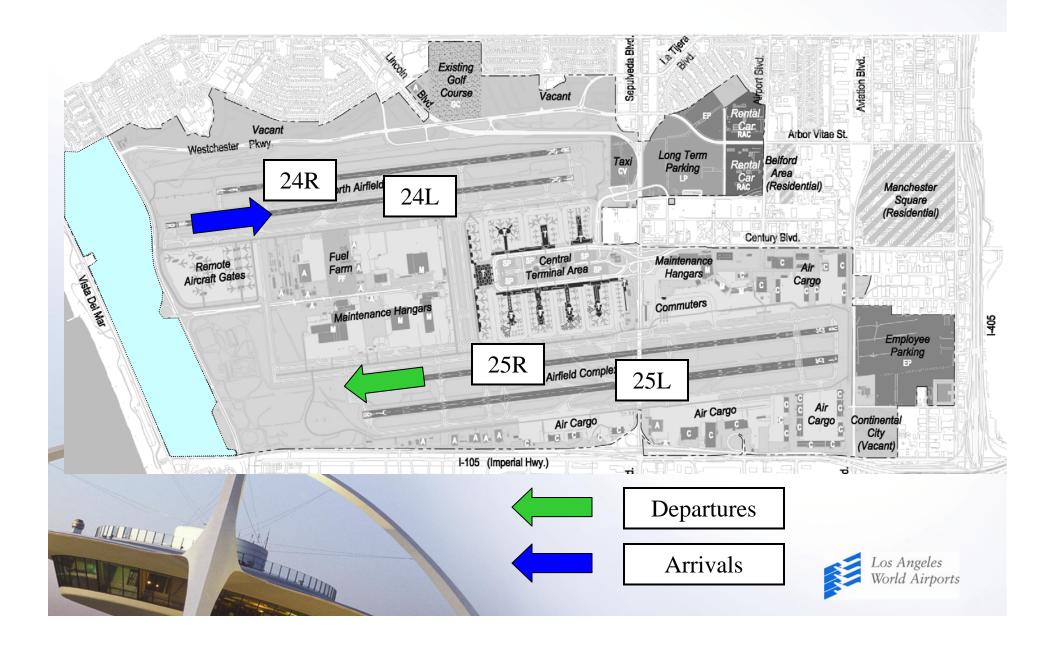


April 27, 2006 (6:30 a.m. to Midnight)

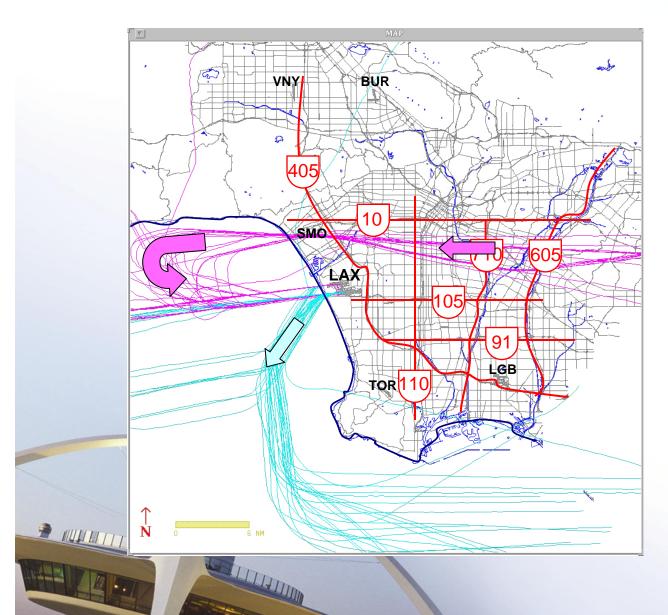
Purple Tracks – Arrivals Blue Tracks -Departures



Over Ocean Operations 12:00 a.m. - 6:00 a.m.



Over Ocean Operations

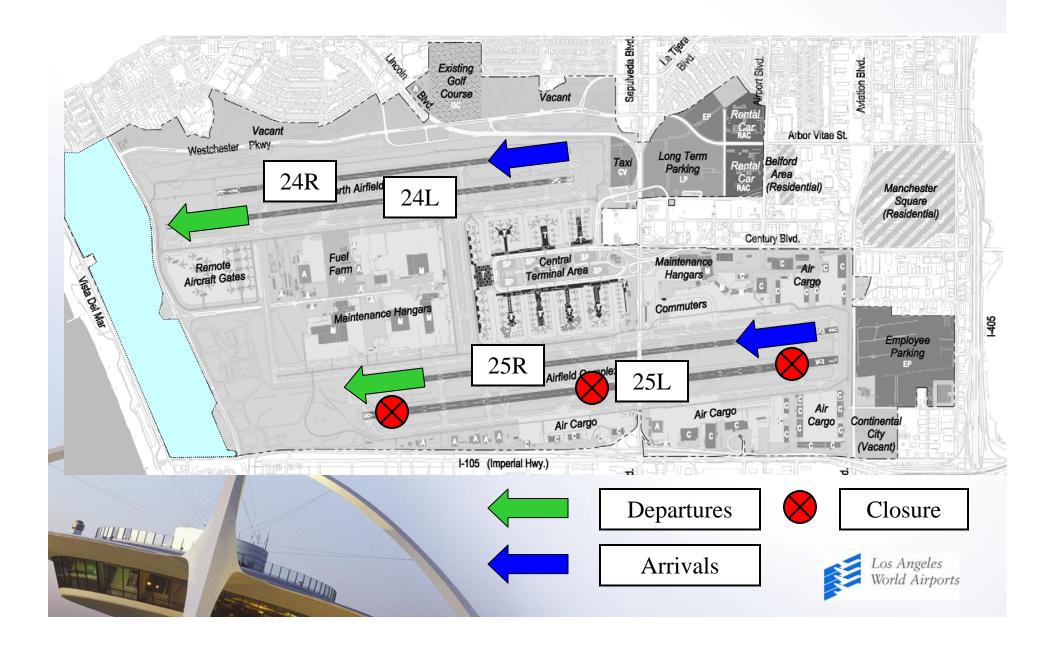


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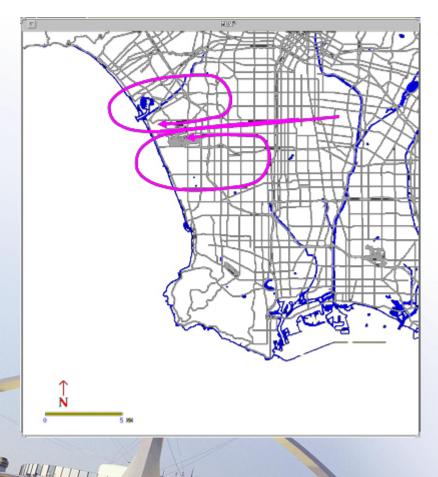
Purple Tracks – Arrivals Blue Tracks -Departures



Operations During Runway 25L Closure



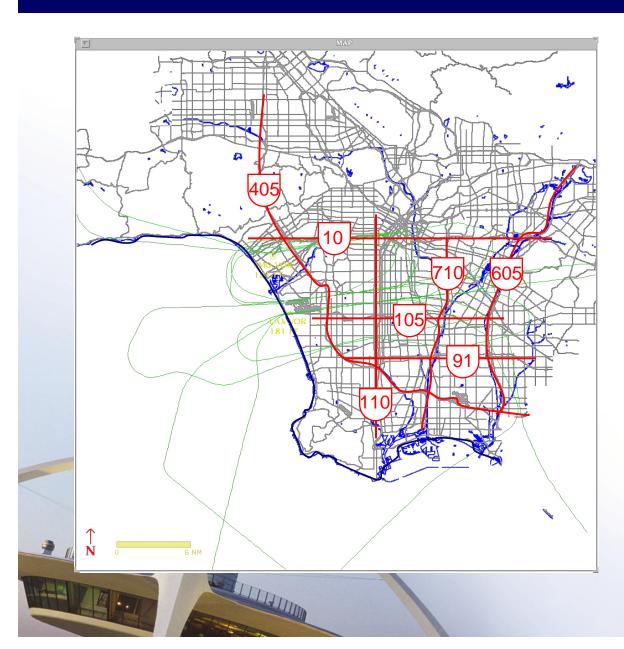
Go-Arounds



- Go-arounds or missed approaches occur when an aircraft cannot land and has to go back around and try again
- Causes or reasons for a goaround/missed approach is case specific
 - Pilot initiated (too high or fast)
 - FAA initiated (previous arrival, etc)
- Aircraft usually maintain runway heading until vectored (turned to a specified heading) by the FAA controller to make a U-turn to reenter the arrival route



Go-Arounds



April 3, 2006 – 6 Missed Approaches/Go Arounds

Runway 24R

- 1 Missed Approach (Pilot initiated)
- 2 Go Arounds (Controller initiated)

Runway 25L

3 Missed Approaches (Pilot initiated)



Go-Arounds



March 17, 2006 9:28 p.m.

Missed Approach Runway 24R

NWA B747 – Pilot initiated due
to Aircraft Equipment (gear)
problem. Turn north due to
previous departure on 24L.

Go Around Runway 25L

United B757 – Controller initiated (previous arrival lost radio contact crossing between runways). Turn south due to previous departure on 24L.

Purple Tracks – Arrivals Blue Tracks - Departures



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- Community Outreach
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- Aircraft Operations
- Aircraft Noise
- Runway Construction
- Project Mitigation
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Questions?





Noise Monitoring

- Normal Procedures
 - Westerly Operations (6:30 a.m. to Midnight)
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Basics of Sound

- Sound minute vibrations that can be sensed by the human ear through air or water
- Noise "unwanted" sound that disturbs our activities and/or quiet time
- Decibel (dB) logarithmic unit of measure for sound (addition of sounds: 70 dB + 70 dB = 73 dB)



Basics of Sound

- Intensity a measure of acoustic energy of sound vibrations (Volume)
 - A 10 dB increase is a doubling of acoustic energy/volume
- Frequency number of times per second the air vibrates (Pitch)
 - Lower frequency sounds go through walls and windows causing rattling
 - Higher frequency sounds usually stopped by walls and double paned/sound insulation type windows





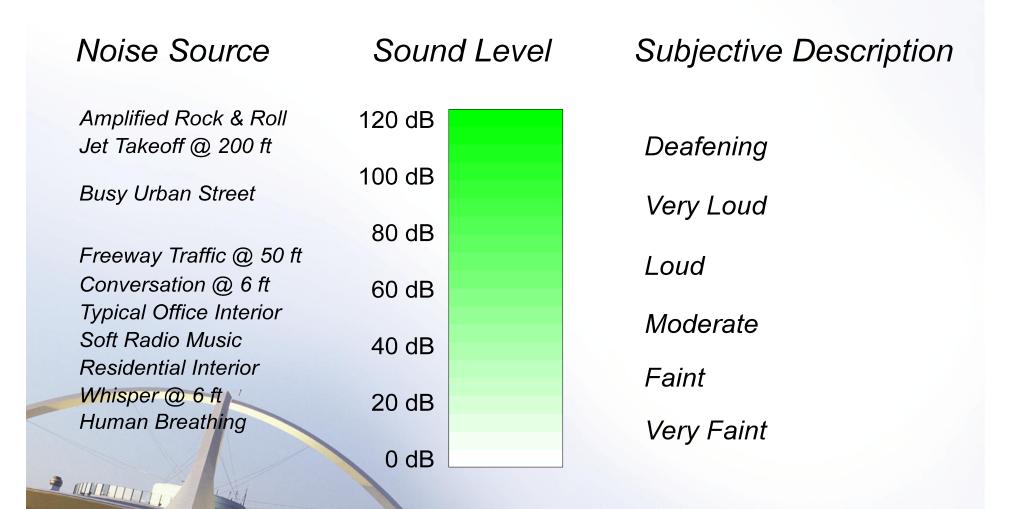
Reaction to Changes in Sound

Change in Level, dB	Subjective Reaction
1	Imperceptible (except for tones)
3	Just barely noticeable
6	Clearly noticeable
10	About twice (or half) as loud





Examples of Sound Levels



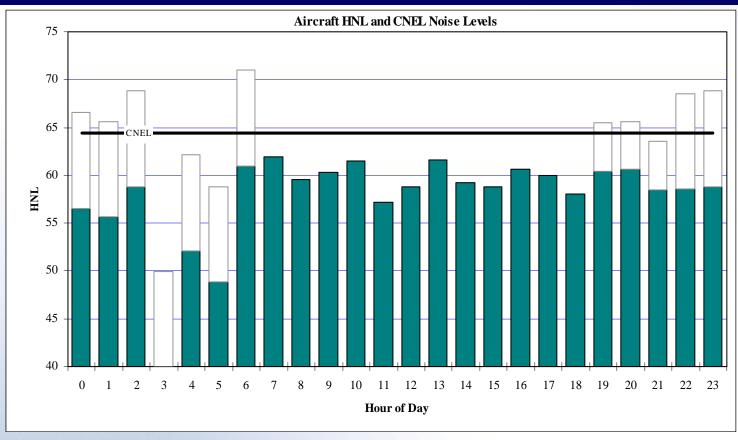
Noise Metrics

- Community Noise Equivalent Level (CNEL)
 - 24 Hour Weighted Average
 - Weighting for Evening (x3) and Night (x10) where noise is perceived to be louder





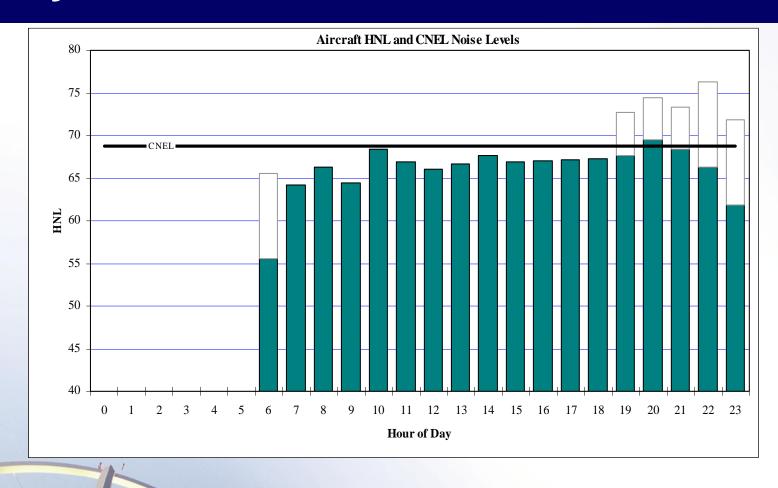
Daily CNEL – ES3







Daily CNEL – IN3





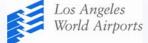
Noise Monitoring

- LAX currently has 25 permanent noise monitors positioned around LAX collecting data 24 hrs per day, 365 days per year
- Noise Monitoring System correlates FAA radar flight track operation information to measured noise levels to determine aircraft noise
- Measured aircraft noise levels are used to adjust the Integrated Noise Model (INM) contours to depict the Annual Average 65 dB CNEL noise contour

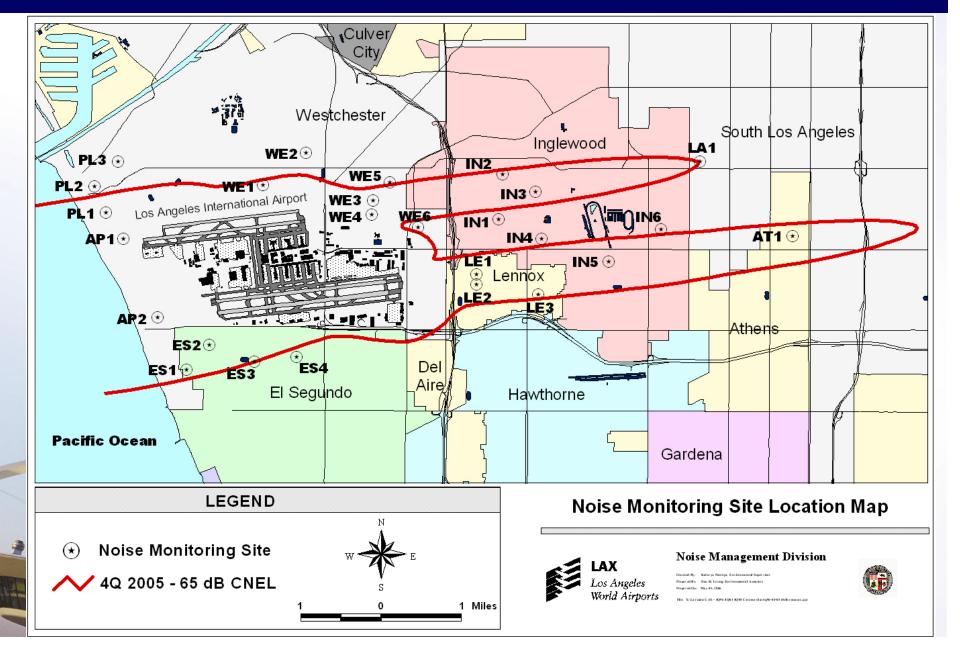


Existing Noise Monitoring Site

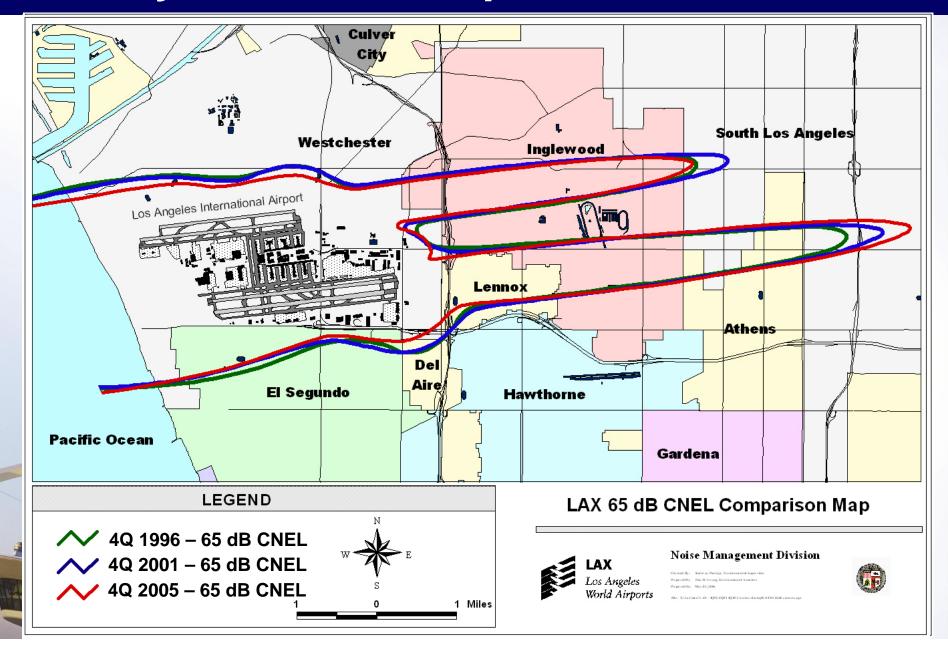




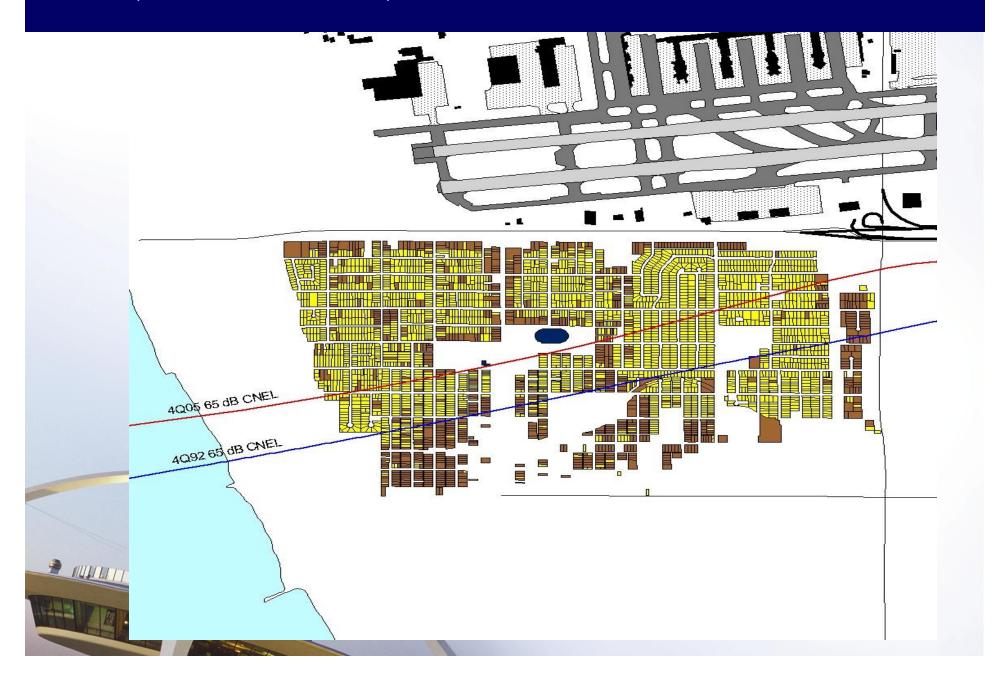
Existing Noise Monitoring Site Location



History of Noise Footprint



4Q1992 vs. 4Q2005 65CNEL



Questions?





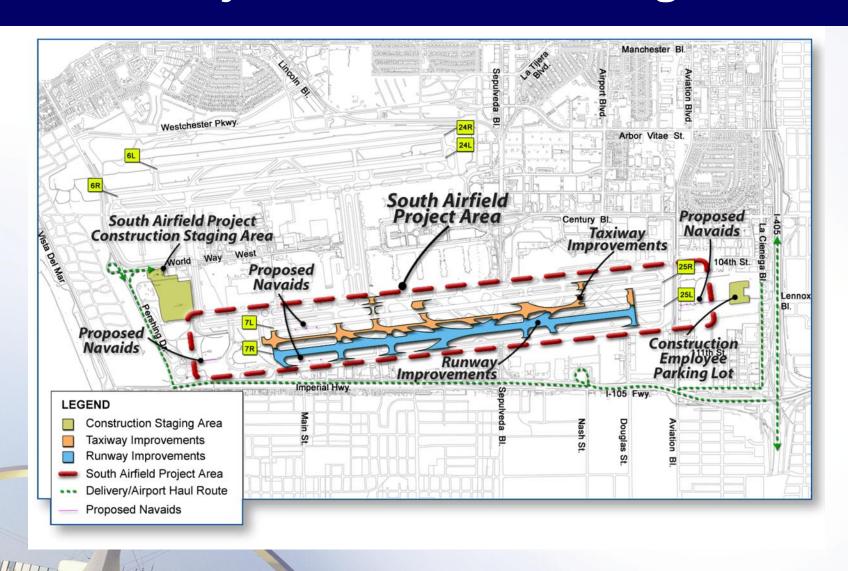
South Airfield Improvement Project Construction

Jake Adams, P.E. LAWA Program Manager



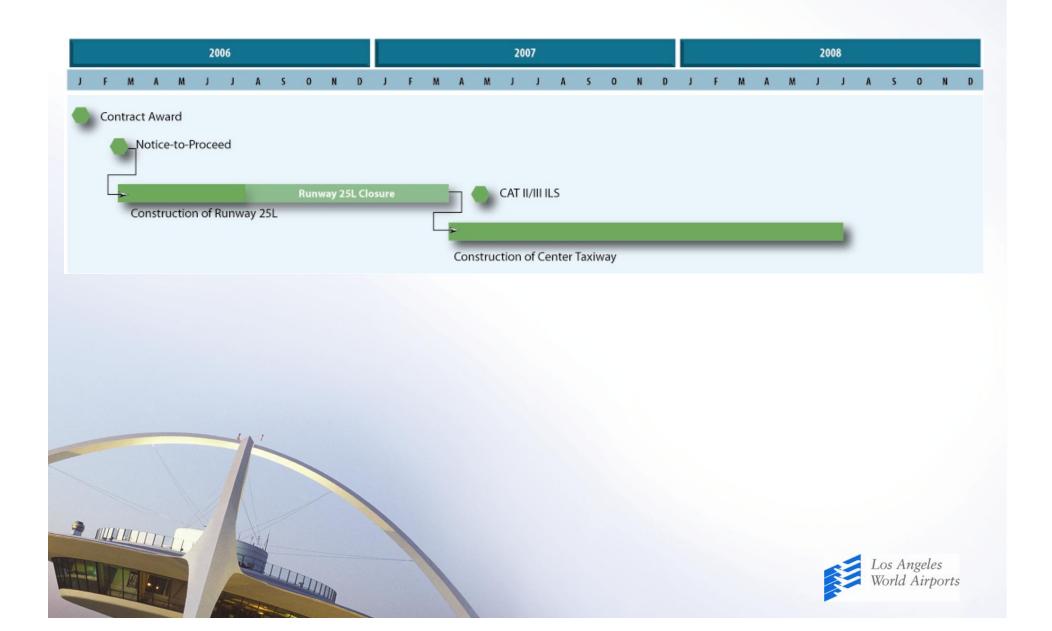


SAIP – Project Elements/Setting





SAIP Overall Project Schedule

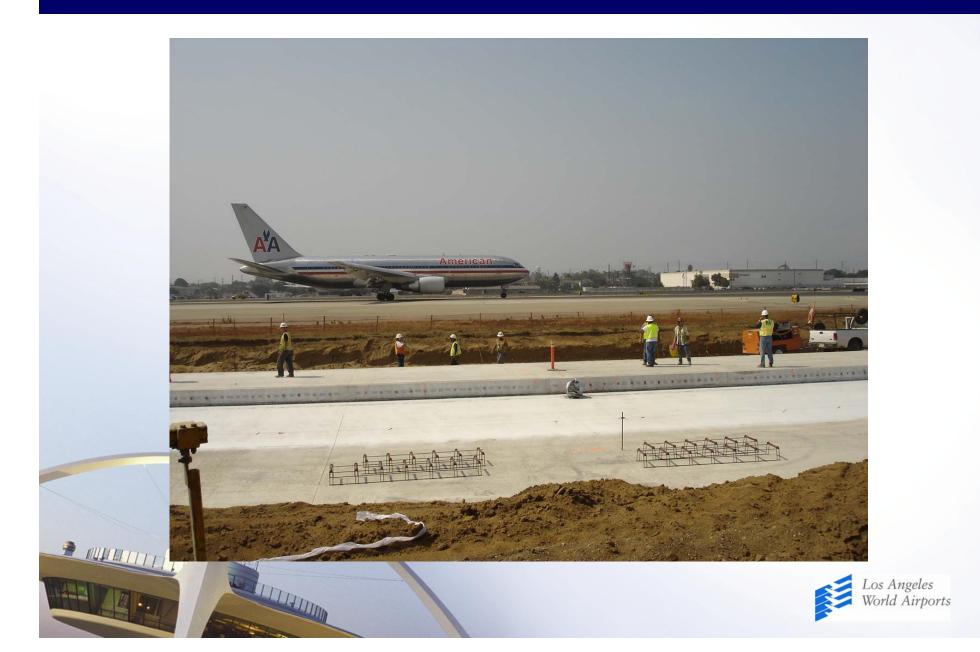


Phase 1 – Batch Plant





Phase 1 – Test Strip



Phase 1 – Utility Installations

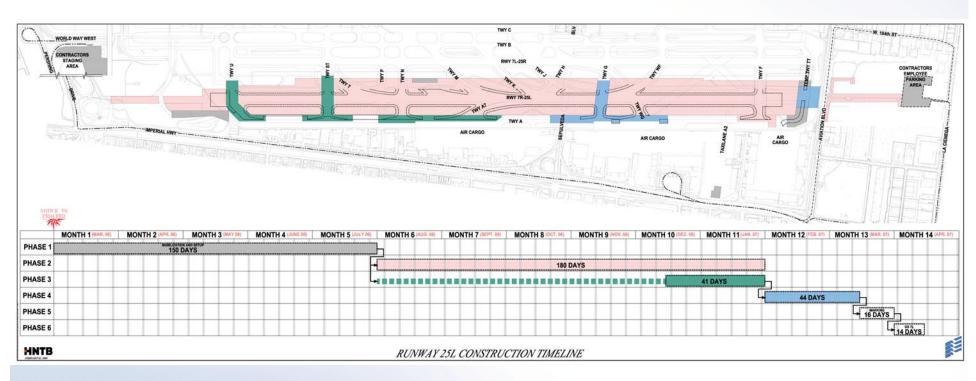




Phase 1 – Temporary Taxiway

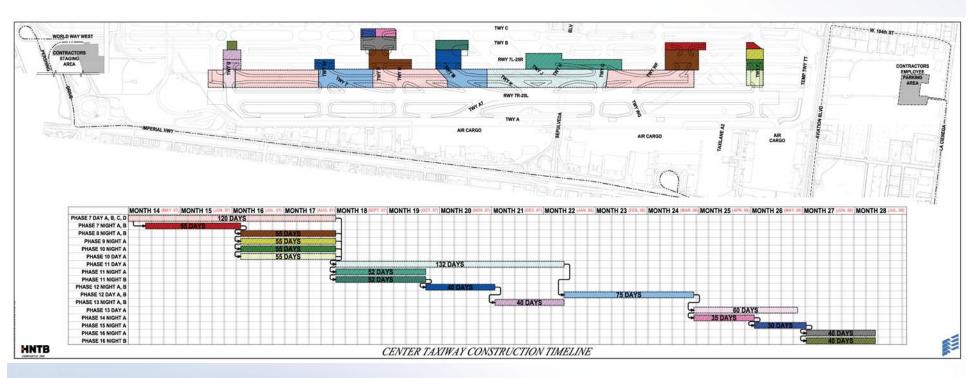


Package 1 – Phase/Schedule





Package 2 – Phasing/Schedule





Basis for Development of SAIP MMRP

- Settlement Agreement
- LAX Master Plan MMRP
- SAIP Project-Level Tiered Environmental Impact Report
- Other Mitigation Measures identified for SAIP Construction
 - Included as mandatory requirements in the construction contract.
 - Failure to meet requirements carry financial penalties (fines)





Specific Project Mitigation Measures

- The SAIP MMRP focuses on:
 - Air Quality
 - Construction Noise
 - Construction Traffic





Air Quality Measures

Vehicle idling rules





Air Quality Measures

- Proper maintenance of construction equipment
- Cleaner Burning Diesel Fuel ULSD
- Diesel Emission Reduction Where feasible, use of available BACT devices, for diesel equipment
- Replace older equipment





Air Quality Measures – BACT Devises











Air Quality Measures – New Equipment





Air Quality Measures

- Fugitive Dust Control Plan complies with AQMD Rule 403
 - Soil Stabilizers
 - Designated Stockpile locations and dust controls
 - 15 mph speed limit on unpaved areas
 - Proper maintenance of haul and delivery routes
 - Street Sweeping and Vacuuming
 - Watering



Air Quality – Fugitive Dust











Air Quality – Public Input



Construction Noise Measures

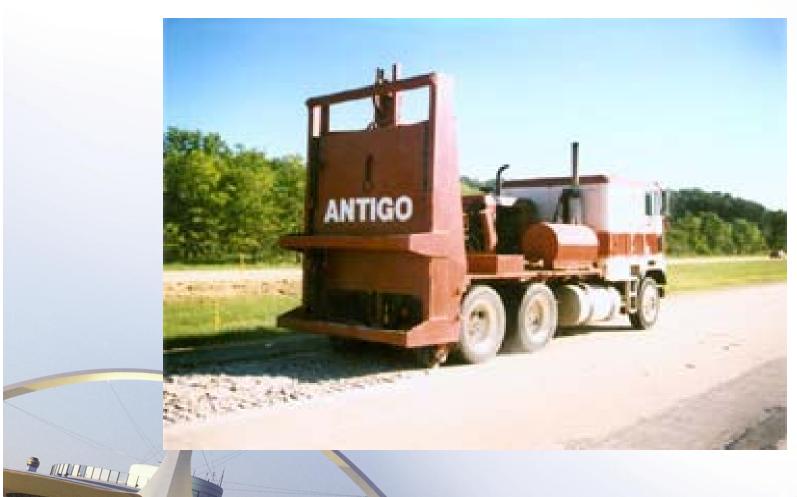
 Mandatory Construction Noise Control Plan (CNCP)

 Schedule noisiest construction activities outside noise sensitive times. (9pm-7am Weekdays; before 8am and after 9pm on Sat; anytime on Sundays or Holidays)





Contruction Noise – Pavement Breaker





Construction Noise – Hoe Ram





Construction Noise Measures

 Mandatory Construction Noise Control Plan (CNCP)

Locate staging areas and batch plant away from noise sensitive areas





Construction Noise – Staging Area



Construction Noise Measures

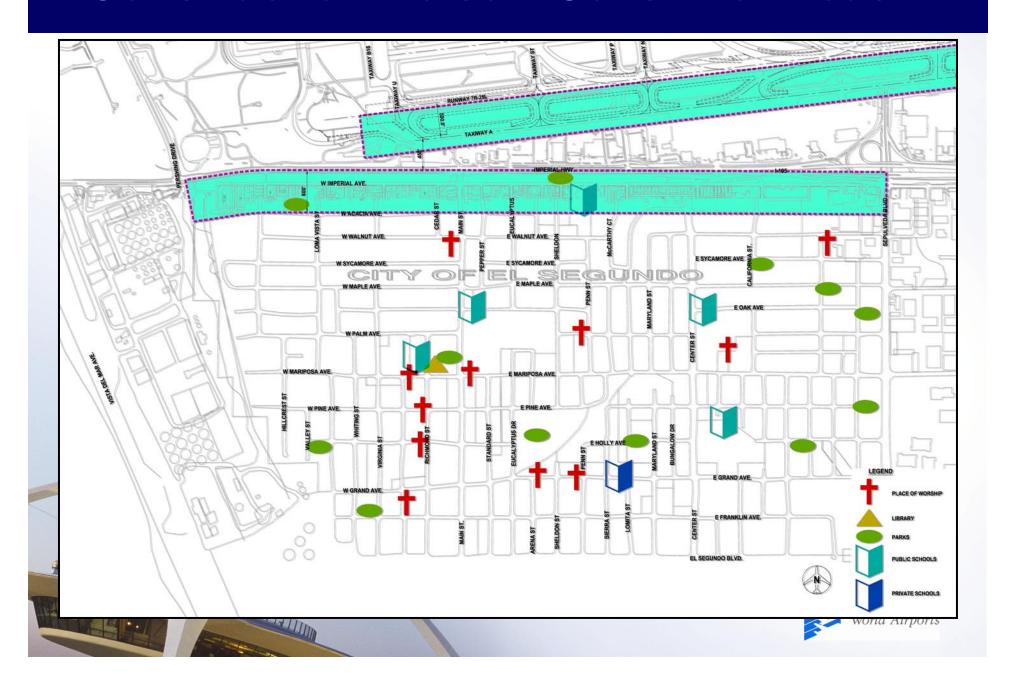
 Mandatory Construction Noise Control Plan (CNCP)

 Monitoring construction noise levels at various locations in the City of El Segundo





Construction Noise – Sensitive Areas



Construction Noise Measures

- Mandatory Construction Noise Control Plan (CNCP)
 - Violations of the CNCP will subject the Contractor to corrective measures and penalty fines
 - Equipment Mufflers
 - Enclosures/Barriers
 - Rectify or replace noisy equipments
 - Penalty fine of \$1,000 per day per occurrence



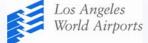
Construction Traffic Measures

- Mandatory Construction Traffic Management Plan.
- Additional Signage and Striping prior to construction
- Restrict Construction Delivery Times (avoid peak traffic periods of 7am-9am and 4:30pm-6:30pm)
- Construction employee shifts scheduled to avoid peak traffic periods.
- Construction employee parking offsite and shuttles to jobsite



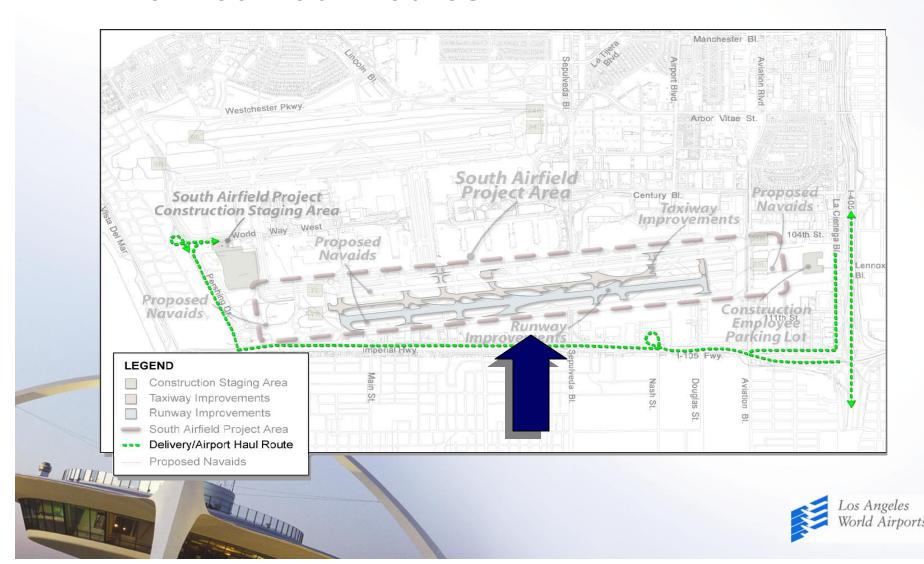
Construction Traffic – Shuttle Bus





Construction Traffic – Haul Routes

Defined Haul Routes



Contact Information for Public Comments

Dust Complaints – (310) 491-3100
 Active

Construction Noise – (866) 758-LAWA(5292)

Will be activated on 7/28/06

- Aircraft Noise 310-646-9410 or 310-646-6473
 Active
- Construction Traffic (310) 417-2311
 Active
- Website www.LAWA.org

Click on "LAX" then
Click on "SAIP Construction" on left side of page
Site will be activated on 7/28/06



Questions?





Airport Noise Standards

- California Code of Regulations, Title 21, Subchapter 6
 - Noise Problem Airport
 - Standard metric for reporting: CNEL
 - Noise Impact Boundary: 65 dB CNEL noise contour
 - Noise Impact Area: Incompatible land uses within Noise Impact Boundary
 - Requires noise monitoring and submittal of quarterly reports
- Variance requirements



State Noise Variance

- Noise Problem airport required to apply for a Title 21 Variance to continue operating
- Process administered by State of California
 - Negotiation
 - Public Hearing
 - Legal procedure before Administrative Law Judge
 - Public represented by Intervenors
 - Maximum term of Variance is 3 years



State Noise Variance

Current LAX Variance:

- Stipulated Variance issued June 21, 2005
- LAWA agreed to the following:
 - Report on progress of mitigation programs
 - Continue all existing noise abatement policies
 - Additional reports, including runway usage
 - Reports of enforcement actions related to maintenance curfew
 - Providing additional information re: A380 when available



Glossary

SPAS - Specific Plan Amendment Study

SAIP - South Airfield Improvement Program

MMRP - Mitigation Monitoring and Reporting

Program

(CNCP) - Mandatory Construction Noise

Control Plan

CNEL- Community Noise Equivalent Level





Existing Conditions



Alternative D



