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

IIIII

- 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

ALL LINK

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



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

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



Agenda

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



Questions?



Noise Monitoring

- 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



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 Source	Sound Level		Subjective Description
Amplified Rock & Roll Jet Takeoff @ 200 ft	120 dB		Deafening
Busy Urban Street	100 dB		Very Loud
Freeway Traffic @ 50 ft	80 dB		Loud
Conversation @ 6 ft Typical Office Interior Soft Radio Music	60 dB 40 dB		Moderate
Residential Interior Whisper @ 6 ft	20 dB		Faint
Human Breathing	0 dB		Very Faint
			The Annal



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

MULLITI





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

ALL FILLIN

- Mandatory Construction Noise Control Plan (CNCP)
 - Locate staging areas and batch plant away from noise sensitive areas



Construction Noise – Staging Area



Construction Noise Measures

ALL FILLIN

- 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 – <u>www.LAWA.org</u>

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

MILLIT

- **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

