Status Update on Airspace Redesign Project

LAX Community Noise Roundtable
November 10, 2010
Airspace Redesign Overview

• Purpose
• FAA Prioritization Method – Metroplex
• Noise Implications
• Environmental Considerations
• Discussion
Airspace Redesign - Purpose

- Reduce airspace congestion
- Increase system capacity
- Reduce delays at airports
- Improve safety and efficiency

Airspace redesign and NextGen are interrelated
Vision for NextGen/Airspace

- Improvements to the air transportation system will be achieved by:
  - Space-based navigation and integrated surveillance
  - Digital communications
  - Layered adaptive security
  - Weather integrated decision-making
  - Advanced automation of Air Traffic Management
  - Net-centric information access for operations
NextGen Prioritization - Metroplex
Prioritization Criteria

- **Operational Need**
  - “Opportunities to optimize throughput, improve flexibility, enable fuel-efficient climb and descent profiles, and increase capacity at the most congested metroplex areas”
  - “high-benefit RNAV operations”

- **Site-readiness:**
  - “Locations that have embraced Performance-Based Navigation (PBN), or are willing to adopt it”

- **Environmental considerations:**
  - “Opportunities to reduce emissions and aircraft noise impacts should be leveraged”
# Prioritization Criteria Metrics

| Operational Need          | • Average scheduled gate arrival delay  
|                          | • Average scheduled airport departure delay  
|                          | • Average ASPM gate arrival and airport departure delays  
|                          | • Average daily OPSNET operations  
|                          | • OPSNET delays as % of Operations  
| Site Readiness           | • % of RNAV equipped aircraft  
| Environmental Consideration | • Highest potential for OPD benefit  
|                          | • Complexity of OPD implementation  

Los Angeles World Airports
<table>
<thead>
<tr>
<th>Phase</th>
<th>Purpose/Metroplex</th>
<th>Schedule</th>
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<tbody>
<tr>
<td>Phase 1: Mock Study</td>
<td>Explore Study Team Concept, Denver Airport</td>
<td>April 2010-May 2010</td>
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<tr>
<td>Team</td>
<td></td>
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<td>Phase 2: Prototype</td>
<td>Develop Study Team, while working on projects in</td>
<td>Beginning September</td>
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<td>Study Team</td>
<td>Dallas and Washington DC</td>
<td>2010</td>
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<tr>
<td>Phase 3: Mature Study</td>
<td>Full team concept, multiple team execution</td>
<td>Beginning FY11</td>
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<tr>
<td>Teams</td>
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<td>(October 2010)</td>
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Noise Implications

• In many areas, flights will be reduced or eliminated
• In some areas, flights will be more concentrated
• Environmental (noise) analysis is still needed to identify those areas
Post-Implementation Arrival Flight Track Density
Environmental Considerations

• FAA in process of developing NEPA guidance for NextGen implementation
• FAA plans to have NEPA guidance available shortly
• FAA is adding resources to accelerate NEPA review
Discussion

• Better adherence to flight procedures
• Fewer people subjected to overflights
• More occurrences to those under flight paths
• Changes likely noticed miles from airports
• Changes are coming…

Questions/Discussion