LAX Community Noise Roundtable

Aviation Noise News Update

November 10, 2010
Aviation Noise Grows Slower than Ops

• According to ICAO’s Committee on Aviation Environmental Protection (CAEP):
  – Worldwide, the total number of people exposed to aircraft noise greater than DNL 55 dB will increase through 2036 – about 1% per year
  – The increase in passenger traffic is expected to be about 5% per year during the same time

• Report: “Present and Future Aircraft Noise and Emissions Trends”:
Systematically addressing environmental impacts and community concerns can help airports reduce project delays

**Report addresses:**
- Airports’ actions to reduce impacts
- Extent airports believe environmental issues delay development or operational changes
- Strategies airports can adopt to address environmental issues

Report on Technologies for a Quieter America

- The National Research Council and National Academy of Engineering released a report: “Technology for a Quieter America”
- The report explores:
  - Most commonly identified noise sources
  - How they are characterized
  - Efforts made to reduce noise
- Report recommends reducing the U.S. federal agency limit on DNL from 65 to 55 dB

http://www.nap.edu/catalog.php?record_id=12928
Swiss Study Links Noise to Heart Attacks

- The risk of men dying from heart attack was found to be:
  - 30% greater in people exposed to aircraft noise of 60 dB or greater
  - 50% greater in people exposed to aircraft noise of 60 dB or greater for 15 years or longer
- The risk of women dying from heart attack was not linked to aircraft noise
- See October 22, 2010 issue of the Airport Noise Report
PARTNER Research Projects

• Quantifying potential noise metrics to apply to open rotor engine architecture as designs are developed
• Demonstrating how a software tool could help assess technologies proposed under CLEEN
• Examining the effect of typical dwellings on indoor sound levels
• Evaluate flight management simulation tool for CDA analysis
• Quantify fuel savings and economic benefits from CDA operations

http://web.mit.edu/aeroastro/partner/index.html
NASA Seeks Proposals

- Research opportunities at NASA has been modified to include new topics in support of aircraft noise and emissions reduction
- Educational institutions, nonprofit organizations and industry engaged in foundational research will be the primary award recipients
- Proposals are due to NASA by November 30, 2010

http://nspires.nasaprs.com
Communities Must Be Engaged

- Clear message from the Performance-Based Navigation (PBN) Summit in Seattle last month:
  - Communities must be engaged in the process of moving to PBN
  - Aviation industry officials need to meet with community groups and be ready for tough questions
TV Advertisement on NextGen

- GE is running a television ad that uses a cliff diver to visually depict the benefits of its Flight Management System (FMS)
- The ad can be viewed at:
  
  click on “Cliff Diver”
Tax Credit Bill Proposed

• Representative McCarthy (D-NY) introduced:
  – Noise Reduction Act of 2010 (H.R. 6364)
    • To provide a tax credit for individuals and families that insulate their homes from airplane or train horn noise
Minneapolis Approves 60 DNL Threshold

- Minneapolis City Council Transportation and Public Works Subcommittee approved the 60 DNL as threshold for noise mitigation efforts
  - The goal of the airport noise mitigation program in the 60-64 DNL is to:
    - Reduce speech interference
    - Moderate annoyance
    - Alleviate sleep interference
  - Noise attenuation shall be based on a goal of an interior maximum sound level of 45 dB from aircraft operations