

# **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”:

[http://www.icao.int/icao/en/assembly/a37/wp/wp026\\_en.pdf](http://www.icao.int/icao/en/assembly/a37/wp/wp026_en.pdf)

# GAO Report – Environmental Impacts

- **September 13, 2010 Report to Congress**
  - **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**

<http://www.gao.gov/products/GAO-10-50>

# 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](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:**

**<http://www.ge.com/company/advertising/index.html>**  
**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**