

LAX Community Noise Roundtable

Work Program Item C6

Review/Suggest ACRP FY2013 Problem
Statements for Research Consideration

13-02-01: Assessment of Acoustical Evaluation Methods for Sound Insulation Programs - Jack Freytag (Freytag & Associates)

- **Research Proposed:** The research would assess acoustical evaluation methods used in sound insulation programs to respond to changes in the FAA's Program Guidance Letter (PGL).
 - Funding Requested: \$400,000
 - Recommended Allocation: \$0
- **ACRP Review Panel: Not Recommended** - FAA has not released the new PGL for sound insulation programs, so the need for the type of research is unclear. In addition, the proposed research overlaps with Problem Statement 13-02-11 – Noise Measurement Procedure for Federally Funded Airport Sound Insulation Programs.
- **ESA Airports: Not Recommended** - Given the absence of a final FAA PGL, the benefits of this research are uncertain. Also, this problem statement overlaps with Problem Statement 13-02-11, Noise Measurement Procedure for Federally Funded Airport Sound Insulation Programs, which is a superior problem statement on the same topic.

13-02-06: Evaluation of Single Event Aircraft Noise Events on Noise Annoyance - Jonathan Collette (Division of Aviation, City of Philadelphia)

- **Researched Proposed:** The research would study the relationship between repetitive low sound level noise events (40-55 Lmax) and annoyance. The proposed research would take place in both the laboratory and residential setting. The proposer states, “An understanding as to how repetitive low-intensity aircraft noise relates to annoyance is essential for airport operators to evaluate their noise abatement strategy in light of increased use of RNP and RNAV procedures.”
 - Funding Requested: \$500,000
 - Recommended Allocation: \$0
- **ACRP Review Panel: Not Recommended** - ACRP review panel believes that other ongoing work in this area by PARTNER and FAA may cover the requested research. ACRP believes the research would not result in a useful product for airports.
- **ESA Airports: Not Recommended** - While the proposed research is admirable in light of the implementation of NextGEN procedures over the next decade, the research appears to be duplicative of ongoing dose-response studies. It may be appropriate to modify and resubmit this problem statement when those studies are complete.

13-02-08: First-Generation Multimodal Transportation Environmental Analysis Tool - Tom Connor (Wyle)

- **Research Proposed:** The research would result in the development and testing of a multimodal transportation environmental analysis tool that could be used to assess multiple sources of transportation noise near an airport.
 - Funding Requested: \$650,000
 - Recommended Allocation: \$0
- **ACRP Review Panel: Not Recommended** - ACRP review panel believes that several other ongoing efforts to produce multimodal tools. ACRP also states that airports are required to use specific modeling tools.
- **ESA Airports: Recommended** - Given the extensive freeway system, arterial network, and light rail in the vicinity of LAX, future environmental analyses would benefit from the availability of a single multimodal environmental modeling tool. The proposal is to utilize existing approved models, so existing work on models such as the Airport Environmental Design Tool can progress unimpeded.

13-02-11: Noise Measurement Procedure for Federally Funded Airport Sound Insulation Programs - Ben Sharp (Wyle)

- **Research Proposed:** The proposed research would develop standard methodologies for assess the need for sound insulation and to determine if improvement in noise reduction would meet FAA's requirements.
 - Funding Requested: \$350,000
 - Recommended Allocation: \$0
- **ACRP Review Panel: Not Recommended** - Although the ACRP felt that Problem Statement 13-02-11 was the more appropriate problem statement (as opposed to 13-02-01), ACRP staff felt that the research need was premature pending release of the FAA's new PGL for sound insulation programs. The proposed research overlaps with Problem Statement 13-02-11 - Noise Measurement Procedure for Federally Funded Airport Sound Insulation Programs.
- **ESA Airports: Not Recommended** - Given the absence of a final FAA PGL, the benefits of this research are uncertain. It would be best to wait until FAA issues its final Program Guidance Letter and then prepare a problem statement that responds to any research needs that arise.

13-02-13: Guidance Document for Helicopter Community Noise Prediction - Juliet Page (Wyle)

- **Research Proposed:** The research would produce a guidance document describing an integrated method for conducting helicopter noise predictions, which would provide a consistent approach to helicopter noise modeling and make helicopter noise analyses more reliable.
 - Funding Requested: \$100,000
 - Recommended Allocation: \$250,000
- **ACRP Review Panel: Highly Recommended** - ACRP review panel believes that airports would benefit from a helicopter noise modeling guidance document.
- **ESA Airports: Recommended** - There has been a heightened attention to helicopter noise issues in Los Angeles County and there is a definite need for improved helicopter noise modeling guidance. While helicopter noise is not a major issue for LAX, the surrounding communities stand to benefit from improved helicopter noise modeling guidance.