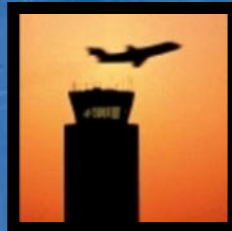


TRANSPORTATION

ACRP

Airport Cooperative Research Program



Introduction to ACRP

Joe Navarrete, Senior Program Officer

Monday, March 14, 2011

THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine

National Academy of Sciences
National Academy of Engineering
Institute of Medicine
National Research Council

RESEARCH BOARD

Agenda

- 1) National Academies
- 2) Transportation Research Board
- 3) Airport Cooperative Research Program
- 4) ACRP Noise Studies
- 5) How to Get Involved
- 6) Questions



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RESEARCH BOARD



National Academy of Sciences, 1863

The National Academies

Private, Nonprofit Research Institution

Academy of
Sciences

Academy of
Engineering

Institute of
Medicine

National Research Council

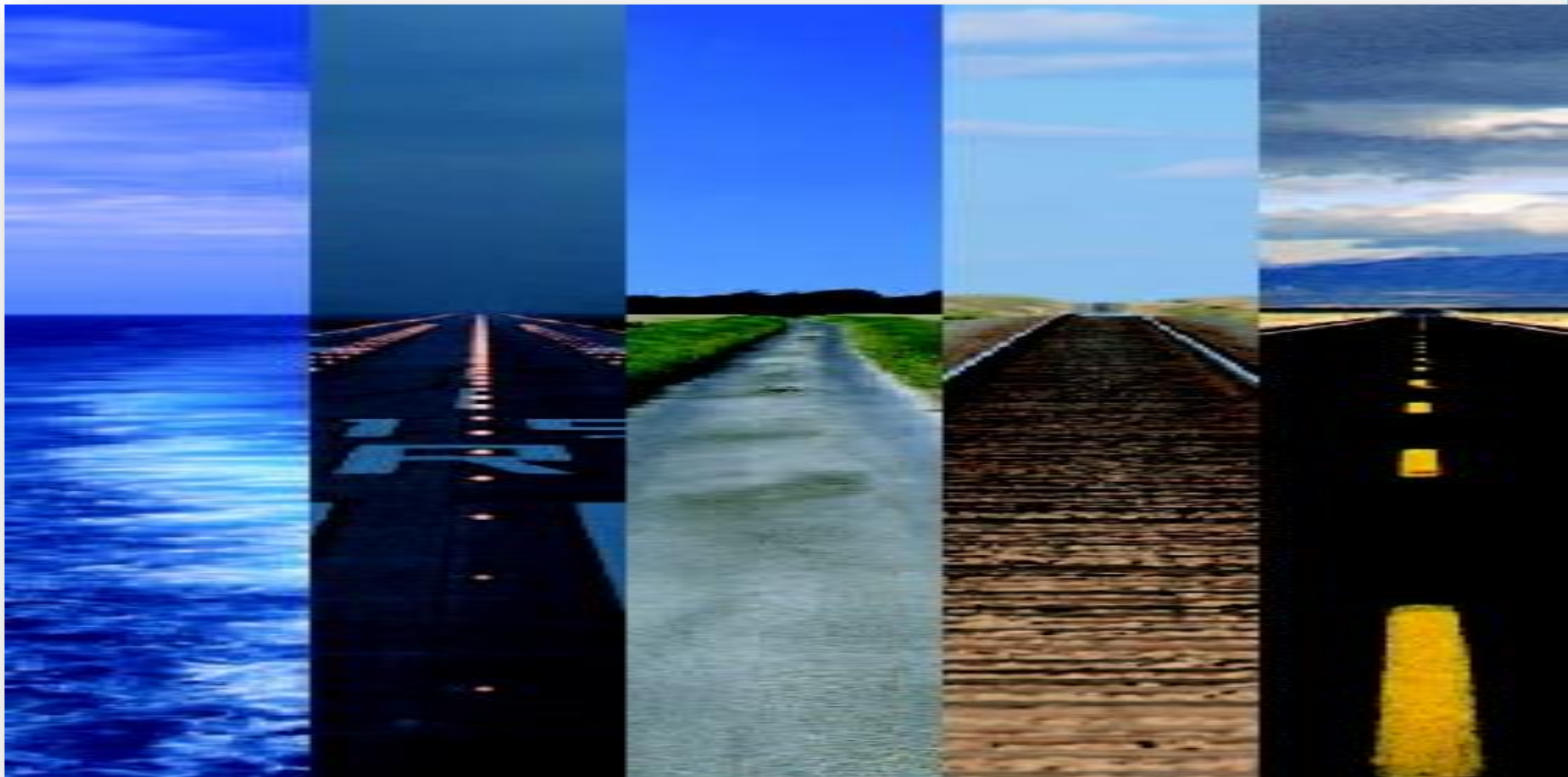
Divisions, Boards, and Offices

Transportation Research Board



TRANSPORTATION

Includes all Modes



RESEARCH BOARD



TRANSPORTATION

RESEARCH BOARD

Transportation Research Board

Division A
Technical Activities

Division B
*Studies and
Special Programs*

Division C
*Administration
and Finance*

Division D
*Cooperative
Research Programs*

Division E
*Strategic Highway
Research Program*

NCHRP TCRP
ACRP NCFRP
HMCPR

Airport Cooperative Research Program

- **Authorized by Congress**
- **Sponsored (funded) by FAA**
- **Driven by and for the airport industry**
- **ACRP Oversight Committee reviews, selects, and funds projects**
- **Projects focus on applied research**
- **Volunteer panels develop scope, select contractors, oversee research, and review results**
- **Research contractors selected on a competitive proposal basis**

ACRP Oversight Committee

Chair: James Wilding, Metropolitan Washington Airports Authority (Ret.)

Vice Chair: Jeff Hamiel, Minneapolis-St. Paul Metropolitan Airports Comm.

Members: James Crites, Dallas-Fort Worth International Airport
Richard de Neufville, Massachusetts Institute of Technology
Kevin Dolliole, Unison , Inc.
John Duval, AAE, Austin Commercial
Steve Grossman, Jacksonville Aviation Authority
Tom Jensen, National Safe Skies Alliance
Catherine Lang, Federal Aviation Administration
Gina Marie Lindsey, Los Angeles World Airports
Carolyn Motz, Hagerstown Regional Airport
Richard Tucker, Huntsville International Airport
Kitty Freidheim, Freidheim Consulting

ACRP Oversight Committee (cont'd)

Ex Officio Members:

Paula Hochstetler, Airport Consultants Council

Sabrina Johnson, U.S. Environmental Protection Agency

Richard Marchi, Airport Council International—NA

Laura McKee, Air Transport Association of America

Henry Ogrodzinski, National Association of State Aviation Officials

Robert Skinner, Transportation Research Board

Melissa Sabatine, American Association of Airport Executives

Secretary: Christopher Jenks, Transportation Research Board

ACRP Current Status

201 research projects authorized

- 24 FY 2011
- 85 in progress
- 92 completed ➡ 76 publications

Over 700 industry volunteers participating

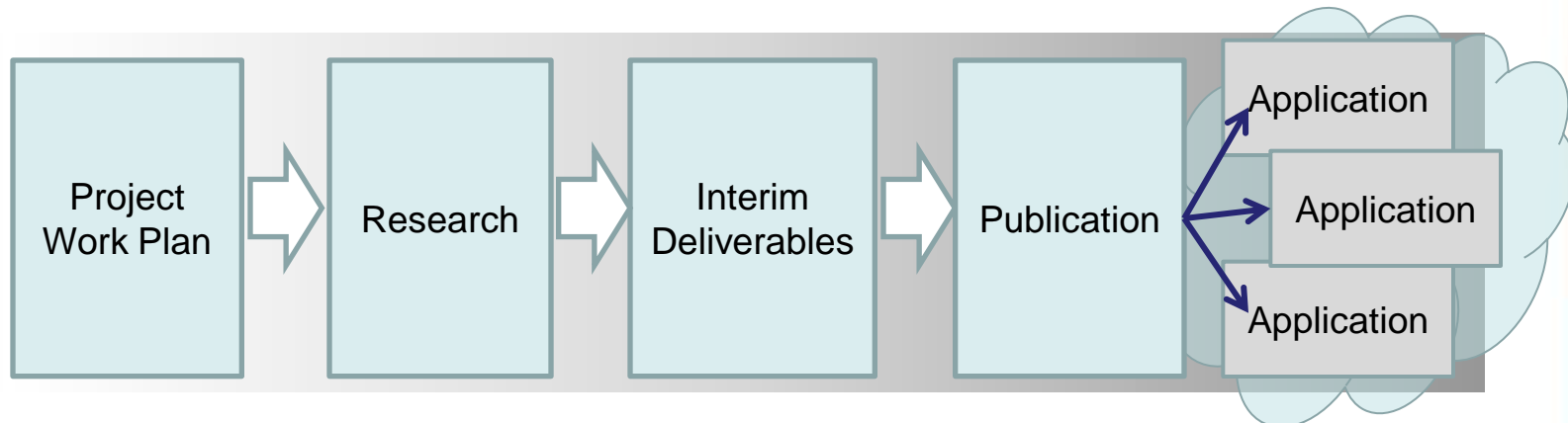
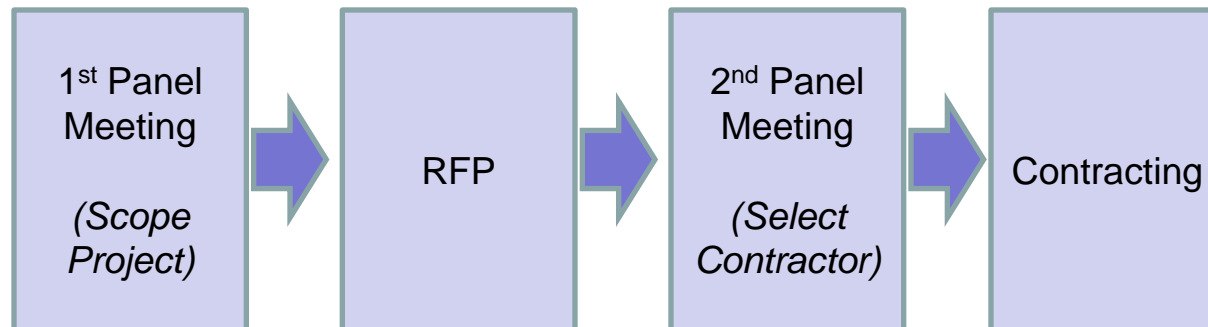
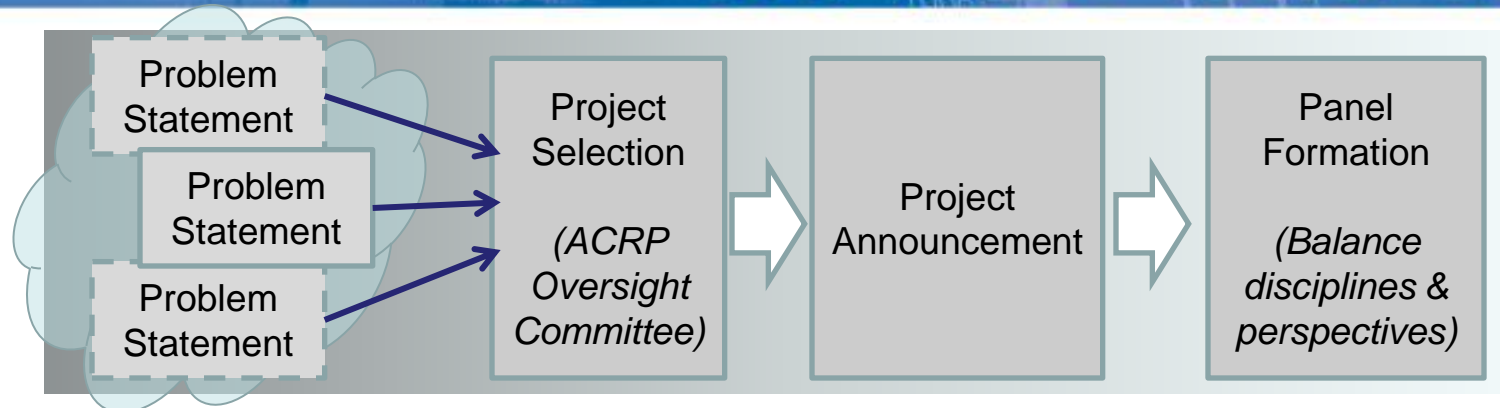
- Participants come from airports, airlines, consultants, academics, state and federal government, and industry associations

Dozens of research contractors from industry

Research Process

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RESEARCH BOARD



ACRP Noise Related Studies

Report 15: Aircraft Noise: A Toolkit for Managing Community Expectations

02-09: Developing a Comprehensive Work Plan for a Multimodal Noise & Emissions Model

02-12: Environmental Optimization of Aircraft Departures: Fuel Burn, Emissions, and Noise

02-24: Guidelines for Airport Sound Insulation Programs

02-26: Assessing Aircraft Noise Conditions Affecting Student Learning

02-27: Aircraft Taxi Noise Database for Airport Noise Modeling

02-31: Assessing Acoustical Materials Used in Airport Residential Sound Insulation Programs

02-35: Understanding Public Perception of Aircraft Noise & Noise Induced Sleep Disturbance

ACRP Noise Related Studies (Cont'd)

Report 27: Enhancing Airport Land Use Compatibility

11-01/01-05: Responsibility for Implementation & Enforcement of Airport Land-Use Zoning Restrictions

11-01/02-02: Use & Success of Avigation Easements & Other Tools for Airport-Compatible Land Use and Development of Model Language

11-01/02-03: Case Studies on Community Challenges to Airport Development

11-01/03-01: Fair Disclosure of Airport Impacts on Real Estate Transfers

11-03/S02-01: Effects of Airport Noise: Research Update on Selected Topics

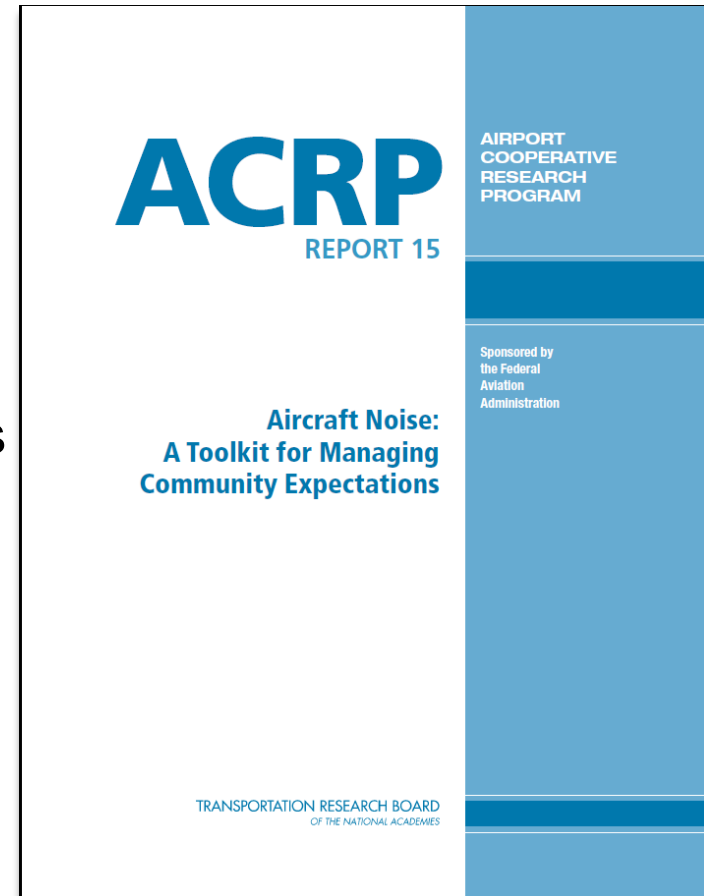
11-03/S02-03: Compilation of Noise Programs in Areas Outside DNL65

Report 15 – Aircraft Noise: A Toolkit for Managing Community Expectations

ACRP Project 02-05

Research Contractor: Landrum & Brown

- Identifies characteristics of effective communication program
- Provides information about noise and its abatement to assist in responding to public inquiries
- Identifies tools to initiate or upgrade communication program
- CD-ROM contains a toolkit with example material and guidance documents

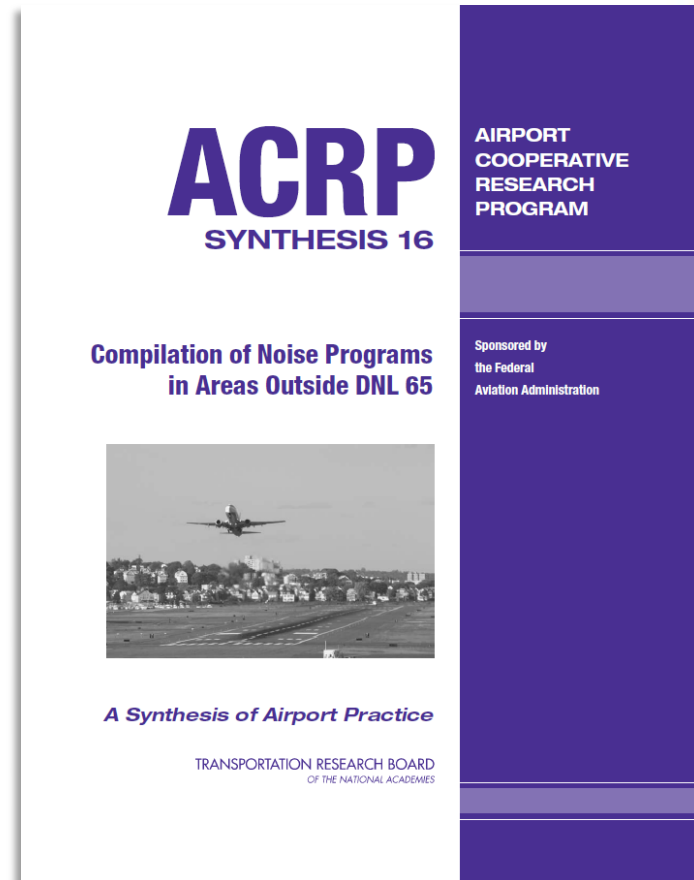


Synthesis 16—Compilation of Noise Programs in Areas Outside DNL65

ACRP Project 11-03/S02-03

Research Contractor: Arup

Explores alternative actions currently used by airports to address noise outside the DNL (Day–Night Average Noise Level) 65 contour.



6 ways to become involved:

- Submit a “problem statement” (research idea)
- Serve on a project panel
- Conduct research
- Participate in research process
- Consider Speakers Bureau
- Use ACRP research results

www.TRB.org/ACRP

For More Information: www.TRB.org/ACRP

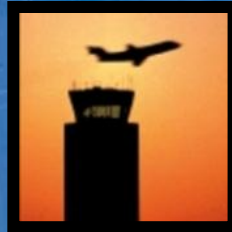
- ❖ Information on ACRP (look for our brochures)
- ❖ Search engine
- ❖ All research projects
- ❖ Project statements (requests for proposals)
- ❖ Anticipated projects
- ❖ ACRP publication lists (how to order)
- ❖ Sign-up to receive email
 - notification of RFPs
 - notification of new publications
- ❖ Online forum for success stories



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Airport Cooperative Research Program



Thank you!

Questions?

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