

### Recommended

Problem Number	Problem Title	Submitted by	Allocation	Duration (months)	Emphasis Area
<a href="#">09-01-01</a>	Best Practices for Determining Benefits for Airport Benefit-Cost Analyzes	<i>Frederick R. Busch (Planning and Noise Denver Int. Airport)</i>	\$300,000	12	
09-02-01	<a href="#">PM Emission Characterization for Source Apportionment for GSE, APUs, and Aircraft Tires/Brakes</a>	<i>Sandy Webb (Environmental Consulting Group, LLC and Phil Whitefield, Richard Miake Lye and Ted Thrasher)</i>	\$500,000	12	
<a href="#">09-02-05</a>	Updated Noise Effects Handbook	<i>Vincent Mestre (Mestre Greve Associates Division of Landrum Brown, and David Forsyth, Raquel Girvin)</i>	\$150,000	12	
09-02-06	<a href="#">Strategies to Reduce Airport Surface Emissions</a>	<i>Hamsa Balakrishnan (Massachusetts Institute of Technology, Dept. of Aeronautics and Astronautics, 33-328)</i>	\$600,000	18	
<a href="#">09-02-08</a>	Airport Ground Support Equipment (GSE) Emissions Survey and Analysis	<i>Jake A. Plante (FAA)</i>	\$500,000	15	
09-02-11	<a href="#">Development of a Metric for Evaluating Impact of Aviation Noise on Learning</a>	<i>Mary Ellen Eagan (Harris Miller Miller &amp; Hanson Inc.)</i>	\$450,000	30	
<a href="#">09-02-19</a>	Alternative Gas Turbine Fuels as a Means to Reduce Airport PM2.5 Emissions	<i>James Hileman (Massachusetts Institute of Technology, Richard Miake-Lye, Saravanan Arunachalam, and Richard Altman)</i>	\$500,000	18	
09-03-07	<a href="#">Property Value Impacts from Avigation Easements</a>	<i>Stephanie A.D. Ward (Mead &amp; Hunt, Inc.)</i>	\$400,000	18	
<a href="#">10-01-01</a>	Personnel and Asset Tracking Through the Use of Information Technology (problem statement 09-01-16)	<i>Lawrence J.H. Schulze (and Christopher Chung, University of Houston, Dept. of Industrial Engineering)</i>	\$250,000	24	
10-01-03	<a href="#">Analysis of FAA (Sourced) Airport Financial Data</a>	<i>Richard Golaszewski (GRA, Incorporated)</i>	\$600,000	18	✓
<a href="#">10-01-10</a>	Organizational Design, Leadership Development and Succession Planning for Airports	<i>Linda G. Frankl (Columbus Regional Airport Authority)</i>	\$350,000	15	✓
10-01-12	<a href="#">Guidebook for Considering and Evaluating Airport Privatization</a>	<i>Mark Earle (Colorado Springs Airport and Gail Staba, Chris Poinsette, Paul Friedman)</i>	\$500,000	12	✓
<a href="#">10-01-14</a>	Development of a Continuous Survey Approach to Conducting Air Passenger Surveys	<i>Geoffrey Gosling (Aviation System Consulting, LLC)</i>	\$150,000	24	
10-01-15	<a href="#">Best Practices for Airport Asset Management</a>	<i>Yasmina Platt (City of Atlanta)</i>	\$400,000	18	
<a href="#">10-01-17</a>	Alternative Revenue Strategies	<i>Marci Greenberger (ACRP/TRB/The National Academies)</i>	\$300,000	15	✓
10-01-18	<a href="#">General Aviation Airport Business Planning Best Practices</a>	<i>Richard E. Genday (Fran Strouse, Robert Kimball &amp; Associates, Inc.)</i>	\$425,000	18	✓
<a href="#">10-01-19</a>	Best Community Outreach & Involvement Practices for General Aviation Airports	<i>Richard E. Genday (Fran Strouse, Robert Kimball &amp; Associates, Inc.)</i>	\$375,000	18	
10-02-01	<a href="#">Evaluation of Aerated Conveyance for the Treatment of Spent Deicing Fluid</a>	<i>Mark Liner (Stantec Inc.)</i>	\$375,000	12	
<a href="#">10-02-03</a>	"Green" Conveyor Belting Material	<i>Steve Holloway (American Airlines Corporate Real Estate)</i>	\$350,000	15	
10-02-04	<a href="#">Understanding and Controlling the Occurrence of Nuisance Bacteria at Airport Stormwater Outfalls</a>	<i>Tom Ecklund (Gerald R. Ford International Airport, Kent County Dept. of Aeronautics)</i>	\$400,000	24	

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<a href="#">10-02-06</a>	Cost-effective Environmental Management of Ground Vehicles	<i>Patricia A. Haederle (Massachusetts Port Authority)</i>	\$400,000	12	
10-02-08	<a href="#">Estimating Emissions from Taxiing Aircraft based on Surveillance Data</a>	<i>Benjamin S. Levy (Sensis Corporation)</i>	\$500,000	12	
<a href="#">10-02-09</a>	Deicing/Anti-icing Optimization Handbook for Small Airports	<i>Michael Chaput (APS Aviation, Inc.)</i>	\$300,000	18	
10-02-16	<a href="#">Reverse Thrust Characterization - Short Runways/Early Taxiway Exits</a>	<i>Vincent Mestre (Mestre Greve Associates Division of Landrum Brown, and David Forsyth, Raquel Girvin)</i>	\$325,000	18	
<a href="#">10-02-18</a>	Assessing the environmental impact of night-curfews	<i>Ebad Jahangir (International Civil Aviation Organization, Environment Section, Air Transport Bureau)</i>	\$50,000	6	
10-02-22	<a href="#">Climate Change Adaptation and Preparedness Planning</a>	<i>Jeff Montera (CDM)</i>	\$500,000	24	✓
<a href="#">10-02-23</a>	Characterizing Methods for the Monitoring of Stormwater Containing Aircraft and Pavement Deicing Materials	<i>Jessica Steinhilber (Airport Council International North America)</i>	\$200,000	13	
10-02-25	<a href="#">Funding Opportunities for Airport Environmental Projects</a>	<i>Kevin W. Welsh (Air Transportation Association)</i>	\$200,000	12	
<a href="#">10-02-26</a>	Alternative Fuels: Requirements and Considerations Associated with Locating an Alternative Jet Fuel Production Facility Adjacent to, or on Airport Property	<i>Nancy N. Young (Air Transport Association of America, Inc.)</i>	\$500,000	14	
10-02-27	<a href="#">Airport and Airline Practices to Improve and Facilitate Recycling of Materials from Aircraft</a>	<i>Kevin W. Welsh (Air Transportation Association)</i>	\$300,000	12	
<a href="#">10-02-31</a>	Multi-criteria Decision Making in Enhancing the Sustainability of Airport Developments: Increasing Environmentally-constrained Airport Capacity	<i>Jasenka Rakas (University of California at Berkeley, National Center of Excellence for Aviation Operations Research)</i>	\$300,000	24	
10-02-36	<a href="#">Development of a User-Friendly Supplemental Noise Assessment Tool for Airports</a>	<i>Thomas Connor (and Ben Sharp, Wyle Laboratories, Aviation Services)</i>	\$350,000	18	
<a href="#">10-02-37</a>	Development of a Taxi Noise Database for Incorporation into INM / AEDT	<i>Juliet Page (Wyle Laboratories, Acoustics Research Group Leader)</i>	\$150,000	12	
10-02-40	<a href="#">Reducing Noise Annoyance Via Non Acoustic Measures</a>	<i>Ben Sharp (Wyle Aviation Services)</i>	\$300,000	18	
<a href="#">10-02-44</a>	Aligning Sustainable IT Practices to serve the Airport Enterprise	<i>Matthew J. Griffin (Airport Council International - North America)</i>	\$450,000	12	
10-02-46	<a href="#">Performance Evaluation of Biological Treatment Systems for Stormwater Containing Aircraft Deicing Fluid</a>	<i>Tim A. Pohle (Air Transport Association of America, Inc.)</i>	\$350,000	14	
<a href="#">10-02-47</a>	Evaluation of Design Storm Conditions for Deicing System Management Design	<i>Tim A. Pohle (Air Transport Association of America, Inc.)</i>	\$300,000	18	
10-02-48	<a href="#">Innovative Deicing Management Solutions: Use of Non-Traditional Biota for Treatment of Airport Deicing Runoff</a>	<i>Tim A. Pohle (Air Transport Association of America, Inc.)</i>	\$150,000	12	
<a href="#">10-02-49</a>	Investigate Variations in Air Pollutant Emissions Resulting from Combustion of Ultra Low Sulfur Jet Fuel	<i>Mohan Gupta (FAA, Office of Environment &amp; Energy)</i>	\$600,000	12	
10-02-51	<a href="#">Environmental Economic Analysis for Airport Capacity Decisions</a>	<i>Raquel Girvin (FAA, Office of Environment and Energy,)</i>	\$400,000	24	

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<a href="#">10-02-52</a>	Evaluating "Green" Airport Engineering and Construction Practices	Paul Friedman (FAA)	\$450,000	18	
10-02-54	<a href="#">Understanding and quantifying the variation of aviation noise transmitted indoors</a>	Hua (Bill) He (FAA, AEE-100 Noise Division)	\$200,000	24	
<a href="#">10-02-55</a>	Evaluation of Aviation Growth Capacity within in State Implementation Plans	Lourdes Maurice (FAA, Office of Environment & Energy)	\$500,000	15	
10-02-58	<a href="#">Guidelines for the Sound Insulation of Residences</a>	Ralph Thompson (FAA, National Planning and Environmental Division)	\$200,000	18	
<a href="#">10-02-59</a>	Managing Waste Generated at Airport Security Checkpoints Resulting from TSA Prohibitions	Michael R. Salamone (ACRP and Panel)	\$300,000	15	✓
10-02-60	<a href="#">Overview of Carbon Management Policies for Airports</a>	Michael R. Salamone (ACRP and Panel)	\$400,000	18	✓
<a href="#">10-03-01</a>	Airport Accident Third-Party Risk Analysis Model for Land Use Compatibility	Frederick R. Busch (Planning and Noise Denver Int. Airport)	\$500,000	24	
10-03-04	<a href="#">Investing in Airport Capacity: Improving the Valuation of Passenger Air Travel for Capital Investment Planning and Benefit Cost Analysis</a>	Bob Robeson (FAA, Office of Aviation Policy and Plans)	\$500,000	24	
<a href="#">10-03-08</a>	Influence of Demographic and Socio-Economic Factors on Air Travel Demand	J. Paul Cripwell (NAVCANADA)	\$400,000	24	✓
10-03-10	<a href="#">Handbook of Best Practices for Building Support for Major New Airport Capacity</a>	Evan Futterman (Futterman Consulting, Inc.)	\$300,000	12	
<a href="#">10-03-12</a>	Methodologies for incorporating uncertainty and risk into airport air traffic forecasting	Steve Martin (InterVISTAS-ga2Consulting Inc.)	\$350,000	18	
10-03-14	<a href="#">Defining Aircraft Delay</a>	Belinda G. Hargrove (TransSolutions, LLC)	\$150,000	15	
<a href="#">10-03-15</a>	Multijurisdictional Aviation Systems Planning for Effective Capacity Management	Megan Smirti (University of California, Berkeley)	\$400,000	24	
10-03-17	<a href="#">Evaluating ACRP as an Effective Tool for Addressing Airport Research Needs</a>	Kevin W. Welsh (Air Transportation Association)	\$250,000	12	
<a href="#">10-03-22</a>	Public Involvement/Education Related to Airport Land Use Compatibility	Stephanie A.D. Ward (Mead & Hunt, Inc.)	\$400,000	24	
10-03-24	<a href="#">Economic Implications of Incompatible Land Use</a>	Stephanie A.D. Ward (Mead & Hunt, Inc.)	\$400,000	18	
<a href="#">10-03-26</a>	Integrating the Planning of Aviation and Passenger Rail Systems in Congested Corridors	Anne D. Stubbs (CONEG Policy Research Center, Inc.)	\$400,000	36	
10-03-27	<a href="#">NextGen for Airports</a>	Belinda G. Hargrove (TransSolutions, LLC)	\$350,000	18	✓
<a href="#">10-03-28</a>	Using Intercity Bus to Connect Smaller Communities with Air Service	Robin Phillips (American Bus Association)	\$350,000	19	✓
10-03-30	<a href="#">Airport Land Use Compatibility Planning Practice – A Policy Analysis</a>	Mark R. Johnson (Ricondo & Associates)	\$250,000	18	

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<a href="#">10-03-39</a>	An Investigation of Airfield Delay Metrics	<i>Ralph Thompson (FAA, National Planning and Environmental Division)</i>	\$300,000	12	
10-03-40	<a href="#">Analysis of Costs and Benefits of the Essential Air Service Program (FACA)</a>	<i>Michael R. Salamone (ACRP and Panel)</i>	\$600,000	24	✓
<a href="#">10-04-01</a>	Analysis of SEADOG and WESTDOG to extract BMPs for establishment of similar mutual assistance groups in the Midwest, Middle Atlantic, and New England.	<i>James F. Smith (American Public University System)</i>	\$300,000	27	
10-04-12	<a href="#">Guidebook for Airport Continuity of Operations, Business Continuity and Recovery Planning</a>	<i>Randall D. Berg (and Terry Craven, Salt Lake City International Airports)</i>	\$350,000	24	✓
<a href="#">10-04-21</a>	"Airport Malaria": The role of air transportation in the spread of vector-borne diseases	<i>Katherine B. Andrus (Air Transport Association of America, Inc.)</i>	\$200,000	12	
10-04-24	<a href="#">Discrete Very High Frequency (VHF) use during airport emergencies</a>	<i>Chuck Farina (Houston Airport System, Public Safety &amp; Technology Division)</i>	\$200,000	12	
<a href="#">10-04-25</a>	Aircraft Rescue Fire and Fighting Training Programs	<i>Chuck Farina (Houston Airport System, Public Safety &amp; Technology Division)</i>	\$250,000	18	
10-04-32	<a href="#">Guidelines for Evaluating the Crash-Test Performance of Frangible Connections</a>	<i>Paul Friedman (FAA)</i>	\$300,000	18	
<a href="#">10-05-07</a>	A Guidebook for Low Cost and No Cost GA Airport Security Enhancements	<i>Richard E. Genday (Fran Strouse, Robert Kimball &amp; Associates, Inc.)</i>	\$375,000	18	
10-05-08	<a href="#">Security Management Systems for U.S. Airports - Developing a Conceptual Framework</a>	<i>Faith Varwig (Principal Faith Group, LLC)</i>	\$400,000	15	
<a href="#">10-07-06</a>	Decision Tools for Evaluating Terminal Facility Renewal or Replacement Options	<i>Peter Mandle (Jacobs Consultancy)</i>	\$400,000	15	✓
10-07-09	<a href="#">On Demand Escalators and Moving Walkways at Airports to Reduce Energy Consumption, Improve Air Quality and Reduce Maintenance Costs</a>	<i>Jessica Steinhilber (Airport Council International North America)</i>	\$250,000	18	
<a href="#">10-07-10</a>	Development and Fielding of an Aircraft Arrestor System	<i>Matt Barsotti (Protection Engineering Consultants, LLC)</i>	\$1,500,000	24	
10-07-12	<a href="#">Design Software Development for Aircraft Arrestor Systems</a>	<i>Matt Barsotti (Protection Engineering Consultants, LLC)</i>	\$150,000	24	
<a href="#">10-10-01</a>	To Prepare a Referenceable Guidebook to be Used by Airports to Review and Update Their IROPS Plans and Procedures.	<i>James M. Crites (DFW International Airport)</i>			
10-10-03	<a href="#">Use of Holdover Time Determination System Outputs to Assist in Assessment and Maintenance of Contaminated Runways</a>	<i>Michael Chaput (APS Aviation, Inc.)</i>	\$300,000	22	
<a href="#">10-10-04</a>	Guidebook of Practices for Developing Coordinated Contingency Plans for Tarmac Delays	<i>James M. Crites (DFW International Airport)</i>	\$400,000	9	✓
10-10-05	<a href="#">Winter Maintenance Decision Support for Airport Operations</a>	<i>S. Edward Boselly (Weather Solutions Group)</i>	\$400,000	18	
<a href="#">10-10-06</a>	All Weather Airport Operations	<i>Allen Parra (Dallas/Fort Worth International Airport)</i>	\$400,000	9	
10-10-07	<a href="#">Airport Terminal Lighting Standards and Practices</a>	<i>Harry P. Wolfe (HW Consulting &amp; Mariana Figueiro, Rensselaer Polytechnic Institute)</i>	\$350,000	18	

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<a href="#">10-10-16</a>	Develop a Guidebook for Employee Parking and Access Operations and Planning	<i>Peter Mandle (Jacobs Consultancy)</i>	\$350,000	15	
10-10-18	<a href="#">Managing the Commuting Needs of Airport Employees within the Context of Environmental, Business, and Workforce Retention Objectives</a>	<i>Diane Ricard (DMR Consulting)</i>	\$400,000	18	
<a href="#">10-10-19</a>	Ground Handling Training and Practices.	<i>Michael R. Salamone (ACRP and Panel)</i>	\$100,000	12	✓
10-11-01	<a href="#">Compilation of DOT and FAA Airport Legal Determinations and Opinion Letters, Through [December 2008 or June 2009]*</a>	<i>John J. Corbett (Spiegel &amp; McDiarmid LLP)</i>	\$52,000	10	
<a href="#">10-11-02</a>	Issues Related to Developing SMS and SMRD documents Which May Be Available to the Public	<i>James White (FAA, Airport Safety and Standards and Debbie McElroy, Airports Council International)</i>	\$100,000	6	
10-11-03	<a href="#">Dissemination of ACRP Research Results</a>	<i>Michael R. Salamone (ACRP and Panel)</i>	\$600,000	12	
<b>Total</b>			<b>\$30,577,000</b>		