

Note: Includes resubmitted FY 2015 Problem Statements. FY 2016 problem statement numbers may not be sequential due to withdrawn submissions.

Total Problem Statements: 95

Problem Statement Number	Title / Submitter (Agency)	Author Funding Amount	Duration (Months)	Date Submitted
Research Field 01: Administration (13 Problem Statements)				
16-01-01	Encouraging Community Involvement at General Aviation Airports Rita Hunt (NHDOT/Bureau of Aeronautics)	\$250,000	15	02/04/2015
16-01-02	Airport Technology Solutions to Facilitate Americans with Disabilities Act Travelers Ted Melnik (Barich, Inc.)	\$350,000	18	02/24/2015
16-01-03	Airport/Airline Relations Guidebook Lloyd A. McCoomb (Canadian Air Transport Security Authority)	\$200,000	12	03/03/2015
16-01-04	Promoting and Financing Airport Resiliency James F. Smith (Smith-Woolwine Associates, Inc.)	\$300,000	18	03/20/2015
16-01-05	Internet of Things (IoT) for the Connected Airport Rick Belliotti (San Diego County Regional Airport Authority)	\$400,000	18	03/20/2015
16-01-06	Airport Managers Guide to Providing Fuel Service John C. Eagerton IV (Alabama DOT)	\$350,000	18	03/20/2015
16-01-07	Airports Integrating Resilience (AIR): Interactive Web-based Approach to Resilience Tiffany Jones (Hartsfield-Jackson Atlanta International Airport and team)	\$450,000	24	03/20/2015
16-01-08	Airport Common Services Stephen Vail (Mosaic ATM Inc., and team)	\$400,000	15	03/20/2015
16-01-09	Updating ACRP Report 16: Guidebook for Managing Small Airports Joshua Abramson (Easterwood Airport Management)	\$350,000	12	03/20/2015

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<u>16-01-10</u>	<u>A Legal Review and Exploration of Airport Alliances for Air Service Development</u>	\$350,000	12	03/20/2015
	Joshua Abramson (Easterwood Airport Management)			
<u>16-01-11</u>	<u>An ACRP Early Career Grant Program for Academic Researchers</u>	\$200,000		03/20/2015
	Christian Salmon (Western New England Univ, Industrial Engineering and Eng. Management)			
<u>16-01-12</u>	<u>ACRP Roundtable on Critical Issues for Airports</u>	\$300,000	18	03/20/2015
	Michael R. Salamone (ACRP, Transportation Research Board)			
<u>16-01-13</u>	<u>ARCP Innovations Deserving Exploratory Analysis (IDEA) Program</u>	\$400,000	24	03/13/2015
	Jon Williams, TRB IDEA and Synthesis Studies			
<i>Research Field 02: Environment (36 Problem Statements)</i>				
<u>16-02-01</u>	<u>Assessing the Current Status and Underutilization of Existing Noise Abatement Procedures</u>	\$36,500	12	03/11/2015
	Brian F. Will (and Janet McEaney, Queens Quiet Skies and the Port Authority of NY/NJ Community Aviation Roundtable)			
<u>16-02-02</u>	<u>Integrated Water Resource Management Strategies for Airports</u>	\$400,000	12	03/15/2015
	Paul Manasjan (San Diego County Regional Airport Authority)			
<u>16-02-03</u>	<u>Active Noise Reduction of Aircraft Takeoff and Maintenance Runup Operations</u>	\$300,000	18	03/20/2015
	Chris Hobbs (Wyle Laboratories, Inc. and Jerry Trantow)			
<u>16-02-04</u>	<u>Understanding and Quantifying Helicopter Emissions</u>	\$400,000	18	03/18/2015
	Brian Kim (Wyle, Inc. and team)			
<u>16-02-05</u>	<u>Development of Guidance to Support the Use of AEDT to Assess Environmental Impacts of Airport Metroplexes under NextGen Scenarios</u>	\$500,000	18	03/19/2015
	Brian Kim (Wyle, Inc. and team)			
<u>16-02-06</u>	<u>80% Waste Diversion and Beyond: Implementation Tools for Airports</u>	\$400,000	15	03/20/2015
	Adam Klauber (ICF International)			

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<u>16-02-07</u>	<u>Airport Design and Operational Strategies to Mitigate Air Quality Impacts</u> Stephen Vail (Mosaic ATM Inc., and team)	\$400,000	18	03/20/2015
<u>16-02-08</u>	<u>Streamlining Environmental Review and Analysis for Proposed Airport Instrument Flight Procedure Changes</u> Michael T. Johnson (Metron Aviation)	\$350,000	15	03/20/2015
<u>16-02-09</u>	<u>The Effects of Man-Made Structures on Airport Noise Exposure</u> Brandon Robinette (Wyle, Environmental and Energy Research and Consulting)	\$300,000	18	03/20/2015
<u>16-02-10</u>	<u>Commercial Space Operations Noise Measurements</u> Michael James (Blue Ridge Research and Consulting LLC)	\$500,000	22	03/20/2015
<u>16-02-11</u>	<u>AEDT Helicopter Noise Database Enhancements</u> Juliet A. Page (John A. Volpe National Transportation Systems Center, US Dept. of Transp)	\$400,000	24	03/20/2015
<u>16-02-12</u>	<u>Emissions Factors from Non-Aircraft Sources</u> Hazel Peace (Ricardo-AEA, Ltd.)	\$500,000	24	03/20/2015
<u>16-02-13</u>	<u>Environmental Comparison of Different Modes of Transportation</u> Eric Lu (ENVIRON International Corporation and Peta Wolmarans, CH2M Hill)	\$400,000	18	03/20/2015
<u>16-02-14</u>	<u>An In-Depth Look at Wetland Mitigation</u> Melissa B. Smart (The Smart Associates, Environmental Consultants, Inc.)	\$400,000	18	03/20/2015
<u>16-02-15</u>	<u>Developing a Renewable Resource Strategy at Airports</u> Stephen Barrett (Harris Miller Miller & Hanson, Inc.)	\$300,000	12	03/20/2015
<u>16-02-16</u>	<u>Integrating Climate Resiliency into Airport Management Systems</u> Adam Klauber (ICF International)	\$550,000	15	03/20/2015

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<u>16-02-17</u>	<u>Costs and Benefits of Sustainability Initiatives</u> Peta Wolmarans (CH2M Hill, Metrotower and Adam Klauber, ICF International)	\$250,000	12	03/20/2015
<u>16-02-18</u>	<u>Alternative Aircraft and Airfield Deicing and Anti-Icing Formulations</u> Dean Mericas (Mead & Hunt, Inc.)	\$150,000	15	03/20/2015
<u>16-02-19</u>	<u>Industry Forum Discussing Reducing Emissions from Taxiing Aircraft</u> Hazel Peace (Ricardo-AEA, Ltd.)	\$30,000	6	03/20/2015
<u>16-02-20</u>	<u>Sponsor's Guidebook for NEPA and Environmental Reviews at General Aviation Airports</u> Jennifer Fuller (NCDOT Division of Aviation)	\$250,000	15	03/20/2015
<u>16-02-21</u>	<u>Addressing Local Stormwater Utilities and MS4s</u> John Lengel (Gresham Smith & Partners and team)	\$350,000	18	03/20/2015
<u>16-02-22</u>	<u>Airport Drinking Water Supply – Assessment of Airport Potable Water Systems</u> Marianne Csaky (Airlines for America)	\$300,000	15	03/20/2015
<u>16-02-23</u>	<u>Industry Forum Discussing Challenges to Implementing Successful Land Use Strategies</u> Brad Rolf (Mead & Hunt, Inc.)	\$350,000	18	03/20/2015
<u>16-02-24</u>	<u>Integrating Sustainability Plans with Environmental Analysis</u> Arlyn Purcell (Aviation Dept., Port Authority of NY & NJ, and Mary Vigilante, Synergy Consultants)	\$400,000	18	03/20/2015
<u>16-02-25</u>	<u>Sustainability's Role in Airport Growth</u> Nate Kimball (Port Authority of New York and New Jersey)	\$40,000	12	03/20/2015
<u>16-02-26</u>	<u>Guidebook on Airport Natural Gas Extraction</u> Bill Demopolous	\$600,000	18	03/20/2015

Problem Statement Number	Title / Submitter (Agency)	Author Funding Amount	Duration (Months)	Date Submitted
<u>16-02-27</u>	<u>Protecting Airport Planning from Evolving Forecasts</u>	\$450,000	18	03/20/2015
	Arlyn Purcell (Aviation Dept., Port Authority of NY & NJ, and Mary Vigilante, Synergy Consultants)			
<u>16-02-28</u>	<u>Integrating Planning and the National Environmental Policy Act of 1969 (NEPA) Process and the Effectiveness of Streamlining the NEPA Process</u>	\$300,000	18	03/20/2015
	William J. Willkie (RS&H, Inc.)			
<u>16-02-29</u>	<u>Alternative Noise Metrics for Addressing Aircraft Annoyance</u>	\$400,000	12	03/20/2015
	Vincent Mestre (Landrum & Brown)			
<u>16-02-30</u>	<u>Residential Sound Insulation Techniques and Effectiveness by Geographic Region</u>	\$250,000	24	
	Eric Cox (Harris Miller Miller & Hanson, Inc.)			
<u>16-02-31</u>	<u>Cost-Benefit Analyses for Stormwater Infrastructure Improvements</u>	\$450,000	18	03/20/2015
	<u>John Lengel (Gresham Smith & Partners and team)</u>			
<u>16-02-32</u>	<u>Monitoring and Assessment of Odors in Stormwater</u>	\$450,000	18	03/20/2015
	John Lengel (Gresham Smith & Partners and team)			
<u>16-02-33</u>	<u>Developing an Aircraft Weight Database for AEDT</u>	\$250,000	16	03/20/2015
	Bert Ganoung (San Francisco International Airport and Paul Dunholter, BridgeNet International)			
<u>16-02-34</u>	<u>Industry Forum Discussing Economic and Social Sustainability at Airports</u>	\$250,000	16	
	Bill Demopolous			
<u>16-02-35</u>	<u>Use of Renewable Energy Credits by Airports to Meet Economic and Environmental Objectives</u>	\$300,000	16	03/30/2015
	Stephen Barrett (Harris Miller Miller & Hanson, Inc.)			
<u>16-02-36</u>	<u>Updating and Enhancing ACRP Report 14: Deicing Planning Guidelines and Practices for Stormwater</u>	\$600,000	24	03/30/2015
	Katherine Preston (ACI-NA with John Lengel, Gresham Smith & Partners and Dean Mericas, Mead & Hunt)			

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<i>Research Field 03: Policy and Planning (17 Problem Statements)</i>				
<u>15-03-11</u>	<u>UAS Impacts on Ground Operations - Considerations for Airport Operators and Tenants</u>	\$500,000	18	02/10/2014
	Kenneth P. Neubauer (Futron Corporation)			
<u>15-03-12</u>	<u>Public Relations and UAS Operations - Issues Facing Airports and their Surrounding Communities</u>	\$350,000	15	02/10/2015
	Kenneth P. Neubauer (Futron Corporation)			
<u>15-03-13</u>	<u>Economic Development Opportunities from UAS Integration - Growing a Community through UAS Introduction at Airports</u>	\$500,000	18	02/10/2014
	Kenneth P. Neubauer (Futron Corporation)			
<u>15-03-16</u>	<u>Special and Joint Use Airports for UAS - Advantages and Limitations of Operating UAS from Specialized Airports</u>	\$300,000	15	02/10/2014
	Kenneth P. Neubauer (Futron Corporation)			
<u>16-03-01</u>	<u>Efficiencies, Advantages, and Challenges of the Airport Block Grant Program</u>	\$250,000	15	01/09/2015
	Rita Hunt (NHDOT/Bureau of Aeronautics)			
<u>16-03-02</u>	<u>Innovative Practices and Strategies Used By State Aviation Agencies</u>	\$190,000	18	03/18/2015
	Thomas P. Thatcher (L. R. Kimball)			
<u>16-03-03</u>	<u>Reconciling Public Investment in Airport Infrastructure with the Impact of Industrial Aerospace</u>	\$390,000	18	03/18/2015
	Richard Crider (Port Authority of San Antonio)			
<u>16-03-04</u>	<u>Develop Airfield Guidelines for Unmanned Aerial Vehicles</u>	\$300,000	18	03/15/2015
	Katie Chou (TRB AV070 Committee, and Team)			
<u>16-03-05</u>	<u>Automation of Aircraft Operations, Counts and Conflict Alerting at Small/Medium Airports</u>	\$450,000	15	03/19/2015
	Chris Buffum (AeroPATH Systems and Micky Tower, City and Airport Manager)			

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<u>16-03-06</u>	<u>Air Demand in a Dynamic Competitive Context: Understanding Competition with the Auto</u>	\$500,000	18	03/19/2015
	Richard Marchi (RFMarachi Aviation Consulting, Inc., Megan Ryerson, and Matthew Coogan)			
<u>16-03-07</u>	<u>Harmonization of Airport GIS Geospatial Standards and RTCA NextGen Geospatial Standards</u>	\$267,000	12	03/03/2015
	David Barron (Woolpert, Inc.)			
<u>16-03-08</u>	<u>Reducing Leakage and Attracting Passengers at Non-Hub Airports</u>	\$200,000	15	03/19/2015
	Matthew Stone (California State University, Chico)			
<u>16-03-09</u>	<u>Identifying and Quantifying the Impact of the Airline Industry Realignment Since 2001 on the Use of US Airport Infrastructure</u>	\$125,000	15	03/19/2015
	George F. Doughty (aviation consultant; former CEO of the Lehigh Northampton Airport Authority and Daniel Friedenjohn)			
<u>16-03-10</u>	<u>Airport Metrics and Impacts of ATC Restrictions</u>	\$400,000	15	03/20/2015
	Stephen Vail (Mosaic ATM, Inc. and team)			
<u>16-03-11</u>	<u>Planning for Future Demand in the General Aviation Sector</u>	\$450,000	15	03/20/2015
	Geoffrey Gosling (Aviation Systems Consulting LLC , Rob Hodgman WA Dept. of Transp., Christian Salmon New England Univ.)			
<u>16-03-12</u>	<u>Integrating Spaceports with Airports</u>	\$600,000		03/20/2015
	Richard M. Rogers (R&H, Inc. and William D. Laska, Chair, AV010 Sub Committee on Commercial Space Transp.)			
<u>16-03-13</u>	<u>Is There an Adequate Pipeline of Pilots to Meet the Increasing Needs of Airports and the Communities They Serve?</u>			03/20/2015
	Melissa Sabatine (AAAE Airline Economics and Air Service Committee)			
Research Field 04: Safety (3 Problem Statements)				
<u>16-04-01</u>	<u>Developing Arresting Systems for Small Aircraft at General Aviation Airports</u>	\$350,000	18	03/20/2015
	Thomas Mahoney (Mass DOT, Aeronautics Division)			

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16-04-02	Guidebook for Airport-Community Volunteer Disaster Airlift Teams and Disaster Airlift Response Colette Armao (Caltrans Division of Aeronautics and team)	\$400,000	24	03/20/2015
16-04-03	Guidebook for Airport Emergency Operations Centers (EOC) Donald W. Griffith (IEM, Inc.)	\$400,000	18	03/20/2015
16-04-04	Develop a National Airport Wildlife Hazard Management Database Joanne M. Landry (Landry Consultants, LLC)	\$500,000	24	04/06/2015
Research Field 06: Human Resources (1 Problem Statement)				
16-06-01	Fatigue Management for Ramp Workers Laura K. Barger (Harvard Medical School)	\$500,000	24	03/20/2015
Research Field 07: Design (7 Problem Statements)				
16-07-01	Automated Transit Network Guidebook for Airport Planners Peter J. Muller (PRT Consulting, Inc.)	\$450,000	18	03/06/2015
16-07-02	“Excuse Me, Where Is the Elevator?” “How Much Further Do I Need to Walk to Get to the Gate?” “Help, I Need Directions to My Gate.” Adam Nguyen (Florida Port Authority?)			
16-07-03	Understanding and Rectifying Differences in Airport Design Standards Matthew P. Malicki (Wisconsin Dept. of Transportation, Bureau of Aeronautics)	\$400,000	18	03/18/2015
16-07-04	Planning and Designing Airport Infrastructure to Support GPS and PBN Approach Development Casey Ries (Kent County Dept. of Aeronautics)	\$250,000	15	03/20/2015
16-07-05	Guidebook for Airport Access and Functional Needs Planning Donald W. Griffith (IEM, Inc.)	\$300,000	16	03/20/2015

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<u>16-07-06</u>	<u>Impact of Autonomous/Driverless Vehicle to Airport Landside Terminal Planning and Design</u>	\$200,000	15	03/20/2015
	Yu Zhang (University of South Florida, Civil and Environmental Engineering)			
<u>16-07-07</u>	<u>Guidebook for Designing and Constructing Seaplane Base Facilities</u>	\$300,000	15	03/20/2015
	Thomas J. Helms, Jr. (AvMet Applications, Inc.)			
<u>16-07-08</u>	<u>Future Airport Passenger Terminal Facilities that Can Efficiently Adapt to New Technologies</u>	\$750,000	24	03/21/2015
	Waguih F. Ouess ((former) Pan American World Airways, EVP with Triangle Services and PANYNJ Aviation Dept.)			
Research Field 08: Construction (3 Problem Statements)				
<u>16-08-01</u>	<u>Guidebook on Best Practices for Safe Runway Construction Works</u>	\$300,000	18	03/20/2015
	George Baskir (TRB AV070, Airport Operations SME, CSSI and Gael Le Bris Aeroports de Paris, and Samuel Hautequest)			
<u>16-08-02</u>	<u>Reducing Linear Feet of Joints by Placing Larger Slabs</u>	\$500,000		03/20/2015
	Alberto O. Cruz (CTS Cement Mfg. Corp and team)			
<u>16-08-03</u>	<u>Evidence-Based Guidance for Construction Partnering of Aviation Projects</u>	\$500,000	24	03/02/2015
	Geoff Neumayr (San Francisco International Airport and Meenakshi Singh, San Jose International Airport)			
Research Field 09: Maintenance (6 Problem Statements)				
<u>16-09-01</u>	<u>Identifying Method of Preventing False Alarms with PIDS During Severe Weather Condition</u>	\$250,000	15	03/18/2015
	Somnath Mukherjee (Port Authority of New York and New Jersey)			
<u>16-09-02</u>	<u>Identifying an Effective Method for Maintaining Airfield Lighting Fixtures</u>	\$150,000	13	03/16/2015
	Somnath Mukherjee (Port Authority of New York and New Jersey)			
<u>16-09-03</u>	<u>Accelerated and Automatic Pavement Crack Sealing Planning and Programming</u>	\$400,000	18	03/20/2015
	James Yichang Tsai (Georgia Institute of Technology)			

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<u>16-09-04</u>	<u>Novel Laser-excited Piezoelectric Transducers for Remote Structure Health Monitoring of Airport Pavement</u>	\$300,000	24	03/20/2015
	Tzuyang Yu (University of Massachusetts Lowell, Dept. of Civil and Environmental Engineering)			
<u>16-09-05</u>	<u>Rapid Airport Pavement Marking Retroreflectivity Condition Evaluation Using Mobile LiDAR Technology</u>	\$300,000	18	03/20/2015
	Zhaohua Wang (Georgia Institute of Technology, Center for Geographic Information Systems)			
<u>16-09-06</u>	<u>Advanced CMMS Integration</u>	\$375,000	15	03/02/2015
	Sarah Demory (Boise Airport)			
Research Field 10: Operations (7 Problem Statements)				
<u>16-10-01</u>	<u>Airport Seismic Self-Inspection Practices</u>			
	Rachel Mosier (Oklahoma State University, Construction Management Tech)			
<u>16-10-02</u>	<u>Automation of the Airport Snow Fighting Operation</u>	\$250,000	18	03/24/2015
	Lloyd A. McCoomb (Canadian Air Transport Security Authority)			
<u>16-10-03</u>	<u>Potential Applications of Unmanned Aerial Systems for Airports</u>	\$300,000	18	03/20/2015
	Gael Le Bris (Paris - CDG airport (LFPG), Aeroports de Paris S.A., and team)			
<u>16-10-04</u>	<u>Integration of Unmanned Aerial Systems into Airport Infrastructure and Operations</u>	\$350,000	12	03/20/2015
	Thomas Mackie (Woolpert, Inc.)			
<u>16-10-05</u>	<u>Expedited Recovery After the Impacts of a Major Disruption</u>	\$350,000	18	03/20/2015
	Rose Agnew (Aviation Innovation, LLC)			
<u>16-10-06</u>	<u>Planning Guidebook and Toolbox for Airport Winter Operations</u>	\$416,000	18	03/20/2015
	Yue Xu (HNTB Corporation)			

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16-10-07	Strategic Decision Support for Airside Operations	\$200,000	18	03/20/2015

Dana L Ryan (Lambert St. Louis International Airport and students at the University of Missouri St. Louis (UMSL))