

Note: Includes recommended FY 2016 problem statements not discussed at the July 2016 AOC meeting.

Total Problem Statements: 116

Problem Statement Number	Title / Submitter (Agency)	Author Funding Amount	Recommended Funding Amount	Duration (Months)	Date Submitted
16-01-01	Encouraging Community Involvement at General Aviation Airports Rita Hunt (NHDOT/Bureau Aeronautics)	\$250,000	\$300,000	15	02/04/2015
16-01-03	Airport/Airline Relations Guidebook Lloyd A. McCoomb (Canadian Air Transport Security Authority)	\$200,000	--	12	03/03/2015
16-02-01	Assessing the Current Status and Underutilization of Existing Noise Abatement Procedures Brian F. Will (and Janet McEneaney, Queens Quiet Skies and the Port Authority of NY/NJ Community Aviation Roundtable)	\$36,500	\$122,000	24	03/10/2016
16-02-09	The Effects of Man-Made Structures on Airport Noise Exposure Brandon Robinette (Wyle, Environmental and Energy Research and Consulting)	\$300,000	\$400,000	18	03/11/2016
16-02-10	Commercial Space Transportation Noise Measurements Michael James (Blue Ridge Research and Consulting LLC)	\$500,000	--	18	03/15/2016
16-02-13	Environmental Comparison of Different Modes of Transportation Eric Lu (ENVIRON International Corporation and Peta Wolmarans, CH2M Hill)	\$400,000	--	18	03/15/2016
16-02-19	Industry Forum Discussing Reducing Emissions from Taxiing Aircraft Hazel Peace (Ricardo-AEA, Ltd.)	\$150,000	\$100,000	15	03/15/2016
16-02-25	Sustainability's Role in Airport Growth Nate Kimball (Port Authority of New York and New Jersey)	\$40,000	\$122,000	18	03/15/2016

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16-03-07	Harmonization of Airport GIS Geospatial Standards and RTCA NextGen Geospatial Standards David Barron (Woolpert Inc.)	\$267,000	\$122,000	20	03/15/2016
16-03-11	Planning for Future Demand in the General Aviation Sector Geoffrey Gosling (Aviation Systems Consulting LLC , Rob Hodgman WA Dept. of Transp., Christian Salmon New England Uni)	\$450,000	\$450,000	18	03/15/2016
16-07-04	Planning and Designing Airport Infrastructure to support GPS and PBN Approach Development Casey Ries (Kent County Dept. of Aeronautics)	\$250,000	--	18	03/15/2016
16-09-01	Identifying Method of Preventing False Alarms with PIDS During Severe Weather Condition Somnath Mukherjee (Port Authority of New York and New Jersey)	\$250,000	\$250,000	12	03/15/2016
16-09-03	Accelerated and Automatic Pavement Crack Sealing Planning and Programming James Yichang Tsai (Georgia Institute of Technology)	\$400,000	\$400,000	21	03/18/2016
16-09-04	Novel Laser-excited Piezoelectric Transducers for Remote Structure Health Monitoring of Airport Pavement Tzuyang Yu (University of Massachusetts Lowell, Dept. of Civil and Environmental Engineering)	\$300,000	--	12	03/20/2016
16-09-05	Rapid Airport Pavement Marking Retroreflectivity Condition Evaluation Using Mobile LiDAR Technology Zhaohua Wang (Georgia Institute of Technology, Center for Geographic Information Systems)	\$300,000	\$300,000	15	03/21/2016

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17-01-01	Guidebook and Model for Demonstrating Return on Investment for BIM at Airports Dominique Pittenger (and ACRP 11-03/509-07)	\$500,000	\$500,000	15	03/21/2016
17-01-02	Guidebook for Developing Contractual Language for Building Information Modeling (BIM) Airport Projects Dominique Pittenger (and ACRP 11-03/509-07)	\$200,000	See 17-01-01	18	03/21/2016
17-01-03	Identifying and Measuring the Qualitative/ Quantitative Value of Business Diversity Programs Randy Bush (Columbus Regional Airport Authority and Thiane Carter, Raleigh-Durham Airport Authority)	\$350,000	\$350,000	15	03/21/2016
17-01-04	Efficiencies, Advantages, and Challenges Associated with the State Block Grant Program Patrick Herliby (and NASAO (National Association of State Aviation Officials))	\$200,000	--	15	03/17/2016
17-01-05	Airport Funding Methods, Sources, and Timing of Distribution NASAO (National Association of State Aviation Officials)	\$350,000	\$122,000	15	03/17/2016
17-01-06	Competing with other Transportation Modes for State Funding NASAO (National Association of State Aviation Officials)	\$250,000	--	15	03/17/2016
17-01-07	Establishing and Implementing Rates and Charges and Minimum Standards at Airports NASAO (National Association of State Aviation Officials)	\$400,000	\$400,000	18	03/25/2016
17-01-08	Funding Commercial Service Development: SCASDP and EAS Programs NASAO (National Association of State Aviation Officials)	\$350,000	--	15	03/25/2016

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17-01-09	Methods of Aviation Fuel Tax Collection and Use NASAO (National Association of State Aviation Officials)	\$300,000	\$122,000	18	03/25/2016
17-01-10	Tools Available for Tracking Grants, Projects, and Costs NASAO (National Association of State Aviation Officials)	\$150,000	--	12	03/11/2015
17-01-11	Renewable Energy as an Airport Revenue Source Richard E. Genday (and Thomas P. Thatcher, L.R. Kimball)	\$445,000	--	18	03/20/2015
17-01-13	Rates and Charges Best Practices for Airports to Attract and Retain Carriers Operating Under Emerging Business Models Edward Shelswell-White (LesVolo LLC)	\$250,000	\$350,000	22	03/20/2015
17-01-14	Guide to Developing an Action Plan for Implementing a Strategic Plan Nick Davidson (ICF International, and Thomas A. Welsh, and Dafand Wu DWU Consulting)	\$350,000	\$122,000	18	03/20/2015
17-01-15	If, When, and How Should Airports Use Cloud Based Services? Randy Murphy (Grafton Technologies, Inc.)	\$300,000	--	12	03/20/2015
17-01-16	Enterprise Risk Management Guidebook for the Internet of Things at Airports Dothang Truong (and Mark Friend, and Robert Raffel, Embry-Riddle Aeronautical University)	\$400,000	--	12	03/20/2015
17-01-17	Case Studies of Alternative Jet Fuel Deployment at Airports John Shideler (Futurepast, Inc.)	\$300,000	\$122,000	16	01/14/2016
17-01-18	Improved Methods for Updating Contact Lists James F. Smith (Smith-Woolwine, Inc. And ACRP Syntheses S04-16)	\$225,000	--	24	03/15/2016

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17-01-19	Methods to Promote ADA Compliance for All Airport Emergency Communications Including Websites and Social Media James F. Smith (Smith-Woolwine, Inc. And ACRP Syntheses S04-16)	\$225,000	See 17-01-20	19	03/21/2016
17-01-20	AEP and Crisis Communications Plan Language to Accommodate Non-English Speakers and People with Disabilities James F. Smith (Smith-Woolwine, Inc. and ACRP Syntheses S04-16)	\$225,000	\$400,000	8	03/21/2016
17-01-21	Potential Application and Benefit of UAS Use by Airports Jeremy Worrall (Alaska DOT and ACRP UAS Panel Workshop)	\$300,000	\$300,000	18	03/30/2016
17-01-22	Identification of Technology for Tracking Airport Assets Jim Smith (Metron Aviation)	\$350,000	\$250,000	24	03/20/2016
17-01-23	Airports and Unmanned Aircraft Systems (UAS): Engaging Relevant Stakeholders in UAS Randy Murphy (Grafton Technologies, Inc. and ACRP UAS Panel Workshop)	\$350,000	\$350,000	18	03/21/2016
17-02-01	Developing an Aircraft Weight Database for AEDT Bert Ganoung (San Francisco International Airport and Justin W. Cook, BridgeNet International)	\$250,000	\$250,000	24	03/21/2016
17-02-02	Computer Program for Assessing Aircraft Noise in Residences John C. Freytag (Freytag & Associates, LLC)	\$300,000	--	12	03/21/2016
17-02-03	Recovering International Recyclables from In-flight Service Liza Milagro (Hartsfield-Jackson Atlanta International Airport)	\$490,000	\$122,000	18	03/21/2016

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17-02-04	Develop a Spreadsheet Application to Specify an Aircraft Noise Spectrum Christopher Bajdek (Harris Miller Miller & Hanson Inc.)	\$35,000	--	24	03/21/2016
17-02-05	Airport Noise Simulation Modeling Joseph J. Czech (Wyle Laboratories, Inc.)	\$350,000	--	12	03/21/2016
17-02-06	A New Primary Metric for Aircraft Noise Joseph J. Czech (Wyle Laboratories, Inc.)	\$500,000	--	12	03/21/2016
17-02-07	Active Noise Reduction of Aircraft Takeoff and Maintenance Run-up Operations Chris Hobbs (Wyle Laboratories, Inc., and Jerry Trantow)	\$300,000	--	18	03/21/2016
17-02-08	Commercial Space Operations Sonic Boom Model Validation Kevin Bradley (Wyle Laboratories, Inc.)	\$450,000	--	18	03/21/2016
17-02-09	Update of Guidebook on Preparing Airport Greenhouse Gas Emissions Inventories John Shideler (Futurepast, Inc.)	\$300,000	\$300,000	15	03/21/2016
17-02-10	Determination of Fence Line HAP Concentration at Major Airports Brian Kim (and Roger Wayson, Wyle, Inc.)	\$500,000	--	18	03/25/2016
17-02-11	Review of Current Practices and Recommendations to Harmonize the Reduction of Noise and Air Pollution at Airports Brian Kim (and Roger Wayson, Wyle, Inc.)	\$500,000	\$300,000	24	05/02/2016

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17-02-12	Evaluation of PM Emission Reduction from Using Unleaded Avgas for General Aviation David S. Liscinsky (United Technologies Research Center)	\$400,000	--	12	03/03/2015
17-02-13	Effect of Aircraft Engine Operation on Emissions David S. Liscinsky (United Technologies Research Center)	\$400,000	--	15	03/20/2015
17-02-14	Effect of Noise Reflected from Terrains and Buildings Bill Hua (FAA, Noise Division)	\$300,000	See 16-02-09	18	02/23/2016
17-02-15	Evaluating the Use of Gate Electrification in Varying Climates Emily Conway (and Kris Russell, Dallas/Fort Worth International Airport)	\$275,000	\$300,000	18	03/08/2016
17-02-16	Green Revolving Fund Toolkit for Airports Adam Klauber (Rocky Mountain Institute, Carbon War Room)	\$500,000	\$350,000	18	03/11/2016
17-02-17	Benefit-Cost Analysis of Airport Water Efficiency Programs Richard A. Krop (The Cadmus Group, Inc.)	\$450,000	--	20	03/15/2016
17-02-18	Updating and Improving ACRP Project 02-23: Quantifying Potential Reductions of PM2.5 and HAP Emissions at Airports from the Use of Alternative Jet Fuel Alex Menotti (Airlines for America and team (Natalie Mindrum--UA, Katherine Preston--ACI-NA, and Jaideep Vaswani--LAWA))	\$500,000	\$500,000	18	03/15/2016
17-03-01	Airport Managers' Practical Guide to Connectivity Studies Arlyn Purcell (Port Auth of NY & NJ and team (Liyang Gu, Patty Clark, Susan Warner- Dooley))	\$400,000	See 17-03-03	15	03/15/2016

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17-03-02	Airport Security Master Plan Guidance Heidi Ann Benaman (Faith Group, LLC)	\$350,000	\$122,000	24	03/21/2016
17-03-03	Best Practices in Building Air Service Through Air Service Incentive Programs Megan S. Ryerson (University of Pennsylvania and Seth Young, Center for Aviation Studies)	\$350,000	\$350,000	16	03/18/2016
17-03-04	Assessing the Impact of Commercial Service Changes on Large/Medium Hub Airports NASAO (National Association of State Aviation Officials)	\$300,000	--	18	03/25/2016
17-03-05	Guidebook for Developing State Aviation System Plans NASAO (National Association of State Aviation Officials)	\$300,000	--	18	03/21/2016
17-03-06	Accurate Measurement of Airport Operations Counts Adam French (Indiana Dept. of Transportation, Office of Aviation)	\$400,000	--	18	03/21/2016
17-03-07	Optimal Intervention Design for Infectious Disease Mitigation in Airports Peng Wei (Iowa State University)	\$300,000	\$450,000	15	03/21/2016
17-03-08	Preserving General Aviation Airports Through the Purchase of Land Development Rights Richard E. Genday (and Thomas P. Thatcher, L.R. Kimball)	\$380,000	--	18	03/21/2016
17-03-09	Airports and UAS: Integrating UAS into Airport Infrastructure and Planning Heather Hasper (Jacobsen/Daniels and ACRP UAS Panel Workshop)	\$500,000	\$500,000	18	03/21/2016

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17-03-10	Collecting and Sharing Airport Safety and Operational Data Matt Griffin (The Airport Consultants Council (ACC), Planning & Environmental Affairs Committee)	\$310,000	\$400,000	24	03/21/2016
17-03-11	Handbook for Airports Evaluating Climate Resilience Through Benefit Cost Analysis Peter Adams (Port Authority of New York and New Jersey)	\$250,000	\$450,000	15	03/15/2016
17-03-12	Common Data for Airport Applications Jim Smith (Metron Aviation)	\$350,000	See 17-03-15	15	03/15/2016
17-03-13	Integrating Airport Access Planning with the Metropolitan Surface Transportation Plan J. Ronald Ratliff (University of Florida)	\$400,000	\$400,000	20	03/15/2016
17-03-14	Planning Guidebook of Aircraft Characteristics Nathan Cuvala (T-O Engineers)	\$250,000	\$250,000	15	03/15/2016
17-03-15	A Multi-Stakeholder Approach for Balancing Intra-day Airport Demand and Capacity Alexandre Jacquillat (Carnegie Mellon University)	\$495,000	\$450,000	24	03/21/2016
17-04-01	Summary of Recently Approved National and State Standards and Modification to Standards NASAO (National Association of State Aviation Officials)	\$300,000	\$400,000	10	03/20/2016
17-04-02	Unmanned Aircraft Systems (UAS) Integration, Impact, and Risk NASAO (National Association of State Aviation Officials)	\$500,000	\$300,000	22	03/20/2016
17-04-03	Summary of Current Practices for Addressing Tall Structures NASAO (National Association of State Aviation Officials)	\$400,000	See 17-04-15	20	03/21/2016

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17-04-04	Establishing a Network of Weather Reporting Sites to Ensure Adequate Coverage across the United States NASA0 (National Association of State Aviation Officials)	\$250,000	--	21	03/21/2016
17-04-05	Fatigue Management for Ramp Workers Laura K. Barger (Brigham & Women's Hospital and Charles A. Czeisler)	\$500,000	--	18	03/21/2016
17-04-06	Direct Pilot Feedback for Airports' SMS Thomas R. Anthony (University of Southern California)	\$117,000	--	18	03/21/2016
17-04-07	Integrate and Demonstrate NextGen Technology Applications to Enhanced Safety and Efficiency at Low Activity Airports Paul Fontaine (and Robert Samis, NextGen Technology Development and Portfolio Mgmt., FAA/ANG-C)	\$1,000,000	--	24	03/17/2016
17-04-08	Safety Risk Management Tools for Part 139 Airports Manuel Ayres (Airport Safety Management Consultants, LLC)	\$300,000	--	18	03/17/2016
17-04-09	Statewide and Regional Consortia for Emergency Training and Exercises for Small Airports David Beaver (ACRP Synthesis S04-17 Topic Panel and Team)	\$275,000	\$300,000	18	03/17/2016
17-04-10	Best Practices for Airfield Pavement Markings Geoff Baskir (Chair, TRB AV070)	\$250,000	--	17	03/18/2016
17-04-11	Supplementing Airport Emergency Communications Staffs James F. Smith (Smith-Woolwine, Inc. and ACRP Synthesis S04-16)	\$250,000	See 17-04-13	18	03/20/2015
17-04-12	Training and Exercise Guidance for Local Law Enforcement James F. Smith (Smith-Woolwine, Inc. and ACRP Synthesis S04-16)	\$300,000	\$300,000	12	03/21/2016

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17-04-13	Measuring Effectiveness of Airport Emergency James F. Smith (Smith-Woolwine, Inc. and ACRP Synthesis S04-16)	\$250,000	\$350,000	21	03/19/2016
17-04-14	PIO Roles during Emergencies at Airports James F. Smith (Smith-Woolwine, Inc. and ACRP Synthesis S04-16)	\$225,000	See 17-04-13	16	03/21/2016
17-04-15	Evaluating the Effectiveness of Airport Hazard Zoning at General Aviation Airports Richard E. Genday (and Thomas P. Thatcher, L.R. Kimball)	\$455,000	\$350,000	15	03/20/2015
17-04-16	Developing Arresting Systems for Small Aircraft at General Aviation Airports Thomas Mahoney (Mass DOT, Aeronautics Division)	\$350,000	--	24	02/24/2016
17-06-01	Improving Airport Contributions to the Investigation and Interdiction of Human Trafficking Chris Baglin (PPC (People - Integrity- Excellence))	\$150,000	--	18	03/17/2016
17-06-02	Cross-Utilization of Airport Employees John Shideler (Futurepast, Inc.)	\$450,000	--	21	03/21/2016
17-06-03	Staffing and Budget Strategies for Airport Environmental Programs Kim McGreal (City of Cleveland Dept. of Port Control and John Lengel)	\$300,000	--	24	03/21/2016
17-07-01	Practical Design of Hub and Non-Hub Passenger Terminals Daniel J. Millenacker (FAA Dakota-Minnesota Airports District Office - Minneapolis)	\$320,000	--	18	03/30/2016
17-07-02	Update Runway Length Calculation Charts for General Aviation Aircraft greater than 12,500 lbs. MTOW and Light Jets Kyle Wanner (North Dakota Aeronautics Commission)	\$500,000	\$300,000	36	03/15/2016

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17-07-03	Aviation Symbol System & Guidelines Jim Harding (Smith & Partners and Mies Hora, Ultimate Symbol)	\$500,000	--	24	03/21/2016
17-07-04	Risk-Based Approach for Determination of Runway Distance Required and Runway Use Manuel Ayres (Airport Safety Management Consultants, LLC)	\$400,000	--	24	03/21/2016
17-07-05	Develop Airport Tenants Sustainability Guidelines Sam Mehta (San Francisco International Airport)	\$500,000	\$300,000	24	03/21/2016
17-08-01	Approaches to Mitigate Alkali Silica Reaction (ASR) Effects at Airports Michael T. McNerney (The University of Texas at Arlington)	\$400,000	\$122,000	15	03/18/2015
17-08-02	Incorporating Collaborative Partnering into Traditional Airport Construction Projects Geoff Neumayr (San Francisco International Airport)	\$350,000	\$350,000	18	03/20/2015
17-08-03	Increasing Joint Spacing for Lower Maintenance Concrete Pavements Michael T. McNerney (The University of Texas at Arlington)	\$300,000	--	24	03/20/2015
17-08-04	An Approach to Reduce Incidents During Airport Infrastructure Improvement Projects Semiha Ergan (NYU Tandon School of Engineering)	\$390,000	--	18	03/20/2015
17-09-01	Guidance for Developing a BIM-Enabled Facility Management Strategy Dominique Pittenger (and ACRP 11-03/509-07)	\$400,000	\$325,000	24	03/11/2016
17-09-02	Leveraging Building Information Modeling (BIM) Data for Airport Needs Randy Murphy (Grafton Technologies, Inc.)	\$200,000	See 17-09-01	12	03/21/2016

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17-09-03	Best Practices for Airport Obstruction Management Enrique Sanabria (The Port Authority of New York and New Jersey)	\$300,000	\$300,000	14	03/21/2016
17-09-04	Collection of Pavement Condition Data According to ASTM D5340 and Use of the Pavement Condition Index Procedure In Airport Decisions David Peshkin (Applied Pavement Technology Inc.)	--	\$250,000	--	--
17-10-01	Modernization of Existing Tools to Mitigate FOD and Vehicle Incursions Patti J. Clark (and David C. Ison, Embry-Riddle Aeronautical University - Worldwide)	\$400,000	--	24	03/08/2016
17-10-02	Unmanned Systems' Operational Integration into Airport Controlled Movement Stefan Kleinke (Embry-Riddle Aeronautical University, College of Aeronautics Worldwide)	\$395,000	\$400,000	15	02/28/2016
17-10-03	Green Taxiing At Airports: A Primer Gael Le Bris (Paris-CDG airport (LFPG), Aéroports de Paris S.A.)	\$300,000	\$250,000	18	03/10/2016
17-10-04	Best Practices for Airport Project Prioritization and Asset Management at the State Level NASAO (National Association of State Aviation Officials)	\$300,000	--	18	03/15/2016
17-10-05	Assessing Opportunities to use Airports Geographic Information System (Airports GIS) with FAA 5010 Inspections and Other Applications NASAO (National Association of State Aviation Officials)	\$200,000	--	15	03/15/2016
17-10-06	Best Practices for State Aeronautics Division Performance Measures NASAO (National Association of State Aviation Officials)	\$350,000	--	18	03/15/2016

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17-10-07	Enhancing the Management of Irregular Operations (IROPS) and Crisis with the Airport Collaborative Decision-Making (A-CDM) Gael Le Bris (Paris-CDG airport (LFPG), Aéroports de Paris S.A.)	\$300,000	--	18	03/15/2016
17-10-08	Approaching Detection and Response Protocols to Unauthorized UAS Operations in Airport Airspace Mike Cheston (Advanced Sciences and Technologies)	\$400,000	--	15	03/17/2016
17-10-09	Airports and UAS: Managing UAS Operations in the Airport Vicinity Mike Scott (Reno-Tahoe Airport Authority and ACRP UAS Panel Workshop)	\$300,000	\$350,000	12	03/25/2016
17-10-10	Best Practices in Developing and Implementing Effective Gating Policies Paul Fishburn (Morteza Assadi, Jessica Gafford, TransSolutions)	\$225,000	--	12	03/21/2016
17-10-11	Optimizing Airfield Snow Removal Planning Stephen Lehocky (and Jessica Gafford, TransSolutions)	\$400,000	--	18	03/21/2016
17-10-12	Improving Runway Assessments through Real Time Runway Friction Monitoring Enrico Nino Manes (United Technologies Research Center)	\$460,000	--	18	03/21/2016
17-10-13	Alternative Taxi Tug with APU Services Thomas Filburn (United Technologies Research Center)	\$475,000	See 17-10-03	18	03/21/2016
17-10-14	Best practices for the Safest, Most Efficient and Customer Centric Processing for Departing Passengers and Baggage Waguih F. Ouess (former System Director with Pan American World Airways)	\$350,000	\$300,000	24	03/25/2016