

Total Problem Statements: 126

Problem	Title / Submitter (Agency)	Amount	Duration	Submitted
12-01-01	Succession Planning in Airport Management Peter Higgins (and Randall Berg, Salt Lake City Dept of Airports)	\$250,000	18	01/25/2011
12-01-02	Conducting Effective Peer Reviews Marci A. Greenberger (Airport Cooperative Research Program)	\$350,000	12	01/19/2011
12-01-03	The Potential for Congestion Pricing Schemes for use of the Airport Roadway System Diane M. Ricard (DMR Consulting and Craig Leiner Chairman, TRB Cmte AV050)	\$525,000	24	03/04/2011
12-01-04	Airport Information Systems: Improving Communication with Audio-Visual Animation Kevin Bradley (Blue Ridge Research and Consulting LLC)	\$600,000	24	03/06/2011
12-01-05	Airport Organization Lloyd A. McCoomb (Greater Toronto Airports Authority)	\$250,000	12	03/09/2011
12-01-06	Economic Impact of Airports in the United States A. J. Muldoon (AC-NA)	\$480,000	15	03/04/2011
12-01-07	Framework for Airport Building & Interior Data Management and Visualization Frank Wang (SpatialCubes, Inc.)	\$500,000	24	03/04/2011
12-01-08	International Airport Studies Program Geoffrey A. Rabinowitz (Airport Advantage Consulting)	\$500,000	12	04/09/2009
12-01-09	Airport Community Operational Information Sharing Guidebook Frank Barich (Barich, Inc.)	\$500,000	9	03/09/2011
12-01-10	Develop Method for Introduction of Un-leaded Avgas at GA Airports Stan O'Brien	\$500,000	24	03/09/2011
12-01-11	A guidebook for Risk Assessment for Capital and Maintenance Projects in Airports Ali Touran (Northeastern University, Dept. of Civil & Environ. Engineer)	\$400,000	24	03/10/2011

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12-01-12	ACRP Innovations Deserving Exploratory Analysis (IDEA) Project Jon Williams (Transportation Research Board)	\$600,000	24	03/14/2011
12-01-13	Guidebook for the Evaluation of and Formation of Airport-Airline Consortiums to Manage Terminals and Equipment Susan Warner-Dooley (HNTB)	\$150,000	9	03/14/2011
12-01-14	Property Management Strategies for Airports Lois Kramer (KRAMER aeroteck inc)	\$350,000	18	03/14/2011
12-01-15	Benchmarking Customer Service Delivery at Airports Chellie Cameron (Metropolitan Washington Airports Authority)	\$450,000	18	03/14/2011
12-01-16	National Disadvantaged Business Enterprise (DBE) Certification Training Program Diane Pryor-Vercelli (ACI-NA Business Diversity Cmte, Hillsborough County Aviation Authority)	\$500,000	18	03/30/2011
12-02-01	Compilation and Evaluation of Air Quality Monitoring and Public Health Studies at Airports Keith Beasley (Massachusetts Port Authority)	\$300,000	15	12/16/2010
12-02-02	Terminal area exposure to lubrication oil and TCP (tricresylphosphate) Richard C. Miake-Lye (Aerodyne Research, Inc.)	\$500,000	18	02/10/2011
12-02-03	Utilizing Airport Contracts as an Environmental Performance Tool Elizabeth Leavitt (and Russ Simonson, Port of Seattle, Aviation Division)	\$125,000	9	11/15/2010
12-02-04	Understanding Green Energy Technologies' Effects on the Air Transportation System Scott R. Brummond (Bureau of Aeronautics, Wisconsin DOT)	\$450,000	18	10/12/2010
12-02-05	Assessment of Downwind Ambient Ultrafine Particle Number and Size Distribution Concentrations Associated with Daily Activities from Airplane and Ground Source Equipment Mobile Source Combustion Timothy R. McAuley (Air, Nature & a Greener Environment, LLC)	\$800,000	24	03/01/2011
12-02-06	Multimodal Transportation Environmental Analysis Tool Thomas Connor (Wyle Environmental and Energy Research and Consulting)	\$650,000	24	03/04/2011
12-02-07	Optimizing Aviation's Role in Developing Sustainable Multi-modal Transportation Systems Burr Stewart	\$400,000	18	03/03/2011

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12-02-08	Modeling Tailored Aircraft Arrivals in Standard Environmental Tools David W. Forsyth (The Boeing Company)	\$300,000	12	03/03/2011
12-02-09	Modeling Reduced Thrust Takeoffs in Standard Environmental Tools David W. Forsyth (The Boeing Company)	\$150,000	12	03/03/2011
12-02-10	Guidance Document for Helicopter Community Noise Prediction Juliet Page (Wyle Laboratories, Inc.)	\$100,000	12	03/09/2011
12-02-11	Operational, Spatial, and Flow Management of Aircraft Emissions at Airports Damon Fordham (PPC/AEA Group)	\$400,000	18	03/04/2011
12-02-12	Improved Take-Off Thrust Setting Estimates for Airport Emissions Inventories Damon Fordham (PPC/AEA Group)	\$450,000	18	03/04/2011
12-02-13	Brake, Tire and Resuspension Sources of Particulate Matter (PM) at Airports Damon Fordham (PPC/AEA Group)	\$150,000	18	03/04/2011
12-02-14	Optimizing the Operational and Environmental Costs of Aircraft De-Frosting John D'Avirro (APS Aviation In.)	\$300,000	18	03/04/2011
12-02-15	Alternative Aircraft Ground Propulsion to Reduce Carbon Footprint Richard Fox (Honey Engineering Tech)	\$350,000	18	03/04/2011
12-02-16	Applicability of Whole Effluent Toxicity Testing to Evaluating Airport Runoff Glenn R. Smart (The Smart Associates, Environmental Consultants, Inc)	\$350,000	18	03/04/2011
12-02-17	Full Airport Comparison of Noise Simulation Models with INM Bruce J. Ikelheimer (Blue Ridge Research and Consulting, LLC)	\$220,000		03/04/2011
12-02-18	Computational Modeling of the Environmental Impact of Airports to the Surrounding Community Tomoya T. Ochinero (Structural Mechanics Corporation)	\$350,000	18	03/04/2011
12-02-19	Optimization of Aircraft Flight Procedures to Reduce Noise Beyond DNL 65 Michael Downing (Blue Ridge Research and Consulting LLC)	\$400,000	20	03/04/2011

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<u>12-02-20</u>	Evaluate and Quantify Emission Reduction Opportunities Associated with Aircraft Movements John Trendowski (C&S Companies)	\$500,000	24	03/07/2011
<u>12-02-21</u>	Greenhouse Gas (GHG) Emissions Inventory Tool for Airports Dee Warren (555 17th Street Suite 1100)	\$500,000	24	03/05/2011
<u>12-02-22</u>	Predicting Community Reactions to Changed Aircraft Operations Nicholas P. Miller (Harris Miller Miller & Hanson, Inc)	\$400,000	24	03/01/2011
<u>12-02-23</u>	PM Emission Characterization for Aircraft Engine Lubricating Oil Emissions Sandy Webb (Environmental Consulting Group, LLC and Phil Whitefield, Missouri University of Science and Tech)	\$500,000	18	03/09/2011
<u>12-02-24</u>	Develop a Generic Commercial Jet Taxi Noise Directivity Pattern for AEDT Juliet Page (Wyle Laboratories, Inc.)	\$75,000	9	03/09/2011
<u>12-02-25</u>	Climate Change Adaptation Planning: Risk Assessment Model Pilot Mary Ellen Eagan (Harris Miller Miller & Hanson, Inc.)	\$800,000	24	03/04/2011
<u>12-02-26</u>	Environmental Assessment of High Speed Rail and Air Corridors Mary Ellen Eagan (Harris Miller Miller & Hanson, Inc.)	\$500,000	24	03/04/2011
<u>12-02-27</u>	Lack of Comprehensive Research Covering Sustainability Issues, Benchmarking and ROI. Linda Moffat (Sustainable Collaborations Group, LLC)	\$500,000	12	03/09/2011
<u>12-02-28</u>	Impacts of Airport Deicers/Anti-icers on the Surrounding Environments Laura Fay (Montana State University, Western Transp. Inst.)	\$450,000	36	03/11/2011
<u>12-02-29</u>	Understanding Gaseous HAPs Species Chemical Transformation at Airports Brian Kim (Wyle, Inc.)	\$500,000	24	03/14/2011
<u>12-02-30</u>	Development of Guidance to Support the Use of AEDT with Air Traffic Simulation Tools Brian Kim (Wyle, Inc.)	\$400,000	18	03/14/2011

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12-02-31	Innovation in response to threatened and endangered species: airport use of Candidate Conservation Agreements, Safe Harbor Agreements, and Habitat Conservation Plans. Dana Green (Port of Portland)	\$100,000	18	03/14/2011
12-02-32	Airport and Aircraft Fuel Burn, Emissions and Noise Reductions for Self-Propelled Landing Gear Rhett Jefferies (Federal Aviation Administration)	\$400,000	12	03/14/2011
12-03-01	Strategies for Improving Airport Highway System Connector Roads Joe Navarrete (Airport Cooperative Research Program)	\$400,000	18	02/23/2011
12-03-02	Guidebook for Implementing FAA's Airports Geographic Information System (AGIS) Program Justin Bychek (HNTB Corporation)	\$572,000	12	02/28/2011
12-03-03	Improving Standards-Based Collection and Verification of Airport Surveys Nicholas Hunter (CAN)	\$360,000	18	03/04/2011
12-03-04	The Cost of Delays Due to Unmet Flights and the Impact on Airports and Passengers Belinda G. Hargrove (TransSolutions, LLC)	\$300,000	18	03/04/2011
12-03-05	Administrative and Management Challenges for Emerging Airport Enterprises Lois Kramer (KRAMER aeroteck inc)	\$400,000	20	03/06/2011
12-03-06	The Changing Effect of Air Traveler Behavior and Demographic and Socio-Economic Factors on Air Travel Demand and Airport Traffic Forecasting J. Paul Cripwell (Traffic Analysis and Forecasting, NAV CANADA)	\$500,000	30	03/04/2011
12-03-07	Airline Maintenance Cost Model Giday Gimay	\$350,000	18	03/07/2011
12-03-08	Development of a Prototype Air Passenger Survey Database Geoffrey Gosling (Aviation System Consulting)	\$200,000	12	03/03/2011
12-03-09	Civil Aircraft Accidents - An Assessment of Accident Location and Creation of an Analysis Model for Land Use Compatibility Stephanie Ward (Mead & Hunt, Inc.)	\$700,000	27	03/02/2011
12-03-10	Software for Airport Safety Management Systems Roger Studenski (Jacksonville Aviation Authority)	\$450,000	18	04/04/2010

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12-03-11	Disease Readiness Tool for Airports Grace M. Hwang (The MITRE Corporation)	\$750,000	24	03/07/2011
12-03-12	Economic and Financial Analysis of Essential Air Service Subsidy Program Sharon Sarmiento (and Barry Molar, Unison Consulting, Inc.)	\$500,000	24	03/10/2011
12-03-13	Using Roundtables to Disseminate Contingency Guidebooks and Research NextGen Potential Stephanie Ward (Mead & Hunt, Inc.)	\$185,000	15	03/09/2011
12-03-14	Airport Growth Dynamism and Its implications on NAS Network and Forecasting Benefit Dipasis Bhadra (Federal Aviation Administration)	\$400,000	18	03/14/2011
12-03-15	The Short Distance Feeder Segment: A Challenge for Airport Management Richard Marchi (Airports Council International - North America)	\$450,000	24	03/15/2011
12-04-01	Evaluation of Alternative Organizations for Emergency Management for Airports James F. Smith (Smith Woolwine Associates, Inc.)	\$350,000	18	02/24/2011
12-04-02	International (Transborder) Airport-to-Airport Mutual Aid James F. Smith (Smith Woolwine Associates, Inc.)	\$500,000	24	02/24/2011
12-04-03	Magnetic North Shift James F. Smith (Smith Woolwine Associates, Inc.)		36	02/24/2011
12-04-04	Model Mutual Aid Agreements for Airports James F. Smith (Smith Woolwine Associates, Inc.)	\$400,000	24	02/24/2011
12-04-05	Terminal Evacuation Planning James F. Smith (Smith Woolwine Associates, Inc.)	\$500,000	18	02/24/2011
12-04-06	Trips and Falls by Ageing Airport Users James F. Smith (Smith Woolwine Associates, Inc.)	\$600,000	30	02/24/2011
12-04-07	Evaluating the Effectiveness of Airport Wildlife Hazard Management Plan Implementation Richard E. Genday (R Kimball & Associates)	\$550,000	18	04/14/2010

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12-04-08	Developing and Implementing an Airport Emergency Plan for Non-Towered Airports Kerry Ahearn (Boulder City Municipal Airport)	\$400,000	16	02/24/2011
12-04-09	Modeling for Prioritization of Disease Control and Surveillance at Airports Andrew Tatem	\$400,000	24	03/01/2010
12-04-10	Development of a Tool and Guidance to Assess the Potential Impacts of Solar Glare on Airport and Aviation Stephen Barrett (Harris Miller Miller & Hanson Inc.)	\$300,000	12	03/04/2011
12-04-11	Analysis of Aircraft Lateral and Vertical Deviations During Approach and Takeoff Geoffrey Baskir (Parsons Brinckerhoff, Inc.)	\$500,000	24	03/04/2011
12-04-12	Measuring Aircraft Landing Requirements on Contaminated Runways Susan L. Tighe (University of Waterloo)	\$400,000	24	03/04/2011
12-04-13	Wind Profiling System to Address General Aviation Airport Wind Hazards Lisa Spaeth (Ophir Corporation)	\$300,000	18	03/03/2011
12-04-14	Minimizing Bird Hazards at Southeastern Airports through Airside Vegetation Management Elizabeth Guertal (Auburn University)	\$328,500	33	03/03/2011
12-04-15	Developing a means to effectively utilize aircraft Emergency Locator Transmitters (ELT's) information and or another aircraft navigational and position information to support more effective ARFF/EMS response ... Paul Cudmore (Eagle Integrated Solutions)	\$300,000	24	03/04/2011
12-04-16	Smart, All-Weather, 24 x 7 Intrusion Detection for Airport Waterside Perimeters. Dennis Treece (Massachusetts Port Authority)	\$500,000	18	03/01/2011
12-04-17	Chemical and Biological Attack Readiness Planning for Airports and Airlines Grace M Hwang (The MITRE Corporation)	\$400,000	18	03/14/2011
12-04-18	Enhancing Existing Location Models for Analysis of Runway Safety Areas (RSA) Wes Timmons (Federal Aviation Administration)	\$150,000	12	03/14/2011

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12-05-01	Understanding the Screening Partnership Program/“Opt-Out” Timothy Skinner (Lihue Airport)	\$250,000	12	03/04/2011
12-06-01	Identifying Success Factors for Developing a Sustainable Workforce for the Future Cindy Chase (Reno-Tahoe Airport Authority)	\$350,000	15	03/04/2011
12-07-01	Application of Queuing Theory to Airport Related Problems Lloyd A. McCoomb (Greater Toronto Airports Authority)	\$250,000	12	03/02/2011
12-07-02	Guidebook for the Preparation of Planning Day Schedules Lloyd A. McCoomb (Greater Toronto Airports Authority)	\$350,000	12	02/14/2011
12-07-03	Runway and Taxiway Pavement Width Requirements for Group VI Aircraft Mike Hines (Metropolitan Washington Airports Authority)	\$500,000	24	03/04/2011
12-07-04	On Demand Escalators and Moving Walkways at Airports to Reduce Energy Consumption, Improve Air Quality and Reduce Maintenance Costs Jessica Steinhilber (Airports Council International - North America (on behalf of the ACI-NA Environmental Affairs Cmte))	\$250,000	18	03/07/2011
12-07-05	Aircraft Ramp/Apron Standards Yasmina Platt (Atlanta International Airport)	\$150,000	6	03/03/2011
12-07-06	General Aviation Terminal, Apron, and Hangar Area Planning and Design Chris Hugunin (Federal Aviation Administration, Office of Airports)	\$300,000	15	03/04/2011
12-07-07	Public Restroom Design for Airport Terminals Dean N. Schuerman (Leo A. Daly)	\$500,000	14	03/04/2011
12-08-01	Guidebook to Airport Construction Project Quality Assurance and Quality Control (QA/QC). Richard E. Genday (R Kimball & Associates)	\$500,000	18	03/04/2011
12-08-02	Improvement of Construction Quality at Airports Grant Projects Edward G. Balter (The Robert B. Balter Company)	\$450,000	18	03/04/2011
12-08-03	Evaluate of Professional Services Proposals Submitted For Airport Construction Projects Reginald Norman (Denver International Airport)	\$300,000	15	03/11/2012

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12-08-04	Evaluating Non-Traditional Construction Materials for Airport Infrastructure Durability and Sustainability Shane X Shi (Applied Materials Sustainability Inc.)	\$500,000	20	03/10/2011
12-08-05	Project Management Coordination 101 Kimberly Kenville (UND Areospace)	\$350,000	15	03/10/2011
12-09-01	Best Practices to Develop Bid Lists and Qualified Consultants ACRP Maint. Workshop	\$400,000	20	10/07/2010
12-09-02	Computer Maintenance Management System (CMMS) Best Practices ACRP Maint. Workshop	\$400,000	18	10/07/2010
12-09-03	Determining the Total Cost of Ownership on Equipment and Other Assets ACRP Maint. Workshop	\$350,000	15	10/07/2010
12-09-04	Airport Maintenance Training Program ACRP Maint. Workshop	\$350,000	15	10/07/2010
12-09-05	The Benefits of Maintenance Personnel in the Planning, Design, Construction, Commissioning and Procurement Processes ACRP Maint. Workshop	\$300,000	14	10/07/2010
12-09-06	Sustainable Practices and its Impact on Maintenance Budget and Operations ACRP Maint. Workshop	\$300,000	13	10/07/2010
12-09-07	LED Parking Structure Lighting for Airports Jessica Steinhilber (Airports Council International - North America (on behalf of the ACI-NA Environmental Affairs Cmte))	\$300,000	24	02/16/2011
12-09-08	Development of Re-commissioning/Re-tuning Guideline for Airport Facilities Guopeng Liu (Pacific Northwest National Laboratory)	\$180,000	15	06/21/2011
12-09-09	Guidebook for Designing, Managing, and Maintaining Turf Airfields Tricia L. Schoeneck Lambert (NHDOT, Bureau of Aeronautics)	\$150,000	12	03/02/2011
12-09-10	Use of Holdover Time Determination System Outputs to Assist in Assessment and Maintenance of Contaminated Runways John D'Avirro (APS Aviation In.)	\$300,000	22	03/04/2011

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12-09-11	Enhancing Compatibility of Storm Water and Wildlife Management Plans at Airports Nick Atwell (Port of Portland)	\$150,000	18	03/04/2011
12-09-12	Enabling Corrosion-Condition-Based Maintenance and Improving Asset Management Xianming Shi (Montana State University)	\$450,000	36	03/11/2011
12-09-13	Develop a Cost Savings Tool for Airport Baggage Systems Eric Miller (TransSolutions, LLC)	\$450,000	18	03/14/2011
12-09-14	Building Information Modeling for Facilities and Asset Management Lifecycle Dennis Rodriguez (AECOM - Transportation)	\$450,000	18	03/14/2011
12-10-01	Planning for Large Scale Planned Special Events ACRP Ops. Workshop	\$400,000	15	10/06/2010
12-10-02	Activating and Charting Runway and Taxiways ACRP Ops. Workshop	\$300,000	12	10/06/2010
12-10-03	Educating your Community on FAR Part 77 and its Impacts on Safety ACRP Ops Workshop	\$350,000	14	10/06/2010
12-10-04	Mobile Technology Best Management Practices ACRP Ops. Workshop	\$450,000	18	10/06/2010
12-10-05	Educating Airport and Off-Airport Emergency Responders on Integrating NIMs to the Airport Environment ACRP Ops. Workshop	\$350,000	12	10/06/2010
12-10-06	Designing for Disrupted Aviation Operations and Valuing Solutions Rick Busch (Denver International Airport)	\$450,000	21	02/28/2011
12-10-07	Recommended Common Standards for Airport Parking Revenue and Access Control Systems Craig Leiner (Massachusetts Port Authority)	\$300,000	18	02/25/2011
12-10-08	Guidebook for Managing through the Fence Operations at General Aviation Airports Richard E. Genday (R Kimball & Associates)	\$570,000	18	04/14/2010

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12-10-09	Airport Winter Operations Guidebook Lloyd A. McCoomb (Greater Toronto Airports Authority)	\$500,000	18	02/14/2011
12-10-10	Best Practices and Potential Benefits of a Single, Unified Airport Ground Transportation Shuttle Service based on Dynamic Routing Elizabeth Leavitt (and Russ Simonson, Port of Seattle, Aviation Division)	\$400,000	18	01/31/2011
12-10-11	Guidebook for Conducting Aeronautical Events at General Aviation Airports Tricia L. Schoeneck Lambert (NHDOT, Bureau of Aeronautics)	\$50,000	12	03/02/2011
12-10-12	Near Field Communications (NFC) at the Airport/Airline Environment Don Osler (Southwest Airlines, Corporate Facilities)	\$100,000		03/02/2011
12-10-13	Prevention of Frost Development on Aircraft Surfaces John D'Avirro (APS Aviation In.)	\$400,000	12	03/04/2011
12-10-14	De/Anti-Icing Optimization Handbook For Small Airports John D'Avirro (APS Aviation In.)	\$300,000	18	03/04/2011
12-10-15	Wildlife Deterrents using Habitat Modification at Airports John Ostrom (Metropolitan Airport Commission - Minneapolis-St. Paul International Airport)	\$110,000	8	03/04/2011
12-10-16	Design Airport Collaborative Operation Models supported by Airport-Centric Operations Portal Stephanie Ward (Mead & Hunt, Inc.)	\$325,000	15	03/09/2011
12-10-17	Best Practices of Managing Concrete Alkali-Silica Reaction Induced by Acetate-based Deicers Xianming Shi (Montana State University)	\$400,000	36	03/09/2011