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1. A1: Aviation Safety

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

The Aviation Safety Program conducts fundamental research and technology development of known and predicted safety concerns as the nation transitions to the Next Generation Air Transportation System (NextGen). Future challenges to maintaining aviation safety arise from expected significant increases in air traffic, continued operation of legacy vehicles, introduction of new vehicle concepts, incre ...

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2. A2: Air Traffic Management Research and Development (ATM R&D)

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Air Traffic Management Research and Development (ATM R&D) NASA has two Programs conducting ATM R&D. The Airspace Systems Program (ASP) is investing in the development, validation and transfer of advanced innovative concepts, technologies and procedures to support the development of the Next Generation Air Transportation System (NextGen). The Integrated Systems Research Program (ISRP) is conducting ...

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3. A1.01: Aviation External Hazard Sensor Technologies

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: LaRC Participating Center(s): DFRC, GRC NASA is concerned with the prevention of encounters with hazardous in-flight conditions and the mitigation of their effects when they do occur. Hazardous flight conditions of particular interest are: wake vortices, clear-air turbulence, in-flight icing, lightning, and low visibility. NASA is interested in new and innovative methods for detect ...

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4. A1.02: Inflight Icing Hazard Mitigation Technology

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: GRC NASA is concerned with the prevention of encounters with hazardous in-flight conditions and the mitigation of their effects when they do occur. Under this subtopic, proposals are invited that explore new and dramatically improved technologies related to inflight airframe and engine icing hazards for manned and unmanned vehicles. Technologies of interest should address the detecti ...

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5. A1.03: Flight Deck Interface Technologies for NextGen

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: LaRC Public benefits derived from continued growth in the transport of passengers and cargo are dependent on the improvement of the intrinsic safety attributes of current and future air vehicles that will operate in NextGen. The Aviation Safety Program (AvSP) is addressing this challenge by conducting cutting-edge fundamental and applied research that will yield innovative algorithms ...

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6. T1: Launch Propulsion Systems

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Includes all propulsion technologies required to deliver space missions from the surface of the Earth to Earth orbit or Earth escape, including solid rocket propulsion systems, liquid rocket propulsion systems, air breathing propulsion systems, ancillary propulsion systems, and unconventional/other propulsion systems. The Earth to orbit launch industry is currently reliant on very mature technolog ...

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7. T1.01: Launch Vehicle Propulsion Technologies

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: MSFC Participating Center(s): SSC OCT Technology Area: TA01 Heavy lift launch vehicles envisioned for exploration beyond low Earth orbit (LEO) will require large first stage propulsion systems. For some heavy lift vehicles, the total thrust produced at lift-off will exceed 6 million pounds. There are currently available practical propulsion options for such a vehicle. However, the co ...

STTR National Aeronautics and Space Administration

8. A1.04: Vehicle Level Diagnostics

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: LaRC Participating Center(s):ARC, DFRC, GRC This SBIR subtopic augments on-going activities in the Vehicle Systems Safety Technology (VSST) project within NASA's Aviation Safety Program. Specifically, this subtopic addresses the "Maintain Vehicle Safety between Major Inspections" (MVS) technical challenge. The MVS technical challenge concentrates on capabilities to maintain vehicle s ...

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9. A1.05: Data Mining and Knowledge Discovery

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: ARC The fulfillment of the SSAT project's goal requires the ability to transform vast amounts of data produced by aircraft and associated systems and people into actionable knowledge that will aid in detection, causal analysis, and prediction at levels ranging from the aircraft-level, to the fleet-level, and ultimately to the level of the national airspace. For this topic, we are esp ...

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10. A1.06: Assurance of Flight-Critical Systems

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: ARC Participating Center(s): LaRC The purpose of this subtopic is to invest in mid- and long-term research to establish rigorous, systematic, scalable, and repeatable verification and validation methods for flight-critical systems, with a deliberate focus on safety for NextGen (http://www.jpdo.gov). This subtopic targets NextGen safety activities and interests encompassing vehicles, ...

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