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1. A3.02: Autonomy of the National Airspace System (NAS)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):LaRCDevelop concepts or technologies focused on increasing the efficiency of the air transportation system within the mid-term operational paradigm (2025-2035 time frame), in areas that would culminate in autonomy products to improve mobility, scalability, efficiency, safety, and cost-competitiveness. Proposals in the followings areas in product-oriented rese ...

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2. A3.03: Future Aviation Systems Safety

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):LaRCThe Aeronautics Research Mission Directorate (ARMD) will be concluding the successful Aviation Safety Program (AvSP). The newly expanded Airspace Operations and Safety Program (AOSP) will be succeeding AvSP's significant achievements and stepping up to lead the ARMD research in the area of Real-Time System-Wide Safety Assurance (RSSA). As currently envi ...

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3. A3: Airspace Operations and Safety

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

The Airspace Operations and Safety Program (AOSP) seeks innovative and feasible concepts and technologies to enable significant increases in the capacity and efficiency of the Next Generation Air Transportation System (NextGen) while maintaining or improving safety and environmental acceptability. AOSP activities and projects will target system-wide operational benefits of high impact for NextGen ...

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4. H1.01: Regolith ISRU for Mission Consumable Production

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCParticipating Center(s):MSFC,GRC,KSC,JPLIn-Situ Resource Utilization (ISRU) involves collecting and converting local resources into products that can reduce mission mass, cost, and/or risk of human exploration. The primary destinations of interest for human exploration, the Moon, Mars and it's moons, and Near Earth Asteroids, all contain regolith/soil that contain resources that c ...

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5. H1: In-Situ Resource Utilization

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

The purpose of In-Situ Resource Utilization (ISRU) is to harness and utilize resources (both natural and discarded material) at the site of exploration to create products and services

which can enable new approaches for exploration and significantly reduce the mass, cost, and risk of near-term and long-term space exploration. The ability to make propellants, life support consumables, fuel cell rea ...

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6. H10.01: Cryogenic Purge Gas Recovery and Reclamation

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:SSCParticipating Center(s):KSC,GRCHelium is becoming a major issue for NASA and the country. Helium is used as a purge gas in cryogenic piping systems to reduce the concentration of hydrogen below the flammable threshold at test and launch complexes. Most of the Nation's helium comes from the National Helium Reserve operated by the Bureau of Land Management (BLM). The statutory authori ...

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7. H10: Ground Processing

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Ground Processing technology development prepares the agency to test, process and launch the next generation of rockets and spacecraft in support of NASA s exploration objectives by developing the necessary ground systems, infrastructure and operational approaches. This topic seeks innovative concepts and solutions for both addressing long-term ground processing and test complex operational chal ...

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8. H11.01: Radiation Shielding Technologies

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):MSFCAdvances in radiation shielding technologies are needed to protect humans from the hazards of space radiation during NASA missions. All space radiation environments in which humans may travel in the foreseeable future are considered, including low Earth orbit (LEO), geosynchronous orbit (GEO), Moon, Mars, and the Asteroids. All particulate radiations are ...

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9. H11: Radiation Protection

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

The SBIR Topic area of Radiation Protection focuses on the development and testing of mitigation concepts to protect astronaut crews from the harmful effects of space radiation, both in low Earth orbit (LEO) and while conducting long duration missions beyond LEO. All space radiation environments in which humans may travel in the foreseeable future are considered, including geosynchronous orbit (GE ...

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10. H12.01: Measurements of Net Ocular Blood Flow

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCParticipating Center(s):JSCThe goal of this SBIR call is the development of rapid and accurate hardware to characterize the net blood flow to and from the eye. Due to limits on instrumentation, most of the literature on ocular blood flow to date has emphasized measurements that only partially characterize the net flow, such as minimum and maximum velocity in a single retinal arteria ...

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