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1. H14: International Space Station (ISS) Demonstration & Development of Improved Exploration Technologies and Increased ISS Utilization

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

   The Human Exploration and Operations Mission Directorate (HEOMD) is chartered with the development of the core transportation elements, key systems, and enabling technologies required for beyond-Low Earth Orbit (LEO) human exploration that will provide the foundation for the next half-century of American leadership in space exploration. This new deep space exploration era starts with increasingly ...

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2. H2.01: In-Space Chemical Propulsion

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

   Lead Center:GRCParticipating Center(s):JSC,MSFCThe goal of this subtopic is to examine a range of key technology options associated with space engines that use methane as the propellant. Successful proposals are sought for focused investments on key technologies and design concepts that may transform the path for future exploration of Mars. In-space propulsion is defined as the development and dem ...

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3. H2.02: Nuclear Thermal Propulsion (NTP)

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

   Lead Center:MSFCParticipating Center(s):GRC,SSCSolid core NTP has been identified as an advanced propulsion concept which could provide the fastest trip times with fewer SLS launches than other propulsion concepts for human missions to Mars over a variety of mission years. The current NASA Strategic Space Technology Investment Plan states NTP is a high priority technology needed for future human e ...

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4. H2.03: High Power Electric Propulsion

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

   Lead Center:GRCParticipating Center(s):MSFC,JPLThe goal of this subtopic is to develop innovative technologies that can lead to high-power (100-kW to MW-class) electric propulsion systems. High-power solar or nuclear electric propulsion may enable dramatic mass and cost savings for lunar and Mars cargo missions, including Earth escape and near-Earth space maneuvers, and at very high power levels e ...

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5. H2.04: Cryogenic Fluid Management for In-Space Transportation

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

   Lead Center:GRCParticipating Center(s):JSC,MSFCThis subtopic solicits technologies related

to cryogenic propellant (such as hydrogen, oxygen, and methane) storage, transfer, and instrumentation to support NASA's exploration goals. This includes a wide range of applications, scales, and environments consistent with future NASA missions. Specifically, listed in order of NASA’s current priority: S ...

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6. H2: Space Transportation

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

Achieving space flight remains a challenging enterprise. It is an undertaking of great complexity, requiring numerous technological and engineering disciplines and a high level of organizational skill. Human Exploration requires advances in operations, testing, and propulsion for transport to the earth orbit, the moon, Mars, and beyond. NASA is interested in making space transportation systems mor ...

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7. H3.01: Environmental Monitoring for Spacecraft Cabins

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

Lead Center:JPLParticipating Center(s):JSC,KSC,GRCMeasurement of Inorganic Species in Water There is limited capability for water quality analysis onboard current spacecraft. Several hardware failures have occurred onboard ISS which demonstrate the need for measurement of inorganic contaminants. Monitoring capability is of interest for identification and quantification of inorganic species in pota ...

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8. H3.02: Bioregenerative Technologies for Life Support

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

Lead Center:KSCParticipating Center(s):JSC,ARCFood Production Technologies for Space Exploration NASA is interested in food production and related food safety technologies for ISS, transit missions, and eventual surface missions (fractional gravity). Of special interest is the use of photosynthetic organisms such as plants to produce food, and contribute to cabin O2 production and CO2 removal. Foo ...

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9. H3.03: Spacecraft Cabin Atmosphere Quality and Thermal Management

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

Lead Center:MSFCParticipating Center(s):GSFC,ARC,KSC,JPL,JSC,LaRC,GRCAdvances in spacecraft atmospheric quality management are sought to address cabin ventilation and flow delivery to air scrubbing equipment, suspended particulate matter removal and disposal, and volatile trace chemical contaminant removal. Methods to separate particulate matter from both the cabin atmosphere and from Environmenta ...

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10. H3: Life Support and Habitation Systems

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

Life support and habitation encompasses the process technologies and equipment necessary to provide and maintain a livable environment within the pressurized cabin of crewed spacecraft. Functional areas of interest to this solicitation include atmosphere revitalization, environmental monitoring and fire protection systems, crew accommodations, water recovery systems and thermal control. Technologi ...

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