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1. N152-096: Miniaturized, Fault Tolerant Decentralized Mission Processing Architecture for Next Generation Rotorcraft Avionics Environment

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Most avionics systems for rotorcraft currently rely on a federated mission computer/processing architecture which centralizes the aggregation of data for processing and subsequent Human Machine Interface (HMI)/subsystem transmission. Current Rotocraft Federated architecture habitually claims redundancy by having a secondary processing computer that is either fully capable, or has a reduced situati ...

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2. N152-097: Low Emissions Waste to Energy Disposal

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Island bases and other remote forward operating bases (FOB) have limited land and energy resources to dispose of municipal solid waste (MSW). Open air pits are discouraged and congressionally required to be nearly-eliminated. Due to the high volume of generated MSW and limited amount of real-estate, landfills and bio-digestive approaches are impractical. Incinerators currently being used require e ...

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3. N152-098: Modular Smart Micro/Nano-Grid Power Management System

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Microgrids are being considered at DoD installations to better manage energy usage, with the objective of providing better efficiency, reliability, and higher integration of renewable generation such as wind and solar. While the benefits of microgrids are broadly touted, implementation has been slow and complex. A turnkey modular micro/nano-grid controller design is sought, that would expedite tes ...

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4. N152-099: Cooled BusWork for Shipboard Distribution and Energy Storage

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Improvements in the manufacturing of power density, power quality, and efficiency in power and energy management and control are needed by the Navy to meet power and energy demands and allow for future mission growth. The Navy is seeking to foster the development of common, affordable electrical components and systems that could have broad application to ships. Electrochemical storage (battery) ce ...

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5. N152-100: Navy Air Cushion Vehicles (ACVs) Lift Fan Impeller Optimization

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Ship-to-Shore Connector (SSC), a replacement hovercraft for the existing fleet of Landing Craft, Air Cushion (LCAC) vehicles, utilizes a lift fan system to discharge air into the craft's skirt and bow thrusters to lift the hovercraft under normal operation. Each SSC utilizes two identical lift fans which are defined by an impeller and a volute assembly. Each lift fan impeller includes a cent ...

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6. N152-101: Amphibious Combat Vehicle Ramp Interface Modular Buoyant Kit (MBK) for Joint High Speed Vessel (JHSV) Stern Ramp

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The United States Marine Corps has advised the Navy that it needs to develop a light weight kit that can be readily attached to the JHSV's stern cargo ramp so that when the ramp is lowered directly into the water it would allow AAVs and ACVs to be launched and retrieved from the JHSV near the shore (splash-off). The Marine Corps needs a high speed shallow draft connector that can launch a dozen ...

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7. N152-102: Modular Boat Ramp to Launch and Retrieve Watercraft from Joint High Speed

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The JHSV's boat crane does not have the requisite man loading safety factor needed to allow the boat crew to remain on board during L&R. In order for small boats to debark from the JHSV, they must enter the water using the boat crane without the crew on board, and then the small boat must be positioned alongside the JHSV in a coordinated effort by the crane operator and members of the ship's c ...

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8. N152-103: Innovative Flexible Equipment Support Infrastructure

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

US Navy Destroyers need an equipment support infrastructure for several shipboard electronics and command spaces for a Common Processing System (CPS). The purpose of the flexible infrastructure (FI) is to provide equipment configuration flexibility and the ability to complete Command Center System modernization and upgrades at reduced cost (by 30 to 60 percent) (Ref 1) compared to fixed-system mo ...

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9. N152-104: Manufacturing Near-Net-Shape Conformal Electro-optic Sensor Window Blanks from Spinel

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Electro-optic sensor windows that conform to the local shape of an aircraft mold-line are desirable for future air platforms to allow for a large sensor angle of regard. Conformal shapes may have little to no symmetry depending upon their location. Spinel is an excellent material candidate as it is both durable and multi-spectral (ultraviolet through mid-wave infrared). Spinel is more erosion resi ...

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10. N152-105: Metrology of Visibly Opaque, Infrared-Transparent Aerodynamic Domes, Conformal Windows, and Optical Corrector Elements

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The function of electro-optical sensors is greatly impacted by the window’s properties. Survivability depends on material strength, hardness, and thermal properties. Targeting is limited by optical properties of the window material. Drag is reduced by aerodynamic shapes. The objective of this project is to create metrology methods and hardware to measure the optical figure and transmitted wavefr ...

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