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1. N123-152: Blast dosimeter for monitoring and documenting Blast exposure for Breacher and route clearance personnel

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: Develop a sensor that can be incorporated into the current protective vests to measure and record blast over pressure and acceleration data that Marines are subjected to during blast type events. DESCRIPTION: Develop a affordable, lightweight sensor that can record and document exposure to blast type events. The sensor should possess the following characteristics: Small, lightweight ...

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2. N123-153: Application of a Treatment to the Military Fabrics that is Affordable and Provides Durable Flame Resistant Properties

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: To develop an affordable and durable flame resistant (FR) treatment for the fabrics used in combat systems and other pieces of equipment. DESCRIPTION: Advances in technologies may enable the development of affordable and durable FR materials by treating the current fabric vice developing expensive flame resistant materials. Proposed material concepts should meet as many of the curr ...

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3. N123-154: Next Generation Passive Hearing Protection

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: Develop and demonstrate a passive hearing protection that affords true sense of presence for normal sound with directionality. DESCRIPTION: Hearing loss secondary to blast trauma, is now the most common combat injury in Iraq and Afghanistan. The use of passive hearing protection that protects against transient impact noise at the same time allowing ambient sound would enable Marines ...

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4. N123-155: Field Drying System using no power for clothing and boots

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: The objective of this program is to develop and demonstrate the feasibility of a system that will allow Marines to dry boots (and potentially other clothing items) overnight without the need for a power supply. DESCRIPTION: The system will use the selected technology to efficiently extract or evaporate moisture from the intended item. It must have at least 3 uses before needing to b ...

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## 5. N123-156: Post-IED Hull Inspection Tool

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: The objective is to provide post IED inspection tool(s) that can assess structural damage to combat vehicles by forward deployed Marines. DESCRIPTION: A capability gap exists in non-destructive testing of vehicle hulls in Forward Operating Bases (FOB) and combat outposts. Forward-deployed Marines are dependent on visual inspection of hulls to evaluate damage following IED events. T ...

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## 6. N123-157: Efficient, Cost-Effective, Low-Emissions Method to Cutting Nuclear Submarine and Aircraft Carrier Hulls

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: The objective is to develop an innovative metal cutting system for submarine and aircraft carrier hull disposal that achieves competing requirements for environmental compliance; safety and health requirements; scheduling, manpower and time constraints; while achieving increased cost efficiencies to translate into life cycle cost reductions. DESCRIPTION: The primary metal cutting tec ...

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## 7. N123-158: Innovative Approach to Low Cost Shock Testing Fixture for Medium Weight, Shock Isolated Equipment

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Design, develop, and validate a low frequency deck simulating fixture for the Medium Weight Shock Machine that is a low cost alternative to Floating Shock Platform testing of medium weight deck mounted equipment. DESCRIPTION: Shock testing and qualification is essential to the certification process of critical equipment installed in submarines. Shock qualification testing must adequ ...

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## 8. N123-159: NetOps as a Service- Mission Focused Analytics

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an operational prototype of a NetOps Analytics system that enables both Cyber and Maritime domain operators to proactively assess the impact of NetOps incidents in mission context of Mission. DESCRIPTION: In today"s information age, access to data (both unstructured and structured), ubiquitous secure information exchange and situational awareness are critical elements to the ...

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## 9. N123-160: Querying and Processing Encrypted Databases without Decrypting

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an efficient means of cryptographically protecting databases while also processing without decryption. DESCRIPTION: Cloud-computing is a cost-effective solution that outsources storage and computational instances. As the Navy transitions into a cloud environment with consolidated data centers, three confidentiality and integrity use cases are of interest: (1) data stored, (2) ...

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## 10. N123-161: DYNAMIC TUNER FOR NARROW-BAND VLF SUBMARINE COMMUNICATION TRANSMITTING SYSTEM

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To provide a means for high power Very Low Frequency (VLF) transmitting systems to broadcast more efficiently and effectively in spite of the very narrow band antennas. They can do this by dynamically tuning the antenna(s) in sync with the modulated signal frequency shifts. DESCRIPTION: Communication to submarines while at speed and depth utilizes high power VLF RF signals because t ...

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