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1. SOCOM13-001: Nano-scale Coatings for the Protection of Electronics and Sensitive Equipment in Marine Environments

   Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

   OBJECTIVE: Research and development of nano-scale coatings for protection of electronics and other sensitive items from seawater and salt fog. DESCRIPTION: Marine (seawater) environments are harsh on equipment, particularly electronics with seawater"s high conductivity leading to short circuits and increased corrosion rates. Typically, electronics and other items that are susceptible to seaw ...

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2. SOCOM13-002: Over the Horizon Underwater Communications

   Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

   OBJECTIVE: Communicate from a minimum depth of three (3) meters underwater to overhead SATCOM receiver. DESCRIPTION: Most maritime Tagging, Tracking, and Locating devices operate using acoustic sensors or need to break the surface of the water to communicate. Acoustic devices produce a detectable acoustic signature and are limited on the range between the tracking device and the receiver. ...

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3. SOCOM13-003: Advanced Medical Microelectronics for Use in Remote Austere Environments

   Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

   OBJECTIVE: To combine the capabilities of several medical electronics devices into a single device while maintaining portability and ease of use. DESCRIPTION: Current Special Operations Forces (SOF) advanced medical diagnostic equipment is currently accomplished using multiple devices. The focus of the topic is to develop a small ruggedized system capable of consolidating those capabilities ...

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4. SOCOM13-004: Next Generation Portable Power Amplifier

   Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

   OBJECTIVE: Develop a next generation light-weight, high-efficiency, man-portable power amplifier for communications. DESCRIPTION: Special Operations Forces (SOF) currently must carry multiple power amplifiers and associated batteries for all required communications equipment to conduct their missions. These portable power amplifiers and batteries add weight, heat, and bulk to an already burd ...

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5. SOCOM13-005: Family of Sub-Sonic Ammunition

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a family of sub-sonic ammunition that has extremely tight velocity standard deviations, is clean burning, will function in gas operated weapons and will be cost effective. Successful completion of this SBIR technology pursuit will improve the survivability of Special Operations Forces during covert operations. DESCRIPTION: Sub-Sonic ammunition has been in use since WWII ...

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6. SOCOM13-006: .50 Caliber Light Weight Precision Ammunition

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Design, develop, and demonstrate an innovative .50 caliber round that is lighter than the current .50 caliber ammunition that users of MK-15 and M107 weapons must carry, that improves the accuracy over the current brass cased Department of Defense Identification Code A606 round using the MK-211 projectile, and to develop a balistically matched non-dud producing training round to allow ...

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7. SOCOM13-007: Portable High Performance Computing and Storage

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a light-weight, low-power man-portable, integrated, non-volatile memory storage and computation device. DESCRIPTION: Traditional and Special Operations Forces (SOF) multi-intelligence collection and analysis activities require the storage and processing of large quantities of data, often in the Terabyte (TB) range. Traditional means of storing and processing the data involv ...

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8. SOCOM14-001: Power Supply for the Tactical Assault Light Operator Suit (TALOS)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Investigate and identify a suitable safe, lightweight power supply for the exoskeleton component of the TALOS ensemble. DESCRIPTION: The TALOS ensemble is a new initiative in USSOCOM that is intended to provide solutions for the enhanced mobility/protection/situational awareness capabilities to augment the direct assaulter. As such, the power supply for the TALOS ensemble wi ...

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9. SOCOM14-002: Advanced Transparent Armor Materials and Manufacturing Methods

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this feasibility study is to develop innovative transparent armor for Ground Mobility Vehicles (GMV) that is lighter than existing transparent armor and that is affordable. Develop innovative transparent armor that is at least 25% lighter at a given protection level and in the current space claim than current transparent armor in GMV. The cost of the innovative armor sh ...

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10. SOCOM14-003: Advanced Opaque Armor Materials and Manufacturing Methods

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a low cost, light weight armor package that has reduced visual signature while offering high protection against threats for Non Standard Commercial Vehicles (NSCV). DESCRIPTION: Modified commercial vehicles are a staple of Special Operations activities. One reason a commercial vehicle is used is to blend in with local vehicles. They serve a purpose of enabling advance mobi ...

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