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**1.** 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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**2.** 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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## 3. 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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## 4. SOCOM14-004: Hydrogen Generation from Water and Full or Partial Replacement of Petroleum Fuels in Diesel Internal Combustion Engines

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

OBJECTIVE: Develop a system to generate hydrogen from water on site for use in combatant craft diesel engines to decrease dependency of Naval Special Warfare on petroleum fuels and to increase craft fuel economy and range. DESCRIPTION: Improving fuel economy, reducing greenhouse gas emissions and minimizing fuel costs associated with Military vehicles is a necessity given dwindling budgets an ...

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## 5. SOCOM14-005: High Performance Marine Diesel Closed Coolant System for High Speed Combatant Craft

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

OBJECTIVE: Develop a closed coolant system for the SOC-R to eliminate use of off-board, raw water to cool the engines. DESCRIPTION: SOC-R engine cooling is provided by raw water from the engine pumps and from the Hamilton jets. This raw water sometimes contains debris that clogs the engine strainers causing the engines to overheat. This is especially problematic during beaching operations wh ...

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## 6. SOCOM14-006: Low Acoustic Signature Manned Intelligence, Surveillance and Reconnaissance

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

OBJECTIVE: Develop active and passive noise suppression technologies to reduce the acoustical footprint of the King Air - 350ER (B - 300ER) manned Intelligence, Surveillance and Reconnaissance (ISR) platform. DESCRIPTION: Manned ISR platform operators need to strike a balance between operational factors. They must fly close enough to collect the mission

data while maintaining sufficient stan ...

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**7.** 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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**8.** 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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**9.** 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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**10.** 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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