



PROGRAM EXECUTIVE OFFICE SOLDIER

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Extended Cold Weather Clothing and Equipment

Advanced Planning Brief for Industry

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Generation III Extended Cold Weather Clothing System (ECWCS)



System Description

- A multi-layered, versatile insulating system that allows the Soldier to adapt to varying mission requirements and environmental conditions
- Designed to be broken down into several possible configurations
- 12 different components
 - Lightweight Cold Weather Undershirts/Drawers
 - Mid-weight Cold Weather Shirt/Drawers
 - Fleece Cold Weather Jacket
 - Wind Cold Weather Jacket
 - Soft Shell Cold Weather Jacket/Trousers
 - Extreme Cold/Wet Weather Jacket/Trousers
 - Extreme Cold Weather Parka/Trousers





Current Status



- Contract was awarded to ADS –
December 2006
 - 5 year IDIQ
 - 10,000 per year min/240,000 per year max



Milestones



- First Unit Equipped was 1FY08
- Fielding is in progress
- Transitioning to RFI
- DSCP has posted an RFI for sustainment contracts.



Future



System Improvements

- Incorporate Soldier Feedback
- Implement Material Improvements
- Improve durability
- Reduce weight and bulk
- Anti microbial capability
- Improve moisture management
- FR/No melt capability



Individual Cold Weather Stove



- Provide individual Soldier the capability of heating water for rehydrating rations and heat source to warm beverages in Extended Cold Weather environments with a self-pressurizing and logistic fuel based system.





Current Status



- Redesigned system based on Soldier's feedback and Lab Test 1 results
- Follow-on Technical Lab Testing 2 was conducted (Jun 07)
- Soldier Test 1 initiated 1FY08
- Completed Soldier Test 1 (Feb 06) and Technical Lab Testing 1 (Mar 06)
- Soldier Test 2 results will be completed 3FY08



Future



- Refine fuel self-pressurizing technology
- Improve ICWS kit to increase stove efficiency and reduce boil time



Mountaineering Equipment



- Improve Soldier mobility in a mountainous environment by decreasing weight, increasing mobility, increasing usability, performance, safety and strength





Individual Kit Concepts



- High Angle Mountaineering (HAM) Kit – To move basic Soldiers through and assist in the establishment of rope installations in OTL 1 (Platoon)
- Assault Climber Kit (ACT) – For Assault Climber Teams to establish rope installations for follow-on Soldiers using Kit 1 (3 Soldiers)
- Snow and Ice Mobility (SIM) – To enhance Kits 1 & 2 in OTL 2 & 3 in a snow, ice and high altitude environment



Current Status



- Testing Complete
- Technical Data Package Development
- Joint Solicitation with USMC/SOF



Modular Sleeping Bag



- A bag-within-a-bag concept consisting of a Universal Camouflage Pattern, water resistant, breathable bivy cover, lightweight patrol and intermediate cold weather sleeping bags, and two compression sacks to store and carry the system
- Combined System provides extreme cold weather protection in temperatures ranging above -50°F
- Individually, the lightweight patrol bag provides protection between 35°F and 50°F; the intermediate bag between -5°F and 35°F
- The bivy cover can be used with any configuration





Current Status



- GEN II (RFI)
- System redesigns integrated
- Production prove-out of modified hood in progress
- Specification upgrade to be transitioned to DSCP



Field Tarp



- Field Tarp is an alternative to Poncho Tarp is lightweight, waterproof cover with snaps for joining and grommets/cords for tie-down
- Ground cover, rain protection
- Doubles size of poncho





Current Status



- User test at two locations complete (Fort Lewis, Fort Carson)
- Conducting thermal and physical testing