



PROGRAM EXECUTIVE OFFICE SOLDIER

THE BEST
FOR THE BEST

Cold Weather Clothing

Advanced Planning Brief for Industry

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Clothing and Individual Equipment



Outline



- Current
- Future
- Goals
- Strategy
- POCs
- Questions



Generation III Extended Cold Weather Clothing System (ECWCS)



System Description:

- A multi-component, versatile clothing system that allows the Soldier to adapt to varying mission requirements and environmental conditions
- Designed to be used in several possible layered configurations
- 12 different components issued as follows:
 - 2 x Lightweight Cold Weather Undershirts/Drawers
 - 1 x Mid-weight Cold Weather Shirt/Drawers
 - 1 x Fleece Cold Weather Jacket
 - 1 x Wind Cold Weather Jacket
 - 1 x Soft Shell Cold Weather Jacket/Trousers
 - 1 x Extreme Cold/Wet Weather Jacket/Trousers
 - 1 x Extreme Cold Weather Parka/Trousers

Objective: Improve Soldier acceptance in form, fit, function in field and garrison environment, and improve compatibility with body armor

BOI: One per deploying Soldier

NSN: Available by component



ECWCS FUTURE



- Provide Fire Resistant (FR) protection
- Reduce weight
- Increase Soldier's flexibility
- Increase Soldier's capability



ECWCS GEN IV



Light Weight base layers

- Add No melt no drip performance
- Add anti-microbial performance



Mid Weight base layers

- Reduction in moisture retention
- Greater wicking action
- Add No melt no drip performance



ECWCS GEN IV



Fleece Jacket

- No melt/ drip performance
- Increase wind resistance while maintaining moisture transmission



Wind Jacket

- Flame resistance
- Reduce dynamic absorption
- Increase moisture vapor transmission



ECWCS GEN IV



Soft Shell

- Provide FR protection
- Increase Moisture vapor transmission - objective is meet or exceed the current wind jacket performance



Hard Shell

- Provide FR protection
- Improve durability, i.e., tear resistance
- Reduce noise signature





ECWCS GEN IV



Extreme Cold Parka and Pants

- Provide FR capability
- Reduce bulk/maintaining the same level of insulation
- Improve durability



ECWCS GEN IV



Goals

- Implement material improvements
 - Introduce non-melting/fire resistant characteristics
 - Improve durability
 - No added weight and reduce bulk
 - Improve anti-microbial capability
 - Improve moisture management
 - Potentially reduce number of items
- Combine capabilities
- Capitalize on Industry knowledge



ECWCS GEN IV

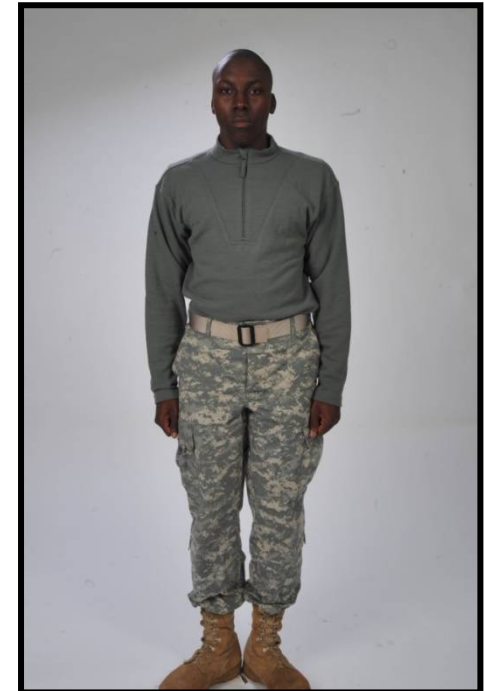


Strategy

- Communicate to Industry goals and expectations
- Use established FR and environmental standards as baseline
- Focus on base layers first (25 burns last week)
- Close interaction with User representative
- No waiting for perfect solution...move forward and adjust as capabilities improve
- Field components (50-100 Soldiers)... no delay for complete system
- Integrate with existing systems
- Examine every option (multiple material types)
- Build prototypes...fast! (Fall 2009)



Improved Army Sweater



- Inherent FR capability
- Reduce bulk/ provides superior insulation
- Improved durability; comfort (next to skin quality)
- Lightweight; improved moisture wicking
- 95% Soldier acceptance during LUE



Points of Contact



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