



PROGRAM EXECUTIVE OFFICE SOLDIER

THE BEST  
FOR THE BEST

# Extended Cold Weather Clothing System

Advanced Planning Brief for Industry

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# Outline



- Current
- Future
- Goals
- 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



- Fire Resistant (FR) protection
- Capitalize on current technologies
- Combine layers where possible
- Must be integrated



# 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
  - Reduce weight and bulk
  - Improve anti-microbial capability
  - Improve moisture management
  - Potentially reduce number of items
- Combine capabilities
- Capitalize on Industry knowledge



# Points of Contact



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