



# MARINE CORPS SYSTEMS COMMAND

Combat Equipment & Support Systems (CESS)  
Program Manager, Infantry Combat Equipment



## USMC Mountain/Cold Weather Clothing



Combat, Cold Weather, and Dress Clothing Team  
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## USMC Mountain/Cold Weather Clothing

### Description

- A multi-layered clothing system with improved
  - moisture management
  - flexibility to adapt to changing environment
  - faster drying time
  - lighter weight
  - reduced pack volume

### Acquisition Strategy

- Procure Flame Resistant (FR) versions of the silk weight and mid weight
- Request for Information (RFI) for new FR fabrics/materials
- Funding FY10 CIF (Consolidated Issue Facility) Items
  - 460,000 silk weight and 230,000 FR mid weight

### Fielding

- CIF Fielding
  - Hard face Fleece Cap (1 per) (move in future)
  - FR Silk weight underwear (2 per)
  - FR mid weight fleece (1 per)
- STAP (Special Training Allowance Pool)
  - Windpro Fleece (1 per)
  - LW Exposure Suit (1 per)
  - Extreme Cold Weather Suit (1 per)
  - Snow Overwhite (1 per)
  - Extreme Cold Weather Mitten (shell 1 per, liner 2 per)
  - Light Duty Glove Insert (2 per)

### Sustainment Concept

- Expect replacements for base layer, midweight layer and snow overwhites will be forecasted and procured through DSCP (Defense Supply Center Philadelphia)
- CIF - Complete AO 230,000 sets
- STAP - Complete AO 35,000 sets. Deployments to AFG may increase STAP AO. Procure FY10 shelf stock in FY09 (dependent upon funding)
- PM ICE POM for Replacement/ Sustainment quantities.



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## USMC Mountain/Cold Weather Clothing



(FR) Silkweight Underwear



(FR) Mid-Weight Underwear



Cap, Hardface, MicroFleece, CW



(ECW) Parka, Trouser, & Bootie



Removable Mitten Liner, Mitten Shell, L/D Glove insert (FR)



Lightweight Exposure Suit



Jacket, Windpro Fleece, CW



Snow Camouflage Parka, Trouser and Pack Cover (not shown)



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Characteristics	Silkweight Underwear	Mid-Weight Fleece Underwear	Lightweight Exposure Suit (Jacket / Trouser)	Jacket, Windpro Fleece, CW
<b>Flame Resistant</b>	✓	✓		
<b>Thermal Protection</b>	✓	✓		✓
<b>Water Protection</b>	✓ (Moisture Management)	✓ (Moisture Management)	✓ (Waterproof)	
<b>AAO</b>	460,000	230,000	35,000	35,000
<b>Issue Location</b>	IIF	IIF	UIF	UIF



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Characteristics	Extreme Cold Weather (ECW) Parka, Trouser & Booties	Snow Camouflage Parka, Trouser & Pack Cover (Snow O/W)	Cap, Hardface, Microfleece, CW	Extreme Cold Weather (ECW) Mitten System (Liner & Shell)	Extreme Cold Weather (ECW) Mitten System (Insert)
					
Flame Resistant					✓
Thermal Protection	✓		✓	✓	✓
Water Protection	✓ (Water Resistant)	✓ (Water Resistant)	✓ (Water Resistant)	✓ (Water Proof)	
Worn as Over Garment	✓	✓			
AAO	35,000	35,000	230,000	35,000	70,000
Issue Location	UIF	UIF	IIF	UIF	UIF



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## USMC Mountain/Cold Weather Clothing *Current Status*

- NISH FY 10 contracts: FR silk weight, FR mid weight and windproof jacket
- Marine Corps will no longer procure polyester base layers due to FR concerns
- Current fielding of outer layers through GSA FY09 contracts: Extreme Cold Weather Parka, Trouser, Booties; Mitten and Liner, Lightweight Exposure Suit; and Light Duty Glove insert
- Fielding for Snow Overwhite Parka, Trouser, and Pack Cover through an option on an FY06 IDIQ contract – recently completed
- Potential GSA contract will complete initial AO for all STAP items



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## Expected FY10 Procurements

- Lightweight Exposure Jacket/Trouser
- Extreme Cold Weather Parka & Trousers, Booties
- Light Duty Glove Insert (issued 2 per)
- Extreme Cold Weather
  - Mitten Shell (1 per)
  - Removable Liner (2 per)



## USMC Mountain/Cold Weather Clothing *Future*

- Continue to improve protection, durability, comfort and design of all layers. Field evaluations of test items at Mountain Warfare Training Center (MWTC) critical





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## Product Improvement: USMC Cold Weather Liner For APECS Parka

- RFI released on 23 March 2010
- Liner Requirements:
  - Provide temperate to cold weather insulation
  - Be lightweight and low bulk/volume
  - Provide a minimum of 0.5 clo
  - Utilize either a single material or a composite of materials
  - Have a front closure method
  - Be compatible for wear with: the APECS parka, the MCCUU blouse and potentially the Inclement Weather Combat Shirt
  - Prototype liners should reflect a means of attachment into the APECS parka
  - Modification of the Windpro Fleece Jacket into a liner design will also be considered
- Market survey for available commercial or modified commercial product designed for wear under the APECS parka





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## Product Improvement Timeline: APECS Liner

- RFI initial samples from suppliers due 17 May 10
- Government to complete evaluation/selection by 30 Sep 10



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## Product Improvement: USMC APECS Parka with integrated Cold Weather Liner

- RFI released on 8 April 2010
- Requirements:
  - **APECS Parka**
    - Must meet the design and material performance requirements in MIL-DTL-32157
    - Demonstrate a means of a secure attachment and easy removal of a liner
  - **Liner**
    - Provide temperate to cold weather insulation
    - Be lightweight and low bulk/volume
    - Provide a minimum of 0.5 clo
    - Utilize either a single material or a composite of materials
    - Have a front closure method
    - Have a method of attachment into the APECS parka
    - Compatible for wear with the APECS parka, the MCCUU blouse & potentially the Inclement Weather Combat Shirt
    - Modification of the Windpro Fleece Jacket into a liner design will be considered
- Market survey for information & prototypes that meet the requirements of MIL-DTL-32157 with an integrated / removable liner



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## Product Improvement Timeline:

### APECS Parka with Integrated Cold Weather Liner

- RFI submissions due 15 June 10
- Government expects to complete evaluation/selection by 30 Oct 10



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## Glove Product Improvement

- Market survey was conducted for a glove with improved cold/wet weather protection to possibly replace USMC's current 5-finger CW glove, NSN 8415-01-457-1557.
- RFI completed Sept 2009
- Requirements:
  - Cold/wet weather protection and insulation
  - Waterproof yet breathable with water repellent outer shell
  - Fast drying
  - Removable water repellent insulated liner (must attach to the inside of shell)
  - Good durability
  - Good dexterity & grip
  - Will not freeze
  - Clo value – 1.2 minimum
  - Will be used with the CW Glove or as a stand alone item.



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## Glove Product Improvement Timeline

- LUE will be conducted during FY 2011



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## USMC Mountain/Cold Weather Clothing *Milestones*

- Sustain Mountain Cold Weather items for future requirements.





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## PM ICE Website

<http://www.marcorsyscom.usmc.mil/sites/pmice/>



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PROGRAM MANAGER INFANTRY COMBAT EQUIPMENT FIELDS, SUSTAINS, AND ASSESSES CLOTHING AND EQUIPMENT WHILE ANTICIPATING THE NEEDS OF AND MAINTAINING CONTACT WITH THE OPERATING FORCES IN ORDER TO ENHANCE THE PERFORMANCE, CAPABILITY, SURVIVABILITY, MOBILITY, AND SUSTAINABILITY OF MARINES.

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