



MARINE CORPS SYSTEMS COMMAND

EQUIPPING THE WARFIGHTER TO WIN



Flame Resistant Organizational Gear (FROG)



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Current OPS

- **OEF Conditions**

- Terrain (austere environment)
- Lack of laundering/limited support/services infrastructure on FOBs
- Marines often lose footing resulting in more tears; constant wetness/sweat result from patrolling through poppy fields and wading canals contribute to fabric breakdown.

- **IED Threat**

- Improvised Explosive Devices are still prevalent and very much a threat in OEF.
- Protection for the warfighter is the Service's number one priority.



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Flame Resistant Organizational Gear (FROG)

Description

- FROG provides increased protection against flash/flame exposure.
- FROG I – Base Layers: balaclava, gloves, long sleeve t-shirt.
- FROG II – Outer Layers: FR combat ensemble and Inclement Weather Combat Shirt (IWCS).



1 ea. light weight
1 ea. mid weight



2 per



3 per



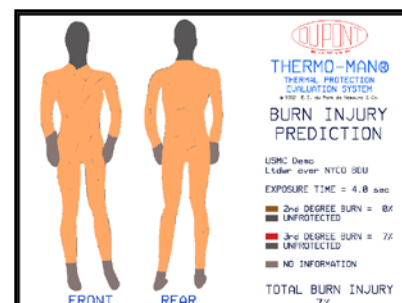
4 per



1 per

Future Acquisition Strategy

- R&D on fabrics/designs.
- Lab tests, including Pyroman testing
- Items selected will offer optimal level of protection, comfort and **durability**.



Fielding

- OCO Annual Requirement – 70,000 sets/year
- Baseline Requirement – 15,000 sets/year
 - Six MEU's at 2,500 per MEU

Sustainment Concept

- PM ICE will POM for and provide sustainment for FROG until transferred to DLA Troop Support. We will continue to improve our present system from user feedback, lessons learned and technological advancements.



FROG Short Term

- Quantities depend on forces in theater which controls demand
- Improved FR protection, durability, comfort and design
- RFI fabric results (prioritized efforts)
- Combat shirt and trouser (Improved FR, durability and permethrin)
- Gloves (water repellant, quick drying, improved tactility)



FROG Long Term

- FR material with same/similar attributes as non-FR materials (cost, comfort, and durability) incorporated into all uniforms
- Improved durability in all FR components
- Potential for FR qualities in several components for colder climates
- Weather (moisture) protection in FR outer layers



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FROG Future R&D Efforts

Current SBIR effort - to develop a nonwoven FROG fabric

- Better FR performance
- Better comfort (i.e. air permeability, MVTR)
- Better durability (i.e. wash, abrasion)



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PM ICE Website

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



MARINE CORPS SYSTEMS COMMAND

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



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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