



## **MARINE CORPS SYSTEMS COMMAND**

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# **JOINT ADVANCED PLANNING BRIEF FOR INDUSTRY PROGRAM MANAGER**

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## MARCORSYSCOM'S MISSION

Equip our Marines with the most capable ground and information technology weapon systems in order to maximize their expeditionary readiness and combat effectiveness in all domains.







# OVERARCHING NEEDS

- Lighten the Load
- Signature Management
- Flame Resistance
- Steady State of Supply
- Certification Options
- Value

Reduce the burden on the individual Marine and the enterprise, while providing improved capabilities to Marines.

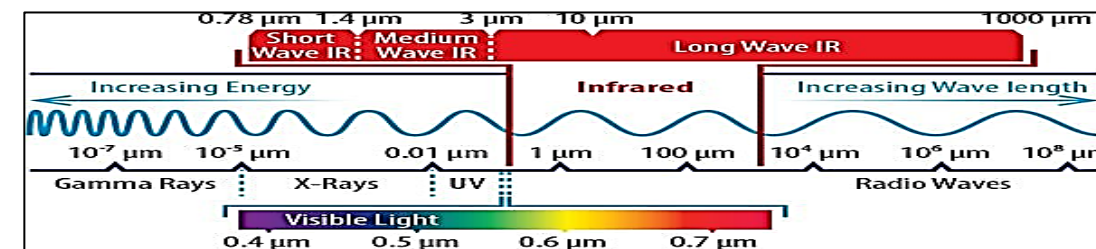




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# SIGNATURE MANAGEMENT SOLUTIONS

- Capability gap in MWIR and LWIR Signature Mitigation for dismounted Marines
- Embarking on “campaign of learning” on industry capabilities. Dismounted signature management receiving critical attention from joint community. Requirements in development.
- Sought out solution capabilities include:
  - Various applications (poncho, uniform, shelter/fighting hole hide)
  - Cost effective and durable
  - Does not require special storage or logistical considerations
  - Launderable and ease of care – low maintenance
  - Easy to learn and implement- Tactics, Techniques, Procedures (TTPS) & training
  - Maintains MARPAT Woodland, Arctic, and Desert visual camouflage and current Near InfraRed (NIR) and SWIR apparent reflectivity values
- Partnering with all Services on Signature Management...Common solution = economies of scale.
  - Cross Service-Warfighter Equipment Board (CS-WEB), Multi-Service Signature Management (MSSM) Charter, Signature Management Community of Practice, following Army’s SEP work, etc.



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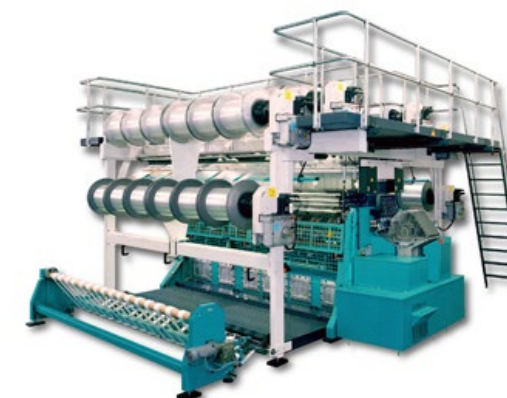




# MANUFACTURING

## Automation and additive manufacturing:

- Reduce the burden on manual cut and sew labor.
- Current Small Business Innovation Research (SBIR) effort moving into Phase II on seamless knitting of Mesh Baselayer.
- Pending SBIR results - interested in transitioning or developing items to seamless knitting/knit to wear/whole garment knitting/3D knitting.
  - Interest in both Warp and Weft Seamless knitting
  - Interest in identifying currently procured items that industry has the capability to manufacture seamlessly

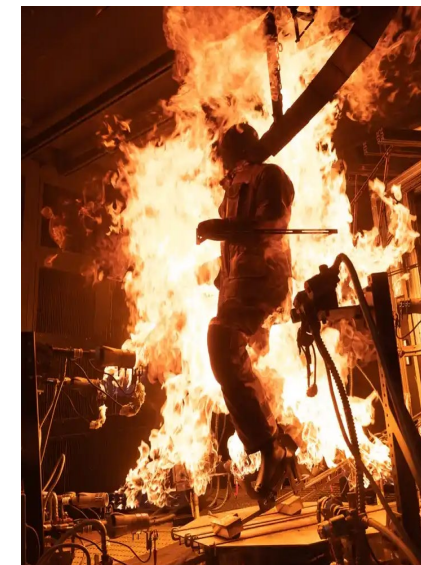
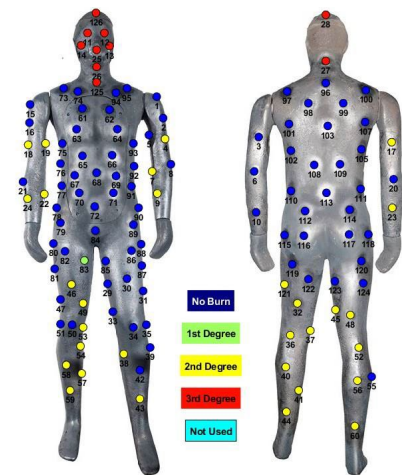




# NEXGEN MCCUU UPDATE

C&E focus: Next Generation (NexGen) Marine Corps Combat Utility Uniform (MCCUU)

- Intent to add Fire Resistant (FR) protection and Short-Wave InfraRed (SWIR) mitigation.
- **FY24: Evaluated capabilities of fabrics that meet or exceeded the current MCCUU**
  - LUE with Marines with 5 industry fabrics ranging from No-Melt, No-Drip (NMND) to self-extinguishing.
  - Laboratory test to include Environmental, Laundering and VIS, NIR, and SWIR Apparent Reflectivity Validation for Woodland MARPAT.
- **FY25: Results from FY24 evaluations feed into FY25 plans. Plan to evaluate one FR & SWIR industry fabric that meets the salient characteristics set by C&E with a larger population across two infantry battalions (~3,400 uniforms) for effectiveness and user acceptability:**
  - Pre-solicitation release mid-late Dec. RFP release mid-late Jan. 60 days.
  - If effective and affordable – update MCCUU Specification with a Supplier Request Package (SRP) submission to DLA in FY27 for NexGen MCCUU to issue to Marines in the seabag.
  - If effective but not affordable or appearance is not acceptable, learnings will translate to a Close Combat Uniform (CCU) requirement and future program.







# CERTIFICATION PROGRAM



## PROGRAM DESCRIPTION

- The Certification Program maintains the USMC patterns and specifications, certifies optional uniform and equipment manufacturers, and conducts periodic quality control inspections.
- The order for optional clothing and uniform accessory quality assurance is provided in the current edition of the MCO P10120.28, Individual Clothing Regulations.
- Certification duration is three to five years depending on the product category.
- An optional certified item meets or exceeds the basic specification requirement.

- Vendors with products that wish to participate in the Certification Program must submit samples to Clothing & Equipment (C&E) Team for inspection and approval.
- Documentation required for submission includes a completed Manufacturer's Application Certification (MAC) form, a Finished Measurement Confirmation form, and a Test Requirements Results form.
- Items that receive approval are issued a certification number unique to the item, manufacturer, subcontractor (if applicable), and geographic manufacturing location.
- Each manufacturing site must have its own approved certification number for each item being manufactured at its location.
- New certification numbers are required for any product change, change in subcontractor, or change in manufacturing location.
- Items manufactured for the USMC Certification Program must conform to specifications and requirements throughout the life of the certification.



**Over 270 items  
certified from 57  
certified vendors**





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# NEXGEN BODY ARMOR UPDATE

## Individual Armor (IA) focus: NexGen Plates and Helmet

- FY24: Intent to find the lightest/thinnest **hard armor plate**.
  - MILTECH study to evaluate two vendors; ongoing.
    - Requirements: Threat level, Shot Pattern, Drop Test, Overall Design/Shape (compatibility with Soft Armor Inserts), and Weight.



- FY24: Intent to find a helmet system to better integrate with all MC gear (Hearing Enhancement Device (HED) and Squad Binocular Night Vision Goggle (SBNVG)); **Integrated Helmet System (IHS)**
  - Multiple LUEs with Marines (East and West Coast) with 2 helmet manufacturers via Prototype Other Transactional Authority.
  - Select one vendor and award a FAR-based production contract.
  - FY27 Fielding to MEFs.



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# EQUIPPING OUR



# MARINES