



# DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY



**Hard/Soft Body Armor**

**Mark Twardziak**

November 16, 2017



# Individual Equipment Team - Ballistic Items

Mark Twardziak, Individual Equipment IST Chief

## Hard Body Armor Items

- Enhanced Small Arms Protective Inserts (ESAPI)
- Enhanced Side Ballistic Inserts (ESBI)

## Soft Body Armor Items

- Improved Outer Tactical Vest (IOTV) Generation IV
- Plate Carrier, Generation II
- IOTV Generation III Components & Conversion Kits
- Protective Undergarment (PUG)
- Family of Concealable Body Armor (FoCBA)



# Unique Procurement Requirements Ballistic Items

## Personal Protective Equipment (PPE)

- ✓ 2017 National Defense Authorization Act (NDAA), Section 814 prohibits the use of reverse auction or low price technical acceptable source selection criteria

## Critical Safety Item (CSI) Performance Specification

- ✓ **Engineering Support Activity (ESA) - Specifications & Quality Assurance**
  - Army (PM SPE) All Hard Armor and IOTV, FoCBA
  - Marines (PdM ICE) Plate Carrier, PUG
- ✓ **Withholding of Material Review Board (MRB)**
- ✓ **Technical Data Package (TDP) “contractor’s design”**
- ✓ **Subcontractor and Supplier Management Plan**
- ✓ **Production Process Package (PPP)**
- ✓ **Production Readiness Review (PRR) Audit**
- ✓ **First Article Testing & Lot Acceptance Testing - Aberdeen Test Center**



# Hard Armor

## Fiscal Year 2018 Procurement Plans

- Solicitation SPE1C1-17-R-0114 for ESBI
- ✓ Issued 9/15/2017; Closes 11/27/2017
- ✓ Indefinite Quantity, 4 Year Contract Pending
- ✓ Single Curve Side Plate
- ✓ Three (3) Sizes; Small, Medium & Large





# Hard Armor

## Fiscal Year 2018 Procurement Plans

- ESAPI Solicitation Pending
- ✓ Market Research Issued 10/13/2017
- ✓ Potential for Split Award; Small Business Set-Aside
- ✓ Solicitation Planned for December 2017
- ✓ Indefinite Quantity, 4 Year Contract Pending
- ✓ Multi-Curved Torso Plate
- ✓ Five (5) Sizes; XS, S, M, L, XL
- ✓ Total Quantities
  - Minimum 45,500 each
  - Annual Estimated 182,000 each
  - Annual Order Limitation 273,000 each





# Soft Armor

## Fiscal Year 2018 Procurement Plans

- Solicitation SPE1C1-17-R-0102 for IOTV Gen III components & Conversion Kits
- ✓ Closed 8/29/2017
- ✓ Indefinite Quantity, 2 Year Contract Pending





# Soft Armor

## Fiscal Year 2018 Procurement Plans

- Protective Undergarment (PUG)
- ✓ Market Survey Issued 10/5/2017
- ✓ Annual Estimated Quantity 82,490 each
- ✓ Solicitation Issuance Planned December
- ✓ Indefinite Quantity, 4 Year Contract (Initial Ordering Period 1 year, plus 3 Option Years)
- ✓ Total Small Business Set-Aside
- ✓ Best Value, Trade-Off
  - PDM/Ballistic/Weight Data (Pass/Fail)
  - Past Performance (Adjectival Rating)





# Soft Armor

## Fiscal Year 2018 Procurement Plans

- Family of Concealable Body Armor (FoCBA)
- ✓ Market Research to be Issued
- ✓ Solicitation Planned for January/February 2018
- ✓ Indefinite Quantity, 4 Year Contract Pending

**Family of Concealable Body Armor (FoCBA)**



TYPE 1 BALLISTIC-LEVEL IIIA/STAR LEVEL 1  
(IN DEVELOPMENT)

TYPE 2 STAB-ONLY LEVEL  
(IN DEVELOPMENT)



# Procurement Team

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# DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY



## Helmets Raymond Jacquette

11/16/2017



# Safety Team

- Ground Troop (Ballistic) Helmets & Components, Flyers' Helmets & Components, Anti-G & Anti-Exposure Garments, and AirSave & Flexible Body Armor Vests:
  - Manage approx. 830 items
  - Sales
    - FY '17 \$74.8M
    - FY '14 -'16 Avg. \$64.0M



# Upcoming Opportunities

- ACVC Helmet (early CY 2018)
- ACH Gen II
  - Short Term – initial orders off Army contract
  - Long Term (follow on) – DLA Sustainment contract (potentially late Spring / Summer 2018)
- LWMCH and/or ECH (TBD)
- Flexible Body Armor Shells (TBD)



# Request for Assistance

- ACVC Helmet Liner
  - Future Consideration
  - Comm Gear not included
  - Alternate materials / design / commercial alternate?



# Points of Contact

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**Product Manager  
Soldier Protective Equipment**

# **The Soldier**

*Our Strength and Purpose*

## **Product Manager Soldier Protective System Joint Advanced Planning Brief for Industry**

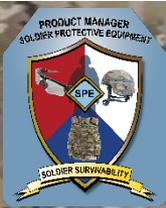
**15 – 16 November 2017**

LTC Ginger L. Whitehead  
Product Manager  
Soldier Protective Equipment

Cary V. Ferguson  
Deputy Product Manager  
Soldier Protective Equipment



# Mission



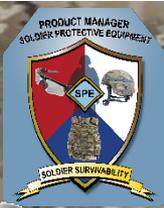
**To increase the Warfighter's lethality and mobility by optimizing Soldier protection and effectively serving as the life cycle manager for all personal protective equipment.**





# SPE Areas of Responsibility

(As of 04 Oct 2017)



Advanced Combat Helmet (ACH)



Advanced Combat Helmet GEN II (ACH GEN II)



Enhanced Combat Helmet (ECH)



Advanced Combat Vehicle Crewman Helmet (ACVCH)



Improved Outer Tactical Vest (IOTV)



Soldier Protection System (SPS)



Soldier Plate Carrier System (SPCS)



Legacy Concealable Body Armor (CBA)



Advanced Bomb Suit (ABS)

Generation II ABS (GEN II ABS)



Integrated Head Protection System (IHPS)



Military Combat Eye Protection (MCEP)



Transition Combat Eye Protection (TCEP)



Enhanced Small Arms Protective Insert (ESAPI) - VTP



X Small Arms Protective Insert (XSAPI) - VTP



Enhanced Side Ballistic Insert (ESBI) - VTP



X Side Ballistic Insert (XSBI) - VTP



Torso and Extremity Protection (TEP)



Pelvic Protection System



Ultra Low Visibility CBA



Family of Concealable Body Armor (FoCBA)



Next Generation ABS (NGABS)

Concept





# Soldier Protection System (SPS)



**Description:** The SPS integrates lighter hard armor plates, soft armor ballistics, pelvic protection, modular helmets, transition combat eyewear protection, and hearing protection. Each piece of equipment is designed to function and complement other parts of the system, yet function independently.

## There are four major subsystems of SPS

- Vital Torso Protection (VTP):** The VTP system consists of hard armor torso and side plate inserts.
- Integrated Head Protection System (IHPS):** The IHPS consists of the helmet, a ballistic applique, maxillofacial shield, night vision bracket, and hearing protection.
- Transition Combat Eyewear Protection (TCEP):** TCEP consists of ballistic protective eyewear capable of transitioning from light to dark and dark to light in ~ one second or less.
- Torso and Extremity Protection (TEP):** The TEP system provides scalable, soft armor protection and consists of the Modular Scalable Vest, the Ballistic Combat Shirt, the Blast Pelvic Protector, and the Weight Distribution System.

## Vital Torso Protection (VTP)



The SPS VTP (front and back hard body armor plates) will provide the same or better ballistic protection than the current baseline suite of torso (ESAPI and X-SAPI) plates.



The SPS VTP (side hard body armor plates) will provide the same or better ballistic protection than the current baseline suite of (ESBI and XSBI) side plates.

## Torso and Extremity Protection (TEP) (Concealable to Full Tactical Configurations)



## Transition Combat Eyewear Protection (TCEP)



## Integrated Head Protection System (IHPS)



Ballistic Applique



Maxillofacial System





# Integrated Head Protection Systems (IHPS)

## Production & Deployment Phase



**Description:** A modular helmet system consisting of a retention system, suspension system, maxillofacial protective system, hearing protection, ballistic applique, and a night vision device bracket. Ballistic protection levels can be added or removed based on mission requirements. The IHPS provides improved fragmentation, ballistic, and blunt impact protection, while reducing the weight and improving the fit over the Advanced Combat Helmet (ACH) and Enhanced Combat Helmet (ECH).

**Capabilities:** The IHPS provides small arms and fragmentary threat protection equal to the ECH and provides accelerative blunt impact protection equal to (T) or better than (O) the ACH and ECH. The IHPS mitigates temporary and prevents permanent hearing loss. Threshold weights for the standard dismounted configuration are 5% lighter than the ACH or ECH. BFD performance is evaluated IAW DOT&E protocol.

**Proponent:** MCoE

**MDA:** PEO Soldier



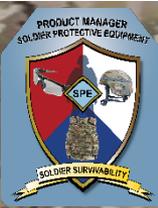
Ballistic Applique



Maxillofacial System



# Torso and Extremity Protection (TEP) Production & Deployment Phase



**Description:** The TEP is an integrated modular soft armor ensemble that provides scalable soft armor protection from a concealable vest to a full up tactical vest with load management capability. The TEP system replaces the Improved Outer Tactical Vest (IOTV), the Soldier Plate Carrier System (SPCS), the Concealable Body Armor (CBA), the Ultra Low Visible CBA (ULV CBA), the Protective Outer Garment (POG), and the Protective Under Garment (PUG) while adding a Weight Distribution System capability. The TEP is comprised of the Modular Scalable Vest (MSV), the Ballistic Combat Shirt (BCS), the Blast Pelvic Protector (BPP), and the Battle Belt/WDS.

**Capabilities:** Lightweight, modular, scalable, and tailorable suite of protective equipment allowing Soldiers to select the personal protective equipment posture. Scalable system providing concealable, low profile, plate carrier, and full tactical configurations. The TEP has maintained the highest Soldier system rating while also achieving a 5 pound (26%) weight reduction, improved protection, and providing a load distribution system to manage residual weight.

**Designs:** Government Owned Design

**Proponent:** MCoE

**MDA:** PEO

## Concealable to Full Tactical Configurations





# Torso and Extremity Protection (TEP) FY18 Contract Actions



- In support of Soldier Protection System (SPS) Torso and Extremity Protection (TEP), Product Manager Soldier Protective Equipment is looking at awarding the following contracts in FY18/FY19:
  - **Blast Pelvic Protector (BPP):**
    - Current Indefinite Deliveries Indefinite Quantities (IDIQ) contracts expire in 4QFY18
    - Three (3) to five (5) year IDIQ contract with multiple awards
    - Government pattern for carrier, vendor provides Soft Armor Ballistic Insert (SABI)
    - Best Value
  - **Battle Belt:**
    - Battle Belt is a near term replacement to the Load Distribution System (LDS). The LDS requires additional technology development to gain user acceptance
    - Three (3) to five (5) year IDIQ contract with multiple awards
    - Government pattern for Battle Belt, vendor provides SABI
    - Best Value
  - **Modular Scalable Vest (MSV) and Light Air Warrior Vest (LAWS) SABI:**
    - Current MSV IDIQ contracts expire in 4QFY18 and LAWS IDIQ contracts expire in 1QFY19
    - Provides SABI for MSV, Air Warrior vest, and USMC vest
    - Three (3) to five (5) year IDIQ contract with multiple awards
    - Government pattern, vendor provides SABI
    - Best Value
  - **Modular Scalable Vest (MSV) and Light Air Warrior Vest (LAWS) Carrier:**
    - Current MSV IDIQ contracts expire in 4QFY18 and LAWS IDIQ contracts expire in 1QFY19
    - Provides Carriers for MSV, Air Warrior vest, and USMC vest
    - Three (3) to five (5) year IDIQ contract with multiple awards
    - Government pattern
    - Best Value

**Finalizing the Acquisition Strategy**





# Transition Combat Eye Protection (TCEP) Production & Deployment Phase



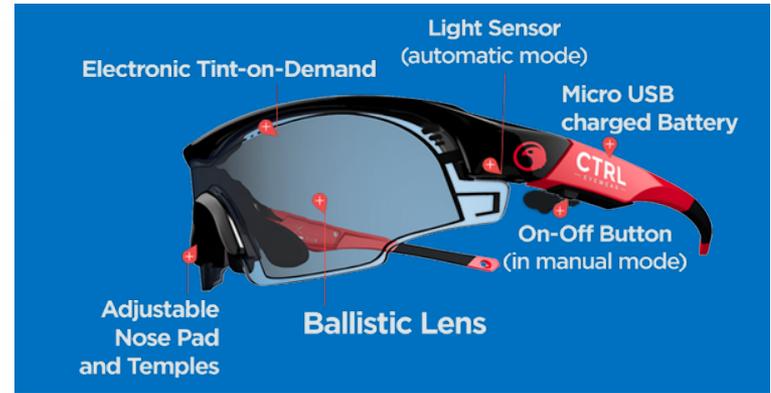
**Description:** Polycarbonate lens with transition laminate and plastic frame, polycarbonate clear lens, cleaning cloth, anti-scratch and anti-fog solution/treatment, anti-reflective sleeve (goggles), and carrying case.

**Capabilities:** Protective eyewear provides ballistic fragmentation protection and UV protection for both prescription and non prescription wearers. Eyewear is capable of adjusting to varying light conditions and transitions in ~ one second or less. Goggles also provide sand/wind/dust protection.

**Proponent:** MCoE

**MDA:** PEO Soldier

## Commercial Variant



## Military Variant





# Generation II Advanced Bomb Suit (GEN II ABS)



**Description:** The ABS GEN II will provide a 15% (11 lbs.) to 40% (29 lbs.) weight reduction to the Explosive Ordnance Disposal (EOD) Technicians. The form, fit, and function will also be optimized by additional sizes. Additionally, an improved cooling system will be fielded with the GEN II. ABS GEN II will begin fielding in accordance with G3/5/7 priorities in 2Q-3QFY19 and immediately begin supporting all sustainment activities. The four year requirements contract will provide the best available Non-Developmental Item until the Next Generation Advanced Bomb Suit (NGABS) suit and helmet begins full rate production in FY22. The system is comprised of the jacket, trousers, blast shield, helmet, and cooling system.

**Capabilities:** Fragmentation, blast, impact, and flame protection.

**Proponent:** MSCoE

**MDA:** PEO Soldier





# Next Generation Advanced Bomb Suit (NGABS)



**Description:** NGABS will be a modular, scalable, and mission tailorable system providing significantly increased capabilities at a reduced weight. The system will provide Explosive Ordnance Disposal (EOD) Technicians with the ability to scale the level of protection and tailor the system for each mission. The system will add significant protection with new materials and a cooling system while realizing an overall weight savings. NGABS will also bring the ability for EOD Technicians to operate in low light level conditions with a Modular Sensor and Display. The program will offer substantially improved form and fit with additional sizing.

**Capabilities:** Modular, scalable, and mission tailorable system based on mission set and EOD Team Leader guidance. 10% weight reduction from Legacy system. 360 degree fragmentation, blast, impact, flame, and ballistic protection. Low light level/night operation integrated capability. Modular cooling system.

**Proponent:** MSCoE

**MDA:** PEO Soldier

## **Legacy System:**

- ABS and GEN II ABS

## **JCIDs Status:**

- CDD: Approved Nov 2016
- MS-B: Feb 2018 (Estimated)

## **Issues/Challenges/Concerns:**

- Legacy system is 16 years old and was not designed for operations in a combat environment.
- NGABS will have a supply code of class 7 vice class 2



Concept





# PdM SPE Points of Contact



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# Meeting the Warfighter's Requirements



**"Stopping the Bullets"**



**MARINE CORPS SYSTEMS COMMAND**  
HOME OF THE MARINE CORPS ACQUISITION PROFESSIONALS



**Ground Combat Element  
Systems**



*Project Officer  
for  
Individual Armor Team  
PM Infantry Combat Equipment (PM ICE)*

***Cherelda Stephens  
16 November 2017***



# Hard Armor/Soft Armor

- ▶ **Research and Development**
  - ▶ **Lighter plates**
  - ▶ **Stand-alone plates**
  - ▶ **Hard Armor Industry Day 28 Nov 2017 (tentative)**
- ▶ **Procurement**
  - ▶ **PC Gen III**
    - ▶ **Improves mobility, weight, fit and function**
    - ▶ **Up to 25% lighter, 1.5 inches shorter, contoured shoulders, removable low profile vest, integrated load bearing panel**
    - ▶ **Presolicitation Notice release week of 13 Nov 2017**
    - ▶ **Industry Day 29 Nov**
    - ▶ **Solicitation release Jan/Feb 2018**