Project Manager (PM)
Soldier Protection and Individual Equipment (SPIE)
Program Overview
To
Joint Advanced Planning Brief for Industry

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PM Soldier Protection & Individual Equipment
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PM SPIE Mission:
Develop and provide superior and sustainable integrated clothing and equipment in a rapidly changing global environment as well as provide Soldiers with the state-of-the-art protection to defeat and reduce threats associated with ballistics, blast overpressure, fragmentation, and heat.
PM SPIE Focus

• Support to Operation Enduring Freedom (OEF)/Rapid Fielding Initiative (RFI)
• Establishment of Enduring Programs of Record (PORs)
• Combat Uniform Camouflage Effort
• Deployer Equipment Bundle (DEB)
• Soldier Protection System (SPS)
• Clothing Bag Uniforms
• Tropical Uniforms and Equipment
• Arctic Warrior Uniforms and Equipment
• Female Specific Uniforms and Equipment
Soldier Clothing and Individual Equipment
**Product Manager**

**Soldier Clothing and Individual Equipment**

**Individual / Unit Equipment**
- Team Stove
- Multi-purpose Personal Hydration System
- Individual Water Treatment Device
- Modular Sleeping Bag Systems
- Army Mountaineering Kit
- Individual First Aid Kit II (IFAK II)

**Tactical/Environmental Clothing**
- OCP Flame Resistant ACU
- Fuel Handlers’ Coverall
- Army Aircrew Combat Uniform (A2CU)
- Lightweight Performance Hood (LPH)
- Modular Ghillie Suit & Ghillie Suit Accessory Kit (GSAK)
- Improved Combat Vehicle Crewman (iCVC) Ensemble
- ACU - Permethrin
- Army Combat Shirt
- JSLIST
- FR-ACU
- Army Combat Pant (ACP)
- Fire Resistant Environmental Ensemble
- Extended Cold Weather Clothing System
- Army Combat Uniform (ACU) & Ancillary items
- ACU-Alterante (ACU-A)

**Hand and Foot Wear**
- Mountain Combat Boot
- Temperate Weather Mountain Combat Boot
- Combat Gloves

**Personal Clothing**
- Army Physical Fitness Uniform (APFU)
- Army Service Uniform
Cold Weather Clothing

Where We Are:
- Flame Resistant Environmental Ensemble (FREE):
  - DLA competing sustainment contracts at the component level to support Aviators and Mounted Soldiers

- Extended Cold Weather Clothing System (ECWCS) GEN III
  - In sustainment via DLA at the component level

Where We Are Going:
- Merge capabilities of FR and Environmental Protection into one system with reduced bulk for all Soldiers
  - SEP Effort approved by the SEP Council 2FY14
  - Results will help develop CPD performance requirements
Clothing Bag Team

Where We Are:
- Improved Army Physical Fitness Uniform
  - Increased durability, moisture management and comfort
- Army Combat Uniform Alternate (ACU-A)
  - Alternate sized ACU for small statured Soldiers

Where We Are Going:
- Developing a CPD for an improved Food Service Uniform (FSU) that will provide increased protection while improving the professional appearance of Food Service Soldiers
Flame Resistant (FR) Clothing

Where We Are:
• As a result of Wartime requirements, we have developed and fielded via RFI, the following clothing items:
  – Flame Resistant Army Combat Uniform (FR ACU)
  – Army Combat Shirt (ACS)
  – Army Combat Pants (ACP)
  – Army Aircrew Combat Uniform (A2CU), including Female sizing
  – Improved Combat Vehicle Crewman Coverall (iCVC)
  – Joint Use FR Fuel Handler Coverall

Where We Are Going:
• Establishing enduring requirements for the FR ACU, ACP, eCVC and A2CU
• Defense Acquisition Challenge- Information feeding requirement for a two-piece material solution for eCVC
• Planned improvements to the A2CU (improved fabrics, female sizing)
Boots

Where We Are:
• Mountain Combat Boots (MCBs) developed to support Warfighting mission in mountainous terrain
• Hot Weather Flyers Boot updated to support OND/OEF operations

Where We Are Going:
• Enduring requirement for a temperate and hot weather variant Mountain Combat Boot
• Enduring requirement for development of a tropical/jungle boot
Load Carriage & Hydration

Where We Are:
• Modular Lightweight Load-carrying Equipment (MOLLE)
• Developed Medium Ruck for Deployers

Where Are Going:
• Integrated Load Carriage (ILC) System
  – ILC CDD being developed with focus on:
    – Integration with a new Body Armor System
    – Reduction and Disbursement of weight
    – Reduced bulk

• Individual Water Treatment Device (IWTD) will provide Soldiers the ability to hydrate while on the move from indigenous water sources
  – Program initiation anticipated 4FY14

• Multi-Purpose Hydration System (MPHS) will provide Soldiers the ability to hydrate in a Chemical environment
  – Material Development and Production Decisions anticipated 4FY14
Soldier Protective Equipment
Force Protection Evolution

- **Improved Outer Tactical Vest (IOTV)** (2002)
- **GEN II IOTV** (2005)
  - New Quick Release
  - 7 New Sizes
  - More Streamlined Cut/Fit
- **GEN III IOTV** (2012)
  - Upgraded Buckle Quick Release
  - More Stable Cummerbund
  - Integrated Pelvic Protection
- **Female IOTV** (2013)
  - Gen III IOTV With Female Specific Sizing for Enhanced Form/Fit/Function
- **Plate Carrier** (2013)
  - Very Streamlined System
  - Less Area of Coverage
  - Maximum Range of Motion

- **Concealable Body Armor** (2002)
  - Handgun and Fragmentation Protection
- **Ultra-Low Vis Concealable Body Armor** (2013)
  - Very Streamlined Sizing with Integrated Rifle Protection

- **Advanced Combat Helmet** (2003)
  - Fragmentation and Handgun Protection
- **Enhanced Combat Helmet** (2014)
  - Rifle Protection

- **Small Arms Protective Insert (SAPI)** (2002)
  - Basic Small Arms Protection
- **Enhanced SAPI (ESAPI)** (2005)
  - Enhanced Sniper Threat Protection
- **X Threat SAPI (XSAPI)** (2010)
  - Advanced Armor Piercing Protection
Soldier Protection System (SPS) (Integrated, Modular, Mission Tailorable)

Vital Torso Protection (VTP)
- Enhanced Small Arms Protective Inset (ESAPI)
- Enhanced Side Ballistic Insert (ESBI)
- X Threat Small Arms Protective Inset (XSAPI)
- X Threat Side Ballistic Insert (XSBI)

Integrated Soldier Sensor System (ISSS)
- Blast Overpressure Gauge
- GEN III Helmet Sensor
- Physiological Status Monitor
- USB Connection
- Wireless Connection

Transitional Combat Eye Protection (TCEP)

Torso Protection (TP)
- Integrated Capabilities

Extremity Protection (EP)
- Protective Under Garment
- Protective Outer Garment

Soldier Protection System (SPS) replaces the capability of multiple current systems and provides Soldiers a 10% weight reduction – reducing Soldier Load!
Helmets

Where We Are:
• Lightweight Army Combat Helmet (ACH):
  – Reducing weight while maintaining ballistic protection
• Enhanced Army Combat Helmet (ECH):
  – Procured to support OEF operations
  – Increased ballistic protection at ACH weight

Where We Are Going:
• Enduring requirement to the Integrated Head Protection System (IHPS)- Increased protection and reduced weight:
  – Modular Helmet
  – Maxillofacial Protection
  – Transitional Combat Eye Protection (TCEP)
  – Modular Ballistic Appliqué
Soft Armor

Where We Are:
• Improved Outer Tactical Vest (IOTV)- Improved over years and lessons learned to support wartime needs
  – GEN II-IV, FIOTV

Where We Are Going:
• Enduring requirement for Torso and Extremity Protection:
  – Scalable, Mission-Tailorable Body Armor
  – Base Vest to full-up Ballistic Coverage Vests
  – Pelvic Protection-
    – Improved ballistic over and under garments
Hard Armor

Where We Are:
- Enhanced Small Arms Protective Insert (ESAPI)/Enhanced Side Ballistic Insert (ESBI)
- X Threat Small Arms Protective Inserts (XSAPI)/X Threat Side Ballistic Insert (XSBI)

Where We Are Going:
- Enduring requirement for X threat variant and E threat variant at reduced weight and bulk
Eye Protection

Where We Are:
• Authorized Protective Eyewear List (APEL)- PM SPE tests commercial-off-the-shelf (COTS) eyewear to ensure compliance with military standards
• Combat eyewear sustained at Central Issuing Facilities (CIFs)

Where We Are Going:
• Enduring requirement (part of IHPS)
• Transitional eyewear will be capable of adjusting to varying light conditions while providing increased ballistic fragmentation protection
Jungle Uniform and Equipment

Where We Are :
• Jungle Boot: FY14 Soldier Enhancement Program (SEP) initiative
  – Durable in jungle environments (high humidity)
  – Quick drying and highly breathable
  – Drainage for evacuation of water
  – Pronounced heel to allow for improved grip
  – Outsoles that allow for braking on wet, muddy slopes
  – Tread/Lug pattern that easily sheds mud and debris
  – Keep mud and debris out of boot in water & deep mud

Where We Are Going:
• Establishment of enduring requirement and program of record
Arctic Warrior Uniforms & Equipment

Where We Are:
• Soldier Enhancement Program (SEP) approved:
  – Arctic Canteen with Cup and Cover
  – 4 Glove System
  – Extreme Cold Weather Socks
  – Balaclavas
  – Light Loft Jacket
  – Ski Binding
  – Extreme Cold Weather Fuel Handler’s Glove

Where We Are Going:
• Gaiter/Over-Boot: An effort to develop a stand-alone, insulated gaiter/over-boot
• Establishment of enduring requirement and program of record
Female Specific Sizing
Uniforms and Equipment

Army Combat Uniform-Alternate

- The ACU-A offers significant additional sizing options that will accommodate soldiers with smaller physical stature.
- Bi-riding placement adjusted inward.
- Shoulder width narrowed.
- Repositioned rank.
- Adjusted sleeve length and width.
- Repositioned elbow patches.
- Repositioned pencil and sleeve pockets.
- Adjusted chest waist and sweep ratio.
- Longer length front and back.
- Adjusted hip to waist ratio.
- Adjusted front and back rise.
- Repositioned knee patches.

Items not shown:
- Removed adjustable elastic waistband.
- Shunged extended button fly.
- Repositioned pockets with front snap and cargo.

Fire Resistant Environmental Ensemble (FREE)

- Provide female Aviators or other female Soldiers that require No Melt/No Drip or Flame Resistant undergarments within the Fire Resistant Environmental Ensemble (FREE) system.
- Increase overall comfort and support for female Soldiers while using the FREE system without sacrificing burn protection from flash flame threats.

Army Aircrew Combat Uniform (A2CU)

- The A2CU is a two-piece flight suit that offers the Soldier protection from flash fires.
- The A2CU Alternate provides fit improvements for the female Soldier and the same level of flame resistant (FR) protection as the A2CU.

- Reshaped hip.
- Changed waist design to partial elastic.
- Waistband reshaped.
- Shoulder narrowed.
- Sleeve length shortened.

Female Improved Outer Tactical Vest (F-10TV)

- The F-10TV is a variant of the IOV-100 with a modified outline which can fit better around the chest for better coverage.
- The vest is shorter in length which enables female Soldiers to wear without the vest riding up.
- The vest has narrower shoulders and provides additional shoulder and arm adjustment.
- A redesigned collar which better accommodates the suit to be worn by many female Soldiers.
- All sizes use current IOV-10TV plates.