SYSTEM INTEGRATION

The Individual Protection Directorate (IPD) is a major player in both Future Force Warrior and the National Protection Center by providing technical program support and the necessary individual protection technologies to modernize the Warrior and First Responders.

JOINT SHIELD CELL (JSC)

IPD's initiative to provide superior technical support to the Joint Program Management Office-Individual Protection (JPMO-IP) Team on business that is relevant to Chemical and Biological Protective Clothing and Equipment. JSC's goal is to ensure improved responsiveness, enhanced integration, and increased communication in all JPMO-IP supporting activities, including: basic research, systems development, demonstrations of technology development, and sustainment.

UNIQUE CAPABILITIES AND FACILITIES

- ISO Certified Textile Performance Testing and Color Measurements Laboratory
- ISO Certified Fiber Research and Production Facility
- Camouflage Evaluation Facility
- Design and Prototype Facility
- Computer Aided Design and Rapid Prototyping Laboratory
- Digital Inkjet Design and Printing System
- Raincourt Facility
- Footwear Performance Laboratory
- Man-in-Simulant Test (MIST) Chamber
- Clothing and Individual Equipment Facility

RDECOM

WARFIGHTER EQUIPMENT SYSTEMS (WES)

Global Threat Protection for the Warfighter

US ARMY NSRDEC
WARFIGHTER PROTECTION &
AERIAL DELIVERY DIRECTORATE

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UNCLASSIFIED

WARFIGHTER EQUIPMENT SYSTEMS (WES)

MISSION

To plan, execute and rapidly transition research, development, and engineering support of protective clothing and individual equipment technology.

VISION

To be the leader and preferred source for individual protection technology.

STRATEGIC INITIATIVES

- Rapidly Execute and Transition Technology
- Customer Satisfaction
- Joint Focus
- Partnering and Collaboration
- Rapidly Solve Field Problems

SCIENCE AND TECHNOLOGY

Advanced Technology Team: Reviews and analyzes the potential value of advanced technologies for insertion into Soldier systems.

Ballistic Technology Team: Provides state-of-the-art advancements in lightweight ballistic protective materials and systems to protect individual warfighters from multiple ballistic threats (e.g. fragmentation, bullets and blast).

Materials and Systems Integration Team: Conducts research and systems engineering to develop multifunctional material systems that are durable, cost effective and protect against a variety of hazards, such as flame, environmental and surveillance.

Chemical Technology Team: Provides state-of-the-art advancements in chemical and biological protective materials and ensembles as well as microclimate conditioning systems that provide protection in nuclear, biological, chemical (NBC) environments.

Fiber Processing & Technology Team: Supports research and development, a fiber processing pilot plant and full-scale production capabilities in single and multi-component fiber extrusion.

(from left to right) *SOF Protective Combat Uniform; Air Warrior Microclimate Cooling Vest; Advanced Combat Uniform; Future Force Warrior Ensemble; Extremity Body Armor and Small Arms Protective Insert Plate; USMC Battle Dress Uniform; Semipermeable Membrane CB Protective Suit*

ENGINEERING DESIGN, TESTING AND PERFORMANCE EVALUATIONS

Engineering, Prototype and Perfomance Evaluation Team: Provides ISO certified technical support for multiple customers in engineering design, testing and performance evaluations of textile-based materials for functional properties, The team establishes digital color acceptability criteria for use in procuring military items. They produce quality prototypes for textile-based items and pursue stitchless and other novel technologies for end-item fabrication. Computer aided design and rapid prototyping support is also provided for evaluating component and system design issues prior to actual fabrication.

JOINT SERVICE PRODUCT DEVELOPMENT

Army Soldier Systems Engineering Team: Supports the Program Executive Officer Soldier in design and fielding individual combat clothing, equipment, footwear and load carriage gear that integrates technology to make a more mobile, more survivable, and more lethal Warfighter. Supports the Program Manager - Infantry Combat Equipment by providing technical, programmatic and acquisition support to the US Marine Corps in the development of materials and methods for clothing and individual combat equipment.

Special Operations Forces (SOF) Special Projects Team: Supports Program Executive Officer Special Projects and is responsible for joint SOF (Army, Navy, USMC and Air Force) development and fielding of personal clothing and equipment.