

# The Face of Freedom



# TEAM SOLDIER



Program Executive Office Soldier  
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## The Soldier as a System

Historically, Soldier equipment has fit together more by coincidence than by design. However, technological advances have made possible the most significant transformation of Soldier equipment in half a century.

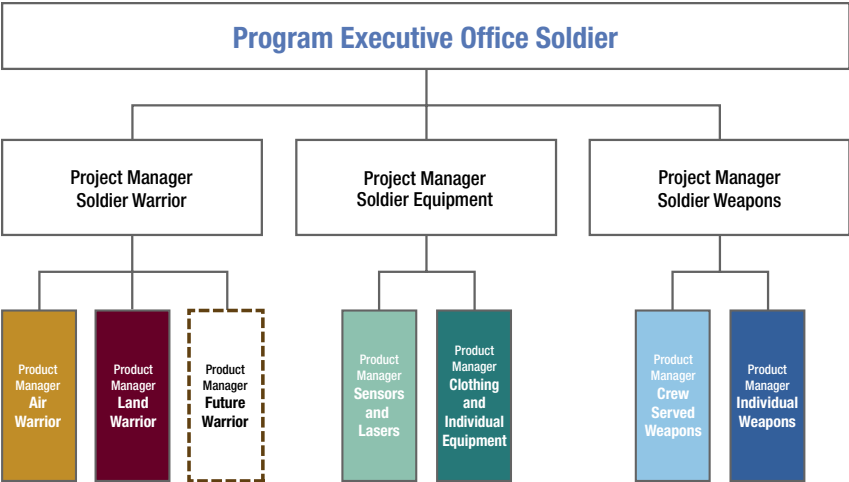
The Army recognized the need to focus, refine, and leverage new technologies to benefit the Soldier and created a single acquisition office to champion this transformation to the 21st century warfighter.

Program Executive Office (PEO) Soldier stood up in April 2002. PEO Soldier's mission is to arm and equip Soldiers to dominate the full spectrum of peace and war, now and in the future. To achieve this mission, the Army is re-envisioning

the Soldier as a System. The Soldier is the ultimate weapon, but until recently the Soldier's warfighting needs have not been considered as a single platform, functioning as a system and integrated with other systems in the same manner as larger systems. PEO Soldier develops all aspects of Soldier equipment to be integrated, modular, interoperable, and mission-tailorable.

The result is a single integrated combat system that enhances Soldier performance in all critical areas—increased effectiveness, decreased load, and improved mission flexibility—and enables continuous upgrades.

By managing the Soldier as a System, PEO Soldier will save Soldiers' lives, improve their quality of life, and increase their combat effectiveness.



Program Executive Office Soldier is composed of the following Project Manager Offices and special activities:

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## **FY04 RFI Equipment List**

### **Force Protection/Mobility**

Advanced Combat Helmet (ACH) and Cover

ACH NOD Mount

Helmet Repair Kit

Modular Integrated Communications Helmet (MICH) System

Knee and Elbow Pads

Grappling Hook

Door Ram

Tomahawk

Fiber Optic Viewer

Quickie Saw and Replacement Blades

Modular Entry Tools

Double Key – Cuff

Assault Ladder with Backpack

### **Soldier Mission-Essential Equipment**

Modular Lightweight Load-Carrying Equipment (MOLLE) Accessories

Multipurpose Tool

Black Fleece Bib

Silk Weight Underwear

Hydration System

Goggles

Glove System

Cold Weather Cap

Army Combat Boot  
(Temperate Weather)

Army Combat Boot (Hot Weather)

Commercial, off-the-Shelf (COTS) Socks

Moisture Wicking T-Shirt/Sports Bra

Combat Belt

### **Lethality**

Weapon Light

M249 Forward Rail System

M240B Forward Rail System

M122A1 Tripod

M24 Mini Binoculars

VIPER (VECTOR 21)/Mark VII

PRC-148 Multiband Inter/Intra Team Radio (MBITR)

M249 Ammo Soft Pack

M240B Combat Ammo Pack

M4/M16 Magazines

### **Individual Weapons/Optics**

TA31F-4X Advanced Combat Optical Gunsight (ACOG)

M145 Machine Gun Optic

M68 Close Combat Optic

Backup Iron Sight



## Rapid Fielding Initiative

The Rapid Fielding Initiative (RFI) provides Soldiers with the finest state-of-the-art individual and small unit equipment to enhance their lethality, mobility, and survivability on the battlefield. The RFI program enhances our fighting forces' capabilities in the daily performance of their missions, provides an equitable distribution of capabilities across our force, and modernizes our Soldiers in a systematic and integrated manner according to the principles of the Soldier-as-a-System philosophy.

Initiated in late 2002 as a reflection of lessons learned from Operation Enduring Freedom, RFI currently consists of more than 40 items that provide the most up-to-date equipment in the categories of force protection and mobility, lethality, Soldier mission-essential equipment, and individual weapons/optics. To date, more than 200,000 Soldiers have benefited from this new equipment. Nineteen brigade combat teams and 105,000

support troops have been fielded with RFI equipment in FY04 alone; 27 additional brigade combat teams and 161,000 support troops are on track to be fielded in FY05.

The criticality of RFI to Soldier readiness and capabilities fostered further expansion of the program through the establishment of a goal, beginning in FY05, to equip all Soldiers in the operational Army with RFI equipment by the end of FY07. The end state of the operation will find some 840,000 Soldiers in 48 Active and 36 Reserve Component brigade combat teams, along with their associated Combat Support units, receiving the enhanced capabilities provided by the basic RFI Soldier kit. Throughout this process, PEO Soldier is committed to saving Soldiers' lives, improving their quality of life, and increasing their combat effectiveness.



# PROJECT MANAGER SOLDIER WAR

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PM Soldier Warrior supports Soldiers by making the Soldier-as-a-System concept a reality through the acquisition of modular, integrated Soldier systems designed to improve:

- Battle Command and Tactical Awareness
- Lethality
- Survivability
- Mobility and Sustainment

PM Soldier Warrior programs include Ground Soldier Systems, Air Soldier Systems, and Mounted Soldier Systems.

PM Soldier Warrior will also develop, produce, test, and field advanced capabilities for the Future Force, including Ground, Air, Mounted, Maneuver Support, and Maneuver Sustainment Soldier Systems.



# RIOR



# Product Manager Air Warrior

PM Air Warrior is fielding the first Air Soldier System. Air Warrior is a modular system that integrates with the aircraft and increases freedom of movement of flight controls, improves mobility to safely operate aircraft systems, enables easier ingress and egress from the aircraft, and through enhanced comfort and cooling, increases mission duration time in full, mission-oriented protective posture ensemble.

The Electronic Data Manager, which will begin fielding this year, is a user-friendly kneeboard computer that displays moving maps (aircraft position and waypoints), interfaces with Blue Force Tracking (BFT) and the Aviation Mission Planning Station (AMPS), and performs weight and balance calculations.



Air Warrior

## Survival Equipment Subsystem

- Primary Survival Gear Carrier
- Survival Gear
- Soft Body Armor with .30 Cal Hard Insert
- Current M9 (9mm) - Defensive Weapon
- Thigh Holster
- PRC 90/PRC 112 Radios
- Aircrew Survival Egress Knife

## Clothing Items

- Improved ABDU
- Aircrew Cold Weather Clothing System

## NBC Protection

- M45 Protective Mask with Blower
- M48 Protective Mask with Blower
- Modified Chemical Protective Undergarment, Gloves, and Overboot
- Joint Protective Aircrew Ensemble
- Joint Service Aircrew Mask

## Microclimate Cooling System

- Microclimate Cooling Garment
- Microclimate Cooling Unit







### Modular Integrated Helmet Display System (MIHDS)

HGU-56/P/IHADSS Helmet

Communications Earplug  
(HGU-56/P)

Laser Eye Protection

Night Vision Goggles

Maxillofacial Shield (MFS)



**Cockpit Air Bag**



### Over Water Mission Equipment

Anti-Exposure Suit (CWU-62/P)

Overwater Gear Carrier w/  
Integrated Raft

Survival Egress Air

Low Profile Flotation Collar



### Electronic Data Manager

Interface with AMPS

Interface with BFT

Moving Map Displays

Performance Planning

Checklists/Manuals

Operates off Aircraft Power

### Aircraft Wireless Intercom System

CH-47 and UH-60 only




## Product Manager Land Warrior

PM Land Warrior is developing the Ground Soldier System which integrates everything an infantry Soldier wears or carries on the battlefield. Land Warrior, the Ground Soldier System currently in development, provides significant improvements in Soldier tactical awareness, lethality, and survivability.

The Dismounted Battle Command System, an early spiral-out from Land Warrior, will improve the infantry unit's battle command and tactical awareness.


Mounted Warrior is an integrated system that will improve the survivability, lethality, and combat effectiveness of armor vehicle crewmen, including Future Combat Systems (FCS) crewmen.



Dismounted Battle  
Command System



Commander's Digital  
Assistant



MicroLight Enhanced  
Position Location Reporting  
System (EPLRS)



Mounted Warrior



Land Warrior



Multiband Inter/Intra  
Team Radio (MBITR) AN/  
PRC-148(V)(C)



Dismounted-Combat ID  
Marking System (D-CIMS)

## Product Manager Future Warrior

PM Future Warrior will develop and field a family of Soldier Systems for the Future Force. Future Soldier Systems will be lightweight, overwhelmingly lethal, and fully integrated individual combat systems that provide head-to-toe individual protection, networked communications, Soldier-worn power sources, and enhanced performance. Future Warrior will provide Soldier System capabilities for the Future Combat Systems (FCS).



Sensory Enhancement



Protection (Integrated Suit & Helmet)



Strike (Exploit FCS Netted Fires)



Robotics



Human Performance and  
Embedded Training



Power Sources



Future Soldier





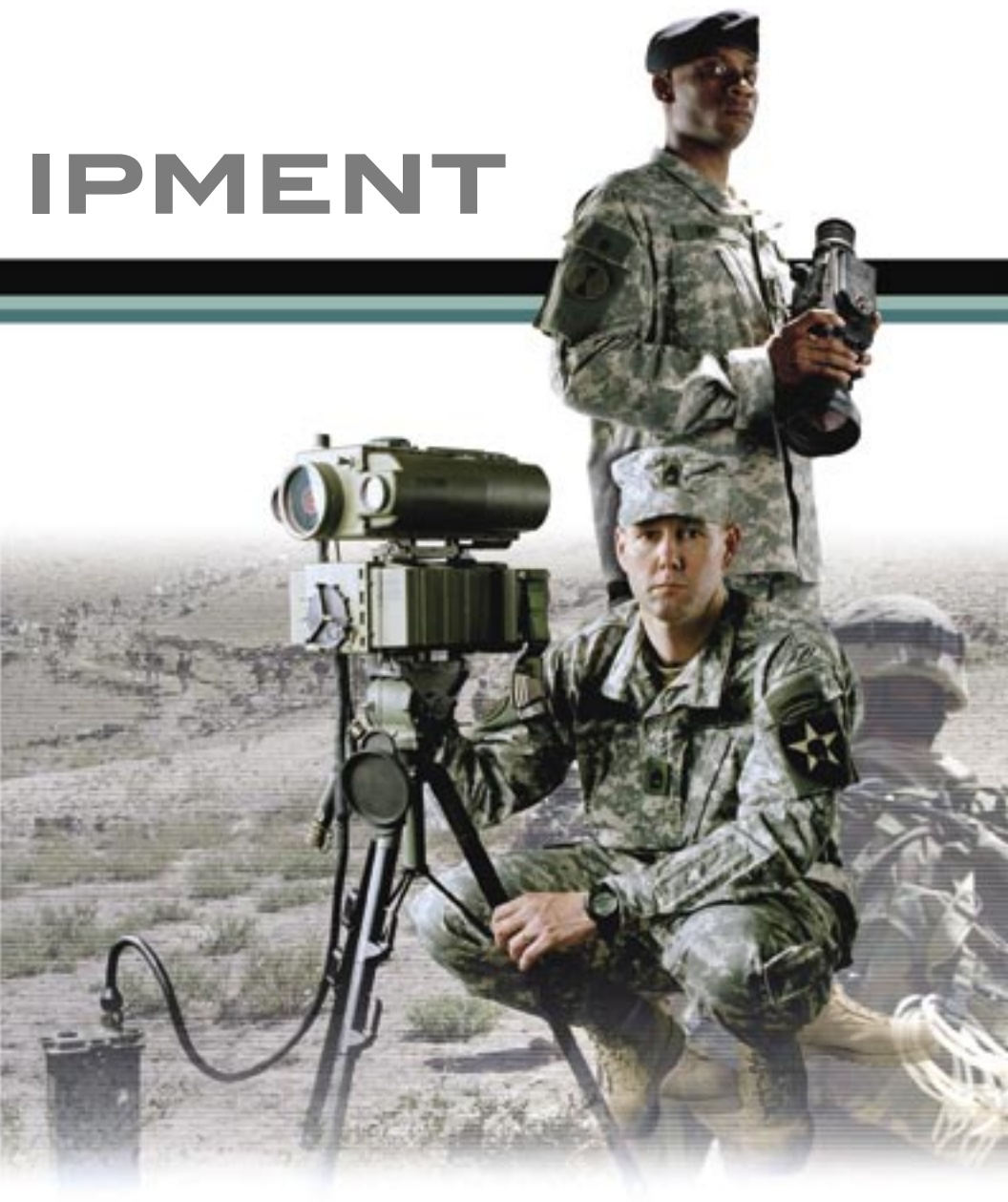


# PROJECT MANAGER SOLDIER EQU

PM Soldier Equipment enhances lethality, survivability, mobility, and enables sustained Soldiers performance, and improves the health, safety, and comfort of Soldiers in both field and garrison environments through a variety of individual equipment and clothing items. These items range from highly advanced technology that enables the Soldier to perform both day and night operations to formal clothing and accessories that promote a highly professional appearance. PM Soldier Equipment product lines include:

- Night vision devices
- Small, lightweight, thermal sensing devices
- Man-portable laser/light technologies for pointing, illumination, range-finding, and target designation
- Ballistic and fragmentation protection
- Technologically advanced tactical and environmental protective clothing
- Individual chemical protective gear
- Personnel airdrop equipment

# IPMENT



## Product Manager Clothing and Individual Equipment

PM Clothing and Individual Equipment (PM-CIE) is fielding advanced tactical and environmental technology to enhance Soldiers' survivability across the full spectrum of military operations. From Afghan mountains and Middle Eastern deserts to manmade environments involving chemical, biological and industrial toxins, PM-CIE provides a state-of-the-art suite of materiel solutions to enhance:

- Soldier survivability, to provide protection from blast, ballistic and fragmentation effects of direct and indirect fire weapons, improvised explosive devices, explosive ordnance and de-mining operations.



Interceptor Body Armor



Advanced Combat Helmet



Army Combat Uniform



Advanced Bomb Suit



Black Fleece Coat  
and Trousers



From left to right: Army Combat  
Boot (Temperate Weather), Army  
Combat Boot (Hot Weather)

- Soldier mobility through individual load carriage systems and equipment that integrate onto the Soldier System for better efficiency and comfort, as well as reduced weight and bulk of all Soldier clothing and individual equipment

Soldier performance is enhanced and sustained through PM-CiE expertise in technologically advanced individual clothing and equipment.



Tactical Assault Ladder System



Micro Rappel System



Collapsible Grappling Hook



Modular Lightweight Load-Carrying Equipment (MOLLE)



Assault Pack



## Product Manager Sensors and Lasers

PM Sensors and Lasers (PM-SSL) enables Soldiers on the ground or in the air to “own the night” by providing them with the vision to enhance the lethality of weapon systems and provide situational awareness through:

- Image intensification devices that provide Soldiers and aviators with improved night vision and increased situational awareness. Aviation devices incorporate heads-up display flight data information, enabling flight operations under very low ambient light conditions and permitting focus outside the aircraft for increased safety.

Enhanced Night Vision Goggles (ENVG) incorporates image intensification and thermal sensors into a combined image or overlay imagery.

- Cooled and uncooled thermal sensors that also provide Soldiers with surveillance



AN/PVS-10



Night Vision Goggles PVS-7



Monocular Night Vision Device PVS-14



Aviator Night Vision Imaging System (ANVIS)



Lightweight Video Reconnaissance System (LVRS)



Enhanced Night Vision Goggles (ENVG)



Light Thermal Weapon Sight (LTWS)



Medium Thermal Weapon Sight (MTWS)



Heavy Thermal Weapon Sight (HTWS)



and fire control capability for individual and crew served weapons during degraded battlefield visibility conditions, enabling accurate detection, acquisition, and engagement of targets in all battlefield conditions.

- Infrared and laser technology that enables Soldiers to use individual and crew served weapons at maximum firing distances, providing laser target location range-finding as well as laser-designation capability.



Aiming Light/Illuminator  
AN/PAQ-4C



Aiming Light/Illuminator  
AN/PEQ-2A



Laser Borelight System  
(LBS)



Integrated Laser  
White-Light Pointer (ILWLP)



Mini Eye-Safe Laser Infrared  
Observation Set (MELIOS)



MK VII



Viper (Vector IV-Binocular  
Laser Rangefinder)



STORM Micro-Laser  
Rangefinder (MLRF)



Lightweight Laser  
Designator  
Rangefinder (LLDR)



Target Acquisition Laser  
Observation Night (TALON)



# PROJECT MANAGER SOLDIER WEA

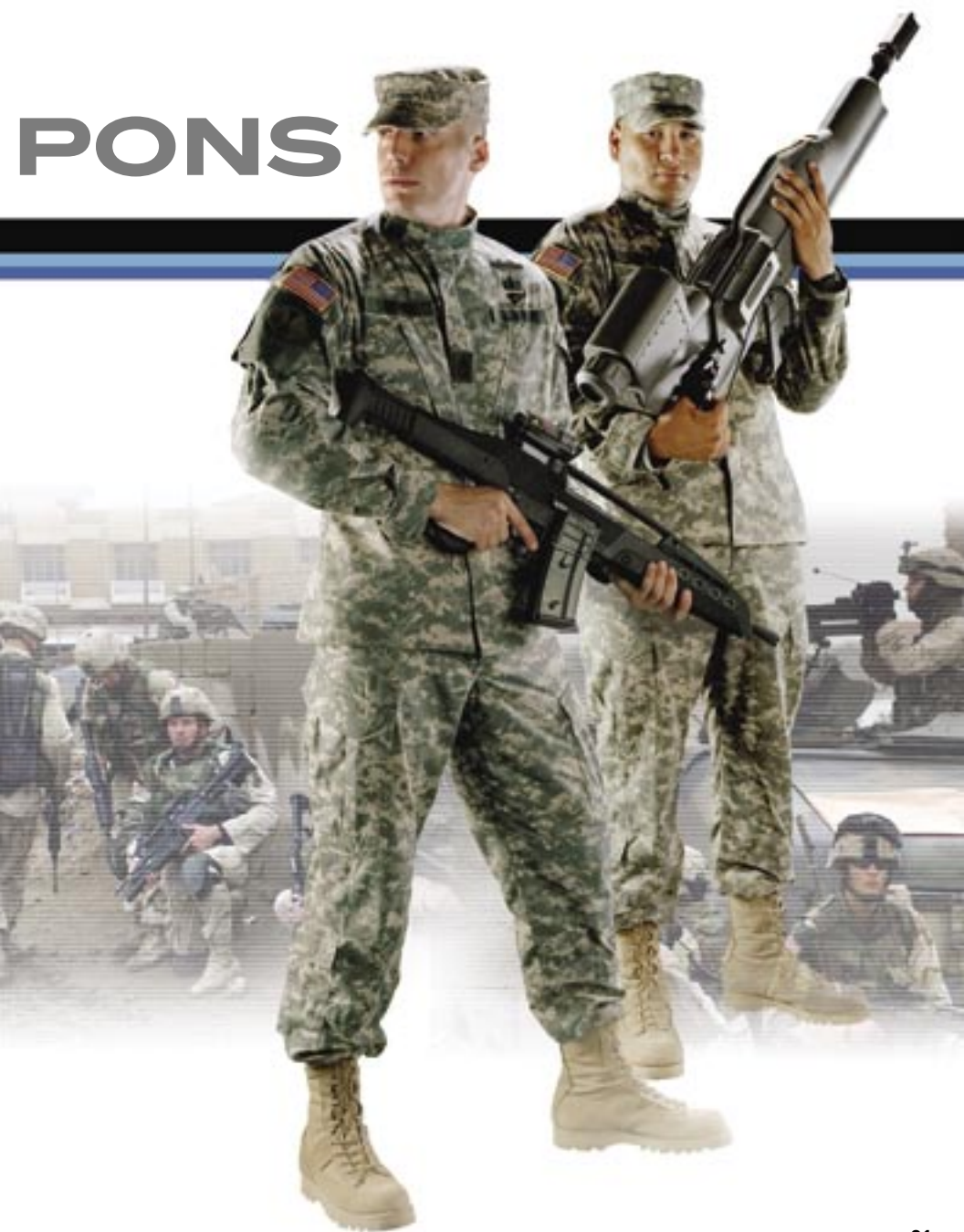
PM Soldier Weapons provides unsurpassed support to Soldiers through the enhancement of current weapon systems and the development and production of future weapon systems, ammunition, and associated target acquisition and fire control products.

PM Soldier Weapons oversees current individual and crew served weapon systems and next-generation weapons programs, including the following:

- XM8 Modular Assault Weapon System
- XM25 Airburst Weapon System
- XM26 Modular Assault Shotgun System
- XM307 Advanced Crew Served Weapon (25mm)
- XM312 Advanced Crew Served Weapon (Lightweight .50 Caliber)
- M107 Long Range Sniper Rifle
- XM101 Common Remotely Operated Weapon Station (CROWS)

PM Soldier Weapons ensures that these systems are equipped with decisive overmatch capability by dramatically increasing lethality and range, and by decreasing weight.

# PONS



## Product Manager Crew Served Weapons

PM Crew Served Weapons maintains and improves current Crew Served Weapons and provides the next generation of Crew Served Weapons for the Army. Weapons include light, medium, and heavy machine guns, automatic grenade launchers, sniper systems, and associated fire control and target acquisition products for the Army and other Services. PM Crew Served Weapons provides Soldiers with a decisive overmatch capability by increasing the lethality and capability of those systems. It manages research and development of all small arms ammunition.



XM307 Advanced Crew Served Weapon



XM312 Lightweight .50 Caliber Machine Gun



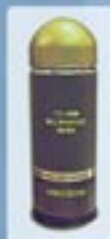
MK19 Grenade Machine Gun



M2 Machine Gun



M107 Long Range Sniper Rifle



XM1060 40mm  
Thermobaric Cartridge





M240B Medium Machine Gun



M249 Squad Automatic Weapon



Common Remotely Operated Weapon Station



M145 Machine Gun Optic



# Product Manager Individual Weapons

PM Individual Weapons maintains and improves current Individual Weapons, such as rifles, carbines, pistols, and grenade launchers for the Army and other Services. It provides Soldiers with decisive overmatch capability by increasing the lethality, range, and capability of those systems. PM Individual Weapons is responsible for the development of next generation Individual Weapons, such as the Integrated Airburst Weapon System, fully integrated day and night target acquisition fire controls, and increased small arms capabilities, including increased service life, decreased training burden, decreased logistics burden, reduced weight, and multi-configurable variants (i.e., changeable barrels and accessories).



XM8 Modular Assault Weapon System





XM25 25mm Airburst Weapon System



M16A4 Rifle



M4 Carbine Modular Weapon System



M9 Pistol



XM320 Grenade launcher



XM26 Modular Accessory Shotgun System

Program Executive Office Soldier integrates 346 programs, enabling the Soldier to dominate the full spectrum of peace and war, now and in the future.

PEO Soldier comprises the following Project Management and special activities offices:

**Project Manager Soldier Warrior**

*Ft. Belvoir, VA*

Product Manager Air Warrior

*Redstone Arsenal, AL*

Product Manager Land Warrior

*Ft. Belvoir, VA*

Product Manager Future Warrior

*Ft. Belvoir, VA*

**Project Manager Soldier Weapons**

*Picatinny Arsenal, NJ*

Product Manager Crew Served Weapons

*Picatinny Arsenal, NJ*

Product Manager Individual Weapons

*Picatinny Arsenal, NJ*

**Rapid Fielding Initiative**

*Ft. Belvoir, VA*

**Project Manager Soldier Equipment**

*Ft. Belvoir, VA*

Product Manager Clothing and

Individual Equipment

*Ft. Belvoir, VA*

*Natick, MA*

*Philadelphia, PA*

Product Manager Sensors and Lasers

*Ft. Belvoir, VA*

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