



CENTER OF OUR STRENGTH

Program Executive Office Soldier



Parachutes

Advance Planning Brief to Industry

12 May 2011



Agenda



- Purpose
 - PM-SCIE Personnel Airdrop Team Mission
 - Introduction
 - Advanced Tactical Parachute System (T-11/MC-6)
 - Universal Parachutists Kit Bag (UPKB)
 - Modular Airborne Weapons Case (MAWC)
 - RFID Parachute Tracking System
 - Static Line Road Map
 - MFF Advanced Ram Air Parachute System
 - MFF Parachutist Navigation System (PARANAV)
 - Electronic Automatic Activation Device (EAAD)
 - Parachutist Oxygen Mask
 - AAUL, Integration, Expertise and S&T Advisors
 - Military Free Fall Road Map



Purpose



Update Industry on the status of
PM-SCIE Personnel Airdrop Team
product developments



Mission



PM-SCIE Personnel Airdrop Team develops, provides and manages innovative equipment and effective training to global airborne forces to enhance their lethality, survivability and mission success.



Every Soldier walks away from every jump





Introduction



- PM-SCIE is the total lifecycle manager for all Army parachute systems
 - 2002 - Static Line parachutes
 - 2004 - Military Free Fall (MFF) systems
- Small but dynamic customer community with unique peacetime and wartime requirements
- 153,416 personnel jumps were executed in FY10 using PEO Soldier Static Line and MFF systems and equipment
- Team of 22 acquisition, engineer, administrative, training and logistics experts in four locations
- Total budget responsibility ~\$46M (FY11)
- Interface with entire DoD and global airborne communities



T-11 Advanced Tactical Parachute System (ATPS)



- Currently in Full Rate Production (~1,000/ per mo)
 - 28,564 of 52,000 AAO procured/on-contract
- Significantly lowered injuries
 - During period 2Q-4QFY10:
 - T-10: of 42,304 jumps, 116 injuries = **2.742 injuries / 1,000 jumps**
 - T-11: of 9,667 jumps, 11 injuries = **1.137 / 1,000 jumps**
- Fielding:
 - 19,500 fielded to-date
 - 75th Ranger Regiment complete
 - 82nd ABN DIV- 8,500 to-date
 - 173d ABCT & 5th QM accelerated fielding from Aug – Nov 11
 - Procure through FY 16



A Soldier is 2.5 times less likely to be injured jumping a T-11 than a T-10



MC-6 Advanced Tactical Parachute System (ATPS)



- MC = Maneuverable Canopy Part of ATPS family of parachutes
- Adopted from US Forestry Service design
- More responsive than legacy systems
- Fielded to DoD Special Operations Forces (SOF) units
- Foreign Military Sales
- 18,831 fielded as of 1 Apr 11:
 - Army- 15,780
 - Navy- 675
 - SOCOM- 2,269
 - USAF- 107
- No New Procurements Planned





Universal Parachutist Kit Bag (UPKB)



- Due to the increased size and weight of T-11, MC-6 and ARAPS parachutes, the legacy kit bag is insufficient
 - Delays Soldier from getting off the drop zone
 - Improper storage may damage system
- With feedback from airborne community, PM-SCIE developed an improved kitbag:
 - Approximately 7000 square inches of storage space
 - Incorporated shoulder straps for ease of carrying, top carrying handles for easy transport
 - A main compartment that is capable of storing both main and reserve canopies for either static line (SL) and Military Free Fall (MFF)
 - Pocket compartment on the outer side of the bag is used for securing a packed T-11 reserve for Static Line (SL)
 - A helmet compartment for Military Free Fall (MFF)



Legacy Aviators' Kit Bag



Prototype UPKB



Modular Airborne Weapons Case (MAWC)



- XVIII ABN Corps identified capability gap jumping modern weapon systems w/ M-1950 weapons case
- Submitted and approved as SEP effort; anticipate CPD 1QFY12
- Commercial item; RFP being prepared
 - A newly designed tactical weapons case for use during airborne operations that is modular, padded, durable, light weight and adjustable in size
 - To provide paratroopers an advanced tactical weapons carrier, capable of tactical airborne operations allowing greater flexibility and decreased weapon systems damage



Legacy M-1950 case



Concept case



Radio Frequency Identification (RFID)



- Industry developed a Parachute Tracking System (PTS) capability using COTS pRFID components which allows for data collection, storage and retrieval of information, information processing and transmission of pRFID tag data.
- The current technology demonstration effort will install a turnkey system at the 82nd Airborne Division Parachute Pack Facility
- This capability will support both training and deployment operations for units deploying to OIF, OEF, or other theaters of operation
- Lack validated POR requirement to sustain effort
- Milestones:

Apr 11- PM-JAIT contract award

Jun-Aug 11- Purchase hardware, develop software

Sep-Oct 11- Integration of HW/SW

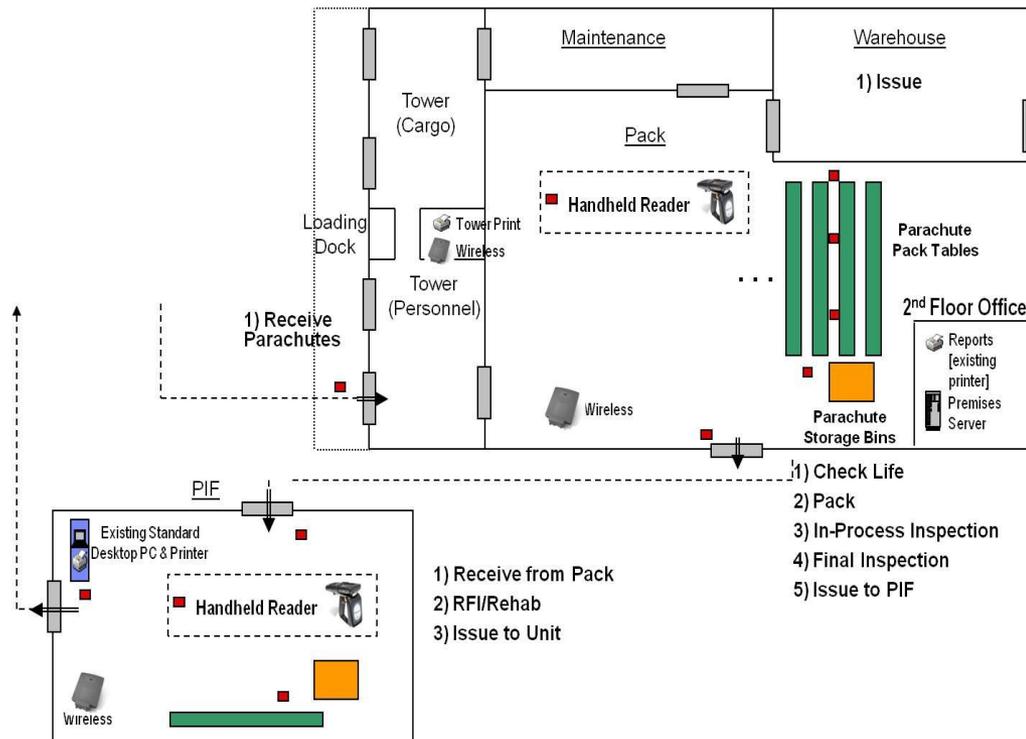
Aug-Nov 11- Installation at Fort Bragg

Oct-Nov 11- System Validation Testing

Jan 12 – User Training

Jan-Feb 12 – Final Test of System

Feb 12 - Initial technology and capability transition to proponent





Military Free Fall Advanced Ram Air Parachute (MFF ARAPS)

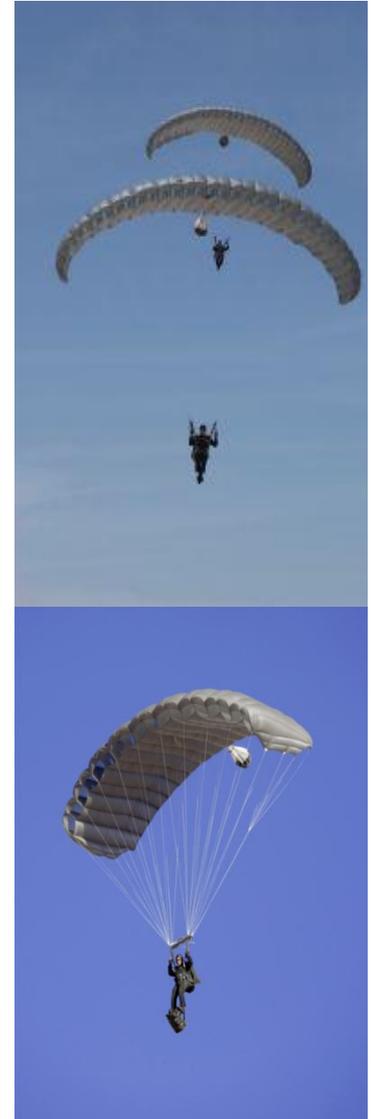


Requirements:

- Provide increased jumper exit weight up to 450Lbs
- Capable of Military Free Fall (MFF) and Static Line deployment >30,000 ft
- Reduced opening shock at exit altitude
- Electronic Automatic Activation Device (EAAD) compatible
- Commercially available system

Status:

- Milestone B - Mar 11 – anticipate contract award 3QFY11
- 3FY11 Design Validation
 - o Live and mannequin drops at upper weights and altitudes to evaluate systems in competitive range
- 1FY12 Developmental Testing
 - o Live jumps in Static Line and MFF configuration with selected system
- 3-4FY12 Operational Testing
 - o Prove system reliability and determine system suitability and effectiveness for operations





Parachutist Navigation System (PARANAVSYS)



A capability gap was identified by USASOC to address the need to conduct low-signature, standoff aerial insertion operations, e.g. MFF

Current Navigation Technology for MFF does not take advantage of GPS guided navigation (compass only)

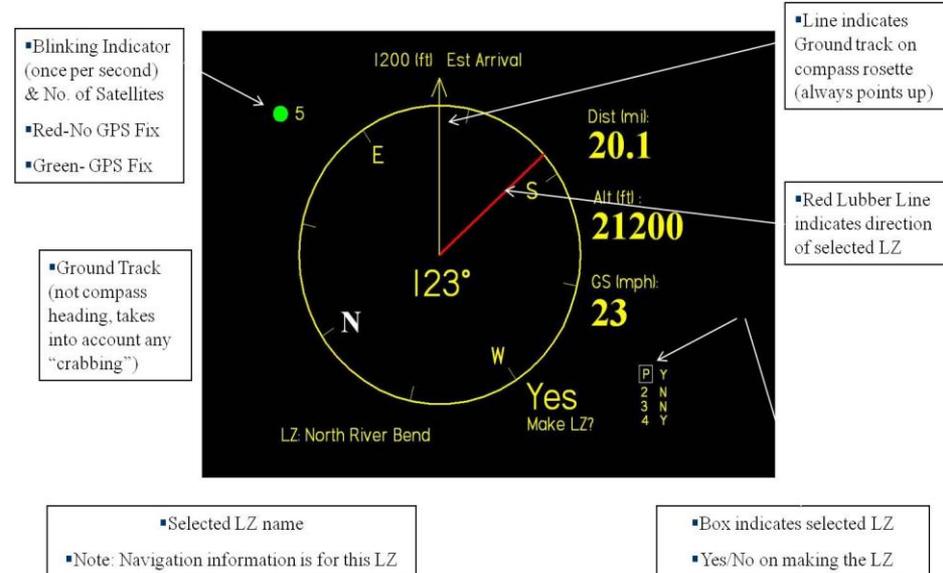
The program objective is to provide GPS guided navigation and mission planning technology for MFF standoff operations

Developed through Natick Small Business Innovation Research (SBIR) Program and BAA Contract (2006 – Present)

System Description/Requirements:

- Reliable and easy to use for mission planning
- Military SAASM GPS w/anti-spoofing
- Lightweight, clear display with no interference to User Screen or Goggle-Mounted

Capability Production Document (CPD) in staffing, Estimated Completion Date (ECD) is May 11





Electronic Automatic Activation Device (EAAD)



Soldier Enhancement Program (SEP)

- Replacement for the Automatic Ripcord Release (AR2)
- Military variant of a commercially available Automatic Opening Device (AOD)
- Activates the reserve using speed and altitude as criteria
- Contract awarded in Mar 07
- FUE 1st SFG Ft. Lewis, WA – Aug 07
- 1,615 units fielded to date
- FEB 09 - During Arch Angel rotation, 7th SFG(A) jumper conducting Night Combat Equipment O2 jump grabbed his oxygen hose during pull and lost altitude awareness - EAAD activated - saving his life
- No future procurements planned





Parachutist Oxygen Mask (POM)



- Currently being fielded to Army and Air Force Special Operations Force (SOF) units
- Provides the MFF parachutist with a safer, more dependable method of receiving supplemental oxygen
- Supports High Altitude Low Opening (HALO) and High Altitude High Opening (HAHO) operations from 35K ft to 10K ft altitude
- Is physically and functionally compatible with legacy ASFS and PHAOS bailout and O2 console systems
- Uses mask mounted on-demand regulator easily replaceable at unit level; lower maintenance requirements than MBU-12
- Low profile mask with side mounted hose configuration reduces risk to parachutist
- Weighs <0.75 lb
- Army has fielded approx 450 masks to date:
 - MFF School, Yuma, AZ
 - 75th Rangers, Ft Benning, GA
 - 1st SFG, Ft Lewis, WA
 - 10th SFG, Ft Carson, CO
 - ABNSOTD, Ft Bragg, NC
- No Future Procurements Planned





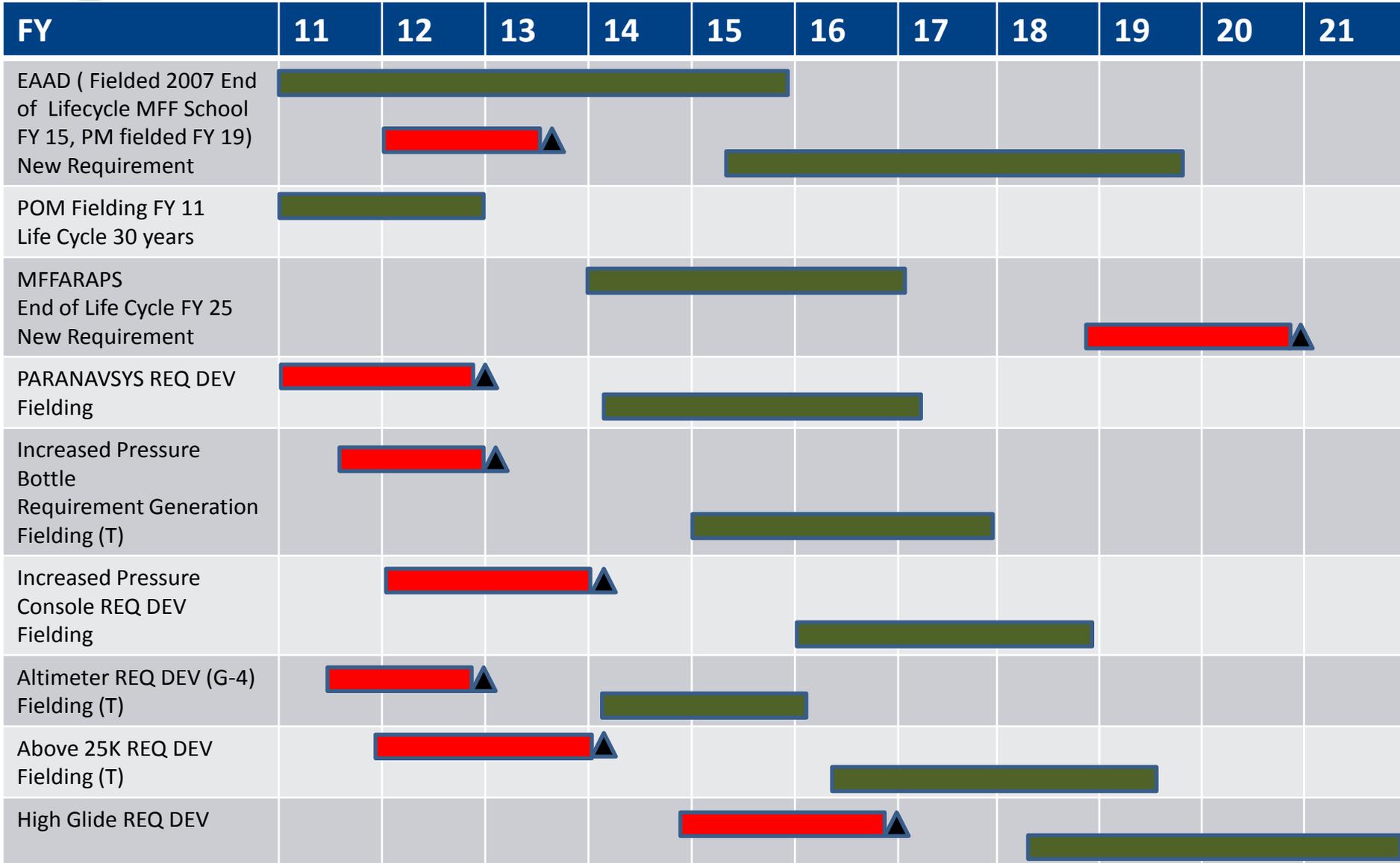
AAUL, Integration, Expertise and S&T Advisors



- Airborne Authorized Use List (AAUL) is a chartered agreement with USASOC that tasks PM-SCIE to test equipment and technologies for Static Line and MFF use
 - Currently over 100 items
 - DoD Members include AFSOC, USASOC, XVIII ABN Corps, MCOE
- Provide testing, feedback, and reports on suitability for airborne ops for wide variety of equipment (body armor, weapons, communications equipment, etc.)
- Involved with users on special projects and airborne initiatives



MFF Road Map





Points of Contact



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QUESTIONS?