

Program Executive Office Soldier

PM-Soldier Clothing and Individual Equipment Personnel Airdrop Systems Update To Parachute Industry Association

Everywhere

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PM-Soldier Clothing and Individual Equipment

Mission



Develop and provide superior and sustainable integrated clothing and equipment in a rapidly changing global environment for the Army's most important combat system... the Soldier!

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.

AIRBORNE





Agenda





- Introduction
- Advanced Tactical Parachute System (ATPS)
 - **T-11**
 - MC-6
- Advanced Emergency Bailout Parachute (AEBP)
- Parachute Tracking System (ePTS)
- Modular Airborne Weapons Case (MAWC)
- Military Free Fall Advanced Ram Air Parachute (MFF ARAPS)
- Parachutists Oxygen System (POS)
- Parachutist Navigation System (PARANAVSYS)

Introduction





- PM-SCIE is the total lifecycle manager for all Army personnel parachute systems
 - 2002 Static Line systems
 - 2004 Military Free Fall (MFF) systems
- Two Teams under PM-SCIE Personnel Airdrop Systems
 - Static Lines systems Mr. Nolen
 - Military Free Fall MAJ Bohlen
- 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 25 acquisition, engineer, administrative, training and logistics experts in four locations
- Interface with entire DoD and global airborne communities

T-11 Status



- Currently in Full Rate Production and Fielding
- Significantly lowered injuries
 - During period 2-4FY10:
 - 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:
 - Approximately 44% fielded
 - Ranger Regiment complete
 - 173d ABN BDE complete
 - 1/507th 3,200 of 8,000 to date
 - 82nd ABN DIV 8,500 of 14,000 todate
 - Resume fielding and training in Feb12
 - 35,840 systems procured to-date
 - AAO: 52,000



Using the T-11 results in 44% fewer injuries than the T-10

Dr. Joseph J. Knapick, US Army Public Health Institute-

"The Advanced Tactical Parachute System (T-11): Injuries During Basic Military Parachute Training"

Aviation, Space and Environmental Medicine, Vol 82, No. 10- October 2011 and T-11





MC-6 Advanced Tactical Parachute System (ATPS)

- MC = Maneuverable Canopy
- Part of ATPS family of parachutes
- Currently in fielding
- 21,623 systems fielded to-date to over 50 DoD Units
- New Sustainment Contract in 1QFY13
 - RFI for QPL: NOV 11



Advanced Emergency Bailout Parachute (AEBP)

- 11 Sep 09: USAF Policy HQ AMC/A3V FCIF 09-10-11 directed removal of BA-18/22 by 4QFY13 from C-130 and C-17 fleets as aircraft weight reduction initiative
- Sept 11: Army adopted USN ORD for USN Thin Pack Parachute
- USN Thin Pack provides a state-of-the-art, safe alternative to BA-18 for safety personnel during jumps
- AEBP consists of container/harness assembly, vacuum sealed canopy, pilot parachute and ripcord assembly.

Performance Specs:

300 lb max
17.0 lbs
3.0 in
14 yrs
5.5 yrs

Milestones:

MAY 12 – Contract Award OCT12 – FUE SEP 13 – IOC DEC 13 – FOC

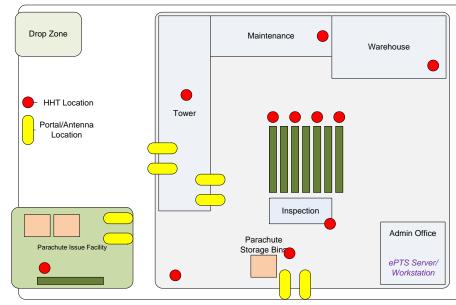




Passive Radio Frequency Identification Enhanced Parachute Tracking System (pRFID-ePTS)



- pRFID-ePTS tracks personnel parachutes through their life cycle from being placed into service, through packing, transportation to the issue/storage facility, and return to the pack facility
- Automated system improves parachute re-pack, management, use monitoring, accountability, clearing of hand receipts and accident investigation
- Current effort will install a turnkey system at the 82nd ABN DIV Parachute Pack Facility
- Capable of supporting both training and deployment operations for units deploying to OIF, OEF, or other theaters of operation
- Lacks validated requirement to sustain effort or to expand Army-Wide
- Milestones
 - AUG 11 Contract Award
 - FEB 12 HW/SW Integration
 - FEB 12 Development of Test Plans
 - MAY 12 Install HW/SW; Validation Test; IKPT
 - JUN 12 Field Testing; Turn over by 29 JUN 12



Modular Airborne Weapons Case (MAWC)

Ergenter

- XVIII ABN Corps identified capability gap jumping modern weapon systems w/ M-1950 weapons case
 - Provide paratroopers an advanced tactical weapons carrier for use during airborne operations
 - Padded, durable, light weight and adjustable allowing greater flexibility and decreased weapon systems damage
 - Small and large versions
- Submitted and approved as SEP effort
 - CPD in worldwide staffing DEC 11 (ECD 1QFY13)
- RFP Released 20 JAN 12
 - Responses due 19 FEB 12
 - Proposal Evaluation and Down Select MAR 12
 - Contract Award APR 12
 - Operational Testing JUL 12
 - User Evaluations AUG-SEP 12

Concept case



Legacy M-1950 case







Military Free Fall Advanced Ram Air Parachute (MFF ARAPS)

- Material Development Decision: MAR 11
- MSB: MAR 11
- Request For Proposal: MAR 11
- Design Validation Testing: JUN-JUL 11
- Contract Award: SEP 11
- Requirements:
 - Provide increased jumper exit weight up to 450Lbs
 - Capable of Military Free Fall and Static Line deployment >30,000 ft
 - Reduced opening shock at exit altitude
 - Electronic Automatic Activation Device (EAAD) compatible
 - Increased stand-off capability







- Developmental Testing on going (began JAN 12)
 - Mannequin drops and live jumps in both Static Line and MFF configurations
 - A total of 229 jumps scheduled
- Operational Testing scheduled to start 1QFY13
 - Prove system reliability and determine system suitability and effectiveness for operations
 - A total of 460 jumps scheduled
- MSC: scheduled for 2QFY14
- AAO: 2,378 systems

Parachutist Oxygen System



- Parachutist Oxygen Mask (POM)
 - Currently in production and fielding
 - Approx 73% of Masks fielded to date
 - Each Unit is fielded one test stand
 - Fielding should be complete by May 12
- Next step: Address 35,000-ft capability
 - Testing new high pressure bottles
 - O2 consumption study to determine if current system can provide sufficient oxygen when conducting HAHO Operations
 - Looking into new concepts for wearable O2 supply vessels as well as O2 generation and re-breather technologies



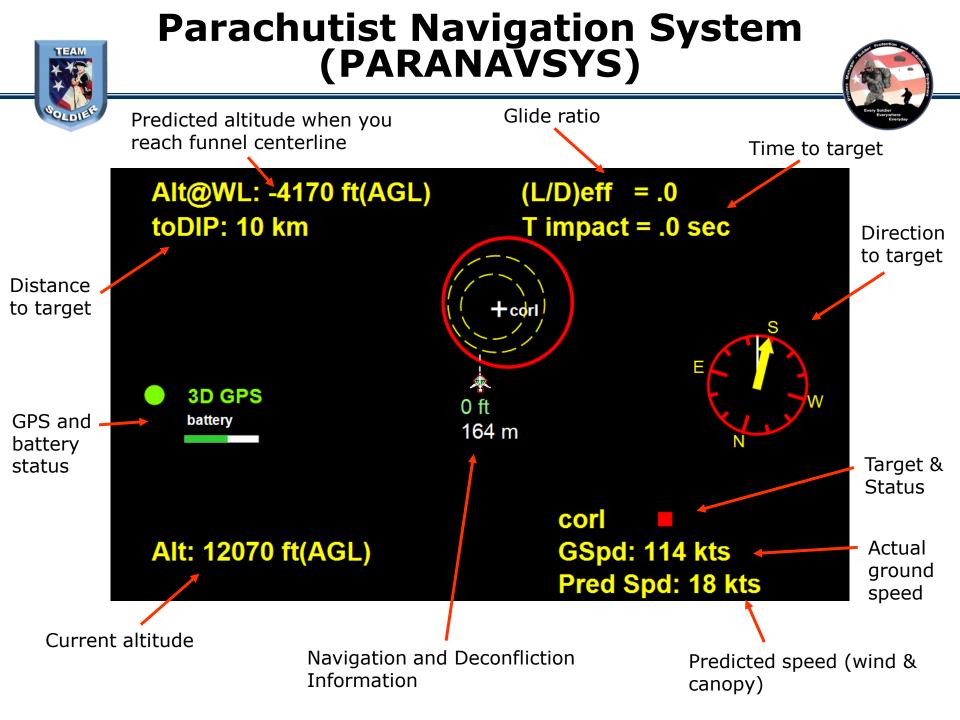


Parachutist Navigation System (PARANAVSYS)





- PARANAVSYS is a Military Freefall (MFF) navigation system capable of providing continuous access to mission critical information throughout HALO/HAHO operations
- System will function regardless of visibility or physical constraints providing mission planning capability and GPS guided navigation
 - Reliable & Easy to Use; Accurate to within 100 ft; SAASM and Net-Centric/Net-Ready Compliant
 - Includes Jumpmaster (JM) screen to identify release point (RP) from inside aircraft, and Navigation screen to direct parachutist to drop zone (DZ) once under canopy
 - Planned interoperability with JPADS/Mission Planner
 - Additional planned features include jumper and cargo asset deconfliction, ability to follow and/or redirect cargo to alternate DZs
 - Software & User Interface are the key elements; system should be platform independent
- Program continues to experience delays due to CPD staffing and approval process







Questions?

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