



PROGRAM EXECUTIVE OFFICE SOLDIER

THE BEST
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Product Manager Clothing Individual Equipment

Personnel Airdrop Systems Team

PROGRAM STATUS UPDATE TO PIA

12 September 2008

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Agenda

- Purpose
- Acquisition Process
- Advanced Tactical Parachute System
- Berry Amendment Issue
- Military Free Fall Products
- QA for Personnel Airdrop Items



Purpose

To provide members of the PIA an update on the status of PM CIE Personnel Airdrop Team's product development efforts



Acquisition Process

- Requirements are developed by proponent
- PM-CIE receives requirements and initiates programs
- Acquisition strategy is developed based upon:
 - Requirements
 - Technology maturity
 - Life Cycle Costs and Joint Interoperability
- Requirements are addressed through:
 - Modified Commercial-Off-The-Shelf (COTS) products
 - Developmental programs
 - Technology Insertion/Product Upgrades



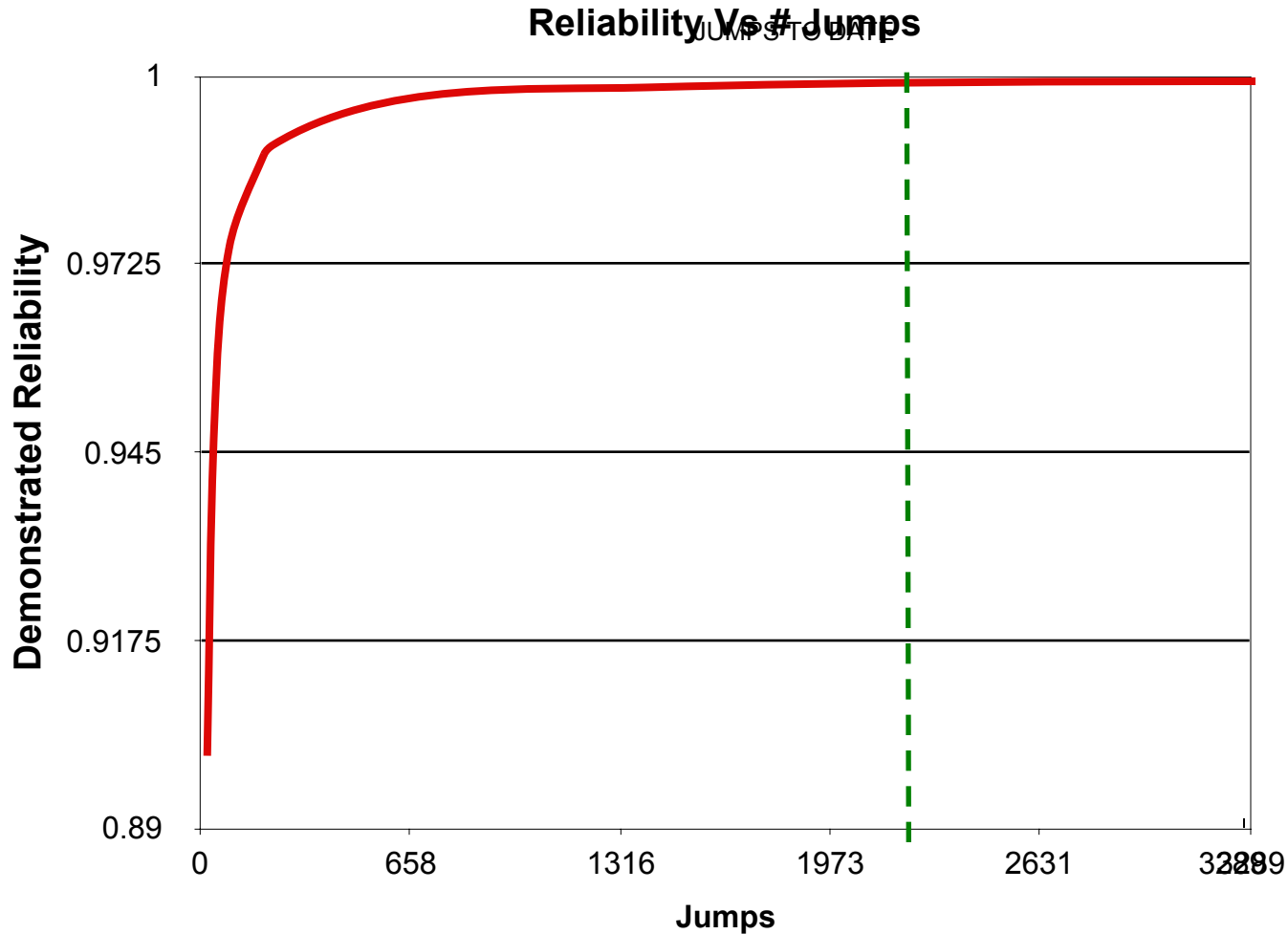
T-11 Operational Testing

- Feb – Oct 08 at Ft. Bragg, NC
- 3,289 total Jumps will be conducted during OT to meet the required reliability of .9993 at 90% confidence
 - 2,241 OT jumps completed to date (956 with combat equipment)
 - Currently at .9990 at 90% confidence
- One 3-ship C-17 mission successfully completed
 - No interactions or issues with C-17 Vortices
 - Results from model show lower C-17 Wing Vortex encounter rate than T-10
 - Completes C-17 multi-ship testing
- Two Multi-ship C-130 missions successfully completed
- High Altitude jumps completed





T-11 Demonstrated Reliability



Jumps	Rel @ 90%
22	0.9006
45	0.9501
91	0.9750
200	0.9886
229	0.9900
400	0.9943
600	0.9962
800	0.9971
1000	0.9977
1200	0.9981
1400	0.9984
1600	0.9986
1800	0.9987
1900	0.9988
2254	0.9990
2400	0.9990
2600	0.9991
2800	0.9992
3000	0.9992
3289	0.9993



T-11 Acquisition

- LRIP: Approved 8 JUL 08
 - LRIP option in current T-11 contract exercised on 18 JUL 08 for 5,200 systems
 - LRIP systems will be used for initial fielding

- FRP Decision: 2QFY09
 - Contingent upon successful OT completion and supporting documentation - OT Report, Safety Confirmation (DTC), and Safety Evaluation Report (AEC)

- Fielding
 - FUE: 3QFY09
 - 3 BTN 75th RGR RGT - Fort Benning, GA
 - PM-SEQ NET Team trained and ready to support



T-11 QPL Process

- Quality Products List (QPL)
 - Sources Sought Synopsis updated Jul 08
 - TDP Update to interested offerors sent on 4 Apr 08
 - Interested manufacturers must request TDP and sign NDAs
 - Manufacturers submit sample on their own initiative
 - Approved MC-6 contractors need only submit T-11 Main Assembly
 - Acceptance based upon contractors' written proposal and approval of QPL sample
 - First come, first served for evaluation
 - QPL to support forecasted contract award in Apr 09

- Pre-Production Review
 - First session held in Feb 07
 - Second session held in Jun 08



MC-6 Acquisition

- MC-6 Fielding
 - Fielding to resume in 2QFY09
 - Depends on resolution of Berry Amendment Issue
- MC-6 MWO
 - MWO Instructions have been published by TACOM
 - MWO application initiated at Ft. Lewis
 - Delivery of MWO kits on time to support schedule
 - MWO on track to be completed by DEC 08



Berry Amendment Issue

- 25 JUL – Primes notify the Sec Army and request Domestic Non-Availability Determination for anti-inversion netting
- 18 AUG – PM begins staffing DNAD packet and submits impact statement
- 25 AUG – Initial packet endorsed by NSC members and sent to Belvoir for staffing
- 4 SEP – Packet at PEO Soldier for review
- 5 SEP – Packet sent to PARC Aberdeen for review & concurrence



Berry Amendment Issue

- 12 SEP - Domestic Non-Availability Determination (DNAD) packet awaiting PEO signature
- ?? SEP – DNAD will be sent to Secretary of the Army for approval; expect signature w/i 5 working days
- DNAD will be posted to FedBizOps for 7 days after approval
- Gov't & Primes to begin negotiations for considerations after approval
- DNAD will expire JAN 2010



MFF Advanced Ram Air Parachute System (ARAPS)

- System Requirements
 - Commercial Off The Shelf system
 - Provide increased jumper exit weight up to 450Lbs
 - Static Line and MFF capable
 - Reduced opening shock at exit altitude
 - EAAD compatible using 1500ft model
 - Fully adjustable Harness fits the 5 to 95th percentile
- Program initiated MAY 08
- Synopsis published AUG 08





Electronic Automatic Activation Device (EAAD)



- Fielded EAADs 1100 systems
- Modification at DDPS continues for fielded systems and Depot assets to include Class IX
- Full Operational Capability Mar 09



Parachutist Oxygen Mask (POM)

The POM will:

- ✓ Replace current MBU-12P mask
- ✓ Provide the MFF parachutist with a safer, more dependable method of receiving supplemental oxygen up to 35,000-ft
- ✓ Use a low profile mask with replaceable regulator side-mounted hose with quick disconnect fittings
- ✓ Be compatible with ASFS and PHAOS legacy bailout bottles & consoles



Developmental Testing

- Started 29 May 08; test was stopped due to jumper illness.
- Ensuing investigation and testing (Altitude chamber to 35K-ft, Vertical Wind tunnel, live jump testing) of affected masks showed no evidence that masks were responsible.
- DT re-start 8-19 Sep 08

Operational Testing

- OTRR II conducted
- Scheduled to start 27 Oct 08 and continue through Jan 09

MS C Apr 08

FUE 1Q10





Military Freefall Navigation Aid (NAVAID)

- System Description/Requirements
 - GPS-based Navigation System
 - Options include both Helmet and Chest mounted systems
 - Reliable and easy to use, integrated with JPADS (Joint Precision Aerial Delivery System) for Mission Planning
 - Military SAASM GPS (Fielding Requirement)
 - Lightweight, Clear Display (Screen or Goggle-Mounted) with no interference to User

- Current Program Status (September 08)
 - Waiting for CDD Approval
 - Requirements Finalization and USASOC Staffing
 - MS B scheduled for 3Q FY09
 - Technology Assessment FY08 and 1QFY09
 - Test Activities
 - Design Validation: 1Q- 3Q FY10
 - DT/OT: 3Q FY10 – 4Q FY11
 - FUE by 1Q FY 13





Future MFF Programs

- New connector links for MFF school
- Improved D-Bags for the MC-4
- ACH with oxygen
- Digital Altimeters
- Plug and play altimeter chambers
- EAAD calibration station
- Increased pressure Bailout Bottles systems
- High Glide Parachute
- Tandem system
- Small Business Research Initiatives (SBRI)
 - night vision enhancement,
 - modeling simulation for MFF
 - canopy flight simulator



QA for Personnel Airdrop Items

- Dealing with life supporting systems
- QA is an integral part of the process
- Continue visits to facilities during production
 - ISO audits have begun
 - Conduct Product and Process Reviews
 - Require Supporting Documentation
- Assist in Problem Solving
 - Keep lines of communication open
- Bottom line: safe, Berry Compliant, quality products for the airborne Soldier



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