Agenda

- Purpose
- PEO Soldier Organization
- Capitalizing on Industry/Government Partnering
- PM CIE Solutions
  - Near Term Opportunities for PIA Members
- Developmental Efforts
  - Near Term Opportunities for PIA Members
- Technology Inserts
Purpose

To provide interested members of the Parachute Industry Association an overview of PM CIE near-term initiatives and product developments within Personnel Airdrop
Information Sharing
- Industry is far ahead of the military with respect to the design of the RAM Air Parachutes
- Better Modeling and Simulation

Near Term Opportunities (2007-2009)
- Military Freefall Developments
- MC-6 Production
- T-11 Production

Future orders now have predictability
- MC-6 production began in 2005
- T-11 production expected to begin 2008
• Once requirements are received by PM CIE
  - Acquisition process begins
  - Acquisition strategy is based on:
    ▪ Requirements driven
    ▪ Technology maturity
    ▪ Life Cycle Costs and Joint Interoperability

• Approaches available to find solutions to a requirement
  - Modified Commercial-Off-The-Shelf (COTS) products
  - Developmental Programs
  - Technology Insertion/Product Upgrades
Modified COTS

- **Maneuverable Canopy – 6 (MC-6)**
  - Brings together a commercial product (SF-10A main canopy) and Government products (ATPS reserve/harness)
  - LRIP option awarded in 2005
  - Full Rate Production Contracts awarded on 21 Apr 06
  - One-for-one Replacement for MC1-1 Series
  - Replacement of approximately 19,000 systems (2006-2012)

- **Special Ops Ram Air Parachute System (SOARAPS)**
  - Use commercially available main parachutes and container systems capable of meeting Aerial Infiltration requirements
  - Market Research completed in Jul 06
Near Term Opportunities

- New Ram Air Parachute System Requirements
  - Must provide for increased jumper exit weight (up to 450 lbs)
  - Static Line and MFF capable (either over the shoulder ripcord or bottom of container hand deployed)
  - Provide a lift to drag ratio of 3 to 1
  - Hybrid main canopy design
  - Reduced opening shock at exit altitude
  - Must be EAAD compatible using 1500 ft model
  - Full adjustable harness that will fit the 5th to 95th percentile individual
  - Provide equipment attaching points
  - Compatible with the High Glide parachute system
  - Compatible with bail out oxygen systems
  - Improved flight characteristics and landings
  - Operation altitude ranges from 3,500 ft to 25,000 ft MSL
Near Term Opportunities

- Design Validation / User Evaluation Occurs Sep – Dec 06
  - Currently planning to validate four systems
- Request for Proposal anticipated Dec 06
  - Test prototypes and production options
- Testing anticipated Jun 07 until complete
- Full rate production anticipated Mar 09 (2,000 systems)
ATPS T-11
- Length of project demonstrates Army’s commitment to replace T-10/MIRPS
- Testing completed in FY 07
- Production to start in FY 08
- One-for-one replace for T-10 series
- Replacement of approximately 52,000 systems
- QPL Sources Sought Synopsis 1QFY07
- Operational testing from Jan – Aug 07
- Full Rate Production Decision anticipated Dec 07
- Contract award anticipated Jan 08
Near Term Opportunities

- Military Freefall Navigation Aid
  - Small Business Innovation Research (SBIR) continues in 2007
  - System Development focus is on software and user interface
Technology Insertion

- **EAAD – Soldier Enhancement Project (SEP)**
  - Military variant of a commercially available Automatic Opening Device
  - Testing and Procedure Validation completed in Apr 06
  - Full Rate Production Decision anticipated Sep 06
  - Anticipate purchase of 1,615 systems in FY 06 – FY 09

- **Parachutist’s Oxygen System**

- **Upgrade of current oxygen system to focus on jumper safety and joint interoperability**
  - R&D efforts take place in 2007

- **Technology exists in commercial market place for improvement of all personnel airdrop systems**
  - Available Commercial Products
  - Leverage Modeling and Simulation Capabilities
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