Tactical Missile Demilitarization Program and the Environment
Tactical Missile Demil Execution

- ATCMS
- Stinger
- TOW
- MLRS
- PATRIOT
Mission: Cost Effectively Demilitarize Excess, Obsolete, and Unserviceable Army Missiles with Minimal Environmental Impact Utilizing Resource, Recovery, and Recycling (R3) Methods to the Greatest Extent Possible

PEO Missiles and Space PMOs
- Design for Demil
- Identify Demil Alternatives
  - SLEP / Remanufacture
  - Reuse
  - FMS
  - Training
- Participate on Demil IPT
  - Identify Requirements
  - Integrate into Acquisition Strategy

AMCOM G-3
- Develop Execution Strategies
- Integrate / Prioritize
- Develop Funding Requirements
- Execute
Aging Stockpile Is A Nationwide Challenge

- Over 150K Missiles & Components Obsolete or Excess Today
- Current Projections Double That Number by 2015
- What is the Most Cost Effective Plan of Attack?
Attacking the Stockpile

Total Missile Stockpile

SLEP - REMANUFACTURE
RE-USE
TRAINING
FMS SALES & GIVE-AWAYS

DISPOSITION

Quantify

AMCOM Execution Strategy

- Demil Small Quantity/Low Value Systems by OB/OD
- Closed Disposal/R3 of TOW Missiles Utilizing the Missile Recycling Center (ADMC)
- Identify Additional Closed Disposal/R3 Technology Alternatives for “Full Rate Demil”
  - Flexible for Multiple Variants
  - Adequate Throughput
  - Forward Looking – Anticipates Environmental Issues

Missile Demil Requirements

- Requirements
- Ending Stockpile

End Stockpile

Requirements

Attacking the Stockpile

Total Missile Stockpile

SLEP - REMANUFACTURE
RE-USE
TRAINING
FMS SALES & GIVE-AWAYS

DISPOSITION

Quantify

AMCOM Execution Strategy

- Demil Small Quantity/Low Value Systems by OB/OD
- Closed Disposal/R3 of TOW Missiles Utilizing the Missile Recycling Center (ADMC)
- Identify Additional Closed Disposal/R3 Technology Alternatives for “Full Rate Demil”
  - Flexible for Multiple Variants
  - Adequate Throughput
  - Forward Looking – Anticipates Environmental Issues

Missile Demil Requirements

- Requirements
- Ending Stockpile

End Stockpile

Requirements

Missile Recycling Center
Fully Integrated Operation

**Building 381**
- **Hardware Decontamination Module**
  - Decontaminates Hardware Components

**Building 65**
- **Slurry Explosive Module**
  - Process Low Value Energetics Into Commercial Blasting Explosives
- **Energetics Processing Module**
  - Recover High Value Energetics From Propellant and Warhead Feedstocks

**Horizontal Disassembly Module**
- Disassemble, Missile, Motor Propellants Removal / Milling, Warhead Removal / Milling

**Energetics Processing Module**
- Recover High Value Energetics From Propellant and Warhead Feedstocks
Missile Recycling Center Capability

- Missile Recycling Center (MRC) Provides Safe Disposition of Medium Sized Tactical Missiles

- Environmentally Superior Alternative to Traditional Destruction Processes
  - Encompasses Entire Missile
  - Reconstitutes Propellant and Warhead Energetics
  - Maximizes Reuse / Recycle of Recovered Material

- Fully Operational by FY07

- MRC Utilizes a Total R3 Technology Approach That Can Be Adapted for Use on the Vast Majority of the Missiles in The DoD Inventory
Areas of Concern

- **The Future of Ammonium Perchlorate**
  - Regulations Are Getting Tighter
  - MLRS Stockpile at ADMC Alone Will Create Over 8,000 Tons of AP
  - Initial Planning Called for Reuse of Material – Will This Still Be Valid?
  - If Not, What Are the Alternatives?

- **What Additional Compounds Will We Produce That Are an Environmental Concern?**

- **Developing Flexible Tooling and Facilities**
  - AMCOM Currently Responsible for 20 Different Missile Systems & Variants
  - Too Costly to Development “One Off” Solutions for Each
  - Must Be Able to Adapt to Newly Developed and Evolving Systems
Path Ahead

- Continue Execution of Environmentally Responsible Demilitarization Program
- Emphasize Closed Disposal/R3 Technologies
- Focus on Demilitarization Options That Can Be Utilized Across All Families of Missiles
- Maximize Return on Investment/Reduce Per Missile Costs
Questions?