PM Acquisition Panel: PD Joint Services

Presented at the

Munitions Executive Summit

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Presented By:
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PD Joint Services
Five Primary Responsibilities

SINGLE MANAGER CONVENTIONAL AMMUNITION (SMCA) RESPONSIBILITIES:
- Coordinate and integrate the DoD’s SMCA activities on behalf of PEO Ammunition
- Manage transition of Services’ conventional ammo items into the SMCA account
- Annual survey measures performance

Cathy Heslin (Business Division Chief)
Ian Valentine & Doug Lincoln (SMCA & Service Integration)

AMMUNITION INDUSTRIAL BASE:
- Manage Ammunition Industrial Base modernization
- Section 806 implementation & Single Point Failure (SPF) Program
- Executing Armament Reloading & Manufacturing Support (ARMS) efforts
- Formulate Ammunition Industrial Base strategic planning

Mr. Kwok Cheung - Industrial Base Division Chief

TECHNOLOGY AND PROTOTYPING:
- Technology solutions for the Ammunition Industrial Base addressing:
  - Single Points of Failure
  - Cost reduction efforts
  - Production efficiencies

Ms. Kerry Henry - Technology & Prototyping Division Chief

PRODUCT MANAGER DEMILITARIZATION:
- Demolition of all DoD conventional ammunition
- Demolition research & development projects
- Ammunition Punisher Equipment (APE)

Mr. Larry Gibbs - Product Manager Demil

AMMUNITION LOGISTICS:
- Manage US Army ammunition logistics R&D efforts
- Develop/synchronize joint ammunition logistics programs with other Services

Mr. Al Galonski - Ammo Logistics Division Chief
Ammunition Industrial Base Overview

**Historical Background**

Army Ammo Organic Facilities Over Time

- 60
- 35
- 20
- 15

- 1945
- 1950
- 1955
- 1960
- 1965
- 1970
- 1975
- 1980
- 1985
- 1990
- 1995
- 2000
- 2005
- 2010
- 2015
- 2020

**Post 05 BRAC Industrial Base**

- **Commercial Suppliers:** Principal Source of Ammunition:
  - 200+ Key Commercial Sources
- **Supply Chain State:**
  - 33 Critical Single Point Failures
    - 19 Mitigated
- **GOCO Army Ammunition Plants (AAPs):**
  - 6 AAPs (Radford, Lake City, Holston, Scranton, Iowa, Milan,)
  - 1 Facility @ Rock Island Arsenal (Riverbank AAP BRAC Capability)
  - Modernization Funded via PAA
- **GOGO Ammunition Installations**
  - 3 Army Multi-Mission Installations (Production and Logistics): Crane, McAlester, Pine Bluff
  - Modernization Funded via MILCON and CIP
- **5 Logistics/Depots:** Tooele, Hawthorne (GOCO), Blue Grass, Anniston Munitions Center (MC), Letterkenny MC

**Cyclical GOCO Modernization Funding**

- Typical Annual Funding Distribution (Ammo)
  - Industry (75%)
  - GOCO (20%)
  - GOGO (5%)

- PAA- Procurement of Ammunition, Army
- MCA- Military Construction, Army
- CIP- Capital Investment Program
## GOCO AAP Capability and Modernization Funding

### FY03-10 Funding Totals ($M) Past Investment

<table>
<thead>
<tr>
<th>GOCO Facility</th>
<th>Core Processes</th>
<th>FY03-10 Funding Totals ($M) Past Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radford (VA)</td>
<td>Propellant Manufacturing (Rocket, Artillery, Tank, Med Cal; NC for all Propellants)</td>
<td>$420.003</td>
</tr>
<tr>
<td>Lake City (MO)</td>
<td>Small Caliber</td>
<td>$301.242</td>
</tr>
<tr>
<td>Holston (TN)</td>
<td>Explosives - HMX, RDX</td>
<td>$287.420</td>
</tr>
<tr>
<td>Scranton (PA)</td>
<td>Large Caliber Metal Parts - Artillery/Mortars</td>
<td>$58.664</td>
</tr>
<tr>
<td>Iowa (IA)</td>
<td>Load, Assemble &amp; Pack (LAP) - Tank/Artillery, Warheads</td>
<td>$95.032</td>
</tr>
<tr>
<td>Milan (TN)</td>
<td>LAP - Mortars, 40mm Cartridges; C-4 Extrusion</td>
<td>$20.362</td>
</tr>
<tr>
<td>Engineering Support</td>
<td>Engineering Support/ATEC</td>
<td>$26.807</td>
</tr>
</tbody>
</table>

### FY11-15 Critical Requirements ($M)

<table>
<thead>
<tr>
<th>Facility</th>
<th>Requirement</th>
<th>FY11-15 Critical Requirements ($M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFAAP</td>
<td>EAP</td>
<td>$14%</td>
</tr>
<tr>
<td>LCAAP</td>
<td>HSAAP</td>
<td>$60%</td>
</tr>
<tr>
<td>SCAAP</td>
<td>VAA</td>
<td>$2%</td>
</tr>
<tr>
<td>IAAAP</td>
<td>Various</td>
<td>$3%</td>
</tr>
<tr>
<td>MLAAP</td>
<td></td>
<td>$2%</td>
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### TOTAL

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<td>----------------------------------------------</td>
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<td>TOTAL</td>
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</table>

159 Ongoing Modernization Projects

FY11 Funding

1. $144.4M
Modernization in Support of the Warfighter

**Radford Army Ammunition Plant**

*Nitric Acid Concentrator/Sulfuric Acid Concentrator*  
($110M project)

**Benefits**
- The NAC/SAC Concentrator provides strong nitric acid (SNA) and strong sulfuric acid (SSA) for the production of Nitrocellulose (NC) - a critical component for many munitions
- Minimizes the likelihood of production interruptions by the replacement of the previous 30 year old NAC/SAC
- Reduces cost of operations: less labor, less energy consumption, less required maintenance

*Project completed Sep 29, 2010*

**Holston Army Ammunition Plant**

*Area A to B Consolidation*  
($142M project)

**Benefits**
- Modernizes the production of critical Acetic Acid and Acetic Anhydride
- Eliminates security/safety/environmental risks associated with the current 7 mile long pipeline and rail
- Eliminates current challenges of obtaining replacement parts for facility/equipment built and installed during WWII

*Project Initiated May 2009 with completion scheduled by Dec 2013*

**Scranton Army Ammunition Plant**

*Rotary Furnace Modernization*  
($4M project)

**Benefits**
- The modernized rotary furnace will maintain critical production capability of large-caliber projectile metal parts (M795, M107, M804, M485, M110)
- Incorporates modernized, automated and highly efficient process, utilizing proven advanced technologies
- Reduces cost of operations: less labor, less energy consumption, less required maintenance and overcomes part obsolescence issues

*Project completed December 2010*

**Lake City Army Ammunition Plant**

*Occupational Safety & Health Administration Machine Guarding*  
(Phase I of project = $3M)

**Benefits**
- Brings Small Caliber machinery and machine guarding into compliance with current OSHA regulations
- Reduce the likelihood of production injuries
- Modernize critical legacy production equipment to comply with current regulations and laws

*Phase I complete - 200 Machines modernized to meet OSHA compliance*
Demilitarization Status

Addition Influences
- Cluster Munitions / Landmines, WRSA-K, Aging Cold War Stocks, PIPs

Reversing the Trend
- Maximum use of low cost facilities / processes
- Establish production based thinking
- Defend against rising additions
- Reduce secondary cost expenditures (transportation, support, etc)
- Average demil over last five years is 58K tons

Demil Stockpile
(Conventional Ammo + Missiles)

Demil Additions
(Conventional Ammo + Missiles)

Demil Funding (Pres Bud 2011)
Challenges

• Implementing high volume of AAP modernization projects without disrupting production
• Identifying innovative Demil Solutions to increase through-put
• Supporting analysis of Anniston Chemical Destruction Facility Reuse Initiative for conventional ammunition demilitarization
• Identify ways to improve delivery of ammunition (especially packaging solutions) to our customers
• Managing supply chain for a “soft landing”
Backup
MISSION STATEMENT:
Execute life cycle management responsibilities for the Single Manager for Conventional Ammunition (SMCA) in support of the Industrial Base, Demilitarization programs, and Ammunition Logistics R&D.

Project Director Joint Services

PD Joint Services

PEO Ammo

PD Joint Services

ASA(ALT) DASC

J. Risner

SMCA & Service Integration

I. Valentine
D. Lincoln

PM Demil

L. Gibbs

ARMS

L. Franz

JMC Demil/APE

R. Fuller

AMCOM Demil

T. Bryson (Actg)

Defense Ammo Ctr

T. Nordquist

ARDEC - Demil

R. Goldstein

AMRDEC - Demi.

J. Lee

Business Management

C. Heslin

Joint Services / JOCG Integration

JO CG EXCOM

M. Haring

Joint Services

JO CG

HQs JMC

Acquisition/Production

G. O’Connor

AMMO Logistics

A. Galonski

Technology & Prototyping

K. Henry

Support & Sustainment

J. Uribe

LRED Future Concepts

Current as of 6 Jan 2011
Updates since last MES in red

Color Definitions

PD JS Core
RDECOM
JMC
JO CG
AMCOM
DAC

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