26 February 2014
Munitions Executive Summit

PM Panel Discussion

Presented by:
Jim Shields
Munitions Readiness Report

- 30 of 42 Ammo Groups rated Red or Black!
- 93% of PEO Ammo Groups Rated Green
- 7% Amber
- No Red

TODAY: Sep 13

TOMORROW: Pushing Forward to Not Repeat History

DISTRIBUTION STATEMENT A: Approved for Public Release
Program Executive Office Ammunition Organization

**Project Manager**
Combat Ammunition Systems
- Indirect Fire Munitions and Mortar Weapon Systems
  - Excalibur
  - Guided Precision Munitions & Mortar Systems

**Project Manager**
Close Combat Systems
- Networked Munitions, Force Application Systems, Explosive Hazard, and Countermine
  - Counter Explosive Hazard
  - Area Denial
  - Combat Systems
  - Support Munitions

**Project Director**
Joint Services
- Demilitarization
- Ammunition Industrial Base
- Ammunition Logistics
- Technology and Prototyping

**O/EDCA**
Executive Director
Conventional Ammunition
- SMCA Assessment

**Chief of Staff**
- Systems Acquisition
- Business Management
- Human Resources
- International
- CIO
- S&T

**Project Manager**
Towed Artillery Systems
Support Fires for Maneuver forces
- M777A2 Lightweight 155mm Howitzer
- M119A3 105mm Howitzer Digitization

**Project Manager**
Maneuver Ammunition Systems
Direct Fire Munitions
- Large, Small, Medium and Large Caliber
- Non-Standard Ammunition

**Project Director**
Joint Products
- Air Force and Navy Bombs
- Navy Deck Gun Ammo
- Energetics
- CAD PAD

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A world class organization delivering the most capable and affordable ammunition, weapons and counter IED products to the Joint Warfighter as efficiently as possible.

Single Manager for Conventional Ammunition
Ammunition Industrial Base Management Approach

**Policy & Statute**
- DODD 5160.65, SMCA; DODI 5160.68 SMCA
- AR700-90 Army Industrial Base Process
- Public Law 105-261, Section 806
  - Authority to Limit Competition to National Technology and Industrial Base (NTIB)
- Defense Industrial Reserve (10 USC 2535)
- DODD 4275.5 Acquisition and Management of Industrial Resources

**Strategy**
- SMCA Industrial Base Strategic Plan
- Industrial Base Considerations in Acquisition Planning
- Modernization and Consolidation
- Lay Away and Maintenance of Inactive Facilities
- GOCO Competitions
- Risk Management/Disaster Recovery Planning
- TAMR / TMR; POM Procurement
- Foreign Military Sales
- Cross Leveling

**Tools**
- SMCA Authorities
- Capability and Capacity Utilization Studies
- Single Point Failure program
- Section 806 Watch List
- IBAT / MSR (Supply Chain Maps, Simulation and Modeling)
- Industrial Committee of Ammunition Producers (ICAP)
- Advanced Planning Brief for Industry (APBI)
- Sector Webinars (in-depth Government to Industry discussions)

**Outcome**
- Effective and Efficient Operations
- Quality Product
- On Time Delivery
- Increased Readiness

**FUTURE INDUSTRIAL BASE**

SMCA - Single Manager for Conventional Ammunition
TAMR – Total Army Munitions Requirements
TMR – Total Munitions Requirements
IBAT – Industrial Base Assessment Tool
MSR – Minimum Sustaining Rate

**Proactive Management of Supply Chain**
Ammunition Industrial Base Overview

- **Commercial Suppliers**: Principal Source of Ammunition:
  - 200+ Key Commercial Sources

- **GOCO Army Ammunition Plants (AAPs)**:
  - 6 AAPs (Radford, Lake City, Holston, Iowa, Milan, Scranton)
  - Quad Cities Cartridge Case Facility at Rock Island Arsenal

- **GOGO Ammunition Installations**:
  - 3 Army Multi-Mission Installations (Production and Logistics): Crane, McAlester, Pine Bluff

- **5 Logistic/Depot Facilities**:
  - Tooele, Hawthorne (GOCO), Blue Grass, Anniston Munitions Center (MC), Letterkenny MC

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**SMCA and FMS Ammunition Buys ($B)**

- Adjusted to $ FY12

- SMCA – Single Manager for Conventional Ammunition
- FMS – Foreign Military Sales

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**Typical (Historical) Annual Procurement Funding Distribution**

- 67% Industry
- 28% GOCO
- 5% GOGO

DISTRIBUTION STATEMENT A: Approved for Public Release
Back-ups
Conventional Ammunition
Fiscal Outlook (FY13-18)

Source: 14 Pres Bud dated Feb 2013
PEO Ammo Focus Areas

**Artillery:** Near-term focus is converting to M-Code GPS, developing an environmentally benign obscurant smoke and developing insensitive munition explosives (IMXs). Mid-term focus is longer range through ammo improvements and greater, cheaper precision. Long-term focus is longer range through weapon upgrades and investigating non-kinetic effects.

**Mortar:** Near-term focus is adding M-Code GPS precision (HEGM), developing an environmentally benign obscurant smoke and developing IMXs. Mid-term focus is longer range through ammo improvements and greater, cheaper precision, as well as light vehicle mounted direct fire mortar (ADIM). Long-term focus is longer range through weapon upgrades.

**Demolitions:** Near-term focus is improving producibility of Modernized Demolition Initiators (MDI) components (i.e., blasting cap) which is already IMX compliant. Mid-term focus is making these components more portable and modular, as well as reducing collateral damage ([Tactical Explosive System (TES) and Next Generation Dismounted Breaching (next gen APOBS)]), and developing more IMX compliant items like the 40 lb Cratering Charge. Long-term focus (similar to CEH) is non-kinetic neutralization of explosives from standoff.

**Flares & Signals:** Near-term focus is defeating increased threats to aircraft as well as environmentally friendly materials; mid-term is defeating advanced aircraft threats, and lighter and more tunable countermeasures (multi-purpose); and long term is fully tunable effects (user selectable).

**Tank Ammo:** Near-term focus is Advanced KE and AMP, mid-term is DU alternates based on the pending DU decision and long-term is guided extended range for advanced targets.

**Small Cal:** Near-term focus is OWL and ADVAP, and mid-term is lighter weight ammo and possibly combined calibers (depending upon the caliber study). Long-term is extended range guided with user tunable effects, “trace” capability in smart sight on the weapon vs. on the round (user tracks trajectory via the sight display vs. watching the actual rounds) and “ammo on demand” where the user has the capability to “produce” the ammo as needed.
**Medium Caliber:** Near-term focus is increased lethality through warhead and round design, and mid-term is extended range (600 meters for low velocity) and guidance, probably using a glide capability and airburst capability. Long-term is collaborative/swarming effects where one “smart” round is fired as the lead and other rounds follow in a “swarm”; these rounds can also be smart enough to disperse at the target if needed to defeat a diverse target. An additional long-term focus is “ammo on demand” where the user has the capability to “produce” the ammo as needed.

**Non-Lethal:** Near-term focus is improvements to the 40mm and 12 ga ammunition (point and crowd disbursing) and solutions for INS (spell out and add to acronym if you use it again), is it incapacitation, neutralization and suppression?. Mid-term focus is more covert and passive marking of targets for future engagement or identification as well as extended range. Long-term focus is integrated lethal and non-lethal effects and non-kinetic engagement.

**Shoulder Launched:** Near-term is development of IAM, mid-term is fielding of IAM and long-term is longer range defeat of advanced targets

**Area Denial:** Near-term focus is on Spider (all increments) with an emphasis on non-lethal capability and remote emplacement. Mid to long term focus is more on FASCAM (Family of Scatterable Mines) – hand emplaced, short range remotely emplaced and long range remotely emplaced. Additional focus is on remote/autonomous emplacement, Ottawa compliance and scalable effects.

**Counter Explosive Hazard (CEH):** Near-term focus is fielding of mounted systems (HMDS) with detection and marking capability, and development of autonomous operations (AMDS). Mid-term focus is greater speed and standoff for detection and marking and lower cost technologies (to possibly replace expensive GPR). Long-term focus is detection and non-kinetic neutralization of explosives from standoff (detecting a PBIED and rendering the IED inert from a distance (via directed energy) vs. pre-detonating it).

**Grenades:** Near-term focus is on benign smoke, IM Compliance, and fuze/primer upgrades and mid to long term is dual use lethal/stun grenade and multi-smoke grenades. Far term is non-kinetic effects and lighter weight.

**Ammunition Demilitarization:** Responsible for conventional ammunition demilitarization for all Services which includes small arms ammo to torpedoes and bombs.
At the End of the Day...

We’re Meeting Joint Warfighter’s Needs!