Ammunition Management
Integrating Acquisition and Logistics

NDIA
Munitions Executive Summit
18 February 2004

BG Paul S. Izzo
Program Executive Officer
Ammunition

BG James W. Rafferty
Commander
Joint Munitions Command
PEO Ammunition Established 2 Years Ago

The Joint Munitions Command and PEO Ammunition Have Establish Clear Lines of Authority and Responsibility.

Ammunition Enterprise Concept Working Well

The Ammunition Enterprise Continues to Engage the Army Staff and Other Services to Ensure Customer Needs and Expectations are Understood

The Ammunition Enterprise has Addressed Critical Needs and is Poised to Focus on Long Term Strategic Challenges

Ammo Performed Well in Current Conflicts, We are Addressing Observations and Lessons learned for Continuous Improvement
PEO Ammunition

BG Paul Izzo  PEO
Mr. Kevin Fahey  DPEO

Close Combat Systems
Mr. Jim Sutton  PM

Combat Ammo Systems - Indirect Fire
COL Nate Sledge  PM

Maneuver Ammo System - Direct Fire
Mr. Bill Sanville  PM

Joint Services
COL Jeff Gwilliam  PM

Demolitions / Non-Lethal

Mortars
Excalibur
Large Caliber
Medium & Small Caliber

Networked Munitions / Munitions / Countermine

Industrial Base
Mr. Matt Zimmerman
APEO Industrial Base

Washington, D.C.
Liaison Team
Ammunition Enterprise

- **Mission:**
  - Single Manager for Conventional Ammunition
  - Life Cycle Acquisition Management of Ammunition

- **Key Objectives:**
  - Unify and Integrate Ammunition Management Under One Single Chain of Command
  - Develop a Unified Munitions Acquisition Strategy
  - Identify and Optimize Key Business Processes
  - Develop an Overarching Industrial Base Strategy (Organic and Commercial)
  - Provide Integrated Supply Chain Management of the Ammunition Production Base
FY 04 PEO Ammo PAA, OPA, WTCV Total

Total: $1.4B
* Other Service Funding=$673M

Source: FY05 BES

PM Combat Ammunition Systems
- Artillery Ammunition
- Artillery Fuze
- Mortar

PM Maneuver Ammunition Systems
- Large Caliber
- Medium Caliber
- Small Caliber

PM Joint Services
- Industrial Base
- Demil
- APE

PM Close Combat Systems
- Mines, Countermines & Demolition

PEO Ammo
FY 04 PEO-Ammo RDTE

Total: $385.5 M

- PM Combat Ammunition Systems: $135.1 M (35%)
- PM Joint Services: $29.0 M (8%)
- PM Maneuver Ammunition Systems: $8.5 M (2%)
- PM Close Combat Systems: $26.8 M (7%)
- PEO Ammo: $186.1 M (48%)

Source: FY05 BES
The Ammunition Enterprise is the Integration of People, Infrastructure and Processes Required for Ammunition Life Cycle Management to Support the Warfighter
Enterprise Management Philosophy

- Promote Best Value Acquisitions
- Utilize Disciplined Processes
- Implement Six Sigma and Lean Design/Production
- Promote Continuous Process Improvement and Technology Insertion
- Promote Commonality and Interoperability
- Promote Spiral or Evolutionary System Development

Put Eyeballs On – “Trust, but Verify”
We cannot solve our problems with the same thinking we used when we created them.

Ammunition Transformation and implementation is dependent upon new technologies, new management skills and new decision making processes.
BLUF: Overall the ammunition performed as advertised or better in the eyes of the armor community.

- “Pretty much anything we fired killed whatever target we shot.”
  SFC Cornell 4-64 AR Master Gunner

- “One story of an M1 engaging a T-72 stopped on the road at about 2000m broadside and popping the turret on it and an adjacent tank.”
  SGT Coultry 3-69 AR
Medium Caliber Ammunition

25mm:
- M919 provided excellent penetration capability versus APCs and trucks.

40mm:
- Soldiers stated the M203 Grenade Launcher and Ammo was lightweight, compact, simple to use and effective firepower.
Small Caliber Ammunition

.50 Cal:
- A large number of soldiers commented that the M2 machine gun is “...the best weapon in the Army.”

7.62mm:
- The 7.62mm machine guns were the most widely used weapons for tanks.
  - “Ammunition and weapon systems performed very well.”

5.56mm:
- Most soldiers considered the M16 weapon series to be very accurate regardless of the version or sighting system.
PM CAS: OEF/OIF
Observation Summary

- Ground Fire SPT was Most Responsive, Most Available, and Most Adaptive
- Preferred munitions: HE(VT), SFMs, & Mortars
- Suppression Still Required for Most Dangerous Targets (MDTs)
- Greater Precision Needed to Enable Friendly Forces to Develop Situations Out of Contact
“SMAW-D Is An Awesome Weapon!”
“My Only Regret Is That We Could Not Carry Enough Of Them!”
– NCO 10th Mountain Division, Oct 03

“Bottom Line is that our new equipment works well and the Non-Lethal Sets kept us from having to kill someone as well.”

LTC Brown, Battalion Commander, Bn 709th (Task Force Falcon Provost Marshall)
Buffalo (MPV)
“B41 was asked to extract 3 people from a mine line, used the new Buffalo, no one was hurt during the extraction”
Richard Rader, ManTech
The Ammunition Enterprise

Joint Munitions Command
# Ammunition Enterprise Responsibilities

Memorandum of Understanding signed 30 Jan 04

## MISSION

<table>
<thead>
<tr>
<th>Lead/Support</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACQUISITION</strong></td>
</tr>
<tr>
<td>RDT &amp; E</td>
</tr>
<tr>
<td>Acquisition Strategy</td>
</tr>
<tr>
<td>Hardware Production</td>
</tr>
<tr>
<td>Components for Renovation (Maint Spt)</td>
</tr>
<tr>
<td>APE (Maint Spt)</td>
</tr>
<tr>
<td>PAA Program / Budget / Receive Funding</td>
</tr>
<tr>
<td>Industrial Base</td>
</tr>
<tr>
<td><strong>LOGISTICS / SUSTAINMENT</strong></td>
</tr>
<tr>
<td>Receipt / Issue</td>
</tr>
<tr>
<td>Storage / Distribution Management</td>
</tr>
<tr>
<td>Inventory / Accountability</td>
</tr>
<tr>
<td>Safety / Security</td>
</tr>
<tr>
<td>Quality Assurance (ASRP / Surveillance)</td>
</tr>
<tr>
<td>Maintenance</td>
</tr>
<tr>
<td>Demilitarization/ Disposal</td>
</tr>
<tr>
<td>Transportation</td>
</tr>
<tr>
<td>OMA Program / Budget / Receive Funding</td>
</tr>
</tbody>
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## Key to Enterprise: Integration and Synchronization
Ammunition Enterprise
Not Just Army... A Joint Collaborative Effort

PEO Ammunition
SMCA Executor
Industrial Base
Acquisition & Procurement
RDT&E
PA Program

Joint Munitions Command
SMCA
Field Operating Agency
Industrial Base
Logistics & Sustainment
Readiness Reporting
OMA Program

JO CG
Oversee & Assess
Plan & Execute
Synchronize & Integrate
Continuous Dialogue

EDCA

Army....The Single Manager for Conventional Ammunition (SMCA)
Collaborative System Environment

Establish IT infrastructure for Ammunition
Interoperable
Integrated
Consistent
Collaborative Environment
Maximum innovation, flexibility and support
Smarter, Smaller, More Lethal, More Accurate, Automation Friendly, Cost Effective
- Vehicles Smaller, Less Storage
- Logistics is Key Element
- Insensitivity is critical

Future Ammunition with State-of-the-Art Technologies
- Precision Engagements
- Extended Range
- Reduced Collateral Damage
- Increased Survivability
- Reduced Logistics Footprint

Maximum Commonality of Munitions
- Anticipate limited quantity of “smart” ammo support by larger quantity of “competent” ammo

Army Cannot Afford All Smart Ammo
Supporting “Competent” Conventional Ammo

Smart Ammo Core
Summary – The Ammunition Enterprise is ...

- Supporting Current Operations/Planning Future
- Improving Ammunition Life-Cycle Practices
- Focused, Well-Trained Workforce
- Leveraging World Class Capabilities & Technologies
- Vital to the development of products for the Future Joint Force