NDIA
Small Arms Systems Symposium

“Enhancing Small Arms Effectiveness in Current and Future Operations”

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Project Manager, Acting

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Equipping US and Allied Warfighters with World Class Direct Fire Combat and Training Ammunition Through Strategic Life Cycle Management
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Dave Rigoglioso

Systems Engineering &
Technology Integration
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Non Standard Ammunition
Ben Harris, Acting

Assistant Product Director
MAJ Brian Souhan
What we do (Our Mission)

We have one purpose – To provide our Warfighters with the best possible ammunition so they can successfully accomplish their mission, whether in training or in combat.

How we do it:

- Provide safe, dependable and high performing products
- Maintain “right” mix of production capability to meet current requirements and allow for future contingencies
- Deliver on time – Support urgent requests
- Get best value for our products (most “bang” for the buck)
- Build Soldier confidence with his or her weapon
- Understand User and their requirements (Soldier as a system)

Everything We Do Supports the Warfighter!
Small Caliber Ammunition

5.56mm, 7.62mm, 9mm, .50 CAL
Medium Caliber Ammunition

- 20mm: M790, M792, M793, PGU23, PGU25, PGU32, M919
- 25mm: M788, M789, MK266, MK268, MK310, PGU14, PGU15, PGU13B
- 30mm: M788, M789, MK266, MK268, MK310, PGU14, PGU15, PGU13B
- 40mm: L60, 40mm
Large Caliber Ammunition

120mm, 105mm Training & Tactical Ammunition
Non-Standard Ammunition (NSA) Mission

The NSA Project Office works with the customer and key stakeholders to establish and execute programs to provide quality non-standard ammunition to Allied nations and other U.S. customers.

Definition – Non-Standard Ammunition
- Not in US Army supply base
- Not type classified or safety certified for use by US Army
- Not produced using technical data packages managed by US Army
## All Services FY11 & 12 Production

<table>
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<tr>
<th></th>
<th>FY11</th>
<th>FY12</th>
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<tbody>
<tr>
<td><strong>Small Caliber</strong></td>
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<tr>
<td>5.56MM</td>
<td>874M</td>
<td>692M</td>
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<tr>
<td>7.62MM</td>
<td>118M</td>
<td>127M</td>
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<tr>
<td>.50 Cal</td>
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<td>68M</td>
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<tr>
<td>9MM</td>
<td>56M</td>
<td>94M</td>
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<td>Shot Shells, Calibers .45, .22, .30</td>
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<td>9.6M</td>
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<td><strong>Medium Caliber</strong></td>
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<tr>
<td>20MM</td>
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<td>40MM Low Velocity</td>
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<td>40MM High Velocity</td>
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<tr>
<td>105MM</td>
<td>4K</td>
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<tr>
<td>120MM Training</td>
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<td>Infantry</td>
<td>115M (YTD)</td>
<td>TBD</td>
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<td>Aviation</td>
<td>1K (YTD)</td>
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<tr>
<td>Tank &amp; Artillery</td>
<td>4K (YTD)</td>
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Small Caliber Ammunition Forecast

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<tr>
<th>Year</th>
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<th>7.62</th>
<th>50 Cal</th>
<th>9mm/other</th>
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<td>646</td>
<td>91</td>
<td>50</td>
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OSD AT&L Efficiencies Implementation

- Aggressive Unit Cost Reduction
  - 5.56mm Enhanced Performance Round: substantial cost decrease resulting in price savings approx $50M beyond projected learning curve in FY12.

- Active Value Engineering Programs (Projected Saving $23M in FY12)
  - Improved and cheaper packaging
  - 40mm pivoting coupling / Mixed Belt

- New cost efficient acquisition strategies
  - Alternate year buys on 25mm
  - Developing competition for items such as 30mm M789

- Promoting competition in RDT&E
  - 120mm M829E4 and AMP
Where are we Going in the Small Caliber Portfolio…

- Preparing for Lake City AAP competition
- Competing a Second Source Contract
- Preparing for new Pistol (other than 9mm) and shotgun contracts
- Fielding 5.56mm EPR and extending to 5.56mm Trace
- Engineering 7.62mm Green using 5.56mm EPR approach
- Robust 6.6 RDT&E Program
- Developing updated requirements documentation on 5.56mm, 7.62mm, .50 Caliber & 40mm ammunition
M855A1 Enhanced Performance Round (EPR)

- Important Information for Unit Leadership
  - NOT just a “green” round
  - You WANT this in the fight!
  - Significant performance improvements in 5.56mm
    - Soft target performance similar to 7.62mm ball
    - Hard target (steel) performance far better than 7.62mm ball
  - Priority of issue directly to combat units
  - Replaces current M855
  - Units not required to re-zero, however it is recommended
  - Fielded – Jun 10
PM-MAS Technology Strategy

Goals:
- Seamless RDT&E Transition Process
- Provide Strategic Input into Technology Strategies of DoD Labs (Specifically ARDEC) and Contractor IRAD Efforts
- Establish Reference Source for Product Managers and Project Manager to Seek Funding for R&D
- Identify Opportunities to Leverage Work Across Product Lines

Support the Warfighter by Pursuing the Right Technologies to Fill Capability Gaps, Reduce Costs, and Improve Safety

Execution:
- Identify and Communicate Gaps
- Develop Sound Business Cases (proposals or Technology Transition Agreement) to Fill Gaps
- Identify Opportunities to Leverage Work Across Product Lines

Develop Traceable and Supportable Strategic Plan Based on Warfighter Needs and Requirements