



US Munitions Industrial Complex – Readiness and Resource Perspectives





The "Theme"

Perspectives on the US Munitions Industrial Complex as they apply to readiness issues from an enterprise viewpoint.



Panel Members



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The Customers Perspective





- Our Service Members have faith in the ammunition and ordnance that they carry and use.
- I never once doubted that when I engaged the enemy, the ammunition that I used was going to be effective and lethal.



The Korengal Valley







SFC Monti Medal Of Honor







Readiness Risks



Our Service Members hold faith they will always receive the ammunition and ordnance they need, on time, every time.

We owe it to our customers to never break that faith.





The Project Management Perspective

Project Manager Maneuver Ammunition Systems

Munitions Executive Summit









-Push to achieve greater competition

- Less Sole Source contracts
- NTIB restrictions still OK
- Opportunities for new sources
- With more competition Good proposals will be key
- -Aggressive auditing by DCAA
 - Auditors are no longer accepting issues as they have in the past
 - Auditing is taking far longer than in the past
 - IB: Needs to listen carefully to the DCAA and pay more attention to detail
- -Risks PM's will be facing:
 - New Sources
 - Changes in contract types
 - Unlimited or Government Purpose Rights





Ammunition Inventories Replenished

- -Stockpiles full and in some cases more than full leading to reduced buys in FY12-17
- -In general look for smaller buys
 - Exceptions: High Priority Items like 30mm M789 & 40mm M430A1
- -Some buys will be made to protect the IB but the IB must change to reflect the new warfighting reality.
 - The Cold War IB is morphing to reflect todays realities.
 - Continuous to Batch Processing
- -Significant improvements in effectiveness, reliability, etc can be reason to build additional rounds. Opportunities exist for improved munitions to fill a new War Reserve requirement



Older Requirements

Old Requirements

- 20-85 Years old and some cases non-existent
- -Leads to inefficiency and in some cases inability to meet mission requirements
- Current requirements don't always require defeat of modern well equipped forces
 - -No modern body armor defeat requirement
 - -Current requirements don't take advantage of current technologies
 - Lightweight cases
- PIPS vice new start R&D programs



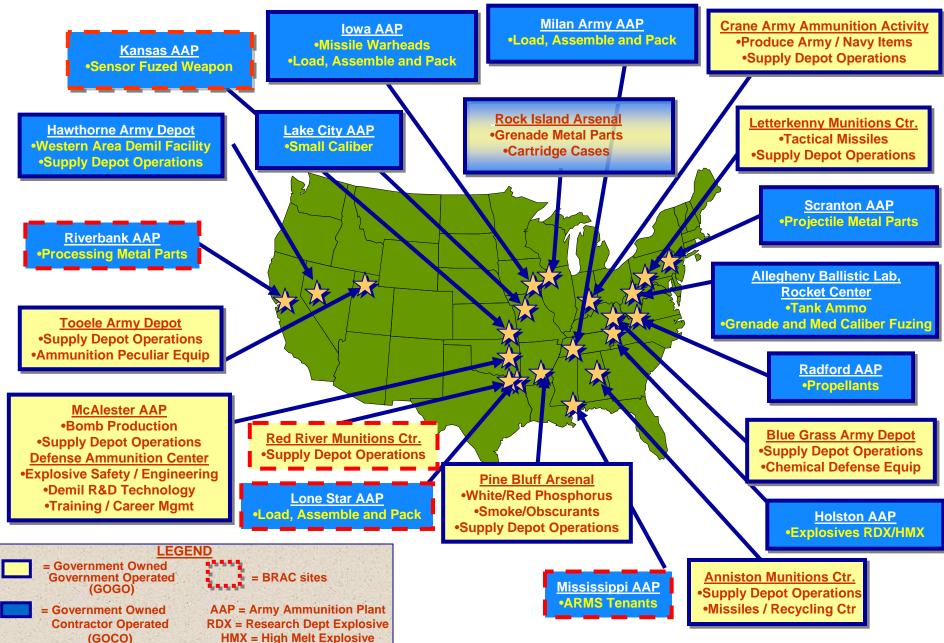


Government Ammunition Industrial Base Perspective

Joint Munitions Command's Mission



Government-Owned Facilities





Government Ammunition Industrial Base



Strategy:

- Continued modernization is critical to meeting National Military Strategy
- A steady state of resourcing avoids catastrophic production failures, supply disruptions, and improves operating efficiencies

Two imperatives:

- Steady-state funding for modernization
- Consistent workload, sufficient to sustain capabilities



Organic Base Logistics Capabilities Ammo Power Projection Platform



Installations

Ammunition Logistics Mission

Storage **Daily outload** Joint Service contingency ammunition outload mission Blue Grass AD 1.8M sq ft 320 containers 450K tons in 16 weeks (approx 45 ships) Support Air Force, Marine Corps, Navy, SOCOM Crane AAA 4.9M sq ft 302 containers training missions Letterkenny MC 1.7M sq ft 111 containers Support 78 Army CONUS training installations **McAlester AAP** 5.2M sq ft 434 containers Store training and War Reserve ammunition 1.8M sq ft 338 containers **Tooele AD** Explosives safety and security No commercial Must be sustained to Logistics Base Facts ammunition Support the National 1,000 ammo magazines logistics capability built in WWII \$10B Military Strategy close to this order replacement cost of magnitude Demil capacity 66k – 136k tons per year Store 1.8M tons Maintain/Renovate training and War Reserve ammunition Unique explosives safety and security requirements **Anniston MC 1.7M sq ft storage** Primarily deep stowage of excess/unserviceable ammo Hawthorne AD 5.6M sq ft storage Total: 22.7M sq ft = 473 Football Fields

Summary

Situation:

- > Critical Capabilities are At-Risk
- > National Military Strategy objectives will be at risk

What We Are Doing For Ourselves:

- Modernizing with available funds
- > Using Lean Six Sigma Principles
 - Competitive Acquisitions
 - Strategic Planning
 - BRAC Implementation
- > Optimizing ammo supply network

What We Need:

- Steady State of Funding to modernize
- Increased Funding for Demilitarization efforts
- Adequate Operations and Maintenance, Army Funding (vice Supplemental)
- Consistent Levels of Ammunition Procurements

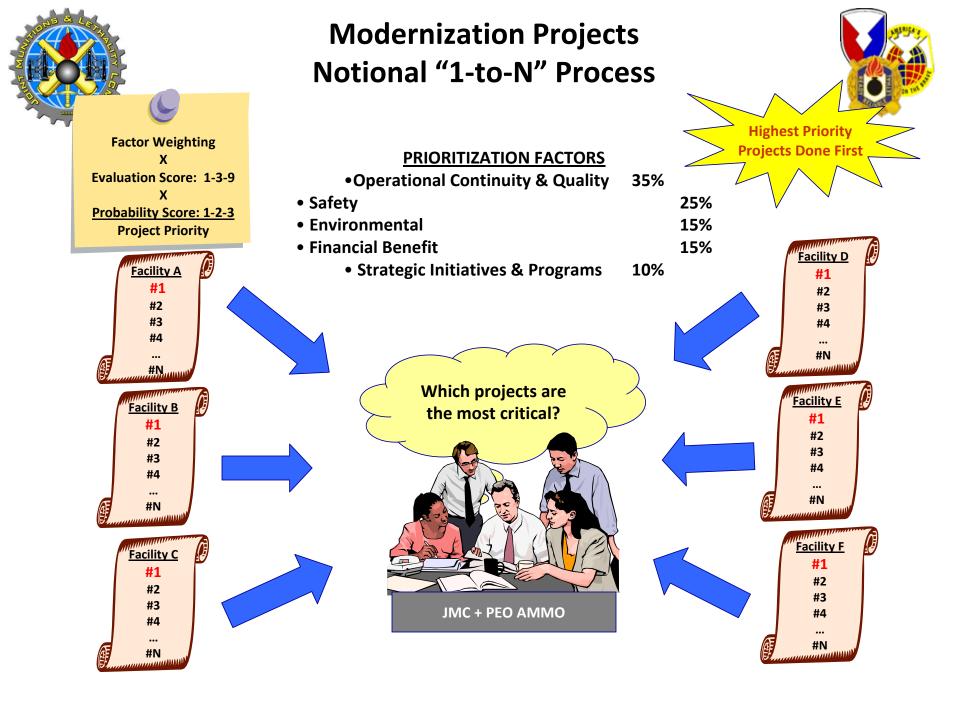
Outcome:

Responsive, Reliable and Efficient Facilities that Provide Quality Ammunition that Meet the Joint Warfighter's Requirements





The Resource Management Perspective





Modernization Example Lake City Army Ammunition Plant 5.56, 7.62 and .50 cal Small Arms Ammo



Output to the Warfighter !!

BEFORE – 400M rounds/yr









\$219.2M funded (FY05-09) Remaining Requirement \$114.1M (FY10-15)

Vintage 1970s equipment Buying replacement parts on Ebay Quality limitations Lack of safety equipment WWII Final Inspection Equipment (Gage and Weigh) Inefficient & unable to meet war fighter requirements







Updated equipment Enhanced quality Safer operations New test/inspection equipment Improved efficiency and capacity





The Civilian Ammunition Base Perspective

2010 Munitions Executive Summit February

U. S. Munitions Industrial Complex - Readiness and Resouce Issues "an industry perspective"

Presented by Paul Heidenreich VP/GM - Esterline Defense Technologies

Readiness and Resource Issues "an industry perspective"

KNOWLEDGE and CAPABILITIES Tribal Knowledge Retention Critical Technical Capability Increased R&D funding Product Improvements FORECASTS

> 2010 blind spot Critical to planning Critical to investing

DATABASE USAGE

IBAT/MSR, etc. Next Step – SMCA budget review Today is better than the 1990's

Better Prepared ICAP, MIBTF, IBAT, MSR, etc. Ammunition Readiness Rating, etc.

Industry/Gov't needs to work together **TEAMWORK/CULTURE**

Ever Vigilant IPTs, Teams What is Next?

FLEXIBILITY

"Monuments" Partnering/JV's, etc. A bridge too far? Long term commitment

BUDGETS, BUDGETS, BUDGETS

201x? – it will happen Soft Landing or Hard Fall? Running out of time





Questions or Comments?