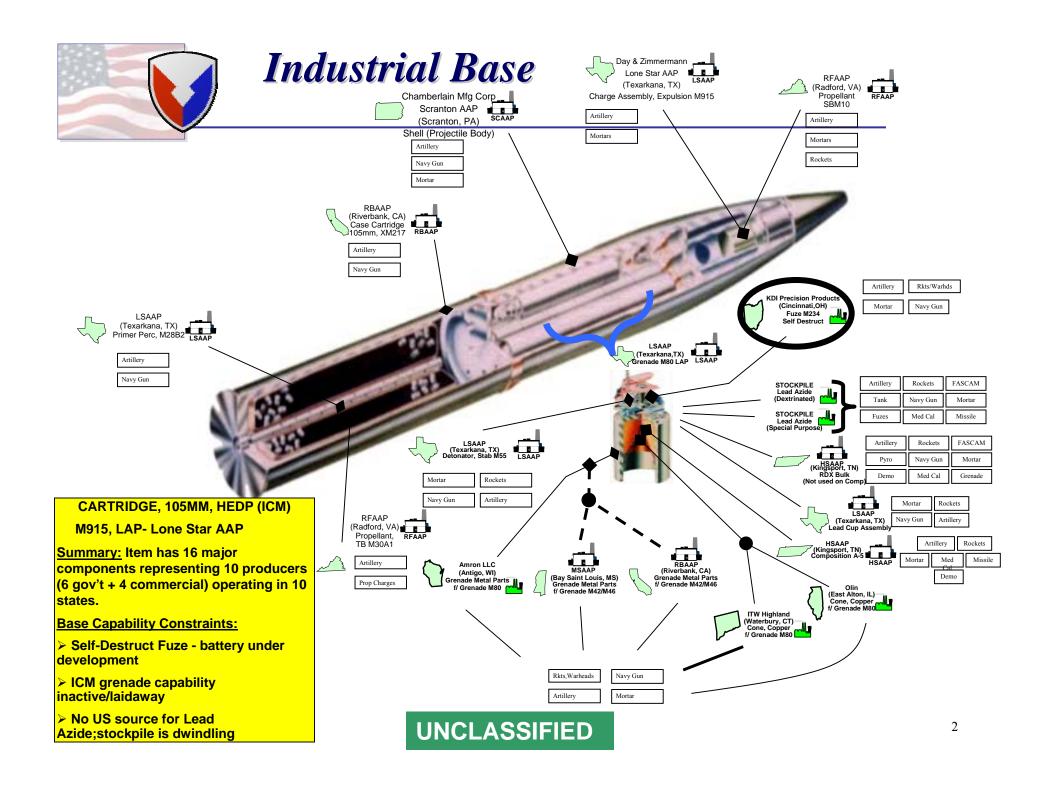
MG Hamp McManus

U.S. Army Joint Munitions Command

Atlanta XXIX Conference
Industrial Base: Front and Center
28-30 April 2003







Transforming the Industrial Base

- Capabilities-based -

- ❖ Vision... A Responsive, Innovative, Lean Cost/ Process with an Efficient Manufacturing Base Capable of...
 - Meeting National Security Missions
 - ✓ Integrating Lean/Agile Manufacturing Concepts
 - Satisfying Defense Future Systems Requirements... Future Combat Systems, Navy DDX, Joint Strike Fighter
 - Migrating to Public-Private Partnerships

Rightsizing the Base

Commercialize When Economically

Feasible at Minimum

Cost & Risk

Ammunition <u>Plants</u>

- ❖Implement SecArmy approved way ahead
 - ✓ Long Term Leasing
 - ✓ Integration
 - ✓ Consolidation
 - **✓** Divestiture
- Strategy builds on & complements PBD 407





Defense Industrial Base Transformation

24 Mar 03...SecArmy Direction... AMC..

GOGOs & GOCO Ammunition Facilities...

- ✓ Write concept to Consolidate, Divest, or Lease... As Appropriate!
- ✓ Include mission realignment...Improve utilization & operating efficiencies!
- √ No implementation activity...Unless under BRAC '05 process

❖ GOGO Manufacturing Arsenals...

- ✓ Continue reduction of plant capacity...Institute internal efficiency initiatives
- ✓ Facilitate business base at all Ground Systems Industrial Enterprise GSIE
- ✓ Continue to leverage full capability of defense industrial base...Reduce
 products & services cost to level comparable with industry with out need
 for subsidies

❖ GOGO Maintenance Depots...

- ✓ Continue to form & maintain public-private partnerships
- ✓ Continue implementation of LEAN Philosophy & other initiatives...Improve efficiencies, optimize utilization, & upgrade core capabilities

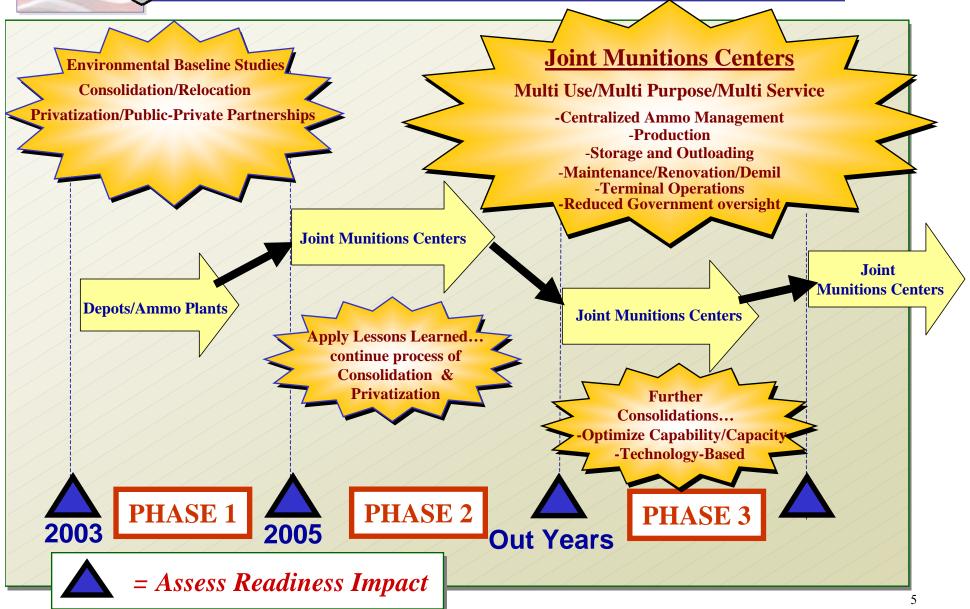
Meet current & future requirements!

All activities related to realignment and/or closure...

Conform with SecDef's BRAC '05 policy!

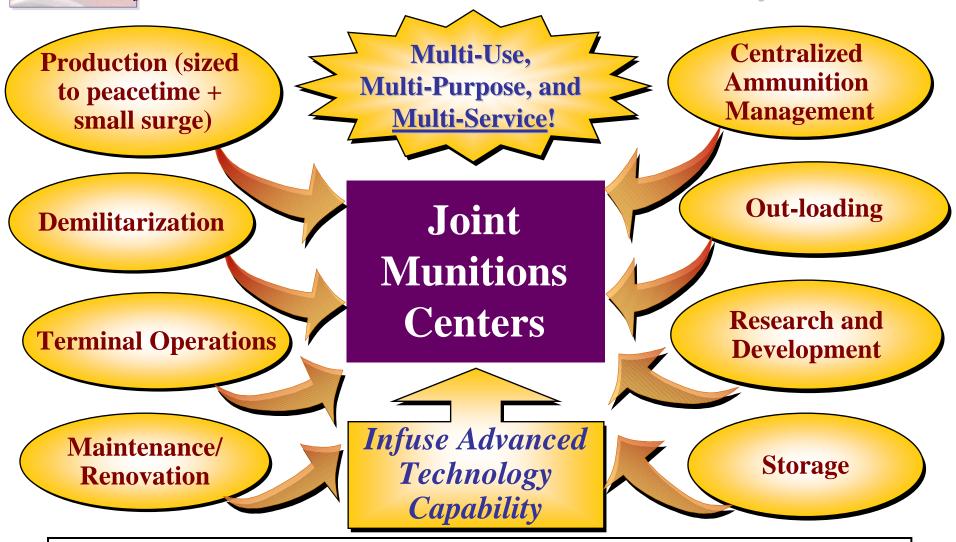


Transforming Joint Munitions Base





What does a Joint Munitions Center Look Like in the 21st Century?



Focus is Requirements & Capability vs. Infrastructure



Transforming the Manufacturing Base

Rationalization, Relocation / Consolidation, Reduction

❖ Ground Systems Industrial Enterprise (GSIE) Goal...Continuous improvement of soldier support while realizing cost reduction of products / services to a level comparable to private industry without Army subsidies

Formation of GSIE:

- **✓** Anniston Army Depot (ANAD)
- ✓ Red River Army Depot (RRAD)
- ✓ Sierra Army Depot (SIAD)
- **✓** Watervliet Arsenal (WVA)
- **✓** Rock Island Arsenal (RIA)
- ✓ Lima Army Tank Plant (LATP)

What we have done:

- **✓** Reduced infrastructure (WVA)
 - 290,000 sq. ft. of floor space
 - 527 pieces of IPE
- **✓** Reduced infrastructure (RIA)
 - -600,000 sq. ft. of floor space
 - 357 pieces of IPE

What we are doing:

- ✓ Leveraging Industrial Base's full capability
- ✓ Expanding existing capabilities' utilization
- **✓** Getting more efficient
- ✓ Divesting unneeded plant facilities
- ✓ Reducing plant capacity

How we're doing it:

- ✓ Implementing lean philosophy & other quality programs
- **✓** Further reducing infrastructure (RIA example)
 - 100,000 sq. ft. of floor space
 - 357 pieces of IPE
- ✓ Infusing new workload
 - Diminishing Manufacturing Sources & Materiel Shortages (DMSMS)
- **✓** Legislative & financial reform

Prior

2003

Future



Summary

- Transforming and Sustaining Simultaneously
- Implementing Lean Philosophy
- Restructuring Based on Jointness and Capabilities
- Methodology
 - ✓ Rationalization
 - ✓ Relocation/Consolidation
 - Reduction



CHALLENGES... Retain flexibility to increase production output to meet contingency requirements...

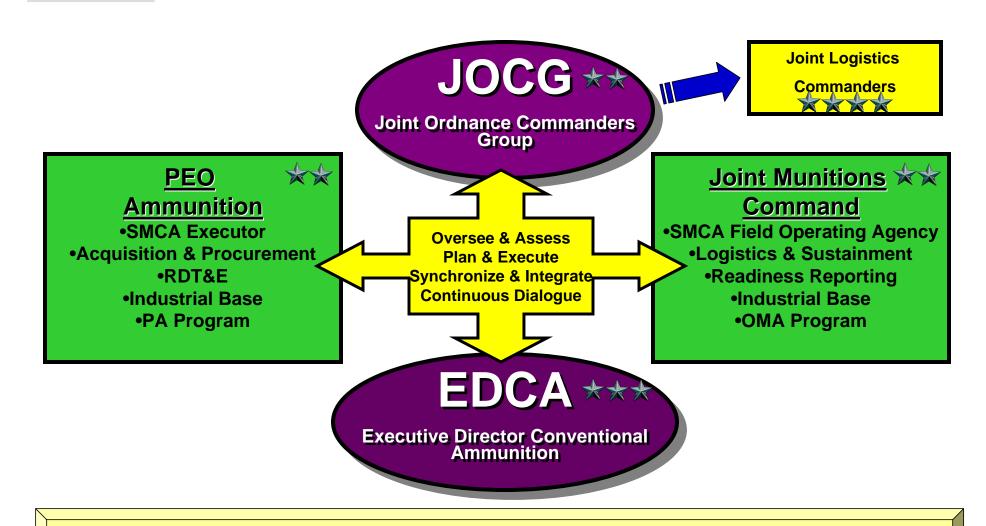
Not compromise Warfighter readiness!





Back Up

Enterprise Operations Not Just Army...A <u>Joint</u> Collaborative Endeavor

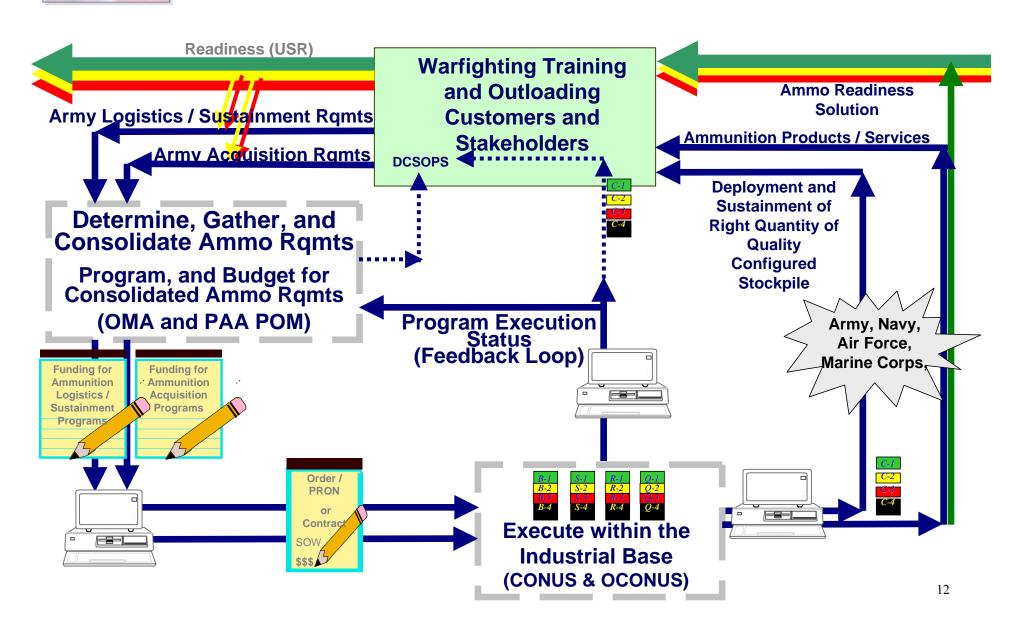


Army....The Single Manager for Conventional Ammunition

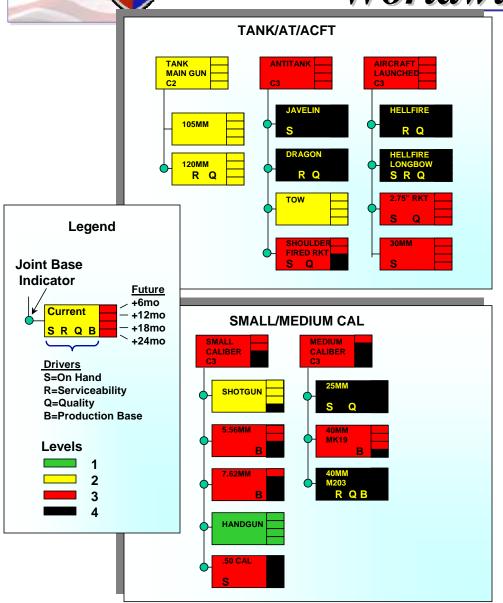


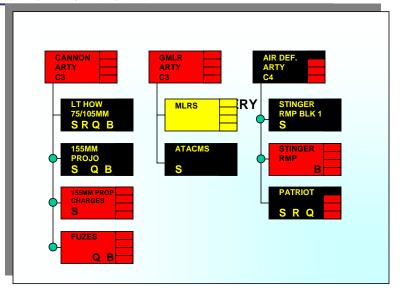
Ammunition Enterprise

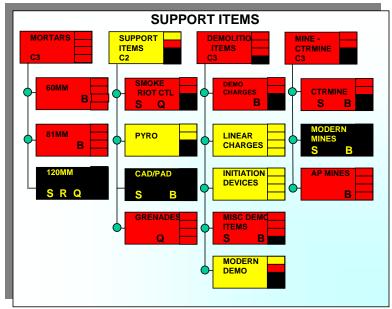
(A complex process requiring an Enterprise solution)



Army Munitions Readiness Worldwide View



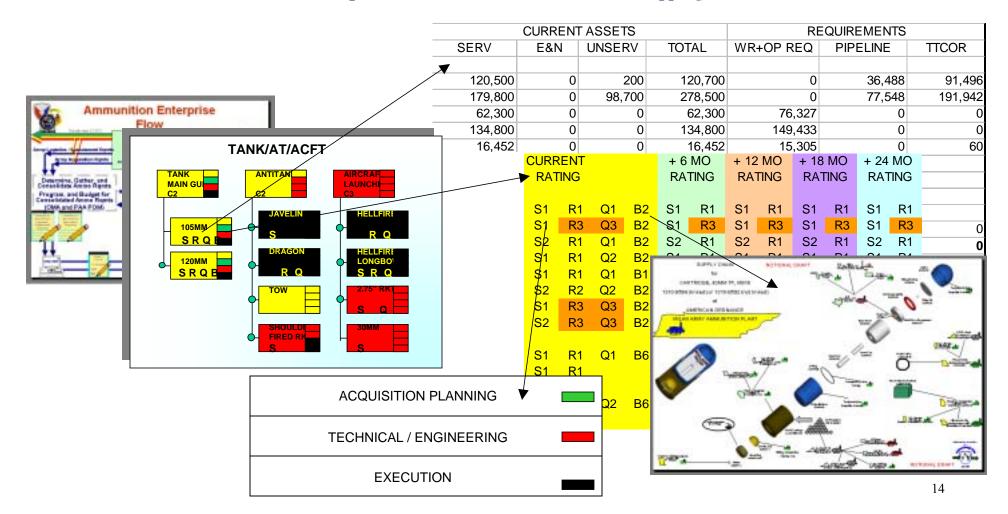






Army Munitions Readiness Report (Drill Down Capability)

- Asset vs Requirements
- On-Hand Supply, Quality, Serviceability, and Production Base Ratings.
- Drill-Down to Acquisition Details and Industrial Base Mapping.





State of the World

- Market & Defense Globalization Program
- Increased Joint operations
- Financial & Budgetary instability
- Global War on Terrorism

Critical Global
Industrial Base for the 21st Century









Production Base Realities

✓ Example Critical End Items/Components at High Risk

- ➤ Links redeveloped single producer (17 small/medium caliber items)
- ➤ Fuze Base Down from 31 to 7 at-risk producers
- ➤ Black Powder Only producer in financial difficulty (used in 94 items)
- ➤ Electronics commercial markets more lucrative

✓ Example Items Without Domestic Sources

- ➤ Nitroguanidine essential to Modular Artillery Charge System
- ➤ Lead Azide approximately 85% of the munitions families
- ➤ Baled Cotton Linters HYDRA, 120 tank, & MACS
- ➤ Vinyl Alcohol Acetate Resin Binder used in pyrotechnic items
- ➤ M234 Self-destruct Fuze Artillery/Navy Gun/Missile Programs
- ✓ Surge capability virtually non-existent ...can only affect 10% of the "go to war" shortfalls
- ✓ Marginal capability for preferred and precision munitions
- ✓ Policy changes diminish capabilities, e.g., Mobilization

 Surge → Resupply → Replenish in 24 months

 Replenish in 36 months → 1 versus 2 MTWs →



Ramifications of Industrial Base Readiness to the Warfighter

- Recent walk-in order for 8 million additional pounds of CXM-7 explosive for Navy bombs being provided by Holston AAP no where else in world could timeframes and US military requirements be met.
- → Demands for small arms ammunition increased from 800 million to 1.2 billion rounds per year. Lake City AAP only location that can meet these demands.
- No peacetime buys for M67 Grenade resulted in contractor divestiture of equipment and critical shortage in supply for Operation Enduring Freedom while capacity later re-established at new location.
- No production source currently exists for Lead Azide used in 9 of 14 ammunition families. Government divestiture of capability occurred based on commercial source reliance. Commercial producer later exited the business resulting in current at-risk situation as existing aging stockpile is drawn down.

Industrial base issues cause the Munitions Readiness Rating to be reduced for 32 percent of ammunition items.



What is the Ammunition Industrial Base?

	<u>1991</u>	Today
Government-owned Facilities	28	13
- Acres	526K	351K
- Equipment	483K	302K
- Production Lines	270	73
- Production Personnel	19K	7K
Contractor Facilities	163	69
Contractor Facilities with	36	10
Government-owned Equipme	ent	

Combination of Government-owned and private sector facilities required - supports production demands for all Services

Significant downsizing has occurred – 68% reduction in capacity since 1991



Supports all Services

BREAKOUT BY SERVICE

- 17 Unique to AIR FORCE
- **67 Unique to NAVY**
- **5 Unique to MARINE CORP**
- 50 Unique to ARMY
- 61 Common to Multiple Services
- 200 TOTAL ITEMS (& 355 components)

