#### **PEO Ammunition Appropriation Update**

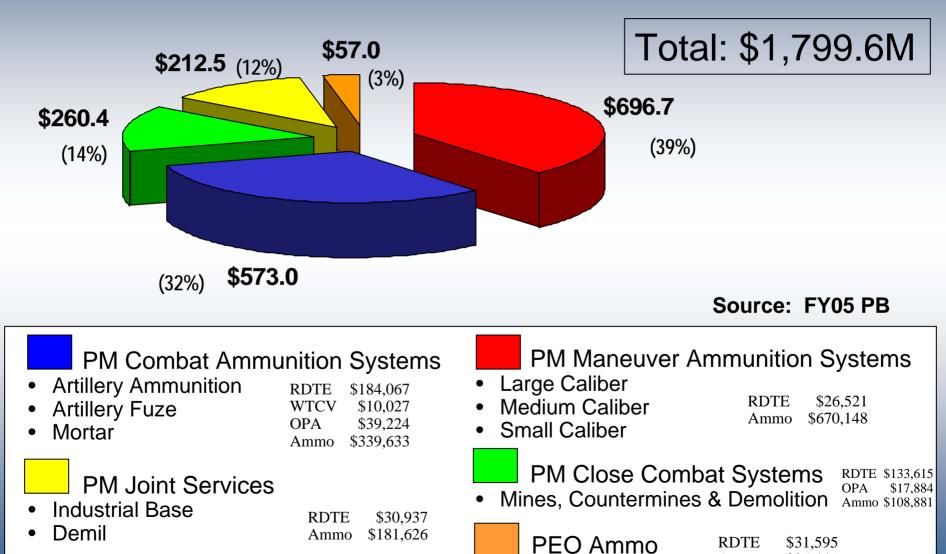




**Robin Gullifer** Associate Program Executive Officer, Ammunition – Program Management

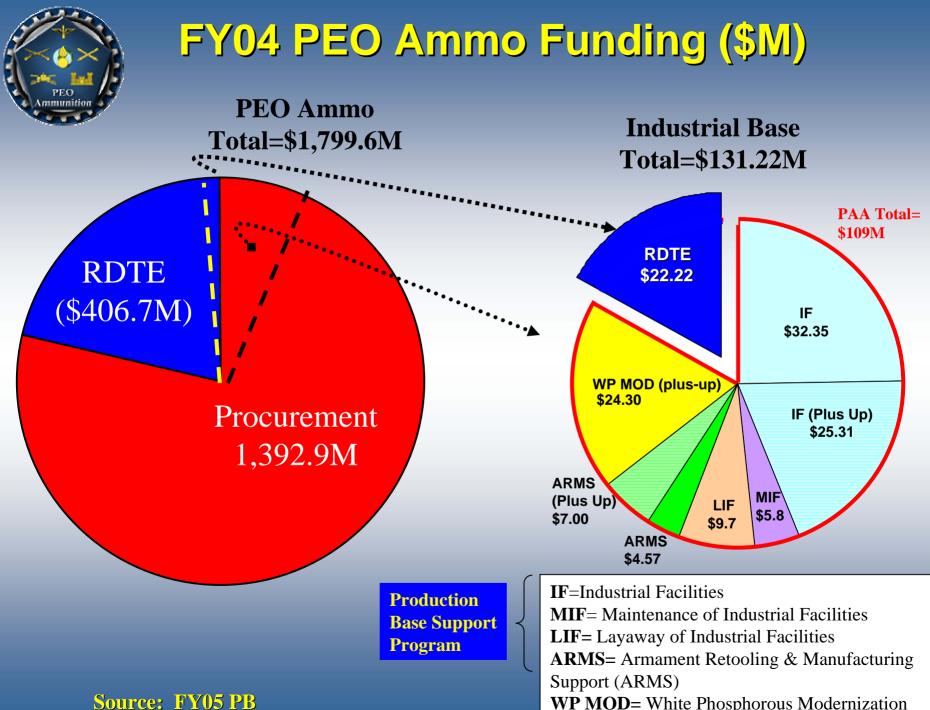


# RDA FY 04 PEO Ammo Budget Total



\$25,446

Ammo



WP MOD= White Phosphorous Modernization



# FY2004/FY2005 Ammunition Amended Budget

	(Current TOA \$ in Millions)			
	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	
Hardware	1778.5	1196.2	1409.0	
Prod Base	142.7	182.2	147.9	
Total	1921.2	1378.4	1556.9	



- Training Ammo at low C-2 Level of Readiness (82% of the executable rqmt)
- ✤ 17 Modern Munitions (Armor Piercing 5.56MM, 7.62mm and .50 CAL; Mortars -M934, XM983, M929A1; Tank M829E3, XM1028; 105MM HEP-T, XM1040 AP, XM982 Excaliber, 155mm M864, MACS, MOFA, NSD-APL, LVOSS, & BDM
- Procurement of Hydra 70 Rockets in the Amended Budget
- Conventional Ammo Demil
- Limited Ammo Prod Base



- Restock War Reserve
- Build-up of Modern Munitions



## Detailed Funding Breakout Procurement

	<b>Procurement</b> (\$M)	FY03	FY04	FY05	
H	lardware	1778.5	1196.2	1409.0	
	Training	(1521.9)	(984.2)	(1142.9)	
	War Reserves	(197.1)	(179.0)	(239.1)	
	Non-Hardware/Miscellaneous	(59.5)	(33.0)	(27.0)	

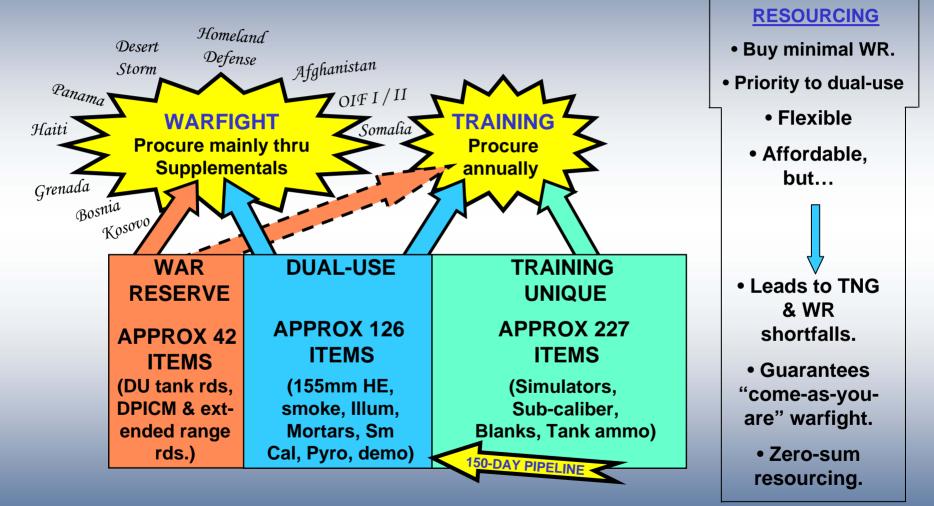
P	roduction Base Support	142.7	182.2	147.9	
	Industrial Facilities	61.6	58.6	40.8	
	Layaway	6.9	12.9	2.3	
	Maint of Inactive Fac	8.5	9.6	4.7	
	Demil	57.2	89.5	95.4	
	ARMS	11.5	11.6	4.7	

Total Funding 1921.2 1378.4	1556.9
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## Army Ammunition Management

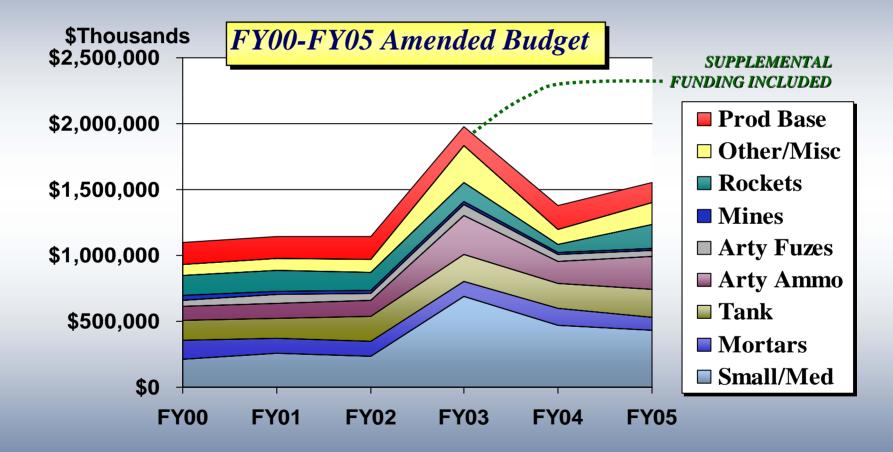
#### **ONE GENERIC PILE -- "AMMUNITION."**



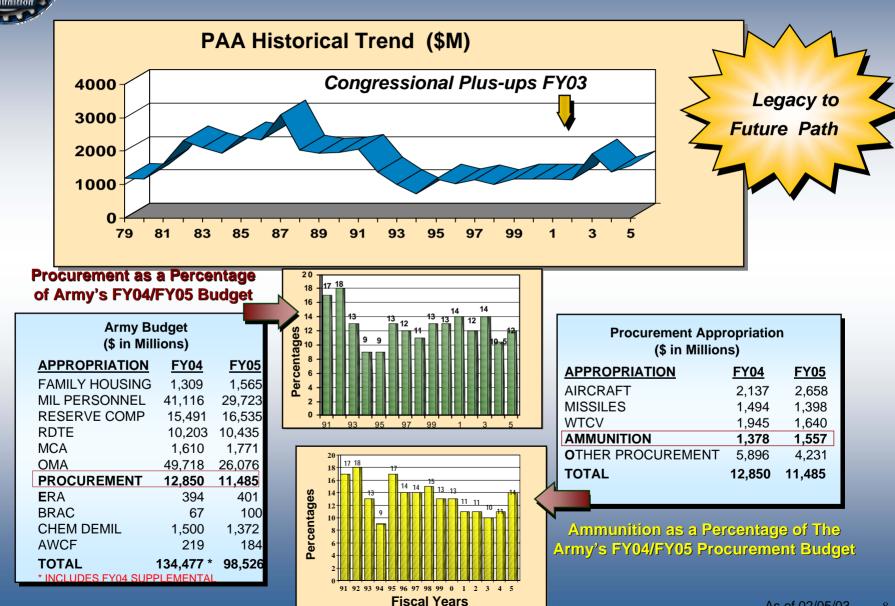
#### ARMY MUST BUY WAR RESERVE AND TRAINING AMMUNITION



#### Ammunition Procurement Projection by Categories



### PAA - Funding Profile





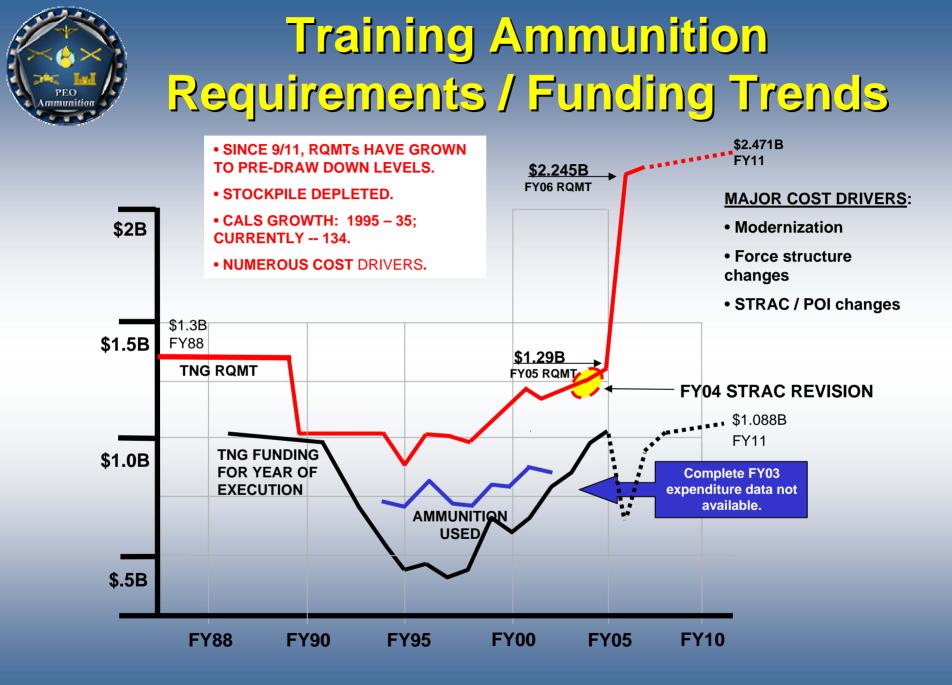
# Description Training

- Army High-priority program designed to provide sufficient training ammunition to train all Army units and support training base
- Mission Support Army readiness by resourcing 100% of training ammunition requirement
- Training Ammunition Acquisition Strategy -
  - ✓ Fund training at C-2 level of readiness
  - Support all Army Components and Reserves
  - Does not fund other critical unprogrammed requirements (eg., RC MOB TNG, mission rehearsals and other CONOPs-related TNG)
- > Critical Training Shortfalls --
  - ✓ Small caliber (5.56mm, 7.62mm, .50-cal, 40mm). Particular impact on:
    - Individual weapons qualifications
    - Special skills TNG (night firing, National Training Center (NTC) firing)
    - TRADOC "Schoolhouse" TNG (eg., currently sourcing INF tactical TNG and all others, i.e., basic training)
    - Grenades. Currently sourcing only TRADOC Schoolhouse TNG. Simulators and Signals – Impacts collective TNG at all levels



## Requirements Training

- Army Training Requirement
  - ✓ Total training requirement is funded at \$1.3B annually
  - Training standard is set by Standards in Training Commission (STRAC) and by TRADOC Programs of Instruction (POI) for schools
  - FY03 STRAC revision aligned TNG strategies with Army doctrine, resulting in major changes in requirements (e.g., 40mm). Also includes SBCT training strategies (large small-caliber requirements)
  - Revised STRAC resulted in \$243M annual increase in TNG ammunition costs
- Budget program developed based on highest year of execution during a three-year period
  - Army does not buy 100% of STRAC RQMT and, therefore, could not execute 100% STRAC RQMT if it suddenly decided to do so
  - Training ammunition shortfalls give false impression of underexecution – soldiers cannot fire bullets they do not have in the first place





# Training Ammunition Funding

**1990s:** SUPPORTED FROM THE STOCKPILE (\$2.8B). POM FUNDING AVERAGED \$600M / YEAR.

**9/11 – FY03:** UNPROGRAMMED CONOPS-RELATED TRAINING TOTALLING \$355M. ESTIMATE ADDITIONAL \$105M IN FY04.

FY03 SUPPLEMENTAL: **\$719.2** (\$447.5M + \$271.7M).

- \$225M used for TNG; all other for WR.
- Buys back training pipeline and replenishes WR.
- Initial stocks available in mid- to late-FY04 FY06.

**FY04: \$1.032B funded** (82.4%) / \$1.252B RQMT.

• First year of funding for munitions to support FY05 STRAC.

• SEP 03 – OSD Withdrew \$36M (40mm). Adjusted funding: \$996M (79.5%).

**FY05: \$1.038B PB** (81.7%) / \$1.299B PF 1.0 RQMT for RE01.

FY05 Amended Budget of \$1142.5 includes \$127M for Hydra 70 Rockets



## Description War Reserve

#### LEGEND:

<u>Underscored:</u> In FY2005 Amended Pres Bud

- > Army -- high priority program to modernize ammunition available to existing warfighting platforms
- Mission -- provide forces with modernized highly capable munitions to support new and existing weapon systems
- > System -- includes Army direct & indirect fire weapon systems that maintain overmatch capability
  - Small Arms Armor Piercing 5.56mm, 7.62mm and .50 Caliber Used to defeat light armor vehicles
  - <u>120mm Mortar M934A1 HEMO, M983 IR Illum, M929A1 WP</u> Supports requirements for the 120mm mortar in the Stryker Brigade Combat Teams (SBCT)
  - ✓ <u>120mm Tank M829E3</u> 4th generation kinetic energy cartridge
  - ✓ <u>120mm XM1028</u> Anti-personnel canister for the United State Forces Korea
  - ✓ <u>105mm M393A2 HEP-T</u> Replacement for the aged stockpile of M393 tank rounds
  - ✓ <u>105mm XM1040 Anti-Personnel-Tracer (APERS-T)</u> Used to defeat infantry squads in the open
  - <u>155mm Extended Range XM982</u> Cannon-delivered precision engagement extended range of indirect fire artillery projectiles
  - <u>155MM Dual-Purpose Improved Conventional Munition (Re-capitalization)</u> Funds the remanufacture and retrofit of this extended range artillery projectile with a self-destruct capability
  - <u>Modular Artillery Charge Systems (MACS)</u> Replace older canvas bag charges and provide enhanced firing and logistics capability improvements to the Army's inventory of 155mm cannon artillery
  - ✓ <u>Multi-Option Fuze Artillery M782</u> Will replace five current fuzes in 155mm weapon system
  - <u>Light Vehicle Obscuration Smoke System (LVOSS)</u> Provides obscuration for tactical vehicles
  - <u>Non-Self Destruct (NSD) Anti-Personnel Landmine (APL)</u> This anti-personnel landmine system will replace the M14 and M16 alternative for Korea by 2006
  - <u>Bunker Defeating Munition (Tactical)</u> Used by infantry forces in attacking bunkers and enemy troops in urban areas



Requirements War Reserve

- > Army War Reserve Modernization Requirement
  - Army objective maintain balanced approach to modernization
  - Support Army Transformation while maintaining combat capability
  - Requirements Documents That Identify the Army's Munitions Requirement
  - Quantitative War Reserve Requirements for Munitions (QWARRM) 11





# FY04 Congressional Action

								Tra	ining	
_	Presi	ident's	Budget	F	T <b>Y02</b>	FY03	•	<b>FY04</b>	FY05	
	Trai	ning		(8	76)	(956)		(984.2)	(1142.9)	
							W	ar Re	serve	
	Wa	r Reserv	ves	(92	2.0)	(144)	(	179.0)	(239.1)	
	-	Con	igressio	nal Act	tion FY	<i>`04 (\$</i>	in	Millions	5)	
REQ	QUEST	HASC	SASC	AUTH	HAC	SAC	<b>Y</b>	APPN	DELTA	
1	309.9	1428.9	1363.3	1413.3	1355.4	1419	9.8	1387.7	+77.8	
ITE	EM		+/- \$	REN	MARKS					
	50 Cal SL	AP	+\$1.0M		rt War Reser	ve Rqmt	S			
- 2	25mm M9	19	+10.0M	Maintain Warm Base f/ Steel Ctg Case						
- 3	30mm HE	DP	1.0M	Support Revised Training Strategy						
	50mm M7		-18.5M	Reduced based on Rqmts						
	81mm Mo		+1.0M	8 8 8						
	120mm M		+\$30.3M		1	2	' Equ	iip/Spt WR ຄ	and Trng	
	120mm Ta 155mm M		-5.5M -18.0 M		ed Requirem					
- :	155mm M 155mm M	485 Illum	+1.0M	Reduce Program Delay Support Revised Training Strategy						
	MACS		+1.0 m							
	HYDRA R		+20M	Supports Training and War Reserve						
		UNITONS	7.0M		rts War Buil	-				
_ ]	PBS		40.1M	Increase to PIF, Demil and ARMS						



### Fuze Base Concerns

#### Concerns:

- Lack of funding across the board
- Financial viability of Fuze Base
- Maintaining critical core competencies

#### What PEO Ammo is observing:

- Communication is improving, people are starting to listen
- Collaboration between all Services, Government and Industry will facilitate success
- ✓ Fuzing as part of systems contracting will increase



## Organic Production Base Capabilities

#### 11 GOCOs

	Ordnanaa Svatama	
	Ordnance Systems	
Holston (TN)	Inc., BAE	Energetics - HMX, RDX
		Load, Assemble & Pack
	American	(LAP) - Tank/Artillery,
lowa (IA)	Ordnance	FASCAM
	Alliant	
Lake City (MO)	Techsystems	Small Arms Manufacturing
		LAP - Grenades, Initiators,
		Detonators, Mines, Cargo
Lone Star (TX)	Day & Zimmerman	Munitions
	American	LAP - Mortars, 40mm
Milan (TN)	Ordnance	Cartridges; C-4 Extrusion
		Propellant Manufacturing
		(Rocket, Artillery, Tank,
	Alliant	Med Cal; NC for Small
Radford (VA)	Techsystems	Cal)
	Chamberlain	Large Caliber-
Scranton (PA)	Manufacturing	Artiller/Mortar Metal Parts
		Steel/Brass Cartridge
		Cases, Grenade Metal
Riverbank (CA)	Norris, Inc.	Parts
		LAP-Sensor fuzed
Kansas (KS)	Day & Zimmerman	weapon; Mortar/Artillery
		Semi Active - Cargo Metal
Mississippi (MS)	Day & Zimmerman	Parts
		Semi Active - Large
Louisiana (LA)	Valentec	Caliber Metal Parts

#### **3 Active GOGOs**

Crane (IN)	LAP- Pressed/Cold Cast Navy Gun, Illum Candles
McAlester (OK)	LAP-Cold Cast Bomb
Pine Bluff (AR)	LAP-Smoke Artillery/Mortar

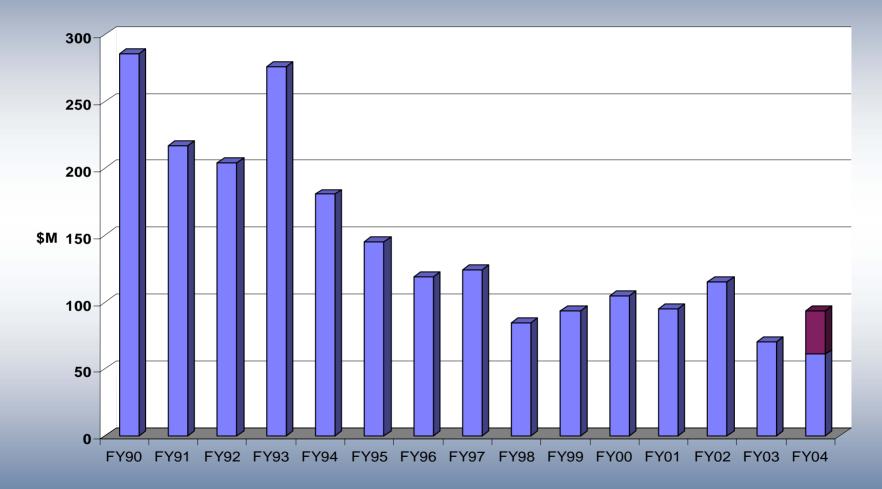
#### **Current Production Base PAA \$s**

- > 25% Directly to GOCO's
- > 5 % Directly to GOGO's
- > 70% Directly to Commercial





## FY90-FY04 PAA Production Base Funding





### Industrial Base Strategic Plan

**30 Tactica** 

**Strategies** 

7 Overarching Strategies

#### **Strategic Goals:**

- 1. Transform to Meet Current and Future Requirements
- 2. Modernize Utilized Manufacturing Capacity
- 3. Balance Industrial Base & Acquisition Management Risk
- 4. Operate Efficiently and Effectively
- 5. Incentivize Industry to Reinvest in Capital Equipment and Processes

#### **Sample Overarching Strategies:**

- 1. Acquisitions Will Determine and Posture the Production Base.
- 2. Acquisitions and Investments Will be Synchronized to Assure Required Manufacturing Capabilities Remain Available.
- 3. Opportunities for Greater Joint Service Activity Will be Identified and Implemented.

**Outlines Goals and Tactics to Shape the Industrial Base** 



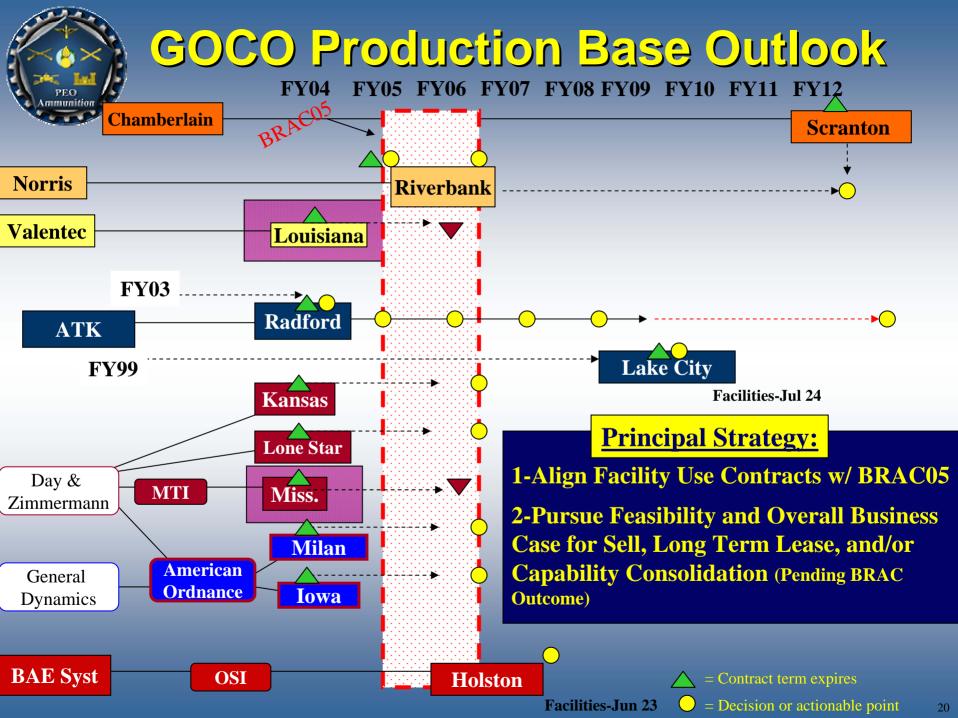


Single Manager for Conventional Ammunition (SMCA)

Industrial Base Strategic Plan: 2015 Volume A

3 November 2003

Program Executive Office Ammunition SFAE-AMO Picatinny Arsenal, NJ 07806-5000





Conclusions

- Near term procurements relatively stable
- DoD IPT making good progress
- Fuze Industrial Base and critical core competencies receiving increased focus
- Working hard on developing a good acquisition business model with industry input

