

SUPPORTING
THE WARFIGHTER
A MARINE CORPS
TRADITION



PROGRAM MANAGER, AMMUNITION
MARINE CORPS SYSTEMS COMMAND

ARMAMENTS TECHNOLOGY FIRE POWER FORUM



MARINE CORP MUNITIONS OVERVIEW

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SUPPORTING
THE WARRIGHTER
A MARINE CORPS
TRADITION

UNITED STATES MARINE CORPS

The banner features a red background with a faint Marine Corps emblem and a photograph of two Marines in combat gear looking at a device.

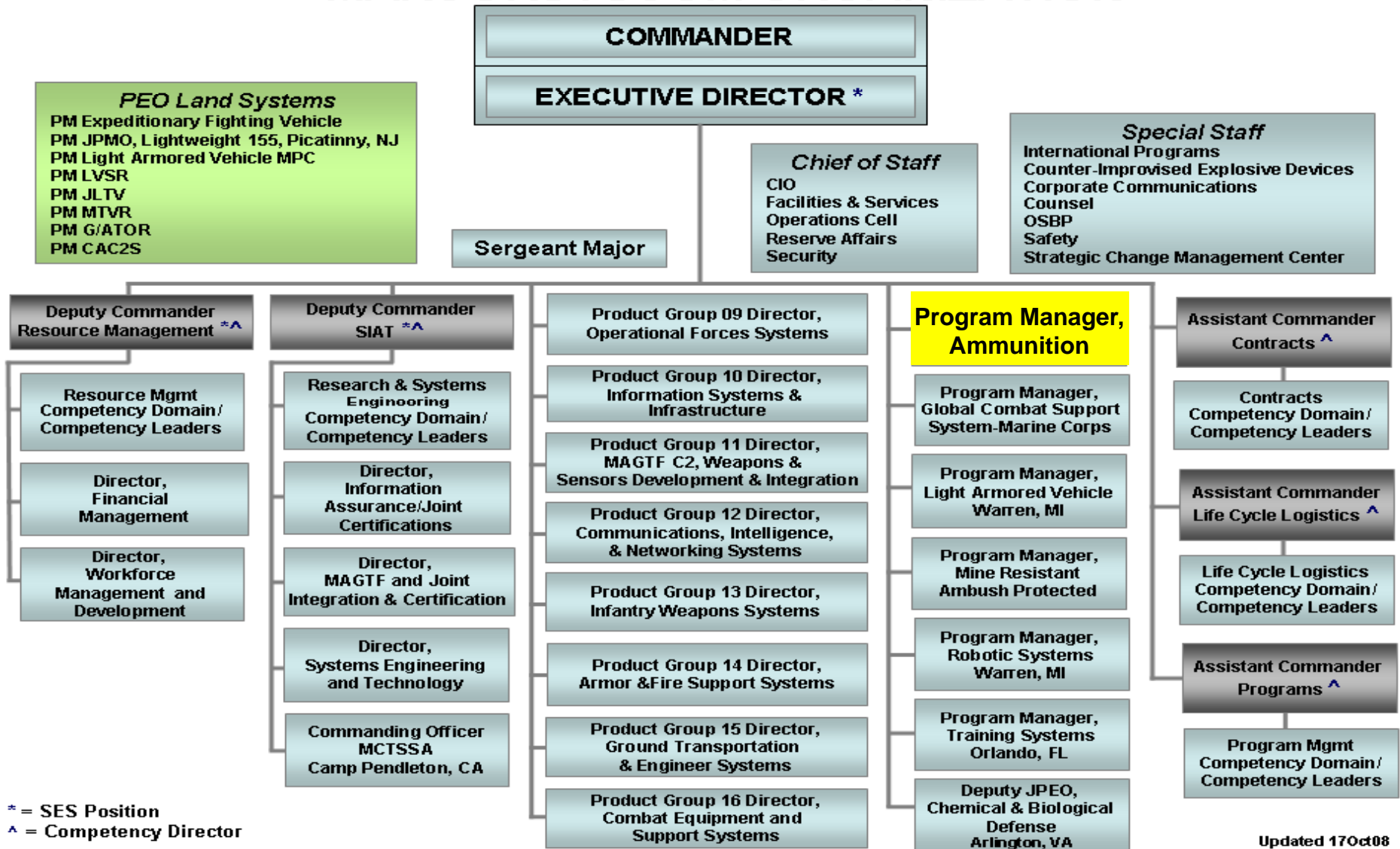
AGENDA

1. PM Ammunition Overview
2. Munitions Requirements
3. Funding
4. Quality & Reliability
5. Precision
6. The GWOT Environment
7. Summary

SUPPORTING
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PM Ammunition Overview

MARCORSYSCOM ORGANIZATION



* = SES Position
^ = Competency Director

PM Ammunition Overview

PM AMMUNITION MISSION

Conduct acquisition, life cycle management support, and limited research & development for all conventional ground ammunition (Class V(W)) required by Marine Corps Forces to train for and successfully conduct Expeditionary maneuver Warfare.

“sustaining the forces”



LIFE-CYCLE MANAGEMENT



PM Ammunition Overview

Program Manager

Deputy
Program Manager
LtCol 2340

(Divisions)

(Divisions)

AMMUNITION PROGRAMS
&
BUDGET DIVISION

(PMM 2041)

(Teams)

(Teams)

Inf
Wpns
Ammo

LgCal
& Missiles

Strategic Ammo
Business Ops

INVENTORY MANAGEMENT
&
SYSTEMS DIVISION

(PMM 2042)

(Teams)

(Teams)

Systems

Inventory Mgt.

Analysis & Eval

PLANS, OPERATIONS,
&
SAFETY DIVISION

(PMM 2043)

(Teams)

(Teams)

Environmental &
Explosives Safety

Plans & Execution

Operations

Conduct research, development, procurement planning, budgeting, acquisition, maintenance and surveillance, of ammunition in support of the operating forces.

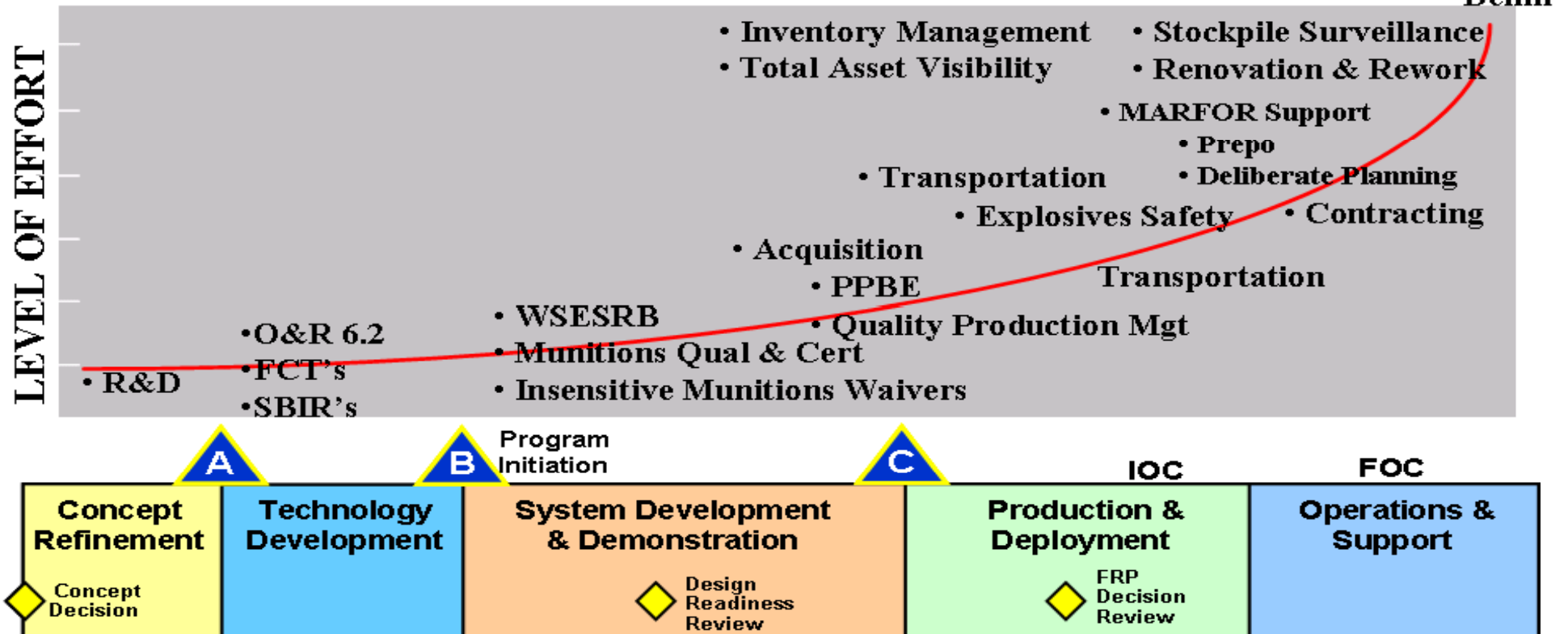
Manage the ammunition stockpile, develop and maintain configuration control of Ordnance Information Systems, and conduct Class V(W) accountability oversight.

Enable Class V support in the functional areas of MAGTF planning, operations planning, explosives safety, and environmental Compliance.

PM Ammunition Overview



LIFE CYCLE OF MUNITIONS



PM Ammunition Overview

CLASS V(W) Conventional Ground Ammunition (300 + Items)

JP 1-02 munition — “A complete device charged with explosives, propellants, pyrotechnics, initiating composition, or nuclear, biological, or chemical material for use in military operations, including demolitions.”

- **Small Arms Ammunition** - 12 gauge, 9mm, .45 cal, 5.56mm, 7.62mm, .50 Caliber, Non-Lethal, SESAMS, tracer, sniper, frangible, green, paintball, AK47, REHA
- **Medium Caliber Ammunition** - 25mm, 30mm, 40mm
- **Mortar** - 60mm, 81mm, 120mm (HE, Smoke, Illum, Infrared)
- **Tank** - 120mm KE, HEAT-MP-T, MPHE, Training, Canister (APERS)
- **Artillery** – 155mm HE, DPICM, ADAMS, RAAMS, RAP, Smoke, Illum (VL/IR), Excalibur PGM, Propellant Chgs, MACS, fuzes, primers.
- **Pyrotechnics** - (Smoke, diversionary grenades, flares, obscurants, signaling devices)
- **Demolition** - (C4, TNT blocks, LDC, Initiators/ignitors, Demo kits, APOBS)
- **Rockets/Missiles** - (LAAW, SMAW Family, TOW, JAVELIN, AT-4, STINGER)

Supports ALL Howitzers, Mortar Tubes, rifles, shotguns, tanks, 40mm grenade launchers, LAV, EFV, mine clearing capabilities, anti-armor, bunker busting, pistols, EFSS and, all self defense, hand emplaced items (hand grenades, demo blocks, signaling devices)

Designed to Kill and Destroy - Personnel & Materiel



PM Ammunition Overview

Explosives Safety

“Provide environmentally compliant, explosives safety support throughout the life cycle of ammunition”

- **HQMC (SD) Designates Cmdr, MCSC “lead” for Explosives Safety (ES)**
(MCO 5100.29A Marine Corps Safety Manual 4.I.(3))
- **PM Ammo executes the Corps wide ES Program**
 - Develops & promulgates ammo management policies ISO Marine Forces
 - Ensures compliance with environmental & explosives safety regulations
 - Provides compliant munitions disposition instructions
- **Serves as Principle on the DOD Explosives Safety Board**
- **Guiding Explosives Safety Policies:**
 - DoDD 6055.9 STD
 - OPNAVINST 8020.14/ MCO P8020.11 -DoN Explosives Safety Policy Manual
 - MCO P8020.10A - USMC A&E Safety Programs for Class V Materiel
 - MCO 8023.3A - USMC Qualification & Certification Program for Class V Materiel
- **Explosives Safety Site Plans/Waivers**
 - **Incorporating ORM & SAFER**



PM Ammunition Overview

Inventory Control Point (ICP)

- **Manage the stockpile (\$6.0 Billion)**

- Stratification/Cross-leveling (Right size the stockpile!)

- **Sourcing:**

- War Reserve Materiel: Preferred lots
suitable f/long term storage

- Ensure assets that are showing degradation are resourced first

- Identifies assets “excess/deficient in” the USMC Class V(W) stockpile

- Quarterly Readiness Report to Congress (QRRC)

- Quarterly Stockpile Valuation Report (DC P&R)

- **Stockpile Reclassifications - Suspensions (NARs/AINS, etc.)**

- **Provides:**

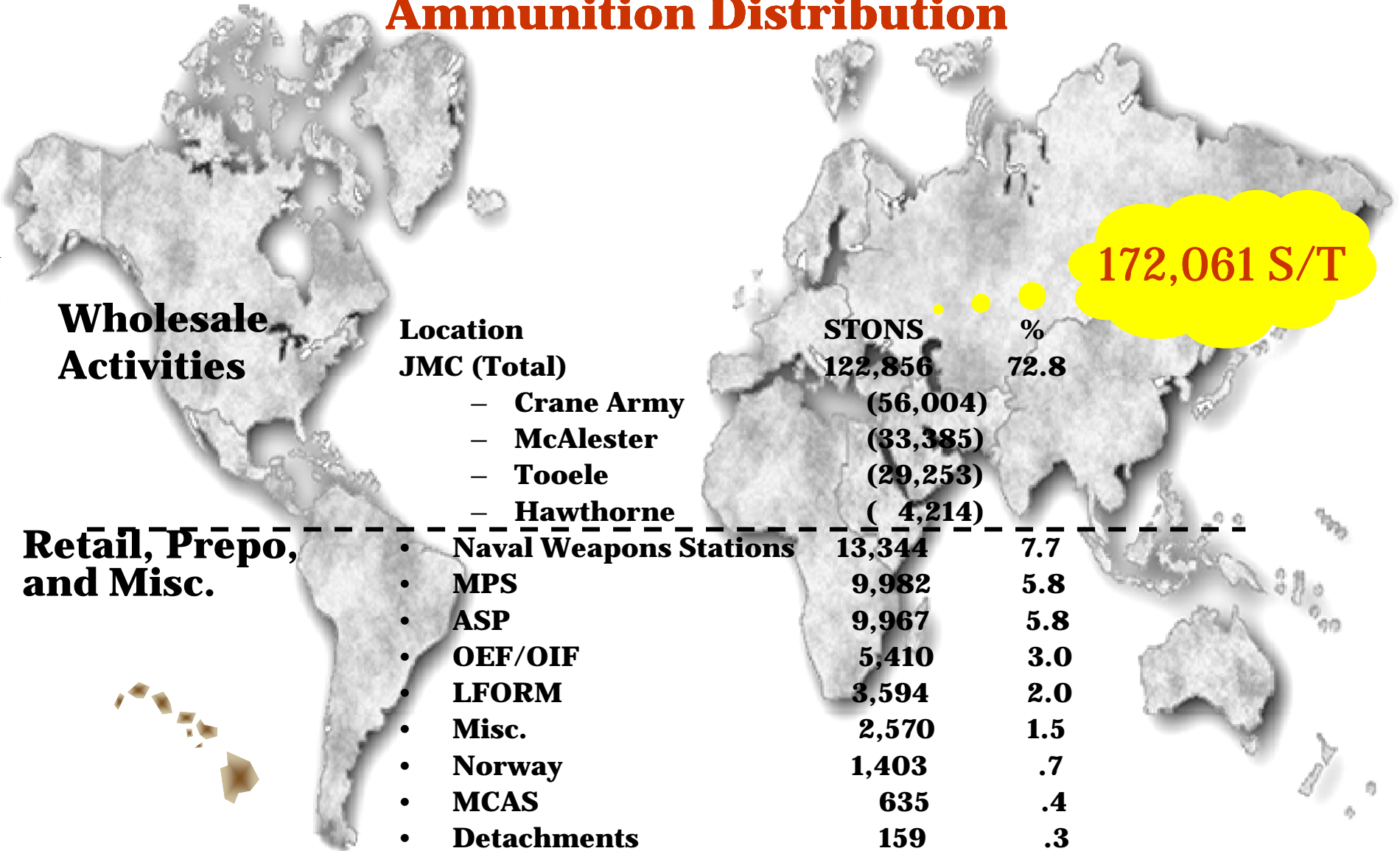
- sourcing data & supportability to assist in building TPFDD
- retrograde destinations at completion of operation
- disposition instruction on unserviceable assets, assets not cost effective to renovate, and assets no longer required
- an accurate inventory at the end of each fiscal year (30Sep),
- inventory and location as a basis for decisions on testing, and maintenance to move assets in support of projects.





PM Ammunition Overview

Ammunition Distribution



Wholesale Activities

- Location**
JMC (Total)
- Crane Army
 - McAlester
 - Tooele
 - Hawthorne

STONS	%
122,856	72.8
(56,004)	
(33,385)	
(29,253)	
(4,214)	

172,061 S/T

Retail, Prepo, and Misc.

• Naval Weapons Stations	13,344	7.7
• MPS	9,982	5.8
• ASP	9,967	5.8
• OEF/OIF	5,410	3.0
• LFORM	3,594	2.0
• Misc.	2,570	1.5
• Norway	1,403	.7
• MCAS	635	.4
• Detachments	159	.3

PM Ammunition Overview

Information Technology

“ Provide Life Cycle Management support for all ammunition management systems used to account for Class V(W) assets”

- **Wholesale Accounting**
 - **Ordnance Information System – Marine Corps (OIS-MC)**
 - **Class V(W) Wholesale Accounting System**
 - **Significant IT effort; joint with USN; NLI Initiative and ONE NETWORK!**
 - **Transition during Oct’08 with ONE NETWORK Functionality**
 - **Retired MAARSII Legacy System**
- **Retail Ordnance Logistics Management System (ROLMS)**
 - **Retail-level accounting system for ASPs & Liaison Activities**
 - **Standard system for all Marine & Navy users**
 - **Capable of running stand-alone on a PC workstation or laptop for use during deployment.**

S Y S T E M S

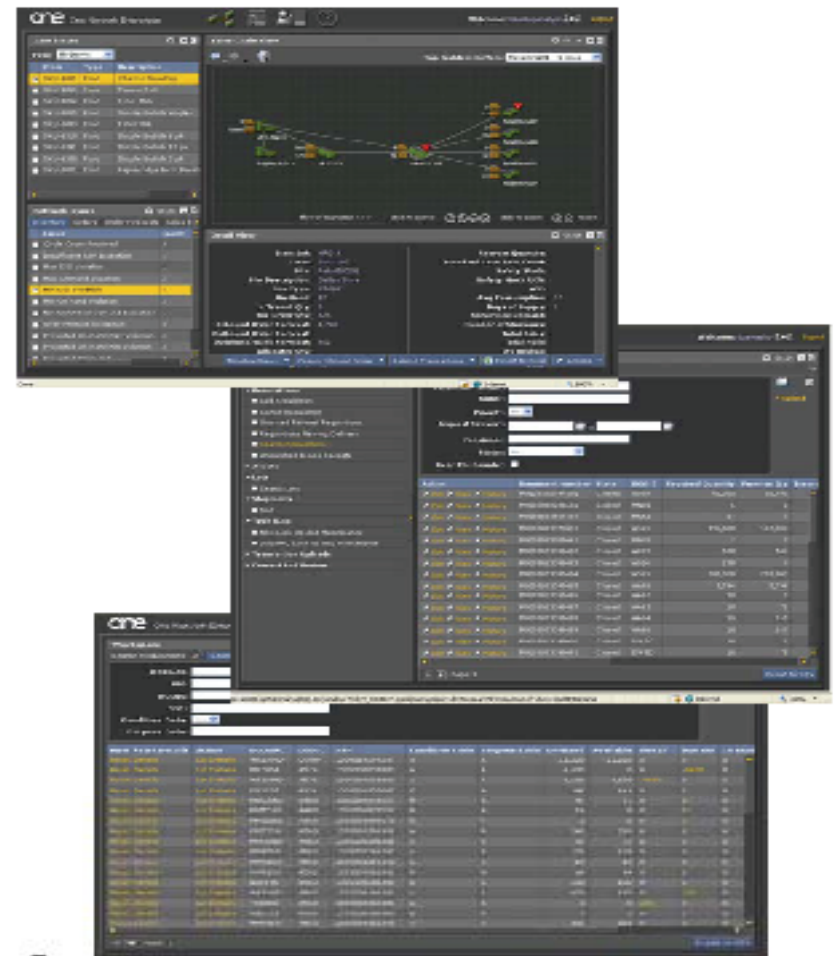


PM Ammunition Overview

OIS-MC Overview



- **MAARS-II system modernization**
- **Key capabilities:**
 - Requisition management (create, receive, fill, track)
 - Inventory visibility and maintenance
 - Lot and serialized item tracking
 - Tech data management
 - Receipts from procurement*
 - LSA process* (allowance budgets)
 - Supported Unit Ammunition Module* (unit-level ammunition inventory management)
- **Extensible foundation for future efforts and business transformation**



PM Ammunition Overview

State of the Stockpile

Program Manager for Ammunition
Marine Corps System Command

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Knowledge Management Portal

Welcome to the One Stop Shop for Ground Ammunition Information. Provided by the Program Manager for Ammunition.

This Portal is a Prototype.

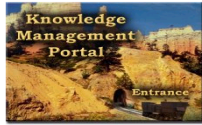
Prototype: Process of building an experimental system quickly and inexpensively for demonstration and evaluation so that end users can better determine information requirements.

⚠️ "Inventory numbers represented in this Portal are extracted from the Marine Corps Ground Ammunition Inventory Control Point system MAARS II and include Total On-Hands, Total Due-Outs, Total In-Transit and Total Freeze Quantities. In the future this Portal will break out the aforementioned quantities individually."

The following data sources have been included in this phase of the Knowledge Management Portal:

- CAIMS Technical Data as of 11/7/01
- MAARS II Daily Inventory as of 11/16/01 4:00:48 AM (PDT) - by Condition Code, Location
- MAARS II Procurement as of 10/22/01
- MCCDC Total Munitions Requirements as of 3/7/01
- MCD Cataloging Handbook as of SEP 2001
- PM-AMMO In Lieu of (Interchangeable DODIC) as of 5/14/01
- MCPD Field Inspection CD as of 4/1/01
- MCD 7 Year Maintenance Plan as of OCT 2001
- MCD Tech Data Sheet CD as of 11/2/00
- PM-AMMO 30 SEP Inventory as of OCT 2001
- MCPD State of the Stockpile as of OCT 2000

More data sources coming soon!



BEGIN YOUR SEARCH BY CLICKING THE KNOWLEDGE MANAGEMENT PORTAL IMAGE OR BY CLICKING ON THE SEARCH BUTTON AT TOP OF PAGE.

Daily Inventory, Condition Code, Location

Program Manager for Ammunition
Marine Corps System Command

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Knowledge Management Portal

Inventory

DODIC: C995

Enter DODIC:

[Click here to search DODIC page instead](#)

Current Inventory as of 11/16/01 4:00:48 AM																
Condition Codes																
NSN	A	B	C	D	E	F	G	H	J	K	L	M	N	P	V	Total
1315012454950	41,850	2	524			8	6,323		60		42			3,273		52,182
Total	41,850	2	524			8	6,323		60		42			3,273		52,182

30 SEP 2001 Inventory as of 10/25/01																
Condition Codes																
NSN	A	B	C	D	E	F	G	H	J	K	L	M	N	P	V	Total
1315012454950	42,805	10	624			5	4,093		47		42			3,297		50,923
Total	42,805	10	624			5	4,093		47		42			3,297		50,923

Current State of the Stockpile		Current	
Serviceable	87.7%	45,757	
Unserviceable	12.3%	6,425	

30 SEP 2000 State of the Stockpile		30 SEP 2000	
Serviceable	91.9%	46,741	
Unserviceable	8.2%	4,182	

30 SEP Inventory:



Technical Data

Program Manager for Ammunition
Marine Corps System Command

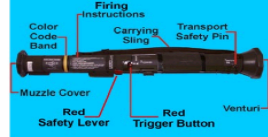
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Knowledge Management Portal

DODIC

Enter DODIC:

Interchangeable DODIC:
Can be used in lieu of:



Cartridge and Launcher, 84mm M136 AT-4 (DODIC C995)

Item Description: The cartridge and launcher, 84mm M136 AT-4 (DODIC C995) is mainly employed against armored personnel carriers. However, it can be used against battle tanks when fired at the flank or rear. It can also be employed as an assault weapon against bunkers, field fortifications, and other hard point positions. Issued as one round of ammunition, the AT-4 tactical round is a self-contained, lightweight, disposable weapon consisting of a launcher and cartridge. The launcher is fiberglass-reinforced with a smooth bore barrel that is environmentally sealed. The AT-4 is equipped with an aluminum venturi, a firing mechanism with three safety switches, front and rear sights, and a carrying sling. The cartridge assembly consists of the projectile and the cartridge case. The projectile is a free flight, fin-stabilized warhead. It is pressed and cemented into the cartridge case. The cartridge case contains a dual-burner propellant, percussion primer, and igniter. The AT-4's overhead features behind-armor secondary effects. (DODIC C995) penetrates the vehicle's armor protection, a high-pressure incendiary effect occurs. This action, which is accompanied by a blinding flash, is designed to effectively knock out the crew of the enemy vehicle, even if the penetration hole is relatively small.

Serviceable	Unserviceable	Total QTY	Maint. Due	Planned Procurement
27.7%	45,757	6,425	52,182	

PMF Inv. CB Procurement DODIC Inv.

NSN
C 1315012454950
Cat. Tech.

* back to top

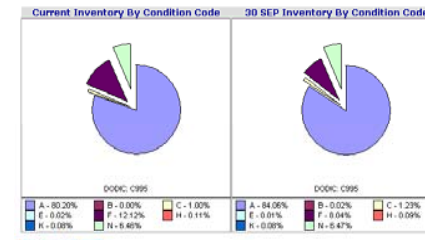
Total Munitions Requirements

7 Yr. Master Maintenance Plan as of 10/1/01

Project No.	
Fiscal Year	
Quantity	
Project Cost	
Component Cost	
Justification:	
Scope of Work:	

Total Munitions Requirements as of 3/7/01

	QTY
Combat Requirements	54,148
Residual Readiness Requirements (RRR)	
Strategic Readiness Requirements (SRR)	
War Reserve Material Requirement (WRMR)	54,148
Training Requirement	2,315
Current Operational Requirement (COR)	
Testing Requirement	199
Training Logistical Support (313 Day Pipeline)	1,985
Testing Training Logistical COR (TTCCOR)	4,429
Total Munitions Requirement (TMR)	58,577
Approved Acquisition Objective (AAO)	56,193

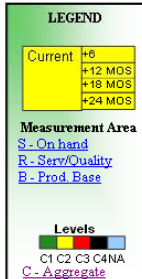
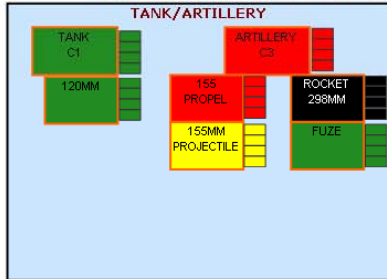


Activity Level
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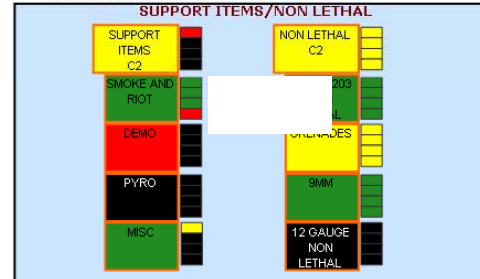
PM Ammunition Overview

Near Term 'S' Total Assets

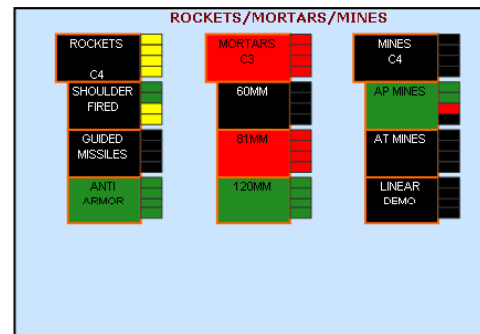
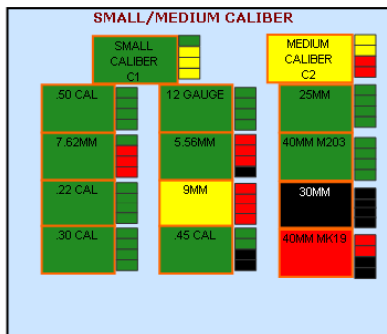


TANK/AT

Data as of 30 Apr 2009 | 1x1



Munitions Readiness Reporting (MRR)



Munitions Requirements

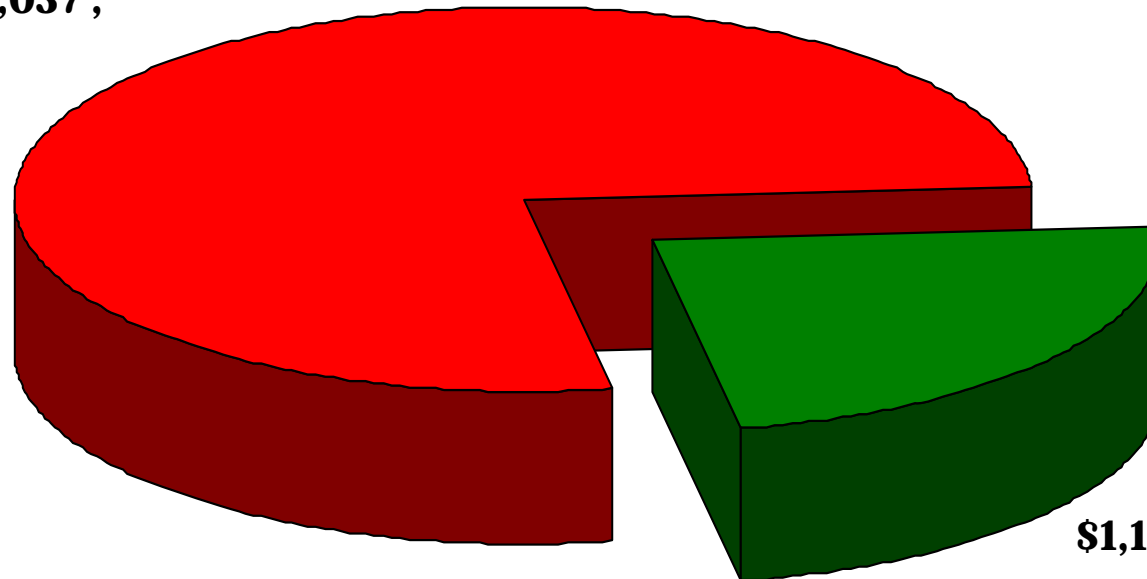
Munitions Requirement Process

- **Total Munitions Requirement (TMR)**
 - **DIRECTED** by DoDI 3000.4/MCO 8000.8 - Munitions Requirements Process
 - **EXECUTED** by Logistics Integration Division, Capabilities Development Directorate, MCCDC
 - **MODELED** based on scenario durations and MCO end-states identified by the DPG, COCOM determined targets, and Marine Forces input.
- **WAR RESERVE MUNITIONS REQUIREMENT (WRMR)**
 - **Combat Requirement (CR)** - The quantity of munitions required to equip a specified force structure to its designated military capability and to meet Combatant Commander's objectives, including munitions needed for overlap.
 - **Current Operations/Forward Presence Requirement (CO/FPR)**- The sum of munitions required to arm forces to conduct current operations and meet forward presence obligations in accordance with the DPG. Forward presence includes Global Naval Force Presence Policy and operations that the National Command Authority (NCA) directs.
 - **Strategic Readiness Requirement (SRR)** - The quantity of munitions needed to arm forces not committed to support combat operations in the assigned MTW's as well as those in the strategic reserve. It also includes any additional munitions requirements generated from treaties or statutory obligations to allies.
- **TESTING and TRAINING REQUIREMENT (TTR)**
 - **Testing (T)** - Surveillance, acceptance testing and production losses of munition items are accounted for in this category.
 - **Training (TR)** - Munitions required to train forces and support Service programs ensuring that weapons and platforms deliver the intended effectiveness (can be stated as an annual requirement, a Future Years Defense Program (FYDP) requirement, and/or projected life cycle of each munition)

Munitions Requirements

POM10 TMR - \$5,025,052,348

\$3,848,547,037 ,
77%

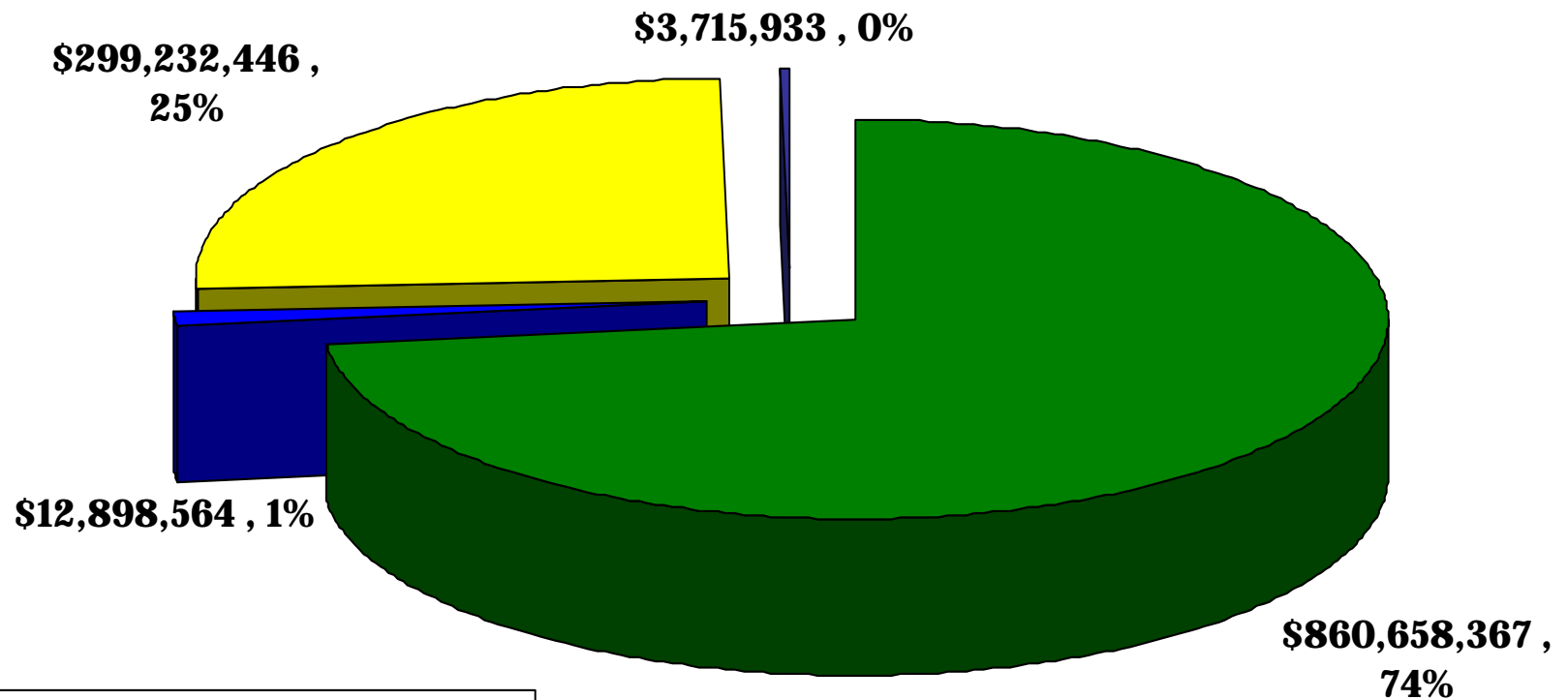


\$1,176,505,311 ,
23%

- War Reserve Munitions Requirement
- Training and Testing Requirement

Munitions Requirements

Testing & Training Requirement (TTR) - \$1,176,505,311



- Annual Training Requirement
- Testing Requirement
- Training Pipeline
- Title 10 Training Requirement

Munitions Requirements

- **Future Requirement Drivers:**

- **Cluster Munitions?**
- **Landmines? (SPIDER, IMS)**
- **25mm Mk 2 SAPHEI-T**
- **USMC Shift to OEF; Artillery, 120MM Mortar**
- **2 Additional Tank Companies (FY11) +28 M1A1's**



- **Shoulder Fired Rockets:**

- **Increase M72 LAAW Procurements**
 - **80% M72A9 ASM; 20% M72A7 AT**
 - **AT4 – War Reserve Only**
- **SMAW II FFE MP Warhead**



Munitions Requirements

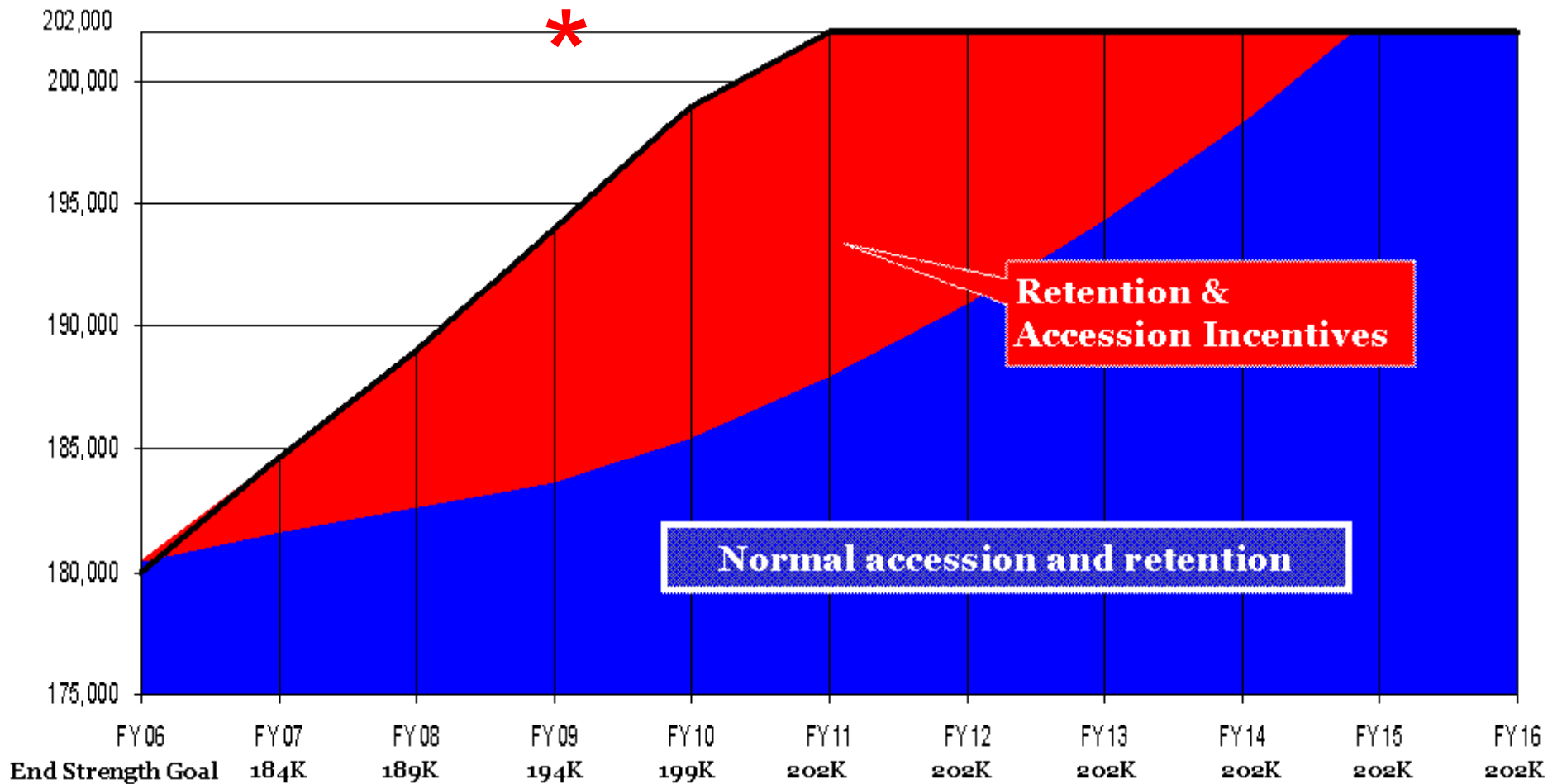
- **Future Requirement Drivers:**
 - **Urgent Universal Needs Statements - Supported**
 - **120MM Canister, M72A7 LAAW, SAA-AP, Foreign Wpns SAA, 155mm Excalibur, 155mm IR**
 - **Urgent Universal Needs Statements - Working**
 - **120MM MP-HE**
 - **capable of point- or delayed-detonation for anti-materiel application or air burst for anti-personnel (fragmentation)**



Munitions Requirements

- **Future Requirement Drivers:**

- **USMC 202K Growth - all heavy shooters**



Munitions Requirements

Product/Service Enhancements

- **FCT:**

- Screening Colored Smoke Grenade (SCSG)
- 66mm Grenade Discharger, Visual and Infra-Red Screening Smoke (VIRSS)
- M72A7 LAAW Insensitive Munitions Effort
- 40MM Low/High Velocity Day/Night Marking

- **SBIR**

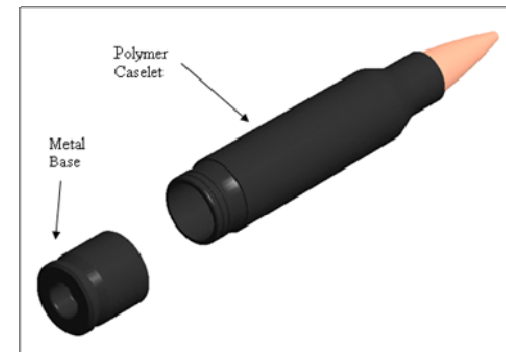
- Red Phosphorus Fill - Mortars

- **TTA (Technology Transition Agreement (ONR))**

- Linear Demo Charge Insensitive Munitions Effort; Supports ABV Survivability

- **TITLE III - Polymer Cased Small Arms Ammunition**

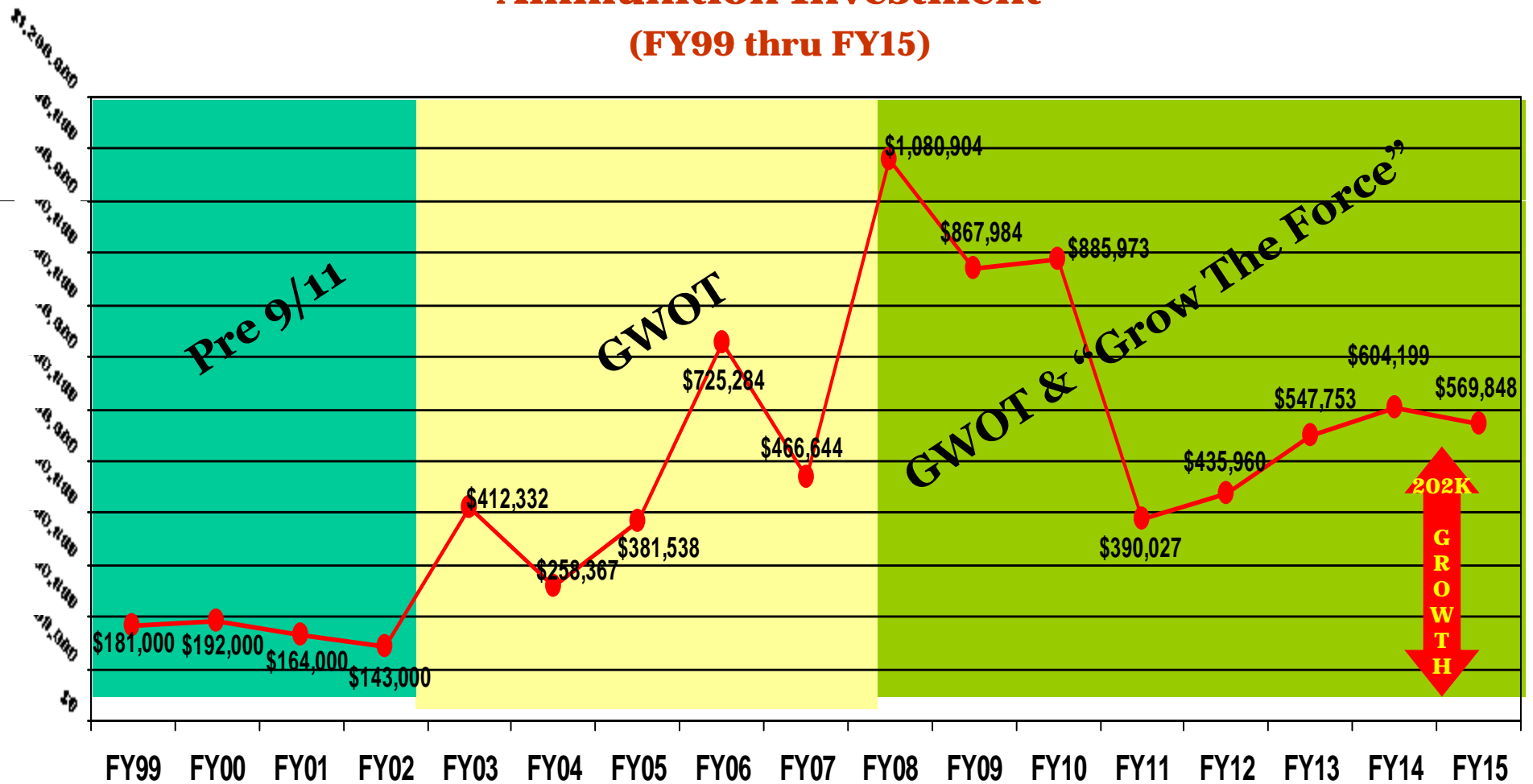
- Two component design: Polymer Caselet & Brass Base
- Benefits (all calibers)
 - Weight savings: 23-25% demonstrated
 - 28-35% indicated (design goal)
 - Same or lower cost in full production
- Calibers in development: 5.56mm, 7.62mm and .50cal



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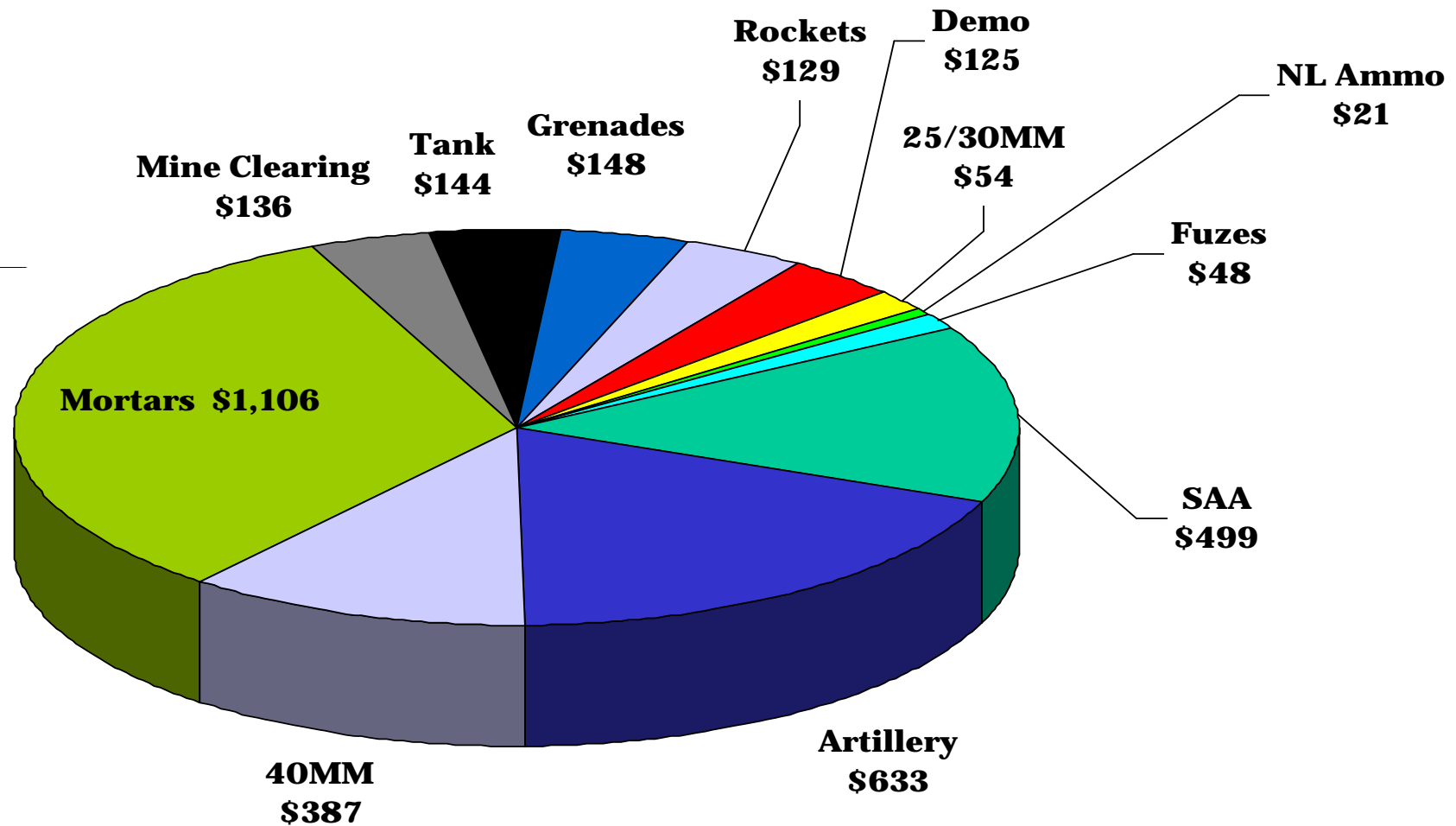
Funding

Ammunition Investment (FY99 thru FY15)



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Funding



FY08-FY13 Procurement Breakout = \$3.6B
(PRESBUD 09)

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Funding

- **Unstable, erratic profiles, bill payer, unknowns**
- **Product Cost**
- **Non-Product – Cost of doing business; FY10-FY15 = (-\$300M)**

\$1.00
PAN&MC



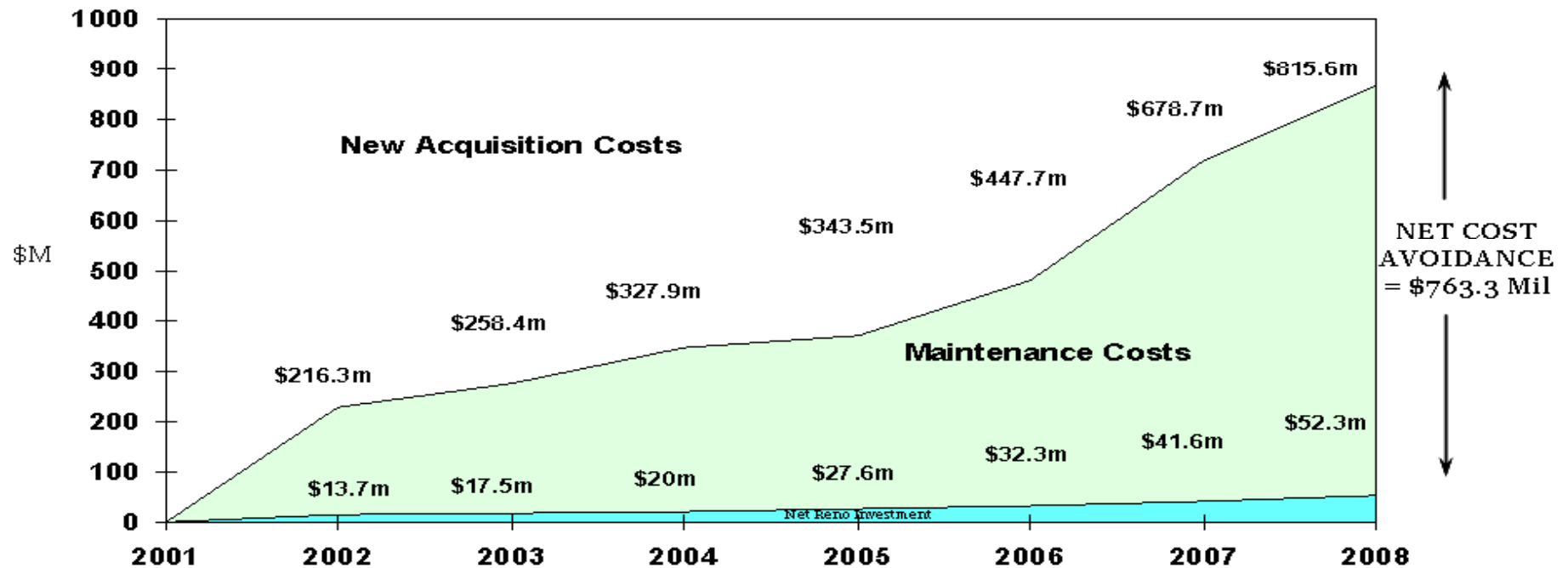
\$0.90
PAN&MC



	FY05,\$K	FY06,\$K	FY07,\$K	FY08,\$K
TOTAL	362,425	627,935	466,644	1,086,989
ESIP	18,121	31,397	23,332	54,349
WUA	7,123	9,473	8,458	12,651
CEOSS	0	0	0	307
Insensitive Munitions Efforts	4,226	3,356	5,300	8,025
Support of Infrastructure	1,000	1,000	1,000	1,000
Navy Qualification of Army Systems	2,000	2,500	2,500	2,500
FDT		4,091	5,101	10,000
TAXES	2,434	2,769	2,536	3,414
Total Adjusted	327,521	573,349	418,417	994,743
%, Adjusted	90.36918	91.30704611	89.66509	91.5135802

Maintenance & Renovation (O&MMC)

- Significant “RETURN ON INVESTMENT” (ROI) vice costlier, new production
 - Ammunition Maintenance Process Guide for Quality (AMPGQ)
 - Automated Data List
 - Missile Round Reset Procedures (RRP)
 - Letter of Instruction LOI
 - DMWR (e.g., 9-1375-M913-F50, REV B)
- Cumulative Return on Investment (ROI).

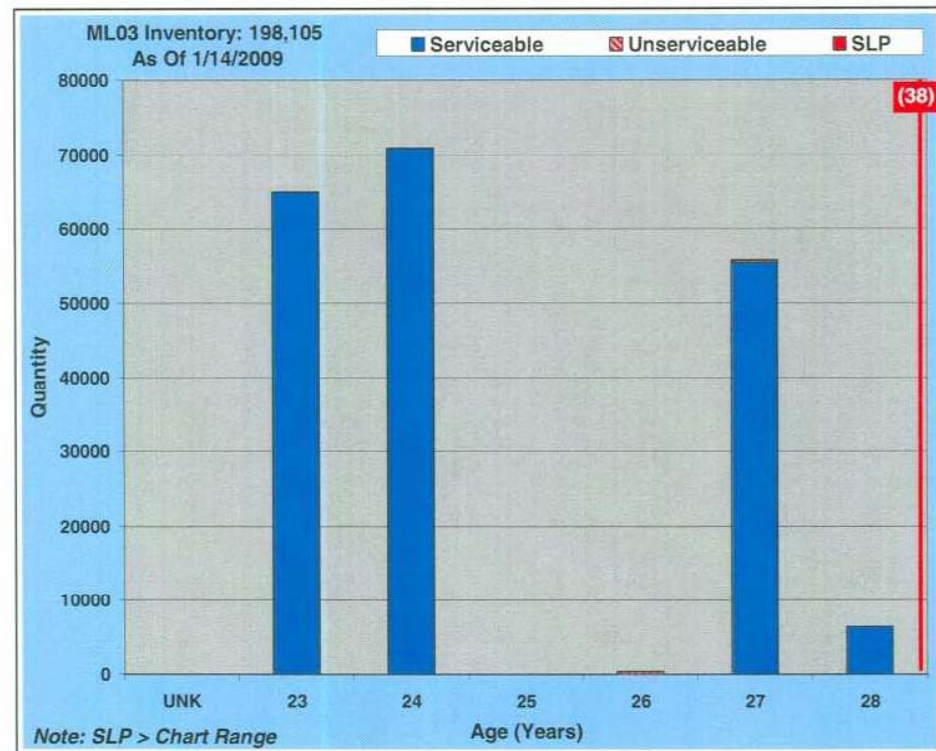


Quality & Reliability

Quality Assurance

“Continuous assessment of the Quality & Reliability of a multi-billion dollar stockpile”

- **Service Life Accelerated Aging Test program (SLAAT) provides a process framework allowing the selection of an appropriate test method linked with an analytical technique to support service life prediction. SLAAT provides stockpile assessment data necessary to make informed management decisions concerning the state of the Marine Corps Ground Conventional Ammunition Stockpile.**

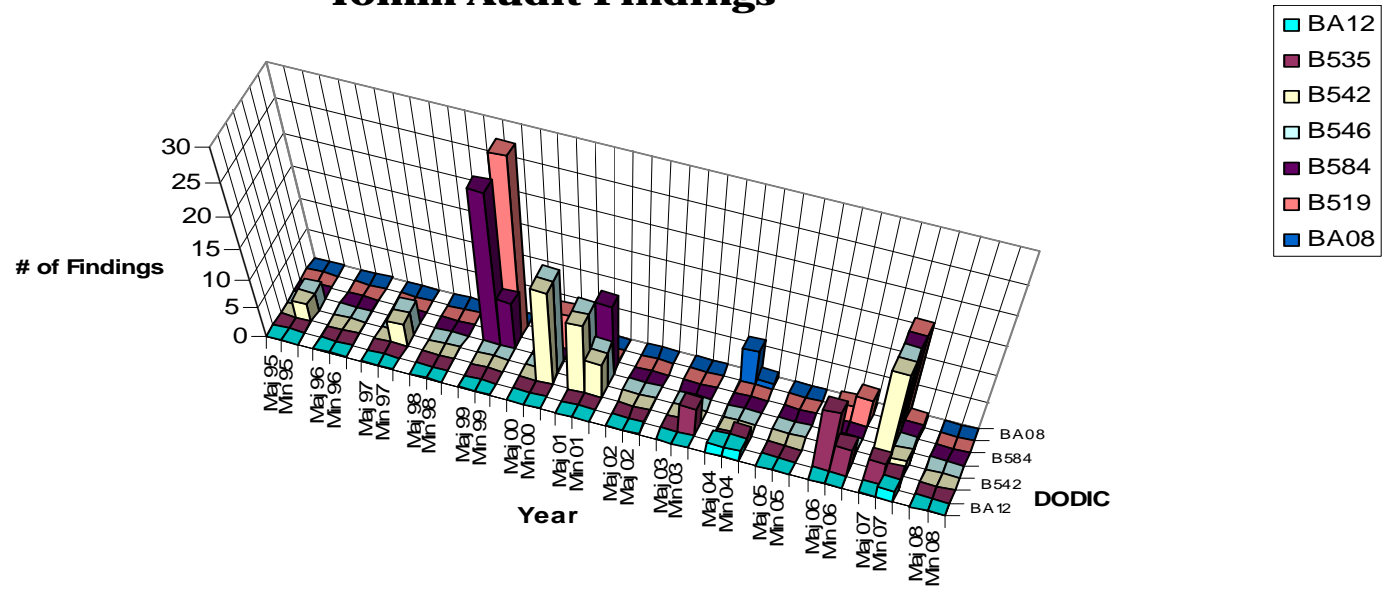




Quality Assurance

40mm Audit Findings

“Continuous assessment of the Quality & Reliability of a multi-billion dollar stockpile”



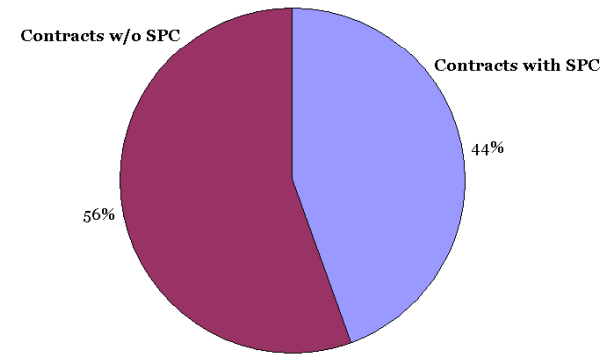
	Maj 95	Min 95	Maj 96	Min 96	Maj 97	Min 97	Maj 98	Min 98	Maj 99	Min 99	Maj 00	Min 00	Maj 01	Min 01	Maj 02	Min 02	Maj 03	Min 03	Maj 04	Min 04	Maj 05	Min 05	Maj 06	Min 06	Maj 07	Min 07	Maj 08	Min 08
BA12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0
B535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	0	0	11	5	4	2	0	0
B542	0	3	0	0	0	4	0	0	0	0	0	16	12	6	0	0	0	0	0	0	0	0	0	0	18	3	0	0
B546	0	3	0	0	0	4	0	0	0	0	0	16	12	6	0	0	0	0	0	0	0	0	0	0	18	3	0	0
B584	0	0	0	0	0	0	0	0	25	8	0	0	0	12	0	0	0	0	0	0	0	0	0	0	18	3	0	0
B519	0	0	0	0	0	0	0	0	5	29	5	6	0	0	0	0	0	0	0	0	0	0	3	5	18	3	0	0

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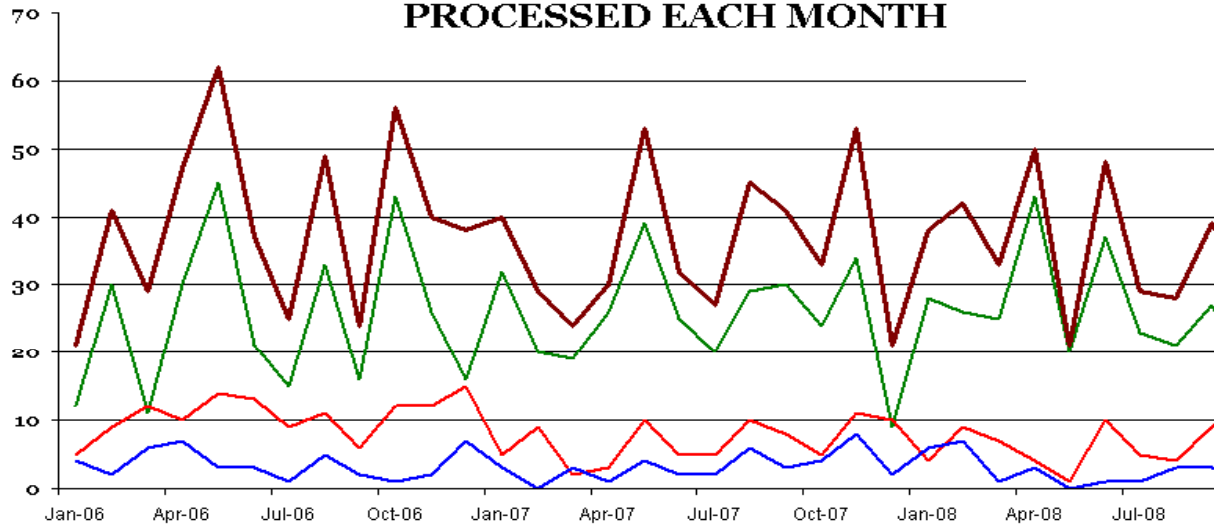
Quality & Reliability

• Continuous and Sustained Improvement

PERCENTAGE OF CONTRACTS WITH SPC



ECP's, RFW's, RFD's
PROCESSED EACH MONTH



	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
ECP	12	30	11	30	45	21	15	33	16	43	26	16	32	20	19	26	39	25	20	29	30	24	34	9	28	26	25	43	20	37	23	21	27	17	25	45
RFD	5	9	12	10	14	13	9	11	6	12	12	15	5	9	2	3	10	5	5	10	8	5	11	10	4	9	7	4	1	10	5	4	9	12	3	6
Totals	21	41	29	47	62	37	25	49	24	56	40	38	40	29	24	30	53	32	27	45	41	33	53	21	38	42	33	50	21	48	29	28	39	30	34	53
RFW	4	2	6	7	3	3	1	5	2	1	2	7	3	0	3	1	4	2	2	6	3	4	8	2	6	7	1	3	0	1	1	3	3	1	6	2

SUPPORTING
THE WARFIGHTER
A MARINE CORPS
TRADITION

Precision

FY08
1st Buy
Excalibur



FY10
1st Buy
PGK



FY??
120MM
Precision Extended
Range Munition



The GWOT Environment

- Annual Live-Fire Training growth
 - Pre 9/11: Average approx. \$220M annual
 - Post 9/11: Average approx. \$320M+ annual
 - Change in TTP and new Pre-deployment Training Packages (PTP)
- Combat Expenditures
- UUNS
- USMC Special Operations Command (MARSOC) – 2,400 Marines
- Investment:
 - \$2,468,000,000 - Baseline Corps Investment FY03-FY10
 - \$2,484,000,000 - Supplemental Funds thru FY03-FY10
- Undefined GWOT Duration, End-Strength Growth, Live-fire Training, War Reserve Stockpile - Risk, Fluid Fiscal Environment, Production Lead-Times, Production Turbulence, PP&O Prioritization, MARCENT focus, new capabilities, Urgent Needs, Special Allowances, etc, etc., etc.....

A banner at the top of the slide features a red background on the left with the text 'SUPPORTING THE WARRIGHTER A MARINE CORPS TRADITION' and the Marine Corps emblem. On the right, there is a photograph of two Marine soldiers in combat gear looking at a device.

SUPPORTING
THE WARRIGHTER
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TRADITION

Summary

The wide range of responsibilities under one Program Manager is unique in that, it provides the Marine Corps with a single point of visibility to assess the quality, quantity, and the positioning of ammunition, and the ability as the occupational field sponsor, to effect supply of that ammunition to Marine Forces.



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Summary

PM Ammo Strategic Plan:

“There are many classes of supply and ours, inherently unique by nature, is the last in terms of use by our Corps. That does not mean last in importance, priority, or criticality to the combat arm of this institution we support. Rather, despite any other commodity, the vehicles, weapons systems, the clothing and equipment, the deliberate planning; despite the mass movement of our Marines, the P-O-L, communication equipment, spare parts, subsistence, etc, ammunition IS the last stage in the war fight. It is that which directly destroys the enemy combatant. Thus it represents the finality of all the preceding events leading up to its use. “

Ammunition...that which makes the tip of the spear, pointy and lethal”

QUESTIONS?