

Munitions Executive Summit USMC Munitions Readiness

30 Mar 16

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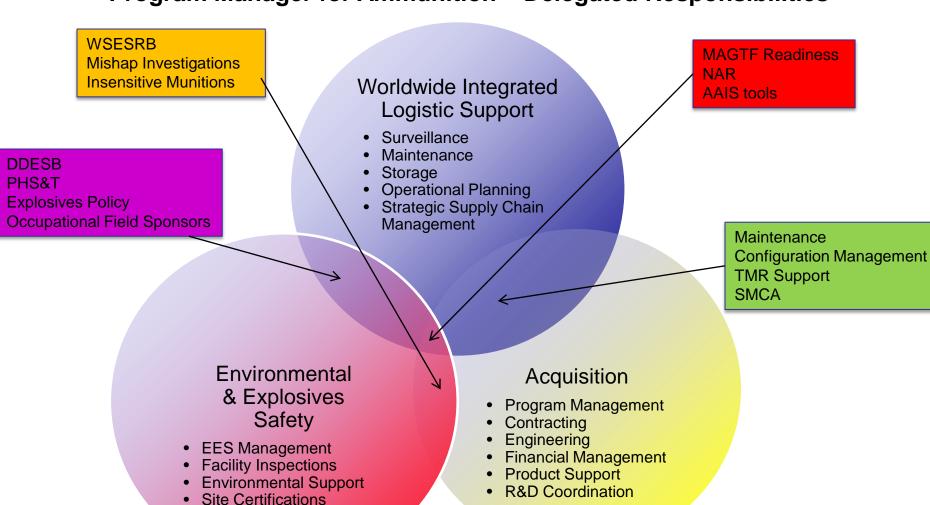


Agenda:

- PM Ammo Overview
- Training Expenditures
- Budget Trends
- Planned Procurements
- Inventory Visualization
- Strategic Plan Update



Program Manager for Ammunition – Delegated Responsibilities





Annual Training Expenditures

- Marine Corps expends between \$500M to \$600M annually for ground ammunition live fire training
- Healthy inventories in some items preclude short-term production requirements
- Top FY15 Capability Training Expenditures (replacement cost):

_	155mm HE Projectile	\$206M
_	81mm HE Mortar	\$56M
_	83mm Assault Rocket (SMAW)	\$45M
_	60mm HE Mortar	\$38M
_	5.56mm Ball	\$26M
_	TOW-2 Guided Missiles	\$23M
_	CTG, 84mm & LNCHR	\$17M
_	MLRS Rocket	\$16M
_	40mm Practice Grenade	\$16M
_	155mm M232 (MACS) Propelling Charge	\$14M
_	40mm HEDP Grenade	\$14M
_	120mm Tank Training Cartridge	\$11M -

\$482M

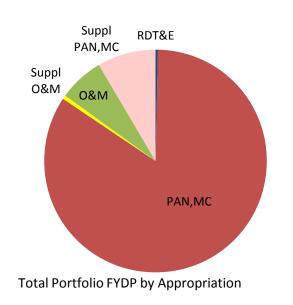
>80% of training expenditures



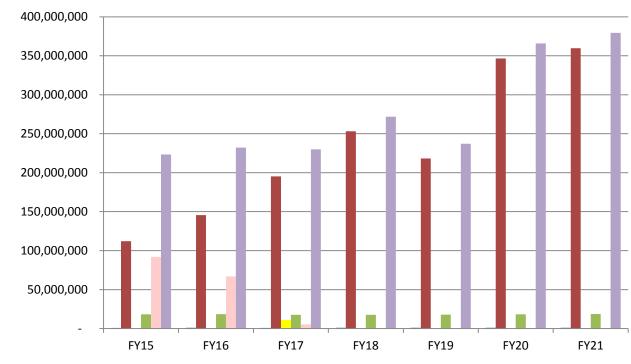
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President's Budget 2017 Information



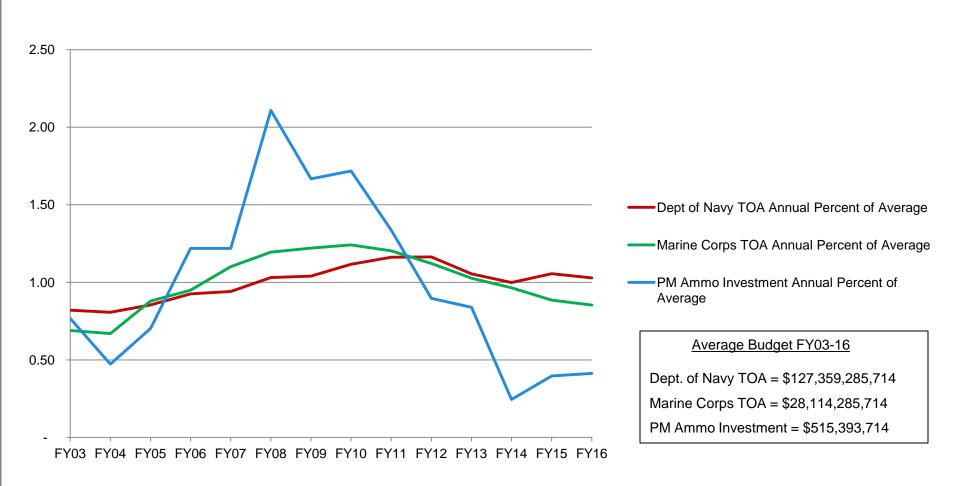
RDT&E 6,928,000
PAN,MC 1,630,638,000
O&M 127,090,000
Suppl PAN,MC 164,341,000
Suppl O&M 11,000,000
Totals 1,939,997,000



Appropriation		FY15	FY16	FY17	FY18	FY19	FY20	FY21	Total
RDT&E		926,000	1,000,000	789,000	1,110,000	1,067,000	1,007,000	1,029,000	6,928,000
PAN,MC		112,036,000	145,654,000	195,296,000	253,139,000	218,210,000	346,619,000	359,684,000	1,630,638,000
0&M		18,336,000	18,573,000	17,617,000	17,621,000	17,932,000	18,303,000	18,708,000	127,090,000
Suppl PAN,MC		92,055,000	66,960,000	5,326,000		-		-	164,341,000
Suppl O&M		-	-	11,000,000	-	-	-	-	11,000,000
Totals		223,353,000	232,187,000	230,028,000	271,870,000	237,209,000	365,929,000	379,421,000	1,939,997,000



Year-to-Year Budget Profile Comparison FY03-16





Class V(W) Ammunition (521 DODICs in current inventory)

Conventional Ground Ammunition President's Budget 17 Funded Ammunition Production

- Small Arms- 5.56mm Ball, 5.56mm SESAMS, 9mm Blank, .50 Cal Reduced Range
- Line Charges- None
- 40mm- Mk281 HV Day/Night Trainer
- 60mm- Full Range Trainer
- 81mm- None
- 120mm- EFSS WP, PERM
- 25mm- None
- Grenades- None
- Rockets- SMAW Practice
- Artillery- 155mm HE (IMX/TNT)
- Demolition- .166in & .333in Demo Sheet
- Fuzes- PGK

Ammunition Life Cycle Management

- Ammunition Automated Information System(s) (AAIS) Operation and Maintenance
- Inventory Control Point (ICP)
 - Supply Chain Management
 - Inventory Management
 - Operational and Sustainment Planning
 - Support to Deployed Forces
 - Inventory Accuracy Oversight
- Maintenance
- Service Life Accelerated Age Testing (SLAAT)
- Environmental and Explosives Safety Management
- Quality Assurance
- Technical Support



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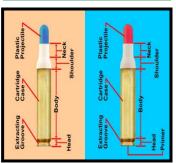


Program

(2) Cartridge (CTG), .50 Cal Reduced Range (RR) (1000 Yards): AB64 and AB65 -CTG, Linked 4API & 1APTI-T (RR) -CTG, Linked Ball (RR)



FY18-Full and Open NSWC Crane CTO Eventual transition to SMCA



(2) CTG, 5.56mm Special Effects Small Arms Marking System (SESAMS): AB05 and AB06

-CTG, 5.56mm SESAMS Blue f/M4/M16

-CTG, 5.56mm SESAMS Red f/M4/M16

FY16-Sole Source & Competitive MCSC CTO



CTG, 9mm Blank: AXX3

-New to the inventory to support Military Working dog training

FY16-Full and Open MCSC Crane CTO Eventual transition to SMCA



CTG, 5.56mm Ball: A059

-Will be used for training until USMC decision on increased lethality round of the future determination

Ongoing production SMCA CTO



Program





40mm Day/ Night Marker (Target Practice, High Velocity), MK281 MOD3: BA21

Procurements FY17-?

MCSC CTO

Full and Open

Will eventually transition to SMCA
managed Day/Night/Thermal Marker



60mm Full Range Practice: M769: BA15

Procurements FY17-SMCA CTO Full and Open



120mm



Program

Strategy



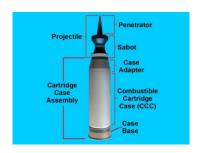
(3) Cartridge, 120mm Mortar EFSS WP, M1103: CA49

FY17 MCSC CTO Sole Source



Projectile, 120mm Mortar
Precision Extended Range Munition:
PERM

In Production
MCSC CTO
Full and Open
Contract Awarded



Cartridge, 120mm Tank Training (TPCSDS-T M865): C785

FY17-19 SMCA CTO Maintenance Project





Program





Rocket, 83mm HEAA Practice, MK7 Mod 0 (SMAW): HX07

Procurements FY17-FY21 SMCA CTO Full and Open Contract Awarded



(3) Projectile,155mm HE (IM, Practice TNT, TNT Legacy): DA54, DA51, D529

Procurements FY17-21 SMCA CTO USMC adopted new training strategy



Demo Fuzes



Program

Strategy



(2) Charge, Demolition Sheet, .166in, .333in: M982, M986

Procurement FY17 SMCA CTO Full and Open



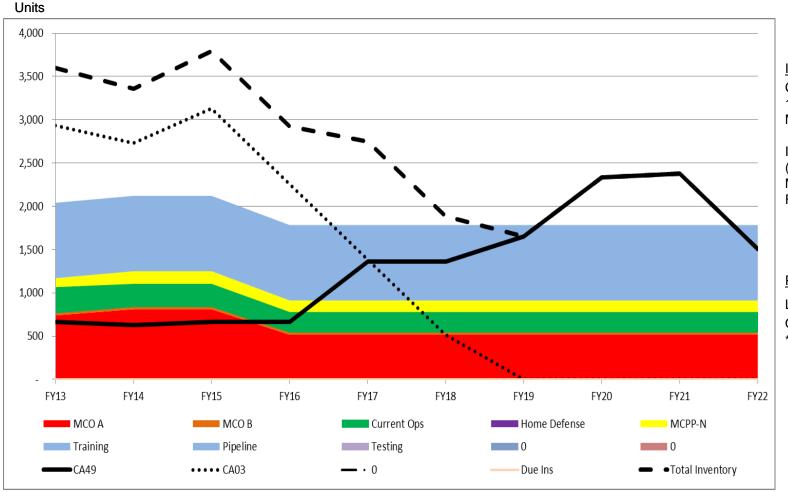
Fuze, Precision Guidance Kit M1156 (PGK): NA29 Procurements FY17-21 SMCA CTO Full and Open Contract Awarded



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CA49 Sandchart





Item Data:
Cartridge,
120mm Mortar WP
M1103

Interchangeable = **CA03**, (120mm Smoke WP M929A1 w/MOF M734A1 Fuze)

Production:

Lead Time = 18 mos. Open Line = No ** Unit Price = \$7,173

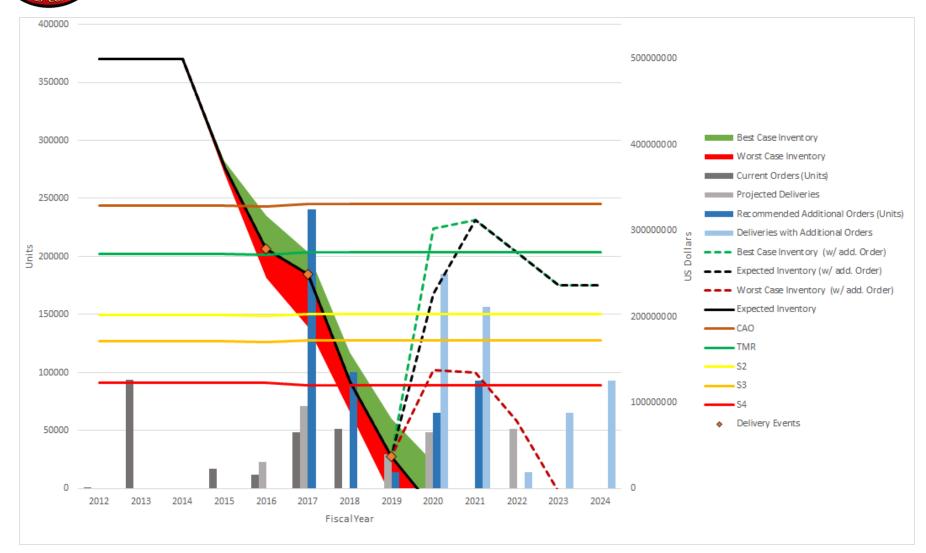
- FY13-15 ending inventories are actual 30 Sep balances. FY16 and beyond inventory balances are derived by adding projected due-ins, projected procurements PB-17, and subtracting POM-18 TMR training and testing requirements.
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Improved Inventory Visualization





Published PM Ammunition 2015-2018 Strategic Plan

Goals

- Provide Marines the highest quality, most cost effective ammunition.
- Optimize processes, tools and resources of the USMC Ammunition enterprise.
- Continuously improve our professional credibility.

Select Objectives

- Ensure maximum availability of safe and effective ammunition inventory to satisfy the TMR within allocated funding.
- Optimize USMC Class V(W) supply chain management.
- Optimize IT tools and knowledge engineering to support our mission and business practices.
- Engage partners in other Services and Industries to accomplish the mission, vision and goals of this strategic plan.

Published PM Ammunition 2015-2018 Strategic Plan

Select Complete Actions

- Develop an integrated strategy that balances ammunition inventory shortfalls with the optimal means to achieve addressing them.
- Develop a competition goal.
- Document phasing plan review and approval process.

Select In-Process Actions

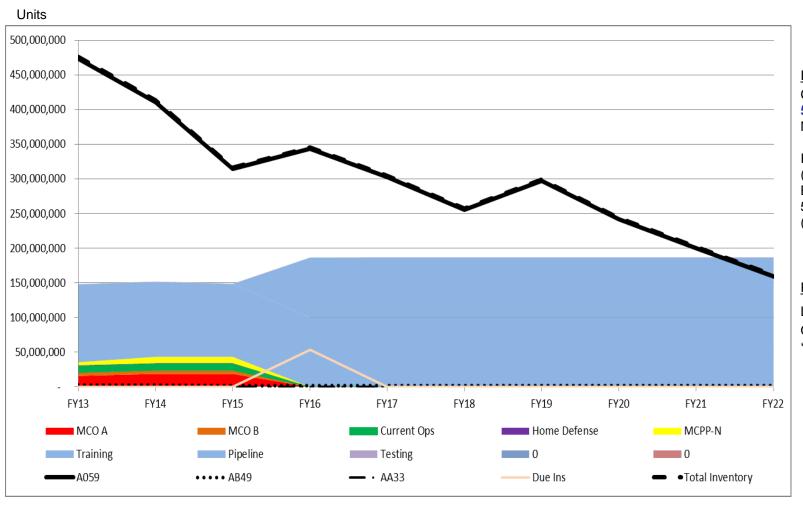
- Develop a plan for resource investment in and exploitation of munitions safety improvement technologies.
- Review "as-is" business processes to identify supply chain process gaps and implement improvements.
- Review Ammunition Automated Information Systems (AAIS) management, maintenance and usage practices for effectiveness and efficiency, and create an AAIS optimization roadmap.
- Perform a stakeholder analysis.
- Develop a strategic communications plan.
- Reinvigorate the PM Ammunition roadshow.
- Identify key business performance metrics.

Sand charts



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Item Data: Cartridge, **5.56mm Ball** M855 10/Clip

Interchangeable = AB49 (5.56mm Ball Carbine Barrier), AA33 (Ctg, 5.56mm Ball M855 (commercial pk))

Production:

Lead Time = 13 mos Open Line = Yes ** Unit Price = \$0.25

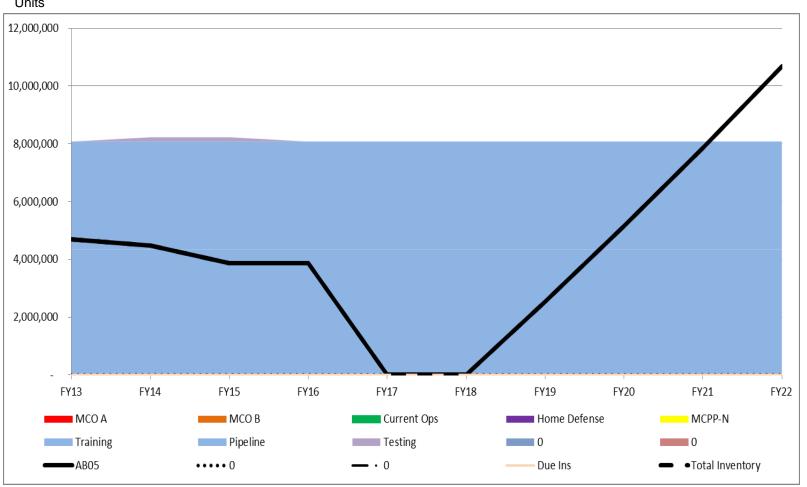
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AB05







Item Data: Cartridge,

5.56mm Clipped **FX Blue Marking**

MK302 Mod 0

Interchangeable = NA

Production:

Lead Time = 13 mos. Open Line = Yes ** Unit Price = \$0.55

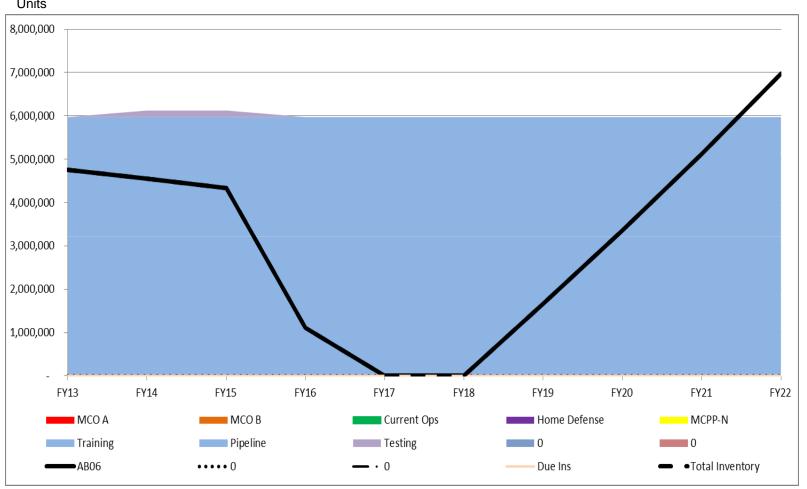
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AB06







Item Data: Cartridge, 5.56mm Clipped **FX Red Marking** MK303 Mod 0

Interchangeable = NA

Production:

Lead Time = 13 mos. Open Line = Yes ** Unit Price = \$0.55

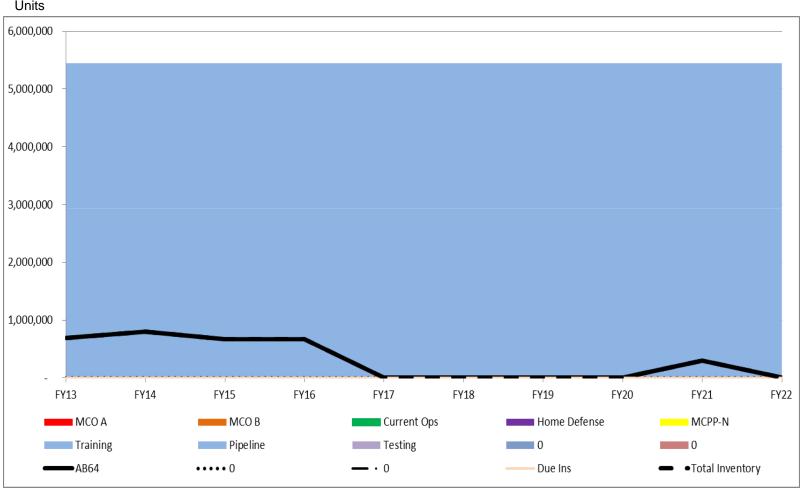
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AB64







Item Data: Cartridge, Caliber .50 4 Ball

MK322/1 Tracer MK3221 Linked

Interchangeable = NA

Production:

Lead Time = 13 mos. Open Line = No ** Unit Price = \$3.82

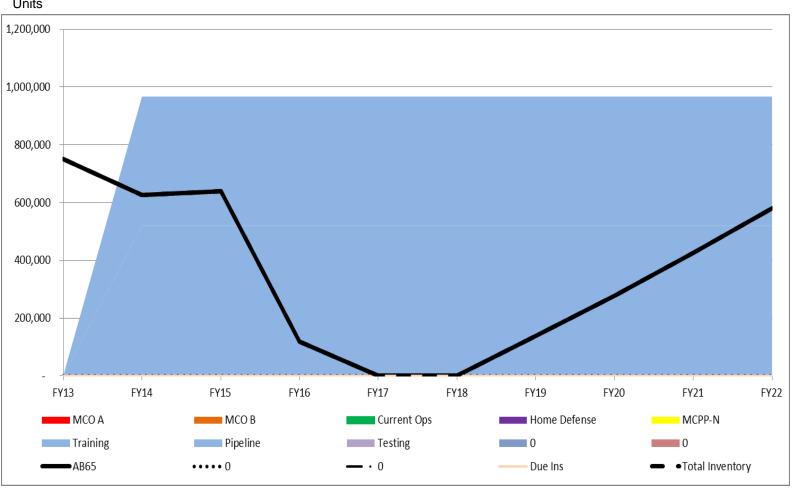
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AB65







Item Data: Cartridge, Caliber .50 4 Ball (MK322) Linked

Interchangeable = NA

Production:

Lead Time = 13 mos. Open Line = Yes ** Unit Price = \$4.14

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MCO A

Training

■AXX3

MCO B

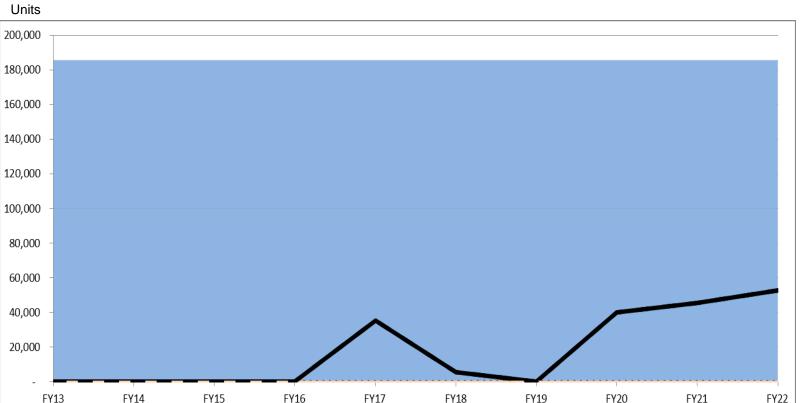
Pipeline

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AXX3





Item Data:
Cartridge,
9mm Blank Single
Round, New

Interchangeable = NA

Production:

Lead Time = 13 mos. Open Line = Yes ** Unit Price = \$1.10

■ Home Defense

Due Ins

MCPP-N

Total Inventory

Current Ops

Testing Testing

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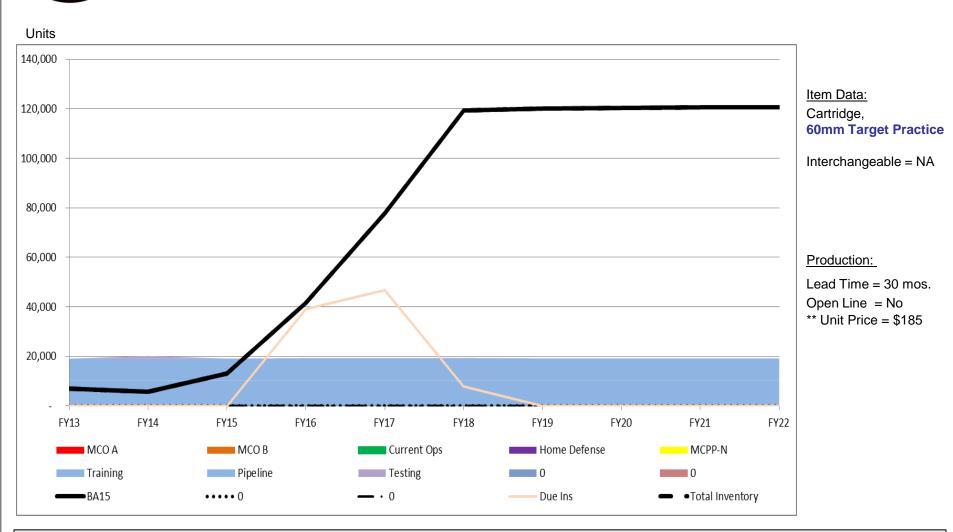
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BA15





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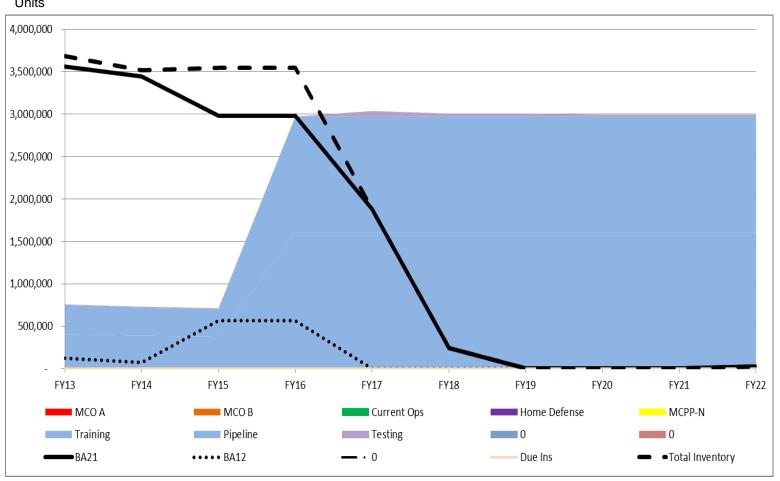
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Item Data:

Cartridge. **40mm Practice**

(Day/Night)

MK281 MOD3 Linked

Interchangeable = **BA12** (Ctg, 40mm Prac MK281 MOD 0 Linked)

Production:

Lead Time = 24 mos.

Open Line = No

** Unit Price = \$35.50

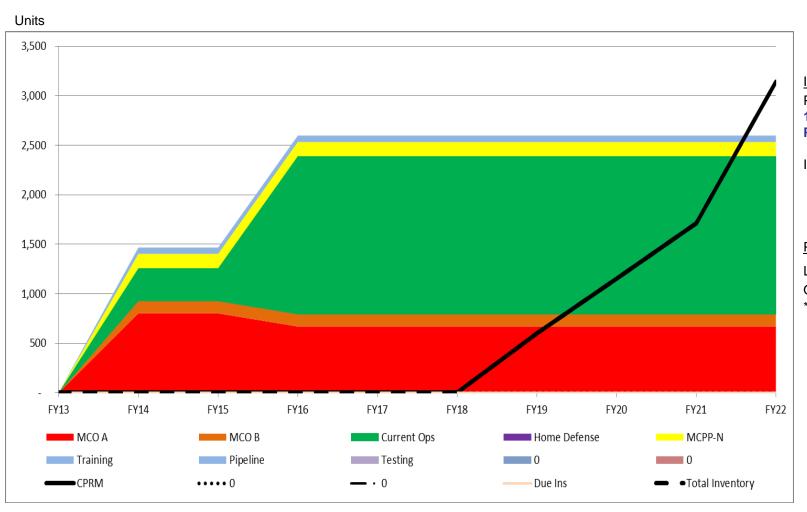
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Item Data:
Projectile,
120mm Mortar
PERM

Interchangeable = NA

Production:

Lead Time = 18 mos. Open Line = No ** Unit Price = \$29,527

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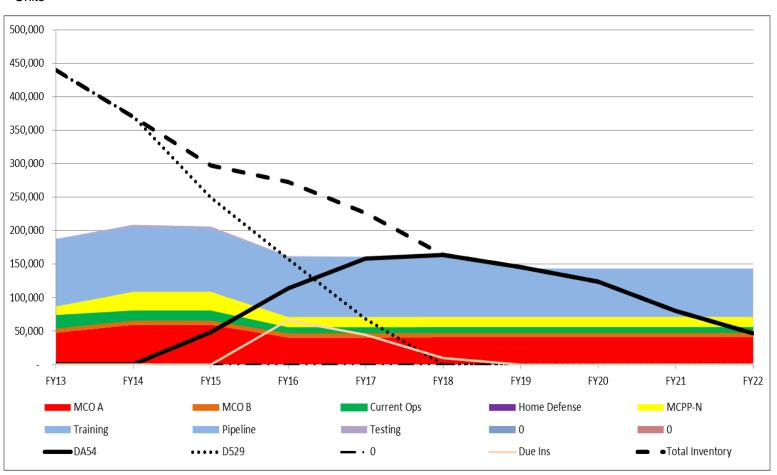


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Units



Item Data:

Projectile, 155mm HE

(IMX-101) w/Supp Charge

Interchangeable = **D529** (Proj, 155mm Ext Rng M795)

Production:

Lead Time = 30 mos. Open Line = Yes ** Unit Price = \$1,208

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MCO A

Training

HX07

MCO B

Pipeline

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MARINE CORPS SYSTEMS COMMAND

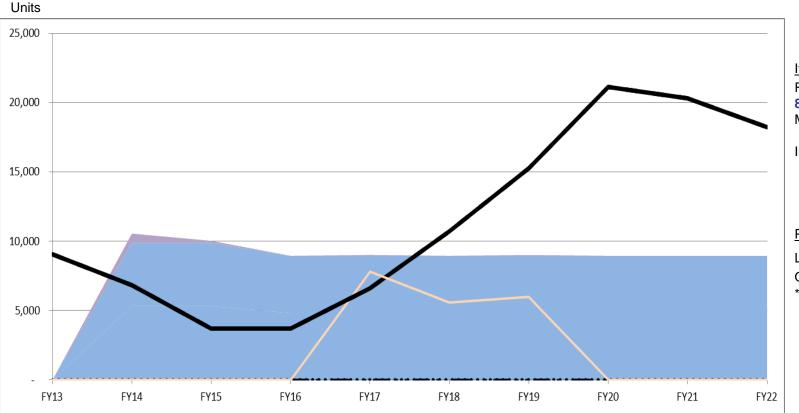
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MCPP-N

Total Inventory





Item Data:
Rocket,
83mm HEAA Practice
MK7 Mod 0 (SMAW)

Interchangeable = NA

Production:

Lead Time = 24 mos. Open Line = Yes ** Unit Price = \$6,322

Home Defense

Due Ins

Current Ops

Testing

- • 0

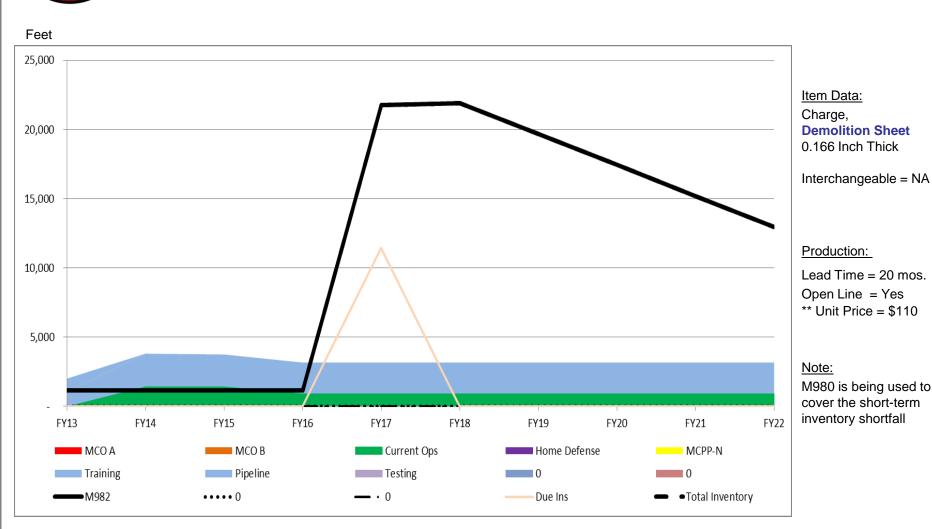
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M982





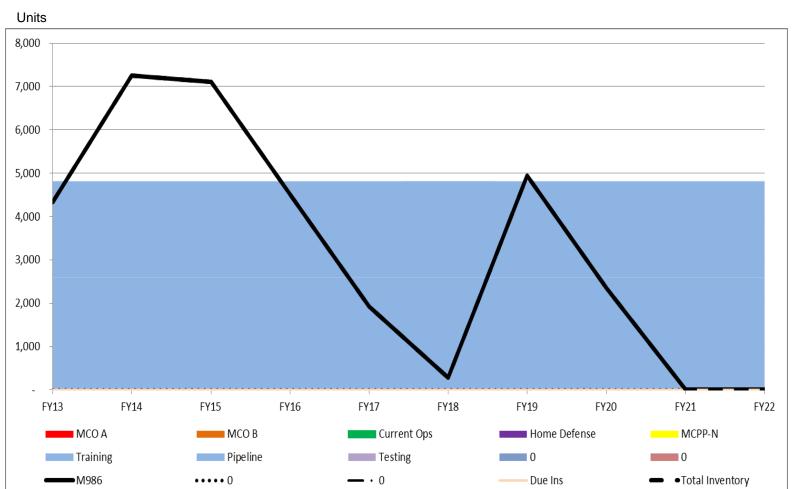
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Item Data: Charge, **Demolition Sheet** 0.333 Inch Thick

Interchangeable = NA

Production:

Lead Time = 18 mos. Open Line = Yes ** Unit Price = \$270

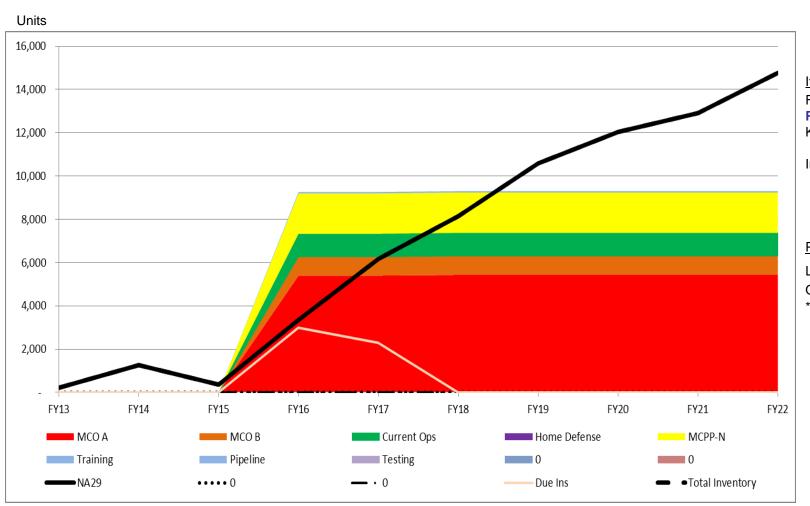
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Item Data:
Fuze,
Precision Guidance
Kit M1156

Interchangeable = NA

Production:

Lead Time = 13 mos. Open Line = Yes ** Unit Price = \$10,017

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