



MARINE CORPS SYSTEMS COMMAND

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PROGRAM
MANAGER
AMMUNITION



Munitions Executive Summit USMC Munitions Readiness

28 Mar 17

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PROGRAM MANAGER AMMUNITION

Agenda:

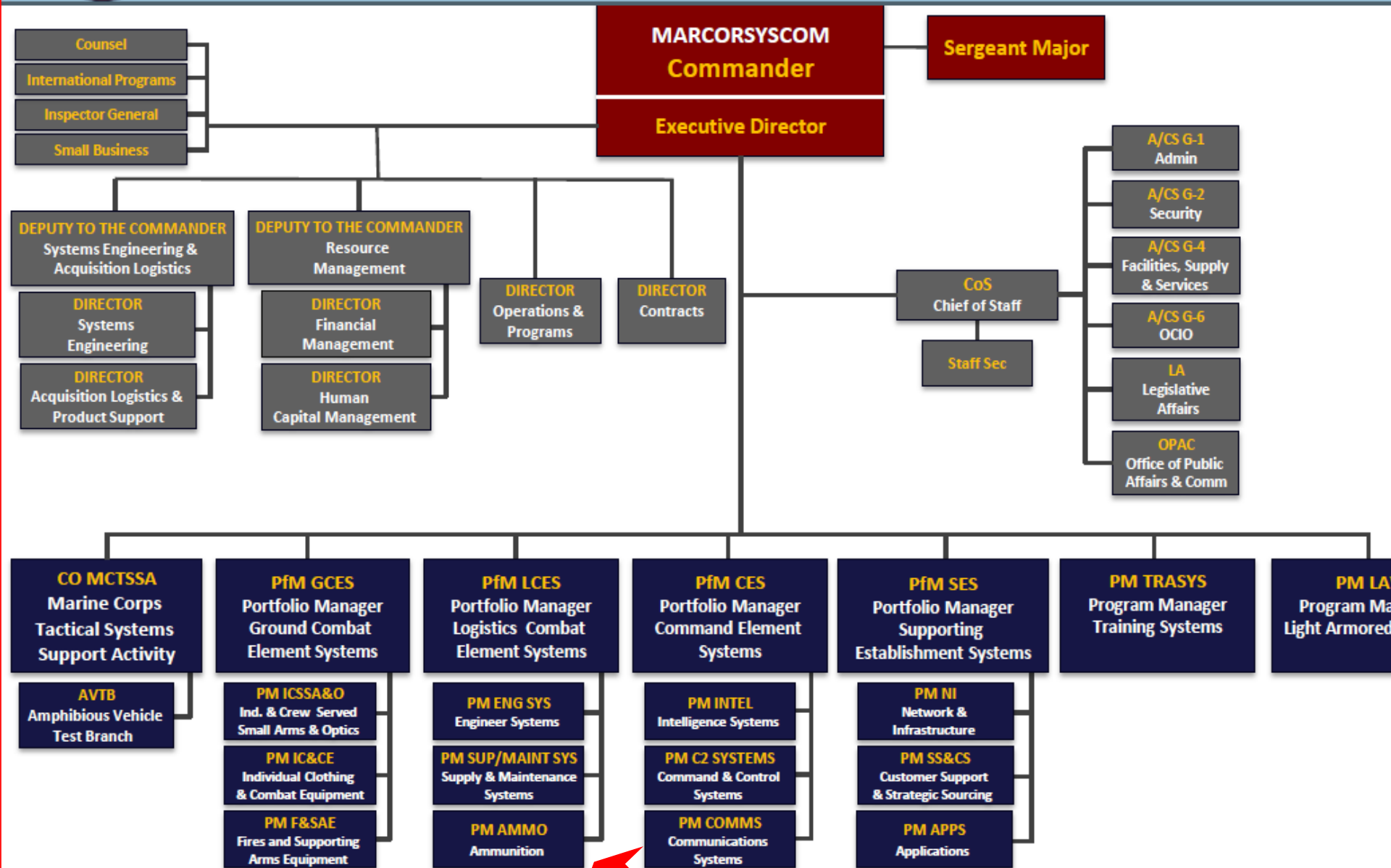
- PM Ammo Overview
- Training Expenditures
- Budget Trends
- Planned Procurements
- Strategic Plan Update



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Organization Chart





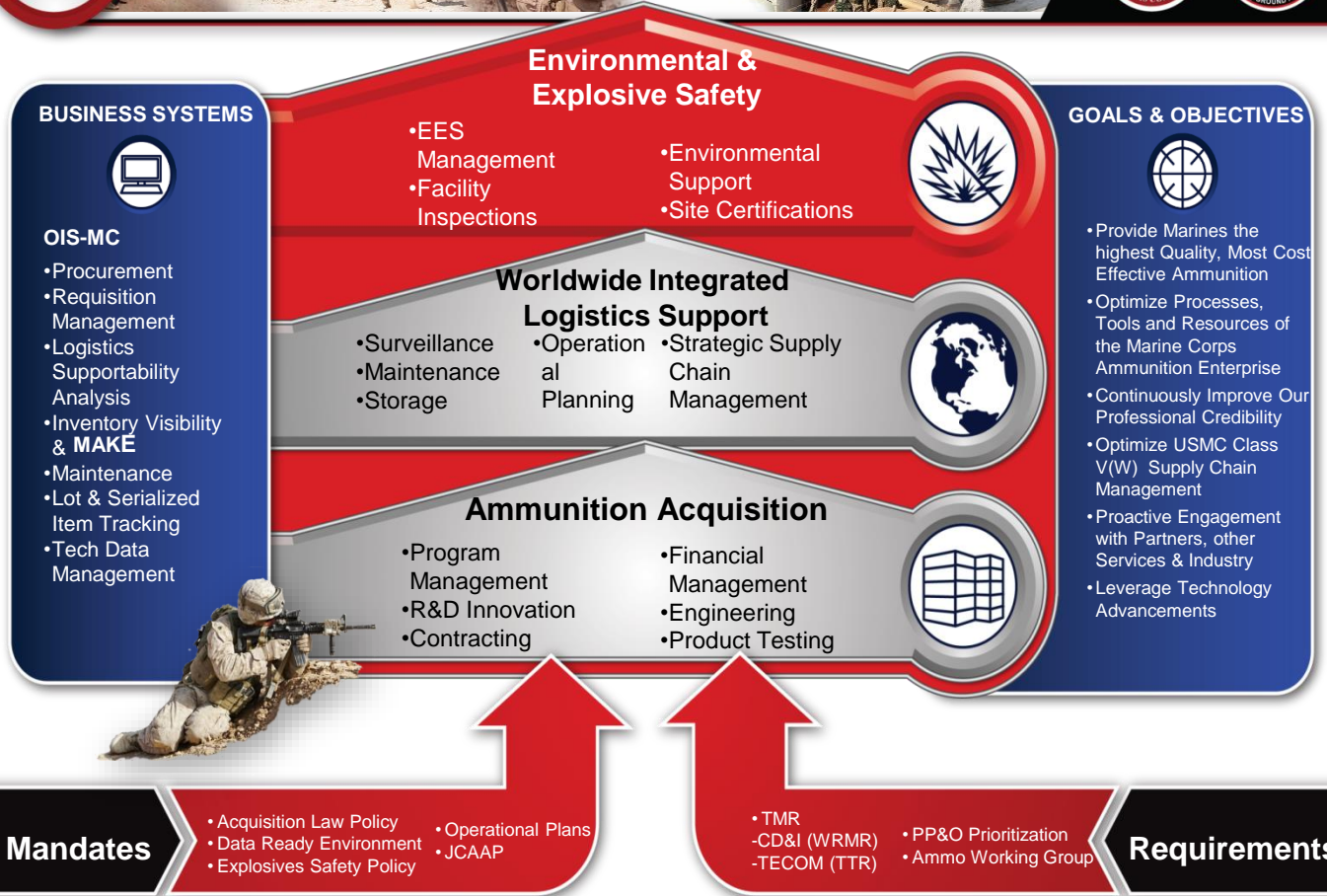
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**PROGRAM
MANAGER
AMMUNITION**

Equipping Marine Forces with the Most Capable, High Quality, and Cost Effective Class V(W) Supply





Annual Training Expenditures

- Marine Corps annually expends between \$500M to \$600M in ground ammunition to support live fire training
- Healthy inventories in some items preclude short-term production requirements
- Top FY15 and FY16 Capability Training Expenditures (replacement cost):

FY15

-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

FY16

-155mm HE Projectile	\$127M
-81mm HE Mortar	\$42M
-83mm Assault Rocket (SMAW)	\$43M
-60mm HE Mortar	\$51M
-5.56mm Ball	\$26M
-Javelin & TOW Missiles	\$29M
-50 Cal Ball Linked	\$12M
-MLRS Rocket	\$7M
-40mm Practice Grenade	\$21M
-155mm M231 & M232 (MACS) PropChg	\$30M
-40mm HEDP Grenade	\$17M
-120mm Tank Training Cartridge	\$19M
-Stinger Missiles	\$52M

\$476m >73% of training
expenditures



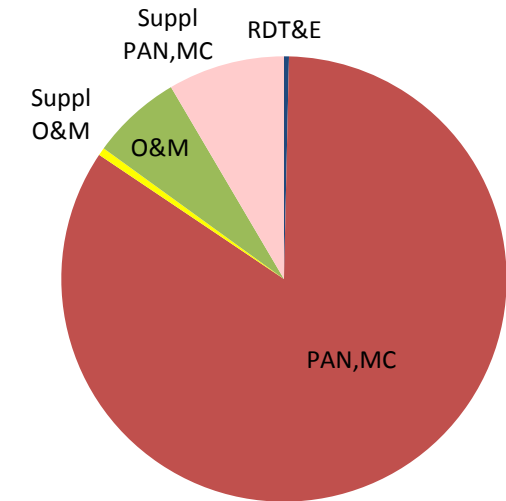
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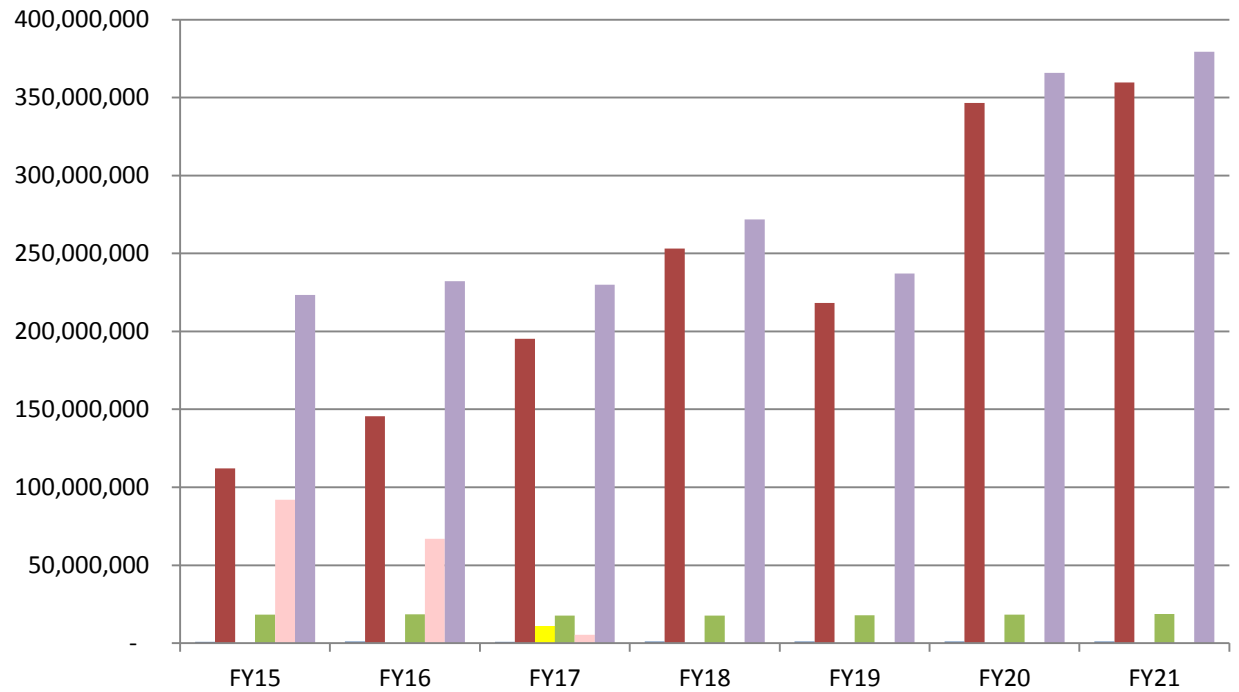
PROGRAM MANAGER AMMUNITION

President's Budget 2017 Information



Total Portfolio FYDP by Appropriation

	Total
RDT&E	7,308,000
PAN,MC	1,642,238,000
O&M	127,090,000
Suppl PAN,MC	164,341,000
Suppl O&M	11,000,000



Appropriation	FY15	FY16	FY17	FY18	FY19	FY20	FY21	Total
RDT&E	926,000	1,000,000	1,169,000	1,110,000	1,067,000	1,007,000	1,029,000	7,308,000
PAN,MC	112,036,000	145,654,000	206,896,000	253,139,000	218,210,000	346,619,000	359,684,000	1,642,238,000
O&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	242,008,000	271,870,000	237,209,000	365,929,000	379,421,000	1,951,977,000



Congressional Marks for FY17

- Small Arms -\$.936M
- 40mm -\$1.570M
- 120mm -\$6.33M
- Grenades -\$.972M
- Rockets -\$1.75M
- Artillery - \$3.75M
- Fuze - \$5.448M
- Less Than 5 Million - \$4.0M



Marine Corps Budget Format Change

Consolidated BLINS

- Infantry Weapons (*New*)
 - Small Arms (*Old*)
 - 25mm (*Old*)
 - 40mm (*Old*)
- Combat Support Munitions (*New*)
 - Non Lethals (*Old*)
 - Demo (*Old*)
 - Grenades (*Old*)
 - L/C (*Old*)
- Direct Fire (*New*)
 - Rockets (*Old*)
 - 120mm (*Old*)
- Artillery (*New*)
 - Artillery (*Old*)
 - Fuzes (*Old*)
- Mortars (*New*)
 - 60mm (*Old*)
 - 81mm (*Old*)



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 SESAM, 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



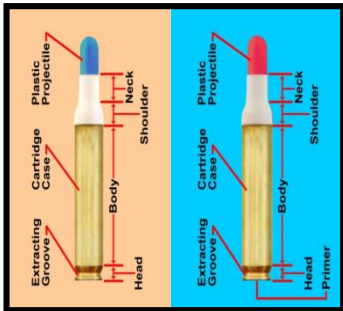
Program

Strategy



- (2) Cartridge (CTG), .50 Cal Reduced Range (RR) (1000 Yards): AC14 and AC15
 - CTG, Linked 4API & 1APTI-T (RR)
 - CTG, Linked Ball (RR)

- FY17-
 - Full and Open
 - NSWC Crane CTO
 - Eventual transition to SMCA



- (2) CTG, 5.56mm Special Effects Small Arms Marking (SESAMS): AB05 and AB06
 - CTG, 5.56mm SESAMS Blue f/M4/M16
 - CTG, 5.56mm SESAMS Red f/M4/M16

- FY17-
 - Sole Source & Competitive
 - MCSC CTO



- CTG, 9mm Blank: AC07
 - New to the inventory to support Military Working dog training

- FY16-
 - Sole Source
 - MCSC Crane CTO
 - Eventual transition to SMCA



- CTG, 5.56mm Ball: A059/AC12/AB57
 - Will be used for training until USMC decision on increased lethality round of the future determination

- Ongoing production
- SMCA CTO



Program

Strategy



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

Procurements FY17
MCSC CTO
Sole Source Bridge
Will eventually transition to SMCA
managed Day/Night/Thermal Marker



60mm Full Range Practice:
M769: BA15

Procurements FY17-
SMCA CTO
Full and Open
Marine Corps adopting more training unique
ammo



Program

Strategy



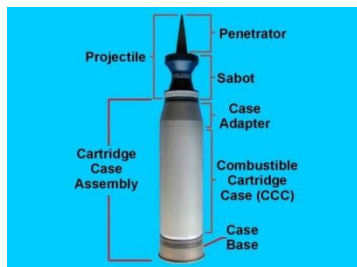
(3) Cartridge, 120mm Mortar EFSS
WP, M1103: CA49

FY17
Switch to 120mm Smoothbore WP
SMCA CTO



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

Strategy



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

Procurements FY17-FY21
SMCA CTO



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

Procurements FY17-21
SMCA CTO
USMC adopted new
training strategy



Program

Strategy



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

Procurement FY17
SMCA CTO



Fuze, Precision Guidance Kit
M1156 (PGK): NA29

Procurements FY17-21
SMCA CTO



Published PM Ammunition 2017-2020 Strategic Plan

- **Goals**
 - Maintain & Improve the high quality people that makeup PM Ammo.
 - Provide Marines with the highest quality, most cost effective ammunition.
 - Optimize processes and tools of the Marine Corps ammunition enterprise.
 - Continuously Improve PM Ammunition Professional Credibility.
- **Select Objectives**
 - Ensure maximum availability of safe, reliable and effective ammunition inventory to satisfy the TMR.
 - Optimize ammunition supply chain, IT tools and Knowledge Engineering processes.
 - Ensure PM Ammo training requirements are defined and training is available to PM Ammo personnel.
 - Use appropriate procurement & acquisition tools to obtain the best value within available resources.



Published PM Ammunition 2017-2020 Strategic Plan

- **Select In-Process Actions**

- Maintain integrated strategy that balances ammunition inventory shortfalls with the optimal means to achieve addressing them.
- Develop process to determine ammunition life cycle management (ALCM) funding requirements and communicate associated return on investment.
- Create a strategy to prioritize and implement technology (i.e. Insensitive Munitions and technology roadmap).
- Develop process to regularly collect and evaluate customer requirements/expectations information and prepare response accordingly.
- Update Inventory Management Operating Strategy including regionalized logistics, lot grading, stockage objectives, sourcing rules, safety stock levels and reporting guidance, and a review of published policy and direction.
- Perform a business system review and mapping analysis.



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Sand charts



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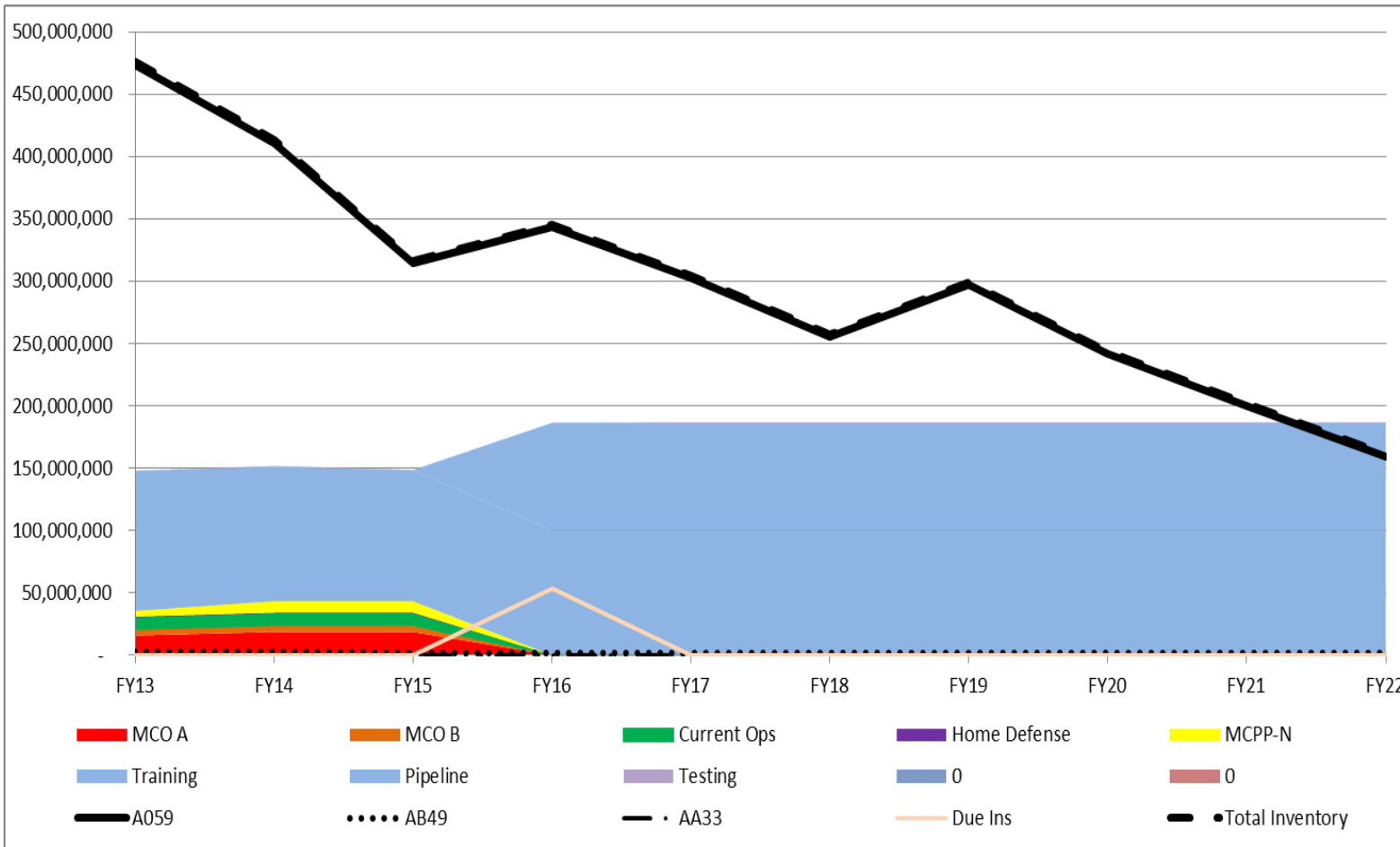
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A059



**PROGRAM
MANAGER
AMMUNITION**

Units



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

* 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.

** Unit Price is based on current FY15 Procurement/Replacement Cost Estimate unless specific Army pricing has been provided.



MARINE CORPS SYSTEMS COMMAND

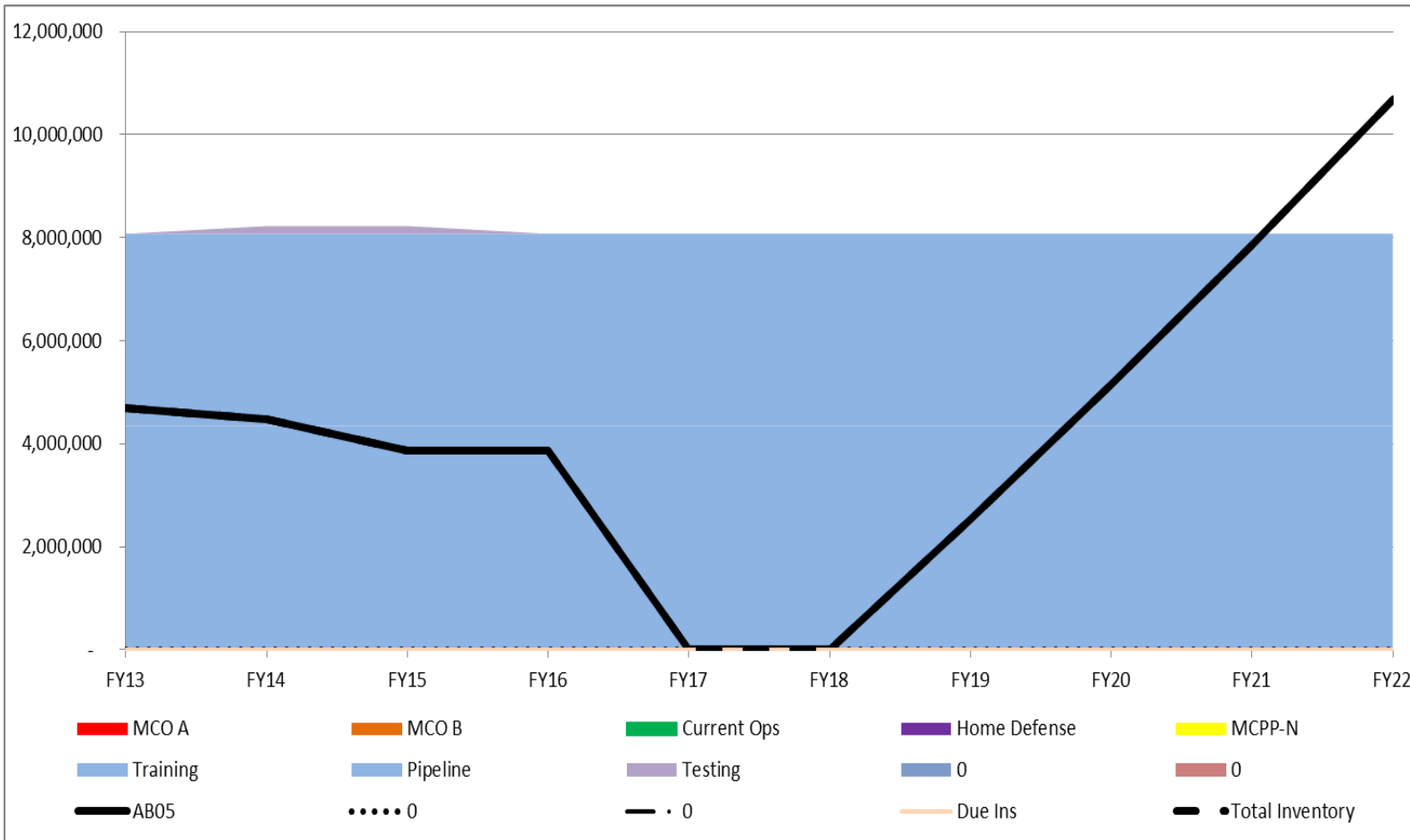
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AB05



PROGRAM MANAGER AMMUNITION

Units



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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MARINE CORPS SYSTEMS COMMAND

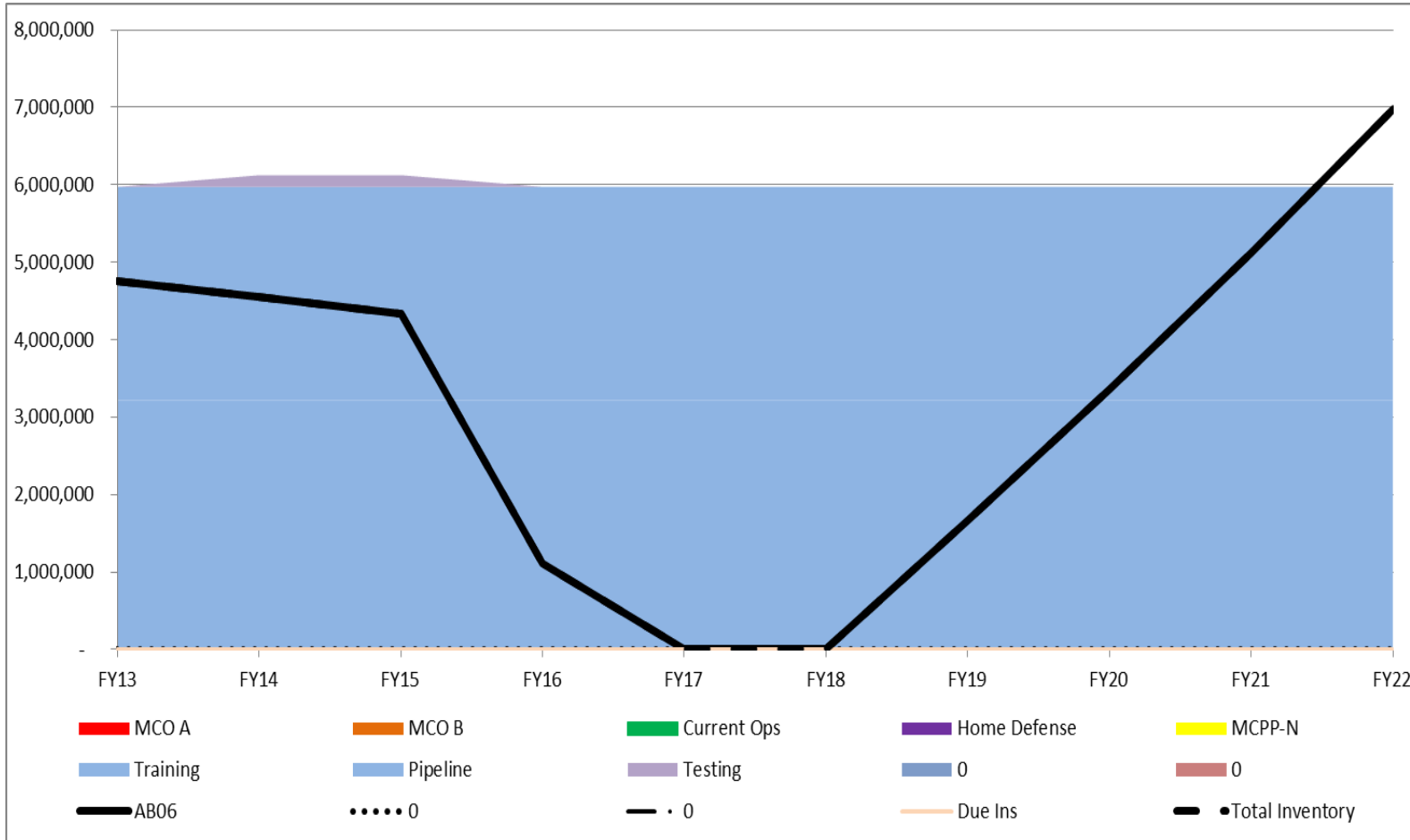
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AB06



**PROGRAM
MANAGER
AMMUNITION**

Units



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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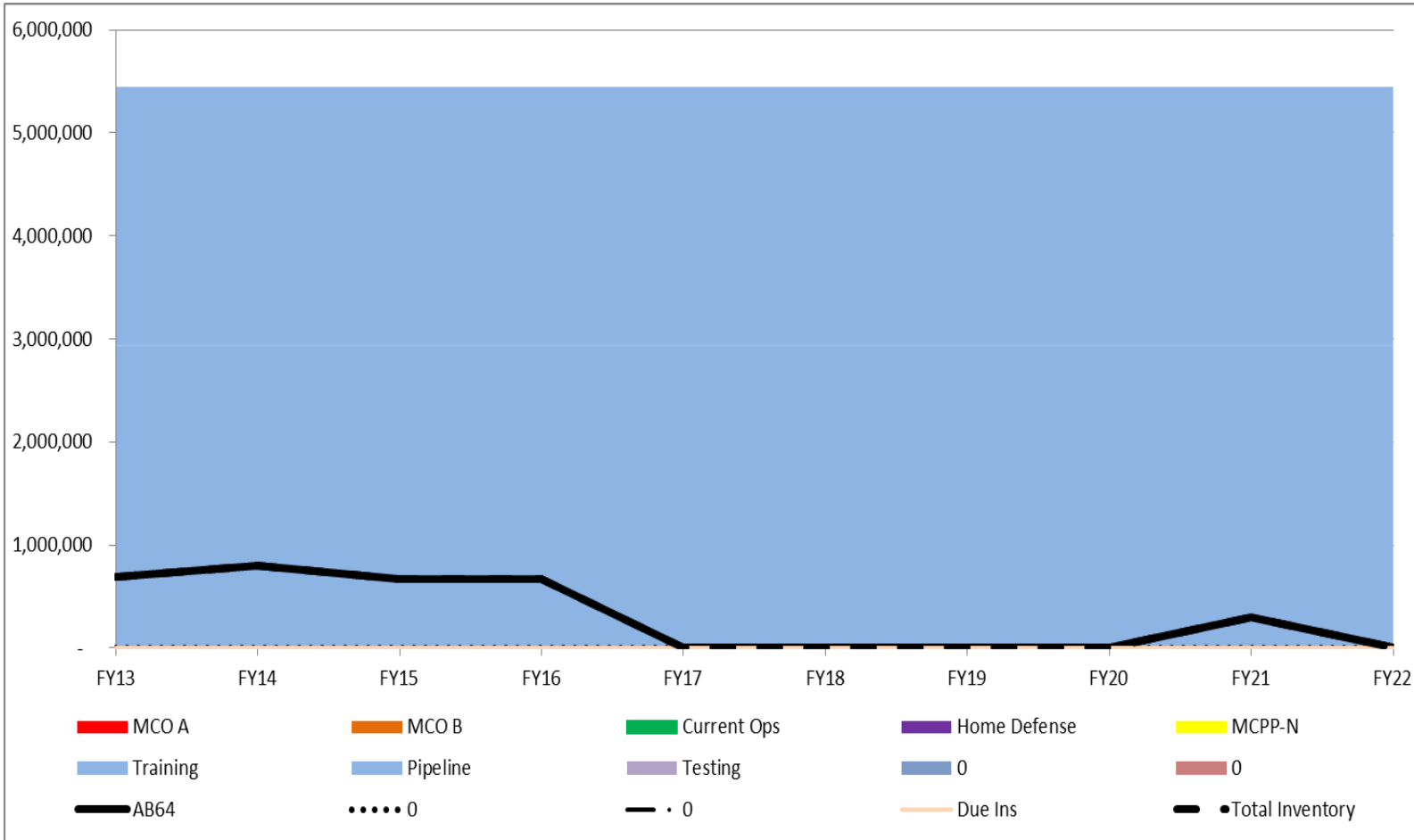
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AB64



**PROGRAM
MANAGER
AMMUNITION**

Units



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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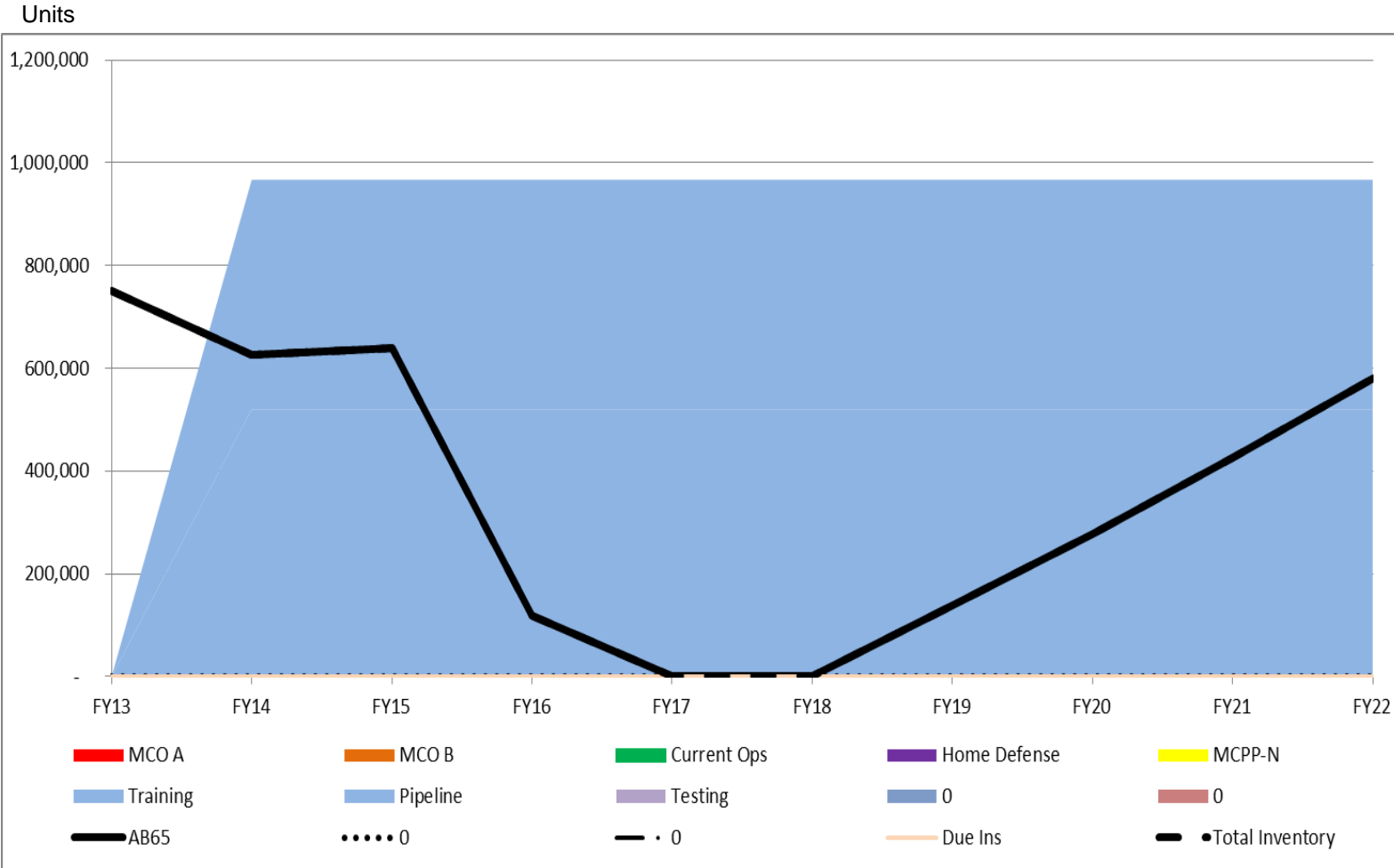
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AB65



**PROGRAM
MANAGER
AMMUNITION**



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

Interchangeable = NA

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

* 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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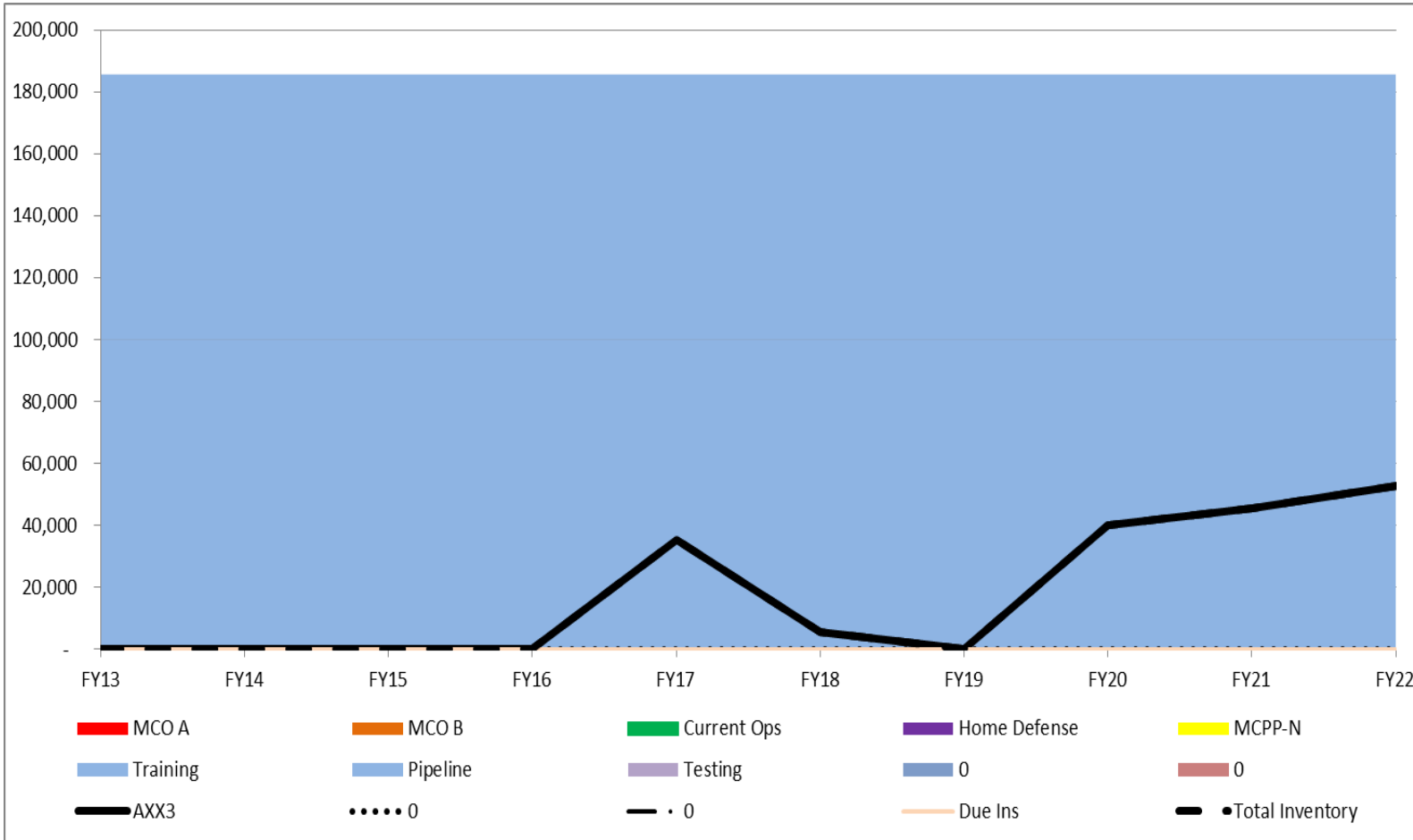
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AXX3



**PROGRAM
MANAGER
AMMUNITION**

Units



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

Interchangeable = NA

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

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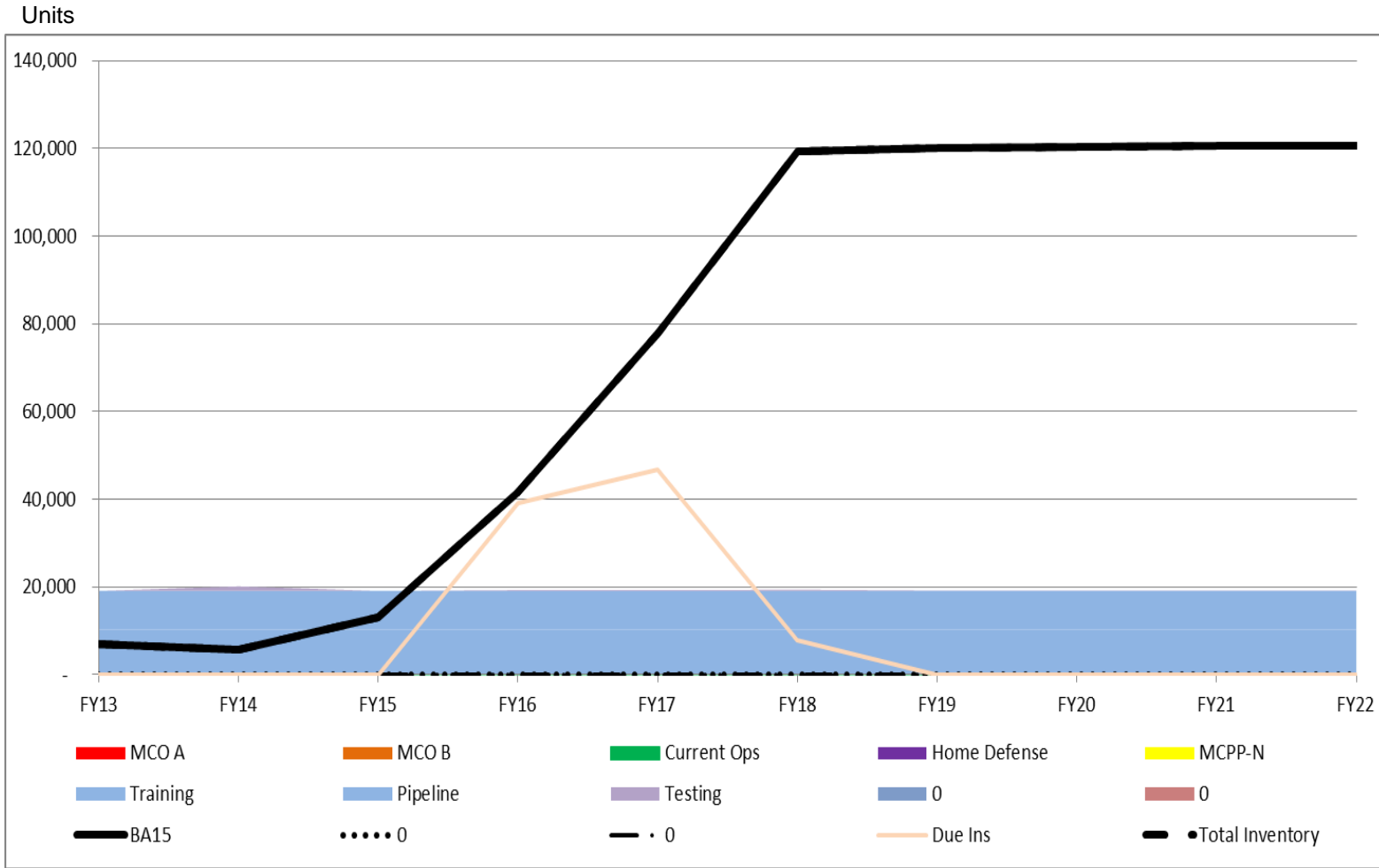
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BA15



**PROGRAM
MANAGER
AMMUNITION**



Item Data:
Cartridge,
60mm Target Practice

Interchangeable = NA

Production:
Lead Time = 30 mos.
Open Line = No
** Unit Price = \$185

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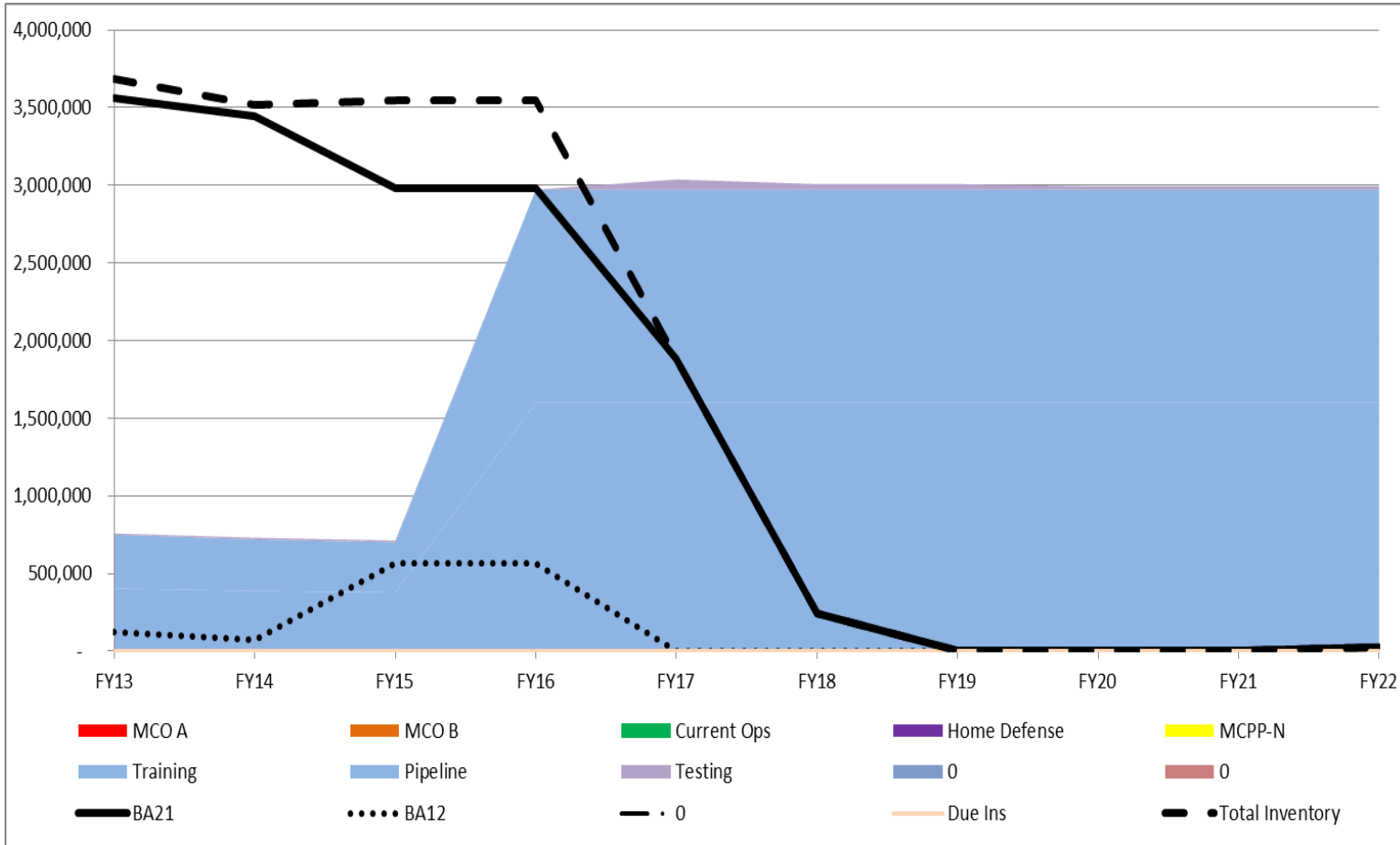
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BA21



PROGRAM MANAGER AMMUNITION

Units



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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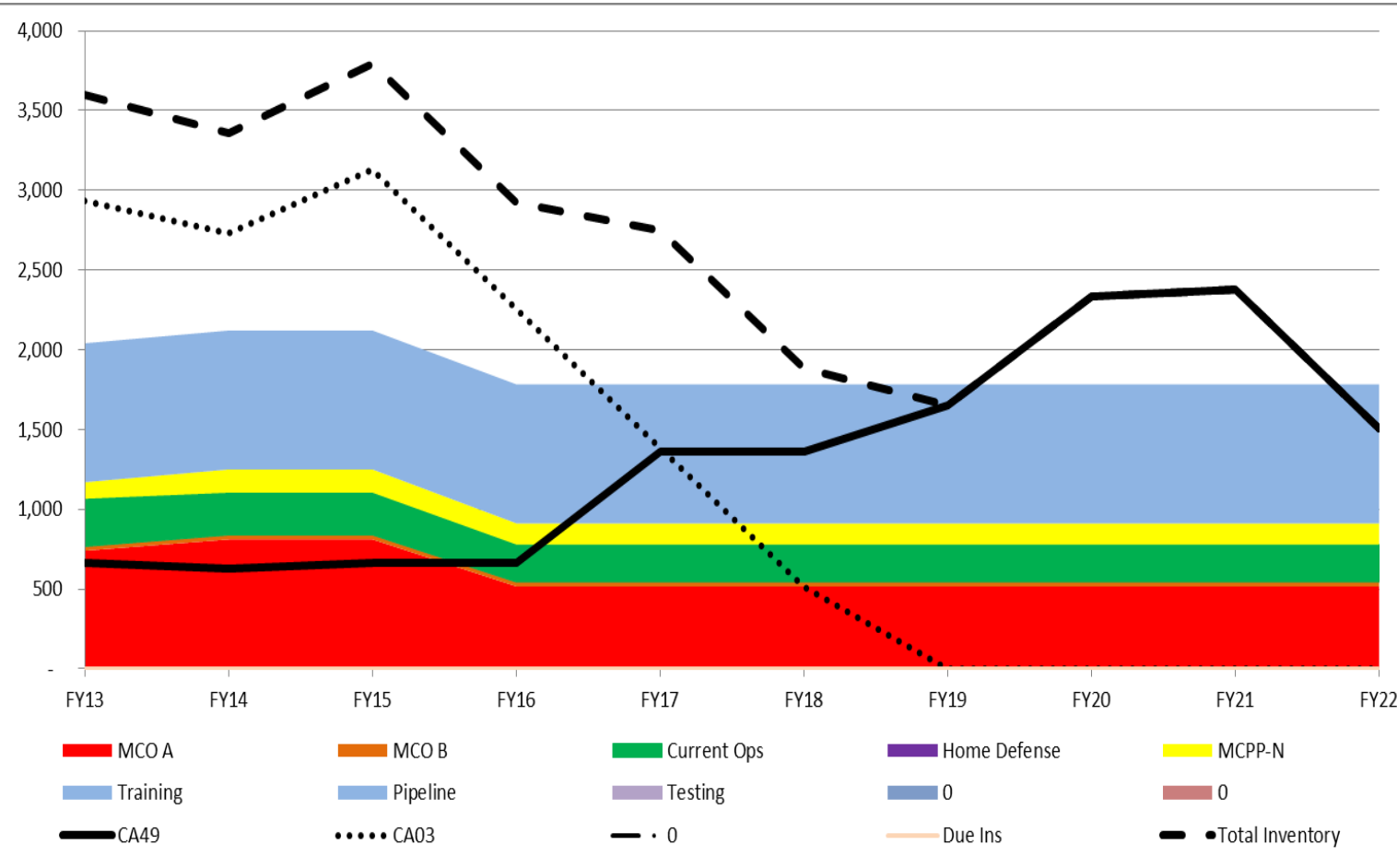
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CA49



PROGRAM MANAGER AMMUNITION

Units



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

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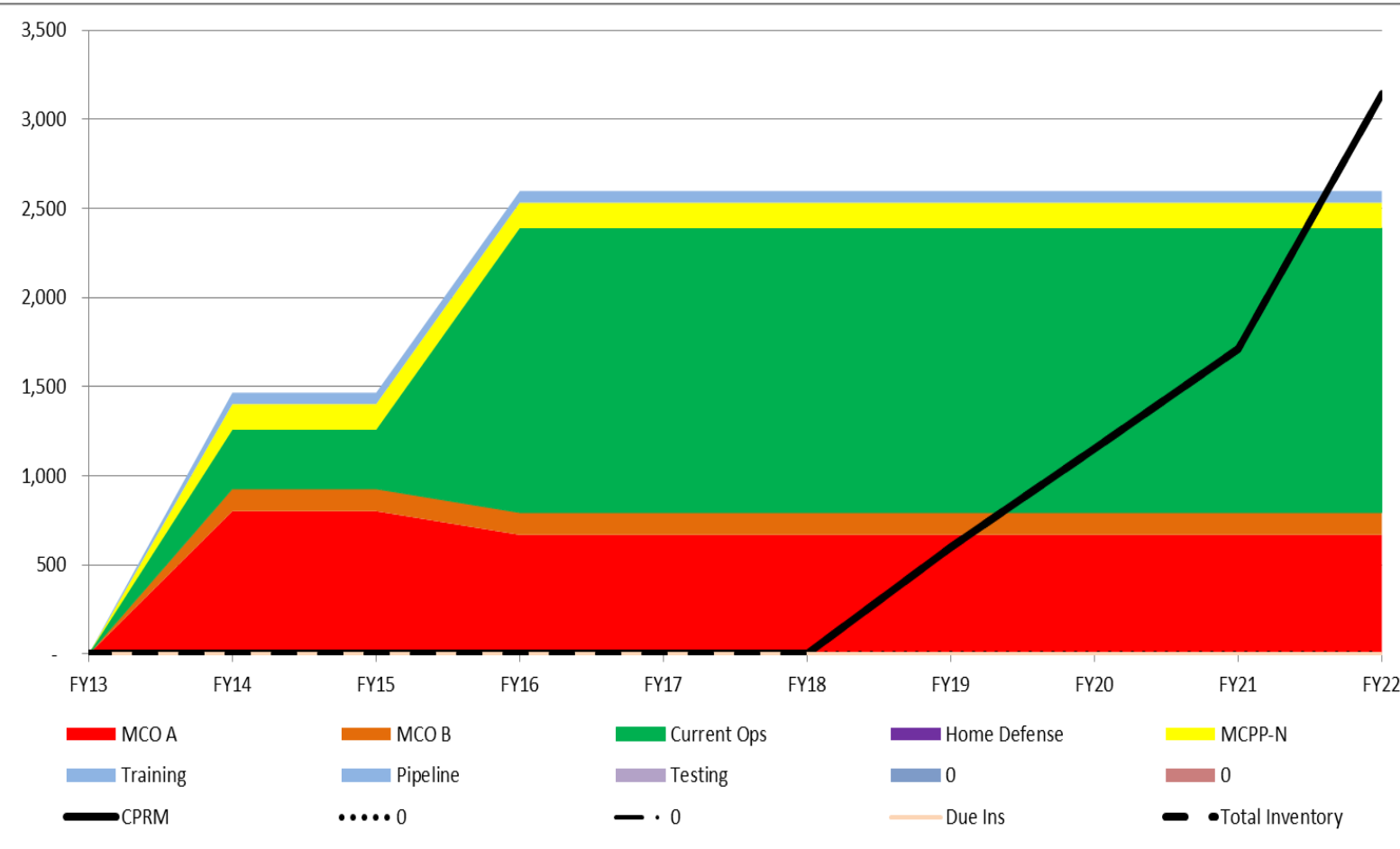
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CPRM



**PROGRAM
MANAGER
AMMUNITION**

Units



Item Data:
Projectile,
120mm Mortar
PERM

Interchangeable = NA

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

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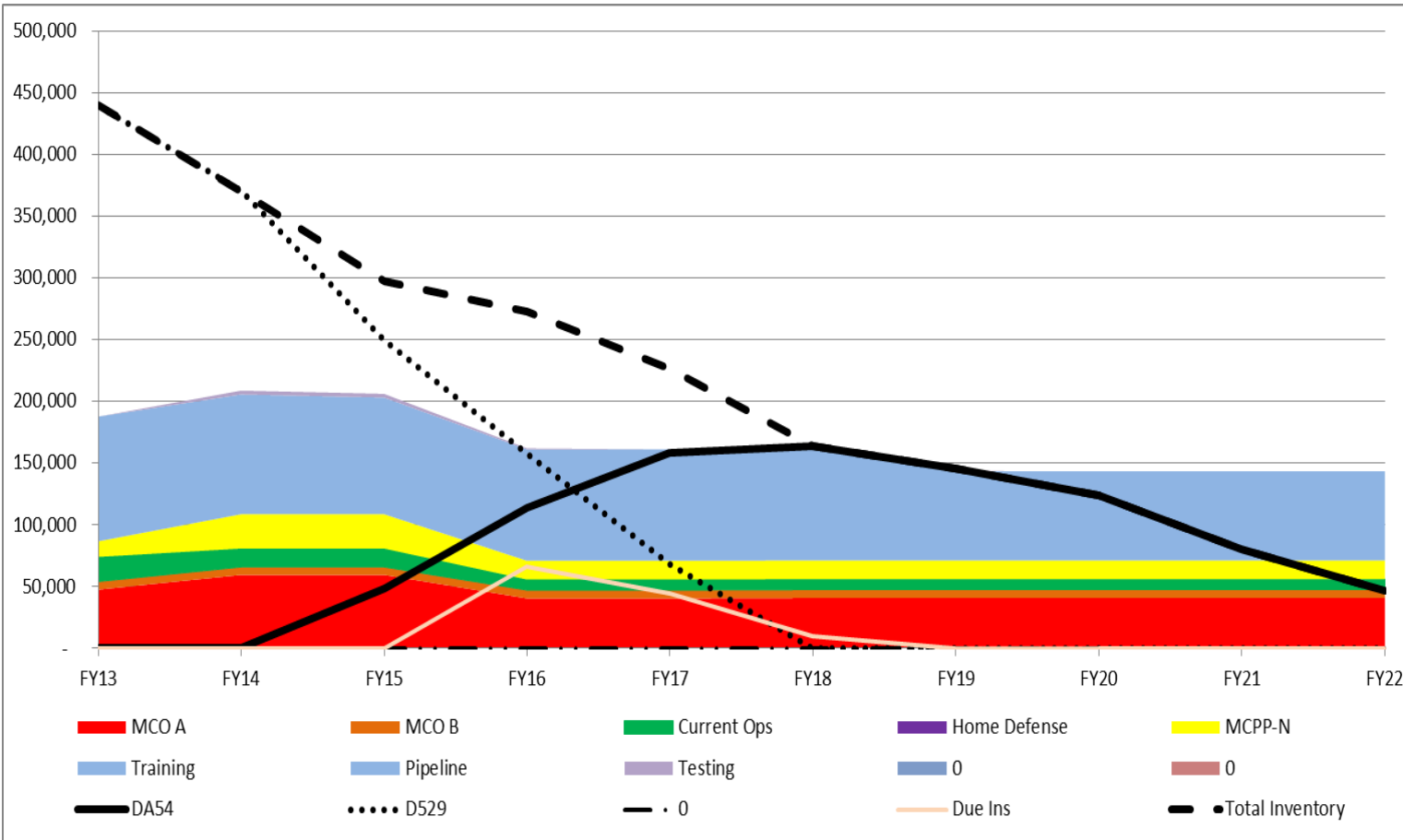
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DA54



PROGRAM MANAGER AMMUNITION

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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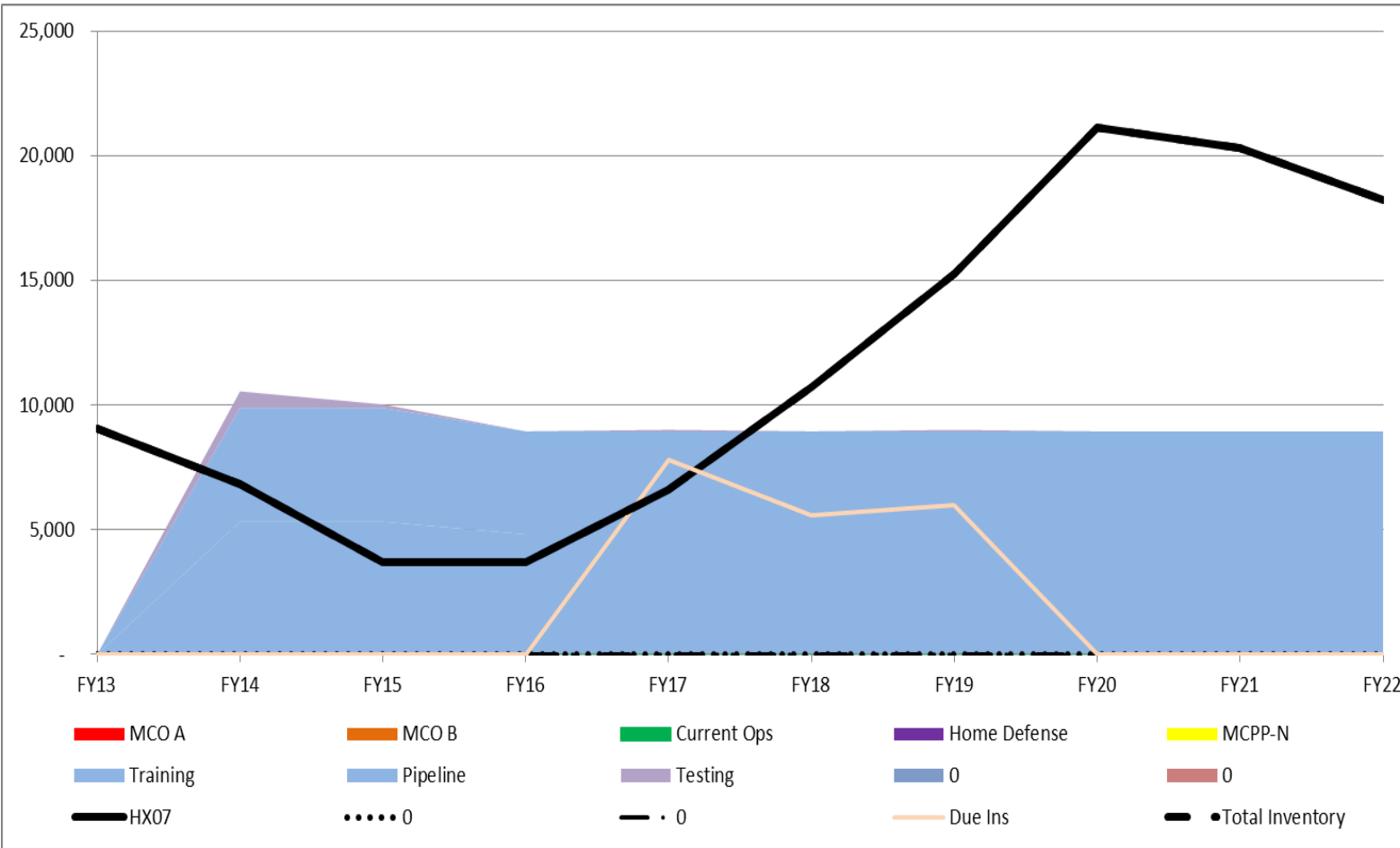
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HX07



**PROGRAM
MANAGER
AMMUNITION**

Units



Item Data:

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

Interchangeable = NA

Production:

Lead Time = 24 mos.

Open Line = Yes

** Unit Price = \$6,322

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** Unit Price is based on current FY15 Procurement/Replacement Cost Estimate unless specific Army pricing has been provided.



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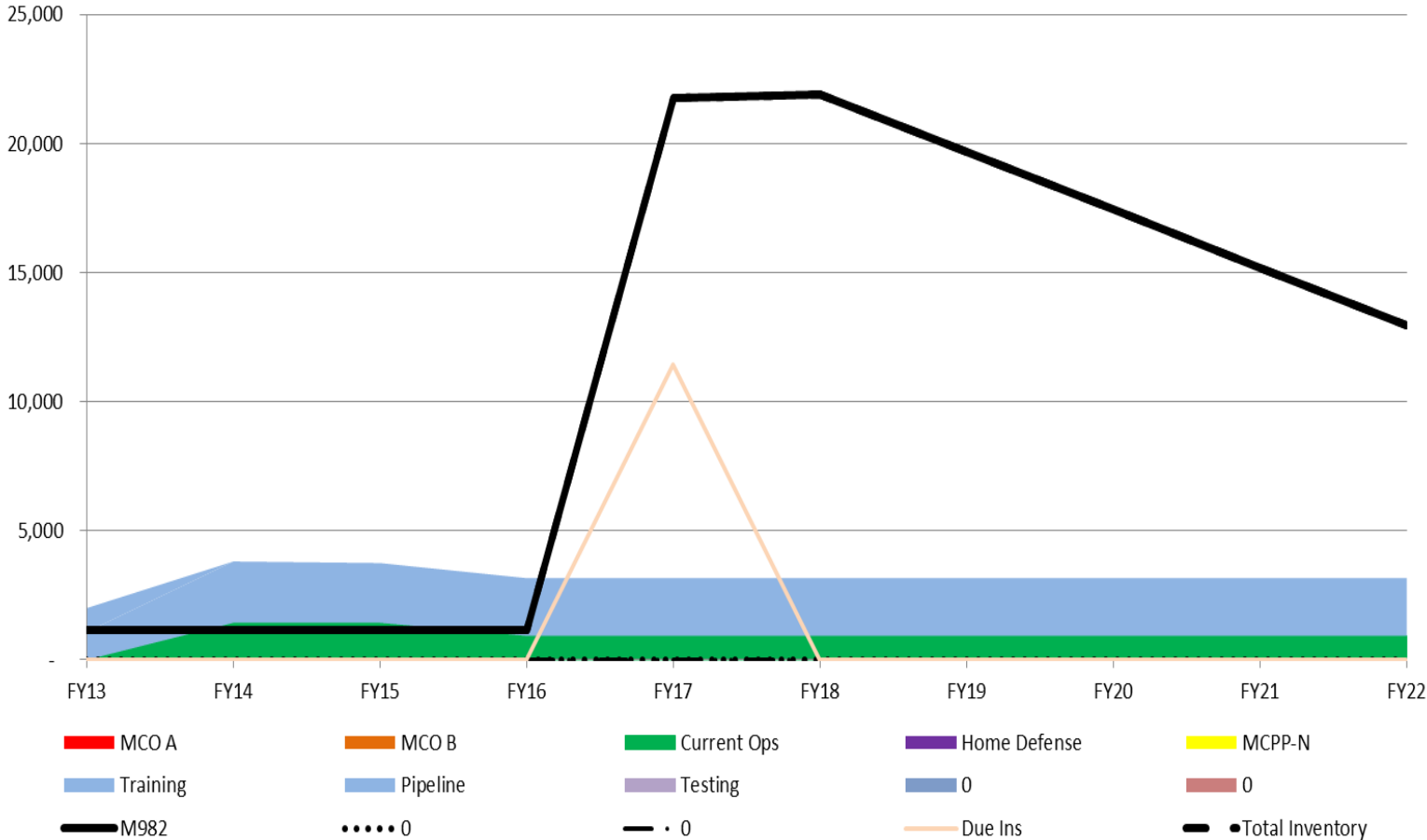
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M982



PROGRAM MANAGER AMMUNITION

Feet



Item Data:
Charge,
Demolition Sheet
0.166 Inch Thick

Interchangeable = NA

Production:
Lead Time = 20 mos.
Open Line = Yes
** Unit Price = \$110

Note:
M980 is being used to cover the short-term inventory shortfall

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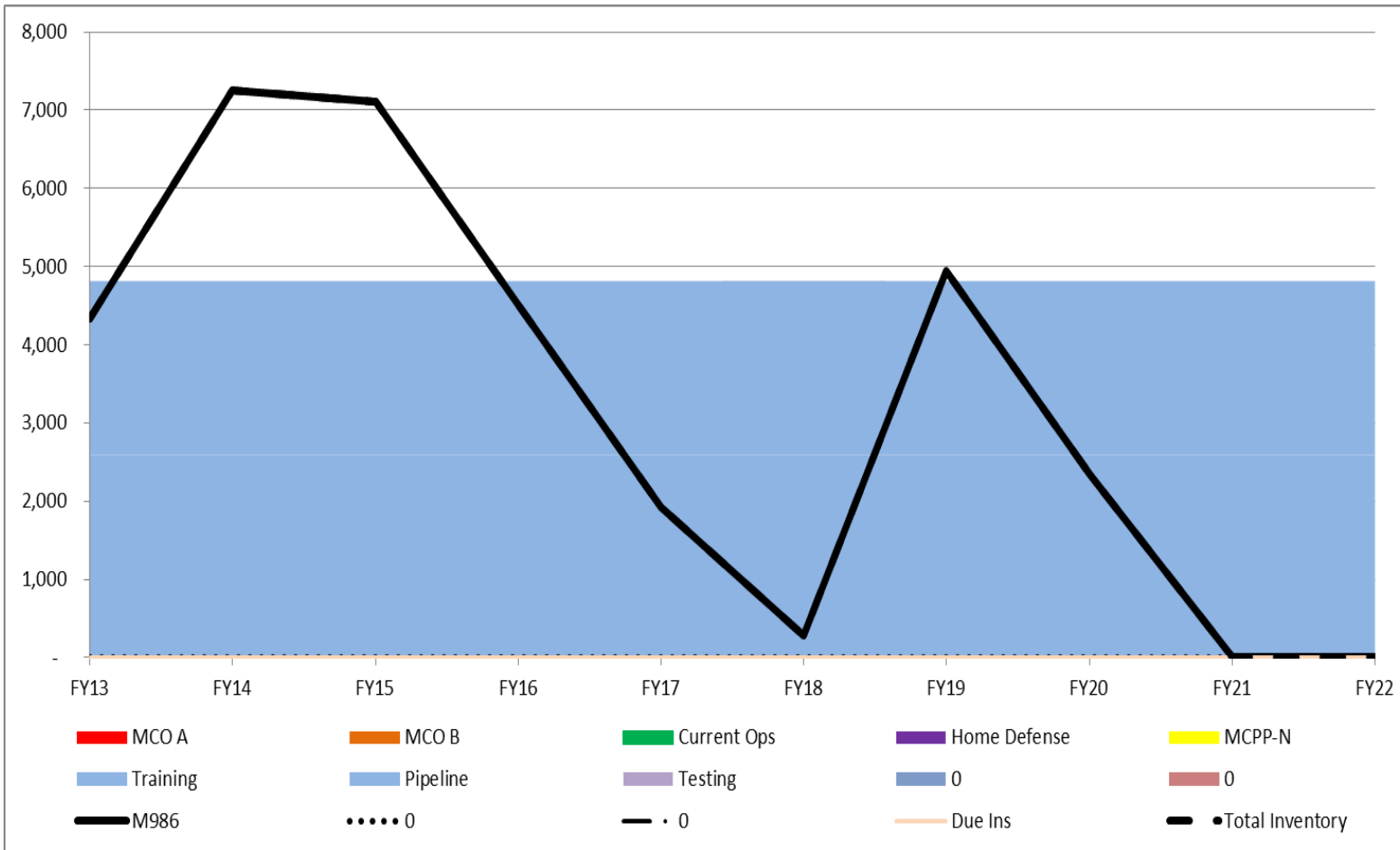
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M986



**PROGRAM
MANAGER
AMMUNITION**

Units



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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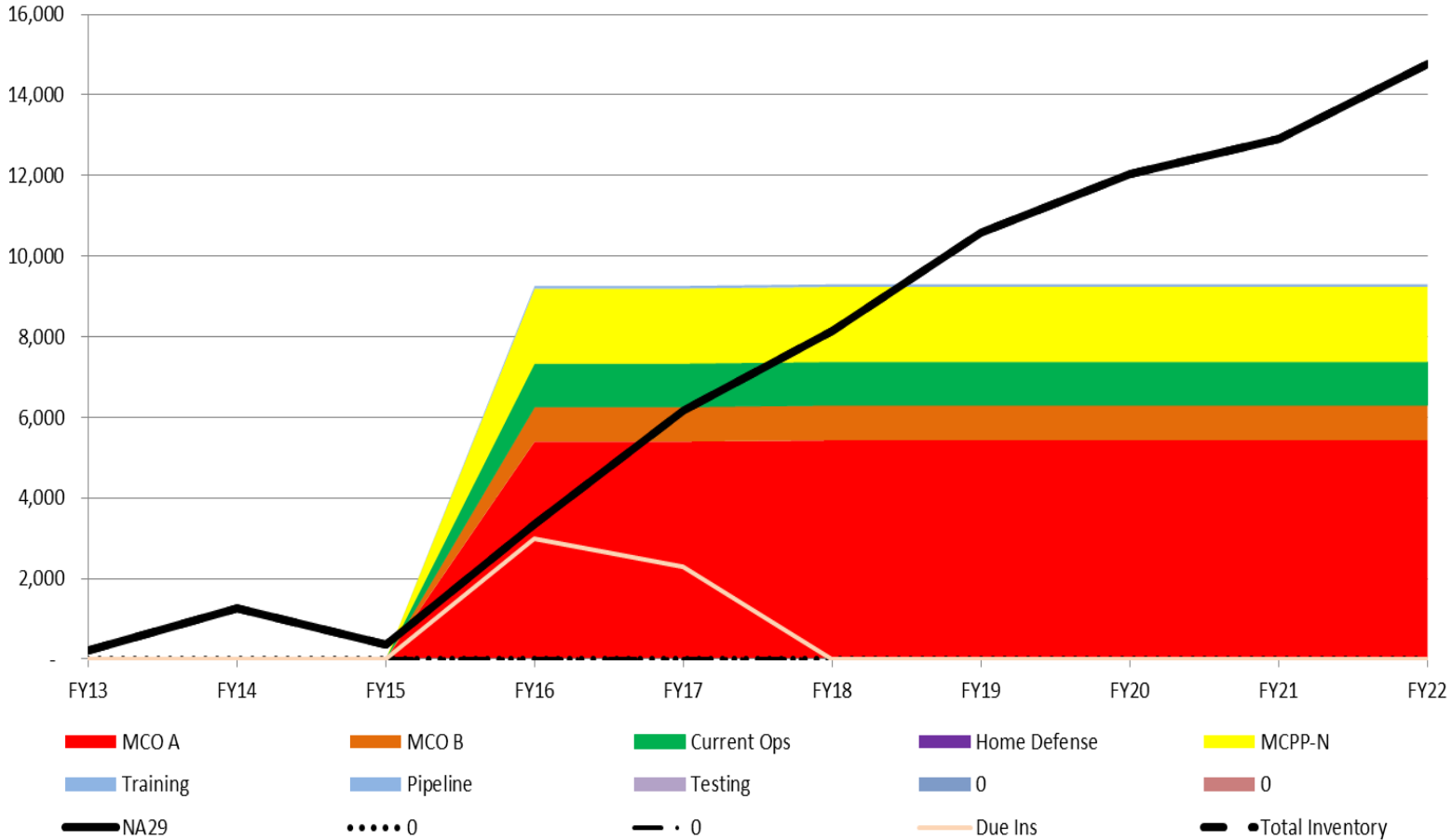
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NA29



PROGRAM MANAGER AMMUNITION

Units



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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