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JOINT PROGRAM EXECUTIVE OFFICE ARMAMENTS & AMMUNITION

Presented to:
**Munitions Executive Summit
– Acquisition Panel**

Presented by:
Dr. Theresa A. Smith
Deputy Joint Program Executive Officer
Armaments & Ammunition

20 March 2024



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Joint Program Executive Office Armaments & Ammunition



Project Manager
Combat Ammunition Systems



COL Leon Rogers



JPEO A&A
MG John Reim



DJPEO A&A
Dr. Theresa Smith, DML

Mission:
Develop, procure and field lethal armaments and ammunition providing Joint Warfighters and Allied Partners overmatch capabilities.



Project Manager
Close Combat Systems



Mr. Joseph Pelino (Acting)



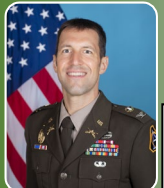
Chief of Staff
Mr. Ben Harris



Project Director
Tactical Artillery Systems



Mr. Gary Hallinan



Project Manager
Maneuver Ammunition Systems



COL Steven Power



APEO International
Mr. Thomas Coradeschi



Dir Talent Management
Ms. Kerry Henry



Senior Munitions Advisor
CW5 Adam Green



Project Director
Joint Ammunition & Weapons Systems



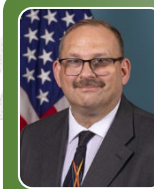
Mr. Frank Altamura



Project Director
Joint Services



LTC Joshua Headley



Director of Integration



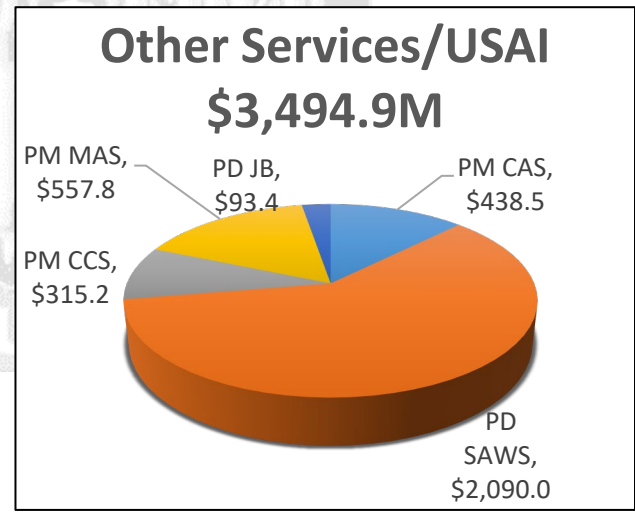
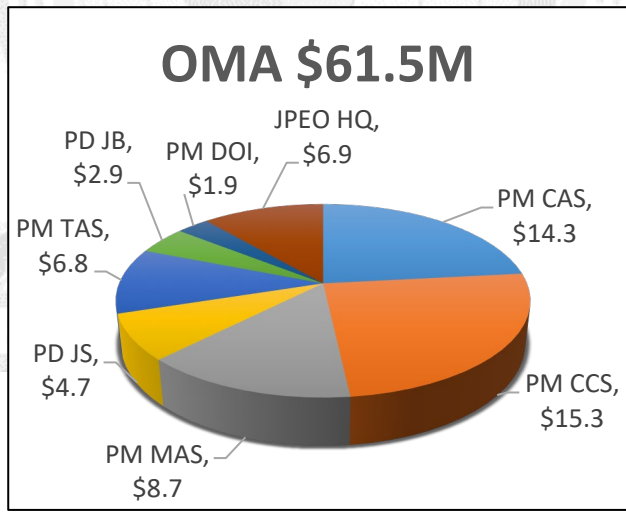
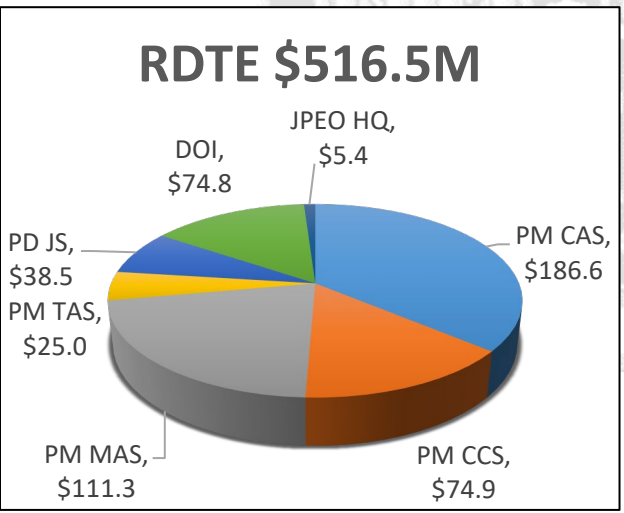
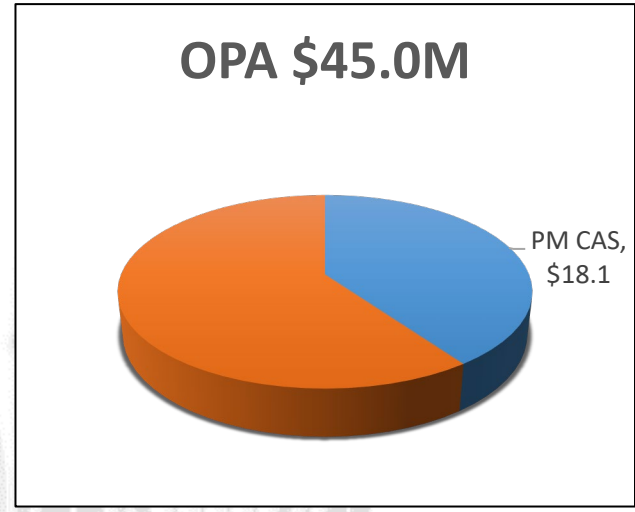
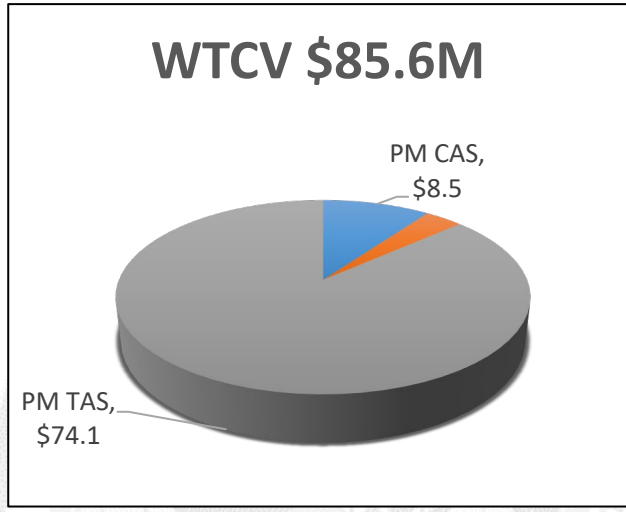
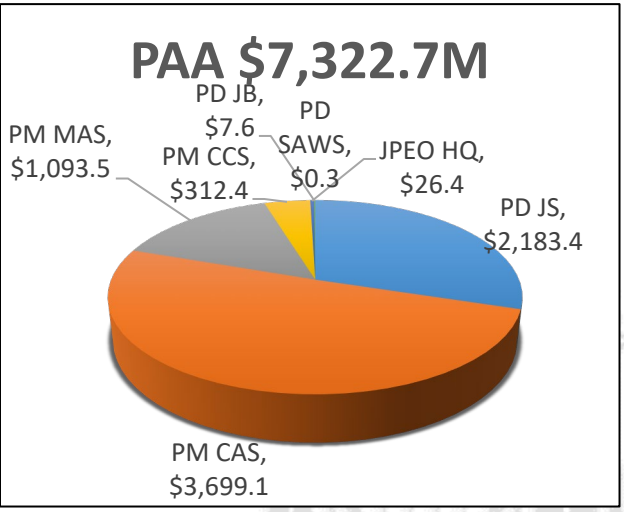
Mr. Eugene Conner

Single Manager for Conventional Ammunition



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JPEO Armaments & Ammunition FY23 Appropriation and UKR



Total FY 23 Budget ~\$11.5B

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JPEO Armaments & Ammunition FY23



TRANCHE FY23	Total Received \$	Total Obligated \$	Total Unobligated \$	%	OSD Goal EOM FEB 24	Funding Recv
Tranche 10B (FY23)	80,874,000	49,024,062	31,849,938	60.6%	80.8%	14-Feb-23
Tranche 10C (FY23)	30,227,000	30,116,308	110,692	99.6%	80.8%	14-Feb-23
Tranche 12B (FY23)	7,974,000	7,949,597	24,403	99.7%	66.7%	28-Apr-23
Tranche 12C (FY23)	296,778,753	60,538,523	236,240,231	20.4%	66.7%	28-Apr-23
Tranche 13C (FY23)	1,263,895,840	840,104,655	423,791,185	66.5%	46.7%	21-Jul-23
Tranche 14C (FY23)	624,249,819	39,836,724	584,413,095	6.4%	40.0%	07-Sep-23
Tranche 15A (FY23)	102,297,000	9,576,864	92,720,136	9.4%	33.3%	21-Sep-23
Tranche 16A (FY23)	81,162,000	81,162,000	-	100.0%	33.3%	20-Sep-23
Tranche 18 (FY23)	705,716,000	65,611,531	640,104,469	9.3%	26.7%	25-Oct-23
UKRE PAA	540,000,000	459,423,860	80,576,140	85.1%	84.2%	19-Oct-22
UKRE OPA (Volcano; HSTAMIDS)	3,890,000	3,890,000	-	100.0%	84.2%	24-Oct-22
UKRE RDTE (XM250 TSO; XM919 IAM; M330 Ob Grenade)	3,300,000	3,300,000	-	100.0%	94.2%	24-Oct-22
UKRU PAA	687,000,000	541,621,036	145,378,964	78.8%	84.2%	09-Feb-23
UKRU OPA (Volcano)	6,000,000	5,989,998	10,002	99.8%	84.2%	08-Mar-23
UKRU RDTE (XM250 TSO; XM919 IAM; M330 Ob Grenade)	5,800,000	5,799,910	90	100.0%	94.2%	27-Mar-23
JPEO AA	4,439,164,413	2,203,945,066	2,235,219,346	49.6%		
TRANCHE FY24	Total Received \$	Total Obligated \$	Total Unobligated \$	%	OSD Goal EOM FEB 24	Funding Recv
Tranche 20A	209,512,000	0	209,512,000	0.0%	0.0%	20-Feb-24
JPEO AA	209,512,000	-	209,512,000	0.0%		
JPEO AA TOTALS	4,648,676,413	2,203,945,066	2,444,731,346	47.4%		

Recent Awards: Prev Week

- Mortar Weapon System - \$0.05M T14C
- Demolition Munitions - \$0.02M T14C



Authorities in the James M. Inhofe NDAA FY2023-Temp Authorizations for Contracts Related to Ukraine

\$20B+ in security assistance to Ukraine since Feb 2022

1. Exception to full and open competition (if in public interest)
 - Eliminates requirement for written Justification & Approval
2. Waiver of limitations associated with Undefined Contract Actions (UCA)
 - Allows greater than 50% obligation w/out a qualified proposal
3. Exemption of Certified Cost & Pricing for certain contracts
 - Applies to Fixed Price Incentive Firm Target contracts
4. Allows sharing of Large Caliber Cannon Technical Data Packages

Authorities expire Sep 2024



JPEO Armaments and Ammunition



Congressional Support Enables JPEO AA to operate at the speed of war:

- **Additional funding above base budget to expand capacity for 155mm Artillery metal parts/LAP and to modernize industrial facilities**
- **Temporary authorizations for Covered Agreements Related to Ukraine**
 - Use of VOCO (Verbal Orders of Commanding Officer) Policy was leveraged for PM CAS program: M795 Metal Parts Second Source
 - Waiver of Limitations Associated with Undefined Contract Actions (UCAs);
 - Exemption from Certified Cost & Pricing Requirements

Army Ammunition Replenishment in support of Readiness:

Line of Effort #1: GOCO Expansion

- **Recent conflict in Ukraine resulted in Supplemental funding**
- **Army Ammunition Plant Modernization Plan (March 2022) enabled JPEO AA to quickly shift projects to the left**
- **Army Ammunition Plant Mod Plan Objectives:**
 - Increase manufacturing safety and readiness to meet current and future requirements
 - Isolate energetic mass from people
 - Ensure graceful degradation and resilient operations
 - Improve flexibility, maintainability, and sustainability
 - Reduce cost of operations and secure supply chains

**\$3.7B for
Replenishment
to Ukraine**

Line of Effort #2: Second Source Expansion

- **Focus on awarding contracts to second sources to strengthen the industrial base**
- **Working to replenish rounds of conventional munitions in support of Ukraine**
 - Small/Medium/Large Caliber ammunition
 - Mortars, Claymore Mines, Mine Clearing Charges

Line of Effort #3: Foreign Procurement to Mitigate Strategic Risk

- **Foreign produced munitions procured for shipment to Poland to support Ukraine efforts to include 155MM HE artillery ammo**
 - Additional Munitions include: 122mm rocket, 120mm mortars, 125mm tank ammo, 122mm/152mm HE artillery ammo



RDTE Appropriation (6.4, 6.5, 6.6)

\$ in M



■ RDTE

Sources: FY03-20 (Actual \$'s Received)
FY21 (Appropriated)
FY22 (PB22LOCK)

Acquisition, Supply Chain & Industrial Base Management Approach



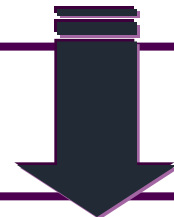
Single Manager for Conventional Ammunition (SMCA)

• Policy & Statute

- DODI 5160.68 SMCA
- AR700-90 Army Industrial Base Process
- DODD 4275.5 Acquisition and Management of Industrial Resources
- Public Law 105-261, Section 806 (Limit procurements to NTIB)
- Public Law 99- 661, Section 317 (McAlester/Crane)
- 10 USC 2535 (Defense Industrial Reserve Act)
- 10 USC § 4532 (Arsenal Act)
- 10 USC 4553 (Armament Retooling & Manufacturing Support)

• Strategy

- SMCA Industrial Base Strategic Plan
- AAP Modernization Plans
- Lay Away and Maintenance of Inactive Facilities--Surge
- GOCO AAP Competitions
- Risk Management/Disaster Recovery Planning
- Foreign Military Sales
- Demilitarization/Cross Leveling

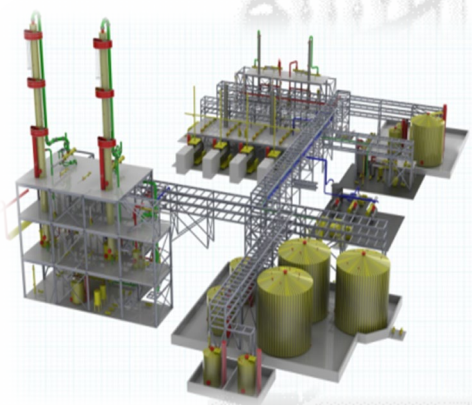
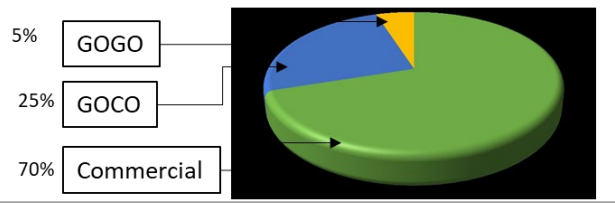


• Tools

- Industrial Committee of Ammunition Producers (ICAP)
- Supplier Risk System-DCMA/Dunn & Bradstreet
- Section 806 Watch List
- Capability and Capacity Utilization Studies
- Single Point Failure program (300+)
- Assured Munitions/Supply Chain Risk Mgmt
- IBAT (Supply Chain Maps)
- Advanced Planning Brief to Industry (APBI)

FY23: ~\$2.5B

Approx. Distribution of Annual Procurement Funding



• Future Industrial Base

- AAP- Army Ammunition Plant
- IBAT – Industrial Base Assessment Tool
- NTIB- National Technology & Industrial Base
- GOGO- Government Owned, Government Operated
- GOCO- Government Owned, Contractor Operated

• Outcome

- Assured Munitions
- Effective and Efficient Operations
- Quality Product
- On Time Delivery
- Increased Readiness



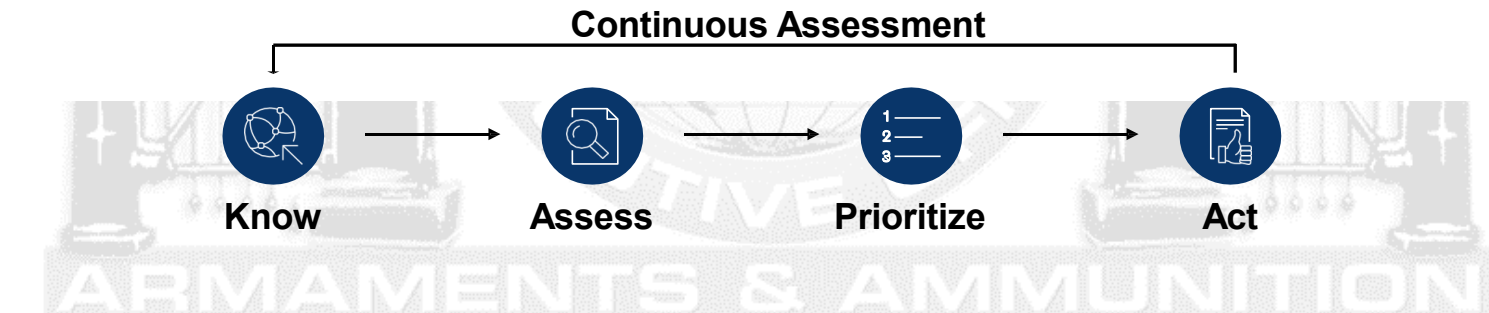
Proactive Management of Supply Chain



Assured Munitions Program

Strategic Sourcing Strategy

- **Secure our domestic munitions supply chains (commercial and Organic)** to ensure continued availability of end items and constituent components in peace and war.
- **Develop international partnerships and strategic international second sourcing** to ensure the supply chain can respond at any time, under any conditions.
- **Develop alternative chemistry paths** to required function/performance that do not rely on foreign sources.



JPEO-A&A Portfolio – Tracking of Component Risks			
Chemicals	Electronics	Metal Parts	Other (Plastics, etc.)
287 Chemicals	38 Component Categories	30 Minerals	14 Types



US- Based Chemical Production Opportunities

Funding Sources

- OSD Industrial Base Sustainment
- OSD Defense Production Act Title III (FY23 ~\$200M; \$2-\$20M per award)
- JPEO A&A RDT&E 6.6, Munitions Standardization, Safety & Effectiveness

1. Barium Nitrate
2. Lead Nitrate
3. Potassium Nitrate
4. Strontium Nitrate
5. Strontium Peroxide
6. Strontium Oxalate
7. Hydrazine
8. Boron Carbide
9. Potassium Sulfate
10. Potassium Chlorate
11. Potassium Perchlorate
12. Diphenylamine (DPA)
13. Methyl Centralite
14. Ethyl Centralite

15. 4-Nitroanisole (4-NA)
16. 2,4-Dinitroanisole (DNAN)
17. Magnesium
18. Amorphous Boron
19. Trichlorobenzene (TCB)
20. Triaminotrinitrobenzene (TATB)
21. Titanium Powder
22. Zirconium Powder
23. Salicylic Acid
24. Sebacic Acid
25. Viton B
26. Lead Azide
27. Smoke Dyes:
 - a. Sublimized Quinizarin
 - b. Tech Quinizarin
 - c. Nitroanthraquinone (NAQ)
 - d. Quinaldine

300+
Single Point Failures



Message to Industry

- Thank you for your exceptional responsiveness producing & delivering quality ammunition— ammo at the Speed of War
- Robust ammunition budget exists, with high Congressional and Pentagon support
- Propellant and Energetic resiliency opportunities
- Encourage reducing reliance on foreign sources
- Army Science Board, Rand Corp assessing Ukraine Lessons Learned & ability to surge production
 - Offer your thoughts, non-attributional
- Advanced Planning Briefing to Industry (APBI)
 - <https://sam.gov/opp/0e5833a36983420fbafbff479364652f/view>