

SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA)

ADVANCED PLANNING BRIEFING TO INDUSTRY GUIDEBOOK



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JPEO Armaments & Ammunition

TABLE OF CONTENTS

- Page 2 Joint Program Executive Office Armaments & Ammunition (JPEO A&A)
- Page 3 Project Manager Combat Ammunition Systems (PM CAS)
- Page 4 Project Manager Close Combat Systems (PM CCS)
- Page 5 Project Manager Maneuver Ammunition Systems (PM MAS)
- Page 6 Program Manager Towed Artillery Systems (PM TAS)
- Page 7 Project Director Joint Services (PD JS)
- Page 8 Project Director Joint Bombs (PD JB)
- Page 9 Websites and Helpful Hints for DoD Contractors
- Page 10 Acronym Sheet
- Page 11 - 28 . . Appendix A ~ JPEO A&A Business Opportunities FY21 – FY22
- Page 29 - 31. . Appendix B ~ CCDC Armaments Center Science and Technology Focus Areas




JOINT PROGRAM EXECUTIVE OFFICE ARMAMENTS & AMMUNITION

SFAE-AA, Building 1
 Picatinny Arsenal, NJ 07806-5000
 (973) 724-7101 (<https://jpeoaa.army.mil/>)

The Joint Program Executive Office Armaments & Ammunition's (JPEO A&A) mission is to develop, procure and field lethal armaments and ammunition, providing Joint Warfighters and Allied Partners overmatch capabilities. JPEO A&A's vision of "Innovative and empowered Teams rapidly fielding dominating capabilities" ensures that the Munitions Enterprise meets its responsibilities now and in the future. JPEO A&A is designated as the Single Manager for Conventional Ammunition (SMCA) Executor. The SMCA objective is to achieve the highest possible degree of effectiveness and efficiency in the DoD operations required to acquire conventional ammunition and integrate logistic functions for U.S. Forces.


JPEO A&A has seven subordinate offices that accomplish the life cycle management of 600+ Army programs, providing battlespace dominance for the Warfighter with superior munitions while leveraging Government and industry partnerships.



Project Manager
Combat Ammunition Systems
Indirect Fire Munitions and Mortar Weapon Systems

- Long Range Precision Fires
- Cannon Delivered Area Effects Munitions

COL Anthony Gibbs



Project Manager
Close Combat Systems
Terrain Shaping Obstacles, Close Combat Munitions, Protection and Support Systems

- Interim Top Attack Munition
- Individual Shoulder Launched Munition
- Countermeasure Flares/Decoys

COL Russell Hoff



Project Manager
Maneuver Ammunition Systems
Direct Fire Munitions

- Small, Medium and Large Caliber
- Special Ammo & Weapon Systems

COL Paul Alessio



Project Director
Joint Services

- Ammunition Industrial Base
- SMCA Integration
- Demilitarization
- Ammunition Logistics R&D
- Technology and Prototyping

Mr. Matthew Zimmerman



JPEO A&A
 BG Bill M. Boruff



DJPEO A&A
 Mr. Chris Grassano SES



APEO International
 Mr. Thomas Coradeschi

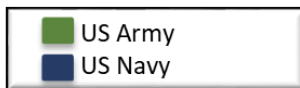



CW5
 Robert E. Smith, Jr.



Dir Talent Management
 Mr. Keith Gooding


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

Chief of Staff

- Human Resources
- Security / Foreign Disclosure
- Acquisition Processes
- Audit Readiness
- Business Management
- Information Technology


Mr. John Curran



Acting Program Manager
Towed Artillery Systems
Joint Artillery & Survey

- M777A2 Lightweight 155mm Howitzer
- M119A3 105mm Howitzer
- Target Acquisition
- Mobile Howitzer

Mr. Chris Hatch



Project Director
Joint Bombs

- Air Force and Navy Bombs
- Navy Deck Gun Ammo
- Energetics / Cartridge Actuated Device / Propellant Actuated Device

CAPT Brian Schorn USN



Director for Integration

- Science and Technology
- Systems Integration
- Architectures and Standards

Mr. Eugene Conner



PROJECT MANAGER COMBAT AMMUNITION SYSTEMS

Project Manager Combat Ammunition Systems (PM CAS) develops, produces, and equips the Joint Warfighters and Allied Partners with conventional artillery and mortar ammunition, precision ammunition, mortar weapons, and mortar fire control systems. PM CAS is a member of the Long Range Precision Fires Cross Functional Team, responsible for developing and delivering advanced munitions for Army Modernization. Under the Single Manager for Conventional Ammunition (SMCA) responsibilities, PM CAS also procures ammunition for US Marine Corps, US Air Force, US Special Operations Command, and our allies. The PM is the life cycle program manager of artillery and mortar products in the following categories:

- Precision Guided Munitions (including Excalibur, Precision Guidance Kit, Long Range Precision Guidance Kit, and Cannon Delivered Area Effects Munitions)
- Conventional Munitions for Mortars and Artillery (including High Explosive, Obscuration, Illumination, and Training)
- Artillery Propellants and Primers
- Fuzes and Fuze Setters
- 60mm, 81mm, 120mm Mortar Weapon Systems
- Mortar Fire Control Systems

Points of Contact:

Project Manager, Combat Ammunition Systems, (973) 724-2003

Product Manager, Precision Fires & Mortars, (973) 724-4209

Product Manager, Precision Attack Cannon Munitions, (973) 724-1839

Conventional Ammunition Division, (973) 724-7617

Business Management Division, (973) 724-7106

International, (973) 724-2965



PROJECT MANAGER CLOSE COMBAT SYSTEMS

Project Manager Close Combat Systems (PM CCS) provides dominant and innovative lethal and protective capabilities for the Joint Warfighter through acquisition excellence. Team CCS' contributions are on the forefront of Multi-Domain Operations, span multiple Services, and support the spectrum of lethal, intermediate force, robotics, counter-measures, and counter explosives of Multi-Domain Operation capabilities across the Army Modernization priorities of Long Range Precision Fires, Next Generation Combat Vehicles, Future Vertical Lift and Soldier Lethality. Mission areas include:

- Networked Munitions that provide Area Denial and Terrain Shaping Capabilities
- Aerial Counter-measures and Pyrotechnics
- Shoulder-Launched Munitions
- Hand and Vehicle Deployed Grenades
- Demolitions and Obstacle Breaching Capabilities
- Counter Explosive Hazard Detection and Neutralization Capabilities
- Intermediate Force & Protection Systems

Points of Contact:

Project Manager, Close Combat Systems, (973) 724-7041

Product Manager, Terrain Shaping Obstacles, (973) 724-9115

Product Director, Combat Armaments and Protection Systems, (973) 724-6246

Product Director, Demolition & Countermeasures, (973) 724-6166



PROJECT MANAGER MANEUVER AMMUNITION SYSTEMS

Project Manager Maneuver Ammunition Systems (PM MAS) develops, equips and sustains integrated lethal direct fire ammunition effects to enable Joint and Allied Warfighters' overmatch in the battlefield.

PM MAS accomplishes these missions through strategic lifecycle program management of ammunition for weapon systems in the following categories:

- Small Caliber Ammunition
- Medium Caliber Ammunition
- Large Caliber Ammunition
- Special Ammunition and Weapon Systems (SAWS)

Points of Contact:

Project Manager, Maneuver Ammunition Systems, (973) 724-5307

Product Manager, Small Caliber Ammunition, (973) 724-1521

Product Director, Medium Caliber Ammunition, (973) 724-1261

Product Manager, Large Caliber Ammunition, (973) 724-4935

Product Director, Special Ammunition and Weapon Systems, (973) 724-2783



PROGRAM MANAGER TOWED ARTILLERY SYSTEMS

The Program Manager for Towed Artillery Systems (PM TAS) is a joint Army/Marine Corps Systems Command (MARSYSCOM) program office. PM TAS provides direct, reinforcing, and general support towed artillery fires to maneuver forces, including Stryker and Infantry Brigade Combat Teams, field artillery brigades, Army light forces and all Marine Corps units. They also manage survey systems for the Army and USMC and all legacy towed howitzers in the Army's inventory. PM TAS provides direct support to the Combined Security Transition Command-Afghanistan for the overhaul and outfitting of D-30 howitzers, along with maintenance support for the Afghan National Army. Foreign Military Sales (FMS) are vital to the portfolio, supporting multiple allies. PM TAS executes its mission as the Program Manager and total life cycle system manager of artillery systems in the following categories:

- Towed Howitzers: M777A2, M119A2/A3
- Howitzer Digitization: M777 and M119 Digital Fire Control Systems (DFCS)
- Gun Laying/Surveying: M111A1 Improved Position and Azimuth Determining Systems - GPS (IPADS-G), M67 Ground Laying and Positioning Systems (GLPS), Location Azimuth and Determining System (LADS)
- Non-Standard Howitzers: D-30
- Mobile Howitzer
- Long Range Cannon (M777 Extended Range)

Points of Contact:

Program Manager, Towed Artillery Systems, (973) 724-2841

Deputy Program Manager, Towed Artillery Systems, (973) 724-6745

Project Lead, M777A2 Towed Howitzer, (973) 724-9455

Project Lead, M119A3 Towed Howitzer, (973) 724-6892

Project Lead, Survey, (973) 724-3833

Project Lead, D-30 Howitzer, (973) 724-4787

Project Lead, Mobile Howitzer (973) 724-5560

Project Lead, Long Range Cannon (973) 724-2415



PROJECT DIRECTOR JOINT SERVICES

Project Director Joint Services (PD JS) enables the Acquisition, Manufacturing and Demilitarization of Munitions for the Joint Services. Responsibilities within these categories include:

- Coordinating and integrating the Single Manager for Conventional Ammunition (SMCA) functions, processes and operations
- Performing Demilitarization of all conventional ammunition and missiles for the DoD
- Performing Industrial Base and Supply Chain management:
 - GOCO Army Ammunition Plant Modernization and Sustainment Strategies
 - Production Base Support Program: Provision of Industrial Facilities, Maintenance of Inactive Facilities, Layaway of Industrial Facilities and Armament Retooling and Manufacturing Support (ARMS) Program
 - Executing Public Law 105 - 261, Section 806, Procurement of Conventional Ammunition
- Industrial Base Policy and Strategic Planning
- Managing munitions, manufacturing, technology and prototyping programs
- Joint Ordnance Commanders Group (JOCG) Executive Committee (EXCOM)
- Co-Chair of the Munitions working group for the North American Technology Industrial Base Organization (NATIBO)
- Government liaison to the National Defense Industrial Association (NDIA) Munitions Executive Summit and the Industrial Committee for Ammunition Producers (ICAP)

Section 806 Watch List:

<https://beta.sam.gov/opp/15dadd13fc764a7a6283cf6424038166/view>

Solicitation number W15QKN-15-Z-2460

SMCA Industrial Base Strategic Plan (IBSP):

https://beta.sam.gov/opp/c4a918d1ccc3f0655d3969c55bf73bc1/view?keywords=W15QKN-16-XX-2016%20&sort=-relevance&index=&is_active=true&page=1

Solicitation number W15QKN-16-XX-2016

Points of Contact:

Project Director, Joint Services, (973) 724-7626



PROJECT DIRECTOR JOINT BOMBS

Established in October 2009, Project Director Joint Bombs (PD JB) executes Single Manager for Conventional Ammunition (SMCA) acquisition responsibility for product configurations managed by and/or primarily procured for other Military Services, including Air Force and Navy General Purpose, Penetrator, and Cast-Ductile Iron bombs and associated components, energetics, and 5" Navy Gun Ammunition product lines. PD JB also manages Army-funded procurement of Cartridge Actuated Devices and Propellant Actuated Devices.

The PD JB portfolio includes the following:

- Air Force and Navy General Purpose Bombs [Insensitive Munition (IM), Tritonal and inert loaded]
 - 250 lbs
 - 500 lbs
 - 1,000 lbs
 - 2,000 lbs
- 2,000 lbs Penetrator Bombs (IM, Tritonal and inert loaded)
- 500 lbs Cast-Ductile Iron Bombs
- 25 lbs Small Practice Bombs
- Bomb Fins
- Bomb Ancillary Items
 - Lugs
 - Pallets
 - Cables
 - Nose Plugs
 - Spotting Charges
- 5"/54 Navy Gun Tactical and Training Ammunition Programs
- Energetics
 - Holston Army Ammunition Plant Explosives Supply Contract
 - Explosives Prioritization for Service Explosive Requirements Resolution
- Cartridge Actuated and Propellant Actuated Devices

Points of Contact:

Project Director, Joint Bombs, (973) 724-6487

Deputy Project Director, Joint Bombs, (973) 724-8518

WEBSITES

Defense Acquisition Portal:

<https://www.dau.edu/>

U.S. Army Materiel Command:

www.army.mil/AMC

Army Futures Command:

<https://armyfuturescommand.com/>

Defense Pricing and Contracting:

<https://www.acq.osd.mil/dpap/index.html>

Office of the Assistant Secretary of the Army for Acquisition, Logistics and Technology:

<https://www.army.mil/asaalt>

Contract Opportunities (formerly Federal Business Opportunities):

<https://sam.gov/>

Joint Program Executive Office Armaments & Ammunition:

<https://jpeoaa.army.mil/>

Combat Capabilities Development Command Armaments Center:

<https://ac.ccdc.army.mil/>

HELPFUL HINTS for DoD CONTRACTORS

- Monitor the website for Contract Opportunities (formerly, Federal Business Opportunities) for new business
- Review Market Surveys and respond to them
- Review Draft Requests for Proposals and provide comment(s)
- Participate in Industry Day(s)
- Attend Government sponsored conferences and training
- To increase possible competition, the quality of ammunition, and enable contractors to better prepare for potential future solicitations, JPEO Armaments & Ammunition has established a process regarding the release of Army Technical Data Packages (TDPs) to industry. See:
https://jpeoaa.army.mil/jpeoaa/Products/Tdp/JPEO_AA_TDP_Policy_2019_Website_6JUN_2019.pdf

ACRONYM SHEET

AF	-	Award Fee
C	-	Competitive
CPAF	-	Cost-Plus-Award-Fee
CPFF	-	Cost-Plus-Fixed-Fee
CPIF	-	Cost-Plus-Incentive-Fee
DOTC	-	Department of Defense Ordnance Technology Consortium
FFP	-	Firm-Fixed-Price
FMS	-	Foreign Military Sales
GOCO	-	Government Owned Contractor Operated
GOGO	-	Government Owned Government Operated
IDIQ	-	Indefinite Delivery/Indefinite Quantity
LC	-	Limited Competition
MOD	-	Modification
NTIB	-	National Technology & Industrial Base
OTA	-	Other Transaction Authority
POC	-	Point of Contact
REQ	-	Requirements
SBSA	-	Small Business Set Aside
SS	-	Sole Source
SSN	-	Standard Study Number
TBD	-	To Be Determined
WOSB	-	Women-Owned Small Business

Appendix A

**JPEO Armaments & Ammunition
Business Opportunities for FY21
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY21						
	Planned FY21 Dollars (\$M) (FY21 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 							
81MM MORTAR HIGH EXPLOSIVE (HE) M889A4/M821A4	\$ 23.00 E18404	US & Canada	Order	FFP	4Q/FY21	No	No
155MM HE M795 W/ TRINITROTOLUENE (TNT)	\$ 80.00 E66800	SS	Option	FFP	1Q/FY21	No	No
105MM HE PROJECTILE GUN UNIT (PGU)-45B METAL PARTS	\$ 3.15 SOCOM	US & Canada	Order	FFP	3Q/FY21	No	No
M64 MULTI-PERFORATED/SINGLE-PERFORATED (MP/SP) PROPELLANT	\$ 6.12 E21501	SS	Order	IDIQ-FFP	2Q/FY21	No	No
155MM PROJECTILE ALTERNATE ALLOY	\$ 8.50 654802/EU6	SS	Order	OTA-CPFF	2Q/FY21	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY22						
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N

• Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc.
 • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option
 • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); **and** Firm Fixed Price (FFP); Cost Plus Fixed Fee (CPFF); etc.
 • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable
 • NOTE: DOTC = Department of Defense Ordnance Technology Consortium

105MM HIGH EXPLOSIVE (HE) PROJECTILE GUN UNIT (PGU)-44/B/43/B	\$ 16.40	SOCOM	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
120MM FULL RANGE PRACTICE M931	\$ 5.92	E25507	US & Canada	Option	FFP	2Q/FY22	No	No
120MM HE M933A1/M934A1	\$ 8.14	E25502	US & Canada	Option	FFP	2Q/FY22	No	No
155MM EXTENDED (EXT) RANGE INSENSITIVE MUNITIONS (IM) HE-BB, M1128	\$ 4.04	E67802	US & Canada	New	FFP	1Q/FY22	No	No
155MM HE M795 W/TNT	\$ 36.50	E66800	SS	Option	FFP	1Q/FY22	No	No
155MM METAL BODY PARTS	\$ 47.68	E66800	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
60MM FULL RANGE PRACTICE CARTRIDGES (FRPC) M769	\$ 1.16	E92200	US & Canada	Order	IDIQ-FFP	4Q/FY21	No	No
60MM HE M768A1	\$ 1.59	E92900	US & Canada	Order	IDIQ-FFP	4Q/FY21	No	No
81MM FRPC M879A1 W/VENTED TUBE	\$ 3.63	E69600	US & Canada	Order	IDIQ-FFP	4Q/FY21	No	No
81MM MORTAR HE M889A4/M821A4	\$ 18.60	E18403/ E18404	US & Canada	Order	IDIQ-FFP	4Q/FY21	No	No
ARTILLERY FUZE MULTI OPTION M782	\$ 11.11	E99909	US & Canada	New	IDIQ-FFP	3Q/FY21	No	No
ARTILLERY FUZE POINT DETONATING (PD) FUZE MUNITION UNIT (FMU)-153 A/B	\$ 6.16	SOCOM	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
ARTILLERY FUZE PD M739A1	\$ 23.68	E62208	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
BODY TUBE, 81MM ILLUMINATED (ILLUM)	\$ 0.42	E76100	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
BOX, PACKING AMMO	\$ 3.30	E21501	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
BURSTER TUBE ASSEMBLY, 155MM SMOKE	\$ 2.20	E89500	C	Order	OTA-FFP	4Q/FY21	No	No
CANISTER MPTS ASSY, 155MM ILLUM	\$ 0.61	E26900	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
COMBUSTIBLE CASES - M231	\$ 2.40	E27502	SS	Order	IDIQ-FFP	2Q/FY22	No	No
COMP B TYPE I GRADE A	\$ 6.50	E91400/ E25502	SS	Order	IDIQ-FFP	2Q/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
CONTAINER M231, PA161	\$ 0.82	E27502	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
CONTAINER M232, PA103A2	\$ 4.70	ER8021	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
EXPLOSIVE FILL INSENSITIVE MUNITIONS EXPLOSIVES (IMX)-104	\$ 14.50	E92900/ E18403/ E18404/ E67802	SS	Order	IDIQ-FFP	2Q/FY22	No	No
FIBER CONTAINERS FOR MORTARS PA 162, PA 167	\$ 0.38	E76100/ E25503/ E91300	C	Order	IDIQ-FFP	2Q/FY22	No	No
FIBER CONTAINER FOR ARTILLERY, PA55	\$ 0.34	E21501	C	Order	IDIQ-FFP	2Q/FY22	No	No
FIBER CONTAINER FOR PGU-43B/44B, PA71/A	\$ 1.40	SOCOM	C	Order	IDIQ-FFP	2Q/FY22	No	No
FIN ASSEMBLY, M24	\$ 3.33	E69600/ E18403/ E18404	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
FIN ASSEMBLY, M27	\$ 0.68	E92900/ E92900	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
FIN ASSEMBLY, M28	\$ 0.17	E76100	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
FIN ASSEMBLY 60mm/81mm Producibility	\$ 1.50	E89600/ E76000	C	New	OTA-FFP	4Q/FY21	No	No
FIN ASSEMBLY, M31	\$ 5.88	E25503/ E91300/ E91400/ E25502/ E25507	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
FUZE MULTI-OPTION FUZE FOR MORTARS (MOFM), M734A1	\$ 16.90	E91300/ E91400/ E18403	US & Canada	Option	FFP	2Q/FY22	No	No
FUZE MACHINE TIME SUPER QUICK (MTSQ), M772/M776	\$ 4.70	E76100/ E25503	SS	Option	FFP	2Q/FY22	No	No
FUZE PD, M783	\$ 23.60	E92900/ E25502/ E18404	US & Canada	Option	FFP	2Q/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
FUZE M734A1/M783 FUZE TURBINE ALTERNATOR	\$ 4.20	E89600/ E76000/ E25500	C	New	OTA-FFP	4Q/FY21	No	No
FUZE PRACTICE, M751/M781/M755	\$ 4.47	E69600/ E92200/ E25507	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION CARTRIDGE, M1020	\$ 3.55	E25503/ E91300/ E91400/ E25502/ E25507	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION CARTRIDGE, M299	\$ 3.03	E69600/ E18404/ E18403	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION CARTRIDGE, M1020	\$ 3.55	E25503/ E91300/ E91400/ E25502/ E25507	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION CARTRIDGE, M299	\$ 3.03	E69600/ E18404/ E18403	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION CARTRIDGE, M702	\$ 1.48	E92200/ E92900	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION CARTRIDGE, M752A1	\$ 0.25	E76100	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
IGNITION PROPELLANT, MODULAR ARTLLERY CHARGE SYSTEM (MACS)	\$ 0.23	E27501/ ER8021	SS	Order	IDIQ-FFP	2Q/FY22	No	No
LONG-RANGE PRECISION GUIDANCE KIT	\$ 19.51	E99251	DOTC	Order	OTA-CPIF	2Q/FY22	No	No
M232A2 COMBUSTIBLE CASE	\$ 16.17	ER8021	SS	Order	IDIQ-FFP	2Q/FY22	No	No
MELTABLE FUZE PLUG	\$ 0.09	E21618/ E67802	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
METAL CONTAINER PA 154, 120MM MORTAR	\$ 0.86	E25503/ E91300	C	Order	IDIQ-FFP	2Q/FY22	No	No
METAL CONTAINER PA 157, 81MM MORTAR	\$ 0.21	E76100	C	Order	IDIQ-FFP	2Q/FY22	No	No
METAL PART, M1128	\$ 1.95	E67802	US & Canada	New	IDIQ-FFP	2Q/FY22	No	No
MODULAR ARTILLERY CHARGE SYSTEM M231/M232A2	\$ 17.76	E27502/ ER8021	SS	Order	IDIQ-FFP	2Q/FY22	No	No
PARACHUTE DROGUE ASSEMBLY & MAIN, 155MM ILLUM	\$ 0.42	E26900	SBSA	New	IDIQ-FFP	4Q/FY21	No	No
PARACHUTE, 60MM/81MM/120MM MORTARS	\$ 0.77	E25503/ E76100	SBSA	New	IDIQ-FFP	4Q/FY21	No	No
PBXN-12 BULK EXPLOSIVE	\$ 1.29	E92900/ E18404/ E18403	SS	Order	IDIQ-FFP	2Q/FY22	No	No
PRECISION GUIDANCE KIT (PGK)	\$ 66.98	E99250	SS	Option	FFP	2Q/FY22	No	No
PROJ BODY 155MM M825	\$ 7.52	E67800	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
PROJ, 155mm ARTY HE ROCKET-ASSISTED PROPELLANT (RAP), XM1113	\$ 37.39	E66501	SS	New	FPEPA	4Q/FY21	No	No
PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL	\$ 61.82	E80103	SS	Option	FFP	2Q/FY22	No	No
PROPELLANT CHARGE, M219	\$ 0.52	E76100	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
PROPELLANT CHARGE, M220	\$ 9.16	E69600/ E18404	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
PROPELLANT CHARGE, M234A1	\$ 12.49	E25503/ E91300/ E91400/ E25507/ E25502	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
PROPELLANT CHARGE, M235	\$ 4.52	E92900/ E92900	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
PROPELLANT CHARGE, M658	\$ 2.03	E18403	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
PROPELLANT CHARGE, M67	\$ 7.42	E21501/ SOCOM	US & Canada	New	IDIQ-FFP	4Q/FY21	No	No
PROPELLANT, M31A2	\$ 28.08	ER8021	US & Canada	Order	IDIQ-FFP	2Q/FY22	No	No
SHELL BODY FOR MORTARS	\$ 34.30	E92900/ E25507/ E91400/ E25502/ E25503/ E91300/ E92200/ E69600/ E18403/ E18404	C	Order	IDIQ-FFP	2Q/FY22	No	No
SUPPLEMENTAL CHARGE, FOR ARTILLERY	\$ 1.45	E67802/ E66800	C	Order	IDIQ-FFP	2Q/FY22	No	No
TAIL CONE, 81MM ILLUM	\$ 0.21	E76100	SBSA	Order	IDIQ-FFP	2Q/FY22	No	No
WOODEN PALLET, IMX FOR ARTILLERY	\$ 0.32	E26900/ E21618/ E67802	SS	Order	IDIQ-FFP	2Q/FY22	No	No
WOODEN PALLETS	\$ 1.88	E66800	SS	Order	IDIQ-FFP	2Q/FY22	No	No
EXTENDED RANGE CANNON ARTILLERY (ERCA) PROPULSION - COMBUSTIBLE CASE COMPONENTS	\$ 10.25	64802/BQ3	C	Order	OTA-FFP	2Q/FY22	No	No
ERCA PROPULSION - MAIN CHARGE PROPELLANTS	\$ 4.70	64802/BQ3	C	Order	OTA-CPFF	2Q/FY22	No	No
ERCA PROPULSION -LOAD, ASSEMBLE, & PACK	\$ 1.85	64802/BQ3	C	Order	OTA-CPFF	2Q/FY22	No	No
LONG RANGE PRECISION GUIDANCE KIT	\$ 29.00	64802/S36	SS	Order	OTA-CPFF	2Q/FY22	No	No
155MM HE ROCKET ASSIST PROJECTILE EXTENDED RANGE	\$ 19.49	64802/EU6	C	Order	OTA/DOTC	2Q/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Combat Ammunition Systems (PM CAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
CANNON DELIVERED AREA EFFECTS MUNITION - ARMOR DEVELOPMENT	\$ 67.00	64802/FJ4	C	Order	OTA-CPFF	2Q/FY22	No	No
MORTAR FIRE CONTROL SYSTEMS - M96AMPV	\$ 0.37	K99300	C	Order	IDIQ-FFP	1Q/FY22	No	No
MORTAR FIRE CONTROL SYSTEMS - MFCS- DISMOUNTED, M150	\$ 11.36	K99300	C	Order	IDIQ-FFP	1Q/FY22	No	No
MORTAR FIRE CONTROL SYSTEMS -MFCS FIRE DIRECTION COMPUTER (FDC) MOUNTED, M151	\$ 0.54	K99300	C	Order	IDIQ-FFP	1Q/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY21
Project Manager Close Combat Systems (PM CCS)**

Program/ Item/ Description	FY21							
	Planned FY21 Dollars (\$M) (FY21 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
M115A1 Ground Bursting Simulator/M116A2 Hand Grenade Simulator	\$ 4.62	E49700/ E50200		New	FFP	2Q/FY21	No	No
Modernized Demolition Initiators (MDI) Non Spool Based Products	\$ 7.40	E81306	C	New	FFP	3Q/FY21	No	No
M72 Light Anti-Armor Weapon (LAW)	\$ 44.40	E36400	SS	Order	IDIQ, FFP	4Q/FY21	No	No
Grenade Consolidation Contract (XM111, XM112, M67, M213 fuze, M228 fuze, M201A1 Fuze & M201A1 Mod 3 Fuze)	\$ 9.20	E32000, E31900, E34260, E35850, E32200, E34001, E34002, E69300, E34004	TBD	New	IDIQ, FFP	4Q/FY21	Yes	Yes
Army/Navy Portable Special Search (AN/PSS-14)	\$ 4.68	MA4502	SS	Order	IDIQ, FFP	2Q/FY21	No	No
Single Net Solution/Remote Deployment Device	\$ 7.80	M11206	LC	Order	IDIQ, FFP	3Q/FY20	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Close Combat Systems (PM CCS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Fee (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
XM919 Individual Assault Munition (IAM)	TBD		C	New	IDIQ, FFP	2Q/FY22	No	Yes
M039, 40 LB Cratering Charge	\$ 3.33	E51300	SBSA; US & Canada	New	IDIQ, FFP	4Q/FY21	No	No
M34/M35 Simulators	\$ 2.40	E88119 E88125	US & Canada	New	IDIQ, FFP	4Q/FY21	No	No
M456 Det Cord	\$ 2.00	E54100	C	New	IDIQ, FFP	4Q/FY21	No	No
Family of Sheet Explosives	\$ 9.70	E78201 E51400	C	New	IDIQ, FFP	4Q/FY21	No	No
M88 Volcano	\$ 3.40	E72194	C	New	IDIQ, FFP	4Q/FY21	No	No
M81 Igniter	\$ 2.55	E81307	SBSA	New	IDIQ, FFP	4Q/FY21	No	No
M18A1 Claymore	\$ 13.00	E39315	SBSA	New	IDIQ, FFP	4Q/FY21	No	No
Close Terrain Shaping Obstacle (CTSO) Top Attack Increment 1	TBD	E76740	C	New	OTA	4Q/FY21	No	Yes
XM343 Standoff Activated Volcano Obstacle (SAVO)	\$ 92.10	E76740	SS	New	IDIQ, FFP	4Q/FY21	No	No
M21 Non Electric Blasting Cap (MN88)	\$ 2.40	E99903	C	Order	IDIQ, FFP	2Q/FY22	No	No
MN79 APOBS	\$ 19.40	E72800	C	Order	IDIQ, FFP	3Q/FY22	No	No
M913 MICLIC	\$ 8.00	E75101	C	Order	IDIQ, FFP	2Q/FY22	No	No
M914 MICLIC Trainer	\$ 8.00	E75102	C	Order	IDIQ, FFP	2Q/FY22	No	No

JPEO Armaments & Ammunition

Business Opportunities for FY21

Project Manager Maneuver Ammunition Systems (PM MAS)

Program/ Item/ Description	FY21						
	Planned FY21 Dollars (\$M) (FY21 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N

- Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc.
- Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option
- Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); **and** Firm Fixed Price (FFP); Cost Plus Fixed Fee (CPFF); etc.
- Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable
- NOTE: DOTC = Department of Defense Ordnance Technology Consortium

Next Generation Squad Weapons (NGSW) Projectiles	\$ 6.00	E06001	SS	New	IDIQ/FFP	Q1/FY21	No	No
5.56mm Marking, M1042 (Blue)	\$ 6.33	E96110	SS	New	IDIQ/FFP	Q1/FY21	No	No
5.56mm Marking, M1042 (Red)	\$ 4.43	E96111	SS	New	IDIQ/FFP	Q1/FY21	No	No
5.56mm Marking Linked, M1071 (Blue)	\$ 1.16	E96120	SS	New	IDIQ/FFP	Q1/FY21	No	No
5.56m Marking Linked, M1071 (Red)	\$ 0.70	E96121	SS	New	IDIQ/FFP	Q1/FY21	No	No
5.56mm Dummy, Drilled, Inert	\$ 0.03	E00901	SS	Order	IDIQ/FFP	Q2/FY21	No	No
5.56mm M1037 Short-Range Training Ammunition (SRTA) Linked	\$ 0.94	E96126	SS	Order	IDIQ/FFP	Q3/FY21	No	No
5.56mm M1037 SRTA Clipped	\$ 3.35	E96125	SS	Order	IDIQ/FFP	Q3/FY21	No	No
5.56mm Frangible	\$ 16.00	E04610	SS	Order	IDIQ/FFP	Q4/FY21	No	No
7.62mm Dummy, Drilled, Inert	\$ 0.04	E02501	SS	Order	IDIQ/FFP	Q2/FY21	No	No
7.62mm SRTA M793/M974	\$ 2.31	E88600	SS	Order	IDIQ/FFP	Q3/FY21	No	No
7.62mm SRTA BALL M973 Linked	\$ 0.43	E75800	SS	Order	IDIQ/FFP	Q3/FY21	No	No
7.62mm Bottleneck Blank	\$ 0.10	E02015	SS	Order	IDIQ/FFP	Q4/FY21	No	No
.300 Normal Magnum	\$ 7.00	E03715	SBSA	New	IDIQ/FFP	Q3/FY21	No	No
.338 Norma Magnum	\$ 7.00	E03710	SBSA	New	IDIQ/FFP	Q3/FY21	No	No
9mm Marking M1041 (Blue)	\$ 0.69	E96105	C	New	IDIQ/FFP	Q1/FY21	No	No
9mm Marking M1041 (Red)	\$ 1.37	E96107	C	New	IDIQ/FFP	Q1/FY21	No	No
Modular Handgun Ammo	\$ 0.84	E05218	SS	Order	IDIQ/FFP	Q4/FY21	No	No
12 Gauge Shotshells	\$ 0.71	E00300	SS	Order	IDIQ/FFP	Q4/FY21	No	No
12 Gauge Breaching	\$ 0.74	E92100	SS	Option	FFP	Q4/FY21	No	No
Cartridge 20mm Armor-Piercing Discarding Sabot (APDS) MK244-0 Linked	\$ 22.20	N/A	LC	Order	IDIQ/FFP	Q2/FY21	No	No
Cartridge 20mm PGU 27A/B Target Practice Bulk Pack (TP BP)	\$ 24.60	F45000	LC	Order	IDIQ/FFP	Q2/FY21	No	No
Cartridge 20mm PGU 28	\$ 24.10	N/A	LC	Order	IDIQ/FFP	Q3/FY21	No	No
Cartridge 20mm PGU-30 A/B	\$ 2.50	F45100	LC	Order	IDIQ/FFP	Q3/FY21	No	No
Cartridge 30mm PGU-15 A/B	\$ 54.50	F52500	LC	Order	IDIQ/FFP	Q2/FY21	No	No
30mm PGU-13 Bulk Pack	\$ 20.80	N/A	LC	Order	IDIQ/FFP	Q3/FY21	No	No
Cartridge 30mm Multi-Function Munition (MFM)	\$ 6.10	N/A	C	Mod	OTA	Q3/FY21	No	No
Cartridge 30mm Target Practice - Tracer (TP-T) LKD MK239 (Navy)	\$ 8.50	E07107	TBD	Order	IDIQ/FFP	Q3/FY21	No	No
40mm Mixed Belt	\$ 135.00	E74315	SS	Option	FFP	Q4/FY21	No	No
Cartridge, Tank, 120mm Armor-Piercing, Fin Stabilized, Discarding Sabot-Tracer (APFSDS-T), M829A4	\$ 60.70	E88106	SS	New	FFP	Q1/FY21	Yes	No
Cartridge, Tank, 105mm Target Practice Discarding Sabot with Tracer (TPDST-T) M724A1	\$ 4.00	E22100	U.S. & Canada	New	IDIQ/FFP	Q1/FY21	No	No
Cartridge, Tank, 12mm Advanced Multi-Purpose (AMP)	\$ 27.10	E88105	SS	Mod	FFP	Q4/FY21	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Maneuver Ammunition Systems (PM MAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
Small Caliber Second Source	\$ 20.63	Various	SS	Option	FFP	Q2/FY22	No	No
Lake City Army Ammunition Plant (LCAAP)	\$ 233.50	Various	SS	Order	IDIQ/FFP	Q2/FY22	No	No
Next Generation Squad Weapons (NGSW) General Purpose (GP) Cartridge Projectiles	\$ 30.94	E06002	SS	Order	IDIQ/CPFF	Q1/FY22	No	No
NGSW RRA Projectiles	\$ 2.30	E06014	SS	Order	IDIQ/FFP	Q1/FY22	No	No
NGSW RRA Cartridge	\$ 2.30	E06014	LC	Mod	OTA	Q1/FY22	No	No
NGSW GP Cartridge	\$ 30.94	E06002	LC	Mod	OTA	Q1/FY22	No	No
NGSW Blank Cartridge	\$ 3.32	E60011	LC	Mod	OTA	Q1/FY22	No	No
NGSW Special Purpose (SP) Cartridge	\$ 1.64	E06016	LC	Mod	OTA	Q1/FY22	No	No
NGSW SP Cartridge Projectiles	\$ 1.64	E06016	SS	Order	IDIQ/FFP	Q1/FY22	No	No
5.56mm M1037 Short Range Training Ammunition (SRTA) Clipped	\$ 2.88	E96125	SS	Order	IDIQ/FFP	Q4/FY22	No	No
5.56mm Marking, M1042 (Blue)	\$ 6.39	E96110	SS	Order	IDIQ/FFP	Q4/FY22	No	No
5.56mm Marking, M1042 (Red)	\$ 4.13	E96111	SS	Order	IDIQ/FFP	Q4/FY22	No	No
5.56mm Marking Linked, M1071 (Blue)	\$ 0.54	E96120	SS	Order	IDIQ/FFP	Q4/FY22	No	No
5.56m Marking Linked, M1071 (Red)	\$ 0.80	E96121	SS	Order	IDIQ/FFP	Q4/FY22	No	No
5.56mm Frangible	\$ 16.89	E04610	C	New	IDIQ/FFP	Q1/FY22	No	No
7.62mm Dummy, Drilled, Inert	\$ 0.08	E02501	SS	Order	IDIQ/FFP	Q2/FY22	No	No
7.62mm SRTA M793/M974	\$ 2.63	E88600	SS	Order	IDIQ/FFP	Q4/FY22	No	No
7.62mm SRTA BALL M973 Linked	\$ 0.44	E75800	SS	Order	IDIQ/FFP	Q4/FY22	No	No
.300 Normal Magnum	\$ 4.73	E03715	C	New	IDIQ/FFP	Q3/FY22	Yes	No
.338 Norma Magnum	\$ 3.72	E03710	C	New	IDIQ/FFP	Q3/FY22	Yes	No
Modular Handgun/Pistol	\$ 13.85	E05218	C	New	IDIQ/FFP	Q4/FY22	No	No
9mm Marking M1041 (Blue)	\$ 0.42	E96105	SS	Order	IDIQ/FFP	Q4/FY22	No	No
9mm Marking M1041 (Red)	\$ 0.96	E96107	SS	Order	IDIQ/FFP	Q4/FY22	No	No
300 WinMag	\$ 0.13	E03701	SS	Order	IDIQ/FFP	Q2/FY22	No	No
12 Gauge Breaching	\$ 0.66	E92100	SS	Option	IDIQ/FFP	Q2/FY22	No	No
12 Gauge Shotshells	\$ 0.01	E00300	C	New	IDIQ/FFP	Q4/FY22	No	No
Cartridge 20mm Multi-Purpose Tracer-Self Destruct (MPT-SD) M940 W/MK7 Link	\$ 2.98	E08909	LC	Order	IDIQ/FFP	Q2/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Maneuver Ammunition Systems (PM MAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
Cartridge 20mm Armor-Piercing Discarding Sabot (APDS) MK244-0 Linked	\$ 20.13	N/A	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Cartridge 20mm PGU 27A/B Target Practice Bulk Pack (TP BP)	\$ 6.16	F45000	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Cartridge 20mm PGU-30 A/B	\$ 2.31	F45100	LC	Order	IDIQ/FFP	Q3/FY22	No	No
25mm Target Practice Discarding Sabot with Trace (TPDS-T) M910	\$ 5.37	E08204	LC	Order	IDIQ/FFP	Q2/FY22	No	No
Cartridge 30mm Target Practice (TP) M788	\$ 12.51	E10100	LC	Order	IDIQ/FFP	Dec/FY22	No	No
Cartridge 30mm High Explosive Dual Purpose (HEDP) M789	\$ 3.18	E09900	LC	Order	IDIQ/FFP	Dec/FY22	No	No
CTG, 30MM, XM950 TP	\$ 5.74	E10100	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Cartridge 30mm Stryker	\$ 1.12	N/A	SS	Mod	OTA	Q3/FY22	No	No
Cartridge 30mm Multi-Function Munition (MFM)	\$ 0.81	N/A	SS	Mod	OTA	Q3/FY22	No	No
30mm PGU-13 Bulk Pack	\$ 34.26	N/A	LC	Order	IDIQ/FFP	Q3/FY22	No	No
CTG 30MM URBAN MIX	\$ 6.00	N/A	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Cartridge 30mm PGU-15 A/B	\$ 31.94	F52500	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Cartridge 30mm TP-T LKD MK239 (Navy)	\$ 2.05	E07107	LC	Order	IDIQ/FFP	Q3/FY22	No	No
CTG 30MM PGU-13D / B LINKED	\$ 1.97	N/A	LC	Order	IDIQ/FFP	Q3/FY22	No	No
CTG, 30MM High-Explosive Dual Purpose - Self Destruction (HEDP-SD), XM1198	\$ 13.51	E09900	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Cartridge 40mm High Explosive Dual Purpose (HEDP) M430A1 F/MK19 MG	\$ 0.95	E11800	TBD	New	FFP	Q1/FY22	No	No
CTG, 40mm HEDP, M433E1 f/M203	\$ 3.70	E12601	TBD	New	FFP	Q1/FY22	No	No
40mm TP DNT, Low Velocity (LV) M781E1	\$ 7.08	E05610	SS	Option	FFP	Q2/FY22	No	No
40mm High Explosive Airburst (HEAB)	\$ 2.00	N/A	SS	Mod	OTA	Q3/FY22	No	No
50mm AB	\$ 19.24	N/A	SS	Mod	OTA	Q3/FY22	No	No
50mm TP	\$ 4.38	N/A	SS	Mod	OTA	Q3/FY22	No	No
50mm AP	\$ 5.65	N/A	SS	Mod	OTA	Q3/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Manager Maneuver Ammunition Systems (PM MAS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number or Foreign Military Sales (FMS) 								
Cartridge, Tank, 120mm Target Practice, Cone Stabilized, Discarding Sabot with Tracer (TPCSDS-T) M865	\$ 56.90	E73400	U.S. & Canada	New	FFP	Q4/FY22	No	No
Cartridge, Tank, 120mm Target Practice Multi-Purpose with Tracer (TPMP-T) M1002	\$ 54.00	E73201	U.S. & Canada	New	FFP	Q4/FY22	No	No
Cartridge, Tank, 120mm APFSDS-T, M829A4	\$ 62.90	E88106	SS	Option	FFP	Q3/FY22	No	No
Cartridge, Tank, 12mm Advanced Multi-Purpose (AMP)	\$ 20.40	E88105	SS	Option	FFP	Q3/FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY21
Project Director Joint Services (PD JS)**

Program/ Item/ Description	FY21							
	Planned FY21 Dollars (\$M) (FY21 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
Conventional Ammo Demilitarization, (CAD) 2021 First Awards	\$ 19.45	EP1800	C	New	IDIQ/FFP	Q1/FY21	Yes	Yes
Conventional Ammo Demilitarization, CAD 2021 Second Awards	\$ 54.30	EP1800	C	New	IDIQ/FFP	Q1/FY21	Yes	Yes
Holston Army Ammunition Plant Flashing Furnace (Construct)	\$ 45.78	EP1200	C	Mod	FFP	Q1/FY21	No	No
Holston Army Ammunition Plant (AAA) Plus Tank Farm Build (Area B Third Acid Train)	\$ 70.00	EP1200	C	Mod	FFP	Q1/FY21	No	No
Holston Army Ammunition Plant New Kettle Drying Facility Final Design-Build	\$ 40.00	EP1200	C	Mod	FFP	Q2/FY21	No	No
Iowa Army Ammunition Plant Design & Construct New Metrology Lab	\$ 5.40	EP1200	C	Order	CPFF	Q2/FY21	No	No
Scranton Army Ammunition Plant XM 1113 Production Line Phase 1	\$ 5.90	EP1200	C	Order	FFP	Q3/FY21	No	No
Holston Army Ammunition Plant New Nitration Facility Build	\$ 92.00	EP1200	C	Mod	FFP	Q3/FY21	No	No
Holston Army Ammunition Plant N8 Cleanup Rebuild	\$ 16.90	EP1200	C	Mod	FFP	Q3/FY21	No	No
Iowa Army Ammunition Plant Pre-Design (Charrette) Tank Line 15%	\$ 5.00	EP1200	C	Order	CPFF	Q3/FY21	No	No
Ammunition Industrial Base Engineering Support Services	\$ 19.40	EP1200	C	New	IDIQ/FFP	Q3/FY21	No	No
Lake City Army Ammunition Plant B1 Priming and Loading HVAC Replacement (Construct)	\$ 22.30	EP1200	C	Order	FFP	Q4/FY21	No	No
Lake City Army Ammunition Plant Roof and Structural Repairs B35	\$ 8.50	EP1200	C	Order	FFP	Q4/FY21	No	No
Lake City Army Ammunition Plant Cyber Security	\$ 6.70	EP1200	C	Order	FFP	Q4/FY21	No	No
Life Cycle Pilot Process (Army Ammunition Research and Development Projects)- Net Zero	\$ 5.60	665805859	C	New	FFP	TBD	No	No
Radford Army Ammunition Plant Provision of Industrial Facilities Safety and Environmental	\$ 27.30	EP1200	C	Order	FFP	TBD	No	No
Lake City Army Ammunition Plant Contaminated Waste Plant Design United States Army Corps of Engineers (USACE)	\$ 6.50	EP1200	C	Order	FFP	TBD	No	No
Lake City Army Ammunition Plant Industrial Waste Treatment Plant Lagoon Liners & Filter Press (USACE)	\$ 14.00	EP1200	C	Order	FFP	TBD	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Director Joint Services (PD JS)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
DU Projectile Demil (Year 1 of 5)	\$ 31.00	EP1800	C	New	IDIQ/FFP	Q4/FY22	No	No
Navy Projectile 16 inch Demilitarization (Year 3 of 3)	\$ 6.24	EP1801	C	Order	IDIQ/FFP	Q2/FY22	No	No
Conventional Ammo Demilitarization, CAD 2021 (Year 2 of 5) Cluster Munitions	\$ 5.14	EP1800	LC	Order	IDIQ/FFP	Q3/FY22	No	No
Armament Retooling and Manufacturing Support (ARMS)	\$ 3.18	EP2500	C	Mod	FFP	Various*/ FY22	No	No
Scranton Army Ammunition Plant Property Management (Facility Plan/Modernization)	\$ 30.20	EP1200	C	Mod	FFP	Various*/ FY22	No	No
Layaway of Industrial Facilities (Army Ammunition Plant Projects)	\$ 10.04	EP2000	C	Mod	FFP	Various*/ FY22	No	No
Maintenance of Inactive Facilities (Army Ammunition Plant Projects)	\$ 5.11	EP1500	C	Mod	FFP	Various*/ FY22	No	No
Radford Army Ammunition Plant Provision of Industrial Facilities	\$ 113.63	EP1200	C	Order	FFP	Various*/ FY22	No	No
Lake City Army Ammunition Plant Provision of Industrial Facilities	\$ 69.00	EP1200	C	Order	FFP	Various*/ FY22	No	No
Holston Army Ammunition Plant Provision of Industrial Facilities	\$ 215.00	EP1200	C	Mod	FFP	Various*/ FY22	No	No
Iowa Army Ammunition Plant Provision of Industrial Facilities	\$ 14.10	EP1200	C	Order	CPFF	Various*/ FY22	No	No
Army Ammunition Plant Provision of Industrial Facilities	\$ 80.89	EP1200	C	Order	FFP	Various*/ FY22	No	No
Life Cycle Pilot Process (Army Ammunition Research and Development Projects)	\$ 3.40	665805859	C	Order	Various	Various*/ FY22	No	No

**JPEO Armaments & Ammunition
Business Opportunities for FY21
Project Director Joint Bombs (PD JB)**

Program/ Item/ Description	FY21						
	Planned FY21 Dollars (\$M) (FY21 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 							
Nose Plug/ Support Cup for GP Bombs							
MK4-3 Hot Signal Cartridges for Small Practice Bombs							

**JPEO Armaments & Ammunition
Business Opportunities for FY22
Project Director Joint Bombs (PD JB)**

Program/ Item/ Description	FY22							
	Planned FY22 Dollars (\$M) (FY22 Pres Budget Request) / SSN	Planned Strategy	Contract Action	Contract Type	Anticipated Final RFP Release Date (Qtr/FY)	Draft RFP Y/N	Industry Day Y/N	
<ul style="list-style-type: none"> • Planned Strategy: Competitive (C); Limited Competition (LC); Small Business Set-Aside (SBSA); Sole Source (SS); United States and Canada only (US & Canada); etc. • Contract Action: New Contract (New); Delivery/Task Order (Order); Modification (Mod); Option • Contract Type: Includes Indefinite Delivery/Indefinite Quantity (IDIQ), Other Transaction Authority (OTA); and Firm Fixed Price (FFP); Cost Plus Fixed Free (CPFF); etc. • Standard Study Number (SSN): Includes either the corresponding number, Foreign Military Sales (FMS), and/or Other Service [e.g. U.S. Marine Corps (USMC), Air Force Special Operations Command (AFSOC), Special Operations Command (SOCOM)], as applicable • NOTE: DOTC = Department of Defense Ordnance Technology Consortium 								
CXU-3 Signal Cartridges for Small Practice Bombs	\$ 6.3	N/A	SBSA	New	IDIQ	Q1/FY22	No	No

Appendix B



COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER

OVERVIEW

The CCDC Armaments Center is the “Center of Mass” for Armament Systems and Munitions for Joint Services with more than 3,200 civilian engineers, scientists and support personnel. Our organization is one of the specialized research, development, and engineering centers within the U.S. Army Combat Capabilities Development Command or CCDC. The CCDC Armaments Center’s workforce provides technology for over 90 percent of the Army’s lethality with a focus on advanced weapons, ammunition, and fire control systems used every day by the U.S. warfighter.

OBJECTIVES

A strategic objective of the CCDC Armaments Center is to establish and leverage partnerships with industry, academic institutions, and other government organizations that support our mission

for the warfighter, as well as national goals of transferring the results of Federal R&D investment to the industrial base. We have more than 120 active Cooperative Research and Development Agreements (CRADAs), most with defense suppliers. We also excel in Software and Sustainment Engineering. The CCDC Armaments Center has maintained CMMI Level 5 certification continuously for over a decade providing optimized software architecture for Armaments Systems. We have found CRADAs and other alternatives to traditional Federal Acquisition Regulation contracts to be valuable tools for accelerating the transition of technology innovation at all stages of the Defense Acquisition Life Cycle. The CCDC Armaments Center has more than 64 laboratory and testing facilities available for industry use, as well as the authority to sell certain testing and engineering services.



COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER

FOCUS AREAS

- Lethality
- Integrated, Multi-Mission Armament Systems
- Smart Sights
- Pyrotechnics
- Battlefield Digitization & Software
- Precision Armaments
- Environmental Technologies
- Networked Lethality
- Defense Against Unmanned Systems
- Counter Terrorism Technologies
- Homeland Defense Technologies

- Advanced Materials / Nanotechnologies
- Novel Power & Energy Systems for Weapons & Munitions
- Armaments Manufacturing Science Technologies
- Reliability & Predictability Technology
- Modeling & Simulation of Armament Systems
- Integrated Armaments Systems
- Advanced Energetics & Warheads
- Autonomous Systems
- Armament Software & Sustainment Engineering Technologies
- Ammo Logistics System Technologies

MODERNIZATION PRIORITIES ALIGNMENT

- Long Range Precision Fires:
 - Extended Range Cannon Artillery
 - Extended Range Artillery Munitions Suites
 - Affordable Precision Technologies
 - Precision at Range Technologies
- Next Generation Combat Vehicle:
 - Advance Lethality and Accuracy System for Medium Caliber
 - Extended Line of Sight
- Soldier Lethality:
 - Next Generation Squad Weapon Technologies and Ammunition
 - Next Generation Carbine Technologies
 - Fire Control Technologies

- Future Vertical Lift:
 - Advanced Rotorcraft Armaments Protection System
- Air and Missile Defense:
 - Accurate Rapid Controlled Hyper Engagement Round



FOR FURTHER INFORMATION:

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